11-06-2015 LETTING ITEM 053

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94 *	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76B50		

* 94 + 1 = 95 TOTAL SHEETS

D-98-105-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

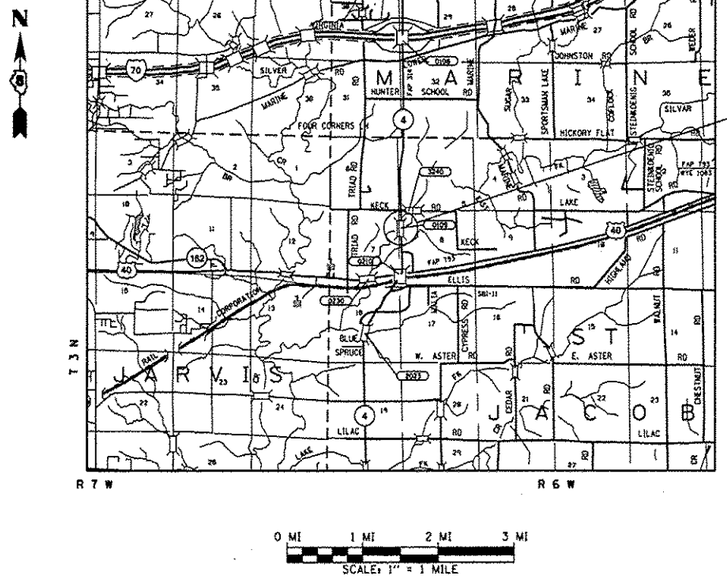
FAP ROUTE 314 (IL 4)
SECTION 110BR-1
PROJECT ACNHPP-0314 (009)
STRUCTURE REPLACEMENT
OVER EAST FORK OF SILVER CREEK
MADISON COUNTY

C-98-014-08

LOCATION OF SECTION INDICATED THUS: —

TRAFFIC DATA

2013 ADT = 6750 (ACTUAL)
2015 ADT = 6900 (ESTIMATED)
2035 ADT = 8500 (ESTIMATED)
SU = 4.8%
MU = 13.3%



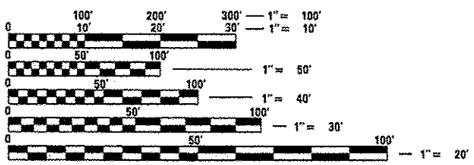
PROPOSED 3 SPAN 36" WEB ℄ GIRDER
BRIDGE OVER EAST FORK OF SILVER CREEK
242'-0" BACK TO BACK ABUTS, 0° SKEW
STA 756+18
SN 060-0109 (E), SN 060-0344 (P)
BEGIN STA 752+40
END STA 760+65

0 MI 1 MI 2 MI 3 MI
SCALE: 1" = 1 MILE

DESIGN DESIGNATION
N/A

GROSS LENGTH = 0.046 MI
NET LENGTH = 0.046 MI

LATITUDE 38.72519
LONGITUDE -89.80113



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug 14 20 15
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
Oct 5 20 15
John D. Baranzelli, P.E. /for
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 2 20 15
Omer Osman, P.E. /for
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

SQUAD LEADER: BILLIE OWEN (618) 346-3209
DESIGNER: ROB HARBAUGH (618) 346-3195

CONTRACT NO. 76B50

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

INDEX OF SHEETS

- INCLUDES 59A

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
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
701006-05	OFF-ROAD OPERATIONS, 2L 2W, 15' TO 24" FROM PAVEMENT EDGE
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
701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≧ 45 MPH
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

1. CONSTRUCTION EQUIPMENT GREATER THAN 42 FEET IN HEIGHT BREACHES THE ST. LOUIS METRO-EAST AIRPORT NOTIFICATION SURFACE. IF EQUIPMENT GREATER THAN 42 FEET IN HEIGHT IS REQUIRED FOR CONSTRUCTION, THE DIVISION OF AERONAUTICS MUST BE CONTACTED PRIOR TO USING EQUIPMENT SO THAT PROPER FILING WITH THE FAA CAN BE COMPLETED.

   CONTACT INFO:
   ROBERT HAHN
   IDOT - DIVISION OF AERONAUTICS
   1 LANGHORNE BOND DRIVE
   SPRINGFIELD, IL 62707
   ROBERT.HAHN@ILLINOIS.GOV
   (217) 524-1580

2. TREE REMOVAL WILL NOT OCCUR FROM APRIL 1st THROUGH SEPTEMBER 30th OF ANY YEAR DUE TO THE PRESENCE OF THE INDIANA BAT AND THE NORTHERN LONG-EARED BAT.

3. IF CONSTRUCTION ACTIVITY IS PLANNED DURING THE INDIANA BAT AND NORTHERN LONG-EARED BAT ACTIVITY SEASON – FROM APRIL 1ST THROUGH SEPTEMBER 30TH – PERFORM A FINAL INSPECTION OF THE BRIDGE NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY TO ENSURE THAT THE BATS HAVE NOT STARTED TO USE THE AREA OF THE BRIDGE PROPOSED FOR WORK AFTER THE ORIGINAL INSPECTION.

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

   - AMEREN IL (ELECTRIC)
   - AT&T CORP (FIBEROPTIC)
   - CHARTER COMMUNICATIONS (CTV)
   - HOME TELEPHONE CO (COMMUNICATIONS)
   - BOND MADISON WATER CO (WATER)
   - SOUTHWESTERN ELECTRIC COOP (ELECTRIC)
   - VILLAGE OF ST. JACOB (WATER)

   MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY •. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

4. THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

5. A QUANTITY OF 1200 FEET OF "TEMPORARY PAVEMENT MARKING - LINE 6 INCH" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.

6. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

7. RIGHT-OF-WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE (12") INCHES INSIDE THE RIGHT-OF-WAY BOUNDARY. RIGHT-OF-WAY CORNERS ARE MARKED BY A 5/8" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT-OF-WAY MARKERS.

8. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

9. ANY FENCE LOCATED WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF THE ASSOCIATED EARTHWORK PAY ITEMS.

10. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

11. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

12. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE.

13. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.

14. HOT-MIX ASPHALT SHOULDERS SHALL BE CONSTRUCTED CONCURRENT WITH ROADWAY DURING STAGE I AND STAGE II CONSTRUCTION. DUE TO REQUIRED STAGE I TRAFFIC WIDTH AND SIGNIFICANT GRADE RAISE, ROADWAY AND HOT-MIX ASPHALT SHALL BOTH BE CONSTRUCTED WITH HOT-MIX ASPHALT BINDER MIX. AFTER STAGE CONSTRUCTION IS COMPLETE, HOT-MIX ASPHALT SHOULDERS SHALL BE OVERLAYED WITH 1 1/2" HOT-MIX ASPHALT SHOULDER MIX.

15. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.

16. ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".

17. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

18. OVERNIGHT DROP-OFFS WILL NOT BE PERMITTED NEXT TO AN OPEN LANE OF TRAFFIC.

REV.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\E0165DRAWData\GAOsheets\0876050-sht-gen notes.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	1108R-1	MADISON	94	2
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FED 20% STATE BRIDGE 0011 060-0344
20100500	TREE REMOVAL, ACRES	ACRE	0.75	0.75
20200100	EARTH EXCAVATION	CU YD	3435	3435
20200500	EARTH EXCAVATION (WIDENING)	CU YD	205	205
20300100	CHANNEL EXCAVATION	CU YD	2493	2493
20400800	FURNISHED EXCAVATION	CU YD	3005	3005
25000200	SEEDING, CLASS 2	ACRE	2	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	198	198
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	198	198
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	198	198
25100115	MULCH, METHOD 2	ACRE	6	6
25100630	EROSION CONTROL BLANKET	SQ YD	2421	2421
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	600	600
28000305	TEMPORARY DITCH CHECKS	FOOT	218	218
28000400	PERIMETER EROSION BARRIER	FOOT	1102	1102

FILE NAME = pw:\\IL884EGIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI\SBR\76850\Data\CADsheets\D876050-sht-SQQ.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	3
		CONTRACT NO. 76850		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FED 20% STATE BRIDGE 0011 060-0344
28100109	STONE RIPRAP, CLASS A5	SQ YD	2912	2912
28200200	FILTER FABRIC	SQ YD	2912	2912
35501329	HOT-MIX ASPHALT BASE COURSE, 11 1/4"	SQ YD	723	723
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	964	964
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	791	791
40600990	TEMPORARY RAMP	SQ YD	143	143
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	585	585
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	144	144
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	56	56
44000100	PAVEMENT REMOVAL	SQ YD	801	801
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	201	201
48203100	HOT-MIX ASPHALT SHOULDERS	TON	58	58
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	128	128

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED\05DRAWData\DADsheets\D876B50-sht-SOQ.dgn	USER NAME = herbaughrd	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	DATE -	REVISED -
	PLOT DATE = 8/14/2015		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	4
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FED 20% STATE BRIDGE 0011 060-0344
50200300	COFFERDAM EXCAVATION	CU YD	85	85
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1	1
50300100	FLOOR DRAINS	EACH	8	8
50300225	CONCRETE STRUCTURES	CU YD	191.2	191.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	482.6	482.6
50300260	BRIDGE DECK GROOVING	SQ YD	1275	1275
50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2
50300300	PROTECTIVE COAT	SQ YD	1572	1572
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	4734	4734
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	135360	135360
50800515	BAR SPLICERS	EACH	1129	1129
51201610	FURNISHING STEEL PILES HP12X63	FOOT	1080	1080
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1260	1260

FILE NAME =	USER NAME = herbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:P:\IDOT\Documents\IDOT Offices\District 8\Projects\EDI\SDP\CADD\Data\GAD sheets\D076850-sht-SQD.dgn			REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	5
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FED 20% STATE BRIDGE 0011 060-0344
	51202305	DRIVING PILES	FOOT	2340	2340
	51203900	TEST PILE STEEL HP14X89	EACH	2	2
	51500100	NAME PLATES	EACH	1	1
	52100520	ANCHOR BOLTS, 1"	EACH	48	48
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	86	86
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	512.5	512.5
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
*	63200310	GUARDRAIL REMOVAL	FOOT	882	882
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	15	15
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14
	67100100	MOBILIZATION	LSUM	1	1
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1

14

* SPECIALTY ITEM

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI6SDRIVE\Data\CADsheets\D076850-sht-500.dgn	USER NAME = herboughrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					314	110BR-1	MADISON	94	6
	PLOT DATE = 8/14/2015	DATE -	REVISED -		SCALE: N/A	SHEET NO. 4 OF 6 SHEETS	STA. TO STA.			CONTRACT NO. 76850		
								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

				CONSTR. CODE 80 % FED 20 % STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0011 060-0344
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70300100	SHORT TERM PAVEMENT MARKING	FOOT	372	372
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3004	3004
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1200	1200
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1126	1126
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600	600
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2320	2320
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	684	684
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4

* SPECIALTY ITEM

FILE NAME = pw:\\IL884EBIOINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDWARDSVILLE\Date\CADsheets\D876050-sht-SUM.dgn	USER NAME = herbaughrd	DESIGNED -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	7
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FED 20% STATE BRIDGE 0011 060-0344
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	6	6
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1002	1002
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	172	172
	X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1
	X7200200	WIDE LOAD SIGNING	LSUM	1	1
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	88	88
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
	Z0026407	TEMPORARY SHEET PILING	SQ FT	266	266
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	159	159
	Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	3	3
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	410	410

15

* SPECIALTY ITEM

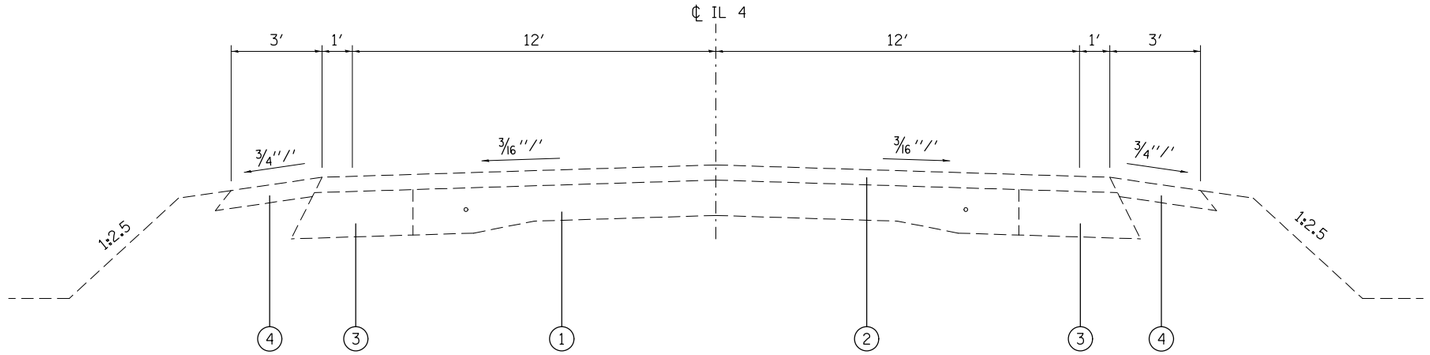
FILE NAME = pw:\\IL004EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EC045\Working Data\CADsheets\D0765850-sht-SQQ.dgn	USER NAME = herbaughrd	DESIGNED -	REVISED -
			REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

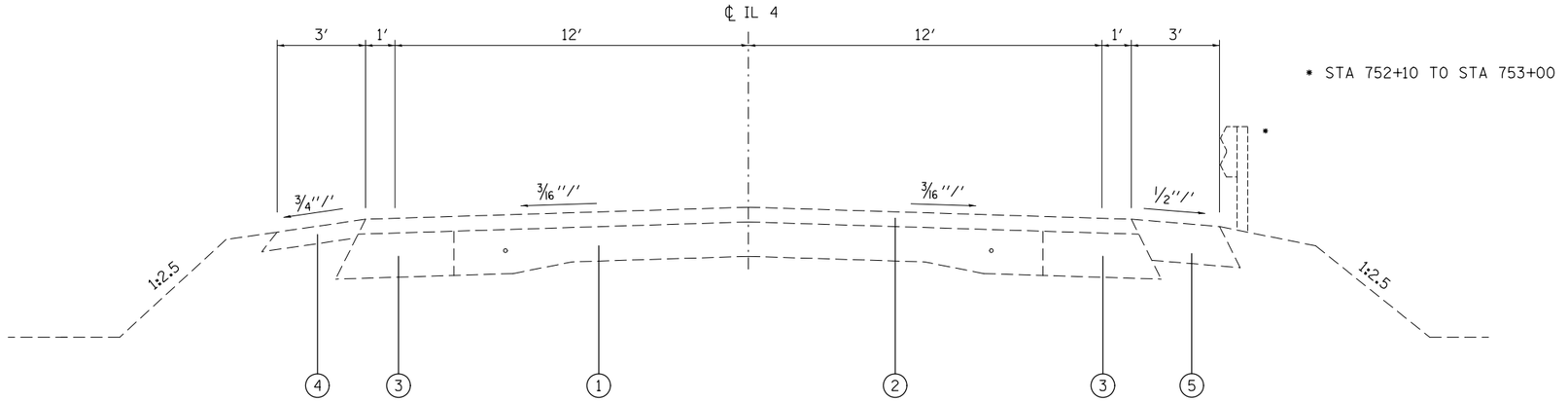
SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	8
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

STA 751+40 TO STA 752+00
STA 760+00 TO STA 761+00



EXISTING TYPICAL SECTION

STA 752+00 TO STA 753+00

LEGEND

1. EXISTING PCC PAVEMENT - 9″-6″-9″
2. EXISTING BITUMINOUS OVERLAY, 3″
3. EXISTING BITUMINOUS BASE COURSE WIDENING, 9″
4. EXISTING AGGREGATE SHOULDERS
5. EXISTING BITUMINOUS BASE COURSE WIDENING SUPERPAVE - 8″
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIES 2 1/4″ TO 19 1/8″
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2″
8. PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2″
9. PROPOSED AGGREGATE SHOULDERS, 6″
10. PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
11. PROPOSED HOT-MIX ASPHALT BASE COURSE, 11 1/4″
12. PROPOSED EARTHWORK

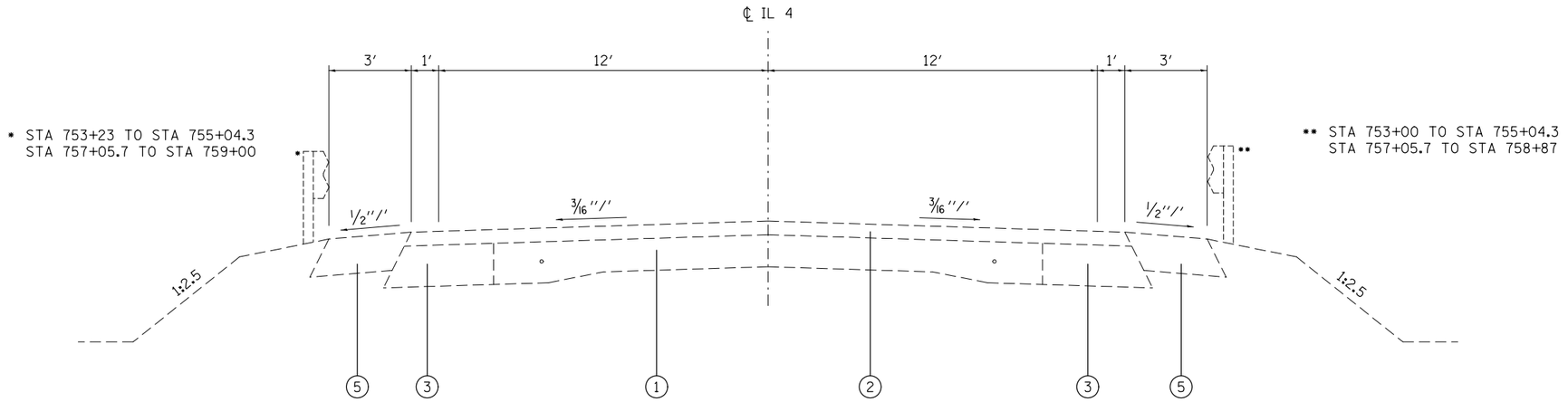
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIMSDrawingData\GADsheets\D876B50-sht-typical.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

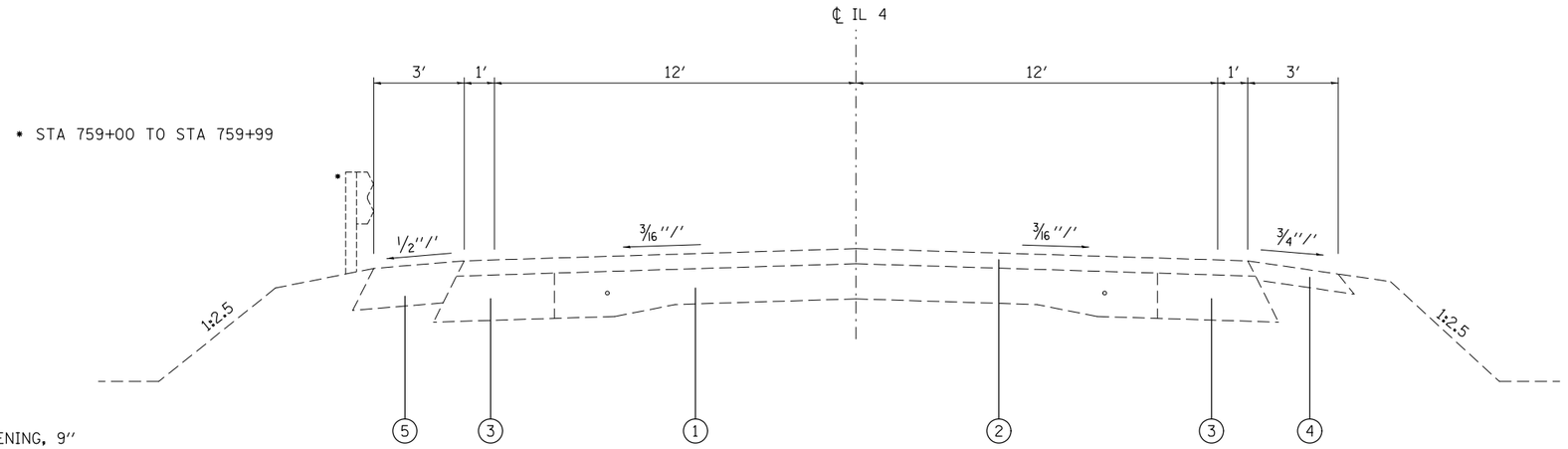
SCALE: N/A | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	9
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

STA 753+00 TO STA 755+04.3
STA 757+05.7 TO STA 759+00



EXISTING TYPICAL SECTION

STA 759+00 TO STA 760+00

LEGEND

1. EXISTING PCC PAVEMENT - 9″-6″-9″
2. EXISTING BITUMINOUS OVERLAY, 3″
3. EXISTING BITUMINOUS BASE COURSE WIDENING, 9″
4. EXISTING AGGREGATE SHOULDERS
5. EXISTING BITUMINOUS BASE COURSE WIDENING SUPERPAVE - 8″
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIES 2 1/4″ TO 19 1/8″
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2″
8. PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2″
9. PROPOSED AGGREGATE SHOULDERS, 6″
10. PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
11. PROPOSED HOT-MIX ASPHALT BASE COURSE, 11 1/4″
12. PROPOSED EARTHWORK

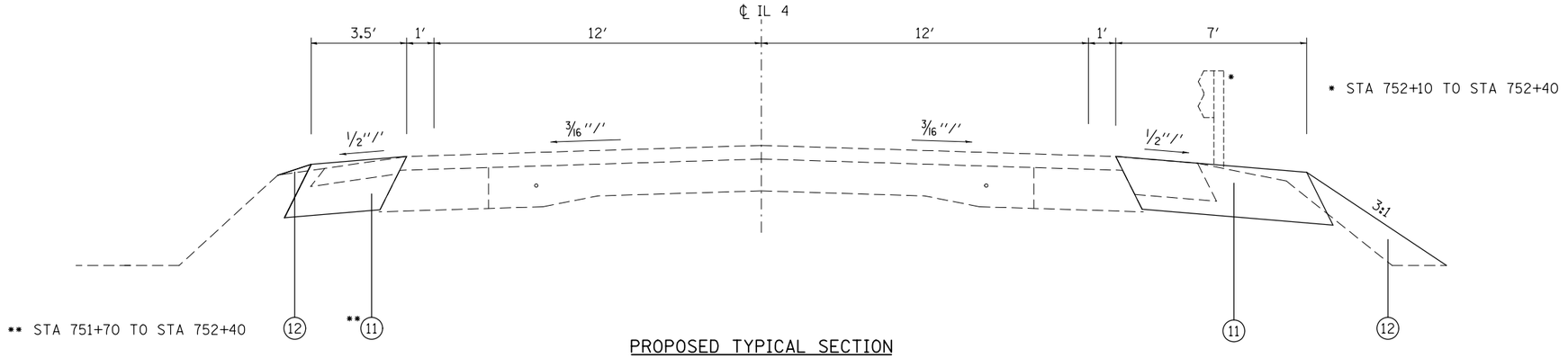
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS\DRAWNData\GADsheets\D876B50-sht-typical.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

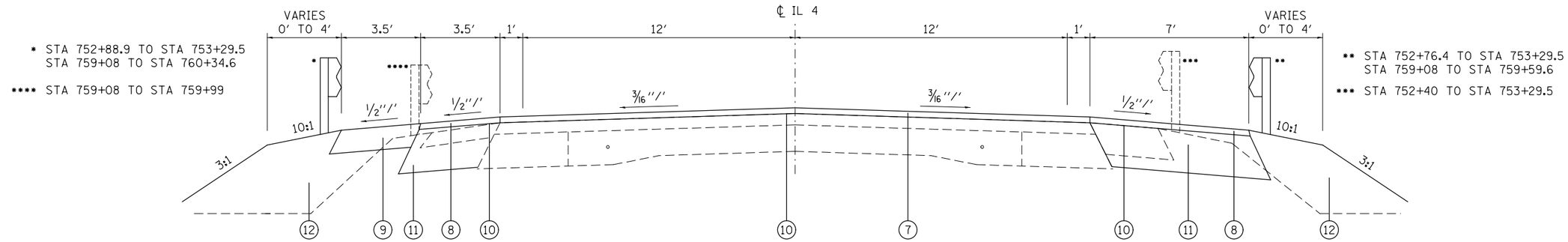
SCALE: N/A | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	10
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

STA 751+40 TO STA 752+40
STA 760+70 TO STA 761+00



LEGEND

1. EXISTING PCC PAVEMENT - 9″-6″-9″
2. EXISTING BITUMINOUS OVERLAY, 3″
3. EXISTING BITUMINOUS BASE COURSE WIDENING, 9″
4. EXISTING AGGREGATE SHOULDERS
5. EXISTING BITUMINOUS BASE COURSE WIDENING SUPERPAVE - 8″
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIES 2 1/4″ TO 19 1/8″
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2″
8. PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2″
9. PROPOSED AGGREGATE SHOULDERS, 6″
10. PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
11. PROPOSED HOT-MIX ASPHALT BASE COURSE, 11 1/4″
12. PROPOSED EARTHWORK

PROPOSED TYPICAL SECTION

STA 752+40 TO STA 753+29.5
STA 759+08 TO STA 760+70

MIXTURE REQUIREMENTS

MIXTURE USE	BASE COURSE	BINDER COURSE	SURFACE COURSE	SHOULDERS ≥ 2.25″	SHOULDERS < 2.25″
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION)	IL 19.0	IL 19.0	IL 9.5	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE ″B″	MIXTURE ″B″	MIXTURE ″D″		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112LB/SQ YD/IN.

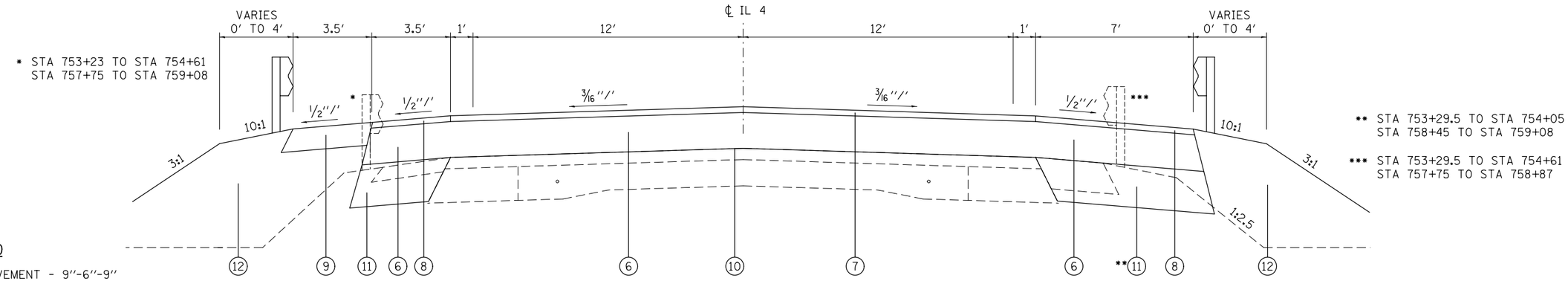
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS Data\GADsheets\D876B50-sht-typical.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N/A | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	11
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

1. EXISTING PCC PAVEMENT - 9"-6"-9"
2. EXISTING BITUMINOUS OVERLAY, 3"
3. EXISTING BITUMINOUS BASE COURSE WIDENING, 9"
4. EXISTING AGGREGATE SHOULDERS
5. EXISTING BITUMINOUS BASE COURSE WIDENING SUPERPAVE - 8"
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIES 2 1/4" TO 19 1/8"
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
8. PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
9. PROPOSED AGGREGATE SHOULDERS, 6"
10. PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
11. PROPOSED HOT-MIX ASPHALT BASE COURSE, 11 1/4"
12. PROPOSED EARTHWORK

PROPOSED TYPICAL SECTION

STA 753+29.5 TO STA 754+61
STA 757+75 TO STA 759+08

PROPOSED HMA BINDER COURSE AND SURFACE COURSE THICKNESS

STATION	℄ ELEVATION EXISTING	℄ ELEVATION PROPOSED	PR HMA BIND CSE (INCHES)	PR HMA SURF CSE (INCHES)	STATION	℄ ELEVATION EXISTING	℄ ELEVATION PROPOSED	PR HMA BIND CSE (INCHES)	PR HMA SURF CSE (INCHES)	STATION	℄ ELEVATION EXISTING	℄ ELEVATION PROPOSED	PR HMA BIND CSE (INCHES)	PR HMA SURF CSE (INCHES)	STATION	℄ ELEVATION EXISTING	℄ ELEVATION PROPOSED	PR HMA BIND CSE (INCHES)	PR HMA SURF CSE (INCHES)
752+40	462.39	462.42	-	1 1/2	753+70	462.47	463.07	5 5/8	1 1/2	758+10	462.69	463.99	14 1/8	1 1/2	759+40	462.63	462.77	-	1 5/8
752+45	462.39	462.42	-	1 1/2	753+75	462.48	463.12	6 1/8	1 1/2	758+15	462.68	463.92	13 3/8	1 1/2	759+45	462.63	462.74	-	1 1/2
752+50	462.40	462.42	-	1 1/2	753+80	462.50	463.17	6 1/2	1 1/2	758+20	462.68	463.85	12 5/8	1 1/2	759+50	462.63	462.72	-	1 1/2
752+55	462.40	462.42	-	1 1/2	753+85	462.52	463.23	7	1 1/2	758+25	462.67	463.79	11 7/8	1 1/2	759+55	462.63	462.71	-	1 1/2
752+60	462.40	462.43	-	1 1/2	753+90	462.54	463.29	7 1/2	1 1/2	758+30	462.67	463.72	11 1/4	1 1/2	759+60	462.63	462.69	-	1 1/2
752+65	462.41	462.44	-	1 1/2	753+95	462.56	463.35	8	1 1/2	758+35	462.66	463.66	10 1/2	1 1/2	759+65	462.63	462.67	-	1 1/2
752+70	462.41	462.45	-	1 1/2	754+00	462.57	463.41	8 1/2	1 1/2	758+40	462.65	463.60	9 7/8	1 1/2	759+70	462.63	462.66	-	1 1/2
752+75	462.42	462.46	-	1 1/2	754+05	462.58	463.47	9 1/8	1 1/2	758+45	462.65	463.54	9 1/4	1 1/2	759+75	462.63	462.65	-	1 1/2
752+80	462.42	462.47	-	1 1/2	754+10	462.59	463.54	9 7/8	1 1/2	758+50	462.64	463.48	8 5/8	1 1/2	759+80	462.63	462.64	-	1 1/2
752+85	462.42	462.49	-	1 1/2	754+15	462.61	463.61	10 1/2	1 1/2	758+55	462.63	463.43	8	1 1/2	759+85	462.63	462.63	-	1 1/2
752+90	462.43	462.51	-	1 1/2	754+20	462.62	463.68	11 1/4	1 1/2	758+60	462.63	463.37	7 1/2	1 1/2	759+90	462.63	462.63	-	1 1/2
752+95	462.43	462.53	-	1 1/2	754+25	462.63	463.75	12	1 1/2	758+65	462.63	463.32	6 7/8	1 1/2	759+95	462.63	462.62	-	1 1/2
753+00	462.42	462.55	-	1 1/2	754+30	462.64	463.83	12 3/4	1 1/2	758+70	462.63	463.27	6 1/4	1 1/2	760+00	462.62	462.62	-	1 1/2
753+05	462.42	462.57	-	1 3/4	754+35	462.65	463.90	13 1/2	1 1/2	758+75	462.63	463.22	5 5/8	1 1/2	760+05	462.62	462.62	-	1 1/2
753+10	462.42	462.60	-	2 1/8	754+40	462.66	463.97	14 1/4	1 1/2	758+80	462.63	463.18	5	1 1/2	760+10	462.62	462.62	-	1 1/2
753+15	462.41	462.62	-	2 1/2	754+45	462.67	464.04	15	1 1/2	758+85	462.63	463.13	4 1/2	1 1/2	760+15	462.62	462.62	-	1 1/2
753+20	462.41	462.65	-	3	754+50	462.68	464.11	15 3/4	1 1/2	758+90	462.63	463.09	4	1 1/2	760+20	462.62	462.62	-	1 1/2
753+25	462.41	462.69	-	3 3/8	754+55	462.68	464.18	16 1/2	1 1/2	758+95	462.63	463.05	3 1/2	1 1/2	760+25	462.62	462.62	-	1 1/2
753+30	462.40	462.72	2 3/8	1 1/2	754+61	462.68	464.26	19	1 1/2	759+00	462.64	463.01	3	1 1/2	760+30	462.62	462.62	-	1 1/2
753+35	462.40	462.76	2 3/4	1 1/2	757+75	462.73	464.44	19 1/8	1 1/2	759+05	462.64	462.97	2 1/2	1 1/2	760+35	462.62	462.62	-	1 1/2
753+40	462.40	462.79	3 1/4	1 1/2	757+80	462.72	464.39	18 1/2	1 1/2	759+10	462.64	462.94	-	3 5/8	760+40	462.61	462.61	-	1 1/2
753+45	462.39	462.83	3 3/4	1 1/2	757+85	462.72	464.33	17 3/4	1 1/2	759+15	462.64	462.91	-	3 1/4	760+45	462.61	462.61	-	1 1/2
753+50	462.39	462.88	4 1/4	1 1/2	757+90	462.71	464.26	17 1/8	1 1/2	759+20	462.64	462.87	-	2 7/8	760+50	462.61	462.61	-	1 1/2
753+55	462.41	462.92	4 5/8	1 1/2	757+95	462.71	464.20	16 3/8	1 1/2	759+25	462.64	462.84	-	2 1/2	760+55	462.61	462.61	-	1 1/2
753+60	462.43	462.97	5	1 1/2	758+00	462.70	464.13	15 5/8	1 1/2	759+30	462.64	462.82	-	2 1/8	760+60	462.60	462.61	-	1 1/2
753+65	462.45	463.02	5 1/4	1 1/2	758+05	462.70	464.06	14 7/8	1 1/2	759+35	462.64	462.79	-	1 7/8	760+65	462.60	462.61	-	1 1/2

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS\DRAWING\Data\GADsheets\D876B50-sht-typical.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N/A | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	12
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION WIDENING	CHANNEL EXCAVATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STA. TO STA.	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
748+50 TO 749+00	0		0	0.0	41.1	-41.1
749+00 TO 750+00	0		0	0.0	221.1	-221.1
750+00 TO 751+00	0		0	0.0	290.1	-290.1
751+00 TO 752+00	14.4		3.4	2.5	586.5	-584.0
752+00 TO 753+00	36.8		15.8	11.8	826.5	-814.7
753+00 TO 754+00	36.3		14.5	10.8	1,174.4	-1,163.6
754+00 TO 754+97	20.2		90.8	68.0	1,489.3	-1,421.3
754+97 TO 757+39	5.7	2493			125.8	-125.8
757+39 TO 758+00	8.0		8.0	6.0	485.2	-479.2
758+00 TO 759+00	25.1		544.5	408.3	308.1	+100.2
759+00 TO 760+00	29.8		1583.6	1187.6	22.5	+1,165.1
760+00 TO 761+00	28.7		1158	868.4	9.8	+858.6
761+00 TO 762+00			16.4	12.3	0.3	+12.0
TOTAL	205	2493	3435	2575.7	5580.7	-3005

TREE REMOVAL SCHEDULE

LOCATION	RT/LT	
STA. TO STA.		ACRES
751+00.00 TO 756+00.00	LT	0.31
754+00.00 TO 754+96.69	LT	0.01
756+46.09 TO 761+00.00	RT	0.36
759+24.33 TO 761+00.00	RT	0.07
TOTAL		0.75

REMOVAL SCHEDULE

LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL				
		SHOULDER		MAINLINE	SHOULDER	
		LEFT	RIGHT		LEFT	RIGHT
STA. TO STA.	SQ YD	PRE-STAGE I	STAGE I	SQ YD	SQ YD	SQ YD
752+00.00 TO 752+40.00			15.6			
752+40.00 TO 753+00.00	243.4		23.3			
753+00.00 TO 753+05.00	20.3	1.9	1.9			
753+05.00 TO 754+61.00		60.7	60.7			
754+61.00 TO 755+04.30		16.8	16.8	125.1	16.9	16.9
757+05.70 TO 757+75.00		27	27	200.2	27	27
757+75.00 TO 759+00.00		48.7	48.6			
759+00.00 TO 759+40.00		15.6				
759+40.00 TO 760+00.00	243.4	23.3				
760+00.00 TO 760+70.00	283.9					
SUBTOTAL		194	193.9	325.3	43.9	43.9
TOTAL	791	801				

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY DITCH CHECKS	EROSION CONTROL BLANKET				
									LT		RT		COMMENTS
STA. TO STA.	FOOT	POUND	ACRE	POUND	POUND	POUND	ACRE	FOOT	DITCH	SLOPE	DITCH	SLOPE	
									SQ YD				
IL 4													
748+50.00 TO 751+00.00	251.5	54	0.18	17.8	17.8	17.8	0.54						
751+00.00 TO 754+00.00	529.5	198	0.66	65.3	65.3	65.3	1.98	20		195.9			FORESLOPE
754+00.00 TO 754+50.00	130	42	0.14	13.9	13.9	13.9	0.42			193.3			FORESLOPE
754+50.00 TO 754+97.00		42	0.14	13.9	13.9	13.9	0.42	30		138.5			FORESLOPE
CHANNEL		24	0.08	7.9	7.9	7.9	0.24						BACKSLOPE
757+39.00 TO 758+00.00	70	33	0.11	10.9	10.9	10.9	0.33	119	69.8				
758+00.00 TO 758+50.00	50	30	0.10	9.9	9.9	9.9	0.30	16.00		129.7			BACKSLOPE
758+50.00 TO 761+75.00	71	177	0.59	58.4	58.4	58.4	1.77	33	48.3	1020.8	86.6	538.1	BACKSLOPE
TOTAL	1102	600	2	198	198	198	6	218	2421				

STAGING SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	TEMPORARY RUMBLE STRIP	TEMPORARY BRIDGE TRAFFIC SIGNALS
STA.	FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE I	600		2			
STAGE II		600		2		
STAGE I & II					6	1
TOTAL	600	600	2	2	6	1

RESURFACING SCHEDULE

LOCATION			HOT-MIX ASPHALT BASE COURSE, 11 1/4"		BITUMINOUS MATERIALS (PRIME COAT)		HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90		HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)		HOT-MIX ASPHALT SHOULDERS		AGGREGATE SHOULDERS, TYPE A 6"
			LEFT	RIGHT										
			PRE-STAGE I	STAGE I	STAGE I	STAGE II	STAGE I	STAGE II		STAGE I	STAGE II	LEFT	RIGHT	
STA.	TO	STA.	SQ YD	SQ YD	POUND	POUND	TON	TON	TON	SQ YD	SQ YD	TON	TON	SQ YD
751+40.00	TO	751+70.00		23.34										
751+70.00	TO	752+40.00	27.24	54.45										
752+40.00	TO	753+29.50	34.82	69.63	89.54	73.87			29.36			3.95	7.91	34.9
753+29.50	TO	754+35.00	41.04	82.08	105.53	87.07	151.86	119.76	25.96			3.38	6.96	41.1
754+35.00	TO	754+61.00	10.13		26.03	21.46			6.39			0.84	1.72	10.1
754+61.00	TO	754+67.00	2.35		6	4.95			1.47	14	14	0.2	0.4	
754+67.00	TO	755+04.30	14.52											
BRIDGE OMISSION			BRIDGE APPROACH AND STRUCTURE (SN 060-0344)											
757+05.70		757+69.00	24.62											
757+69.00	TO	757+75.00	2.34		6	4.95			1.47	14	14	0.2	0.4	
757+75.00	TO	758+15.00	15.56		40.03	33.01	175.69	137.69	9.84			1.28	2.64	15.6
758+15.00		759+08.00	36.17	72.34	93.03	76.76			22.88			3.05	6.28	36.2
759+08.00	TO	760+70.00	63.01	126.02	162.07	133.7			46.63			6.23	12.56	63.1
760+70.00		761+00.00		23.34										
SUBTOTAL			271.8	451.2	528.23	435.77	327.55	257.45		28	28	19.13	38.87	
TOTAL			723		964		585		144	56		58		201

TEMPORARY RAMP SCHEDULE

LOCATION			WIDTH	LENGTH	TEMPORARY RAMP
STA.	TO	STA.	FOOT	FOOT	SQ YD
752+40.00	TO	752+45.00	36.5	5	20.4
753+22.00	TO	753+29.50	36.5	7.5	30.7
754+62.00	TO	754+67.00	36.5	5	20.4
757+69.00	TO	757+74.00	36.5	5	20.4
759+08.00	TO	759+15.50	36.5	7.5	30.7
760+65.00	TO	760+70.00	36.5	5	20.4
TOTAL					143

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER - DIRECT APPLIED
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
NORTHBOUND IL 4					6	3	3	
SOUTHBOUND IL 4					5	3	3	
NE QUADRANT	164	100	1	1				1
NW QUANDRANT	276.5	112.5	1	1				1
SE QUADRANT	277	187.5	1	1				1
SW QUADRANT	164.5	112.5	1	1				1
TOTAL	882	512.5	4	4	11	6	6	4

ROW MARKERS SCHEDULE

LOCATION	OFFSET	RT/LT	FURNISHING & ERECTING RIGHT-OF-WAY MARKERS
STA.	FOOT		EACH
751+00	40	LT	1
751+00	55	RT	1
751+50	55	LT	1
752+00	75	RT	1
753+00	75	RT	1
753+50	65	LT	1
754+50	110	RT	1
755+44.83	65	LT	1
755+65.50	70	RT	1
756+46.09	50	LT	1
759+00	85	LT	1
760+50	70	LT	1
760+50	70	RT	1
761+00	50	LT	1
761+00	50	RT	1
TOTAL			15

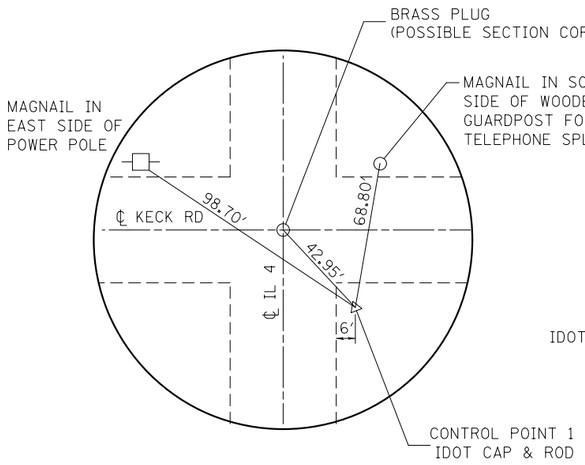
PAVEMENT MARKING SCHEDULE

LOCATION			THERMOPLASTIC PAVEMENT MARKING - LINE 4"			POLYUREA PAVEMENT MARKING TYPE I - LINE 4"			SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING - LINE 4"			PAVEMENT MARKING REMOVAL	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER		
			CENTERLINE	EDGE LINE		CENTERLINE	EDGE LINE			CENTERLINE	EDGE LINE				REMOVAL	2-WAY AMBER	(BRIDGE) 2-WAY AMBER
			SKIP-DASH	SOLID WHITE		SKIP-DASH	SOLID WHITE			SKIP-DASH	SOLID WHITE						
			YELLOW	LEFT	RIGHT	YELLOW	LEFT	RIGHT		YELLOW	LEFT	RIGHT					
STA.	TO	STA.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	EACH	EACH	EACH
749+52.00	TO	754+67.00	130	515	515				144	130	515	515	386.9	434.9	7	7	
754+67.00	TO	757+69.00				80	302	302	84	80	302	302	228.2	256.2	4		4
757+69.00	TO	762+84.00	130	515	515				144	130	515	515	386.9	434.9	7	7	
SUBTOTAL			260	1030	1030	80	302	302		340	1332	1332					
TOTAL			2320			684			372	3004			1002	1126	18	14	4

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS\DRAWNData\GADsheets\D876B50-sht-schedules.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES**	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			314	110BR-1	MADISON	94	14
	PLOT DATE = 8/14/2015	DATE -	REVISED -		SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 76B50		
						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

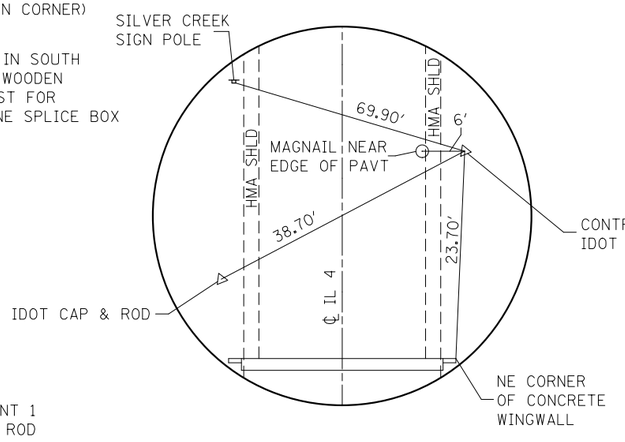
N

BM: CHISELED "□" ON THE SE WINGWALL OF EXISTING BRIDGE ON IL 4 OVER SILVER CREEK, SN 060-0109.
STATION 757+04, OFFSET 17' LEFT, ELEVATION 462.37



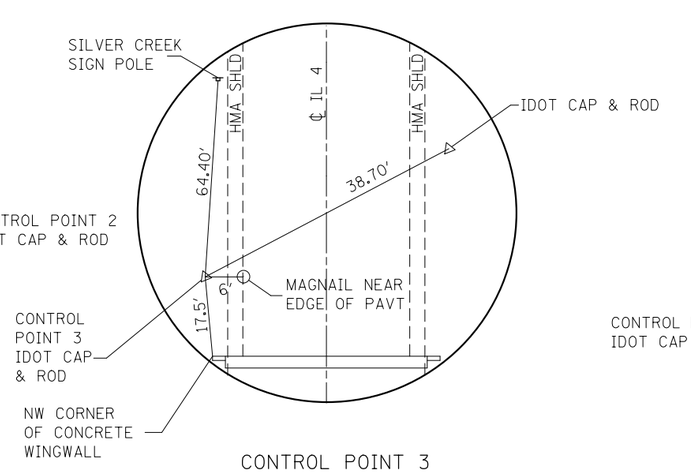
CONTROL POINT 1

STATION 742+67.77
OFFSET 18.83' LT
N. 751,071.0035 E. 401,017.8065



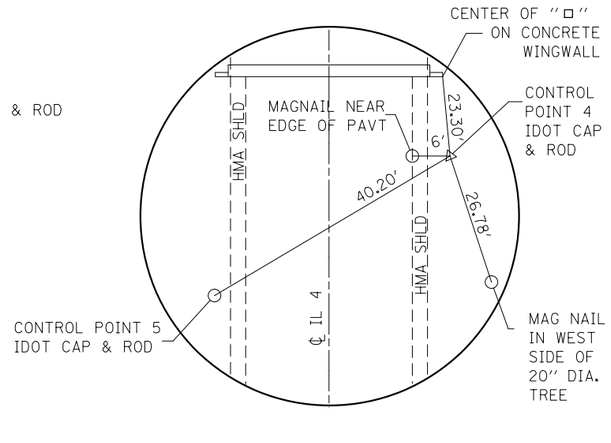
CONTROL POINT 2

STATION 754+81.24
OFFSET 18.74' LT
N. 749,857.6550 E. 401,035.0210



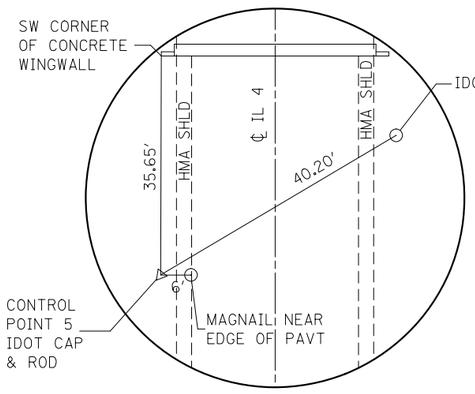
CONTROL POINT 3

STATION 754+87.54
OFFSET 18.54' RT
N. 749,850.8230 E. 400,997.9070



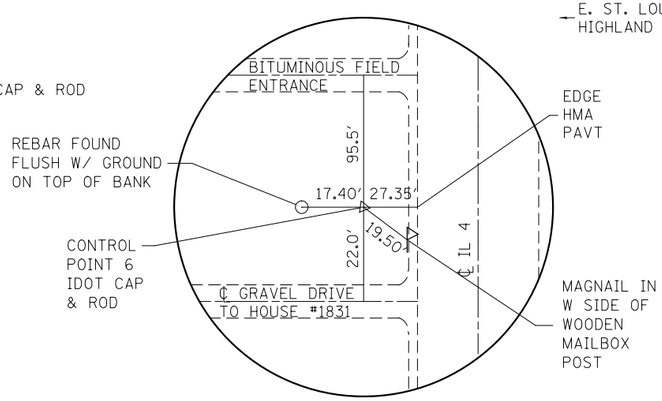
CONTROL POINT 4

STATION 757+27.99
OFFSET 18.87' LT
N. 749,610.9290 E. 401,038.6710



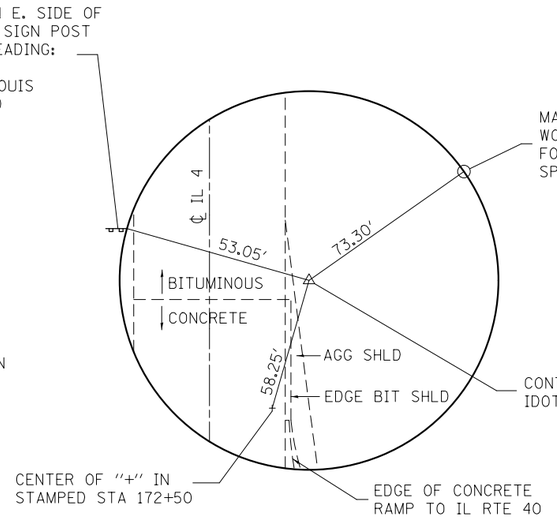
CONTROL POINT 5

STATION 757+40.74
OFFSET 19.24' RT
N. 749,597.6390 E. 401,000.7500



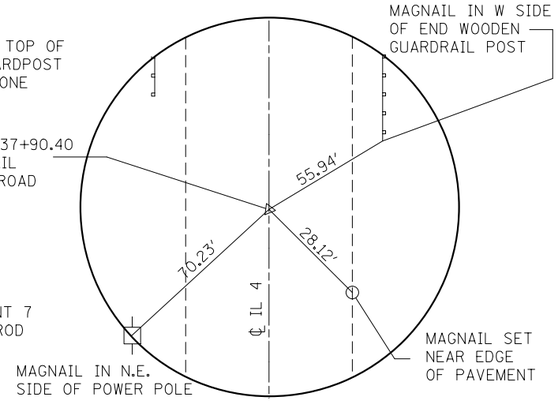
CONTROL POINT 6

STATION 764+05.90
OFFSET 40.42' RT
N. 748,932.2412 E. 400,989.0639



CONTROL POINT 7

STATION 755+24.30
OFFSET 23.19' LT
N. 747,814.8671 E. 401,068.6209



EXISTING ALIGNMENT - STA 737+90.40

N. 751,548.0486 E. 400,992.1633

NOTES:
NOT TO SCALE.
ALL TIES ARE PULLED DIRECT.

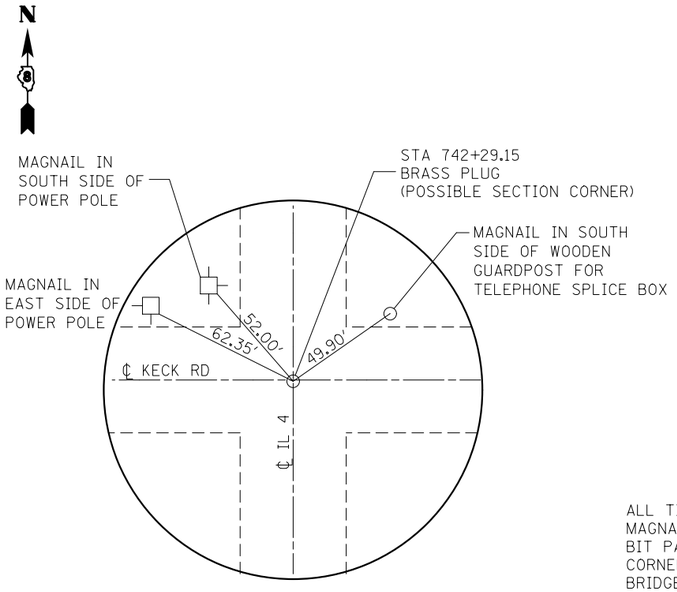
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIDSDrawingData\GADsheets\D876B50-sht-ATB.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIES AND BENCHMARKS

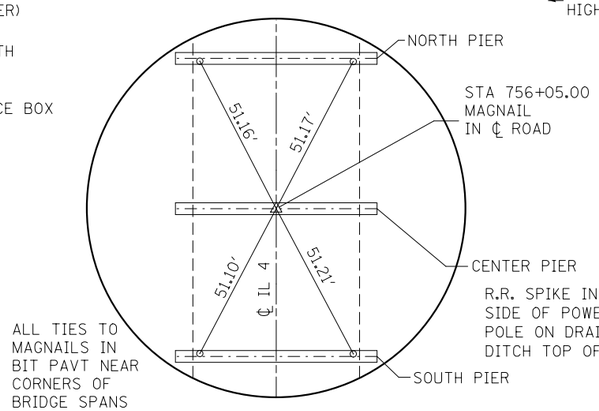
SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	15
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



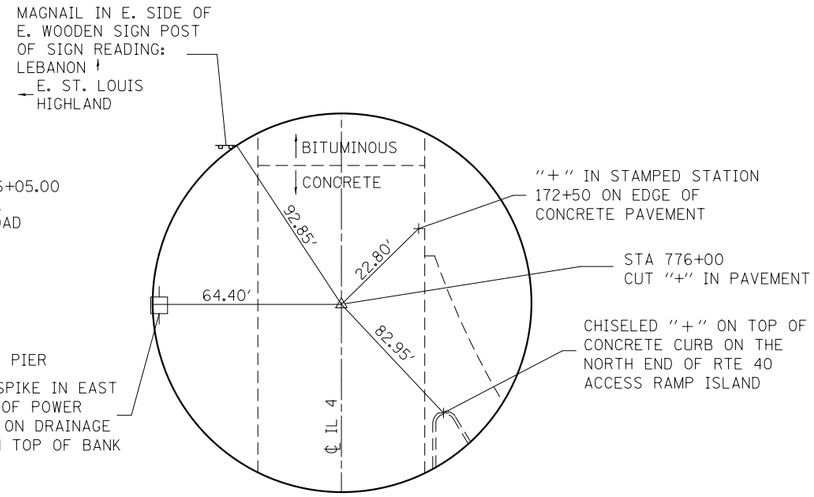
EXISTING ALIGNMENT - STA 742+29.15 ±

N. 751,109.3464 E. 400,998.4224



EXISTING ALIGNMENT - STA 756+05.00

N. 749,733.6365 E. 401,018.0502



EXISTING ALIGNMENT - STA 776+00

N. 747,738.8395 E. 401,046.5107

NOTES:
NOT TO SCALE.
ALL TIES ARE PULLED DIRECT.

