

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 68732		

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	ILLINOIS DOT HIGHWAY STANDARDS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

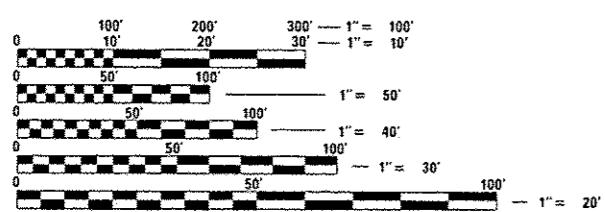
FAP 574 (IL ROUTE 41)
SECTION 12BR-1
PROJECT ACF-0574(132)
FULTON COUNTY
C-94-095-07

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	701006-03
001001-02	701011-02
280001-06	701201-04
420401-08	701301-04
482001-02	701306-03
515001-03	701311-03
542401-01	701321-12
630001-10	701326-04
630301-05	701901-02
631031-10	704001-07
635006-03	780001-03
636011-02	781001-03
701001-02	

LIST OF DISTRICT 4 CADD STANDARDS

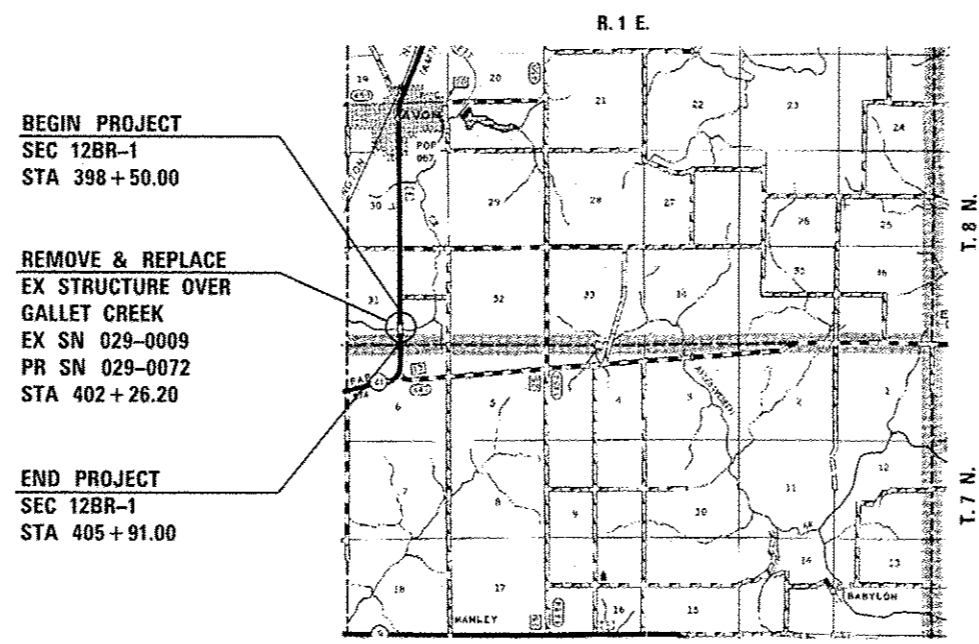
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280001-D4
630101-D4
635101-D4
667101-D4
780001-D4