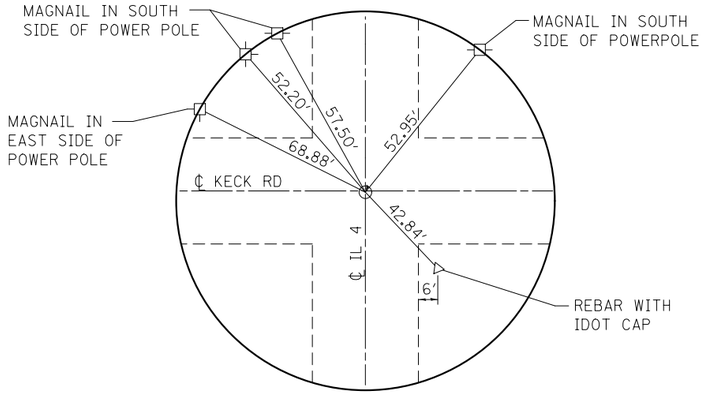
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIBSData\GADsheets\D876B50-sht-ATB.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

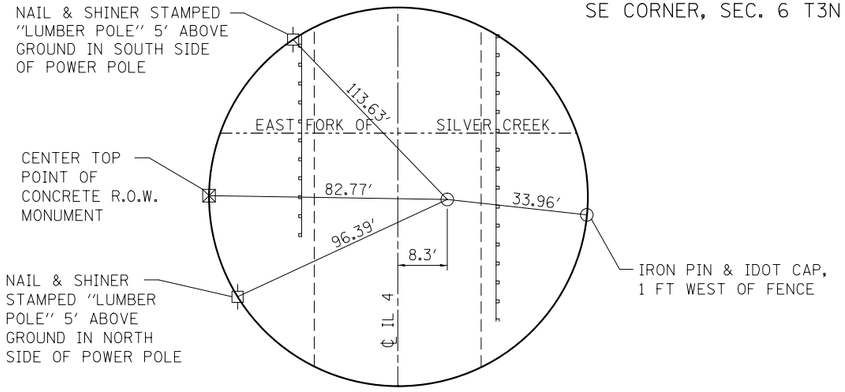
TIES AND BENCHMARKS

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

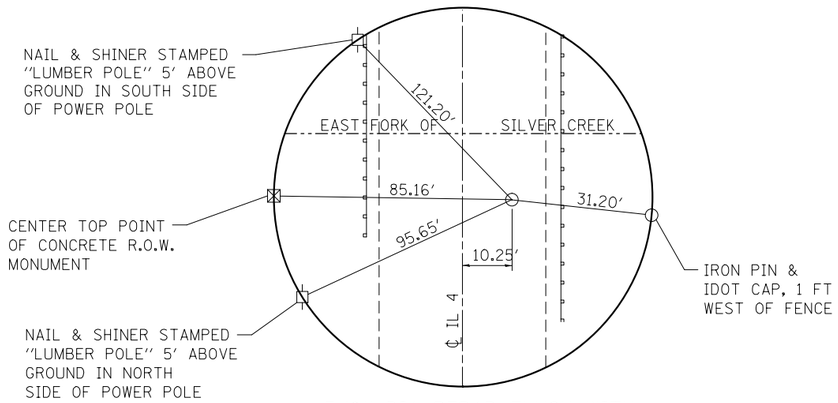
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	16
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BRASS PLUG - POSSIBLE SECTION CORNER
@ APPROXIMATE ℄ STA 742+29.15
SE CORNER, SEC. 6 T3N - R6W

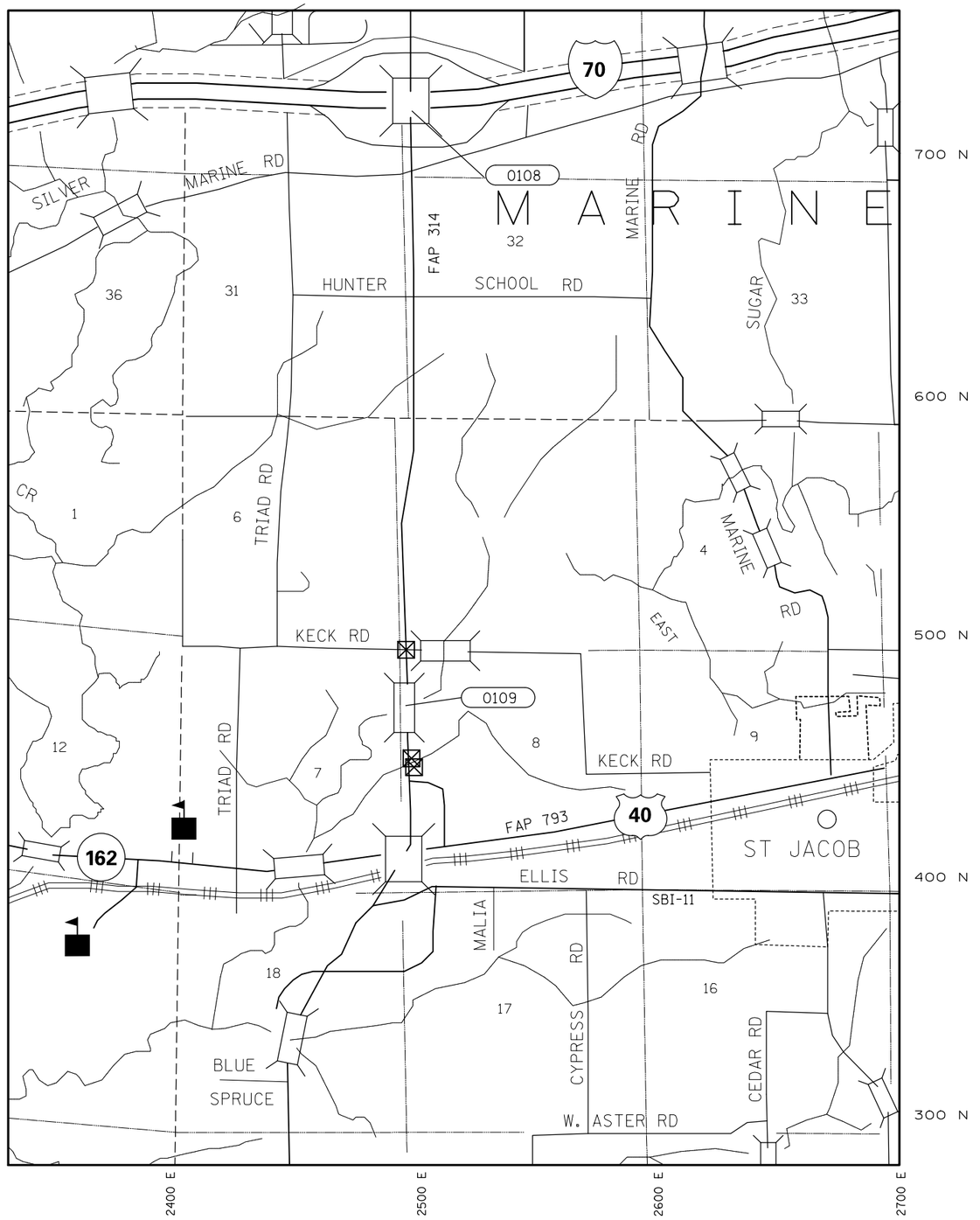


DIVIT IN 1" DIA. METAL MARKER
STAMPED: "SURVEY MARK MAG SPIKE"
E 1/4 COR., SEC.7 T3N - R6W



5/8" DIA REBAR FLUSH WITH
BITUMINOUS PAVEMENT
E 1/4 COR., SEC.7 T3N - R6W

NOTES: NOT TO SCALE.
ALL TIES ARE PULLED DIRECT.



☒ - SURVEY MONUMENT COVER ASSEMBLY - 3 EACH

NOTE: NOT TO SCALE

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIMSDrawingData\GADsheets\D876B50-sht-ATB.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT COVER ASSEMBLY

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	17
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

N

HMA BASE COURSE 11¼"
(CONSTRUCTED PRE-STAGE I)

LIMITS OF CONSTRUCTION

PROPOSED RIGHT OF WAY

EXISTING RIGHT OF WAY

STA 751+70

3.5'

13'

13'

13'

746 | 747 | 748 | 749 | ℄ IL 4 | 750+00 | 751

7'

HMA BASE CSE 11¼"

STA 751+40

MATCH LINE STA. 752+00

EXISTING RIGHT OF WAY

PROPOSED RIGHT OF WAY

LIMITS OF CONSTRUCTION

20' 0 20' 40'

SCALE: 1" = 20'

480 475 470 465 460 455 450 445 440

462.43 462.43 462.36 462.31 462.32 462.31 462.33 462.39 462.37 462.37 462.40 462.45 462.43

746+00 746+50 747+00 747+50 748+00 748+50 749+00 749+50 750+00 750+50 751+00 751+50 752+00

EXISTING PROFILE

450.16

-0.82%

PROPOSED SPECIAL DITCH PROFILE RIGHT

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1050\DRAWINGS\CABsheets\D876850-sht-plnprf.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

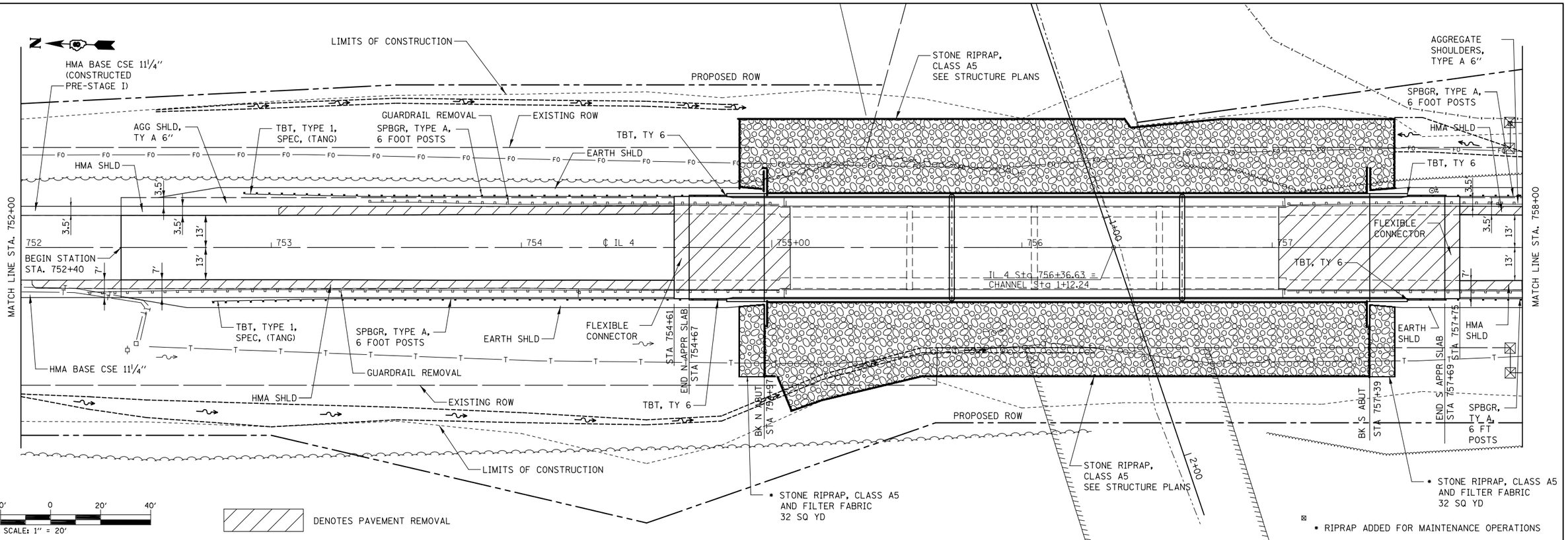
PLAN AND PROFILE SHEET

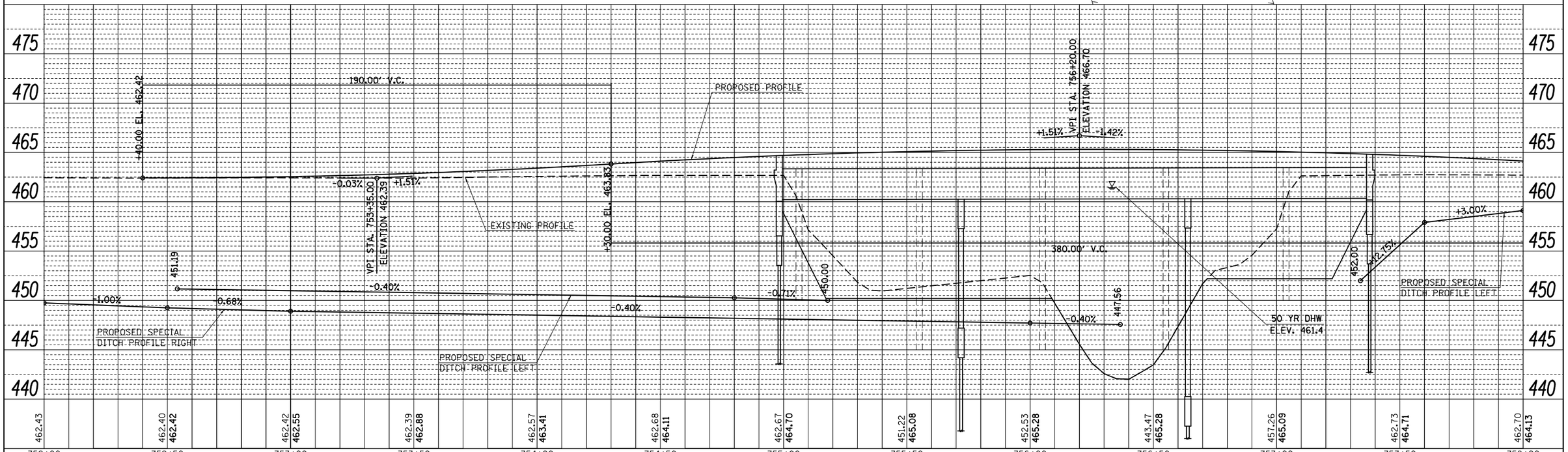
SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 746+00.00 TO STA. 752+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	18
		CONTRACT NO. 76B50		
	ILLINOIS FED. AID PROJECT			

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

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





FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\Drawings\CABsheets\D876B50-sht-plnprf.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 752+00.00 TO STA. 758+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	19
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

PROPOSED ROW

EXISTING ROW

SPBGR, TYPE A, 6 FOOT POSTS

LIMITS OF CONSTRUCTION

GUARDRAIL REMOVAL

EARTH SHLD

AGG SHLD, TYPE A 6"

HMA SHLD

TBT, TYPE 1, SPEC, (TANG)

FO

MATCH LINE STA. 758+00

3.5'

13'

7'

END STATION STA. 760+70

758 | 759 | 760+00 | 761 | ℄ IL 4 | 762 | 763

STA 761+00

FL 461.00 — 15" CMP — FL 460.85

DI 11.48 PE

DI 10.50

EARTH SHLD

SPBGR, TYPE A, 6 FOOT POSTS

GUARDRAIL REMOVAL

TBT, TYPE 1, SPEC, (TANG)

HMA SHLD

HMA BASE CSE 1 1/4"

PROPOSED ROW

EXISTING ROW

LIMITS OF CONSTRUCTION

DENOTES PAVEMENT REMOVAL

20' 0 20' 40'

SCALE: 1" = 20'

480 475 470 465 460 455 450 445 440

190.00' V.C.

+0.00 EL. 463.99

+0.00 EL. 462.62

PROPOSED PROFILE

-1.42%

-0.02%

+0.40%

+0.86%

+0.80%

+0.48%

+1.36%

+1.78%

+1.60%

462.61

460.79

461.50

VPI STA. 759+05.00

ELEVATION 462.64

458.84

EXISTING PROFILE

PROPOSED SPECIAL DITCH PROFILE LEFT

PROPOSED SPECIAL DITCH PROFILE RIGHT

462.70 464.13 | 462.64 463.48 | 462.64 463.01 | 462.63 462.72 | 462.62 462.62 | 462.61 462.61 | 462.59 | 462.58 | 462.58 | 462.64 | 462.67 | 462.72 | 462.67

758+00 | 758+50 | 759+00 | 759+50 | 760+00 | 760+50 | 761+00 | 761+50 | 762+00 | 762+50 | 763+00 | 763+50 | 764+00

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

PROFILE — SURVEYED, PLOTTED, DESIGN CHECKED, BM. NOTED, STRUCTURE NO(S)/TNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1050\DRAWINGS\CADsheets\D876850-sht-plnprf.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 758+00.00 TO STA. 764+00.00

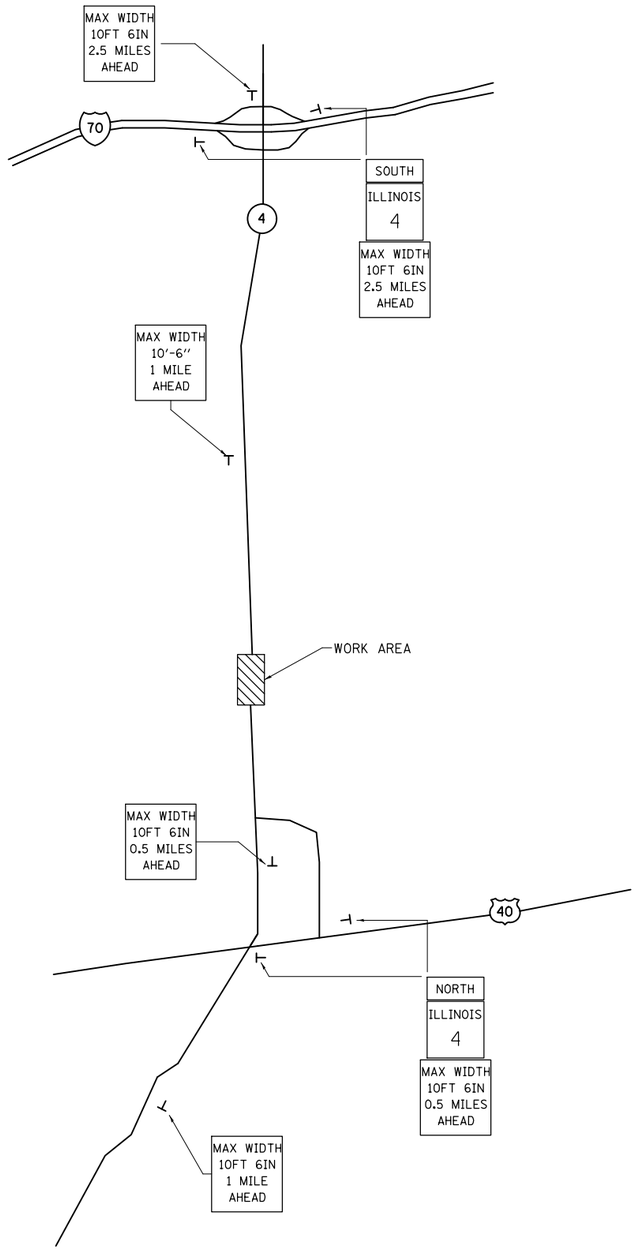
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	20
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE, PHONE (618) 394-2189.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400′ OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6′.

SIGNS REQUIRED

MAX WIDTH 10FT 6IN 0.5 MILES AHEAD	(3)	NORTH	(2)
MAX WIDTH 10FT 6IN 1 MILE AHEAD	(2)	SOUTH	(2)
MAX WIDTH 10FT 6IN 2.5 MILES AHEAD	(3)	ILLINOIS 4	(4)



NOTE: NOT TO SCALE

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI95\DrawingData\GADsheets\D876B50-sht-stage1.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDE LOAD SIGNING

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	21
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUGGESTED SEQUENCE OF CONSTRUCTION

PRE - STAGE I:

CONSTRUCT 3.5′ HMA BASE CSE 11 ¼″ IN THE NORTHEAST AND SOUTHEAST QUADRANTS.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701326.

STAGE I:

PLACE STOP BARS AS SHOWN ON PLANS.

REMOVE SKIP-DASH PAVEMENT MARKING BETWEEN STOP BARS.

PLACE 600 FOOT TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS, TEMPORARY.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

CONSTRUCT 7′ HMA BASE CSE 11 ¼″ IN THE NORTHWEST AND SOUTHWEST QUADRANTS AS SHOWN ON PLANS.

CONSTRUCT HMA BINDER CSE FOR STAGE I CONSTRUCTION.

INSTALL GUARDRAIL FOR STAGE I CONSTRUCTION ACCOUNTING FOR FINAL RDWY ELEVATIONS.

PERFORM ANY ADDITIONAL NECESSARY WORK FOR STAGE I CONSTRUCTION.

STAGE II:

RELOCATE 600 FT TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS, TEMPORARY.

CONSTRUCT HMA BINDER CSE FOR STAGE II CONSTRUCTION.

INSTALL GUARDRAIL FOR STAGE II CONSTRUCTION ACCOUNTING FOR FINAL RDWY ELEVATIONS.

PERFORM ANY ADDITIONAL NECESSARY WORK FOR STAGE II CONSTRUCTION.

POST - STAGE II:

MILL EACH END OF THE PROJECT AS REQUIRED FOR HMA SURFACE REMOVAL - BUTT JOINT.

PLACE HMA SURFACE COURSE ON THE RDWY.

PLACE HMA SHOULDERS ON THE EAST AND WEST PORTION OF THE PROJECT TO OBTAIN THE FINAL ELEVATION.

CONSTRUCT PROPOSED AGGREGATE SHOULDER ON THE EAST SIDE OF PROJECT.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701306.

APPLY PAVEMENT MARKINGS UTILIZING TRAFFFIC CONTROL AND PROTECTION, STANDARD 701311.

PERFORM ANY ADDITIONAL WORK REQUIRED.

LEGEND

① EXISTING PCC PAVEMENT - 9″-6″-9″

② EXISTING BITUMINOUS OVERLAY, 3″

③ EXISTING BITUMINOUS BASE COURSE WIDENING, 9″

④ EXISTING AGGREGATE SHOULDERS

⑤ EXISTING BITUMINOUS BASE COURSE WIDENING SUPERPAVE - 8″

⑥ PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIES 2¼″ TO 19⅛″

⑦ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1½″

⑧ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½″

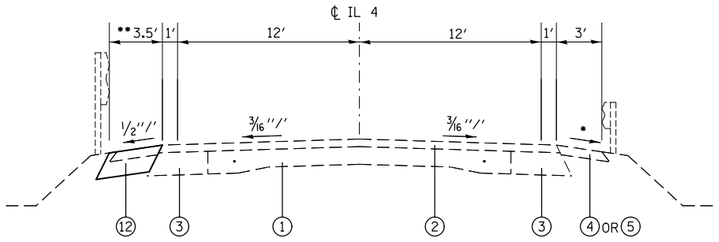
⑨ PROPOSED AGGREGATE SHOULDERS, 6″

⑩ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)

⑪ PROPOSED AGGREGATE (PRIME COAT)

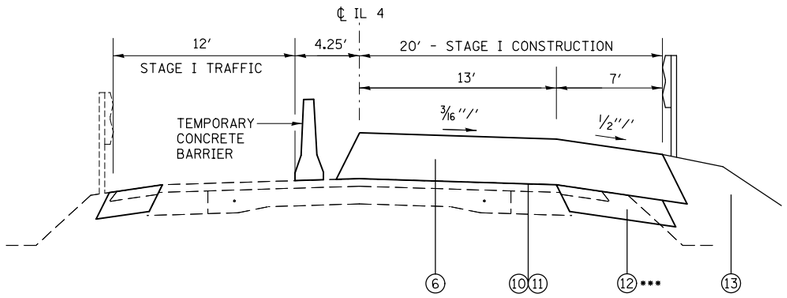
⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE, 11¼″

⑬ PROPOSED EARTHWORK



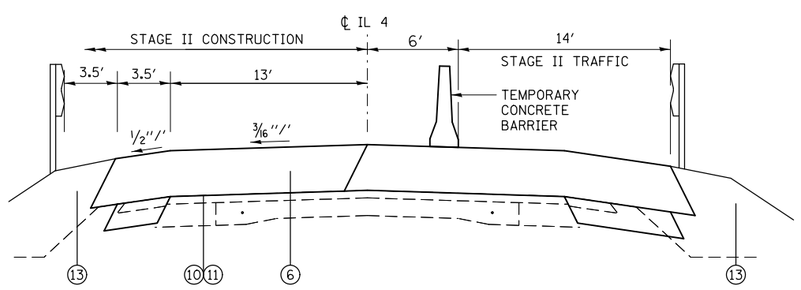
TYPICAL: PRE-STAGE I CONSTRUCTION

STA 751+70 TO STA 755+04.3
STA 757+05.7 TO STA 760+70



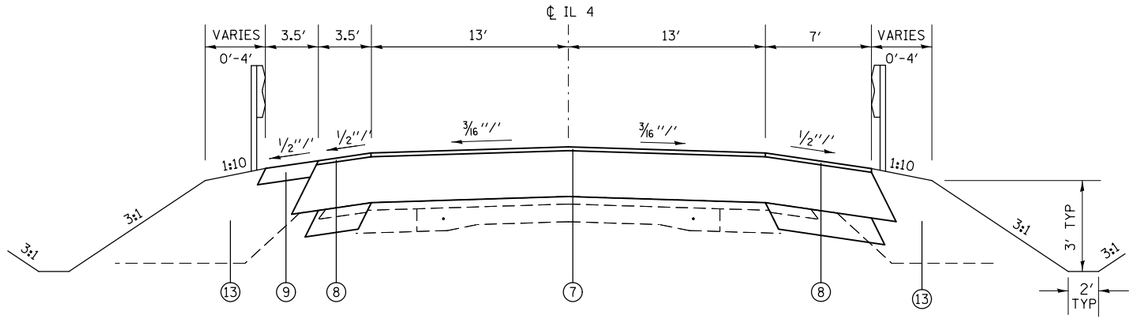
TYPICAL: STAGE I CONSTRUCTION

STA 753+29.5 TO STA 754+61
STA 757+75 TO STA 759+08



TYPICAL: STAGE II CONSTRUCTION

STA 753+29.5 TO STA 754+61
STA 757+75 TO STA 759+08



TYPICAL: POST - STAGE II CONSTRUCTION

STA 752+40 TO STA 754+61
STA 757+75 TO STA 760+70

* VARIES FROM ½″/′ TO ¾″/′

** IT APPEARS FEASIBLE FOR A WIDTH OF 3.5′ TO BE CONSTRUCTED WITHOUT DISTURBING THE EXISTING GUARDRAIL. EXISTING GUARDRAIL IS TO REMAIN IN PLACE FOR STAGE I TRAFFIC AND SHALL NOT BE DISTURBED TO CONSTRUCT HMA BASE COURSE . IF NECESSARY, WIDTH MAY BE MODIFIED PROVIDED A 12′ LANE IS PRESENT FOR STAGE I TRAFFIC.

*** STA 751+40 TO STA 754+35
STA 758+15 TO STA 761+00

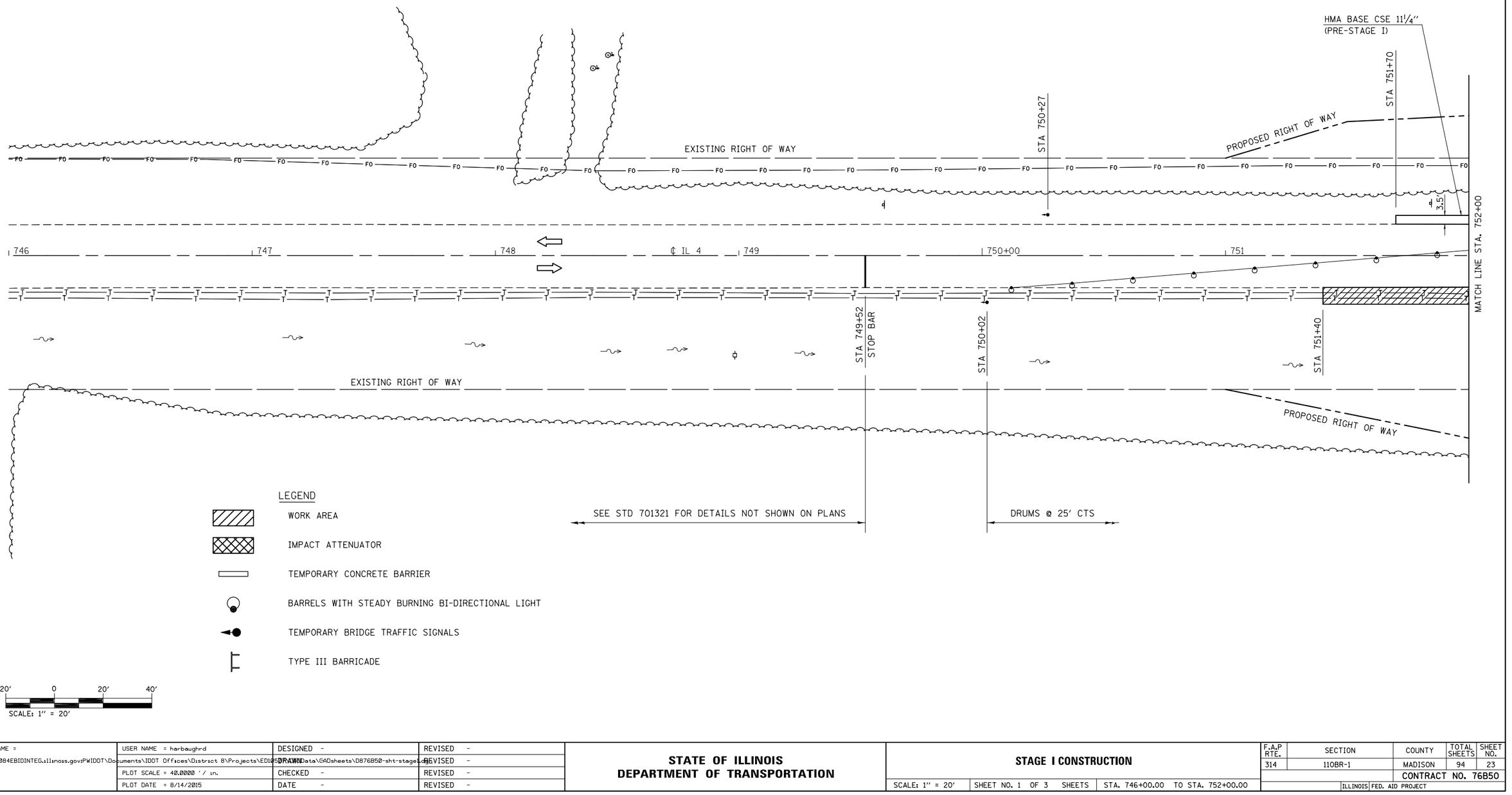
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI95\DrawingData\GADsheets\D876B50-sht-stage1.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	22
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		



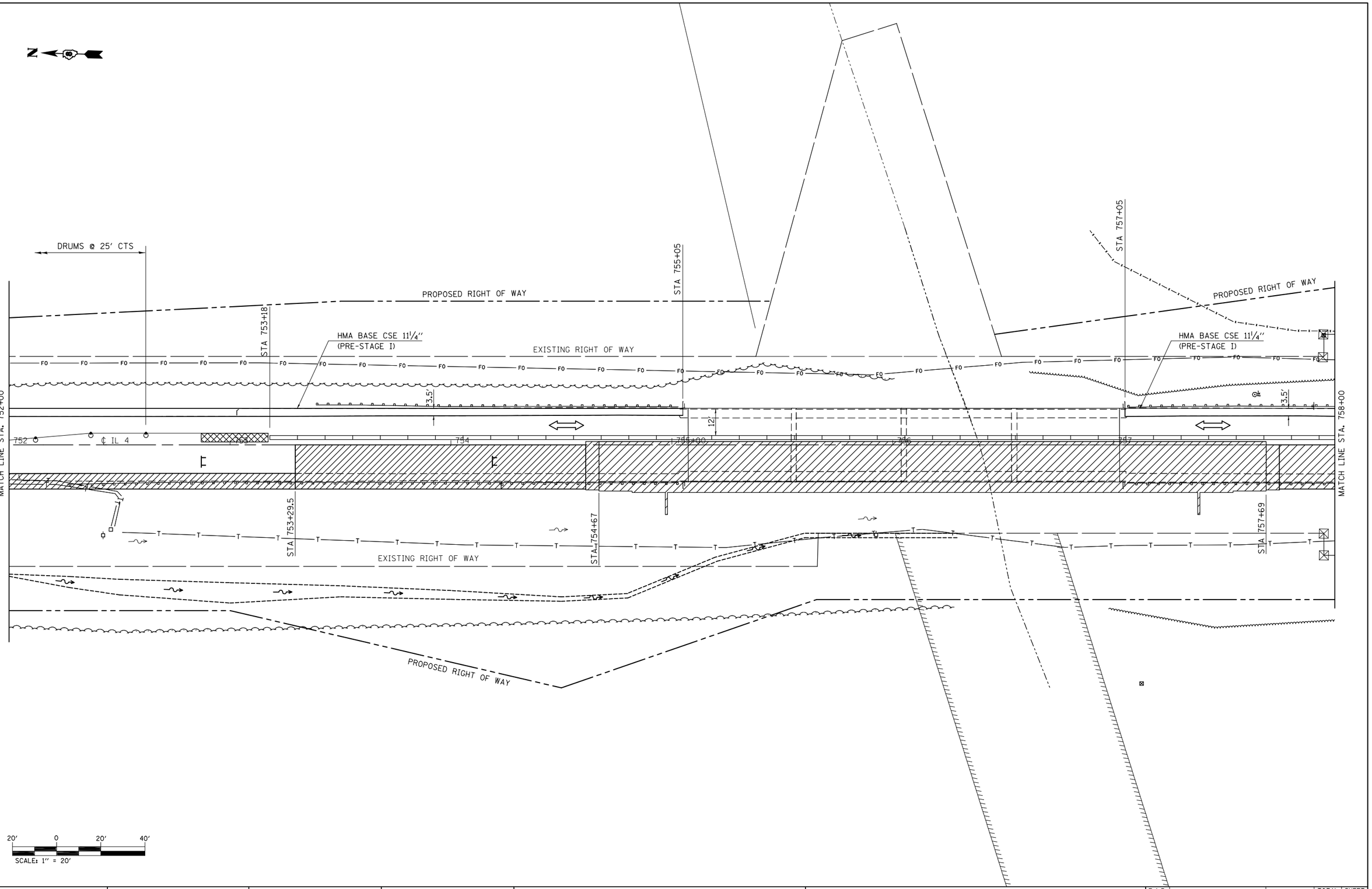
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1905\WorkData\GADsheets\D876B50-sht-stage1.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 746+00.00 TO STA. 752+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	23
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		



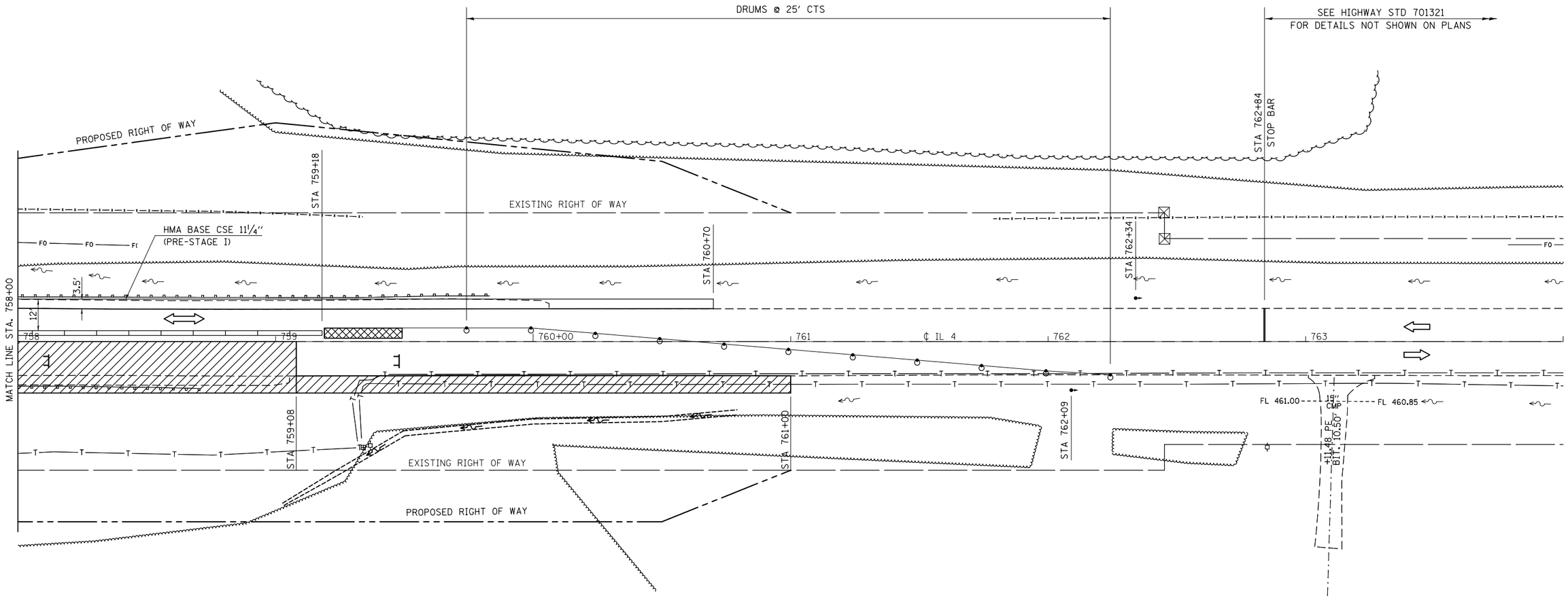
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED105\DrawingData\GADsheets\D876B50-sht-stage1.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 752+00.00 TO STA. 758+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	24
		CONTRACT NO. 76B50		
	ILLINOIS FED. AID PROJECT			



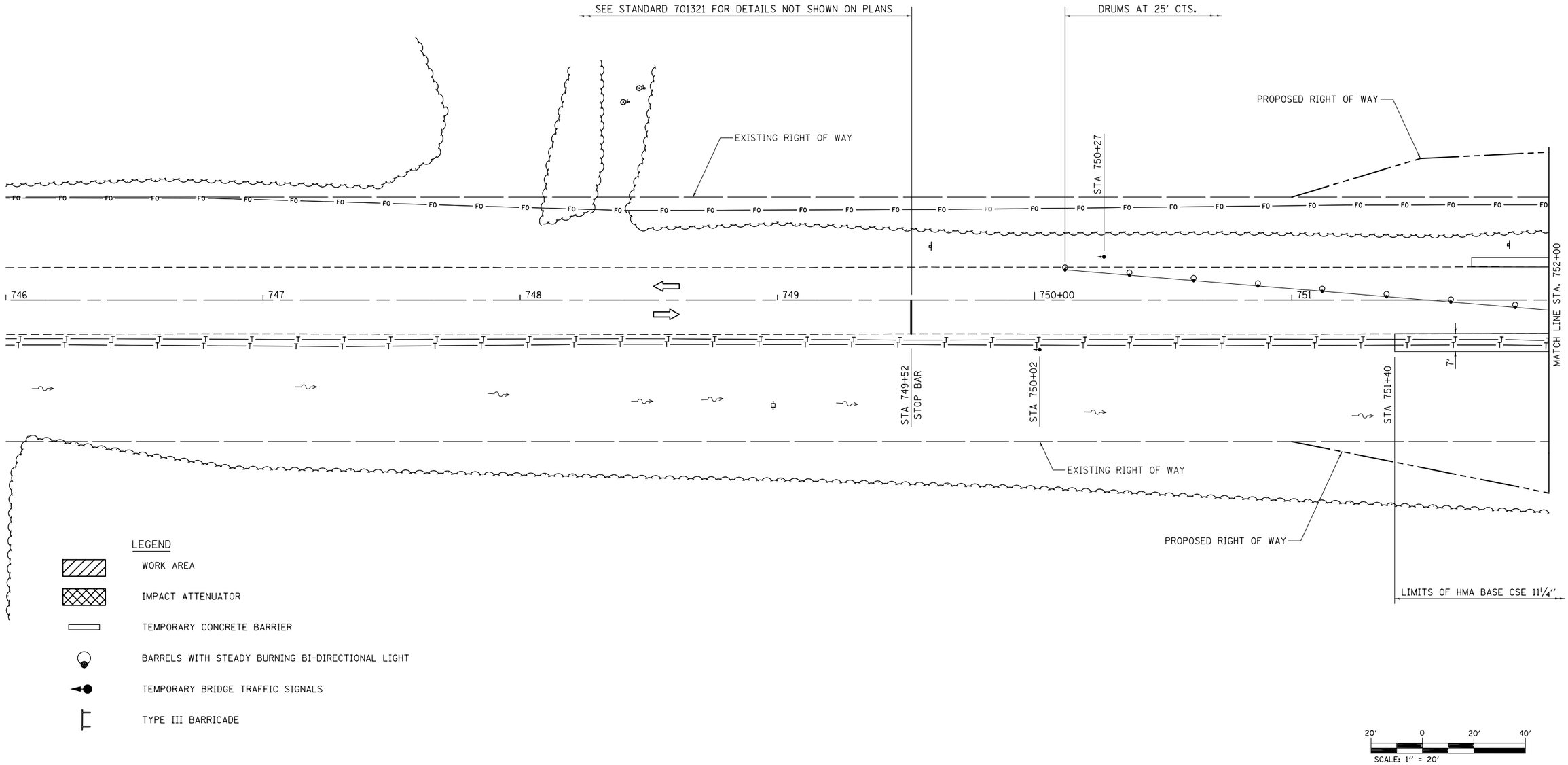
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI\85\DrawingData\GADsheets\D876B50-sht-stage1.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 758+00.00 TO STA. 764+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	25
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		



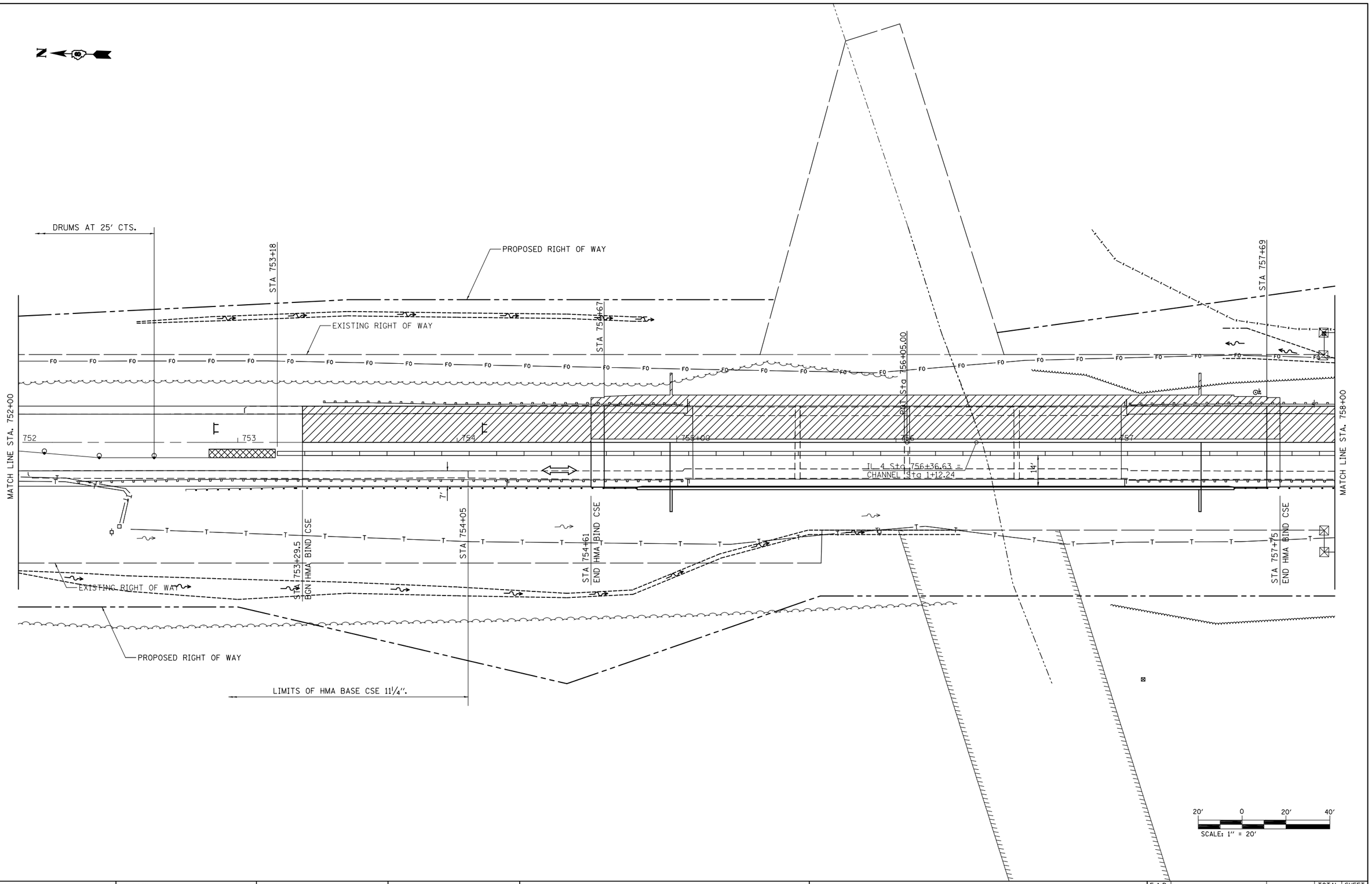
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI95\DRAWINGData\GADsheets\D876B50-sht-stage2.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 746+00.00 TO STA. 752+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	26
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		



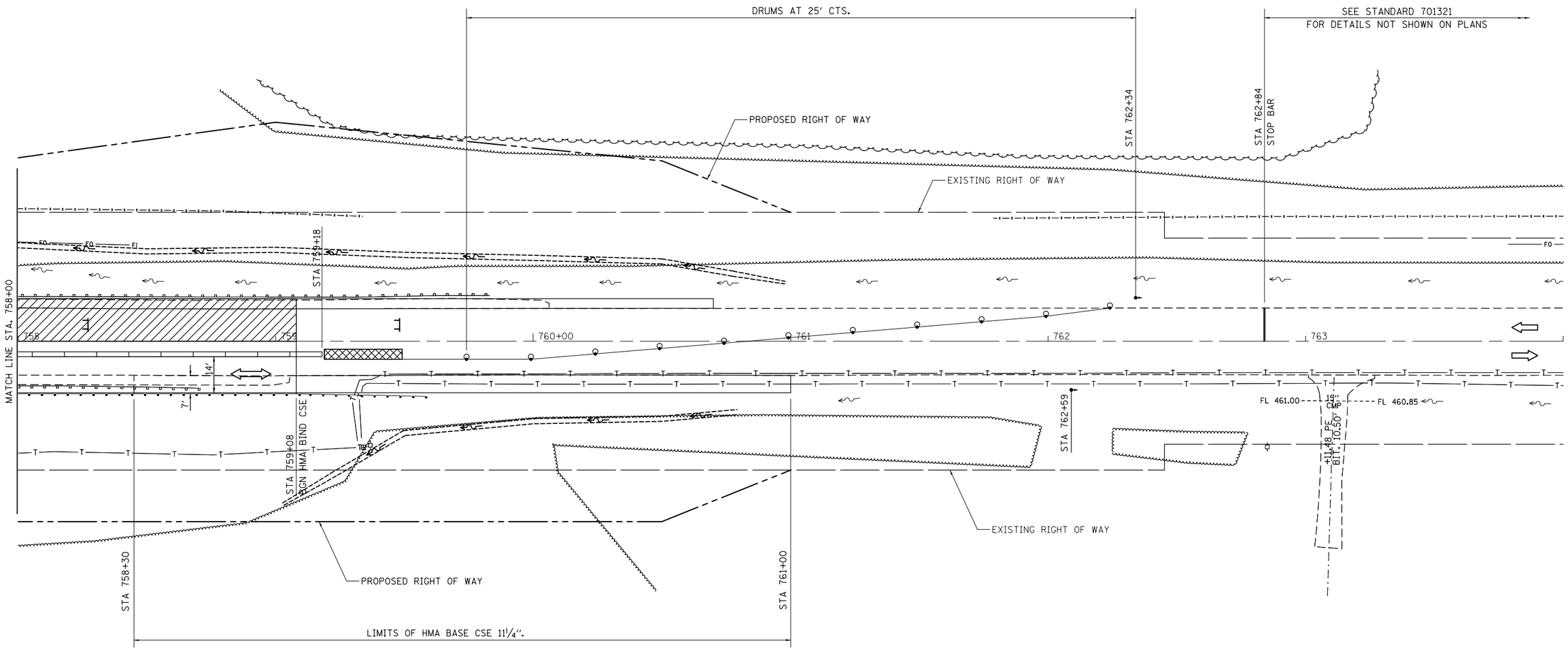
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED105\DrawingData\GADsheets\D876B50-sht-stage2.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 752+00.00 TO STA. 758+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	27
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1405\DrawingData\GADsheets\D876B50-sht-stage2.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 758+00.00 TO STA. 764+00.00

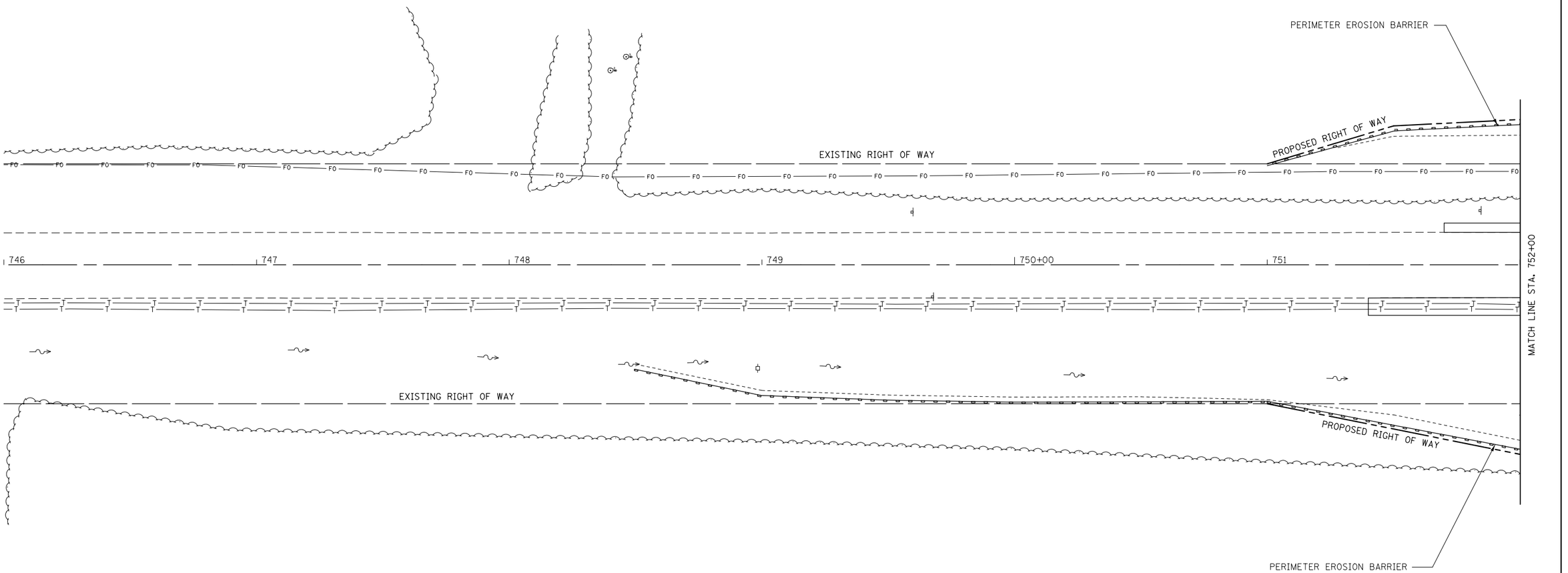
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	28
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

PLAN	
	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	RT. 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



LEGEND

TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS

EROSION CONTROL BLANKET

PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER

20′ 0 20′ 40′

SCALE: 1″ = 20′

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1050\DRAWINGS\CABsheets\D876850-sht-eros.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEET

SCALE: 1″ = 20′ | SHEET NO. 1 OF 3 SHEETS | STA. 746+00.00 TO STA. 752+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	29
		CONTRACT NO. 76B50		
	ILLINOIS FED. AID PROJECT			

PERIMETER EROSION BARRIER

PROPOSED RIGHT OF WAY

EXISTING RIGHT OF WAY

PROPOSED RIGHT OF WAY

MATCH LINE STA. 752+00

752 753 754 755+00 756 757

IL 4 Sta 756+36.63 = CHANNEL Sta 1+12.24

MATCH LINE STA. 758+00

EXISTING RIGHT OF WAY

PROPOSED RIGHT OF WAY

PERIMETER EROSION BARRIER

PERIMETER EROSION BARRIER

20′ 0 20′ 40′

SCALE: 1″ = 20′

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

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1050\DRAWINGS\CABsheets\D876850-sht-eros.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

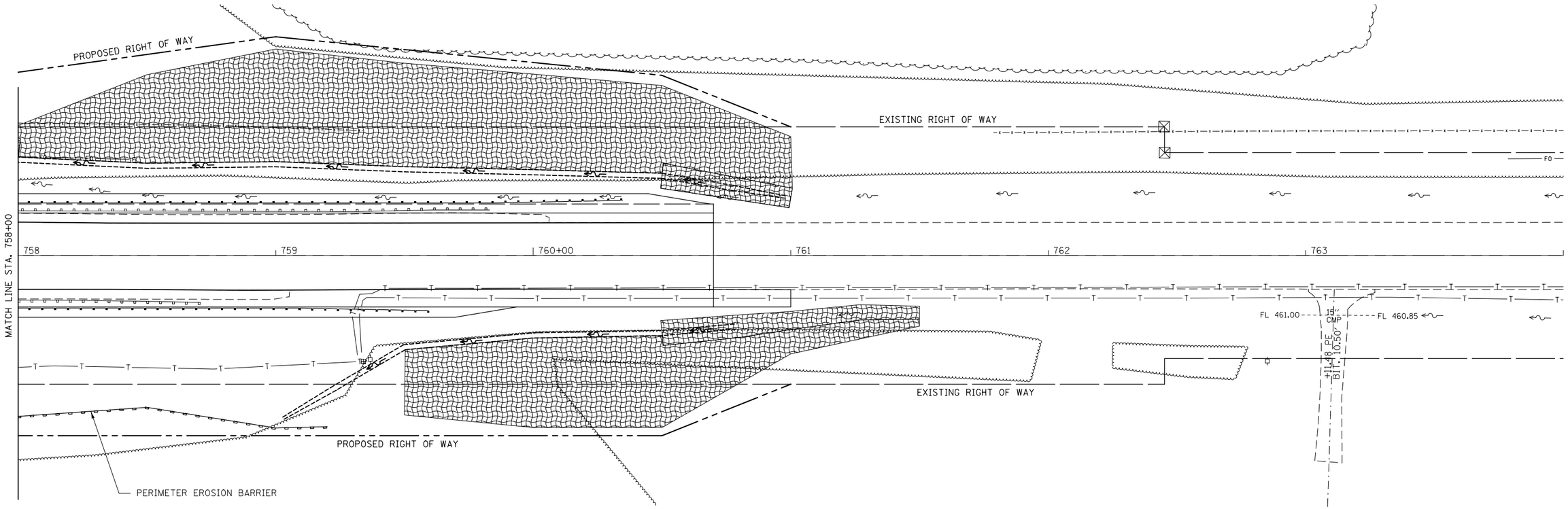
EROSION AND SEDIMENT CONTROL SHEET

SCALE: 1″ = 20′ | SHEET NO. 2 OF 3 SHEETS | STA. 752+00.00 TO STA. 758+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	30
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		

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

PROFILE
SURVEYED
PLOTTED
GRADE CHECKED
B.M. NOTED
STRUCTURE NO'S/ITHS CHKD
NOTE BOOK
NO.
BY
DATE



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1050\Drawings\CABsheets\D876850-sht-eros.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEET

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 758+00.00 TO STA. 764+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	31
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1		COVER SHEET
2		LEGEND/NOTE SHEET
3	742+00 TO 755+67	PAR. 8817011, 8817012
4	755+67 TO 769+05	PAR. 8817013, 8817014
5		TOTAL HOLDING

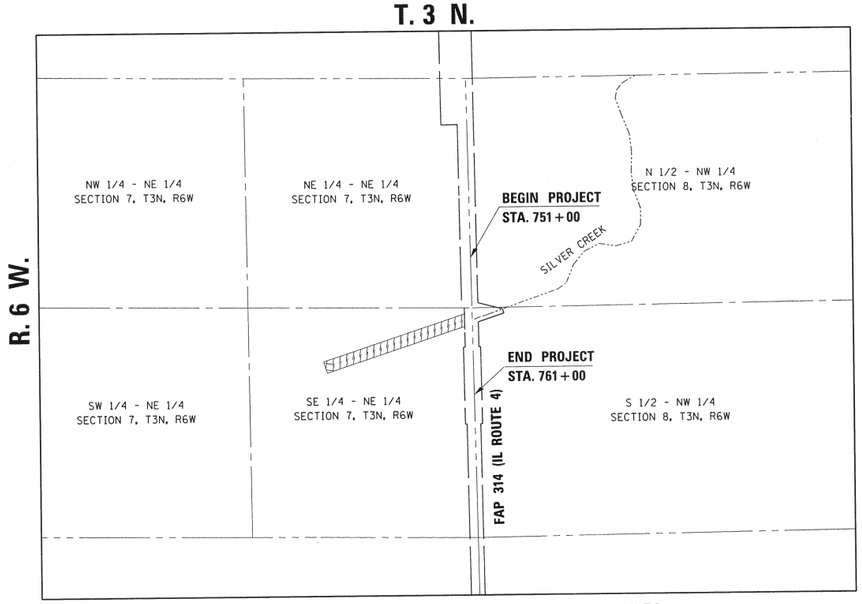
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

FAP ROUTE 314 (IL. ROUTE 4)
SECTION 110BR-1
MADISON COUNTY
JOB NO.
R-98-017-08

STATE OF ILLINOIS }ss
Madison County }
I, Matt Rice, Recorder within and for the County and State aforesaid, do hereby certify that the within instrument of writing was filed for record on the 16th day of August A.D. 20 11 at 2:45 o'clock P M. and duly recorded in Volume RR15 of Records on page 88 and examined.
J. Rem Becker
DEPUTY
SPACE RESERVED FOR RECORDING OFFICER

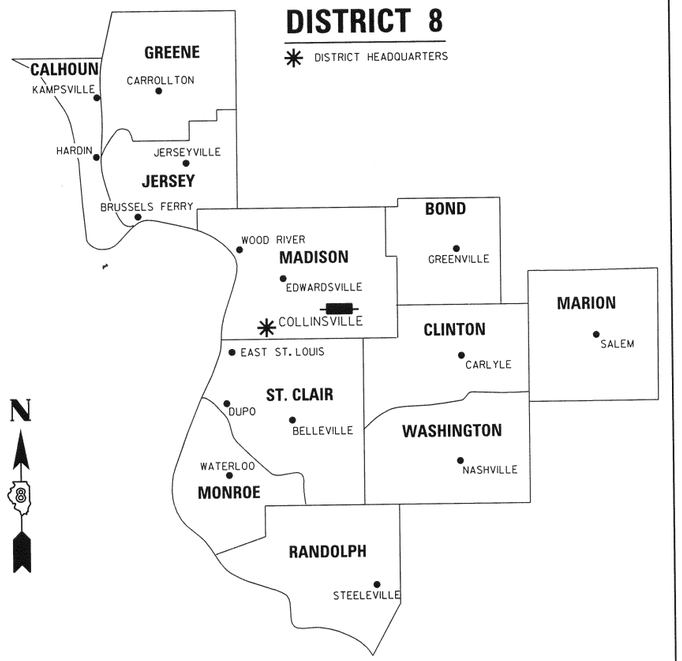
T. 3 N.



PROJECT LENGTH = 1,000 LIN. FT. = 0.1894 MILES

DISTRICT 8

✳ DISTRICT HEADQUARTERS



LOCATION OF SECTION INDICATED THUS: ▬

PREPARED BY:

ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

STATE OF ILLINOIS
GARY S. MUELLER
NO. 35-3332
PROFESSIONAL LAND SURVEYOR
NASHVILLE, ILLINOIS

Gary S Mueller 4-13-11
GARY S. MUELLER, IPLS # 3332
EXPIRATION DATE: 11-30-2012

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	32
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

#20111R30241

STATE OF ILLINOIS } SS:
Madison County
I, Mark Nice, recorder within and for the County and State aforesaid, do hereby certify that the within instrument of writing was filed for record on the 19th day of August A.D. 20 11 at 3:45 o'clock P. M. and duly recorded in Volume RR15 of Records on page 86 and examined.

RECORDER
By: J. Rina Becker
DEPUTY

SPACE RESERVED FOR RECORDING OFFICER

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL GULFBOX
- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL SIGNAL POST
- TRAFFIC SIGNAL STEEL MAST ARM
- TRAFFIC SIGNAL COMBINED MAST ARM
- TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL WOODEN POLE
- TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY
- TRAFFIC SIGNAL VEHICLE DETECTION MAGNET
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL HEAVY DUTY HANDHOLE
- RAILROAD CANTILEVER MAST ARM
- RAILROAD CROSSBUCK
- RAILROAD TRACK PATTERN
- RAILROAD ABANDON PATTERN
- RAILROAD CROSSGATE
- RAILROAD CONTROL BOX
- RAILROAD FLASHING SIGNAL
- TELEPHONE SPLICE BOX ABOVE GROUND
- UTILITY POWER POLE
- TELEPHONE POLE
- UTILITY TRAFFIC SIGNAL
- UTILITY LIGHT POLE
- FIRE HYDRANT
- UTILITY MANHOLE
- UTILITY TELEPHONE POLE
- UTILITY GUY POLE
- PIPELINE WARNING SIGN
- UTILITY HANDHOLE
- UTILITY SPLICE ABOVE GROUND
- UTILITY JUNCTION BOX
- UTILITY HEAVY DUTY HANDHOLE
- UTILITY DOUBLE HANDHOLE
- UTILITY CONTROLLER
- UTILITY WATER METER

- DRAINAGE FLOW LINE
- RIP RAP
- HEADWALL
- CULVERT END SECTION
- DRAINAGE MANHOLE
- INLET
- ROADWAY DITCH FLOW
- VEGETATION LINE
- STUMP
- SHRUB
- EVERGREEN TREE
- DECIDUOUS TREE
- WOODS/BUSH PATTERN
- TRAFFIC SIGN
- GAURDRAIL POST
- GAURDRAIL PATTERN
- FIELD LINE
- LEVEE/NOISE BARRIER
- FENCE PATTERN
- MAIL BOX
- ADVERTISING SIGN
- MARSH
- LIGHTING HANDHOLE
- LIGHTING POWER POLE
- LIGHTING JUNCTION BOX
- LIGHTING HEAVYDUTY HANDHOLE
- LIGHTING CONTROLLER
- LIGHTING PULL POINT
- HIGHWAY LIGHTING ELECTRICAL GROUND
- HIGHWAY LIGHTING SINGLE UNIT
- HIGHWAY LIGHTING DOUBLE UNIT
- EXISTING CONCRETE BARRIER
- EXISTING CREEK OR DITCH
- EXISTING EDGE OF PAVEMENT

LEGEND

SECTION CORNERS (T11N R8W 3rd P.M.: 10, 11, 15, 14)

QUARTER SECTION CORNERS (T11N R8W 3rd P.M.: 11, 14)

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- FORMER RIGHT OF WAY LINE
- EXISTING IDOT EASEMENT LINE
- EXISTING EASEMENT LINE
- AC — EXISTING ACCESS CONTROL LINE
- AC — EXISTING RIGHT OF WAY & PROPOSED ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- 121.45′ MEASURED DIMENSION
- (121.45′) RECORDED DIMENSION
- FOUND STONE (UNLESS OTHERWISE NOTED)
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- BRASS PLUG FOUND (SET BY OTHERS)
- IDOT SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS
- SAME OWNERSHIP
- EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	BOOK/PAGE	DATE RECORDED
8817011	675/336	8-29-1932
	702/153	1-22-1934
8817012	675/336	8-29-1932
8817013	702/153	1-22-1934
8817014	702/153	1-22-1934

LEGEND FOR ABREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
℄	CENTERLINE
CH	COUNTY HIGHWAY
Ch	CHAIN
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAUS	FEDERAL AID URBAN SECONDARY
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m	METER
m²	SQUARE METERS
N	NORTH
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT OF TANGENT
ℙ	PROPERTY LINE
PR	PROPOSED
RD	ROAD
ROW	RIGHT OF WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
TWP	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CB	CHORD BEARING
R	RADIUS OF CURVE
L	CURVE LENGTH
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
e	EXTERNAL
△	CENTRAL ANGLE

PREPARED BY:

ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

STATE OF ILLINOIS — GARY S. MUELLER — NO. 35-3332 — NASHVILLE, ILLINOIS — PROFESSIONAL LAND SURVEYOR

Gary S. Mueller 4-13-11

GARY S. MUELLER, IPLS # 3332
EXPIRATION DATE: 11-30-2012

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. NO ADDITION ITEMS WERE PHYSICALLY LOCATED IN THE FIELD BY THE SURVEYOR.

BASIS OF COORDINATE & BEARING STATEMENT

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 314 (IL ROUTE 4)
SECTION 110BR-1
MADISON COUNTY
JOB NO. R-98-017-08

50′ 0 50′ 100′
SCALE: 1″ = 50′ SHEET 2 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	33
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

PART OF THE E 1/2 OF NE 1/4 OF SECTION 7, AND PART OF THE W 1/2 NW 1/4 OF SECTION 8, ALL IN T3N, R6W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS #2011R30241

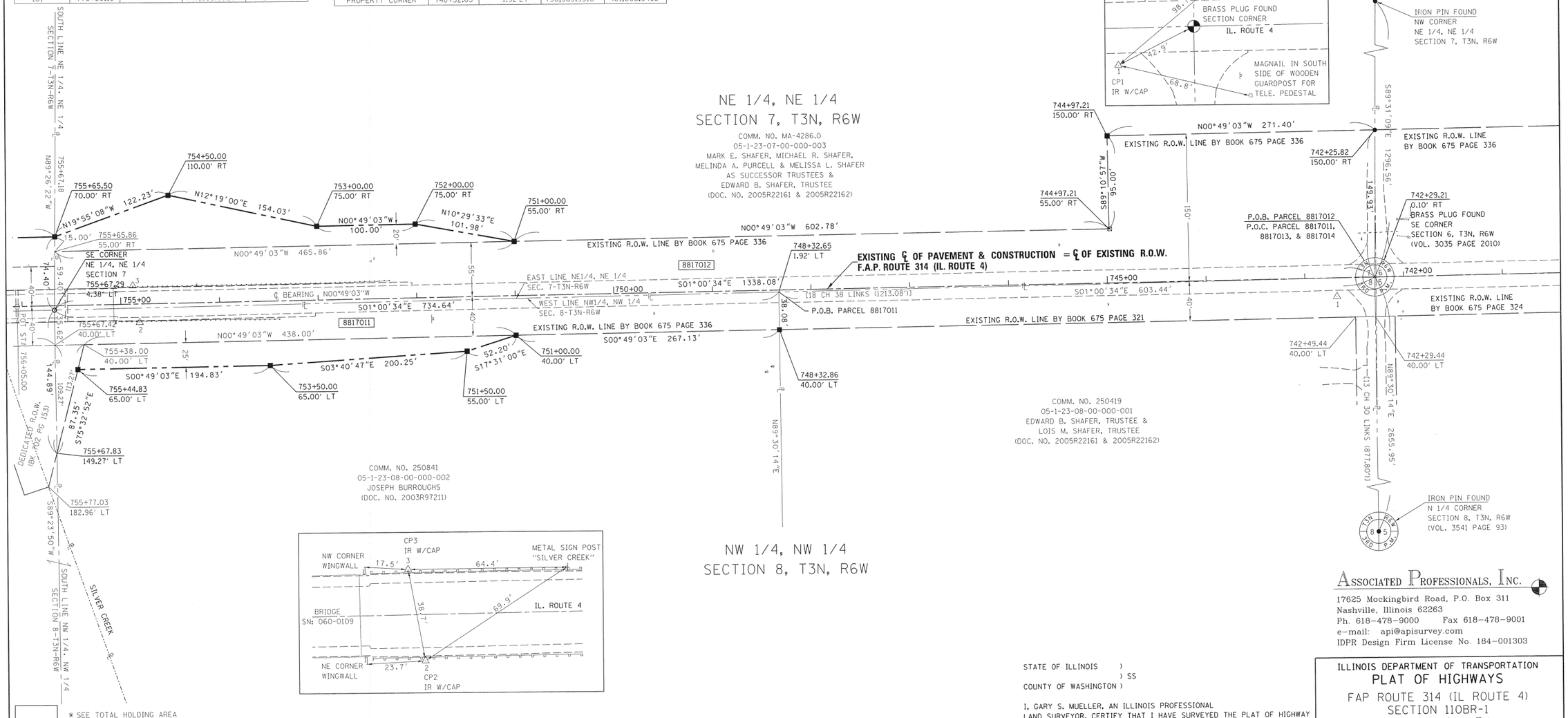
COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

I.D.O.T. PROVIDED CONTROL & ALIGNMENT				
POINT#/DESC.	STATION	OFFSET	NORTH	EAST
1	742+67.76	18.84' LT	751,071.0035	401,017.8065
2	754+81.23	18.74' LT	749,857.6550	401,035.0210
3	754+87.53	18.47' RT	749,850.8230	400,997.9070
4	757+27.99	18.87' LT	749,610.9290	401,038.6710
5	757+40.73	19.24' RT	749,597.6390	401,000.7500
6	764+05.90	40.42' RT	748,932.2412	400,989.0639
7	775+24.29	23.19' LT	747,814.8671	401,068.6209
100	737+90.40		751,548.0486	400,992.1633
102	756+05.00		749,733.6365	401,018.0502
101	776+80.19		747,658.6520	401,047.6548

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
PLUG FOUND	742+29.21	0.10'RT	751,109.2780	400,998.3190
IRF - N 1/4 SECT. 8			751,132.2690	403,654.1730
IRF - NW CORNER NE 1/4, NE 1/4			751,120.1580	399,701.8010
IRF	742+25.82	150.00'RT	751,110.5362	400,848.3902
EXIST. R.O.W. IR SET	744+97.21	150.00'RT	750,839.1669	400,852.2619
EXIST. R.O.W. IR SET	744+97.21	55.00'RT	750,840.5222	400,947.2522
IRS - 1/16 CORNER	755+67.29	4.38'LT	749,771.4018	401,021.8909
EXIST. R.O.W.	755+67.83	149.27'LT	749,772.9264	401,166.7724
EXIST. R.O.W. IR SET	748+32.86	40.00'LT	750,506.2613	401,047.0309
	755+67.42	40.00'LT	749,771.7766	401,057.5101
PROPERTY CORNER	748+32.65	1.92'LT	750,505.9316	401,008.9493

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
PROP. R.O.W. IR SET	751+00	40.00'LT	750,239.1557	401,050.8418
PROP. R.O.W. IR SET	751+50	55.00'LT	750,189.3748	401,066.5536
PROP. R.O.W. IR SET	753+50	65.00'LT	749,989.5378	401,079.4058
PROP. R.O.W. IR SET	755+44.83	65.00'LT	749,794.7271	401,082.1852
PROP. R.O.W. IR SET	751+00	55.00'RT	750,237.8004	400,955.8515
PROP. R.O.W. IR SET	752+00	75.00'RT	750,137.5253	400,937.2801
PROP. R.O.W. IR SET	753+00	75.00'RT	750,037.5355	400,938.7067
PROP. R.O.W. IR SET	754+50	110.00'RT	749,887.0514	400,905.8502
PROP. R.O.W. IR SET	755+65.50	70.00'RT	749,772.1298	400,947.4939
EXISTING R.O.W. CORNER	755+68.56	55.00'RT	749,771.9830	400,962.4975

STATE OF ILLINOIS, } SS:
Madison County
I, Patt Rice, Recorder within and for the County and State aforesaid, do hereby certify that the within instrument of writing was filed for record on the 19th day of August A.D. 20 11 at 3:45 o'clock P.M. and duly recorded in Volume RR15 of Records on page 88 and examined.
RECORDER
By: Dena Rucker DEPUTY
SPACE RESERVED FOR RECORDING OFFICER



* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION GROSS ACRES	GROSS SQ. FT.	PREVIOUSLY DEDICATED ACRES	PREVIOUSLY DEDICATED SQ. FT.	NET ACRES	NET SQ. FT.	REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY DOC. NO.
8817011	JOSEPH BURROUGHS TITLE COMM. NO. 250841	12.5000 [6]	0.8686	37,838	0.6583	28,678	0.2103	9,160	11.6314	05-1-23-08-00-000-002	2010R11845
8817012	MARK E. SHAFER, MICHEAL R. SHAFER, MELINDA A. PURCELL & MELISSA L. SHAFER AS SUCCESSOR-TRUSTEES • & EDWARD B. SHAFER, TRUSTEE •• TITLE COMM. NO. MA-4286.0	39.9459 [1]	2.6353	114,796	2.3444	102,126	0.2909	12,670	37.3106	05-1-23-07-00-000-003	2011R14000

• MARK E. SHAFER, MICHAEL R. SHAFER, MELINDA A. PURCELL AND MELISSA L. SHAFER AS SUCCESSOR TRUSTEES OF THE LOIS M. SHAFER REVOCABLE LIVING TRUS DATED DECEMBER 21, 2004, AS TO AN UNDIVIDED ONE-HALF INTEREST

•• EDWARD B. SHAFER, TRUSTEE OF THE EDWARD B. SHAFER REVOCABLE LIVING TRUST DATED DECEMBER 21, 2004, AS TO AN UNDIVIDED ONE-HALF INTEREST

ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/13/2011

GARY S. MUELLER, PLS NO. 3332
LICENSE EXPIRATION DATE: 11/30/2012

STATE OF ILLINOIS · GARY S. MUELLER · NO. 35-3332 · NASHVILLE, ILLINOIS · PROFESSIONAL LAND SURVEYOR

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 1/14/2009	ROW STAKING: 7/1/2009

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 314 (IL ROUTE 4)
SECTION 110BR-1
MADISON COUNTY
JOB NO. R-98-017-08
STATION 742+00 TO STATION 755+67
50' 0 50' 100'
SCALE: 1" = 50' SHEET 3 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	34
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

PART OF THE E 1/2 OF NE 1/4 OF SECTION 7, AND PART OF THE W 1/2 NW 1/4 OF SECTION 8, ALL IN T3N, R6W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS #2011R30241

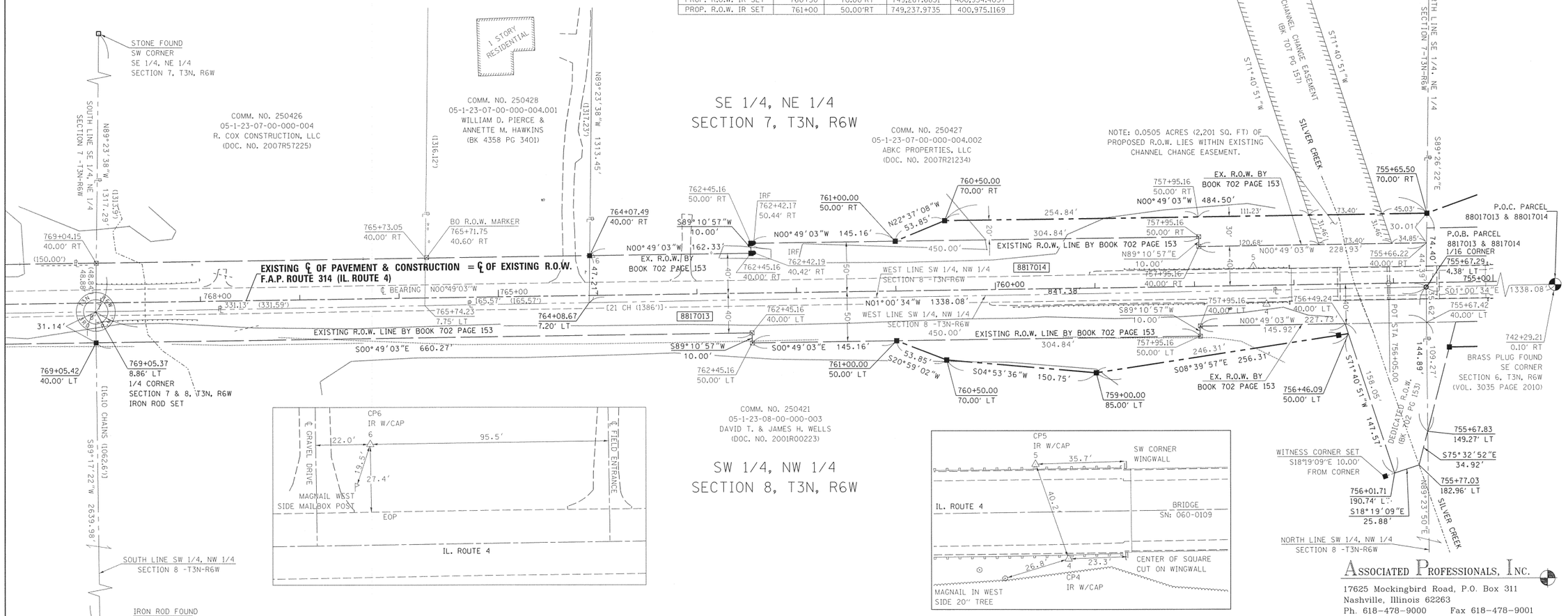
COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

I.D.O.T. PROVIDED CONTROL & ALIGNMENT				
POINT#/DESC.	STATION	OFFSET	NORTH	EAST
1	742+67.76	18.84' LT	751,071.0035	401,017.8065
2	754+81.23	18.74' LT	749,857.6550	401,035.0210
3	754+87.53	18.47' RT	749,850.8230	400,997.9070
4	757+27.99	18.87' LT	749,610.9290	401,038.6710
5	757+40.73	19.24' RT	749,597.6390	401,000.7500
6	764+05.90	40.42' RT	748,932.2412	400,989.0639
7	775+24.29	23.19' LT	747,814.8671	401,068.6209
100	737+90.40		751,548.0486	400,992.1633
102	756+05.00		749,733.6365	401,018.0502
101	776+80.19		747,658.6520	401,047.6548

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
BROKEN R.O.W. MARKER	757+95.16	40.00'RT	749,542.9251	400,980.7671
BROKEN R.O.W. MARKER	757+95.16	50.00'RT	749,542.7824	400,970.7681
EXIST. R.O.W. IR SET	762+45.16	50.00'RT	749,092.8282	400,977.1878
EXIST. R.O.W. IR SET	762+45.16	40.00'RT	749,092.9709	400,987.1868
R.O.W. MARKER	762+45.16	40.00'LT	749,094.1122	401,067.1786
BROKEN R.O.W. MARKER	762+45.16	50.00'LT	749,094.2548	401,077.1776
R.O.W. MARKER	757+95.16	50.00'LT	749,544.2090	401,070.7579
BROKEN R.O.W. MARKER	757+95.16	40.00'LT	749,544.0664	401,060.7589
IRS 1/16 CORNER	755+67.29	4.38'LT	749,771.4018	401,021.8909
IRS 1/4 CORNER	769+05.37	8.86'LT	748,433.5257	401,045.4629
PROPERTY CORNER	764+08.67	7.20'LT	748,930.1519	401,036.7129
EXIST. R.O.W. IR SET	764+07.49	40.00'RT	748,930.6514	400,989.5026

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
EXIST. R.O.W. IR SET	756+01.71	190.74'LT	749,739.6455	401,208.7214
EXIST. R.O.W. IR SET	769+05.42	40.00'LT	748,433.9118	401,076.5979
BROKEN R.O.W. MARKER	769+04.15	40.00'RT	748,434.0428	400,996.5879
EXISTING R.O.W.	755+67.83	149.72'LT	749,772.9264	401,166.7724
EXISTING R.O.W.	755+77.03	182.96'LT	749,764.2111	401,200.5880
BROKEN R.O.W. MARKER	765+71.75	40.60'RT	748,766.4000	400,991.2480
IRF	762+42.17	50.44'RT	749,095.8110	400,976.7030
IRF	762+42.19	40.42'RT	749,095.9290	400,986.7230
PROP. R.O.W. IR SET	756+46.09	50.00'LT	749,772.1298	400,947.4939
PROP. R.O.W. IR SET	759+00	85.00'LT	749,439.8791	401,107.2500
PROP. R.O.W. IR SET	760+50	70.00'LT	749,289.6804	401,094.3914
PROP. R.O.W. IR SET	761+00	50.00'LT	749,239.4001	401,075.1067
PROP. R.O.W. IR SET	755+65.50	70.00'LT	749,772.1298	400,947.4939
PROP. R.O.W. IR SET	760+50	70.00'RT	749,287.6831	400,954.4057
PROP. R.O.W. IR SET	761+00	50.00'RT	749,237.9735	400,975.1169

Madison County } SS:
I, Matt Rice, Recorder within and for the County and State aforesaid, do hereby certify that the within instrument of writing was filed for record on the 14th day of August A.D. 20 11, at 3:45 o'clock P.M. and duly recorded in Volume RR15 of Records on page 86 and examined.
RECORDER
By: Pam Becker DEPUTY
SPACE RESERVED FOR RECORDING OFFICER



∗ SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION GROSS ACRES	GROSS SQ. FT.	PREVIOUSLY DEDICATED ACRES	PREVIOUSLY DEDICATED SQ. FT.	NET ACRES	NET SQ. FT.	REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY DOC.NO.
8817013	DAVID T. WELLS & JAMES H. WELLS, EACH AS TO AN UNDIVIDED 1/2 INTEREST TITLE COMM. NO. 250421	123.3100 [6]	1.5632	68,094	1.3211	57,551	0.2421	10,543	121.7468	05-1-23-08-00-000-003	2010R18108
8817014	ABKC PROPERTIES, LLC TITLE COMM. NO. 250427	25.2815 [1]	1.2740	55,497	0.9876	43,021	0.2864•	12,476•	24.0075	05-1-23-07-00-000-004.002	2010R18109

• 0.0505 ACRES (2,201 SQ. FT.) OF PROPOSED R.O.W. LIES WITHIN THE EXISTING CHANNEL CHANGE EASEMENT.

ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/13/2011
GARY S. MUELLER, PLS NO. 3332
LICENSE EXPIRATION DATE: 11/30/2012

STATE OF ILLINOIS GARY S. MUELLER NO. 35-3332 NASHVILLE, ILLINOIS PROFESSIONAL LAND SURVEYOR

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 1/14/2009	ROW STAKING: 7/1/2009

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 314 (IL ROUTE 4)
SECTION 110BR-1
MADISON COUNTY
JOB NO. R-98-017-08
STATION 755+67 TO STATION 769+05

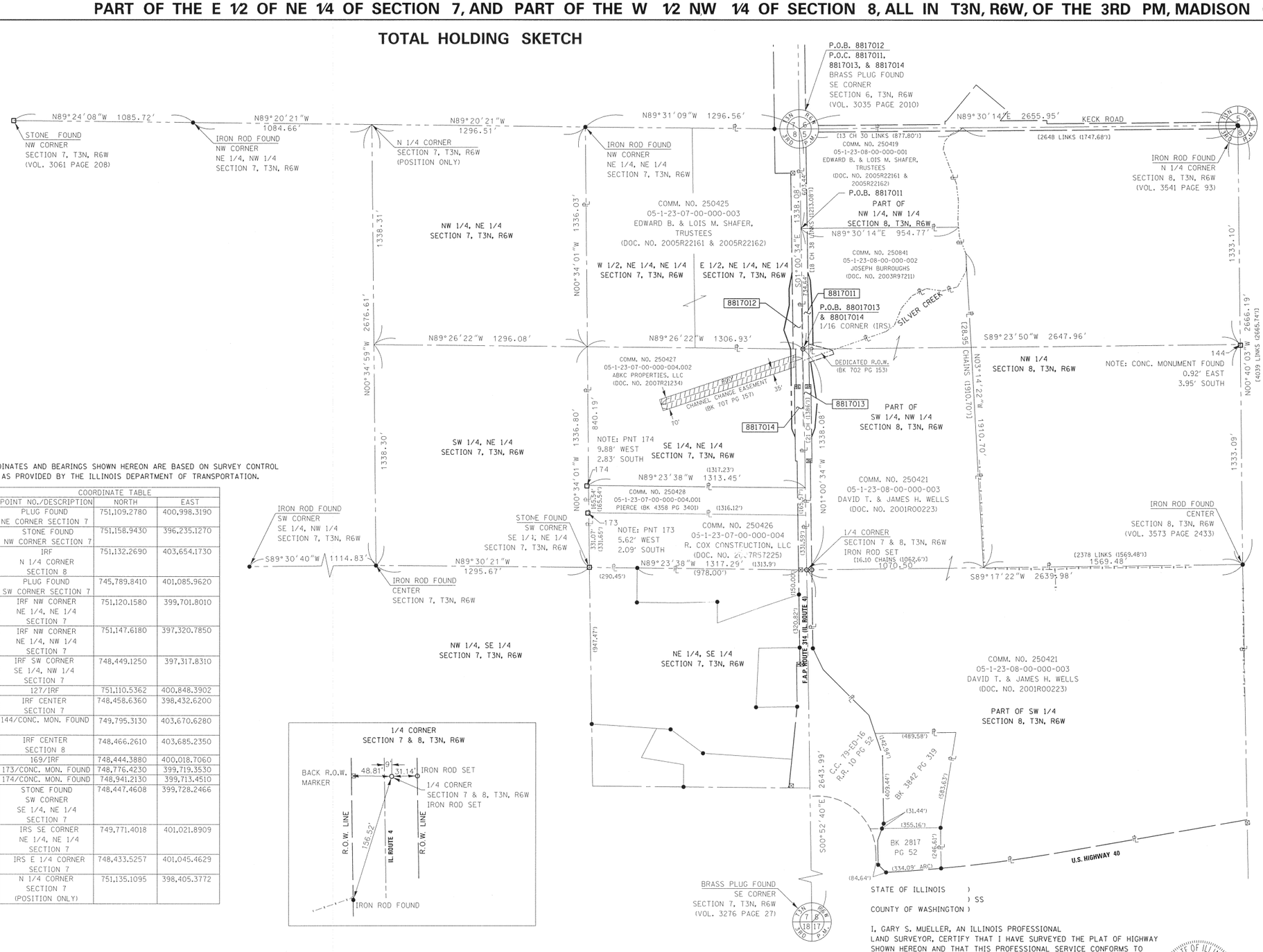
50' 0 50' 100'
SCALE: 1" = 50' SHEET 4 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	35
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

PART OF THE E 1/2 OF NE 1/4 OF SECTION 7, AND PART OF THE W 1/2 NW 1/4 OF SECTION 8, ALL IN T3N, R6W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS #2011R30241

TOTAL HOLDING SKETCH



COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COORDINATE TABLE		
POINT NO./DESCRIPTION	NORTH	EAST
PLUG FOUND NE CORNER SECTION 7	751,109.2780	400,998.3190
STONE FOUND NW CORNER SECTION 7	751,158.9430	396,235.1270
IRF N 1/4 CORNER SECTION 8	751,132.2690	403,654.1730
PLUG FOUND SW CORNER SECTION 7	745,789.8410	401,085.9620
IRF NW CORNER NE 1/4, NE 1/4 SECTION 7	751,120.1580	399,701.8010
IRF NW CORNER NE 1/4, NW 1/4 SECTION 7	751,147.6180	397,320.7850
IRF SW CORNER SE 1/4, NW 1/4 SECTION 7	748,449.1250	397,317.8310
127/IRF	751,110.5362	400,848.3902
IRF CENTER SECTION 7	748,458.6360	398,432.6200
144/CONC. MON. FOUND	749,795.3130	403,670.6280
IRF CENTER SECTION 8	748,466.2610	403,685.2350
169/IRF	748,444.3880	400,018.7060
173/CONC. MON. FOUND	748,776.4230	399,719.3530
174/CONC. MON. FOUND	748,941.2130	399,713.4510
STONE FOUND SW CORNER SE 1/4, NE 1/4 SECTION 7	748,447.4608	399,728.2466
IRS SE CORNER NE 1/4, NE 1/4 SECTION 7	749,771.4018	401,021.8909
IRS E 1/4 CORNER SECTION 7	748,433.5257	401,045.4629
N 1/4 CORNER SECTION 7 (POSITION ONLY)	751,135.1095	398,405.3772

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/13/2011

GARY S. MUELLER, PLS NO. 3332
LICENSE EXPIRATION DATE: 11/30/2012

STATE OF ILLINOIS
GARY S. MUELLER
NO. 35-3332
NASHVILLE, ILLINOIS
PROFESSIONAL LAND SURVEYOR

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	1/14/2009	ROW STAKING:	7/1/2009

ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 314 (IL ROUTE 4)
SECTION 110BR-1
MADISON COUNTY
JOB NO. R-98-017-08

TOTAL HOLDING

300' 0 300' 600'
SCALE: 1" = 300'
SHEET 5 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	36
			CONTRACT NO. 76B50	
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

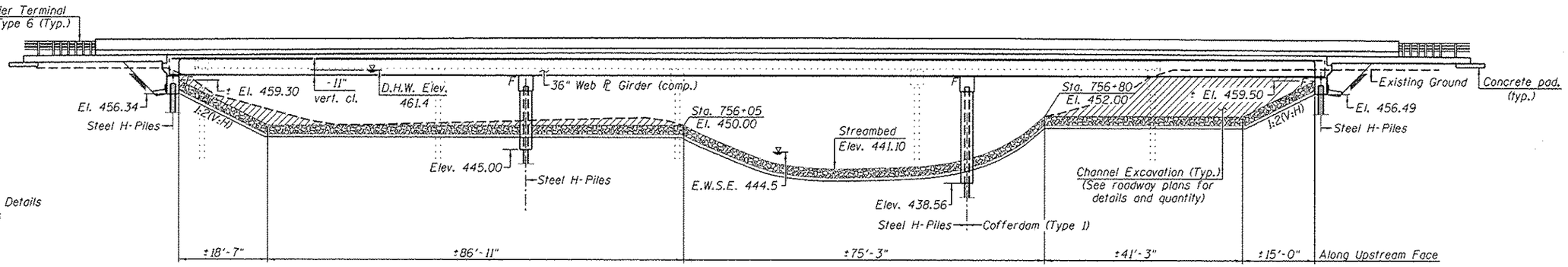
ROUTE IL 4 CONSTRUCTION SECTION 110BR-1 MADISON COUNTY JOB = R-98-017-08

PART OF SEC. 7 & 8, T. 3 N., R. 6 W. OF THE 3RD P.M.

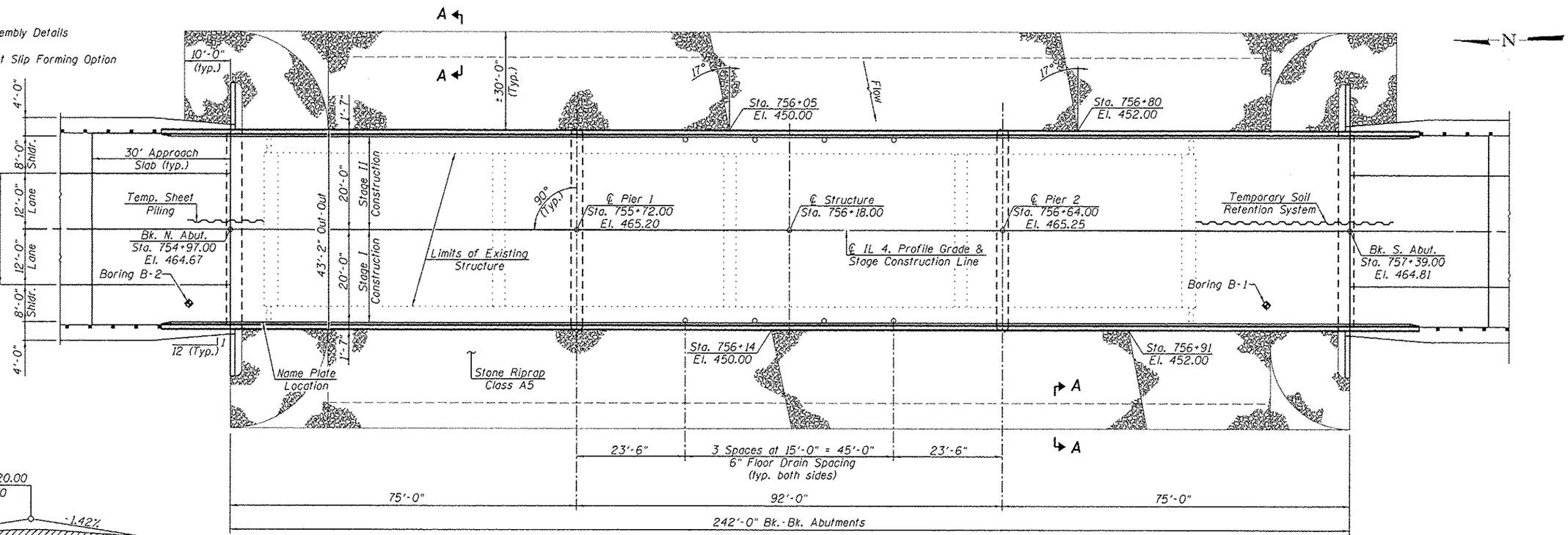
Bench Mark: Chisled " □ " on the southeast wingwall of existing bridge over East Fork of Silver Creek
S.N. 060-0109 17' Lt. of Sta. 757+04 El. = 462.37

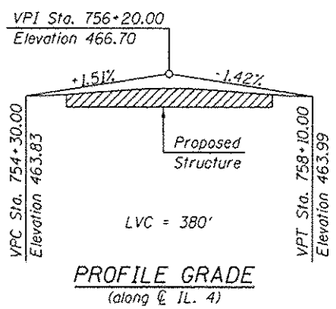
Existing Structure: Section 110BR at Sta. 756+05. Existing structure is a four span PPC Deck Beam Bridge S.N. 060-0109 was constructed in 1933, reconstructed in 1975 as FA Rte. 68, on open concrete abutments and pile bent piers. The out to out width is 33'-0" and the bk. to bk. of abutment length is 201'-4 3/4". The structure has a 0° skew. The Contractor shall remove and replace the existing structure. Staged construction shall be utilized to maintain one lane of traffic during construction.
No Salvage

INDEX OF SHEETS

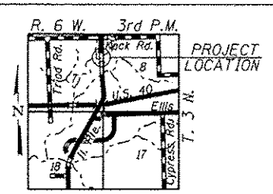


ELEVATION



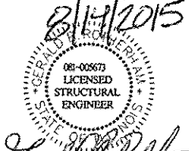


PROFILE GRADE
(along ℄ IL. 4)



LOCATION SKETCH

PLAN
2/19/2015



EXPIRES 11/30/16

Note: See Sheet 2 of 25 for Section A-A

APPROVED
For Structural Adequacy Only

Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 4 OVER
EAST FORK OF SILVER CREEK
F.A.P. RTE 314 SEC. 110BR-1
MADISON COUNTY
STA. 756+18.00
STRUCTURE NO. 060-0344

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

GENERAL PLAN & ELEVATION
STRUCTURE NO. 060-0344
SHEET NO. 1 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	37
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

Fasteners shall be AASHTO A325 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$" ϕ, holes $^{15}/_{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 256800 lbs

No field welding is permitted except as specified in the 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.

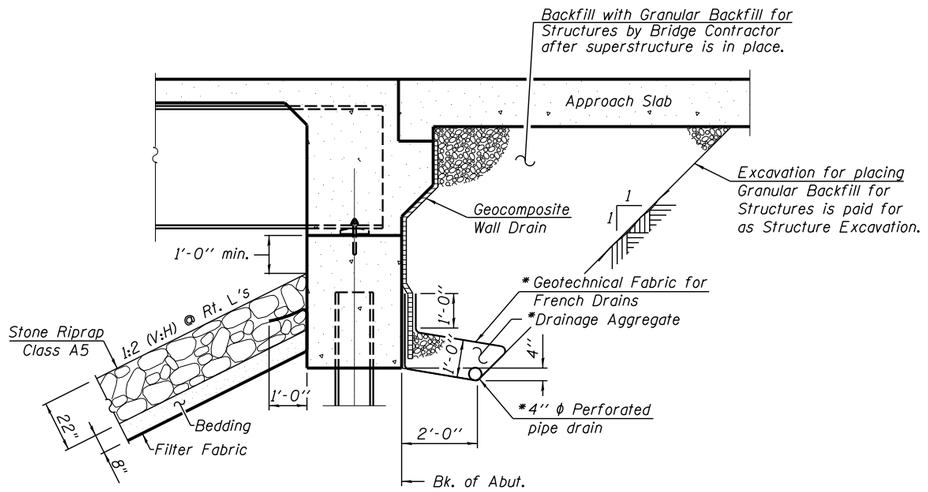
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $^{1}/_{8}$" (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1.

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

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 Superstructures.



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		172	172
Stone Riprap, Class A5	Sq. Yd.		2912	2912
Filter Fabric	Sq. Yd.		2912	2912
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		128	128
Floor Drains	Each	8		8
Concrete Structures	Cu. Yd.		191.2	191.2
Concrete Superstructure	Cu. Yd.	482.6		482.6
Bridge Deck Grooving	Sq. Yd.	1275		1275
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	1572		1572
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4734		4734
Reinforcement Bars, Epoxy Coated	Pound	117720	17640	135360
Bar Splicers	Each	1013	116	1129
Furnishing Steel Piles HP 12 x 63	Foot		1080	1080
Furnishing Steel Piles HP 14 x 89	Foot		1260	1260
Driving Piles	Foot		2340	2340
Test Pile Steel HP 14 x 89	Each		2	2
Temporary Sheet Piling	Sq. Ft.		266	266
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		48	48
Geocomposite Wall Drain	Sq. Yd.		86	86
Pipe Underdrain for Structures 4"	Foot		159	159
Temporary Soil Retention System	Sq. Ft.		410	410
Cofferdam (Type 1)	Each		1	1
Cofferdam Excavation	Cu. Yd.		85	85
Asbestos Bearing Pad Removal	Each	88		88

LOADING HL93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1})= 0.24g
Design Spectral Acceleration at 0.2 sec. (S_{DS})= 0.56g
Soil Site Class = D

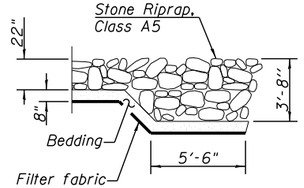
STATION 756+18.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 314 SEC. 110BR-1
LOADING HL93
STR. NO. 060-0344

NAME PLATE

See Std. 515001

* Included in the cost of Pipe Underdrains for Structures 4".

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



SECTION A-A

WATERWAY INFORMATION

Drainage Area = 90.13 Sq. Mi. — Pr. Low Grade Elev. 462.29 @ Sta. 748+76

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head - ft. Exist.	Head - ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	12740	1782	2411	461.43	1.39	1.25	462.82	462.68
Base	100	15400	1782	2411	462.43	0.91	0.68	463.34	463.11
Overtopping	*35/36	*12100/12200	1782	2411	*460.99/461.01	1.30	1.28	462.29	462.29
Max. Calc.	500								
Scour	10	7120	1435	1978	458.40	1.01	0.91	459.41	459.31

* Existing / Proposed

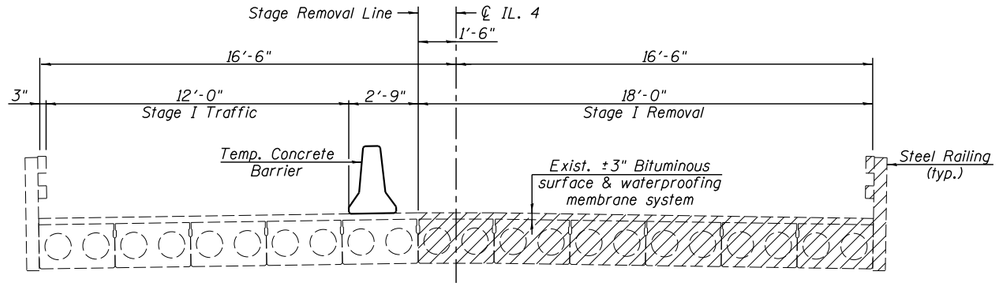
Design Scour Elevation (Feet)	N. Abut.	Pier 1	Pier 2	S. Abut.
	456.8	426.0	417.0	457.0

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

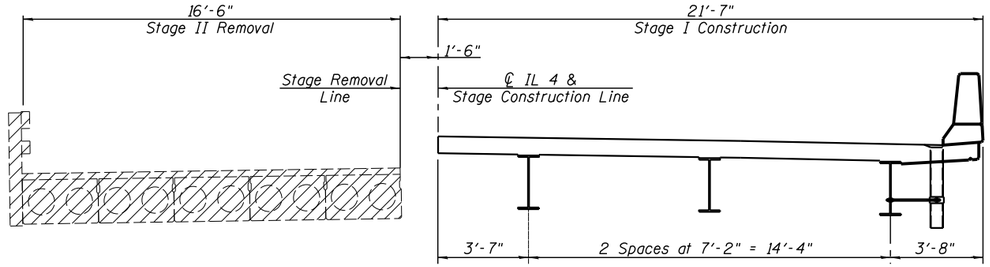
GENERAL DATA
STRUCTURE NO. 060-0344
SHEET NO. 2 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	38
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



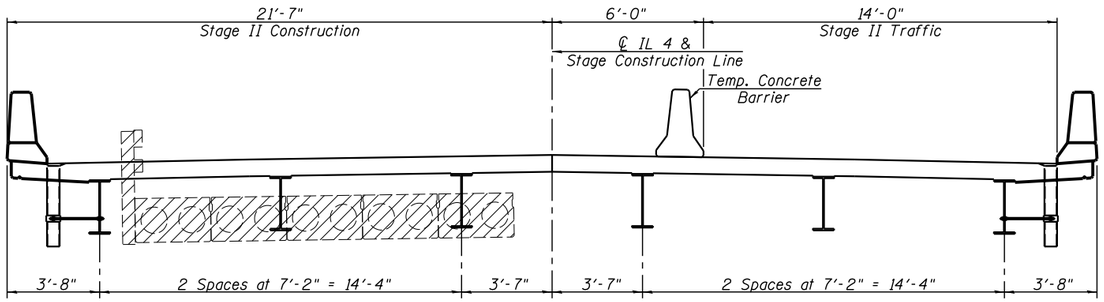
STAGE I REMOVAL & STAGE I TRAFFIC

(Looking South)



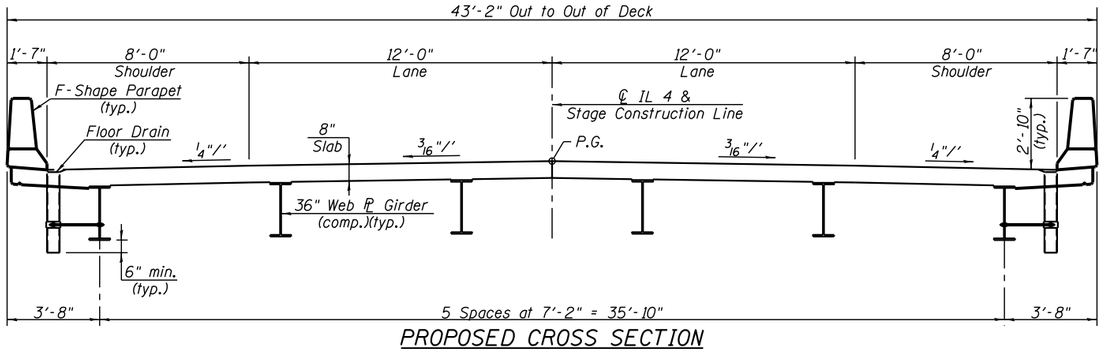
STAGE I CONSTRUCTION & STAGE II REMOVAL

(Looking South)



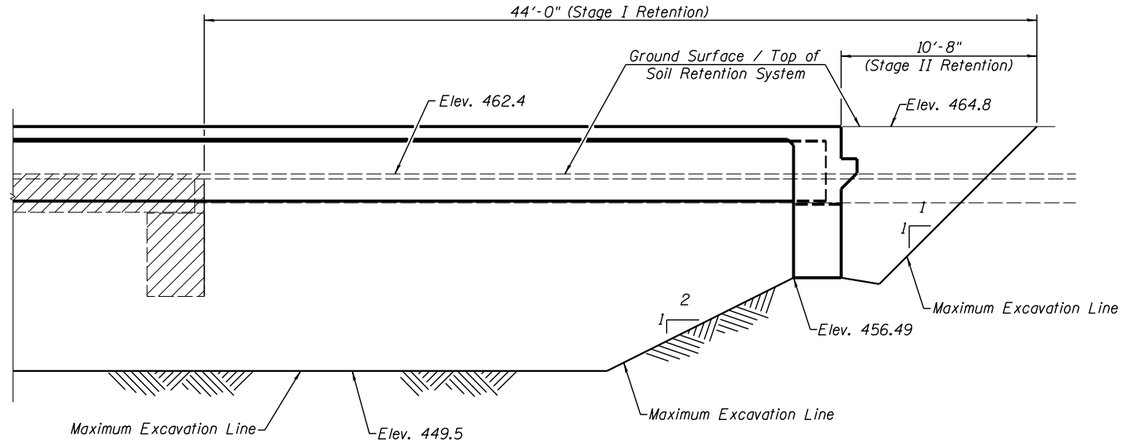
STAGE II CONSTRUCTION & STAGE II TRAFFIC

(Looking South)



PROPOSED CROSS SECTION

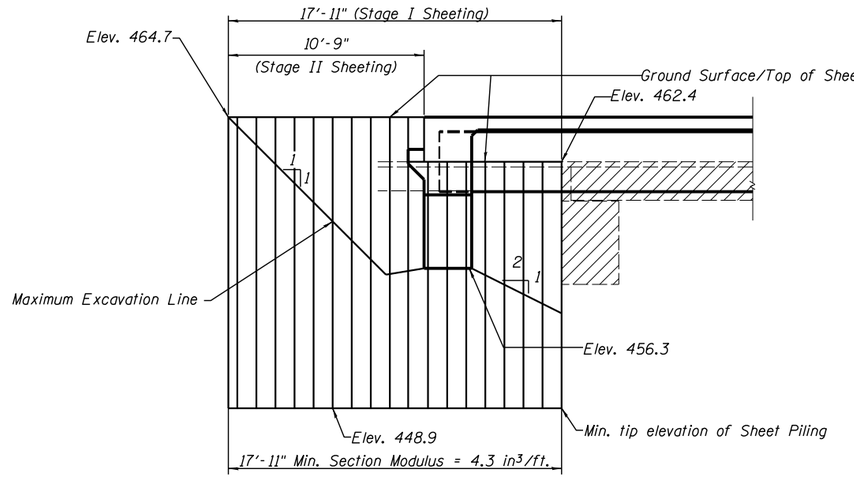
(Looking South)



TEMPORARY SOIL RETENTION SYSTEM - SOUTH ABUTMENT

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 system design including plan details and calculations for review and acceptance by the Engineer.

▨ - Indicates Limits of Removal of Existing Structure



TEMPORARY SHEET PILING DETAIL - NORTH ABUTMENT

If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

▨ - Indicates Limits of Removal of Existing Structure

Notes:

Hatched areas indicate Limits of Removal of Existing Structures.
For quantity of Temporary Concrete Barrier see Roadway Plans.
For details of Temporary Concrete Barrier see Sheet 4 of 25.
Cost of removing existing steel railing, bituminous surface & waterproofing membrane system is included in the cost of Removal of Exising Structures.

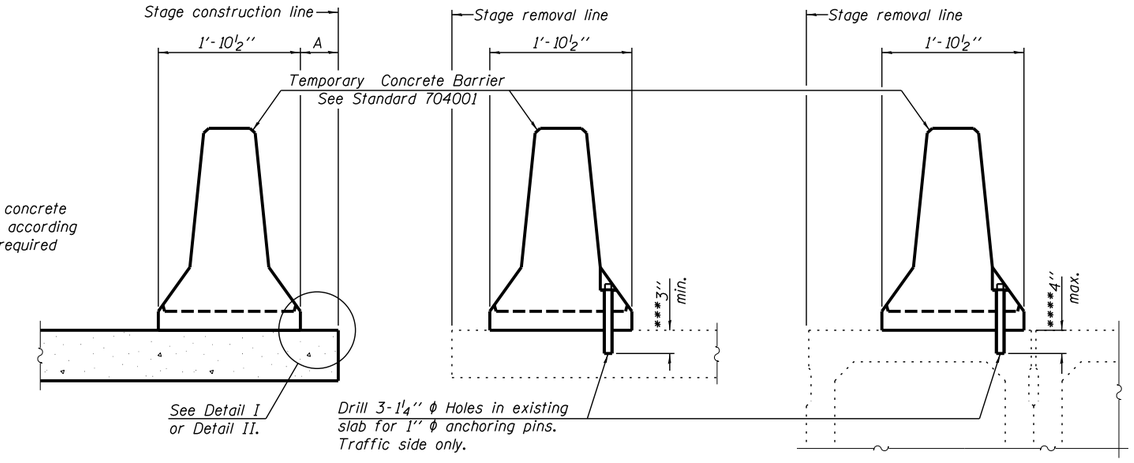
FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 3 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	39
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	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''.



NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel ℙ 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 ℙ 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.

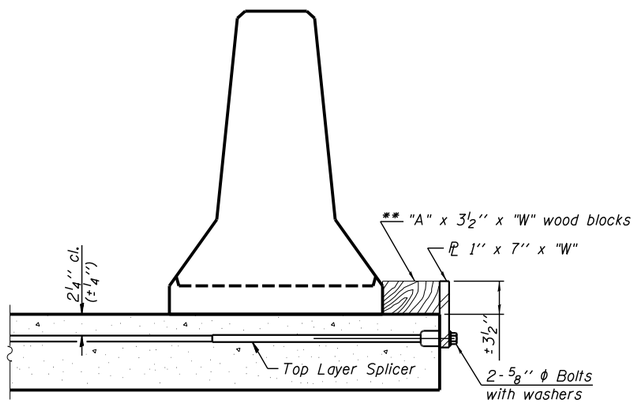
Cost of retainer assembly is included with Temporary Concrete Barrier.

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.

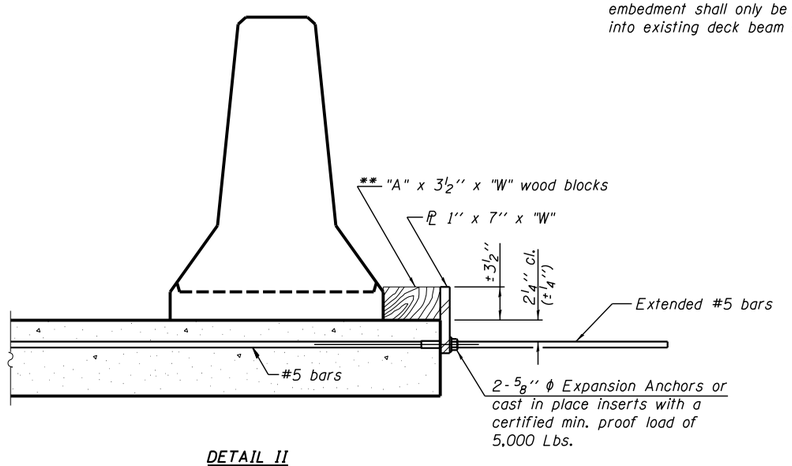
SECTIONS THRU SLAB OR DECK BEAM

*** 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.

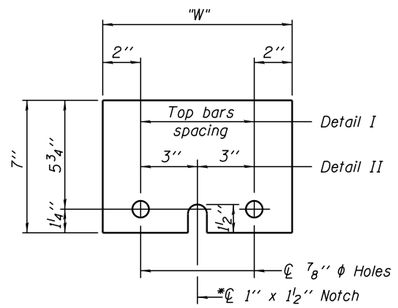
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 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

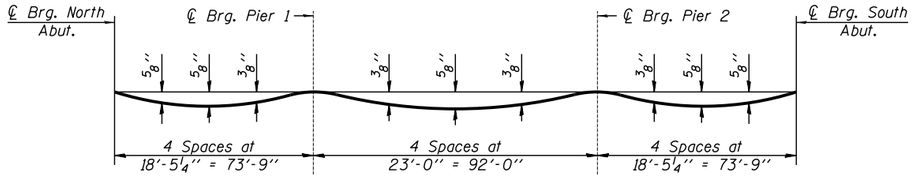
1-12-15

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 060-0344
SHEET NO. 4 OF 25 SHEETS

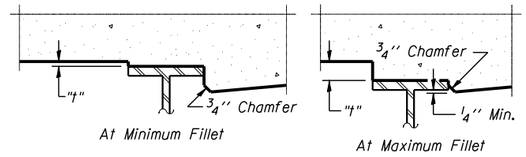
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	40
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



DEAD LOAD DEFLECTION DIAGRAM

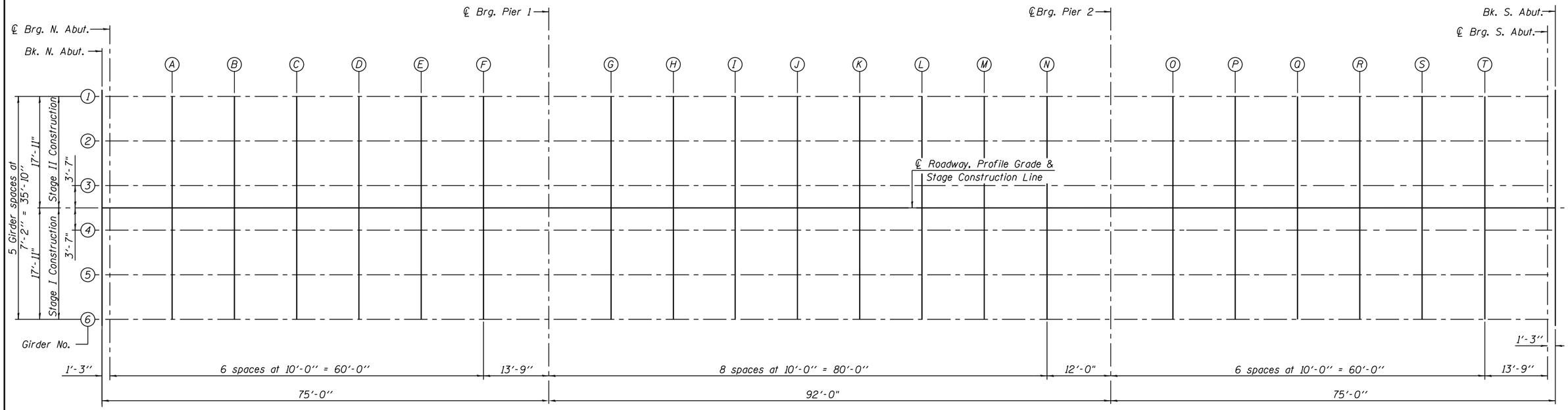
(Includes weight of concrete only)

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 sheets 6 and 7 of 25.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 6 & 7 of 25, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS



PLAN

N

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0344
SHEET NO. 5 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	41
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	-17.92	464.36	464.36
℄ Brg. N. Abut.	754+98.25	-17.92	464.37	464.37
A	755+08.25	-17.92	464.47	464.50
B	755+18.25	-17.92	464.55	464.60
C	755+28.25	-17.92	464.63	464.69
D	755+38.25	-17.92	464.70	464.76
E	755+48.25	-17.92	464.77	464.81
F	755+58.25	-17.92	464.82	464.84
℄ Brg. Pier 1	755+72.00	-17.92	464.89	464.89
G	755+82.00	-17.92	464.92	464.93
H	755+92.00	-17.92	464.95	464.97
I	756+02.00	-17.92	464.98	465.02
J	756+12.00	-17.92	464.99	465.04
K	756+22.00	-17.92	465.00	465.05
L	756+32.00	-17.92	465.00	465.04
M	756+42.00	-17.92	464.99	465.01
N	756+52.00	-17.92	464.97	464.98
℄ Brg. Pier 2	756+64.00	-17.92	464.94	464.94
O	756+74.00	-17.92	464.91	464.93
P	756+84.00	-17.92	464.87	464.91
Q	756+94.00	-17.92	464.82	464.88
R	757+04.00	-17.92	464.76	464.82
S	757+14.00	-17.92	464.70	464.75
T	757+24.00	-17.92	464.63	464.66
℄ Brg. S. Abut.	757+37.75	-17.92	464.52	464.52
Bk. S. Abut.	757+39.00	-17.92	464.50	464.50

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	-10.75	464.50	464.50
℄ Brg. N. Abut.	754+98.25	-10.75	464.51	464.51
A	755+08.25	-10.75	464.61	464.64
B	755+18.25	-10.75	464.69	464.74
C	755+28.25	-10.75	464.77	464.83
D	755+38.25	-10.75	464.84	464.90
E	755+48.25	-10.75	464.91	464.95
F	755+58.25	-10.75	464.96	464.98
℄ Brg. Pier 1	755+72.00	-10.75	465.03	465.03
G	755+82.00	-10.75	465.06	465.07
H	755+92.00	-10.75	465.09	465.11
I	756+02.00	-10.75	465.12	465.16
J	756+12.00	-10.75	465.13	465.18
K	756+22.00	-10.75	465.14	465.19
L	756+32.00	-10.75	465.14	465.18
M	756+42.00	-10.75	465.13	465.15
N	756+52.00	-10.75	465.11	465.12
℄ Brg. Pier 2	756+64.00	-10.75	465.08	465.08
O	756+74.00	-10.75	465.05	465.07
P	756+84.00	-10.75	465.01	465.05
Q	756+94.00	-10.75	464.96	465.02
R	757+04.00	-10.75	464.90	464.96
S	757+14.00	-10.75	464.84	464.89
T	757+24.00	-10.75	464.77	464.80
℄ Brg. S. Abut.	757+37.75	-10.75	464.66	464.66
Bk. S. Abut.	757+39.00	-10.75	464.64	464.64

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	-3.58	464.61	464.61
℄ Brg. N. Abut.	754+98.25	-3.58	464.62	464.62
A	755+08.25	-3.58	464.72	464.75
B	755+18.25	-3.58	464.80	464.85
C	755+28.25	-3.58	464.88	464.94
D	755+38.25	-3.58	464.95	465.01
E	755+48.25	-3.58	465.02	465.06
F	755+58.25	-3.58	465.07	465.09
℄ Brg. Pier 1	755+72.00	-3.58	465.14	465.14
G	755+82.00	-3.58	465.17	465.18
H	755+92.00	-3.58	465.20	465.22
I	756+02.00	-3.58	465.23	465.27
J	756+12.00	-3.58	465.24	465.29
K	756+22.00	-3.58	465.25	465.30
L	756+32.00	-3.58	465.25	465.29
M	756+42.00	-3.58	465.24	465.26
N	756+52.00	-3.58	465.22	465.23
℄ Brg. Pier 2	756+64.00	-3.58	465.19	465.19
O	756+74.00	-3.58	465.16	465.18
P	756+84.00	-3.58	465.12	465.16
Q	756+94.00	-3.58	465.07	465.13
R	757+04.00	-3.58	465.01	465.07
S	757+14.00	-3.58	464.95	465.00
T	757+24.00	-3.58	464.88	464.91
℄ Brg. S. Abut.	757+37.75	-3.58	464.77	464.77
Bk. S. Abut.	757+39.00	-3.58	464.75	464.75

℄ ROADWAY, P.G. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	0.00	464.67	464.67
℄ Brg. N. Abut.	754+98.25	0.00	464.68	464.68
A	755+08.25	0.00	464.78	464.81
B	755+18.25	0.00	464.86	464.91
C	755+28.25	0.00	464.94	465.00
D	755+38.25	0.00	465.01	465.07
E	755+48.25	0.00	465.08	465.12
F	755+58.25	0.00	465.13	465.15
℄ Brg. Pier 1	755+72.00	0.00	465.20	465.20
G	755+82.00	0.00	465.23	465.24
H	755+92.00	0.00	465.26	465.28
I	756+02.00	0.00	465.29	465.33
J	756+12.00	0.00	465.30	465.35
K	756+22.00	0.00	465.31	465.36
L	756+32.00	0.00	465.31	465.35
M	756+42.00	0.00	465.30	465.32
N	756+52.00	0.00	465.28	465.29
℄ Brg. Pier 2	756+64.00	0.00	465.25	465.25
O	756+74.00	0.00	465.22	465.24
P	756+84.00	0.00	465.18	465.22
Q	756+94.00	0.00	465.13	465.19
R	757+04.00	0.00	465.07	465.13
S	757+14.00	0.00	465.01	465.06
T	757+24.00	0.00	464.94	464.97
℄ Brg. S. Abut.	757+37.75	0.00	464.83	464.83
Bk. S. Abut.	757+39.00	0.00	464.81	464.81

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0344

SHEET NO. 6 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	42
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	3.58	464.61	464.61
℄ Brg. N. Abut.	754+98.25	3.58	464.62	464.62
A	755+08.25	3.58	464.72	464.75
B	755+18.25	3.58	464.80	464.85
C	755+28.25	3.58	464.88	464.94
D	755+38.25	3.58	464.95	465.01
E	755+48.25	3.58	465.02	465.06
F	755+58.25	3.58	465.07	465.09
℄ Brg. Pier 1	755+72.00	3.58	465.14	465.14
G	755+82.00	3.58	465.17	465.18
H	755+92.00	3.58	465.20	465.22
I	756+02.00	3.58	465.23	465.27
J	756+12.00	3.58	465.24	465.29
K	756+22.00	3.58	465.25	465.30
L	756+32.00	3.58	465.25	465.29
M	756+42.00	3.58	465.24	465.26
N	756+52.00	3.58	465.22	465.23
℄ Brg. Pier 2	756+64.00	3.58	465.19	465.19
O	756+74.00	3.58	465.16	465.18
P	756+84.00	3.58	465.12	465.16
Q	756+94.00	3.58	465.07	465.13
R	757+04.00	3.58	465.01	465.07
S	757+14.00	3.58	464.95	465.00
T	757+24.00	3.58	464.88	464.91
℄ Brg. S. Abut.	757+37.75	3.58	464.77	464.77
Bk. S. Abut.	757+39.00	3.58	464.75	464.75

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	10.75	464.50	464.50
℄ Brg. N. Abut.	754+98.25	10.75	464.51	464.51
A	755+08.25	10.75	464.61	464.64
B	755+18.25	10.75	464.69	464.74
C	755+28.25	10.75	464.77	464.83
D	755+38.25	10.75	464.84	464.90
E	755+48.25	10.75	464.91	464.95
F	755+58.25	10.75	464.96	464.98
℄ Brg. Pier 1	755+72.00	10.75	465.03	465.03
G	755+82.00	10.75	465.06	465.07
H	755+92.00	10.75	465.09	465.11
I	756+02.00	10.75	465.12	465.16
J	756+12.00	10.75	465.13	465.18
K	756+22.00	10.75	465.14	465.19
L	756+32.00	10.75	465.14	465.18
M	756+42.00	10.75	465.13	465.15
N	756+52.00	10.75	465.11	465.12
℄ Brg. Pier 2	756+64.00	10.75	465.08	465.08
O	756+74.00	10.75	465.05	465.07
P	756+84.00	10.75	465.01	465.05
Q	756+94.00	10.75	464.96	465.02
R	757+04.00	10.75	464.90	464.96
S	757+14.00	10.75	464.84	464.89
T	757+24.00	10.75	464.77	464.80
℄ Brg. S. Abut.	757+37.75	10.75	464.66	464.66
Bk. S. Abut.	757+39.00	10.75	464.64	464.64

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	754+97.00	17.92	464.36	464.36
℄ Brg. N. Abut.	754+98.25	17.92	464.37	464.37
A	755+08.25	17.92	464.47	464.50
B	755+18.25	17.92	464.55	464.60
C	755+28.25	17.92	464.63	464.69
D	755+38.25	17.92	464.70	464.76
E	755+48.25	17.92	464.77	464.81
F	755+58.25	17.92	464.82	464.84
℄ Brg. Pier 1	755+72.00	17.92	464.89	464.89
G	755+82.00	17.92	464.92	464.93
H	755+92.00	17.92	464.95	464.97
I	756+02.00	17.92	464.98	465.02
J	756+12.00	17.92	464.99	465.04
K	756+22.00	17.92	465.00	465.05
L	756+32.00	17.92	465.00	465.04
M	756+42.00	17.92	464.99	465.01
N	756+52.00	17.92	464.97	464.98
℄ Brg. Pier 2	756+64.00	17.92	464.94	464.94
O	756+74.00	17.92	464.91	464.93
P	756+84.00	17.92	464.87	464.91
Q	756+94.00	17.92	464.82	464.88
R	757+04.00	17.92	464.76	464.82
S	757+14.00	17.92	464.70	464.75
T	757+24.00	17.92	464.63	464.66
℄ Brg. S. Abut.	757+37.75	17.92	464.52	464.52
Bk. S. Abut.	757+39.00	17.92	464.50	464.50

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr.	754+67.00	-20.00	463.99
A1	754+77.00	-20.00	464.10
A2	754+87.00	-20.00	464.22
Bk. N. Abut	754+97.00	-20.00	464.32

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr.	754+67.00	-12.00	464.15
A1	754+77.00	-12.00	464.26
A2	754+87.00	-12.00	464.38
Bk. N. Abut	754+97.00	-12.00	464.48

℄ ROADWAY, PG, & STAGE CONSTRUCTION LINE

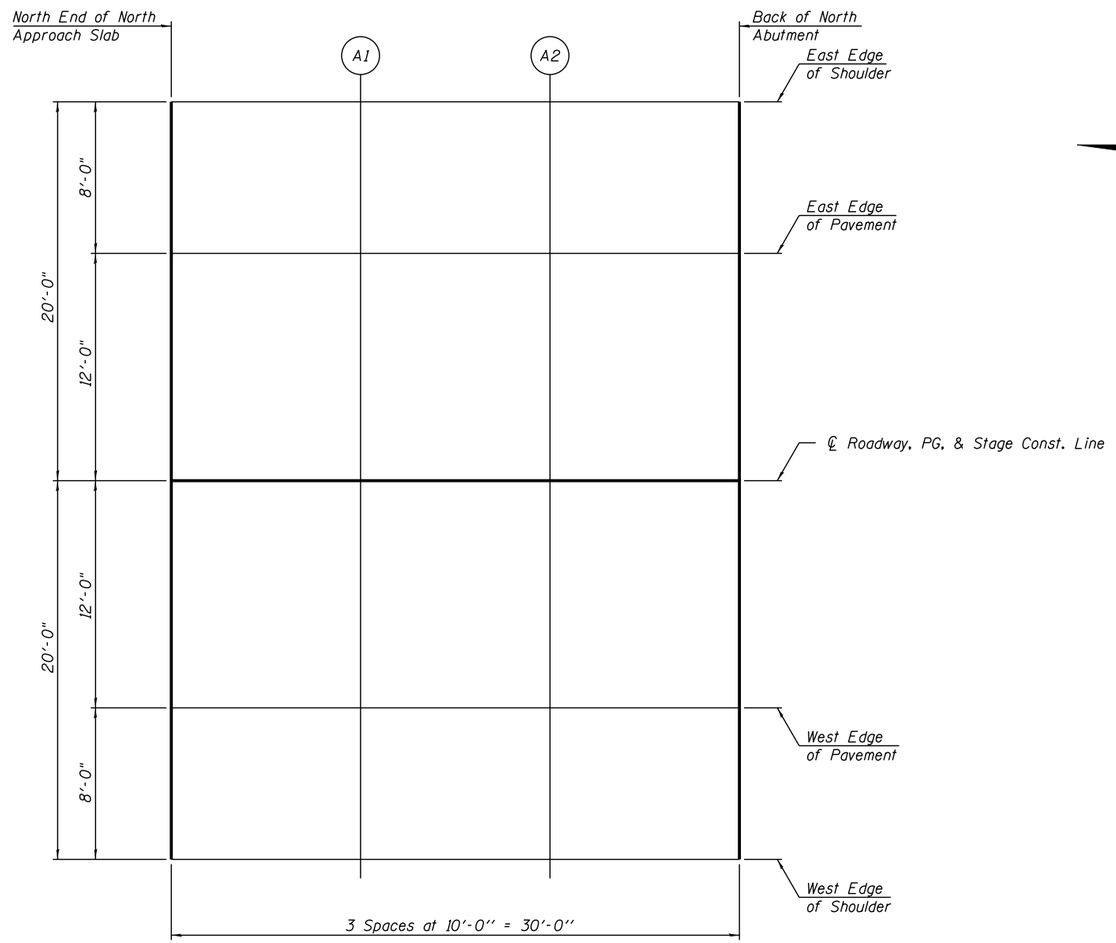
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr.	754+67.00	0.00	464.34
A1	754+77.00	0.00	464.45
A2	754+87.00	0.00	464.57
Bk. N. Abut	754+97.00	0.00	464.67

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr.	754+67.00	12.00	464.15
A1	754+77.00	12.00	464.26
A2	754+87.00	12.00	464.38
Bk. N. Abut	754+97.00	12.00	464.48

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr.	754+67.00	20.00	463.99
A1	754+77.00	20.00	464.10
A2	754+87.00	20.00	464.22
Bk. N. Abut	754+97.00	20.00	464.32



PLAN

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

TOP OF NORTH APPROACH
STRUCTURE NO. 060-0344
SHEET NO. 8 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	44
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

EAST EDGE OF SHOULDER

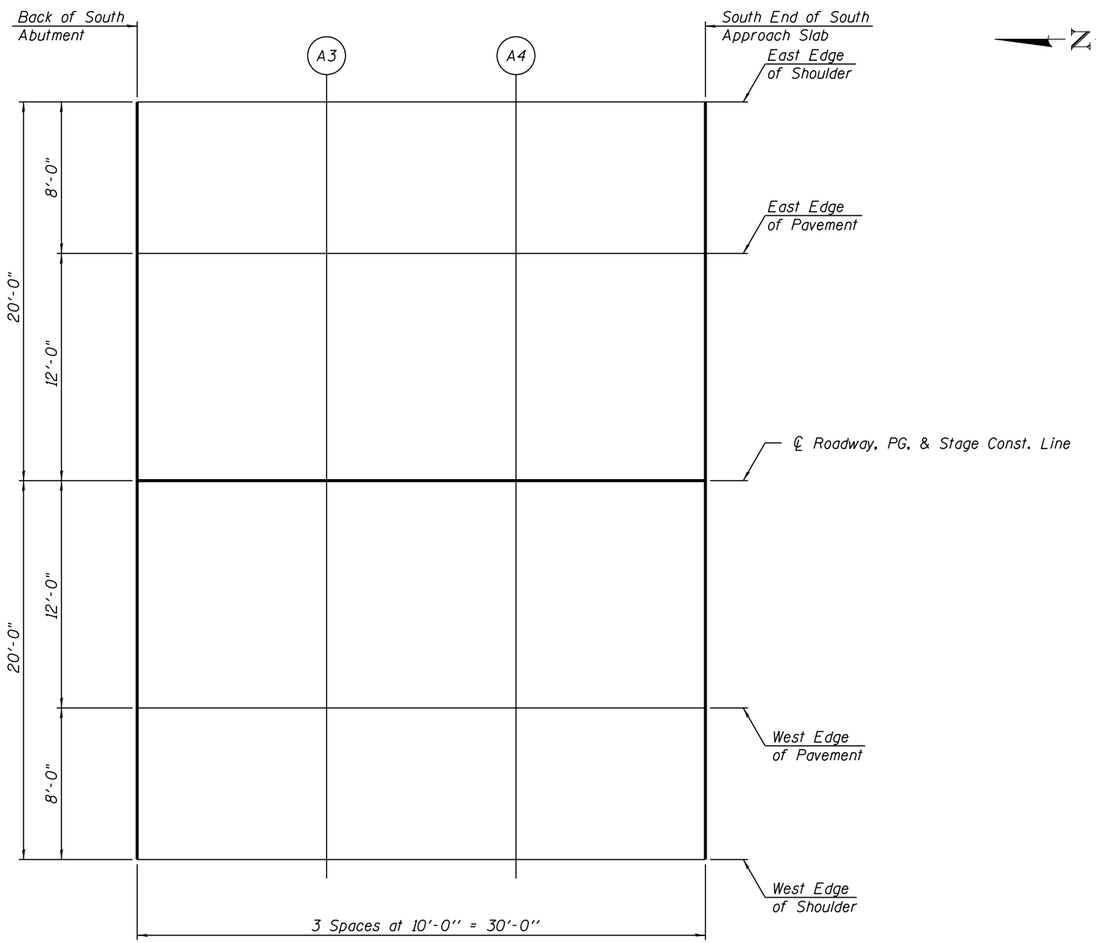
Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut	757+39.00	-20.00	464.46
A3	757+49.00	-20.00	464.37
A4	757+59.00	-20.00	464.27
S. End of S. Appr.	757+69.00	-20.00	464.17

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut	757+39.00	-12.00	464.62
A3	757+49.00	-12.00	464.53
A4	757+59.00	-12.00	464.43
S. End of S. Appr.	757+69.00	-12.00	464.33

℄ ROADWAY, PG. & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut	757+39.00	0.00	464.81
A3	757+49.00	0.00	464.72
A4	757+59.00	0.00	464.62
S. End of S. Appr.	757+69.00	0.00	464.52



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut	757+39.00	12.00	464.62
A3	757+49.00	12.00	464.53
A4	757+59.00	12.00	464.43
S. End of S. Appr.	757+69.00	12.00	464.33

WEST EDGE OF SHOULDER

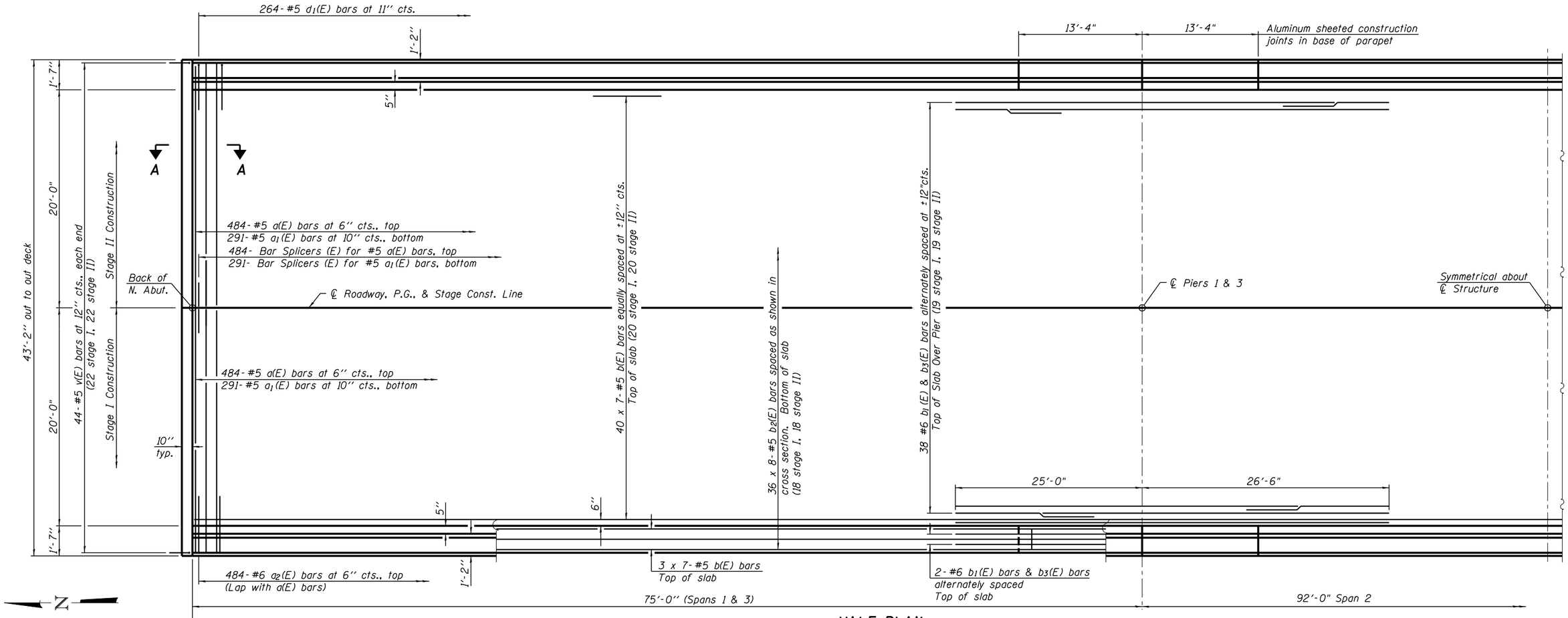
Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut	757+39.00	20.00	464.46
A3	757+49.00	20.00	464.37
A4	757+59.00	20.00	464.27
S. End of S. Appr.	757+69.00	20.00	464.17

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

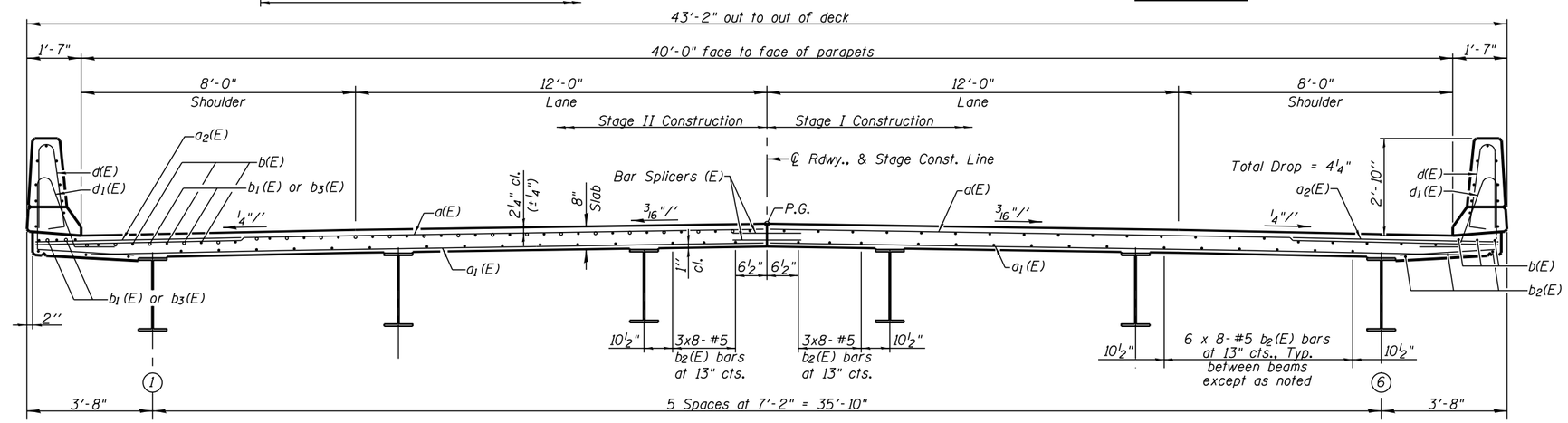
Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

TOP OF SOUTH APPROACH
STRUCTURE NO. 060-0344
SHEET NO. 9 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	45
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



HALF PLAN



NEAR PIER — NEAR MIDSPAN

CROSS SECTION

(Looking South)

MINIMUM BAR LAP

(Slab)

#5 bar = 1'-8''

#6 bar = 2'-0"

Notes:

See sheet 11 of 25 for superstructure details, parapet details, and Bill of Material.

Bars indicated thus 40 x 7- #5 etc. indicates 40 lines of bars with 7 lengths per line.

See Sheet 12 of 25 for Section A-A

See Sheet 22 of 25 for Bar Splicer Details

See Sheet 1 of 25 for floor drain location.

For Floor Drain Details See Sheet 11 of 25.

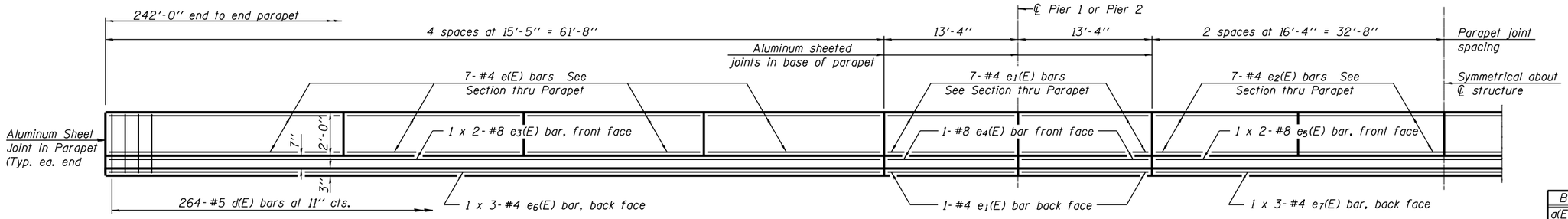
The Contractor shall pour the deck starting at an abutment location. The pour shall proceed to the opposite end. (Typ. Both Stages).

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

SUPERSTRUCTURE
STRUCTURE NO. 060-0344
SHEET NO. 10 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	46
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

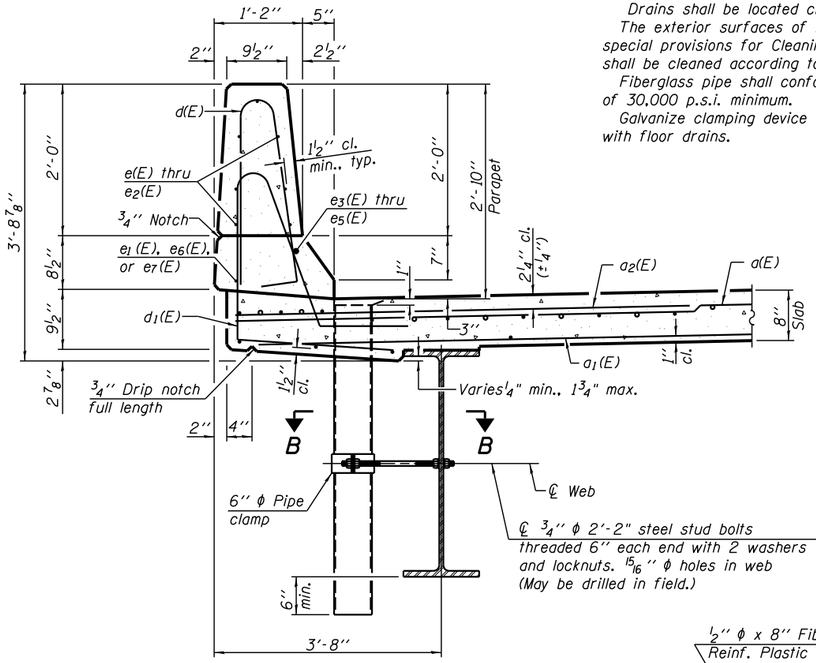


INSIDE ELEVATION OF PARAPET

Notes:
Drains shall be located clear of all diaphragms.
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with floor drains.

MINIMUM BAR LAP

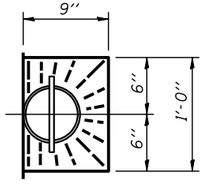
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



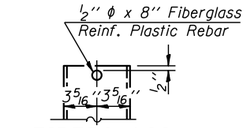
SECTION THRU PARAPET

SECTION B-B

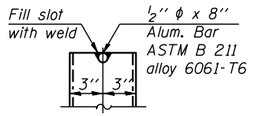
*Dimension as required by Pipe Clamp



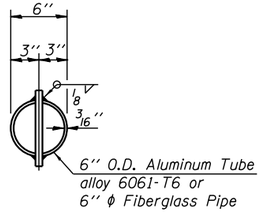
TOP PLAN



FIBERGLASS PIPE

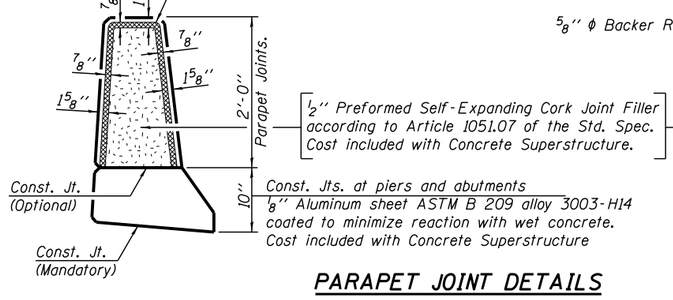


ALUMINUM TUBE

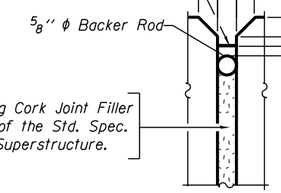


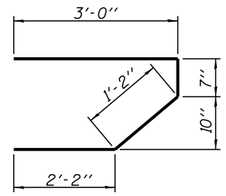
TOP PLAN

(Showing Aluminum Tube)

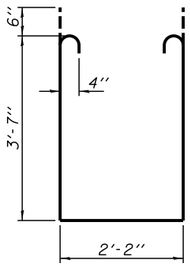


PARAPET JOINT DETAILS

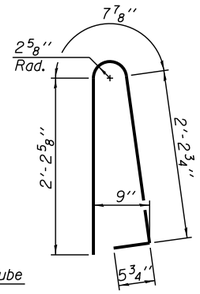




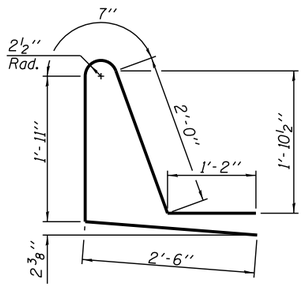
BAR s(E)



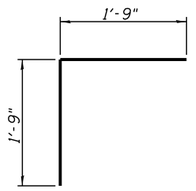
BAR s1(E)



BAR d(E)



BAR d1(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	968	#5	21'-1"	
a1(E)	582	#5	20'-2"	
a2(E)	968	#6	6'-0"	
b(E)	322	#5	36'-2"	
b1(E)	84	#6	36'-0"	
b2(E)	288	#5	31'-10"	
b3(E)	84	#6	17'-6"	
d(E)	528	#5	5'-7"	
d1(E)	528	#5	8'-2"	
e(E)	112	#4	15'-1"	
e1(E)	64	#4	13'-0"	
e2(E)	56	#4	16'-0"	
e3(E)	8	#8	33'-3"	
e4(E)	8	#8	13'-0"	
e5(E)	4	#8	35'-1"	
e6(E)	12	#4	22'-5"	
e7(E)	6	#4	23'-8"	
m(E)	20	#6	21'-3"	
m1(E)	24	#6	9'-11"	
m2(E)	8	#6	6'-10"	
m3(E)	4	#6	3'-4"	
m4(E)	4	#6	3'-3"	
s(E)	84	#5	6'-11"	
s1(E)	72	#4	10'-4"	
v(E)	88	#5	3'-6"	
Reinforcement Bars, Epoxy Coated			Pound	84750
Concrete Superstructure			Cu. Yds.	351.4

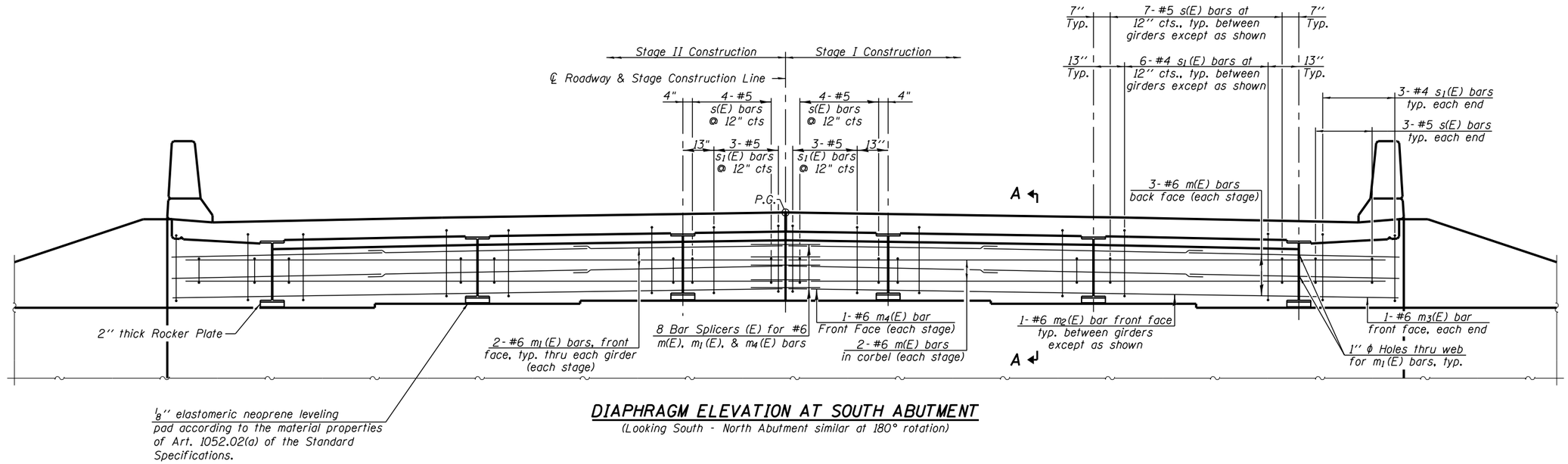
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 11 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	47
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

(Looking South - North Abutment similar at 180° rotation)

MINIMUM BAR LAP

(Diaphragms)

#6 bar = 2'-9"

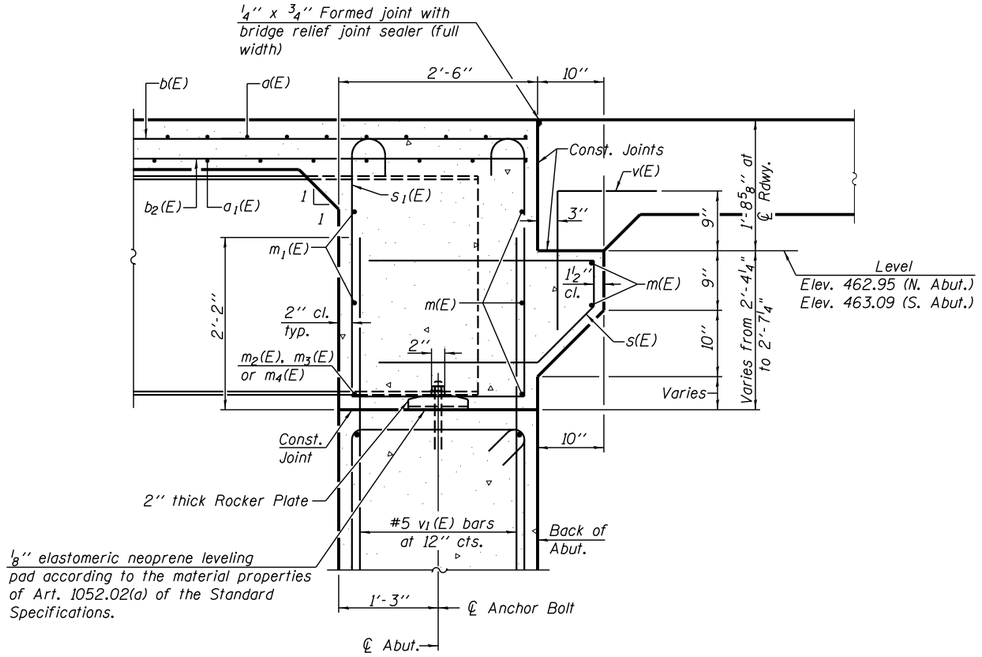
Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 25.

Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 25.

For details of bars s(E) & s_1(E) see sheet 11 of 25.

See Sheet 22 of 25 for Bar Splicer Details.



SECTION A-A

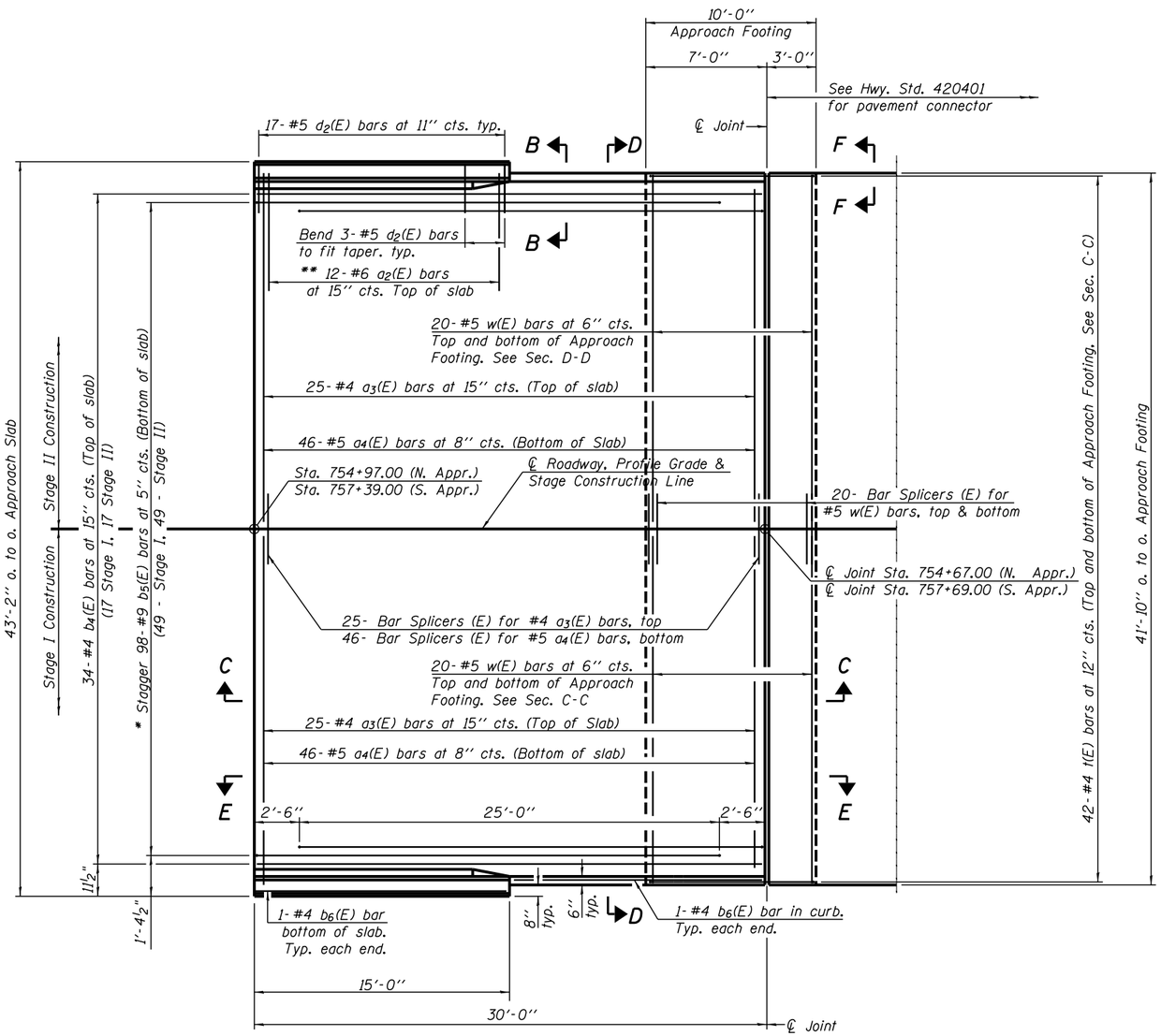
DSI-2440-0 8-31-12

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 12 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	48
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



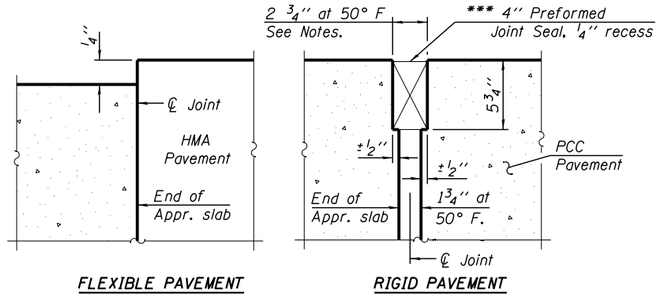
PLAN

(South Approach Slab Shown - North Approach Similar)
* Tilt #9 b_5(E) bars as required to maintain clearance.
** Alternate with a_3(E) bars, typ. ea. parapet.

Notes:
See sheet 14 of 25 for Sections C-C, D-D and View E-E.
a_3(E), a_4(E), and w(E) bar spacings measured along ℄ Rdwy.

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.

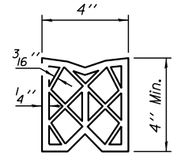
*** Cost included with Concrete Superstructure.



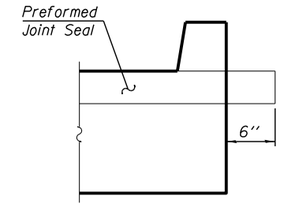
FLEXIBLE PAVEMENT

RIGID PAVEMENT

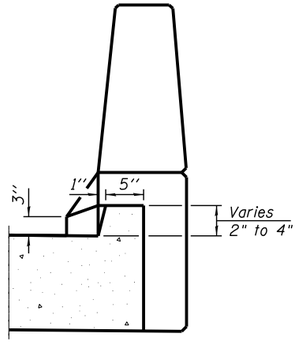
DETAIL A



PREFORMED JOINT SEAL



VIEW F-F



VIEW B-B

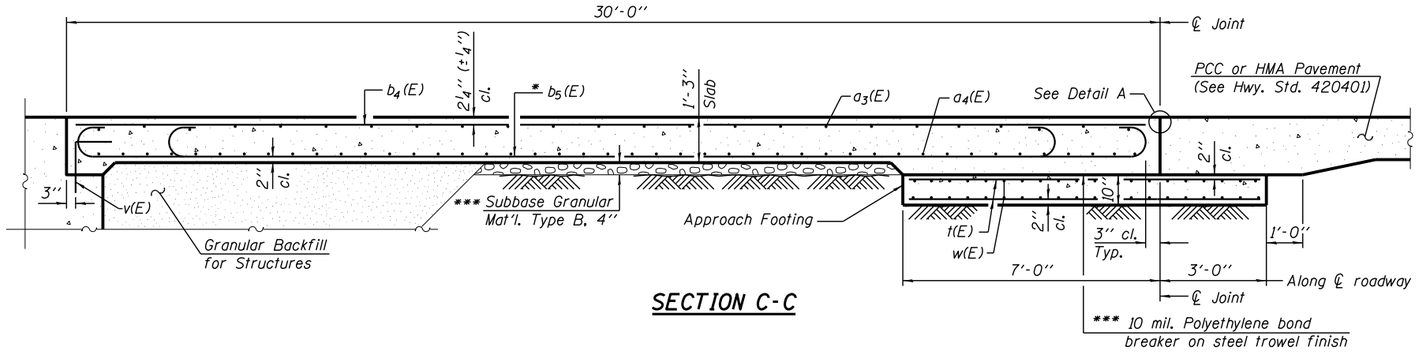
BA-0 12-12-12

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

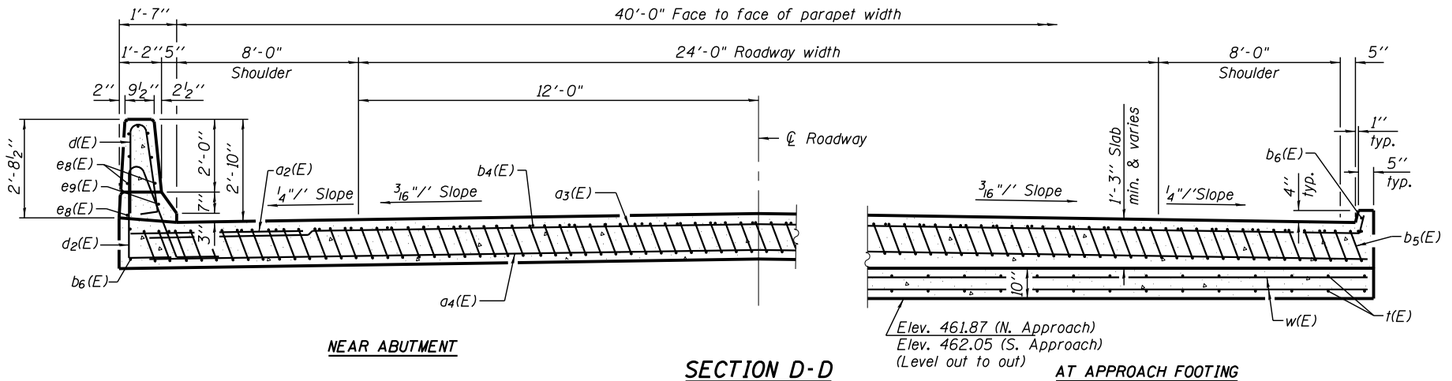
Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 13 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	49
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SECTION C-C

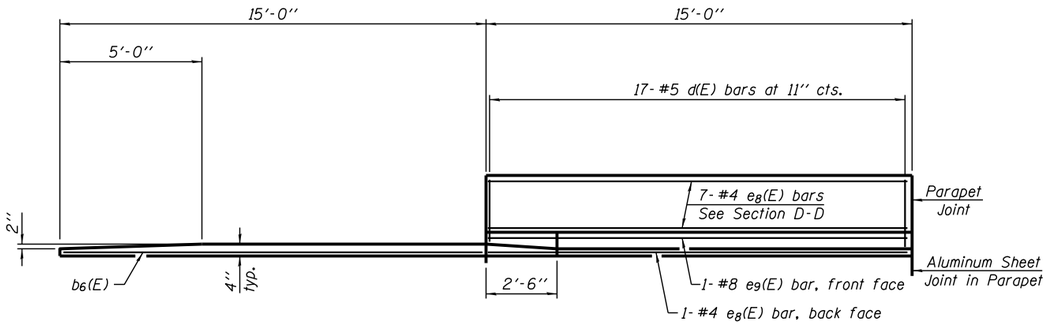


NEAR ABUTMENT

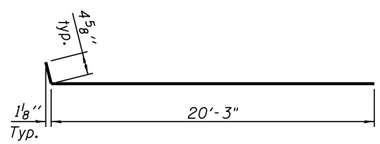
AT APPROACH FOOTING

SECTION D-D

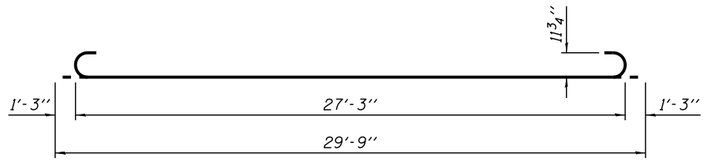
(See Plan for dimensions not shown)



VIEW E-E



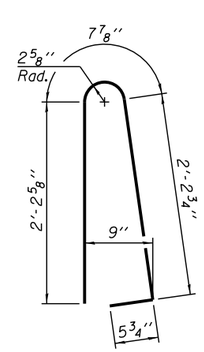
BAR a_3(E)



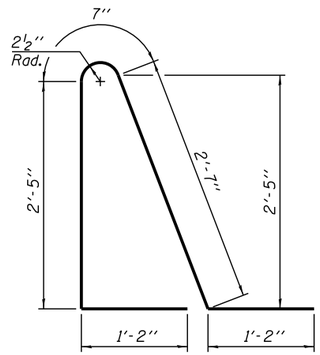
BAR b_5(E)

Notes:

See sheet 13 of 25 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheets 11 and 12 of 25.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 22 of 25.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.
For additional parapet details, see sheet 11 of 25.



BAR d(E)



BAR d_1(E)

* Tilt #9 b_1(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_2(E)	48	#6	6'-6"	
a_3(E)	100	#4	20'-7"	
a_4(E)	184	#5	20'-6"	
b_4(E)	68	#4	29'-8"	
b_5(E)	196	#9	29'-9"	
b_6(E)	8	#4	14'-8"	
d(E)	68	#5	5'-7"	
d_2(E)	68	#5	7'-11"	
e_8(E)	32	#4	14'-8"	
e_9(E)	4	#8	14'-8"	
t(E)	168	#4	9'-8"	
w(E)	160	#5	20'-6"	
Concrete Superstructure			Cu. Yd.	131.2
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	32970

BA-0

12-12-12

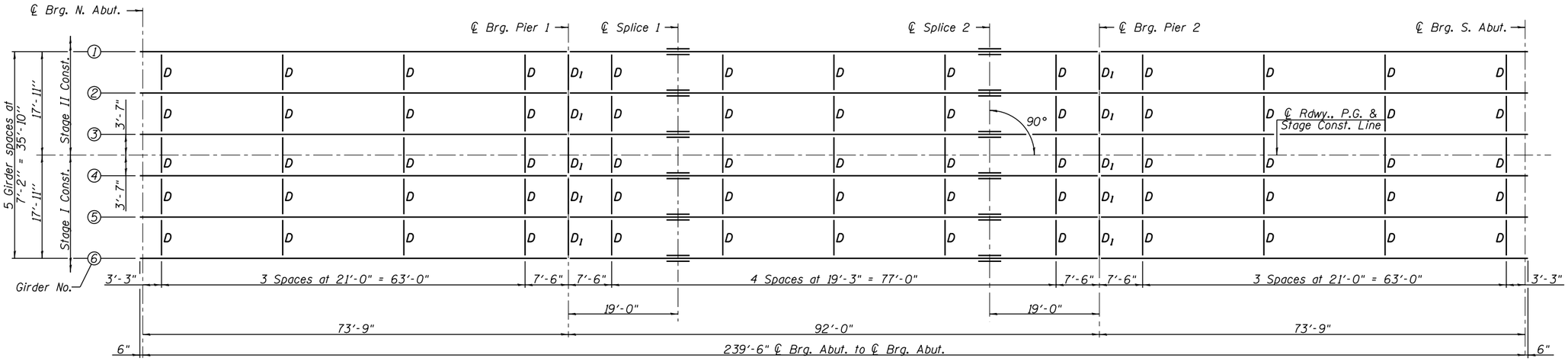
FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

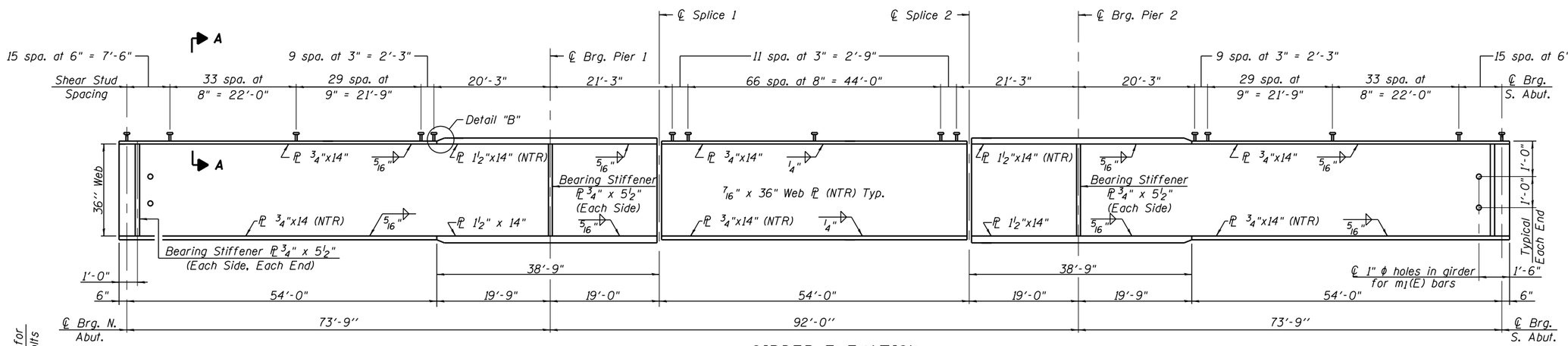
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0344

SHEET NO. 14 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	50
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

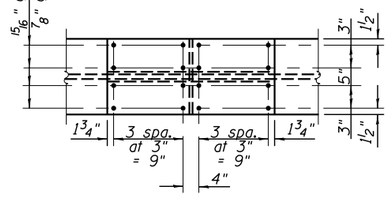


FRAMING PLAN

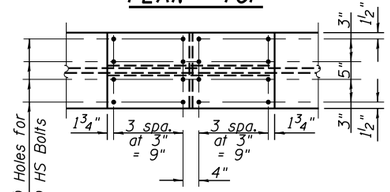


GIRDER ELEVATION

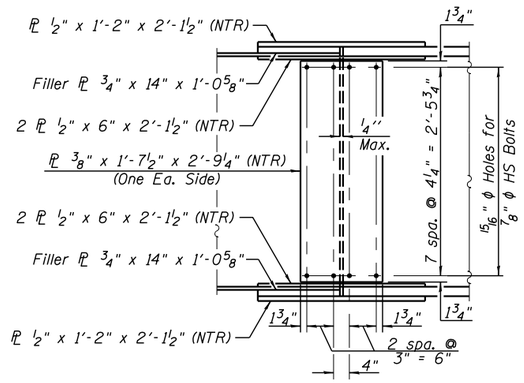
DETAIL "B"



PLAN - TOP

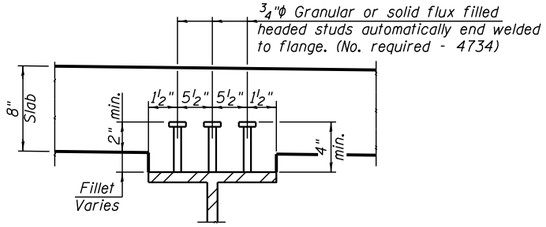


PLAN - BOTTOM



SPLICES 1 & 2
(12 Required)

ELEVATION



SECTION A-A

Notes:

All girders, diaphragms, bearing stiffeners, connection plates and splice plate material shall be AASHTO M 270, Grade 50.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphrams at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

For remainder of structural steel details see sheet 16 of 25.

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - -
		CHECKED - GBR	REVISED - -
	PLOT SCALE =	DRAWN - JRP	REVISED - -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

STRUCTURAL STEEL
STRUCTURE NO. 060-0344
SHEET NO. 15 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	51
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier #1 or Pier #2	0.5 Sp. 2
I_s	(in^4)	8792	16478	8792
$I_c(n)$	(in^4)	22045	-	22045
$I_c(3n)$	(in^4)	16716.5	-	16716.5
S_s	(in^3)	469	845	469
$S_c(n)$	(in^3)	646	-	646
$S_c(3n)$	(in^3)	596	-	596
Z	(in^3)	-	-	-
$DC1$	(k/')	0.870	1.431	0.870
M_{DC1}	('k)	295.6	1051.1	240.1
$DC2$	(k/')	0.150	-	0.150
M_{DC2}	('k)	56.1	-	54.1
DW	(k/')	0.333	-	0.333
M_{DW}	('k)	124.5	-	120.1
M_{L+IM}	('k)	936.4	928.2	978.3
M_u (Strength I)	('k)	2265.3	2996.3	2259.9
* $\phi_f M_n$, $\phi_f M_{nc}$	('k)	3290.4	-	3325.5
f_s DC1	(ksi)	7.56	14.9	6.14
f_s DC2	(ksi)	1.13	-	1.09
f_s DW	(ksi)	2.51	-	2.42
f_s 1.3(L+IM)	(ksi)	22.6	17.1	23.6
f_s (Service II)	(ksi)	33.8	32.0	33.3
f_s (Total)(Strength I)	(ksi)	45.0	42.6	44.4
** V_f	(k)	26.2	-	22.1

* Compact sections
** Non-Compact and slender sections

INTERIOR GIRDER REACTION TABLE			
		Abuts.	Pier 1 or 2
R_{DC1}	(k)	23.2	84.0
R_{DC2}	(k)	4.1	13.8
R_{DW}	(k)	9.1	30.7
R_{L+IM}	(k)	77.9	134.6
R_{Total}	(k)	114.3	263.1

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations ($in.^3$).

$DC1$: 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.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

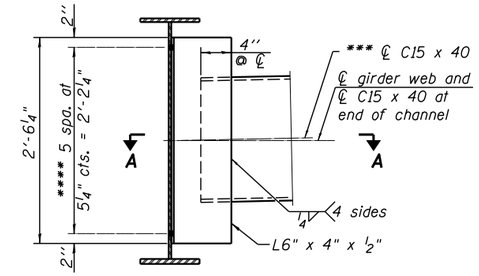
$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

$\phi_f M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

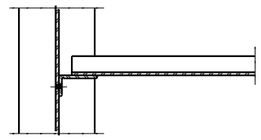
f_s (Service II): Sum of stresses as computed from the moments below (ksi).
$M_{DC1} + M_{DC2} + M_{DW} + 1.3\ M_{L+IM}$

f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

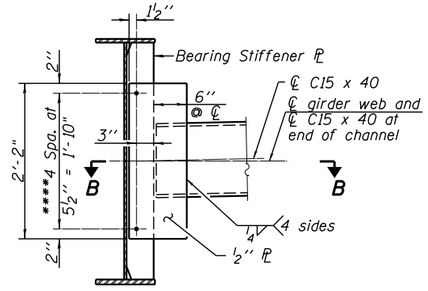
V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



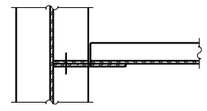
DIAPHRAGM D
(65 Required)



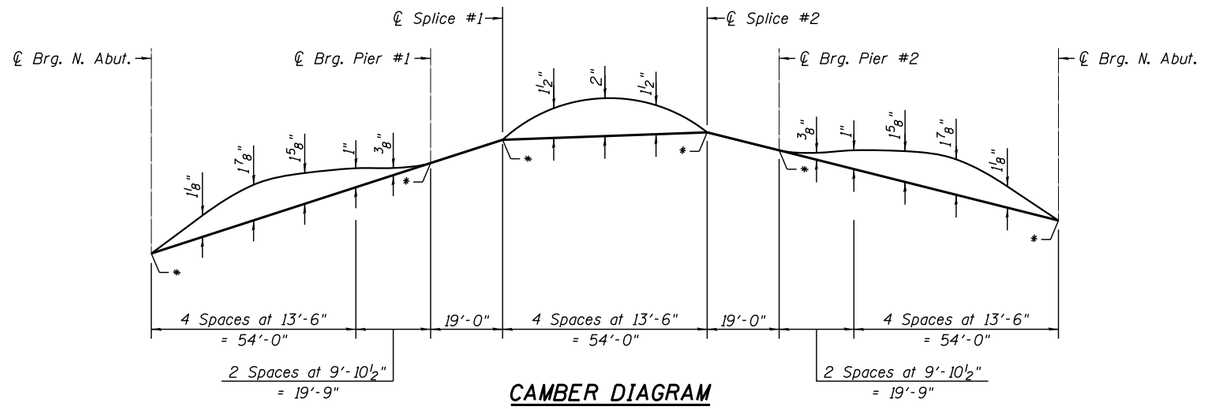
SECTION A-A



DIAPHRAGM D1
(10 Required)

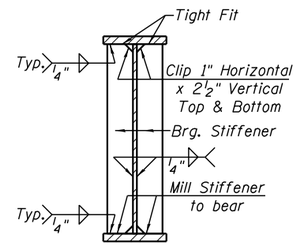


SECTION B-B

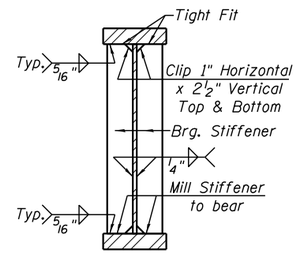


CAMBER DIAGRAM

* See Table for Top of Web Elevations.



SECTION AT ABUTMENT



SECTION AT PIER

** TOP OF WEB ELEVATIONS

Location	℄ Brg N Abut	℄ Brg Pier 1	℄ Splice 1	℄ Splice 2	℄ Brg Pier 2	℄ Brg S Abut
Girder 1	463.578	463.976	464.078	464.111	464.032	463.723
Girder 2	463.721	464.119	464.221	464.254	464.174	463.866
Girder 3	463.833	464.231	464.333	464.366	464.286	463.978
Girder 4	463.833	464.231	464.333	464.366	464.286	463.978
Girder 5	463.721	464.119	464.221	464.254	464.174	463.866
Girder 6	463.578	463.976	464.078	464.111	464.032	463.723

** For Fabrication Only

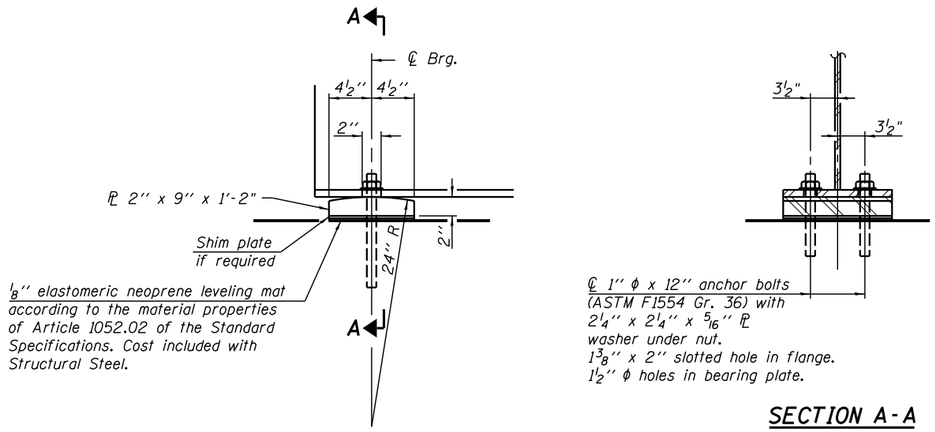
Note:
Two hardened washers required for each set of oversized holes.
*** For Diaphragm D alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**** ¾'' ϕ HS bolts, 15/16'' ϕ holes

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 16 OF 25 SHEETS

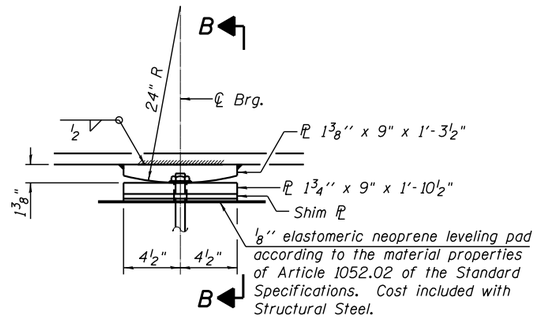
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	52
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



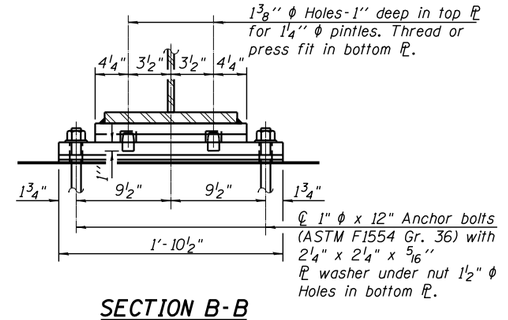
ELEVATION AT ABUTMENT

SECTION A-A

FIXED BEARING AT ABUTMENT
(12 Required)



ELEVATION AT PIER



SECTION B-B

FIXED BEARING AT PIERS
(12 Required)

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified.

The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

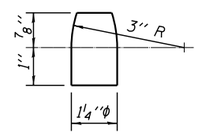
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the bearings shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.



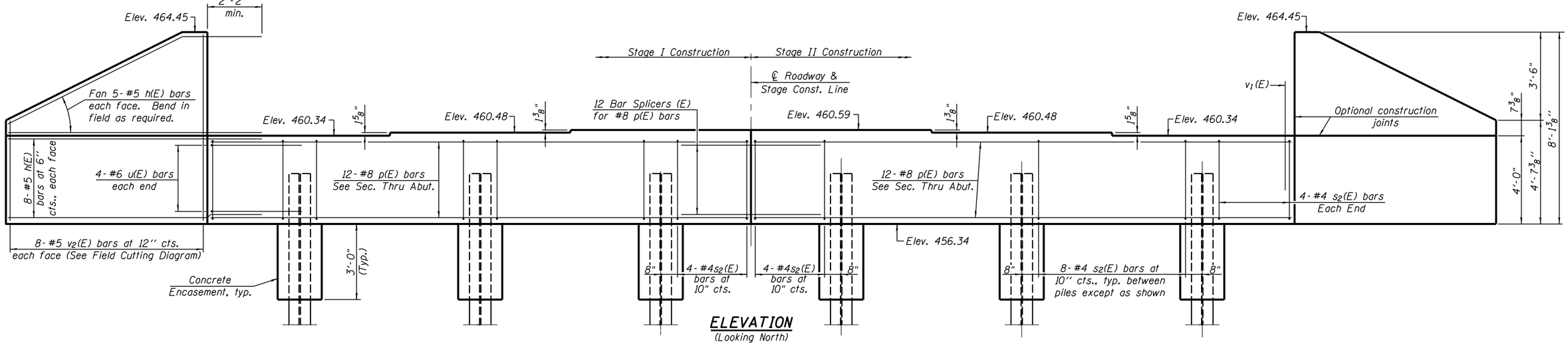
PINTLE

BILL OF MATERIAL

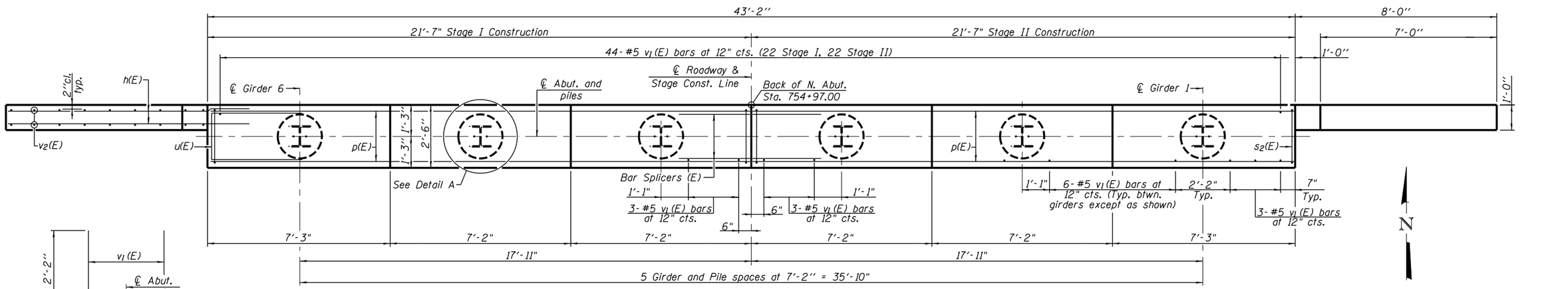
Item	Unit	Total
Anchor Bolts, 1"	Each	48

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·	Allen Henderson & Associates, Inc. Civil and Structural Engineers IL Design Firm No. 184-01907	BEARING DETAILS STRUCTURE NO. 060-0344	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - GBR	REVISED - ·			314	110BR-1	MADISON	94	53
	PLOT SCALE =	DRAWN - JRP	REVISED - ·						CONTRACT NO. 76B50	
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·		SHEET NO. 17 OF 25 SHEETS	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

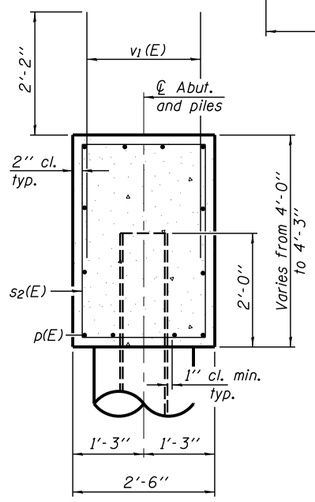
Notes:
Pour steps monolithically with cap.
For details of Bar Splicers, see sheet 22 of 25.
For details of Piles and Concrete Encasement, see sheet 23 of 25.



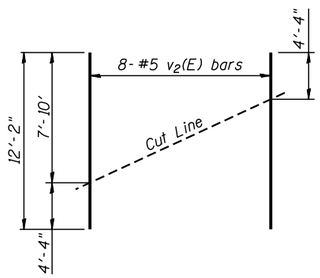
ELEVATION
(Looking North)



PLAN



SEC. THRU ABUT.

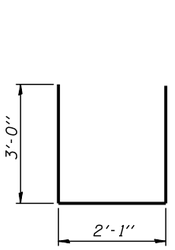


FIELD CUTTING DIAGRAM

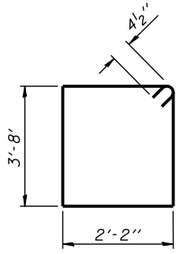
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	52	#5	11'-0"	
p(E)	24	#8	21'-3"	
s2(E)	48	#4	12'-5"	
u(E)	8	#6	8'-1"	
v1(E)	80	#5	4'-4"	
v2(E)	16	#5	12'-2"	
Structure Excavation			Cu. Yd.	33
Concrete Structures			Cu. Yd.	20.4
Concrete Encasement			Cu. Yd.	2.1
Reinforcement Bars, Epoxy Coated			Pound	3020
Furnishing Steel Piles HP 12x63			Foot	480
Driving Piles			Foot	480



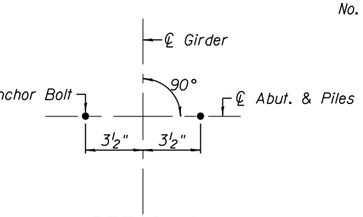
BAR u(E)



BAR s2(E)

PILE DATA

Type:	HP 12 x 63
Nominal Required Bearing:	497 kips
Factored Resistance Available:	248 kips
Est. Length:	80 ft.
No. Production Piles:	6
No. Test Piles:	0



DETAIL A

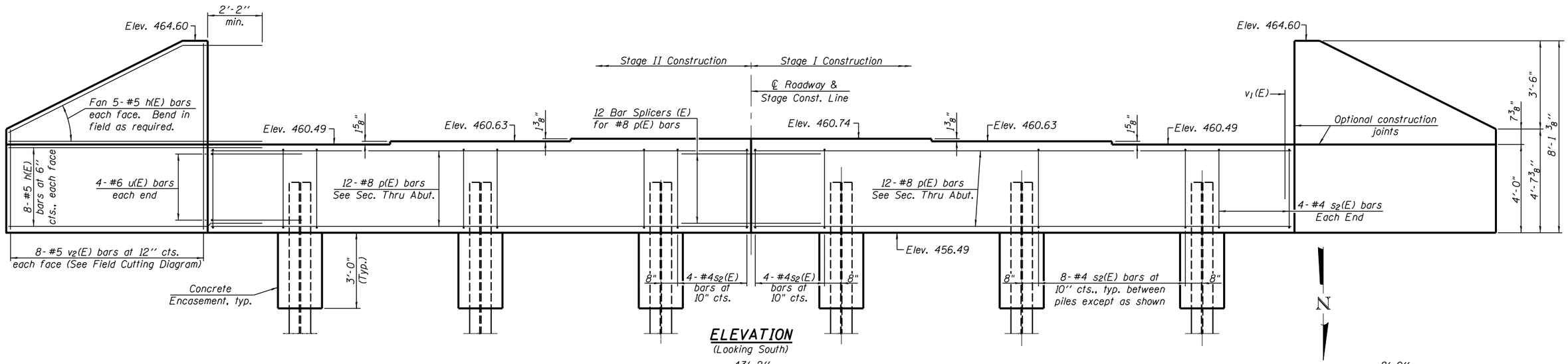
FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - -
		CHECKED - GBR	REVISED - -
	PLOT SCALE =	DRAWN - JRP	REVISED - -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

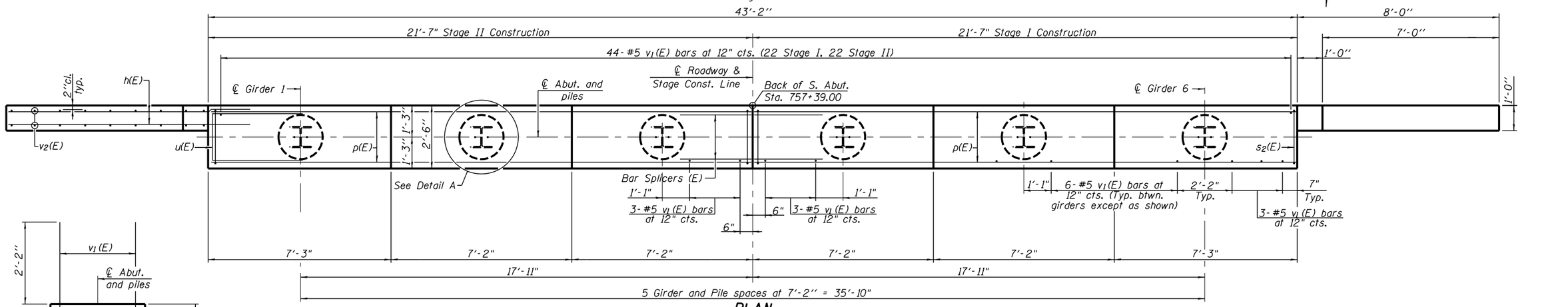
NORTH ABUTMENT
STRUCTURE NO. 060-0344
SHEET NO. 18 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	54
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

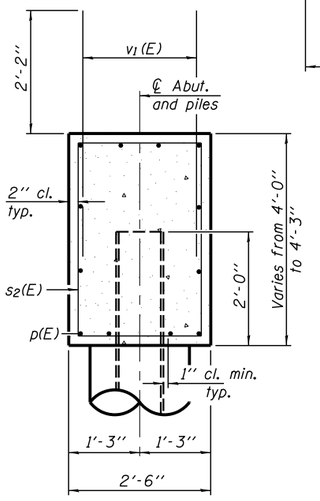
Notes:
Pour steps monolithically with cap.
For details of Bar Splicers, see sheet 22 of 25.
For details of Piles and Concrete Encasement, see sheet 23 of 25.



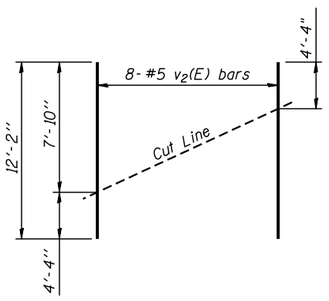
ELEVATION
(Looking South)



PLAN



SEC. THRU ABUT.

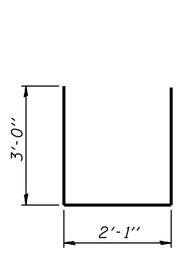


FIELD CUTTING DIAGRAM

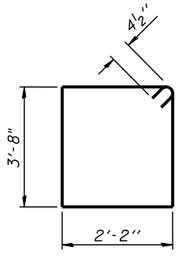
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

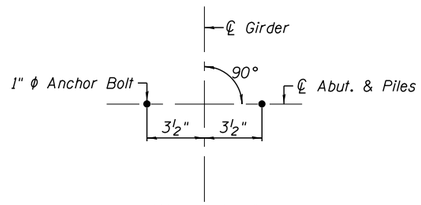
Bar	No.	Size	Length	Shape
h(E)	52	#5	11'-0"	
p(E)	24	#8	21'-3"	
s2(E)	48	#4	12'-5"	
u(E)	8	#6	8'-1"	
v1(E)	80	#5	4'-4"	
v2(E)	16	#5	12'-2"	
Structure Excavation		Cu. Yd.	33	
Concrete Structures		Cu. Yd.	20.4	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	3020	
Furnishing Steel Piles HP 12x63		Foot	600	
Driving Piles		Foot	600	



BAR u(E)



BAR s2(E)



DETAIL A

PILE DATA

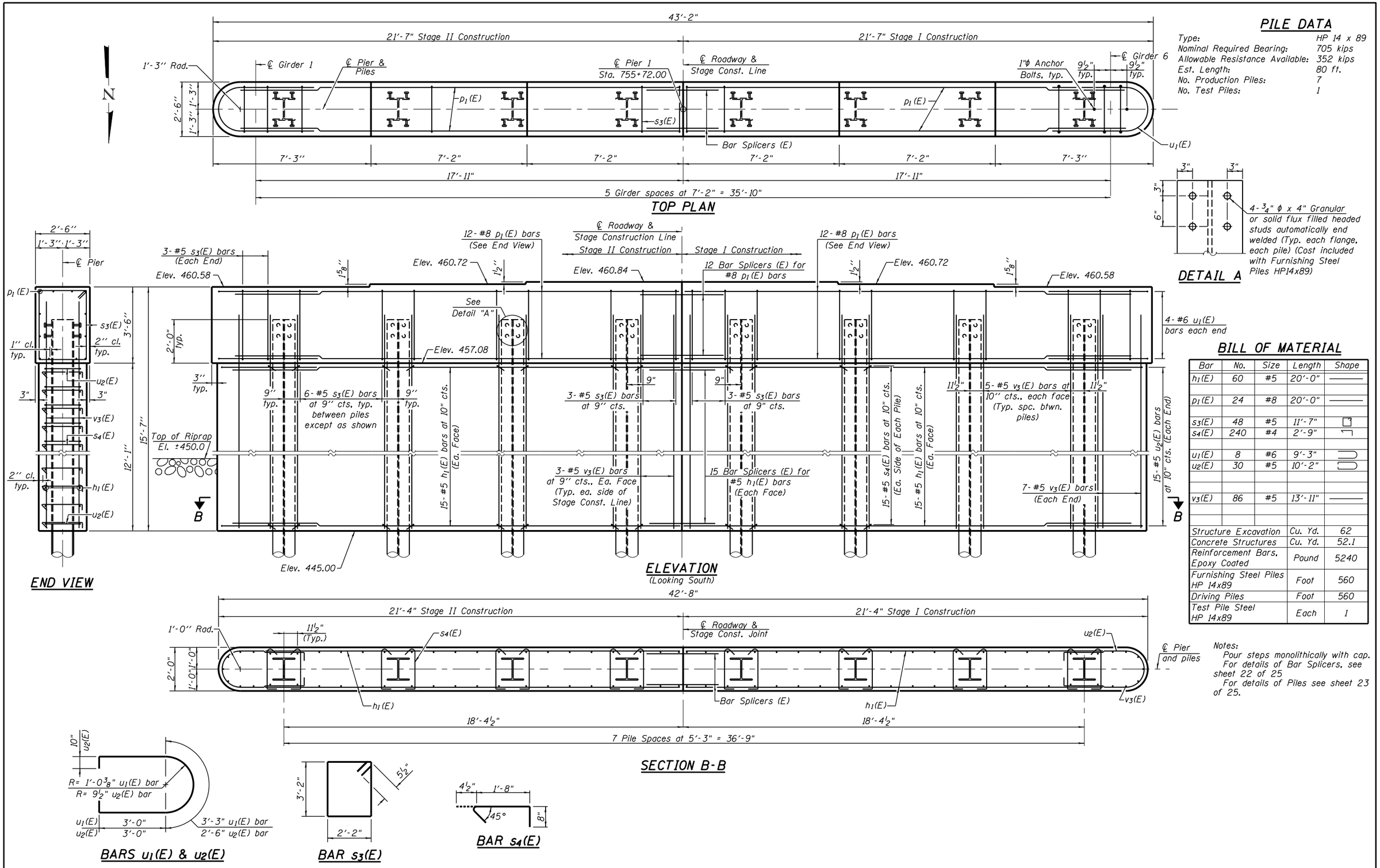
Type:	HP 12 x 63
Nominal Required Bearing:	497 kips
Factored Resistance Available:	248 kips
Est. Length:	100 ft.
No. Production Piles:	6
No. Test Piles:	0

FILE NAME = $FILE$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

SOUTH ABUTMENT
STRUCTURE NO. 060-0344
SHEET NO. 19 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	55
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



PILE DATA

Type:	HP 14 x 89
Nominal Required Bearing:	705 kips
Allowable Resistance Available:	352 kips
Est. Length:	80 ft.
No. Production Piles:	7
No. Test Piles:	1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	60	#5	20'-0"	
$p_1(E)$	24	#8	20'-0"	
$s_3(E)$	48	#5	11'-7"	
$s_4(E)$	240	#4	2'-9"	
$u_1(E)$	8	#6	9'-3"	
$u_2(E)$	30	#5	10'-2"	
$v_3(E)$	86	#5	13'-11"	
Structure Excavation		Cu. Yd.	62	
Concrete Structures		Cu. Yd.	52.1	
Reinforcement Bars, Epoxy Coated		Pound	5240	
Furnishing Steel Piles HP 14x89		Foot	560	
Driving Piles		Foot	560	
Test Pile Steel HP 14x89		Each	1	

Notes:
Pour steps monolithically with cap.
For details of Bar Splicers, see sheet 22 of 25
For details of Piles see sheet 23 of 25.

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

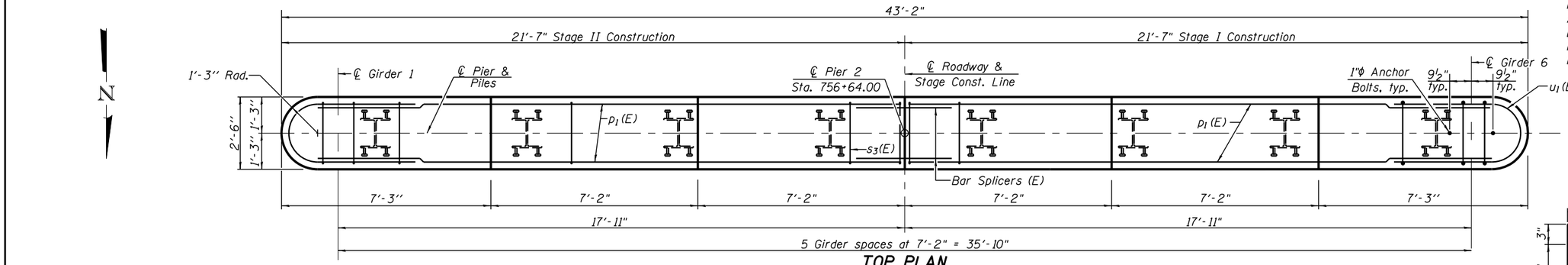
Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

PIER 1
STRUCTURE NO. 060-0344
SHEET NO. 20 OF 25 SHEETS

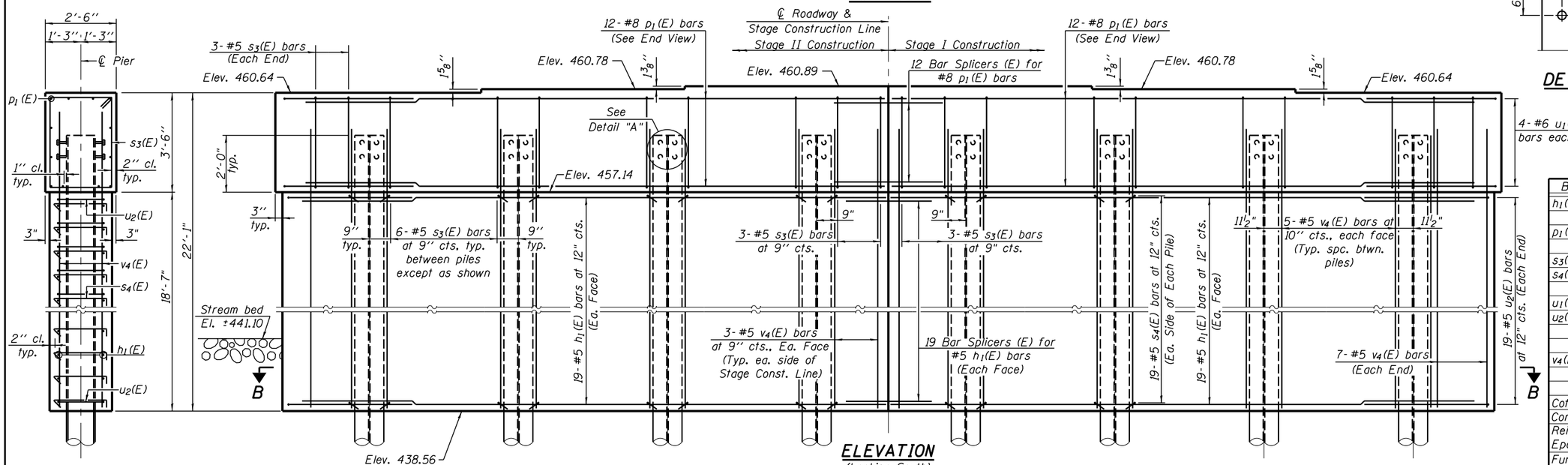
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	56
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PILE DATA

Type:	HP 14 x 89
Nominal Required Bearing:	705 kips
Allowable Resistance Available:	352 kips
Est. Length:	100 ft.
No. Production Piles:	7
No. Test Piles:	1

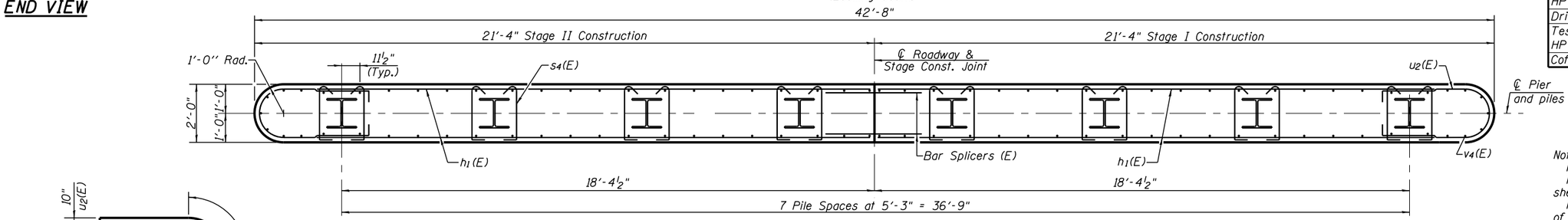


TOP PLAN

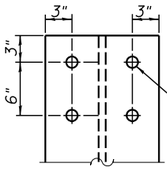


END VIEW

ELEVATION
(Looking South)



SECTION B-B



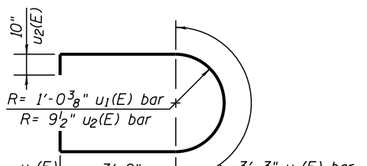
4- ¾" ϕ x 4" Granular or solid flux filled headed studs automatically end welded (Typ. each flange, each pile) (Cost included with Furnishing Steel Piles HP14x89)

DETAIL A

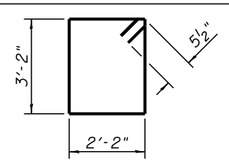
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	76	#5	20'-0"	
p1(E)	24	#8	20'-0"	
s3(E)	48	#5	11'-7"	
s4(E)	304	#4	2'-9"	
u1(E)	8	#6	9'-3"	
u2(E)	38	#5	10'-2"	
v4(E)	86	#5	20'-5"	

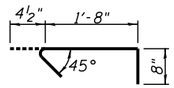
Cofferdam Excavation	Cu. Yd.	85
Concrete Structures	Cu. Yd.	72.5
Reinforcement Bars, Epoxy Coated	Pound	6360
Furnishing Steel Piles HP 14x89	Foot	700
Driving Piles	Foot	700
Test Pile Steel HP 14x89	Each	1
Cofferdam (Type 1)	Each	1



BARS u1(E) & u2(E)



BAR s3(E)



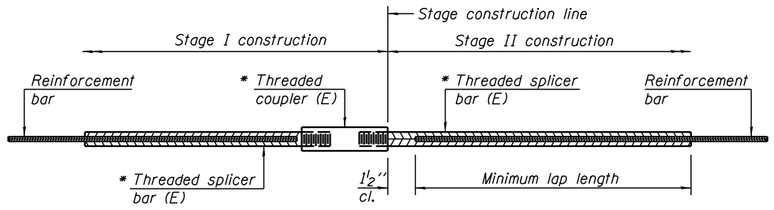
BAR s4(E)

Notes:
Pour steps monolithically with cap. For details of Bar Splicers, see sheet 22 of 25.
For details of Piles see sheet 23 of 25.

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·	Allen Henderson & Associates, Inc. Civil and Structural Engineers IL Design Firm No. 184-01907
		CHECKED - GBR	REVISED - ·	
	PLOT SCALE =	DRAWN - JRP	REVISED - ·	
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·	

PIER 2
STRUCTURE NO. 060-0344
SHEET NO. 21 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	57
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

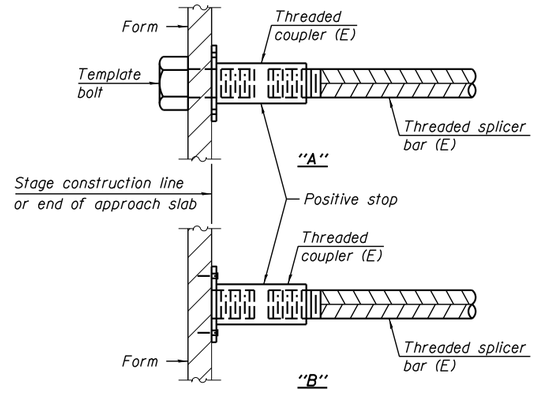
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

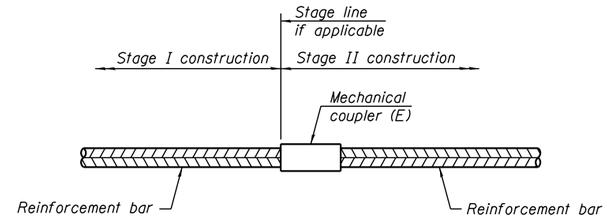
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Approach Slab (Top)	#4	50	4
Deck	#5	775	3
Approach Slab (Bott.)	#5	92	3
Concrete Pad	#5	80	3
Piers (Stem)	#5	68	5
Abutment Diaphragm	#6	16	5
Abutments	#8	24	5
Pier (Caps)	#8	24	5



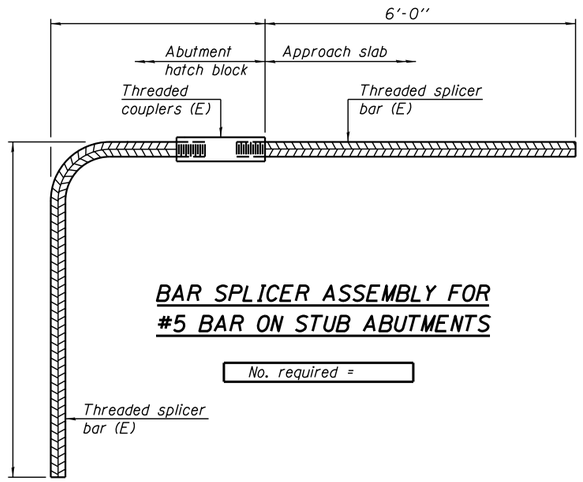
INSTALLATION AND SETTING METHODS

"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.

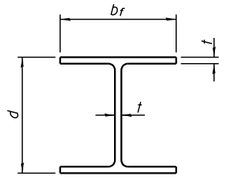
BSD-1 8-31-12

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

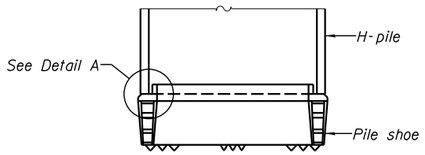
BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 22 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	58
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

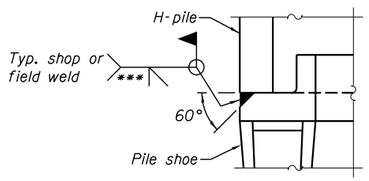


STEEL PILE TABLE

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"

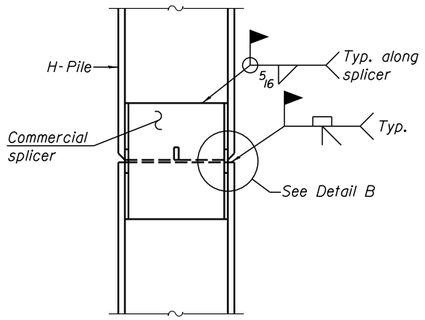


ELEVATION

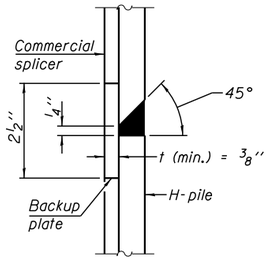


DETAIL A

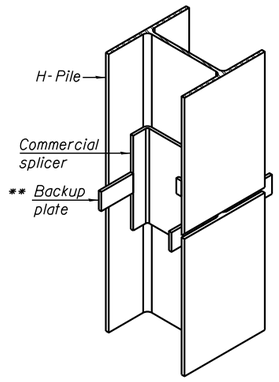
H-PILE SHOE ATTACHMENT



ELEVATION

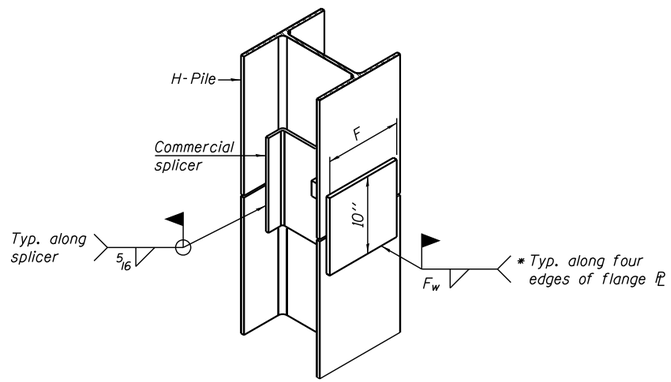


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



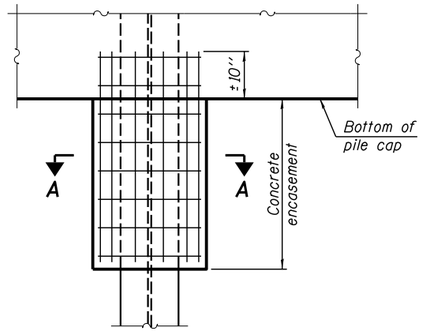
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

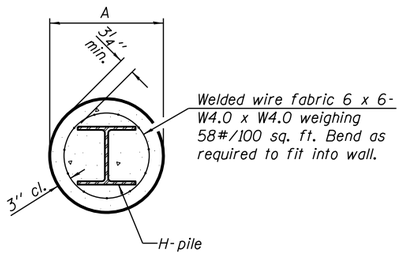
* Interrupt welds 1/4" from end of web and/or each flange.

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

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



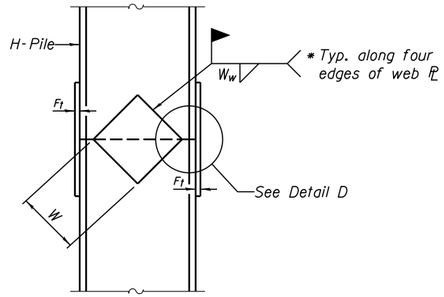
ELEVATION



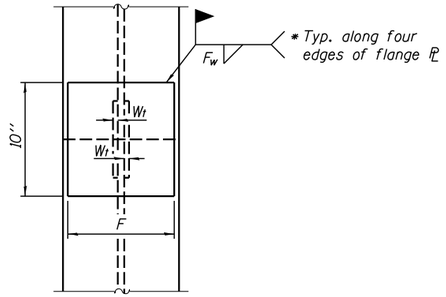
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

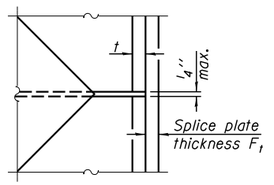
PILE ENCASEMENT



ELEVATION



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.

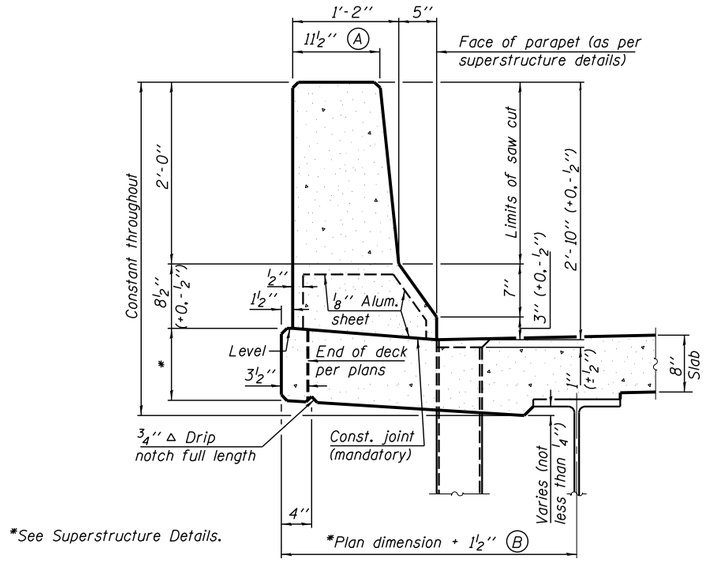
F-HP 1-27-12

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

PILE DETAILS
STRUCTURE NO. 060-0344
SHEET NO. 23 OF 25 SHEETS

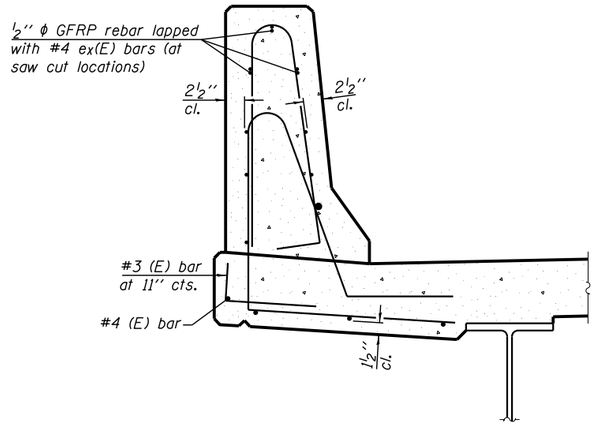
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	59
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



*See Superstructure Details.

34" F SHAPE PARAPET SECTION

(Showing dimensions)



SECTION

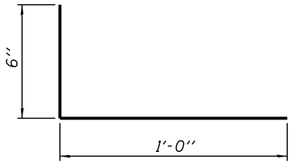
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

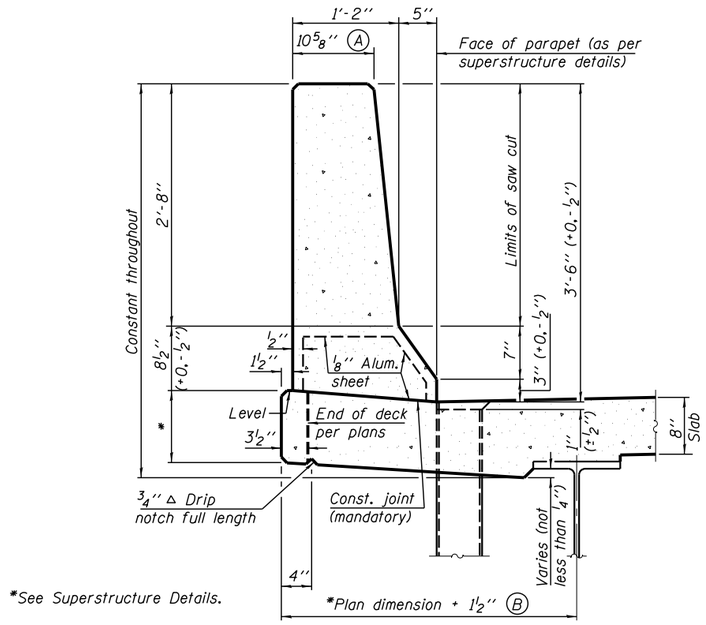
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.

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.



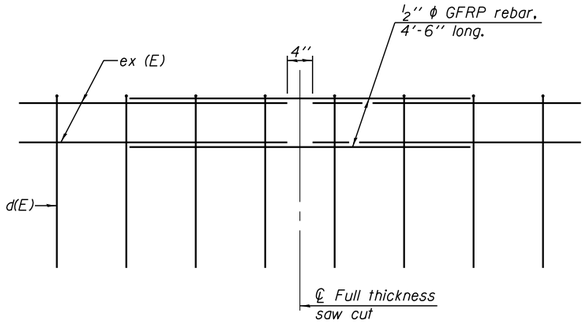
#3 (E) BAR



*See Superstructure Details.

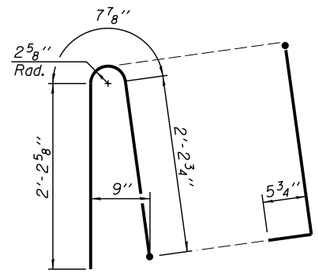
42" F SHAPE PARAPET SECTION

(Showing dimensions)



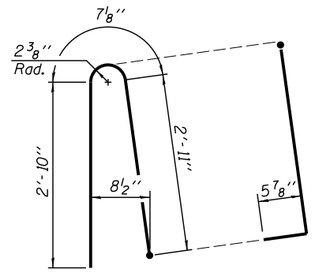
GFRP REBAR STIFFENING DETAIL

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



ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)

SFP 34-42 8-16-12

FILE NAME = $FILES$	USER NAME =	DESIGNED - FLL	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRP	REVISED -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 060-0344
SHEET NO. 23A OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	59A
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc

SOIL BORING LOG

Date 05/14/08

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station

BORING NO. B-1
Station 757+21
Offset 10 ft Rt.
Ground Surface Elev. 482.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 448.4 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown and grayish brown, low plastic (A-7)	2 3 4	2.2	23
		B	
458.4	2		
FILL: Brown, high plastic clay (A-7)	4 5	1.5	29
-3		P	
456.9			
FILL: Brown, low plastic silty clay (A-7)	3 4 3	4.5	20
		P	
454.4			
FILL: Brown, low plastic silty clay (A-6)	3 4 5	4.5	19
-13		P	
	1 1 2	0.2	27
		B	
	2 2 3	1.6	24
-15		B	
446.9			
CLAY: Grayish brown, high plastic, trace sand (A-7)	2 3 3	1.6	24
		B	
Becomes brown and reddish brown	2 2 3	1.6	32
-20		B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
441.9			
SILTY CLAY: Gray, low plastic (A-7)	1 2 2	0.2	29
		B	
439.4			
SILTY CLAY: Gray and brown, low plastic, trace sand (A-6)	1 2 3	0.3	30
-26		B	
435.9			
CLAYEY SILT: Gray, low plastic (A-4)	1 2 3	1.5	25
		P	
434.4			
SILTY CLAY: Gray, low plastic, some sand (A-6)	2 3 3	1.6	21
-36		B	
430.4			
SAND: Grayish brown, fine to medium (A-3)	4 13 8	-	22
-38			
Mud rotary drilling began at 35 feet.			
425.4			
SILT: Brown and gray, low plastic (A-4)	19 25 24	2.2 S/10	19
-46			

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

Date 05/14/08

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station

BORING NO. B-1
Station 757+21
Offset 10 ft Rt.
Ground Surface Elev. 482.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 448.4 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILT: Brown and gray, low plastic (A-4) *(continued)*	8 11 12	2.9	18
420.4		B	
SANDY CLAY: Grayish brown, low plastic (A-7)			
-45			
415.4			
CLAY: Brown, high plastic, some sand (A-7)	5 8 12	<0.25	27
-59		P	
Becomes grayish brown, brown, and gray, and grades to trace fine gravel	4 7 9	1.9	19
-66		B	
Becomes brown	3 6 8	1.9	21
-80		B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) *(continued)*	5 8 12	2.7	19
-96		B	
	3 6 7	<0.25	24
-76		P	
Driller observed harder drilling at about 71 feet.			
	5 7 10	1.9	19
-71		B	
385.4			
SANDY CLAY: Greenish gray and dark brown, low plastic (A-6)	13 22 33	1.9 S/15	20
-96			

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

Date 05/14/08

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station

BORING NO. B-1
Station 757+21
Offset 10 ft Rt.
Ground Surface Elev. 482.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 448.4 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY: Greenish gray and dark brown, low plastic (A-6) *(continued)*			
Becomes dark brown and greenish gray (parent material is clayey shale/shale)	50/1" 50/1"	-	24
-85			
375.4			
SILTY CLAY: Brownish gray, low plastic, some sand (A-6)	4 5 5	1.2	26
-99		B	
365.4			
SANDY CLAY: Gray and brown, low plastic (parent material is clayey shale/shale)	3 5 6	1.9	24
-95		B	
360.4			
Driller observed last inch of sample was hard.			
SANDSTONE: Gray			
-105			
	4 8 16	0.5	24
-109		B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	50/2" 50/1"	1.8	17
-195		P	
	50/2" 50/0"	-	19
-176			
Boring terminated at 106.5 feet.			
-176			
-120			

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 = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - ·
		CHECKED - GBR	REVISED - ·
	PLOT SCALE =	DRAWN - JRP	REVISED - ·
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - ·

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

SOIL BORING LOGS
STRUCTURE NO. 060-0344
SHEET NO. 24 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	60
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI
Date 05/12/08

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station
BORING NO. B-2
Station 754+88
Offset 18 ft Rt.
Ground Surface Elev. 462.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 438.9 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
461.4 FILL: Cinders and gravel			
FILL: Brown, low plastic silty clay, trace sand (A-6)	4 3 5	4.0 P	20
-5	4 4 5	3.7 B	20
Becomes dark brown, olive gray, and brown	3 2 4	2.5 SP15	19
Becomes brown	2 2 4	2.9 B	19
-10 451.9 FILL: Gray and brown, high plastic clay (A-7)	2 3 2	2.5 B	26
449.4 FILL: Dark brown, low plastic silty clay, trace sand (A-6)	4 5 6	1.9 B	20
-15 446.9 SILTY CLAY: Gray, low plastic (A-6)	0 2 2	0.8 B	28
Becomes dark brown	1 1 2	0.3 D	35
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Gray, low plastic (A-6) (continued)			
Becomes gray	1 1 2	0.3 B	28
Becomes brown	1 1 2	0.1 B	28
-25 438.9 SANDY CLAY: Gray, low plastic (A-6)	2 2 1	<0.25 P	29
Becomes less sandy (A-7)	0 0 2	0.1 B	26
-30			
Becomes more sandy (A-6)	0 0 0	0.1 B	27
-35			
Becomes brown and grades to trace organics	1 2 5	0.4 D	33
-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

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI
Date 05/12/08

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station
BORING NO. B-2
Station 754+88
Offset 18 ft Rt.
Ground Surface Elev. 462.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 438.9 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY: Gray, low plastic (A-6) (continued) Mud rotary drilling began at 40 feet.			
429.4 CLAY: Grayish brown, high plastic, some sand, trace fine gravel (A-7)	4 7 8	1.0 B	17
-45	5 5 9	1.3 B	35
-50			
With silt deposit	6 10 17	1.8 B	18
-55 405.4 SANDY CLAY: Gray, low plastic (parent material is clayey shale/shale) (A-6)	6 10 15	1.8 D	14
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY: Gray, low plastic (parent material is clayey shale/shale) (A-6) (continued)			
400.4 CLAY: Brown, high plastic, some sand, trace fine gravel (A-7)	5 8 10	1.5 B	20
-65	5 8 13	2.6 B	19
-70			
-75	3 5 8	1.2 B	22
-80 385.4 CLAYEY SILT: Olive gray and gray, low plastic (A-4)	8 13 20	2.9 D	18
-85			

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

ROUTE FAP 314 DESCRIPTION Illinois Route 4 over East Fork of Silver Creek - Bridge Replacement LOGGED BY SCI
Date 05/12/08

SECTION 110BR-1 LOCATION Approx. 1/2 mile N of U.S. Rt 40/Sections 7NE & 8NW, TWP 3N, RNG 6W

COUNTY Madison DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 060-0109
Station
BORING NO. B-2
Station 754+88
Offset 18 ft Rt.
Ground Surface Elev. 462.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 438.9 ft
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SILT: Olive gray and gray, low plastic (A-4) (continued)			
380.4 SANDY CLAY: Brown, low plastic (parent material is clayey shale/shale) (A-6)			
Driller observed rough drilling at about 83 feet. 378.6 SANDSTONE: Gray, some silt	50/5" 50/1"	1.5 P	22
-95 No recovery 373.8 Boring terminated at 88.5 feet.	50/1"		
-100			

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 = $FILES$	USER NAME =	DESIGNED - FLL	REVISED - -
		CHECKED - GBR	REVISED - -
	PLOT SCALE =	DRAWN - JRP	REVISED - -
	PLOT DATE = $DATE$	CHECKED - GBR	REVISED - -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers
IL Design Firm No. 184-01907

SOIL BORING LOGS
STRUCTURE NO. 060-0344
SHEET NO. 25 OF 25 SHEETS

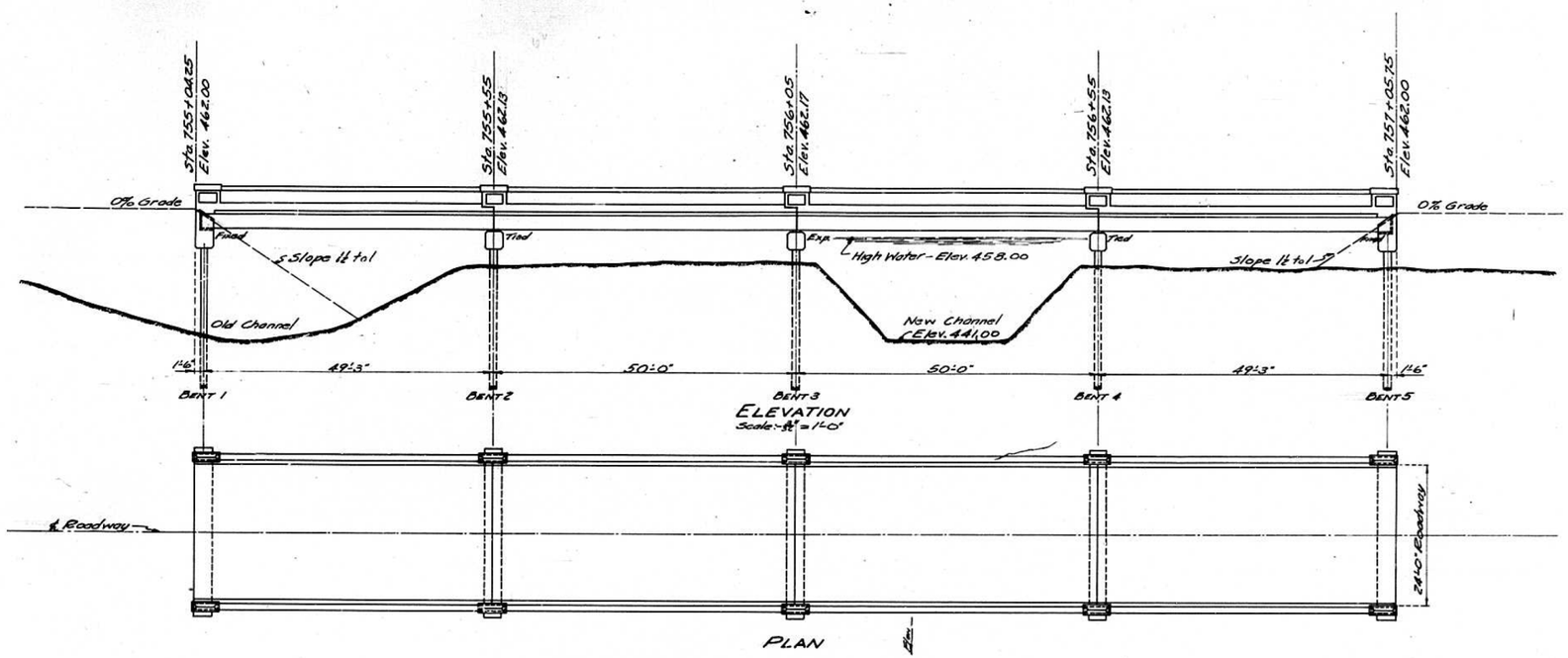
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	61
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

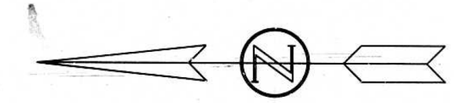
No Existing Structure.
B.M. – N. & W. in 12" Elm 50' Rt. Sta. 749+75 – Elev. 453.22
N. & W. in 16" Elm 45' Rt. Sta. 757+55 – Elev. 452.96

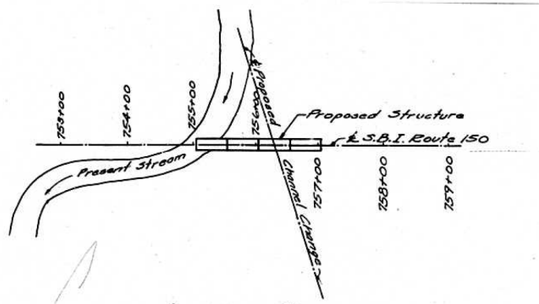
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
150	C-110B	Madison	47	46
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		173

SHEET NO. 1
2 SHEETS







NOTES:-
Contractor to drive two test piles as directed by the engineer before casting piles.
Channel change to be made by the paving contractor.

STANDARD	COMPUTED	S. Barnovitz
	CHECKED	J.C. Anderson
	DRAWN	S. Barnovitz
	CHECKED	J.C.A.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 11-14-1932
A. T. Goldbach, Bridge Engineer
PASSED
Engineer of Design
APPROVED
Chief Highway Engineer

S.B.I. ROUTE 150 SECT. 110-B
MADISON COUNTY
STA. 756+05.

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1933 ORIGINAL CONSTRUCTION

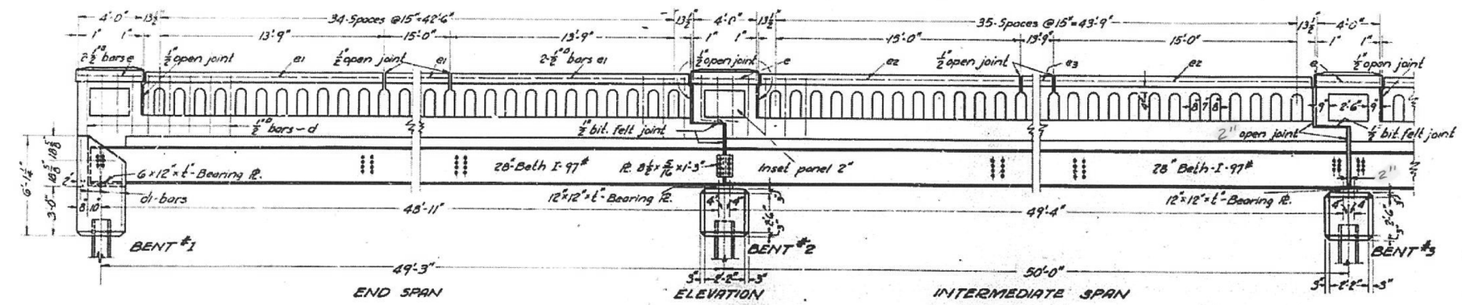
SCALE: NA | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

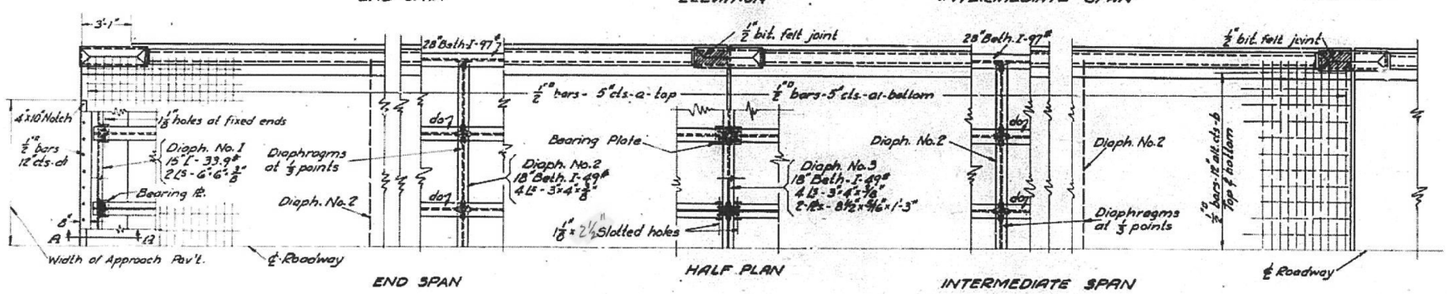
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	62
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

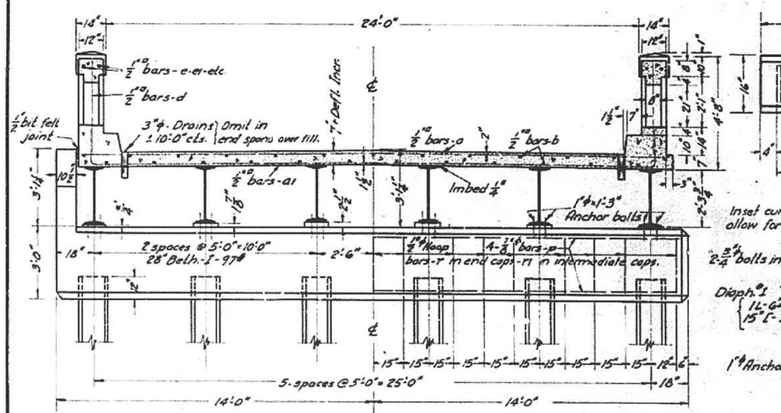
SHEET NO. 2
2 SHEETS

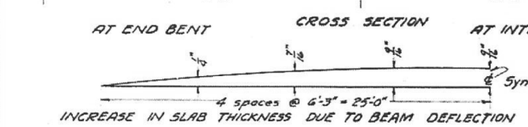
ROAD DIST. NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
150	C-110 B	Madison	47	47
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	173	

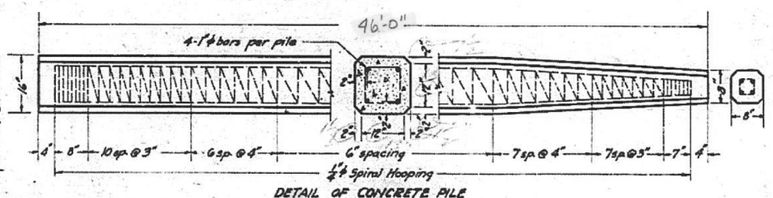
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

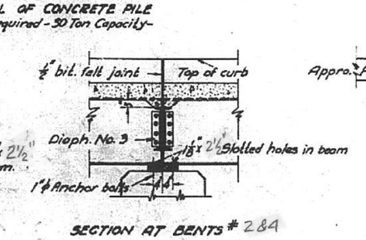


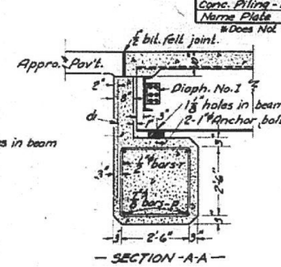


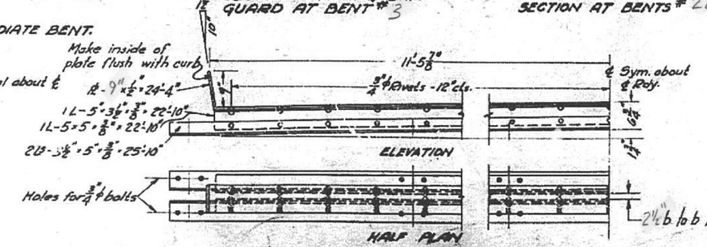












— Notes —

Class "X" concrete to be used throughout.

All reinforcing steel shall be wired securely in place before concrete is poured.

Corrugated beams of the same depth and section modulus may be substituted.

Each pile to have a minimum capacity of 30 tons.

One test pile to be driven at each of stations

3/4" ϕ rivets to be used unless noted. Holes punched 13/16" unless noted.

Inspection by Illinois Division of Highways before painting.

Paint (See Spec's) One coat in shop, two in field.

Concrete floors shall be given a smooth finish according to the Spec's for finishing the surface of floor slabs on concrete bridges.

Anchor bolts to be placed before connecting diaphragm over bents.

BILL OF MATERIAL - 4 SPANS -

Bars	No.	Size	Length
a	182	1/2" ϕ	26'-0"
a1	182	1/2" ϕ	27'-2"
b	209	1/2" ϕ	26'-0"
d	332	1/2" ϕ	31'-9"
d1	64	1/2" ϕ	31'-9"
e	20	1/2" ϕ	31'-9"
e1	24	1/2" ϕ	14'-6"
e2	16	1/2" ϕ	15'-6"
e3	8	1/2" ϕ	13'-6"
P	20	3/4" ϕ	27'-6"
f	32	1/2" ϕ	12'-0"
f1	8	1/2" ϕ	11'-2"
* Reinforcing Steel - Lbs.			30,260
Class "B" Conc. (Cont.) Cu. Yds.			45.3
Class "X" Conc. (Rails) Cu. Yds.			29.0
Class "X" Conc. (Spans) Cu. Yds.			143.5
Structural Steel - Lbs.			138,320
Conc. Piling - Lin. Ft.			1280
Name Plate			1

* Does Not include steel in piling.

STANDARD	COMPUTED — J.C. Anderson	EXAMINED 11-14- 1932
	CHECKED — M.P. Superak	BRIDGE ENGINEER
	DRAWN — J.C.A.	PASSED
	CHECKED — M.P.S.	ENGINEER OF DESIGN
SPECIAL	ASSEMBLED — S. Bornovitz	APPROVED
	CHECKED — J.C. Anderson	CHIEF HIGHWAY ENGINEER

Traced from Standard 1400 - Changed to 24'-0" Roadway - J.C.A. - Checked - M.P.S.
Exp Device Rev. 11-10-32 - J.C.A - Ch. S.B.

S.B.I. ROUTE 150 SECT. 110-B
MADISON COUNTY
STA. 756+05

H-15 + Impact. 50'+24' 1422

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI05DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1933 ORIGINAL CONSTRUCTION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	63
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

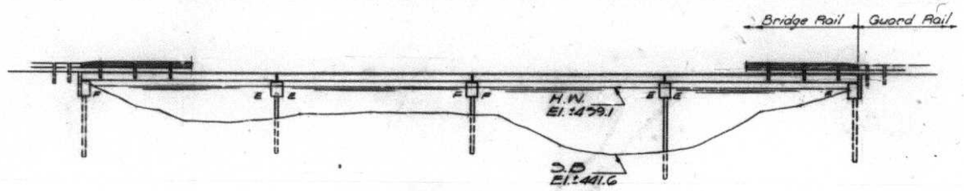
B.M.: a cut in South west bankwall of bridge Sta. 757+05.78 El. 466.95

Exist. Structure: Built 1933 on S.B.I. Plt. 130 Sec. 110B, Sta. 756+03
Superstructure: 1 Beam, Substructure: RC. Pile Bents.
Superstructure to be removed and structure widened by Bridge Contractor using Stage Construction as shown.
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

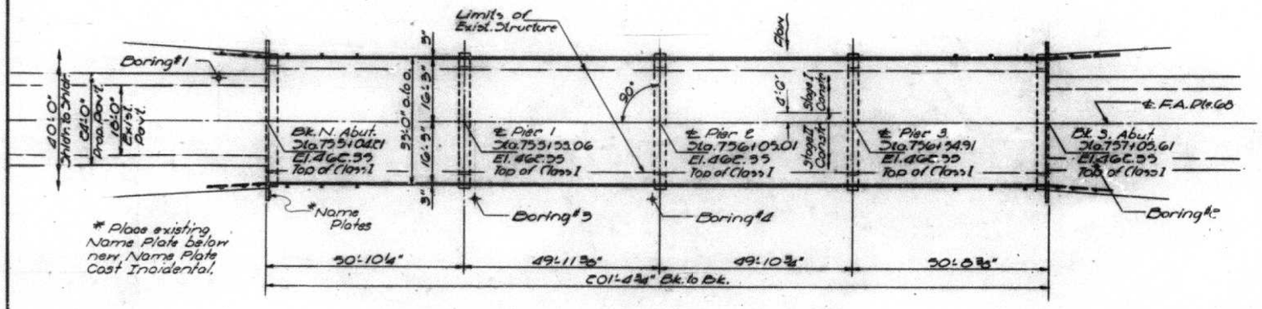
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 314	110BR	MADISON	38	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
8 SHEETS



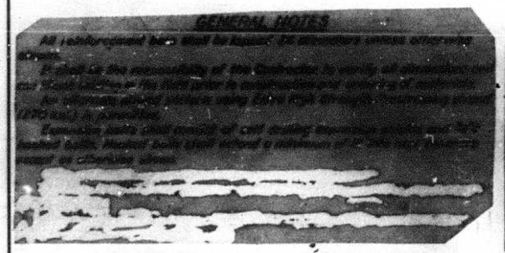
ELEVATION

N



* Place existing Name Plate below new Name Plate Cost Incidental.

PLAN

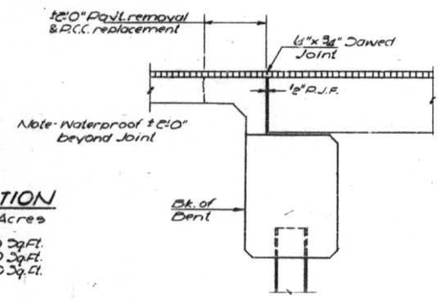


Concrete Piles	111		111
	1		8
			1
		5	5
		220	220
	3.0	30.0	33.0
		470	470
	6578		6578
	401		401
	280	1080	1960
Waterproofing Membrane System	202		202
Name Plates	738		738
Preformed Joint Sealer 2½"	1		1
Structural Steel	Lin. Ft. 67		67
Portland Cement Mortar Fairing Course	Lbs. 4680		4680
	Lin. Ft. 2000		2000

The top surface of the beams shall be finished in accordance with Article 505.05 of Standard Spec's except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

DESIGNED Suresh T. Desai
CHECKED James Powell
J. SCHNEIDER
DRAWN JAD
CHECKED JP

EXAMINED June 15 1971
PASSED
APPROVED
DIRECTOR OF HIGHWAYS



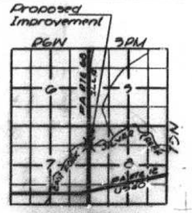
SEC. AT ABUT

WATERWAY INFORMATION
Drainage Area - - - 59,677 Acres
Character -
Present Opening - - - - - 1650 Sq. Ft.
Required Opening - - - - - 1650 Sq. Ft.
Proposed Opening - - - - - 1650 Sq. Ft.
Q(50) = 10400 c.f.s.

DESIGN STRESSES
FIELD UNITS
f_c = 1200 psi - Super.
f_c = 1000 psi - Sub.
f_s = 20,000 psi - Reinf.
n = 10

PRECAST PRESTRESSED UNITS
f'_c = 5000 psi
f'_{ci} = 4000 psi
f_s = 189,000 psi - 7/16" ϕ Strands
f_{si} = 173,600 psi - 7/16" ϕ Strands

Design Specifications 1969 AASHO as applicable
LOADING H20-44



GENERAL PLAN & ELEVATION
F.A. RTE. 68
OVER EAST FORK OF SILVER CREEK
F.A. ROUTE 68
SECTION 110BR
MADISON COUNTY
STATION 756+03

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI05\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

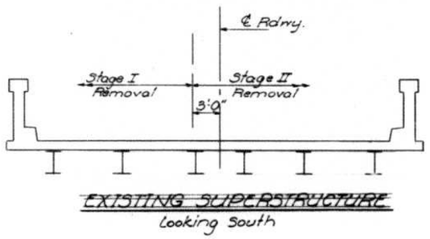
SCALE: NA | SHEET NO. 1 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	64
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

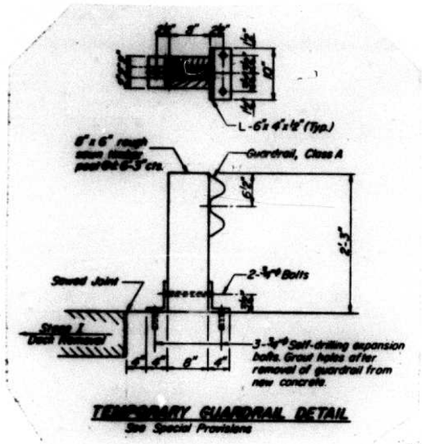
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 314	110BR	MADISON	38	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
8 SHEETS



EXISTING SUPERSTRUCTURE
Looking South

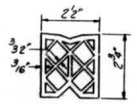


TEMPORARY GUARDRAIL DETAIL
See Special Provisions

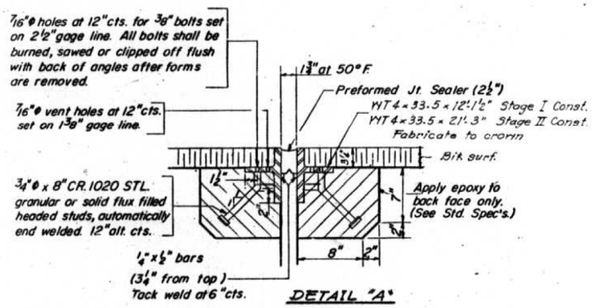
STATION 75G+05
REBUILT IN BY
STATE OF ILLINOIS
F.A. RT. 68 SEC. 110 BR

LOADING HS 20

NAME PLATE
See Std. 2113-1



PREFORMED JOINT SEALER (2½")



DETAIL "A"

PREFORMED JT. SEALER

Note: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and jt's. grouted.
See end of beam detail for reinf. on sheet # 3 or sheet # 4.

DESIGNED	Suresh T. Desai	
CHECKED	James Powell	
DRAWN	J. SCHNELLER	
CHECKED	JP	

EXAMINED — JUNE 15 1971
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

F.A. RT. 68 SEC. 110BR
MADISON COUNTY
STA. 75G+05

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED105\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

SCALE: NA | SHEET NO. 2 OF 8 SHEETS | STA. | TO STA.

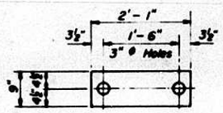
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	65
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

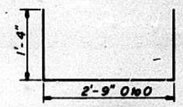
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 314	110BR	MADISON	38	21

SHEET NO. 3
8 SHEETS

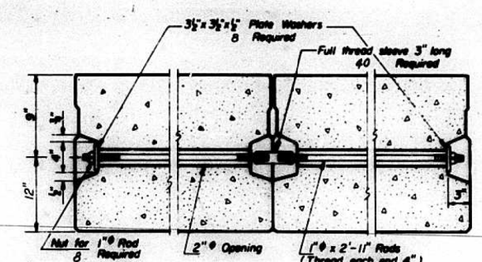
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



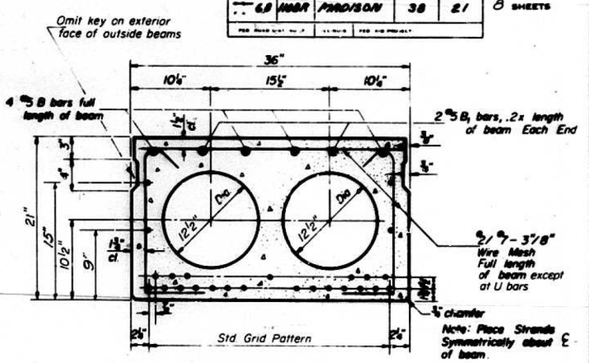
FABRIC BEARING PAD



U BAR

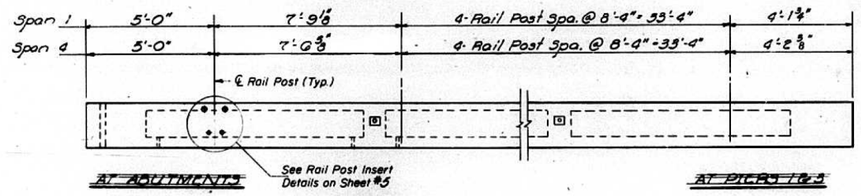


TYPICAL TRANSVERSE TIE ASSEMBLY

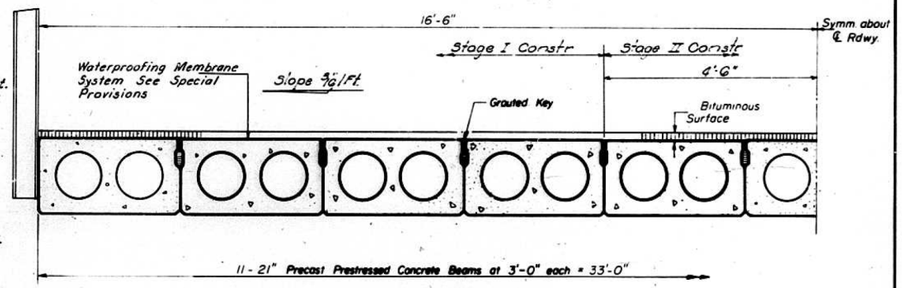


TYPICAL SECTION

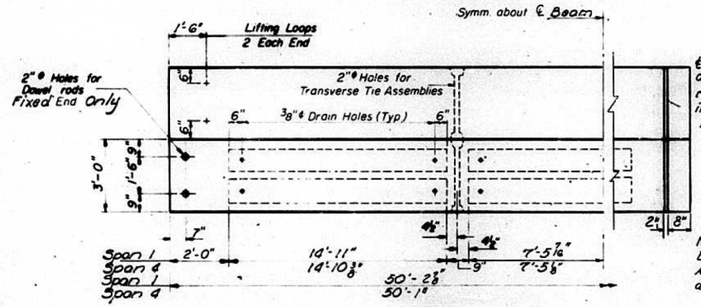
½" ø Strands Each Strand Stressed to 18,900 lbs.
14 Strands 13" up 7 Strands 3½" up 2 Strands 9" up
2 Strands 15" up



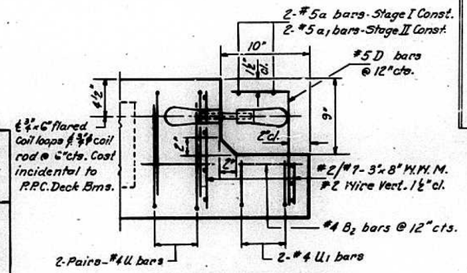
ELEVATION



HALF CROSS SECTION
(Looking South)

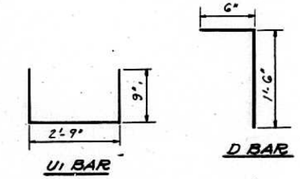


PARTIAL PLAN



END OF BEAM (EXP END)

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

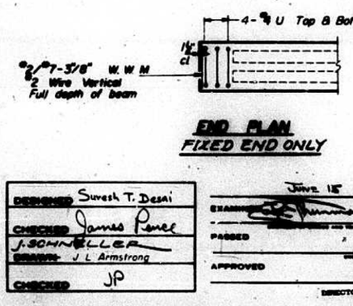


U1 BAR

D BAR

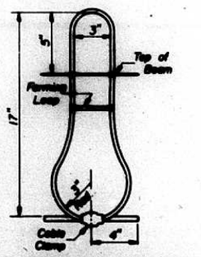
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	8	#5	13'-3"	
a1	8	#5	20'-9"	
Class X Concrete			Cu. Yds.	3.0
Reinforcement Bars			Lbs.	280
Precast Prestressed Concrete Deck Beams (21")			Sq. Ft.	6598
Removal of Existing Superstructure			Each	1

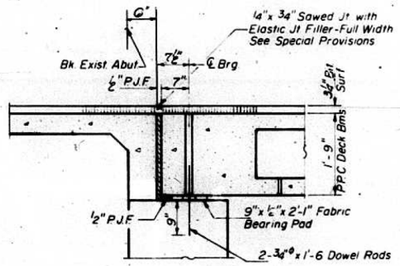


END PLAN
FIXED END ONLY

PD-1-S 11-19-65 Rev 5-20-68



LIFTING LOOP DETAIL



SECTION THRU ABUT.

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand.
The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.109 sq. in.
Lifting loops shall be ⅝" diameter, 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 29,000lbs.
The 1" ø 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 dowel anchors shall be drilled into sub-structure. Grout dowels at fixed end.
Steel for dowel rods shall be A.S.T.M. A-306 or A.S.T.M. A-615 Transverse tie rods shall be A.S.T.M. A-306, Grade 70-80.
After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.
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."

SUPERSTRUCTURE
SPANS 1 & 4
FA RT 68 SEC 110 BR
MADISON COUNTY
STA 756+05

SR-2 21" PPC Dk Bms

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI65\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

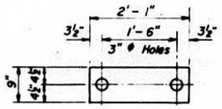
SCALE: NA | SHEET NO. 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	66
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

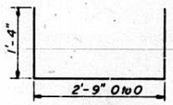
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.. 60	110BR	MADISON	38	22
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

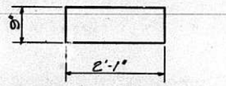
SHEET NO. 4
8 SHEETS



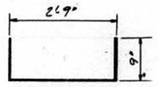
FABRIC BEARING PAD



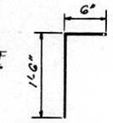
U BAR



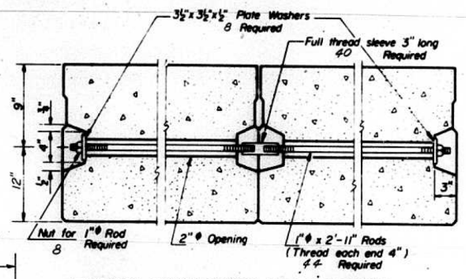
GRAPHITED ASBESTOS BEARING PADS



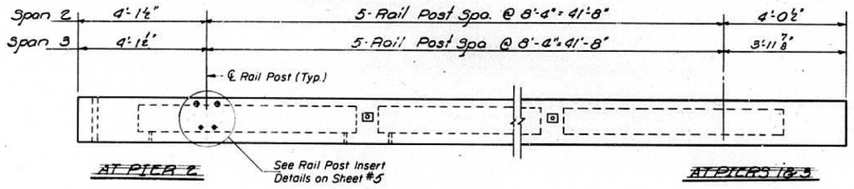
U1 BAR



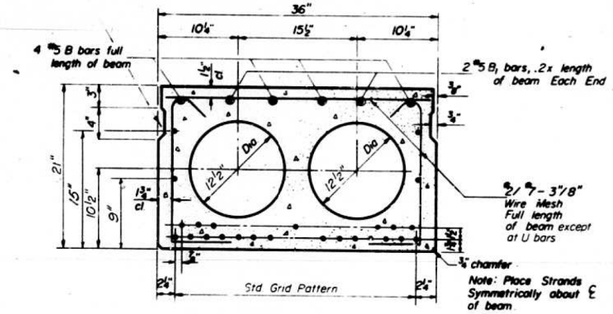
D BAR



TYPICAL TRANSVERSE TIE ASSEMBLY

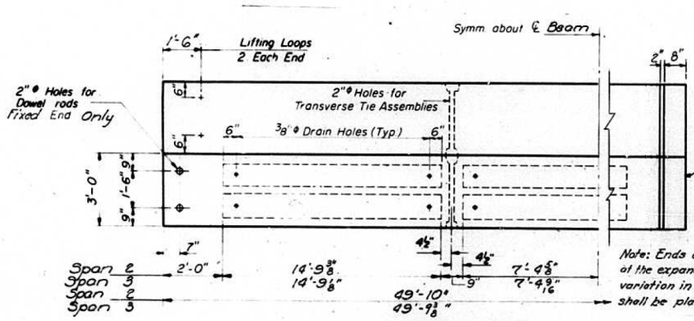


ELEVATION

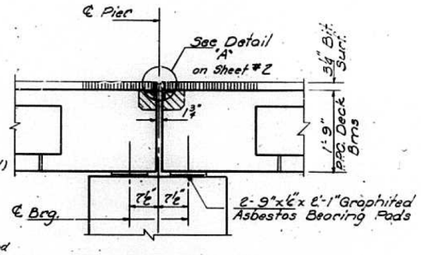


TYPICAL SECTION

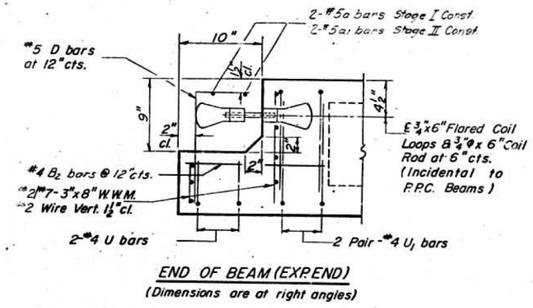
7/16" ⌀ Strands Each Strand Stressed to 18,900 lbs.
14 Strands 1½" up 7 Strands 3½" up 2 Strands 9" up
2 Strands 15" up



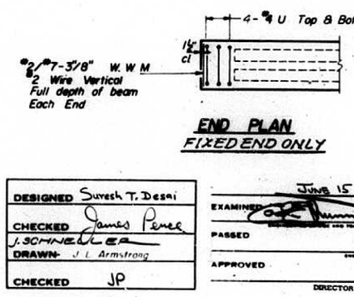
PARTIAL PLAN



SECTION THRU PIERS 1&3



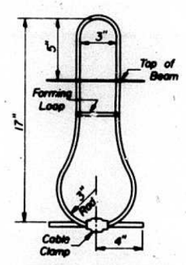
END OF BEAM (EXP.END)
(Dimensions are at right angles)



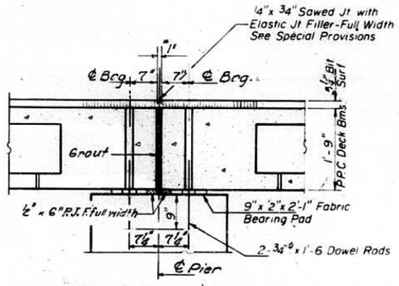
END PLAN
FIXED END ONLY

DESIGNED	Suresh T. Desai	
CHECKED	James Power	
J. SCHNEIDER		
DRAWN	J. L. Armstrong	
CHECKED	JP	
EXAMINED	June 15 1971	
PASSED		
APPROVED		
		DIRECTOR OF HIGHWAYS

PD-1-S 11-19-65 Rev 5-20-68



LIFTING LOOP DETAIL



SECTION THRU PIER 2

*"I" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar between P.J.F.

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand.
The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.109 sq. in.
Lifting loops shall be 5/8" diameter, 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 29,000 lbs.
The 1"⌀ 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 dowel anchors shall be drilled into sub-structure. Grout dowels at fixed end.
Steel for dowel rods shall be ASTM A-306 or ASTM A-615.
Transverse tie rods shall be ASTM A-306, Grade 70-80.
After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.
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."

SUPERSTRUCTURE
SPANS 2 & 3
F.A.P. RT. 68 SEC. 110BR
MADISON COUNTY
STA. 756+05

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1605\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

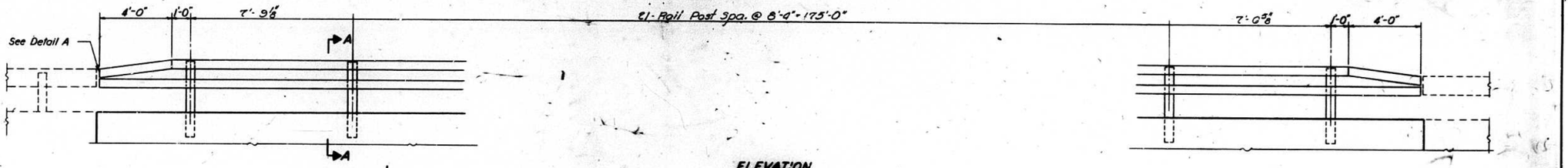
SCALE: NA | SHEET NO. 4 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	67
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

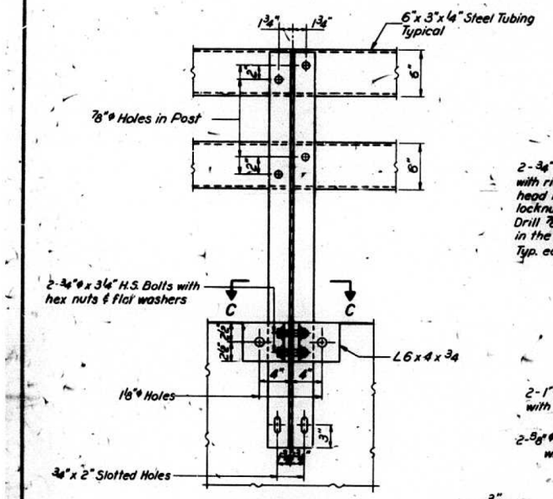
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

68	110BR	MADISON	94	23

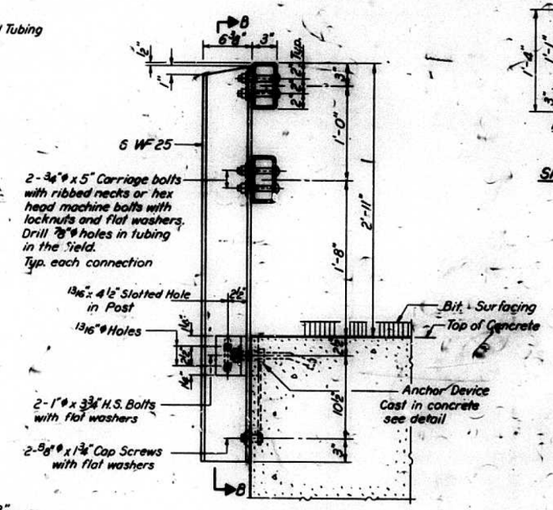
SHEET NO. 5 OF 8 SHEETS



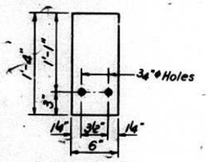
ELEVATION
Showing inside face of railing



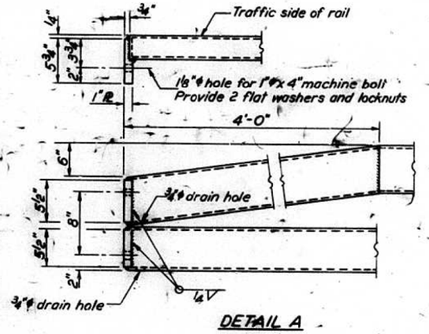
SECTION B-B



SECTION A-A



SHIM DETAIL



DETAIL A

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-441.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-385. Galvanized rail shall not be painted.

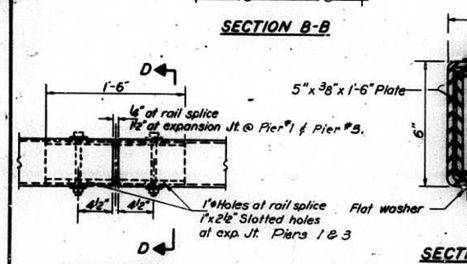
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE N

All field drilled holes shall be coated with an approved zinc rich paint before erection.

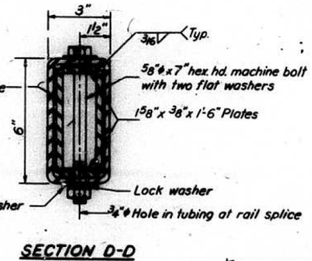
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ½" fabric bearing pad between the post and concrete.

The ¾"ø high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1"ø high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional ⅛ turn.

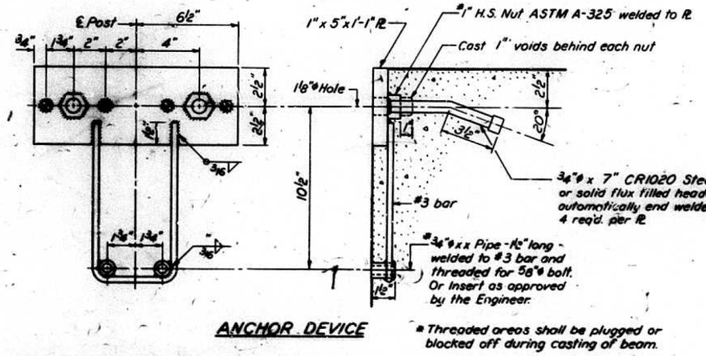
For multi-span bridges, sufficient ¼" x 6" x 1'-4" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.



RAIL SPLICE

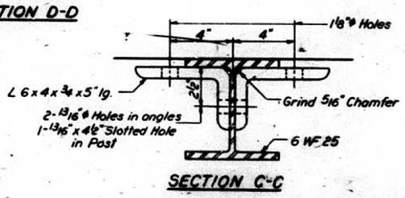


SECTION D-D



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.



SECTION C-C

BILL OF MATERIAL

Item	Unit	Quantity
STEEL RAILING, TYPE N	Lin. Ft.	307

TYPE N STEEL RAILING
~~FA RT. 68 SEC. 110BR~~
~~MADISON COUNTY~~
~~STA. 136+05~~

DESIGNED	Suvesh T. Desai	
CHECKED	James Powell	
J. SCHNELLER		
DRAWN	J.L. Armstrong	
CHECKED	JP	

EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

(9'-0" Max. Post Spacing)

R-2

exp. Jt @ Piers #1 & #3

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI\Data\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

SCALE: NA | SHEET NO. 5 OF 8 SHEETS | STA. | TO STA.

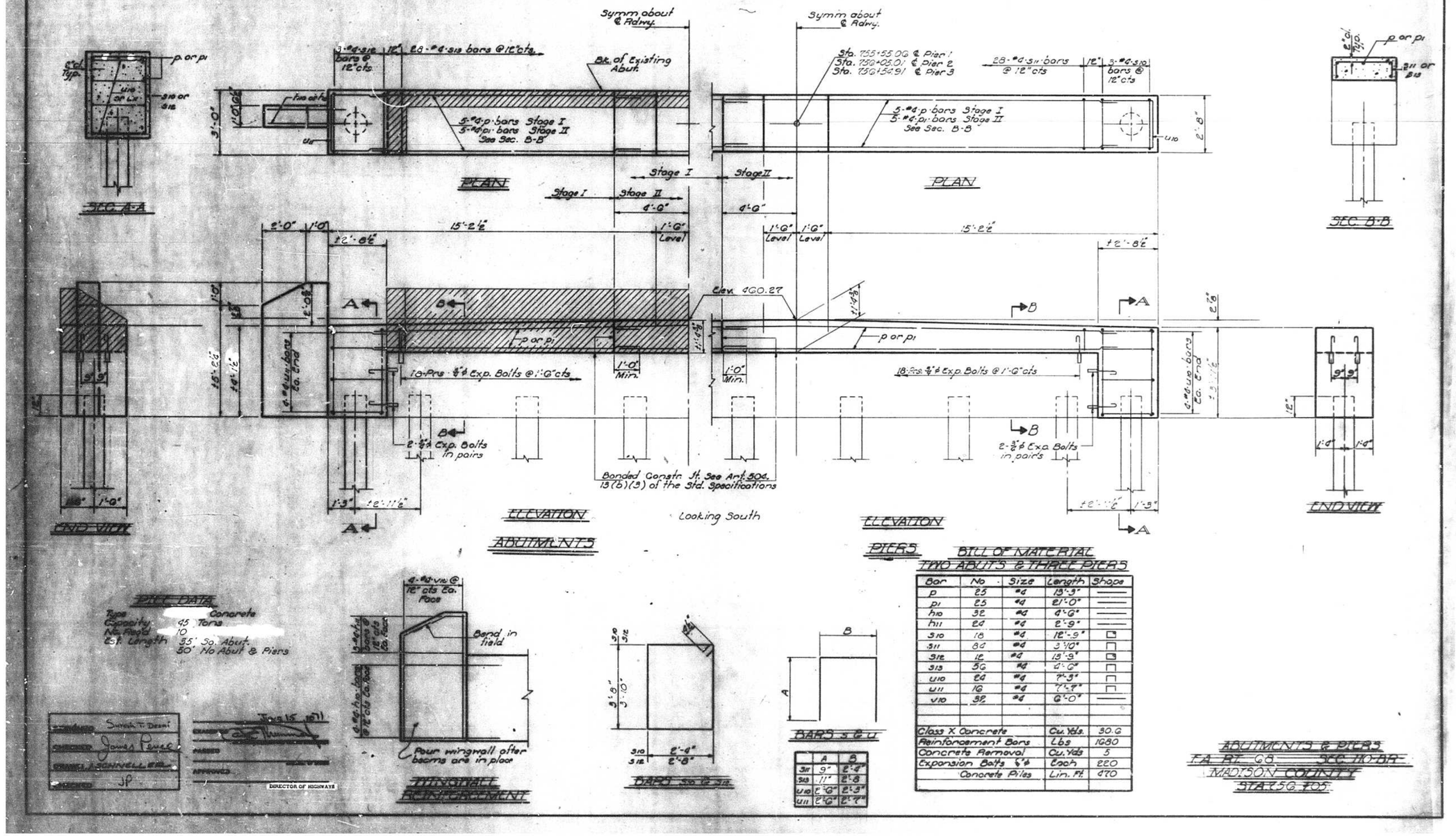
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	68
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Notes:
Hatched area indicates Concrete Removal.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers as noted.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 68	110BR	MADISON	38	24
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
8 SHEETS



PILE DATA
Type Concrete
Capacity 45 Tons
No. Piers/Abut 10
Est. Length 35' So. Abut.
50' No Abut & Piers

BILL OF MATERIAL
TWO ABUTS & THREE PIERS

Bar	No.	Size	Length	Shape
p	25	#4	13'-3"	
p1	25	#4	21'-0"	
h10	32	#4	4'-6"	
h11	24	#4	2'-9"	
s10	18	#4	12'-9"	
s11	84	#4	3'10"	
s12	12	#4	13'-9"	
s13	36	#4	4'-6"	
u10	24	#4	7'-9"	
u11	16	#4	7'-7"	
v10	32	#4	6'-0"	
Class X Concrete		Cu. Yds.	30.6	
Reinforcement Bars		Lbs	1080	
Concrete Removal		Cu. Yds	5	
Expansion Bolts ¾" ϕ		Each	220	
Concrete Piles		Lin. Ft.	470	

	A	B
s11	9"	2'-4"
s13	11"	2'-8
u10	2'-0"	2'-3"
u11	2'-0"	2'-7"

ABUTMENTS & PIERS
F.A. RT. 68 SEC. 110-BR
MADISON COUNTY
STA. 756+05

Submitted: Steven T. Dossi
Checked: James Powell
Checked: J. O'Neill
Approved:
Date: Dec 15 1971
Designed: JP

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI\Sheets\plm10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN Data\GADsheets\plm10507a.dgn	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

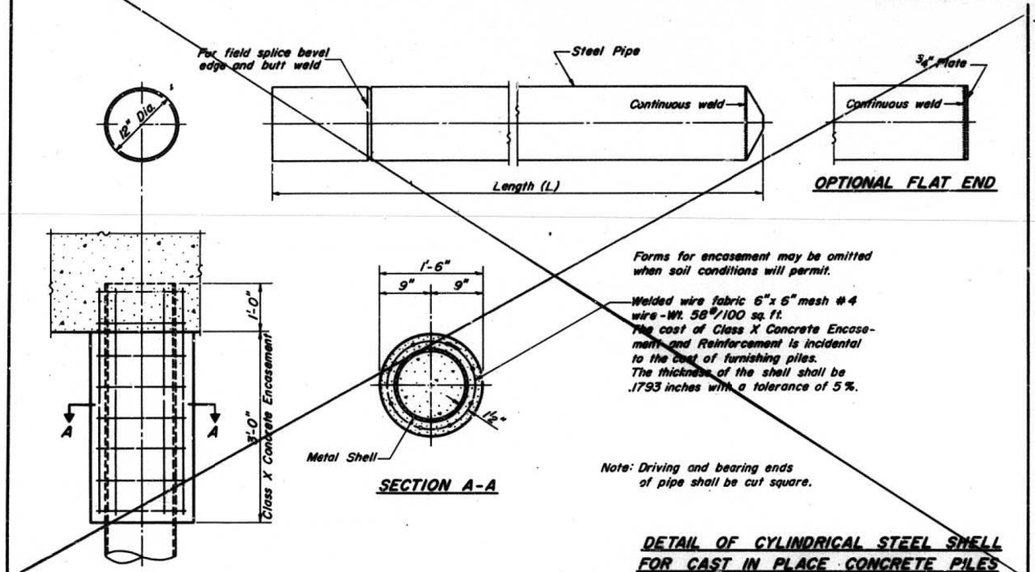
SCALE: NA | SHEET NO. 6 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	69
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68 110BR	MADISON	38	25

SHEET NO. 7
8 SHEETS



OPTIONAL FLAT END

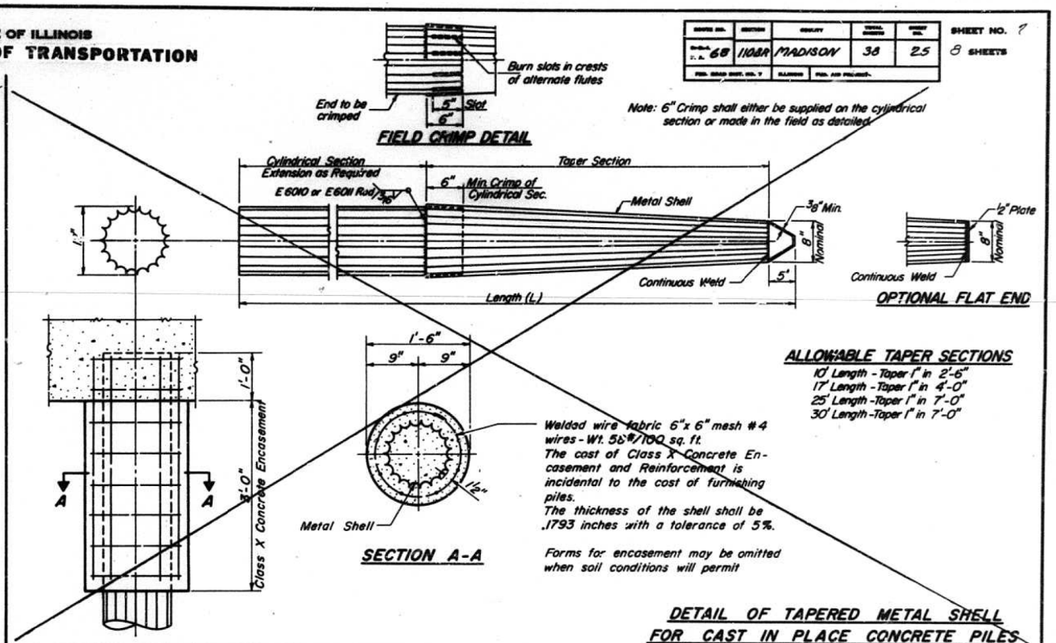
SECTION A-A

Forms for encasement may be omitted when soil conditions will permit.

Welded wire fabric 6"x 6" mesh #4 wires - Wt. 58#/100 sq. ft. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles. The thickness of the shell shall be .1793 inches with a tolerance of 5%.

Note: Driving and bearing ends of pipe shall be cut square.

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



FIELD CRIMP DETAIL

OPTIONAL FLAT END

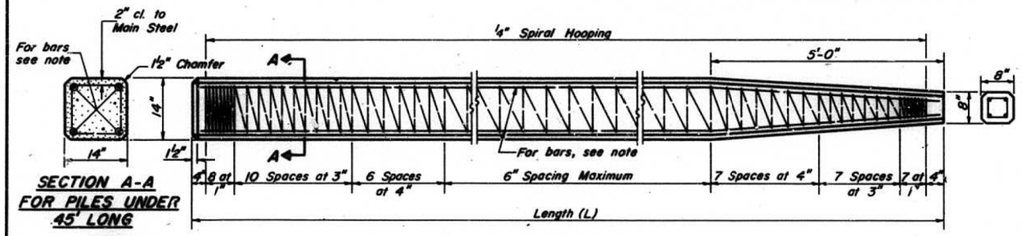
SECTION A-A

ALLOWABLE TAPER SECTIONS
10' Length - Taper 1" in 2'-6"
17' Length - Taper 1" in 4'-0"
25' Length - Taper 1" in 7'-0"
30' Length - Taper 1" in 7'-0"

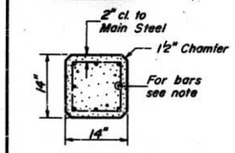
Welded wire fabric 6"x 6" mesh #4 wires - Wt. 58#/100 sq. ft. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles. The thickness of the shell shall be .1793 inches with a tolerance of 5%.

Forms for encasement may be omitted when soil conditions will permit

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONCRETE PILES



SECTION A-A FOR PILES UNDER 45' LONG



SECTION A-A FOR PILES 45' OR MORE

Note: For 14" Piles 45' long or more use 8-#8 bars 4 for the full length and 4 to the point of bevel. For 14" Piles under 45' long use 4-#9 bars full length.

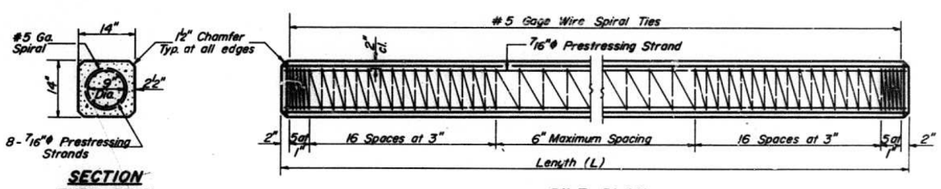
Handling: For Pile lengths up to 45', use two slings placed at a distance of 0.21 L from each end.
For Piles longer than 45', use three slings placed at a distance of 0.12 L from each end and at mid-point of pile.

DESIGNED	Suvesh T. Desai
CHECKED	James Rice
DRAWN	J. SCHNELLER
CHECKED	JP

EXAMINED — JUNE 15 1971
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

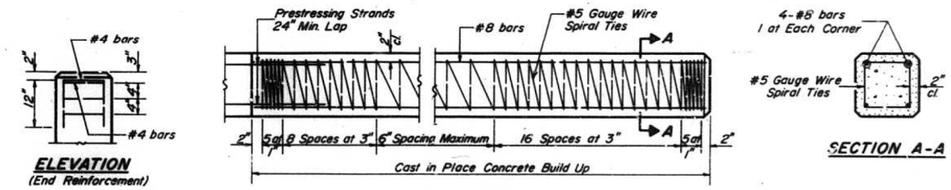
X-2 2-14-69

DETAIL OF PRECAST CONCRETE PILES



SECTION THRU PILE

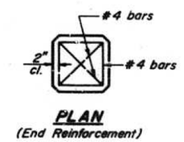
PILE PLAN



ELEVATION (End Reinforcement)

PILE BUILD UP

SECTION A-A



PLAN (End Reinforcement)

DESIGN STRESSES
fc' = 5,000 psi.
fci = 4,000 psi.
fs' = 268,000 psi. (31,000 lbs.)
fs' = 188,000 psi. (21,700 lbs.)

Note: Prestressing steel shall be non-galvanized extra high strength stress-relieved 7 wire strand. The nominal diameter shall be 7/16" and the minimum nominal cross-sectional area shall be 0.1155 square inch.

Handling: For pile lengths up to 65', use two slings placed at a distance of 0.21L from each end. For piles longer than 65', use three slings placed at a distance of 0.12 L from each end at midpoint of pile.

PILE DETAILS
F.A. RT. 66 SEC. 110BR
MADISON COUNTY
STA. 756+05

DETAIL OF PRECAST PRESTRESSED CONCRETE PILES

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI05\DRAWNData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

SCALE: NA | SHEET NO. 7 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	70
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 68	110BR	MADISON	38	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. A.D. PROJECT		

SHEET NO. 8 OF 8 SHEETS

COUNTY Madison
Boring No. 1 N.Abut.
Station 754+92
Offset 11' Rt. ℄
Ground Surface 461.9

Elevation	Soil	N	Qu t/s.f.	w (%)
0	BROWN SILTY CLAY			
	DAMP, STIFF	11	1.30 S	21
457.4±				
-5				
	DAMP, MEDIUM	6	0.81 B	24
	GRAY CLAY			
	DAMP, MEDIUM	4	N.S.	-
-10				
	DAMP, MEDIUM	6	-	22
	DAMP, SOFT	5	0.46 B	30
447.5 ▽				
-15				
	WET, SOFT	3	0.35 B	32
	DAMP, MEDIUM	4	0.55 B	33
-20				
	DAMP, SOFT	3	0.43 B	37

Surface Water El. —
Groundwater El. at Completion —
After — Hours

Elevation	Soil	N	Qu t/s.f.	w (%)
	DAMP, MEDIUM	4	0.52 B	27
-25				
	WET, SOFT	3	0.26 B	30
	GRAY SILT SAND TILL (ABUNDANCE OF WOOD FRAGMENTS)			
	DAMP, SOFT	3	0.39 B	25
-30				
	DAMP, MEDIUM	3	0.62 B	26
	DAMP, MEDIUM	6	0.85 B	22
-35				
	DAMP, MEDIUM	6	0.98 B	23
	DAMP, MEDIUM	9	0.65 S	31
422.4±				
-40				
	DAMP, STIFF	20	1.66 S	20
	DAMP, STIFF	90	1.83 S	21
-45				
	DAMP, STIFF	16	1.43 S	21
	DAMP VERY STIFF	34	3.75 S	17
-50				
	DAMP VERY STIFF	33	2.80 S	17
	GRAY CLAY TILL			
	DAMP, HARD	56	N.S.	-
-55				
	DAMP, HARD	43	N.S.	-
	DAMP VERY STIFF	36	2.28 S	19
-60				
400.5	DAMP VERY STIFF	36	3.59 S	18

END OF BORING

COUNTY Madison
Boring No. 2, S.Abut.
Station 757+17.8
Offset 11' Rt. ℄
Ground Surface 461.9

Elevation	Soil	N	Qu t/s.f.	w (%)
0	BROWN AND GRAY SILTY CLAY			
	DAMP, STIFF	10	1.63 S	22
-5				
	DAMP, STIFF	11	N.S.	-
	DAMP, MEDIUM	15	0.85 S	24
452.5±				
-10				
	DAMP, STIFF	15	1.37 B	26
	GRAY SILTY CLAY			
	DAMP, STIFF	11	1.82 B	24
445.0 ▽				
-15				
	DAMP, STIFF	13	1.33 B	27
	DAMP VERY STIFF	10	2.77 B	23
-20				
	DAMP, MEDIUM	10	0.91 B	26
440.0				

Surface Water El. —
Groundwater El. at Completion —
After — Hours

Elevation	Soil	N	Qu t/s.f.	w (%)
	GRAY AND BROWN SILTY CLAY			
	DAMP, MEDIUM	8	0.78 B	29
-25				
435.0±	DAMP, MEDIUM	7	0.52 B	28
	GRAY CLAY TILL			
-30				
	DAMP, MEDIUM	6	0.91 B	25
	DAMP, MEDIUM	6	0.72 B	24
427.5±				
-35				
	DAMP, SOFT	50	0.31 S	15
	GRAY COARSE SAND AND GRAVEL			
425.0±	WET, DENSE	38	N.C.	-
	GRAY CLAY TILL			
-40				
	DAMP, STIFF	100+	1.14 S	20
	DAMP, STIFF	100+	1.73 S	22
418.0	DAMP, HARD	100+	5.70 S	16
-45	END OF BORING			

COUNTY Madison
Boring No. 3
Station 755+58
Offset 20' Rt. ℄
Ground Surface 454.3

Elevation	Soil	N	Qu t/s.f.	w (%)
0	BROWN AND GRAY SILTY CLAY			
	DAMP, MEDIUM	6	0.78 B	30
449.9±				
-5				
	DAMP, STIFF	8	1.30 B	21
	BROWN AND GRAY CLAY			
	DAMP, STIFF	10	1.63 B	22
444.9±				
-10				
	DAMP, MEDIUM	9	0.98 B	23
	WET, MEDIUM	6	0.81 B	26
441.3 ▽				
-15	BROWN AND GRAY CLAY TILL			
	WET, MEDIUM	9	0.65 B	27
	WET, STIFF	17	1.17 B	24
434.8±				
-20				
	WET, MEDIUM	5	0.52 B	24

Surface Water El. —
Groundwater El. at Completion —
After — Hours

Elevation	Soil	N	Qu t/s.f.	w (%)
	GRAY SILTY SANDY CLAY TILL			
	WET, STIFF	7	1.67 S	21
-25				
	WET, STIFF	10	1.39 S	23
	WET, MEDIUM	7	0.73 S	26
424.9±				
-30	GRAY MEDIUM SAND TILL			
	WET, MEDIUM	20	N.C.	-
422.4±				
	GRAY CLAY TILL			
	WET VERY STIFF	30	3.59 B	16
419.9±				
-35				
	WET, HARD	26	4.89 B	16
	GRAY AND BROWN CLAY TILL			
	WET VERY STIFF	25	3.59 B	17
-40				
	WET VERY STIFF	21	3.26 B	18
	WET VERY STIFF	25	3.59 B	14
409.9±				
-45				

FA 68
Section 110 BR-1
County Madison
Boring No. 3
Station 755+58
Offset 20' Rt. ℄

Elevation	Soil	N	Qu t/s.f.	w (%)
-45				
	WET VERY STIFF	24	3.26 B	15
	GRAY CLAY TILL			
	WET, HARD	28	4.24 B	17
-50				
	WET VERY STIFF	23	2.83 B	17
	WET VERY STIFF	24	2.83 B	18
-55				
	WET VERY STIFF	24	3.26 B	15
	WET VERY STIFF	26	3.10 B	19
-60				
393.3	WET, HARD	30	4.24 B	19

END OF BORING

COUNTY Madison
Boring No. 4
Station 756+03
Offset 20' Rt. ℄
Ground Surface 455.1

Elevation	Soil	N	Qu t/s.f.	w (%)
0	BROWN AND GRAY SILTY CLAY			
	DAMP, SOFT	5	0.69 B	25
-5				
	DAMP, MEDIUM	10	1.11 S	24
448.2±				
-10				
	DAMP, STIFF	13	1.30 B	24
	BROWN AND GRAY CLAY			
	DAMP, STIFF	9	1.17 B	26
	DAMP, MEDIUM	8	0.81 B	26
440.0 ▽				
-15				
	WET, MEDIUM	4	0.65 S	30
438.2±	BROWN AND GRAY SILTY CLAY			
	WET, MEDIUM	16	0.52 S	24
435.7±				
-20				
	WET, MEDIUM	5	0.78 B	27

Surface Water El. —
Groundwater El. at Completion —
After — Hours

Elevation	Soil	N	Qu t/s.f.	w (%)
	GRAY SILTY CLAY			
	WET, MEDIUM	9	0.81 S	27
-25				
	WET, STIFF	16	1.10 S	19
428.2±				
	GRAY COARSE SAND			
425.7±	WET, MEDIUM	12	N.C.	-
-30				
	GRAY CLAY TILL			
	WET VERY STIFF	29	2.08 S	21
423.2±				
	WET VERY STIFF	23	2.28 B	17
-35				
	WET VERY STIFF	24	2.83 B	19
	BROWN AND GRAY CLAY TILL			
	WET VERY STIFF	25	2.77 B	20
-40				
	WET VERY STIFF	21	2.61 B	19
	WET VERY STIFF	23	2.83 B	19
410.7±				
-45				
	WET VERY STIFF	23	2.83 B	16
	WET VERY STIFF	27	3.59 B	17
-50				
	WET VERY STIFF	26	3.59 B	18
	GRAY CLAY TILL			
	WET VERY STIFF	20	3.26 B	21
-55				
	WET VERY STIFF	35	3.91 B	18
	WET, HARD	36	4.24 B	17
-60				
394.0	WET, HARD	33	4.56 B	18

END OF BORING

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %.

Type failure:
B – Bulge Failure
S – Shear Failure
I – Estimated Value
P – Penetrometer

DESIGNED	Suresh T. Desai
CHECKED	JNP
DRAWN	J. SCHNEILLER
CHECKED	JNP

EXAMINED June 15 19 71
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

BORING DATA
F.A. RT. 68 SEC. 110 BR
MADISON COUNTY
STA. 756+05

1

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDIS\DRAWNData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
1971 BRIDGE DECK REPLACEMENT

SCALE: NA | SHEET NO. 8 OF 8 SHEETS | STA. | TO STA.

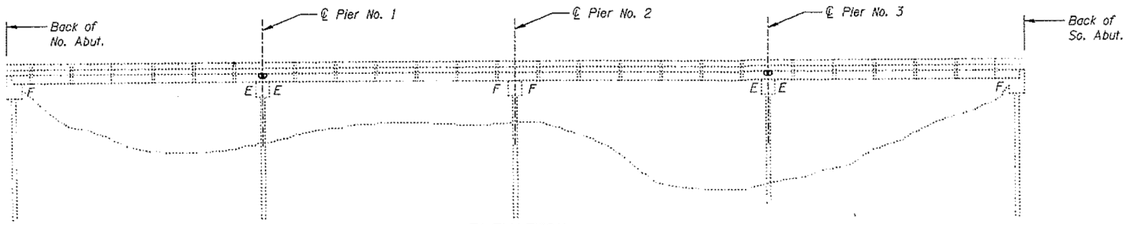
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	71
			CONTRACT NO. 76B50	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

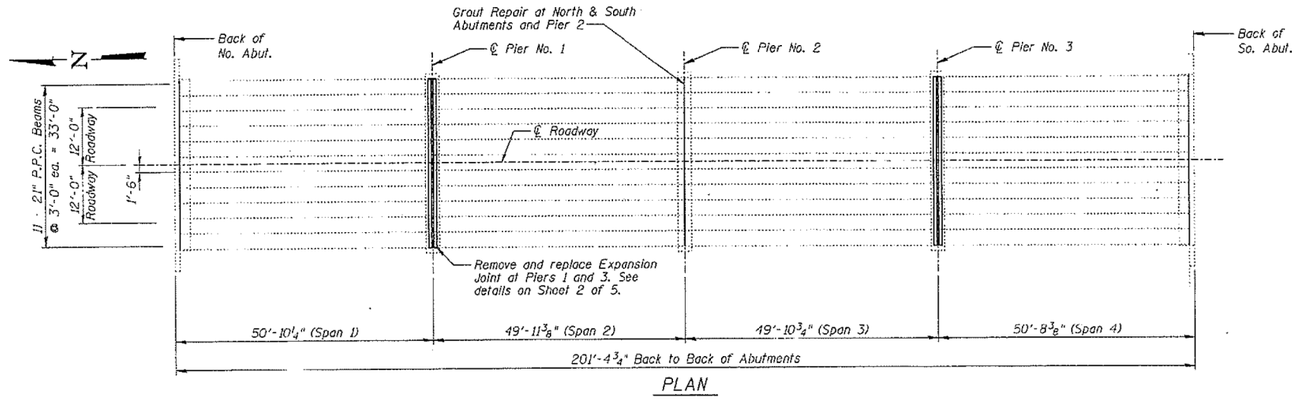
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Route 314	110 BR-1	MADISON	10	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
4 SHEETS

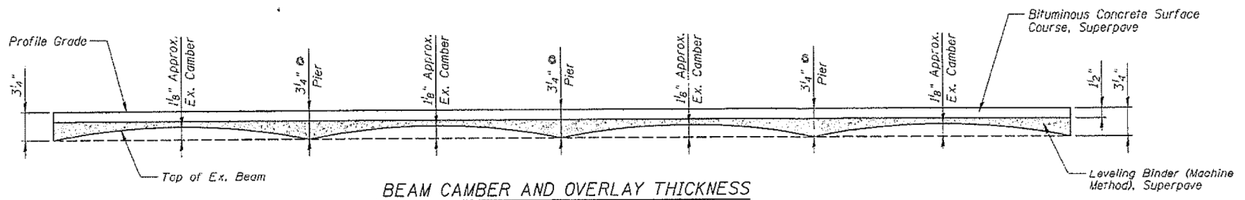
CONTRACT NO. 76B95



ELEVATION



PLAN



BEAM CAMBER AND OVERLAY THICKNESS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bituminous Concrete Surface Removal	Sq. Yd.	739
Concrete Removal	Cu. Yd.	3.0
Concrete Superstructure	Cu. Yd.	3.9
Reinforcement Bars, Epoxy Coated	Lbs.	410
Waterproofing Membrane System	Sq. Yd.	739
Bar Splicers	Each	12
Bearing Pad Adjustment	Each	88
Dowel Repair	Each	88
Grout Repair	Foot	99
Keyway Repair	Foot	505
Silicone Joint Sealer	Foot	66
Polymer Concrete	Cu. Ft.	4.8
Bituminous Concrete Surface Course, Superpave, Mix "D", N90	Tons	62
Leveling Binder (Machine Method), Superpave N90	Tons	50

GENERAL NOTES

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 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 bid price for the work.

The thickness of the bituminous overlay at abutments and piers shall be 3/4" and varies along each span as required to adjust for the existing profile grade and beam camber (see Beam Camber and Overlay Thickness detail).

Traffic shall be maintained on bridge for the duration of the repairs.

Existing reinforcement and coil loops which extend into the precast concrete beam are to be cleaned and incorporated into new construction except as noted.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Gr. 60.

Keyway Repair quantity has been estimated as 25% of total keyway for a plan quantity. Actual quantity shall be determined by the engineer after wearing surface is removed.

DUANE L. SIEGFRIED
4700
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

11/30/04
License Expiration Date

ILLINOIS Structural No.

DESIGNED	KPH
CHECKED	DLS
DRAWN	KPH
CHECKED	DLS

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS
5200 OAKLAND AVENUE • ST. LOUIS, MISSOURI
141 MARKET PLACE, STE. 208•FAIRVIEW HEIGHTS, ILLINOIS

PLAN & ELEVATION
ILLINOIS ROUTE 4
F.A.P. ROUTE 314
SECTION 110 BR-I
MADISON COUNTY
SN 060-0109

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED1@SDRAWNData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
2005 OVERLAY

SCALE: NA | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

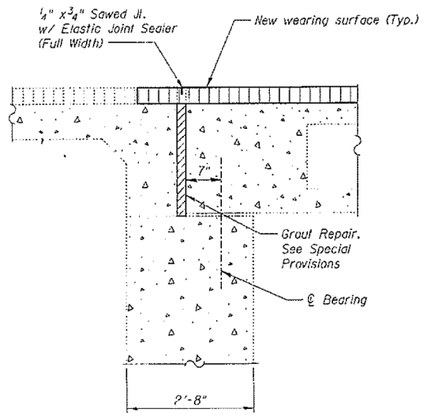
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	72
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

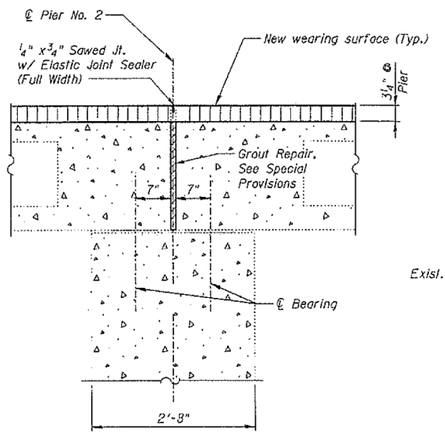
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Route 314	110 BR-1	MADISON	10	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
4 SHEETS

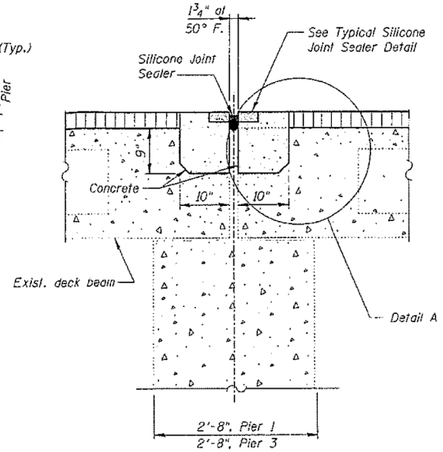
CONTRACT NO. 76B65



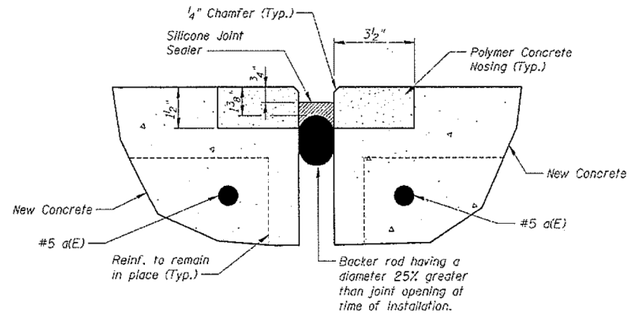
SECTION THRU NORTH AND SOUTH ABUTMENT AT ℄ ROADWAY



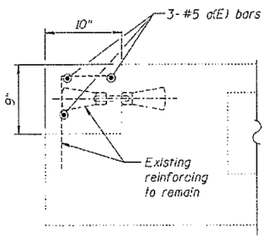
SECTION THRU PIER 2



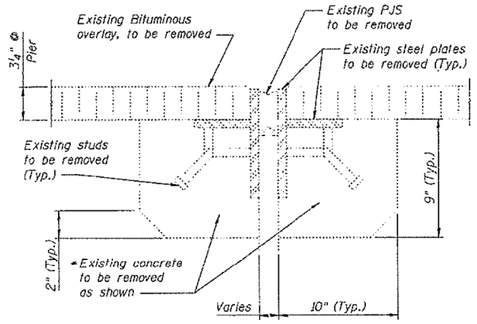
SILICONE JOINT SEALER WITH POLYMER CONCRETE NOSING AT PIER 1
(Pier 3 similar)



TYPICAL SILICONE JOINT SEALER DETAIL



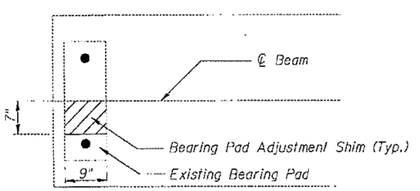
DETAIL A



Note:
Existing reinforcing bars and coil loops located within the blockout areas are to be cleaned and incorporated into new construction except as noted.

SECTION THRU EXISTING EXPANSION JOINT AT PIERS 1 & 3

(Cost for removal of studs, steel plates, PJS and bituminous to be included in the cost of Concrete Removal)



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	24	5	16'-4 1/2"	——
Concrete Removal			Cu. Yd.	3.0
Concrete Superstructure			Cu. Yd.	3.9
Reinf Bars, Epoxy Ctd			Lbs.	410
Grout Repair			Foot	99
Silicone Joint Sealer			Foot	66
Polymer Concrete			Cu. Ft.	4.8

DESIGNED	KPH
CHECKED	DLS
DRAWN	KPH
CHECKED	DLS

*Contractor should exercise extreme care during this concrete removal to ensure that PPC deck beam is not damaged.

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS
5200 OAKLAND AVENUE • ST. LOUIS, MISSOURI
141 MARKET PLACE, STE. 208•FAIRVIEW HEIGHTS, ILLINOIS

SUPERSTRUCTURE DETAILS
ILLINOIS ROUTE 4
F.A.P. ROUTE 314
SECTION 110 BR-I
MADISON COUNTY
SN 060-0109

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI05DRAWData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
2005 OVERLAY

SCALE: NA | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

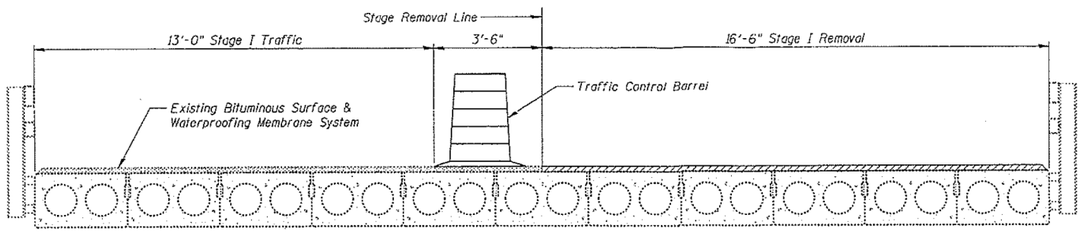
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	73
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Route 314	110 BR I	MADISON	10	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

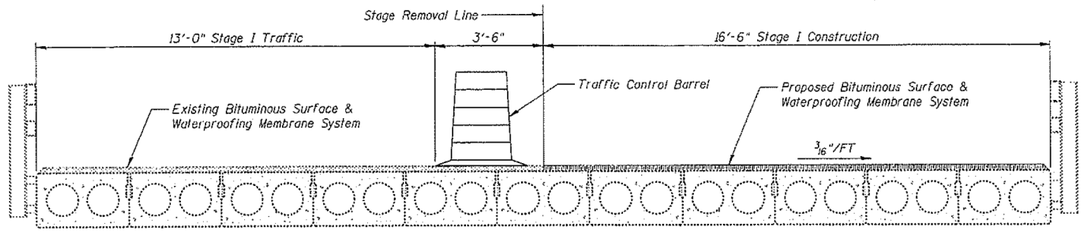
SHEET NO. 3
4 SHEETS

CONTRACT NO. 76B85

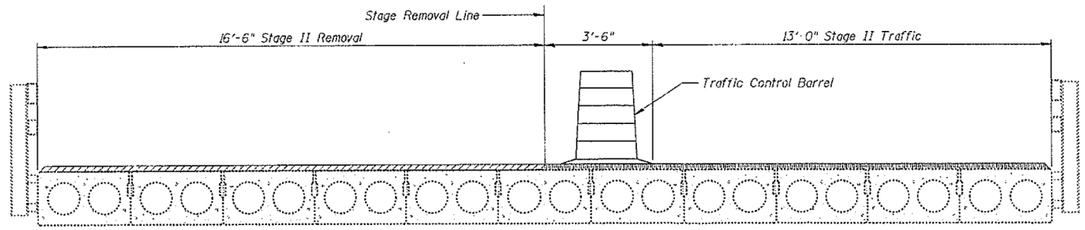
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



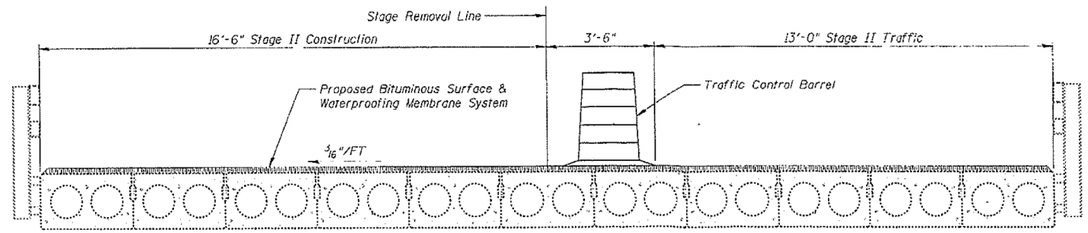
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

DESIGNED	KPH
CHECKED	DLS
DRAWN	KPH
CHECKED	DLS

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS
4200 OAKLAND AVENUE • ST. LOUIS, MISSOURI
141 MARKET PLACE, STE. 208•FAIRVIEW HEIGHTS, ILLINOIS

STAGE CONSTRUCTION DETAILS
ILLINOIS ROUTE 4
FAP ROUTE 314
SECTION 110 BR-I
MADISON COUNTY
SN 060-0109

FOR INFORMATION ONLY

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\EDI05\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
2005 OVERLAY

SCALE: NA | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

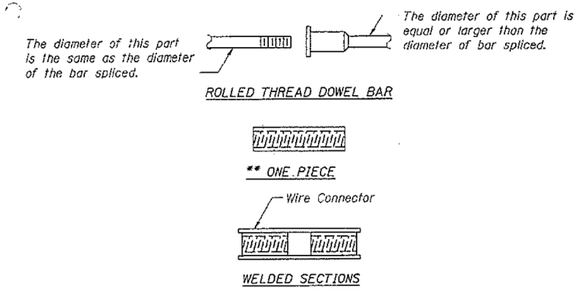
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	74
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Route 314	110 BR-1	MADISON	10	10
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

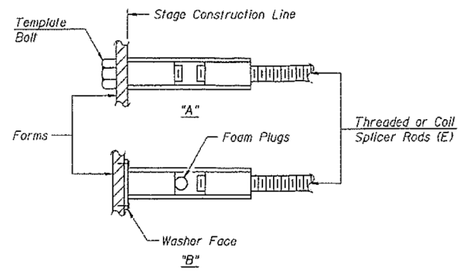
SHEET NO. 4
4 SHEETS

CONTRACT NO. 76B50



BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

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

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

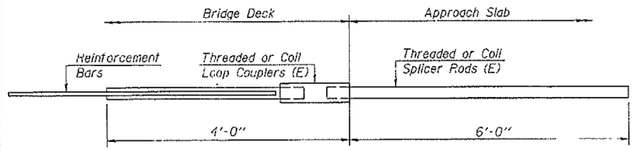
① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

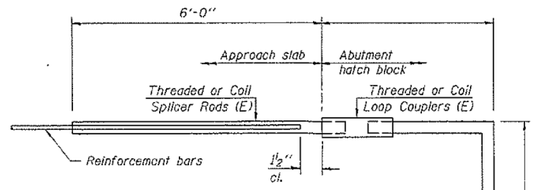
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-1"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4' 6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



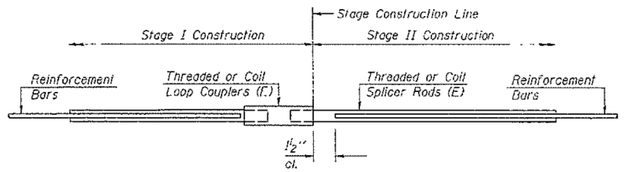
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	12	Expansion Jts.

BAR SPLICER ASSEMBLY DETAILS
ILLINOIS ROUTE 4
FAP ROUTE 314
SECTION 110 BR-I
MADISON COUNTY
SN 060-0109

DESIGNED	KPH
CHECKED	DLS
DRAWN	KPH
CHECKED	DLS

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS
5200 OAKLAND AVENUE • ST. LOUIS, MISSOURI
141 MARKET PLACE, STE. 208•FAIRVIEW HEIGHTS, ILLINOIS

FOR INFORMATION ONLY

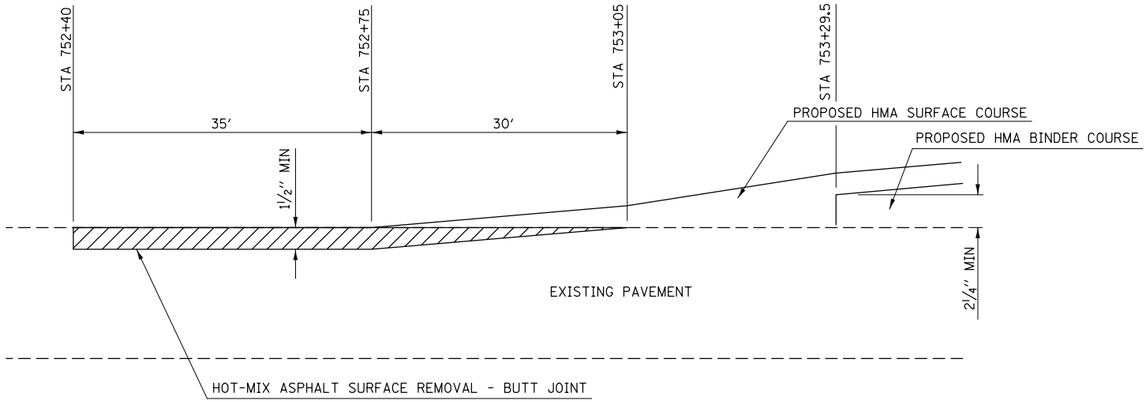
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED105\DRAWNData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

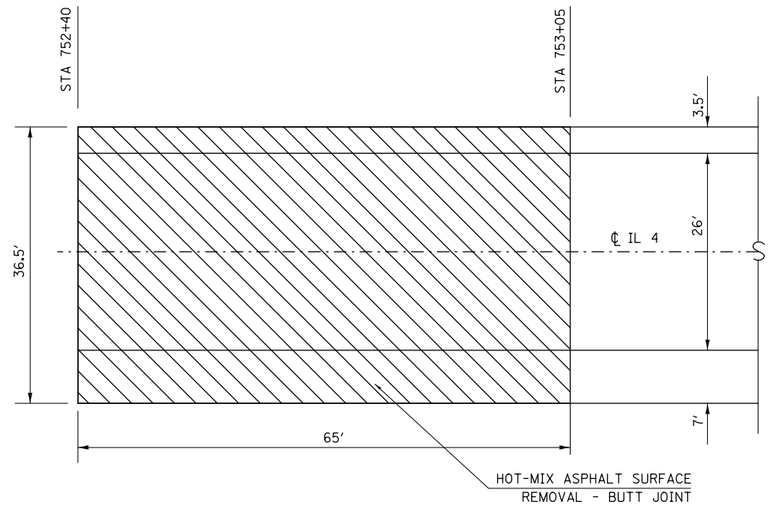
EXISTING STRUCTURE PLANS
2005 OVERLAY

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

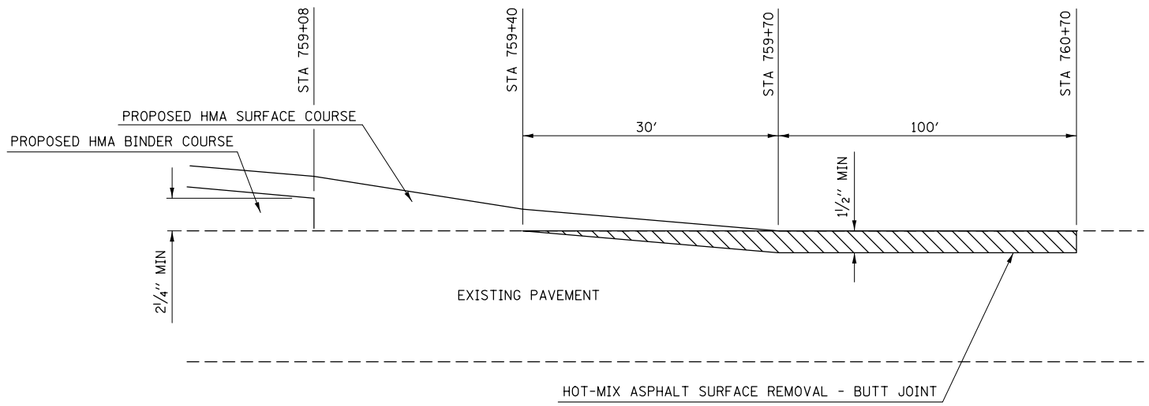
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	75
			CONTRACT NO. 76B50	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



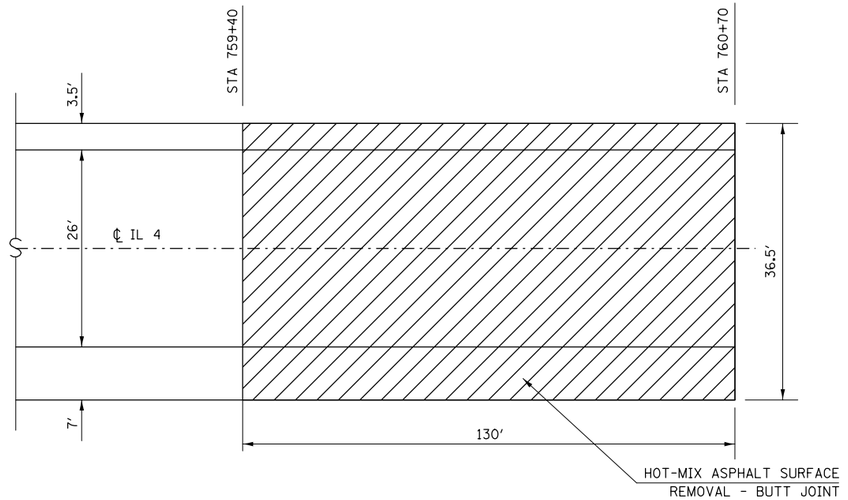
ELEVATION VIEW - BUTT JOINT AT NORTH END OF PROJECT



PLAN VIEW - BUTT JOINT AT NORTH END OF PROJECT



ELEVATION VIEW - BUTT JOINT AT SOUTH END OF PROJECT



PLAN VIEW - BUTT JOINT AT SOUTH END OF PROJECT

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\DrawingData\GADsheets\pln10507a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

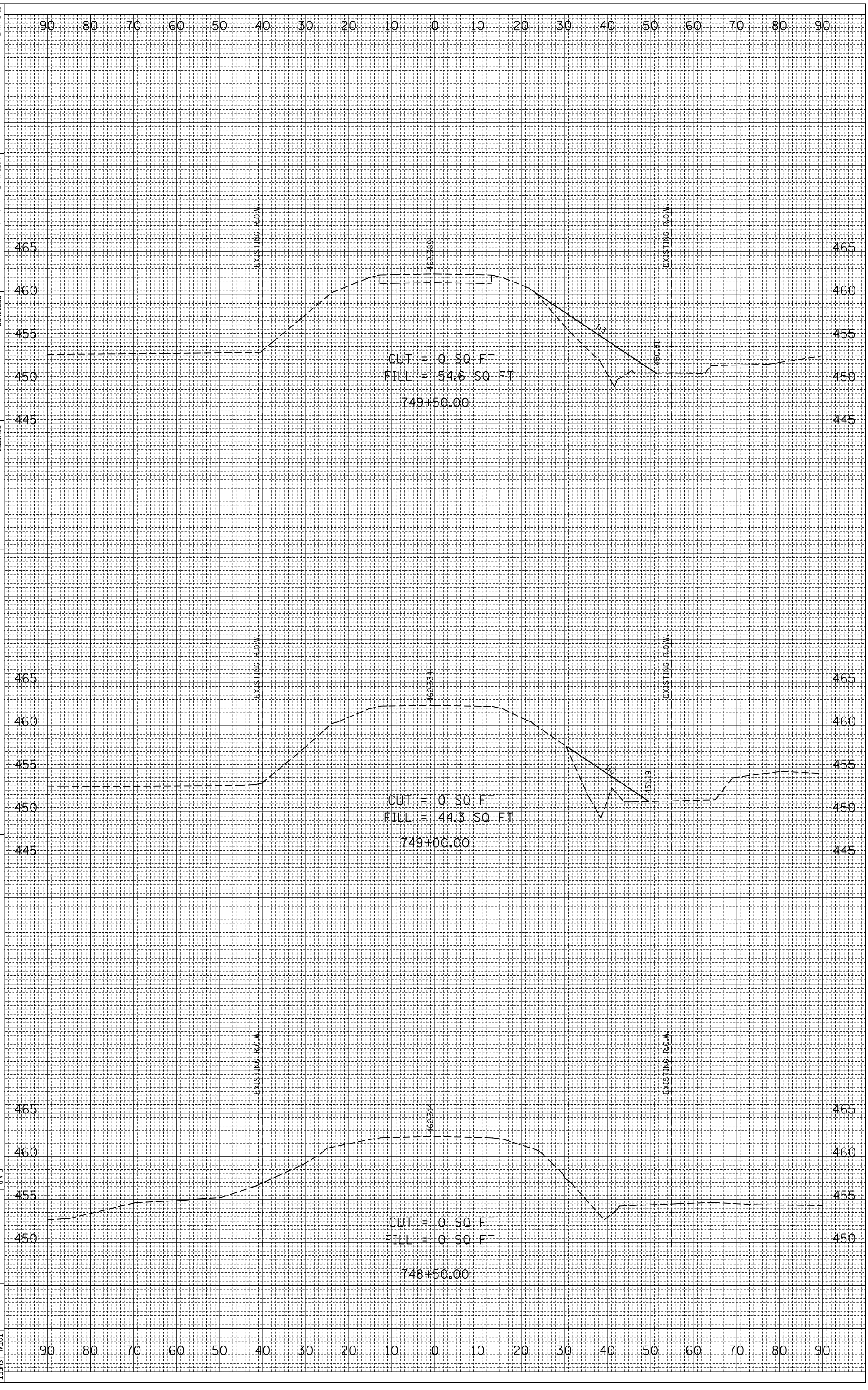
MISCELLANEOUS DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	76
		CONTRACT NO. 76B50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\Drawings\sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET	OF	SHEETS	STA. 748+50.00	TO STA. 749+50.00
1	10			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	77

ILLINOIS | FED. AID PROJECT

CONTRACT NO. 76B50

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

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\Drawings\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

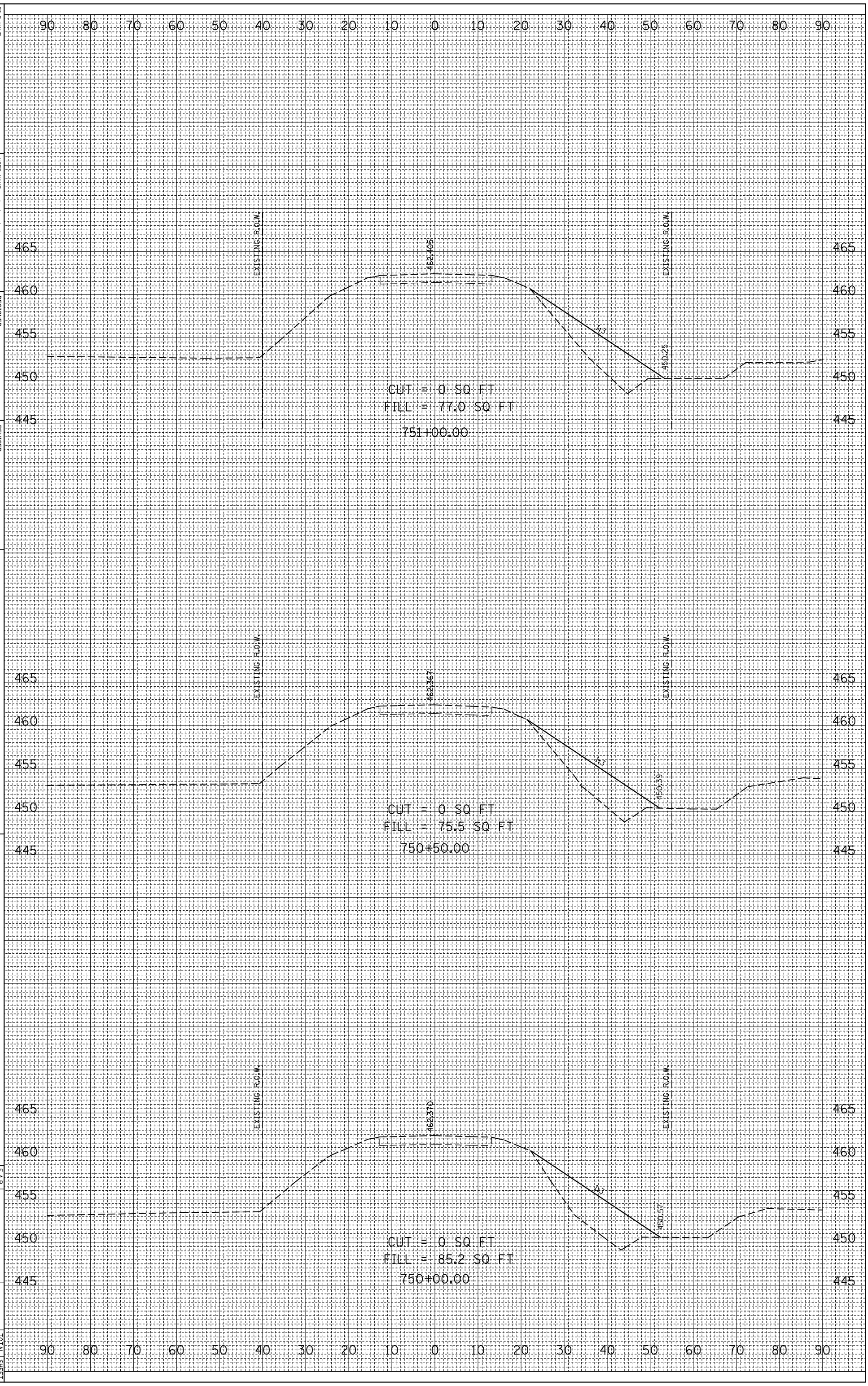
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

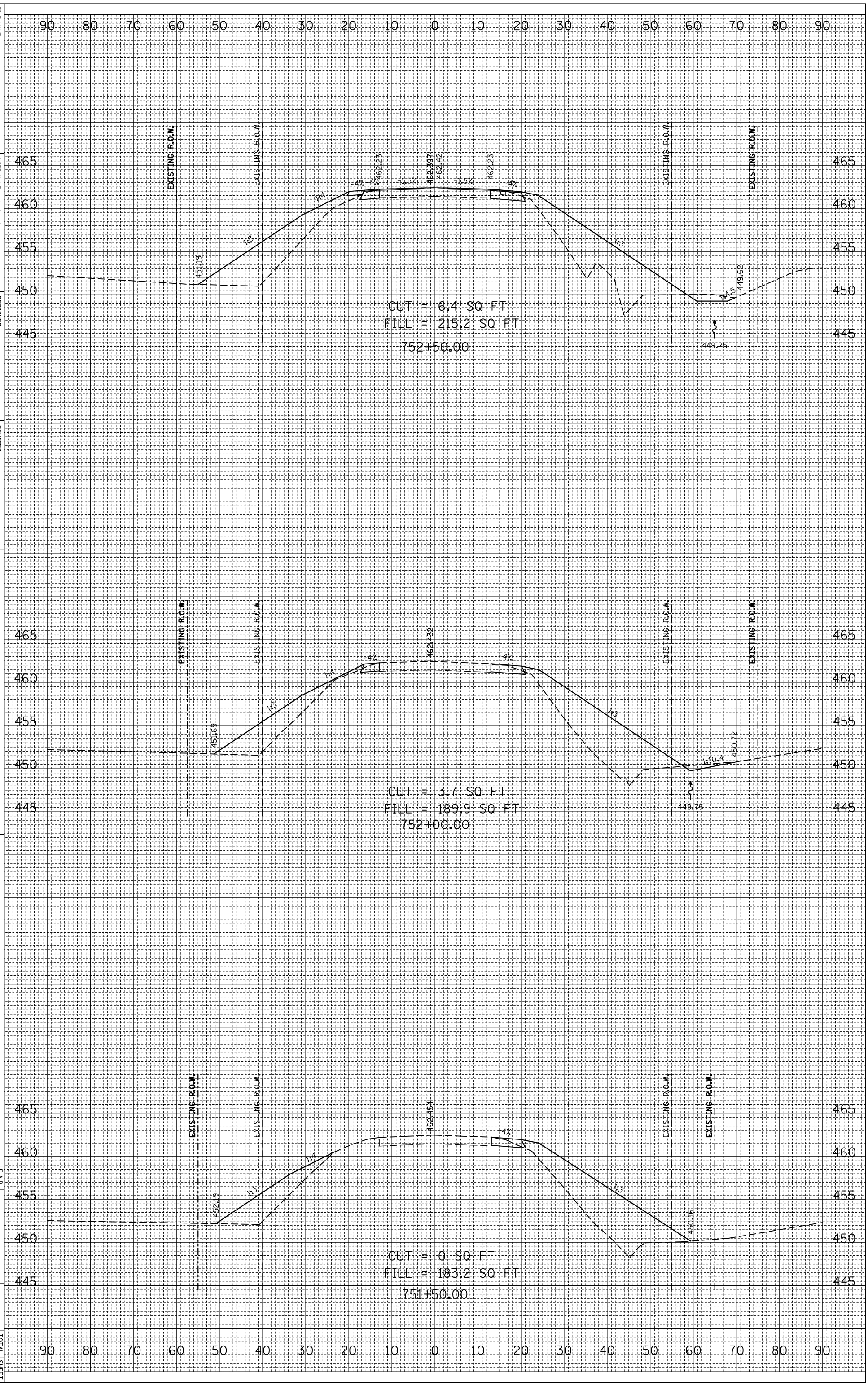
SHEET 2 OF 10 SHEETS | STA. 750+00.00 | TO STA. 751+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	78
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		



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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

STA. 751+50.00	TO STA. 752+50.00
SHEET 3	OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	79

ILLINOIS FED. AID PROJECT

CONTRACT NO. 76B50

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

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

FILE NAME = p:\IL084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\Drawings\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

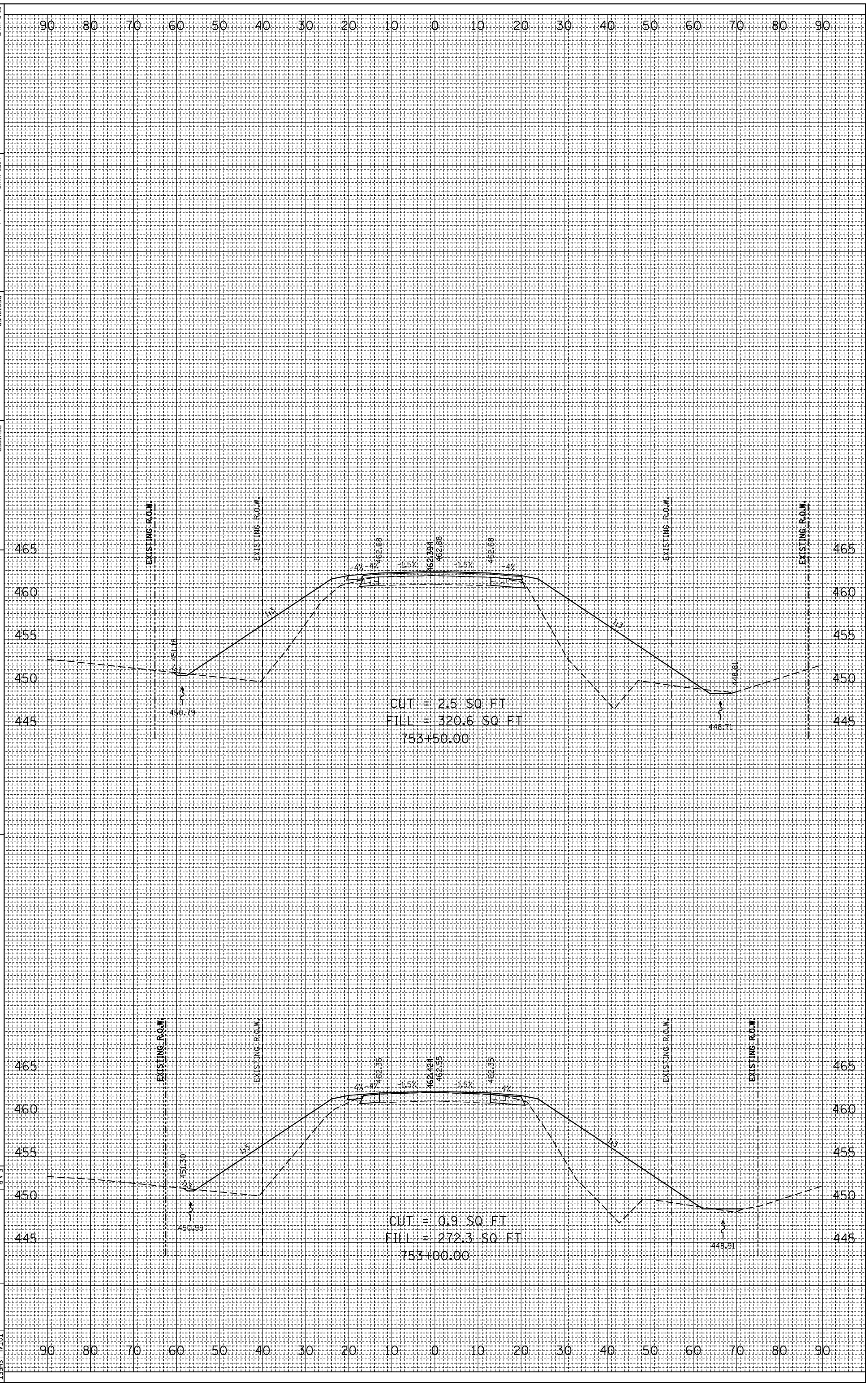
DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED	-
REVISED	-
REVISED	-
REVISED	-



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET	4	OF	10	SHEETS	STA. 753+00.00	TO	STA. 753+50.00

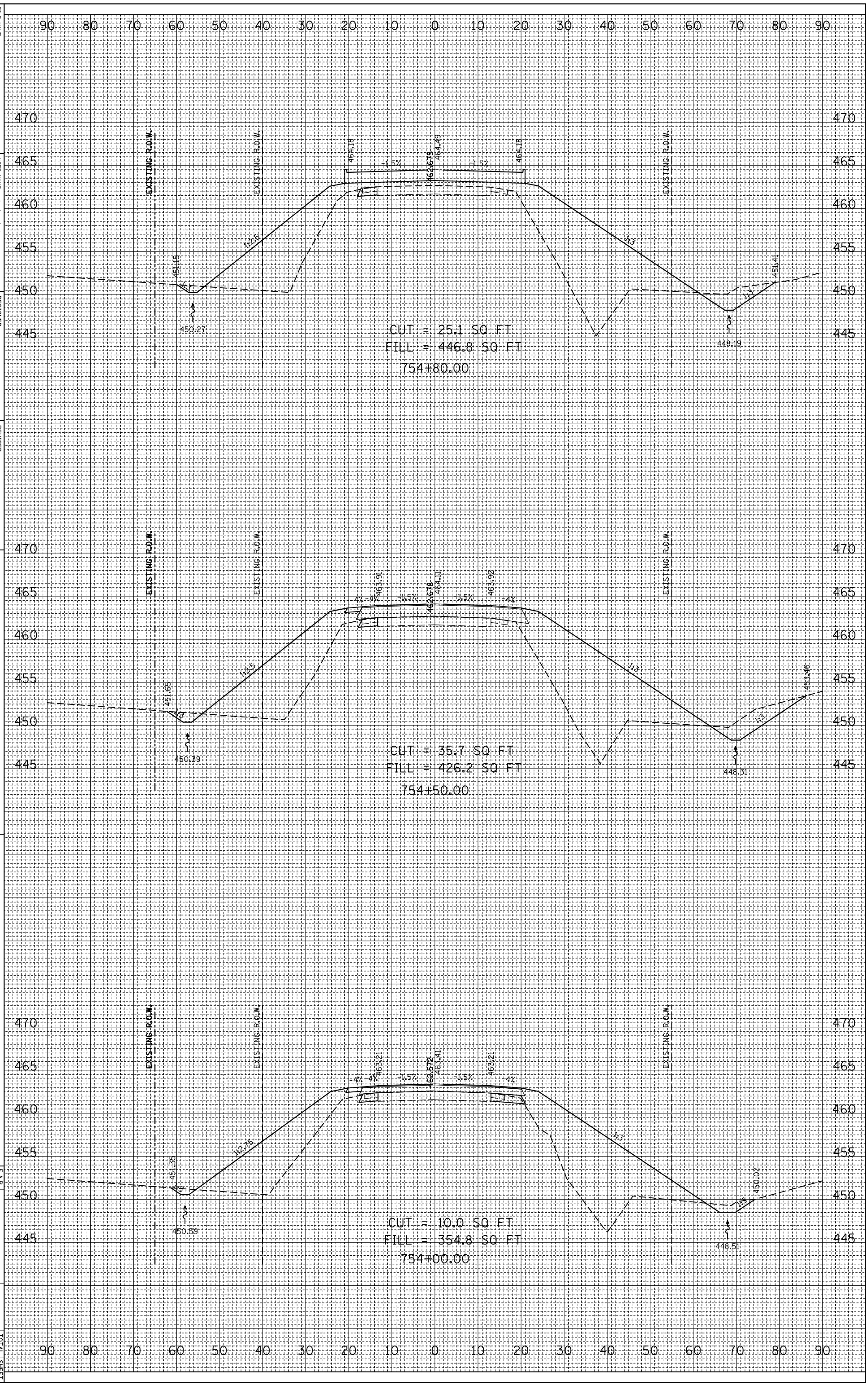
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	80

CONTRACT NO. 76B50

ILLINOIS FED. AID PROJECT

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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Drawings\Sheets\D8768850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

DESIGNED - DRAWN -

CHECKED - DATE -

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET 5 OF 10 SHEETS STA. 754+00.00 TO STA. 754+80.00

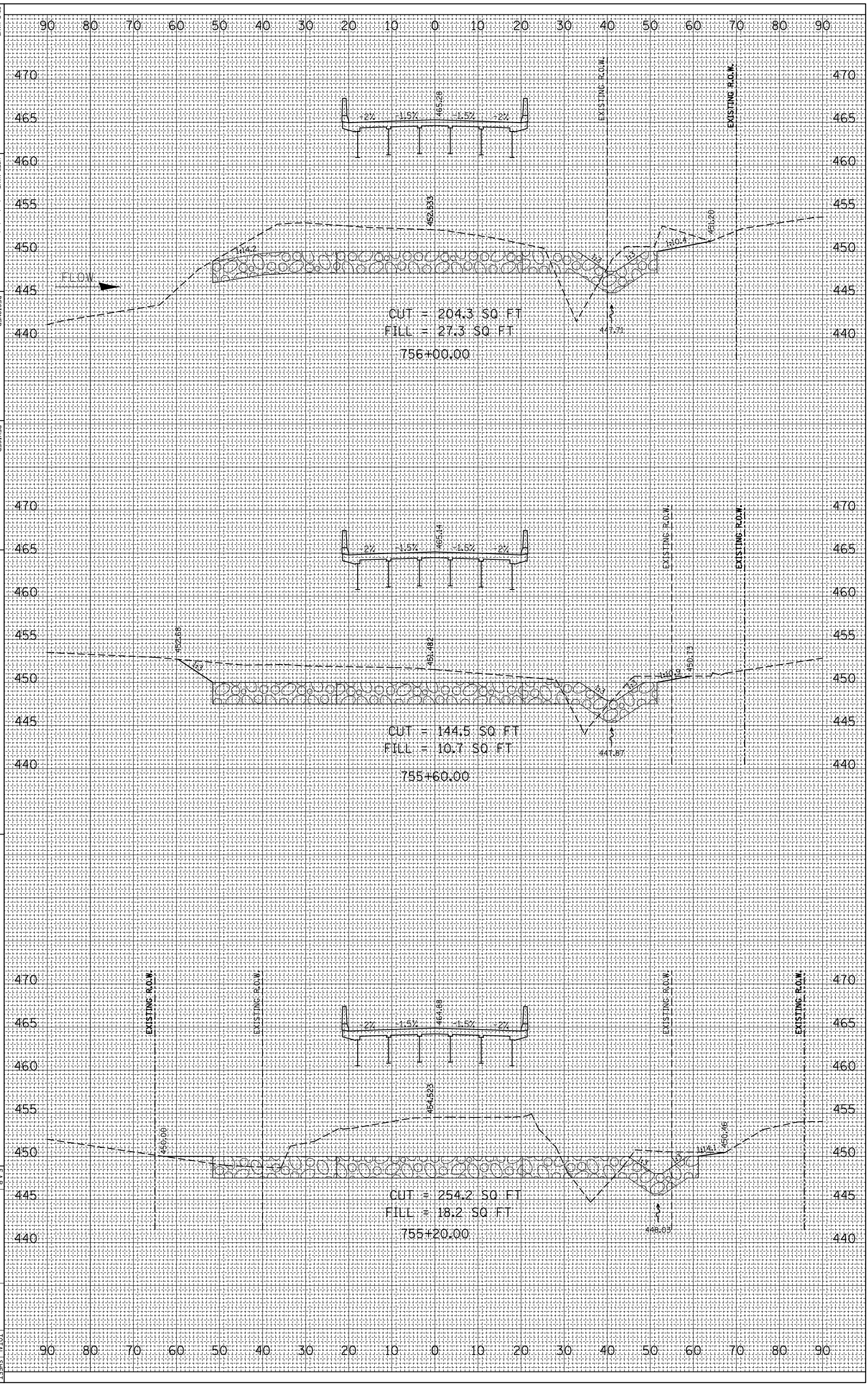
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	81

ILLINOIS FED. AID PROJECT

CONTRACT NO. 76B50

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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

DESIGNED - DRAWN -

CHECKED - REVISED -

DATE - REVISED -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

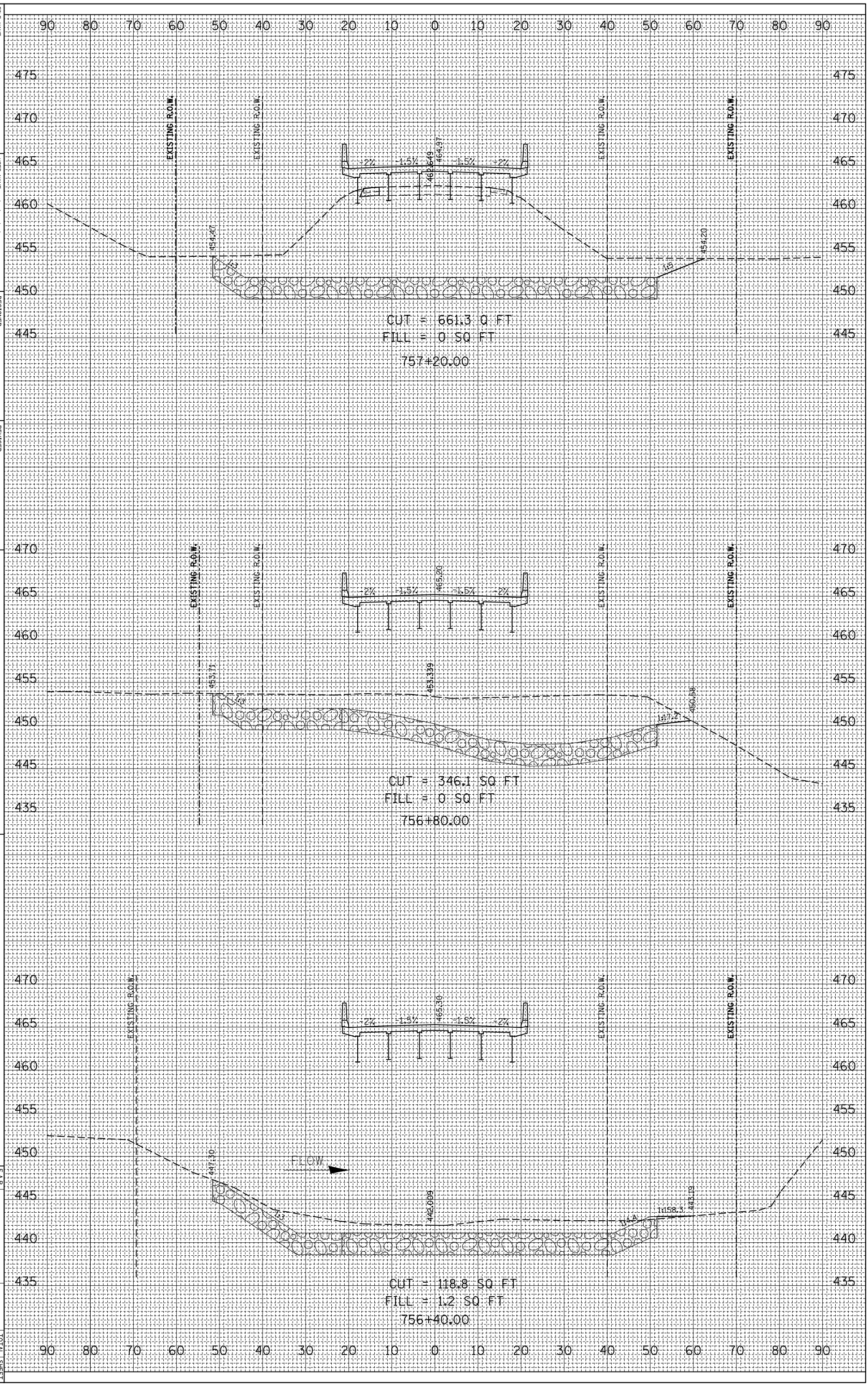
SCALE: H=10 V=5

STA. 755+20.00	TO STA. 756+00.00
SHEET 6 OF 10 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	82
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET 7 OF 10 SHEETS | STA. 756+40.00 TO STA. 757+20.00

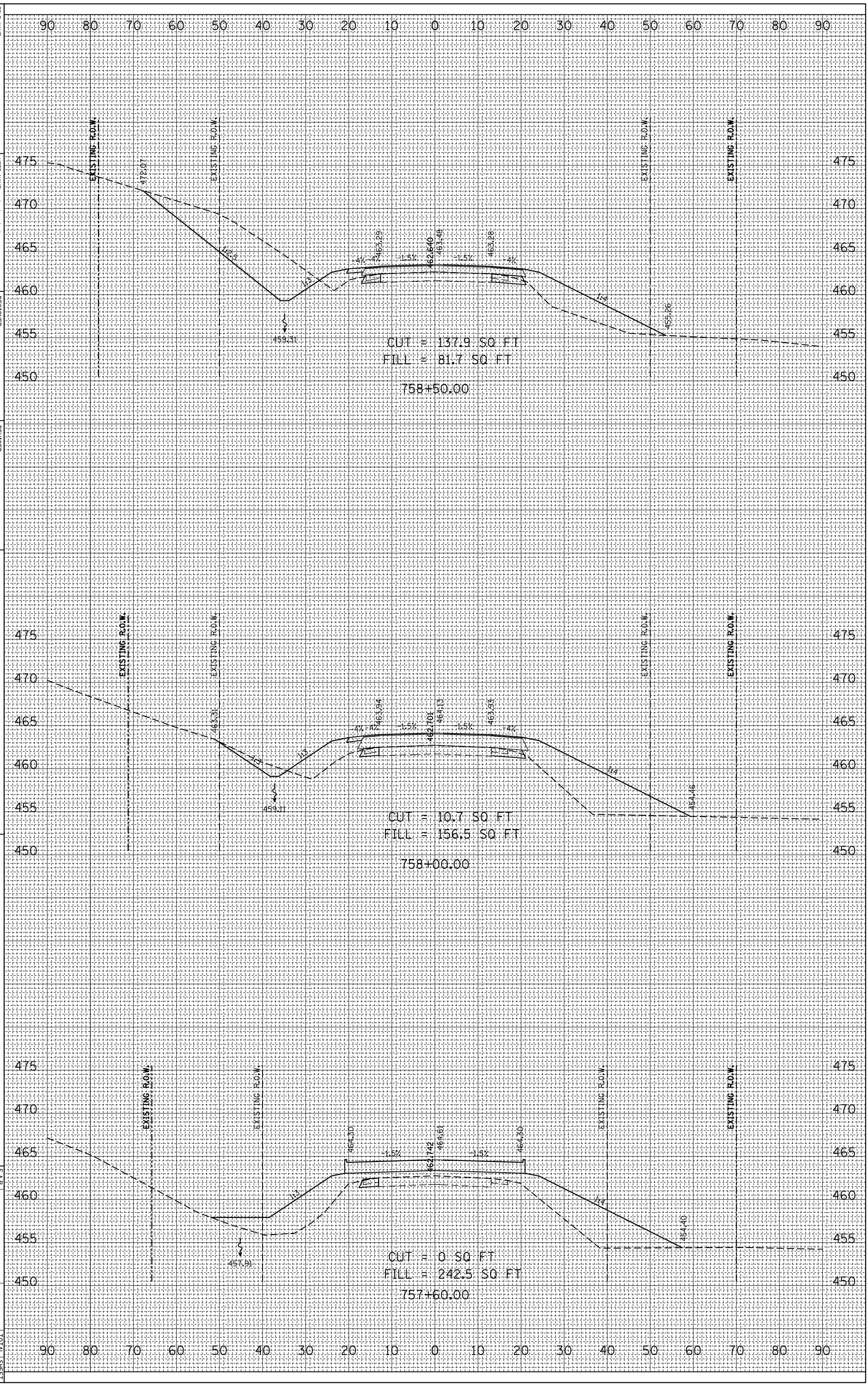
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	83

ILLINOIS | FED. AID PROJECT

CONTRACT NO. 76B50

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

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



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

DESIGNED - DRAWN -

CHECKED - DATE -

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET 8 OF 10 SHEETS STA. 757+60.00 TO STA. 758+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	84

ILLINOIS FED. AID PROJECT

CONTRACT NO. 76B50

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

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\Drawings\Sheets\D8768B0-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

Default

DESIGNED - DRAWN - CHECKED - DATE -

REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET 9 OF 10 SHEETS STA. 759+00.00 TO STA. 760+00.00

F.A.P. RTE. 314 | SECTION 110BR-1 | COUNTY MADISON | TOTAL SHEETS 94 | SHEET NO. 85

ILLINOIS FED. AID PROJECT | CONTRACT NO. 76B50

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

475 470 465 460 455

EXISTING R.O.W.

474.70 462.43 462.625 462.62 463.39 472.58

1:4 4% 1.5% 4% 1:5

459.91 459.65

CUT = 456.8 SQ FT
FILL = 3.3 SQ FT
760+00.00

480 475 470 465 460 455

EXISTING R.O.W.

474.63 462.53 462.632 462.72 462.53 467.24

1:4 4% 1.5% 4% 1:3

459.71 459.25

CUT = 475.9 SQ FT
FILL = 4.1 SQ FT
759+50.00

480 475 470 465 460 455

EXISTING R.O.W.

474.75 462.82 462.636 463.01 462.81 458.82

1:4 4% 1.5% 4% 1:3

459.51

CUT = 301.5 SQ FT
FILL = 12.7 SQ FT
759+00.00

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

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\Sheets\D876850-sht-xssht.dgn

USER NAME = harbaughrd

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/14/2015

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

Default

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION

SCALE: H=10 V=5

SHEET 10 OF 10 SHEETS STA. 760+50.00 TO STA. 762+00.00

F.A.P. RTE. 314 | SECTION 110BR-1 | COUNTY MADISON | TOTAL SHEETS 94 | SHEET NO. 86

ILLINOIS FED. AID PROJECT | CONTRACT NO. 76850

EXISTING R.O.W.

462.583

CUT = 0 SQ FT
FILL = 0 SQ FT
762+00.00

462.578

CUT = 0 SQ FT
FILL = 0 SQ FT
761+50.00

462.564

467.10

MATCH EXISTING

460.78

CUT = 17.7 SQ FT
FILL = 0.3 SQ FT
761+00.00

472.17

462.42

462.609

462.61

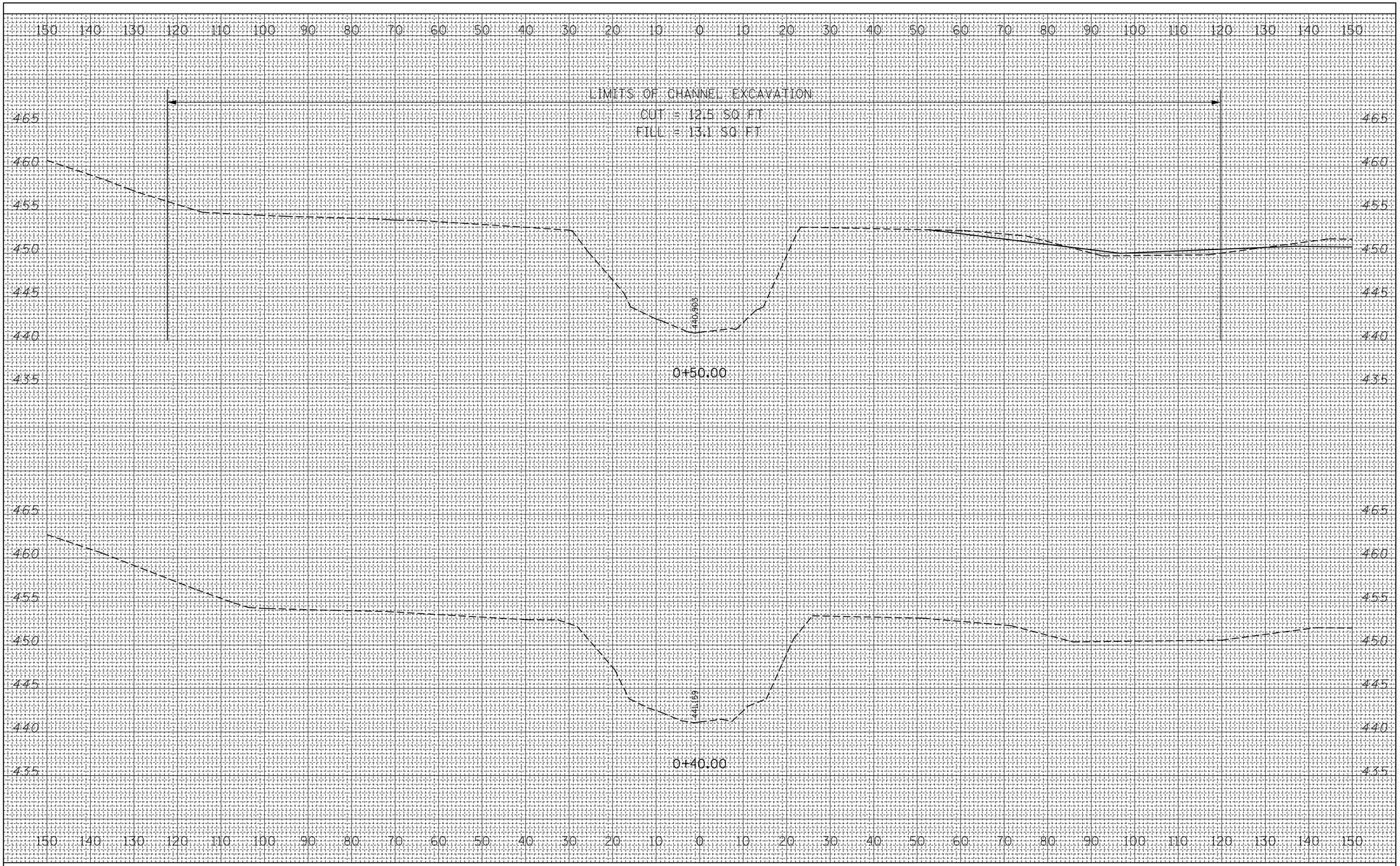
462.494

473.14

460.11

459.89

CUT = 388.0 SQ FT
FILL = 3.4 SQ FT
760+50.00



FINAL SURVEY

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

ORIGINAL SURVEY

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

FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CAD\DRAWINGsheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

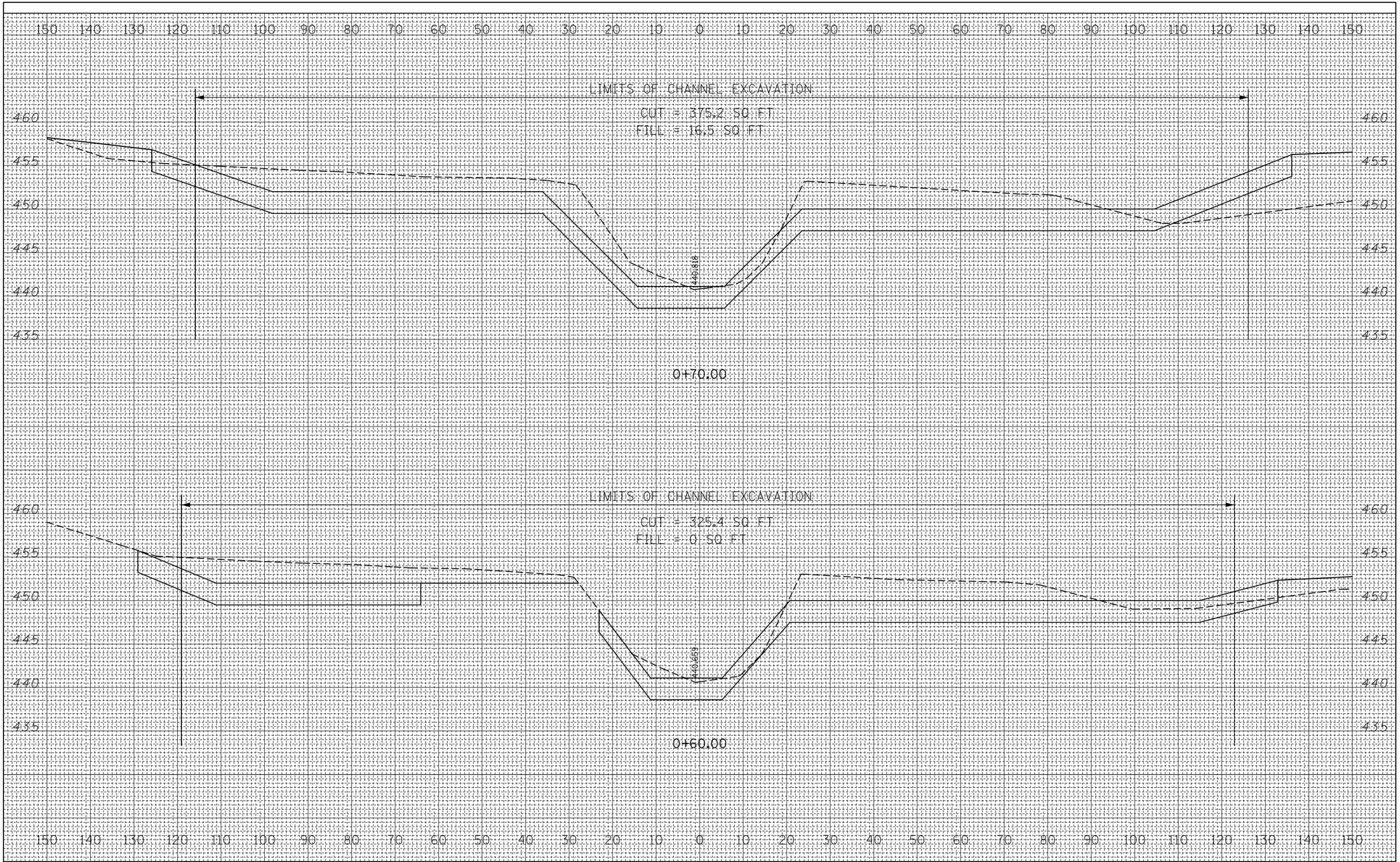
CHANNEL CROSS SECTIONS

SCALE: | SHEET 1 OF 8 SHEETS | STA. 0+40.00 | TO STA. 0+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	87
		CONTRACT NO. 76B50		
	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

FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\MDsheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

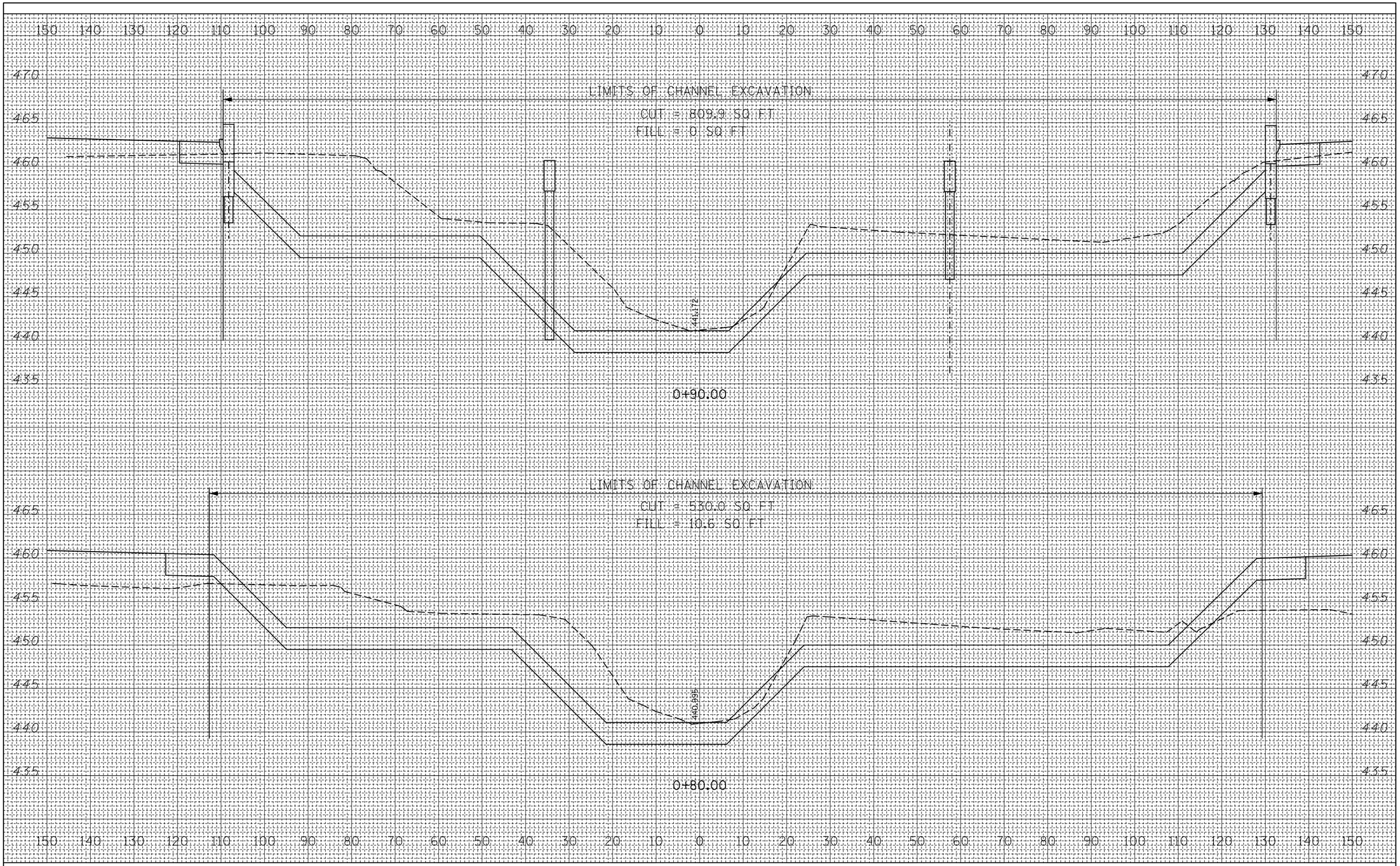
CHANNEL CROSS SECTIONS

SCALE: | SHEET 2 OF 8 SHEETS | STA. 0+60.00 | TO STA. 0+70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	88
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

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

NO.	BY	DATE



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

NO.	BY	DATE

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Drawings\sheets\D876850-sht-xssht2.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

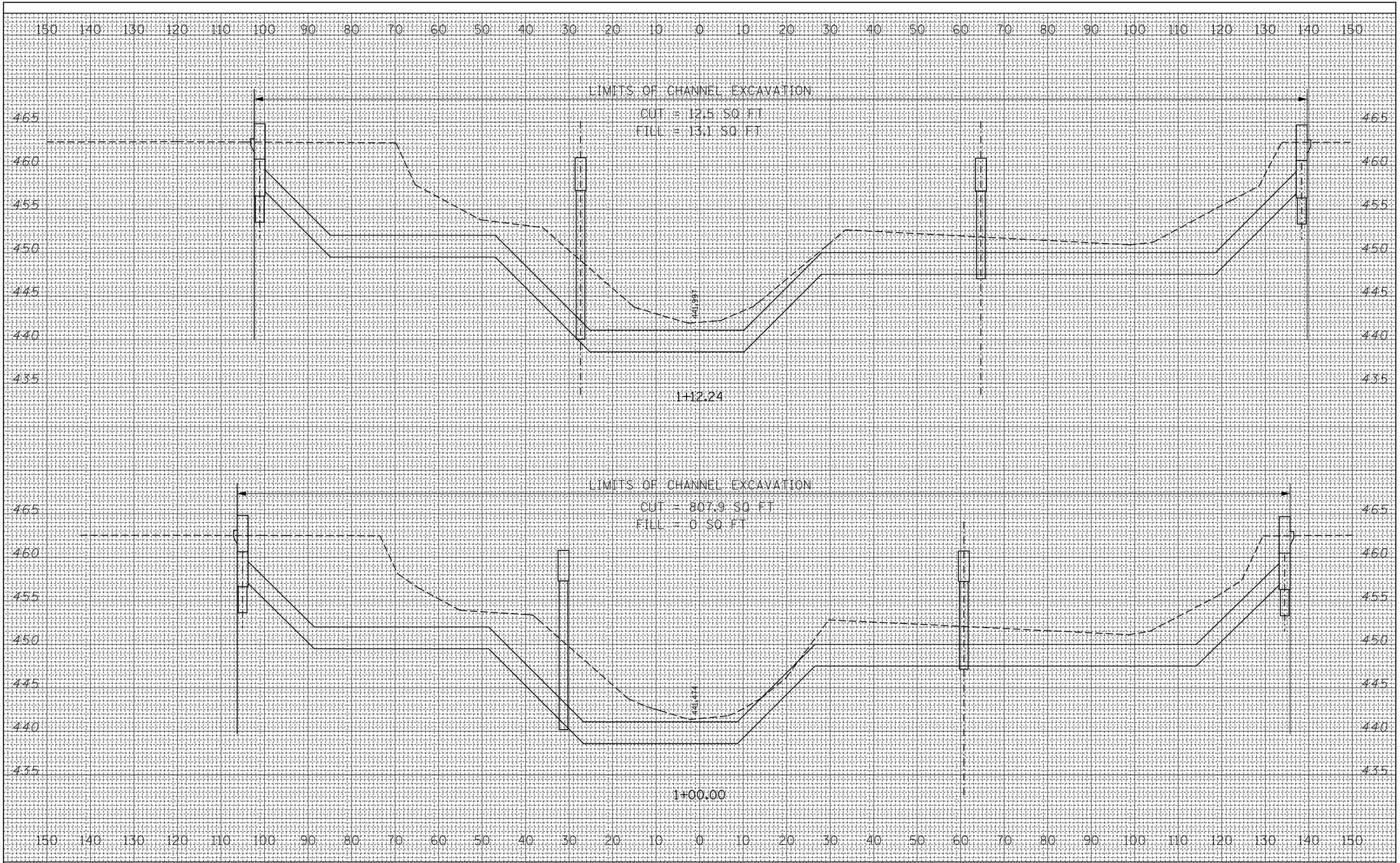
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: | SHEET 3 OF 8 SHEETS | STA. 0+80.00 | TO STA. 0+90.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	89
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		

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



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

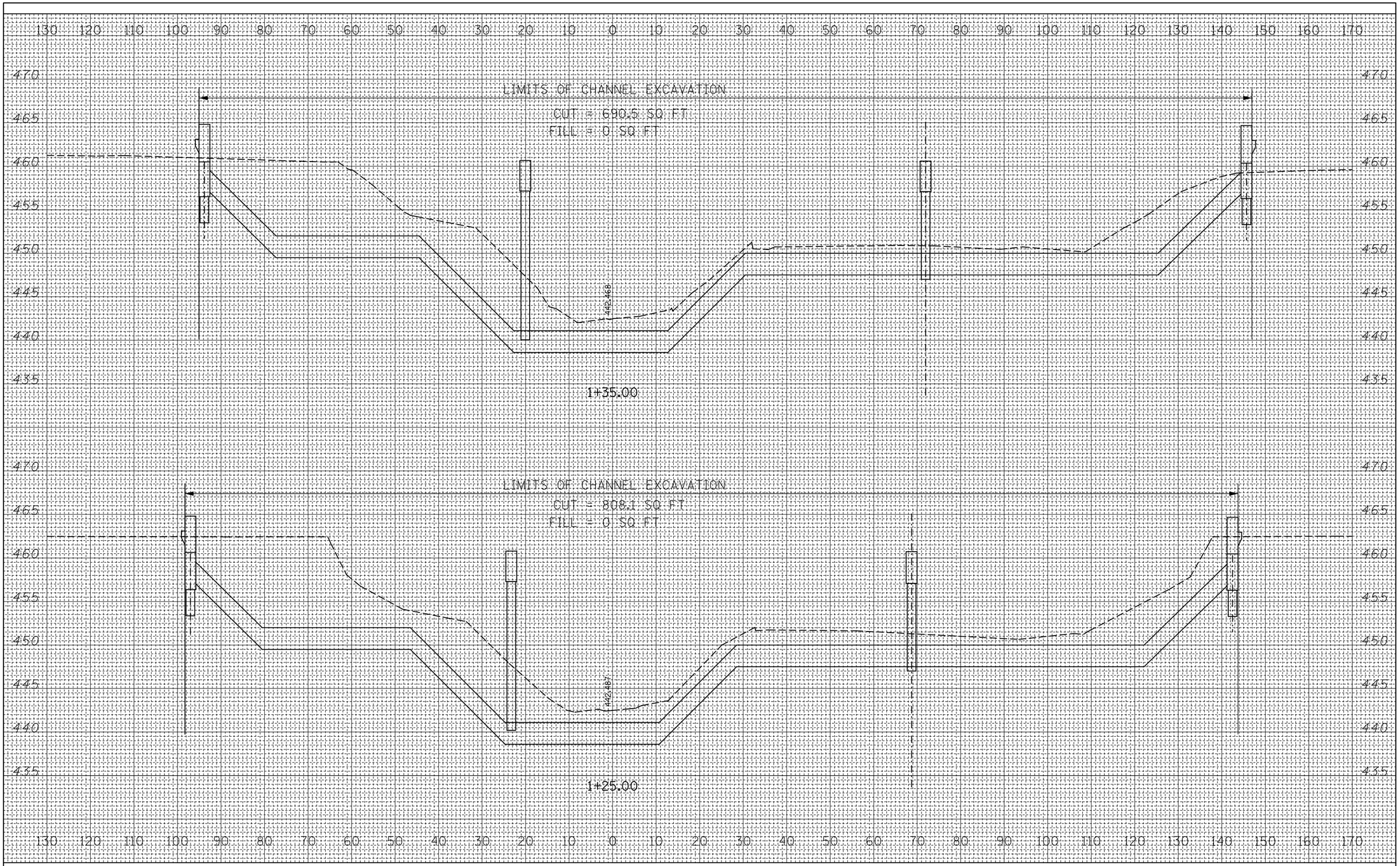
FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Microstation\sheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: | SHEET 4 OF 8 SHEETS | STA. 1+00.00 | TO STA. 1+12.24

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	90
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Microstation\Sheets\D876850-sht-xssht2.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

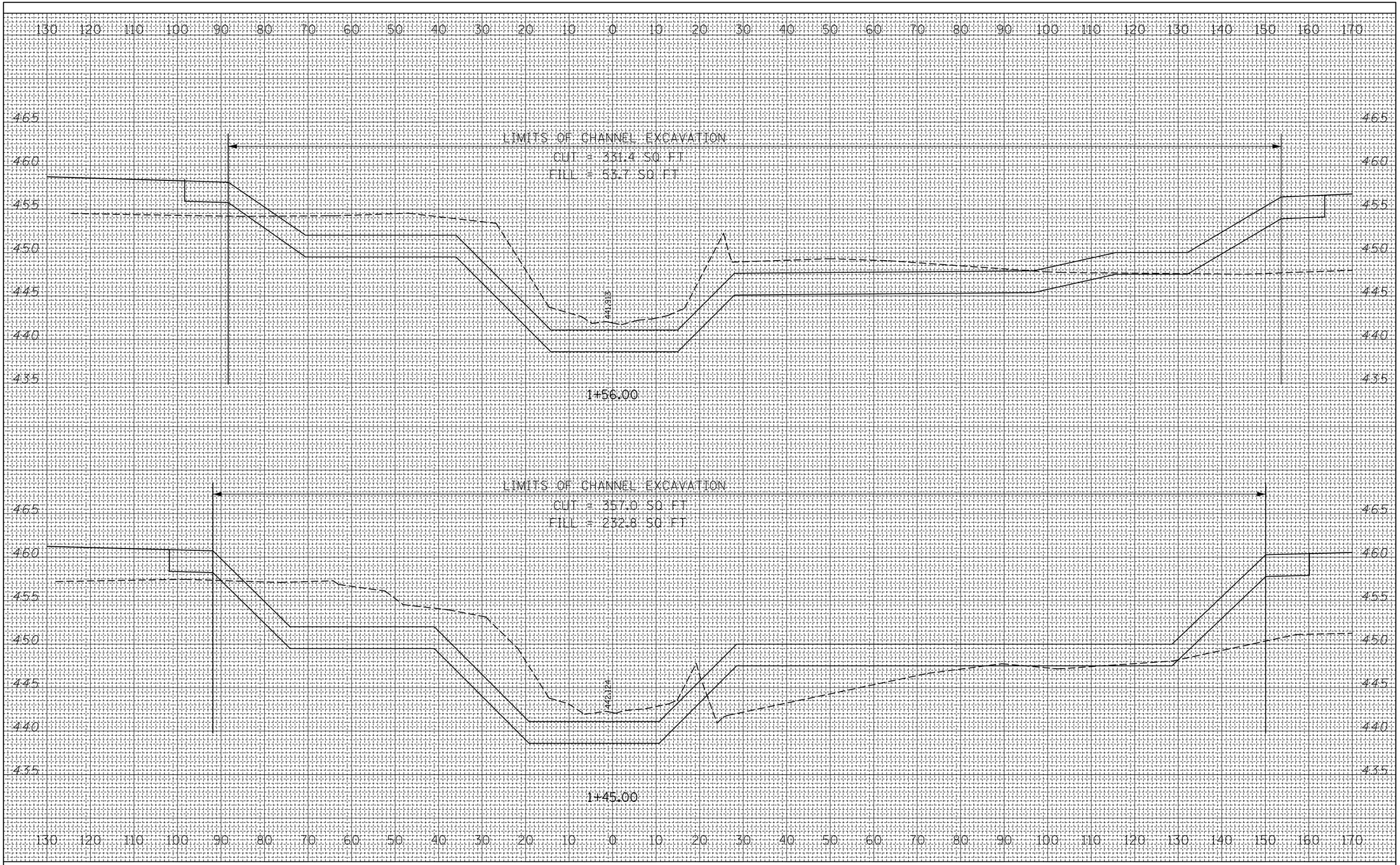
CHANNEL CROSS SECTIONS

SCALE: | SHEET 5 OF 8 SHEETS | STA. 1+25.00 | TO STA. 1+35.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	91
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	



ORIGINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\DGN\Dsheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

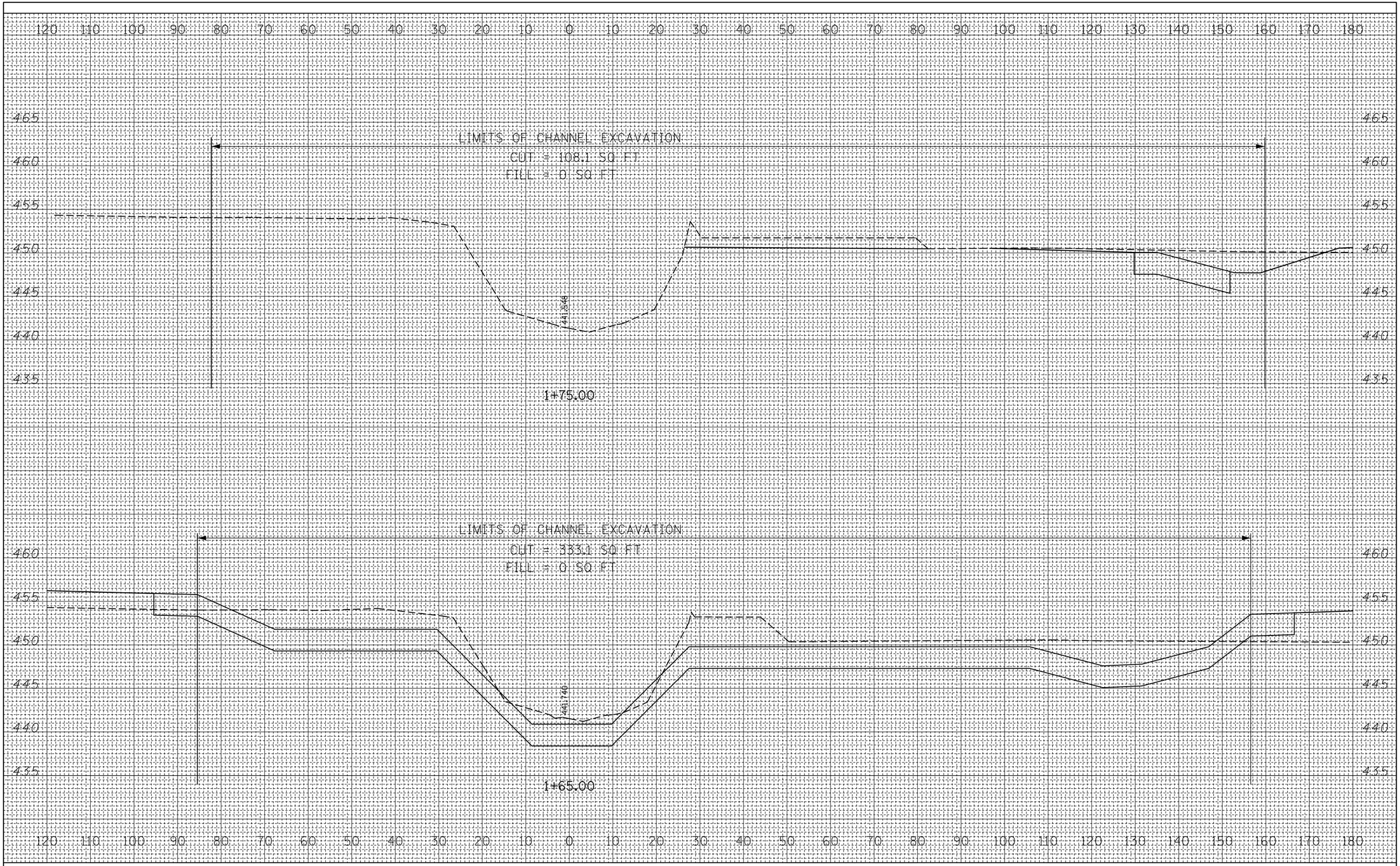
CHANNEL CROSS SECTIONS

SCALE: | SHEET 6 OF 8 SHEETS | STA. 1+45.00 | TO STA. 1+56.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	92
		CONTRACT NO. 76B50		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\DRAWINGsheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

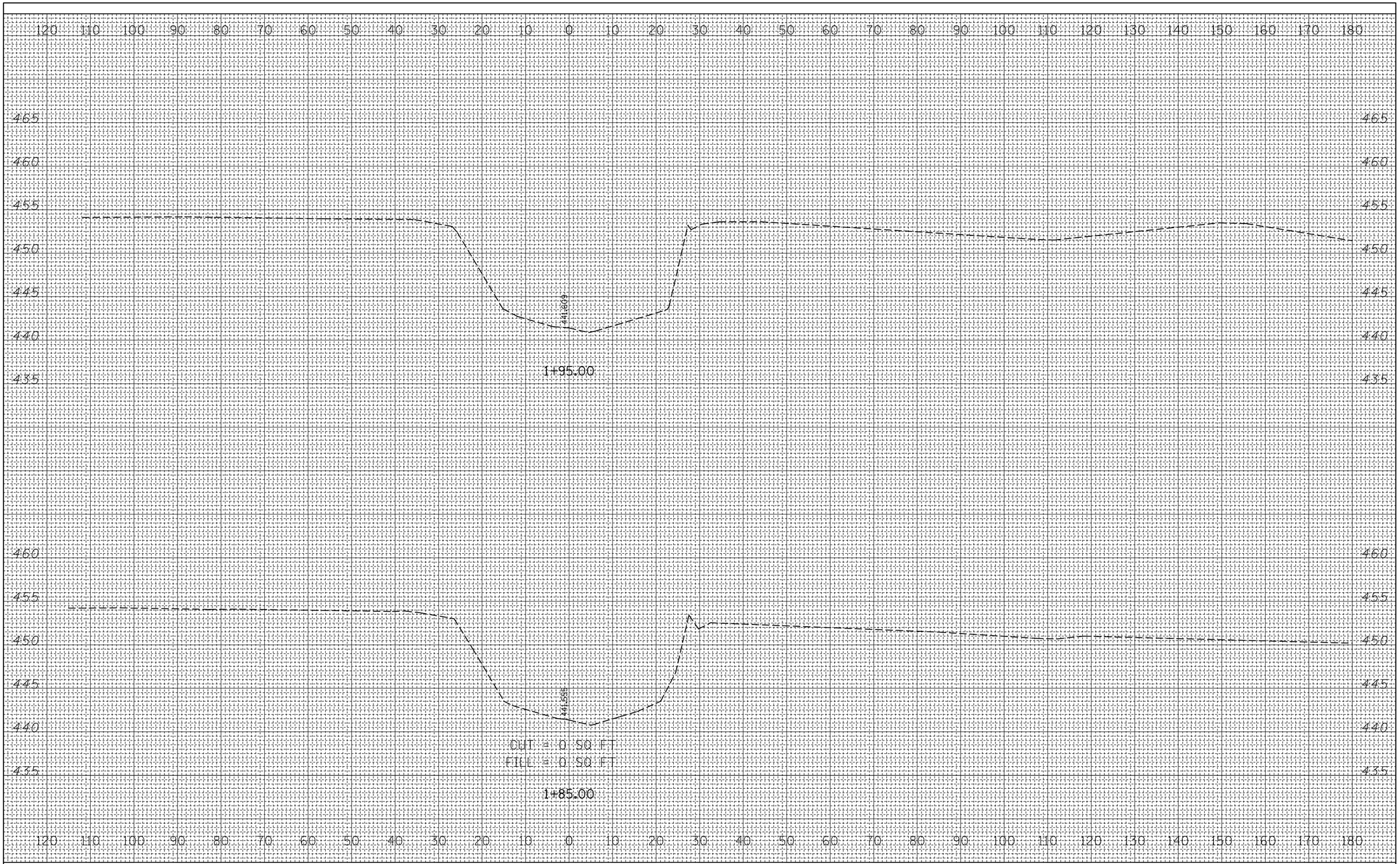
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: | SHEET 7 OF 8 SHEETS | STA. 1+65.00 | TO STA. 1+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	93
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		

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		

FILE NAME =	USER NAME = harbaughrd	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\ED10507\CADD\Microstation\Sheets\D876850-sht-xssht2.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: | SHEET 8 OF 8 SHEETS | STA. 1+85.00 | TO STA. 1+95.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	110BR-1	MADISON	94	94
		CONTRACT NO. 76B50		
	ILLINOIS	FED. AID PROJECT		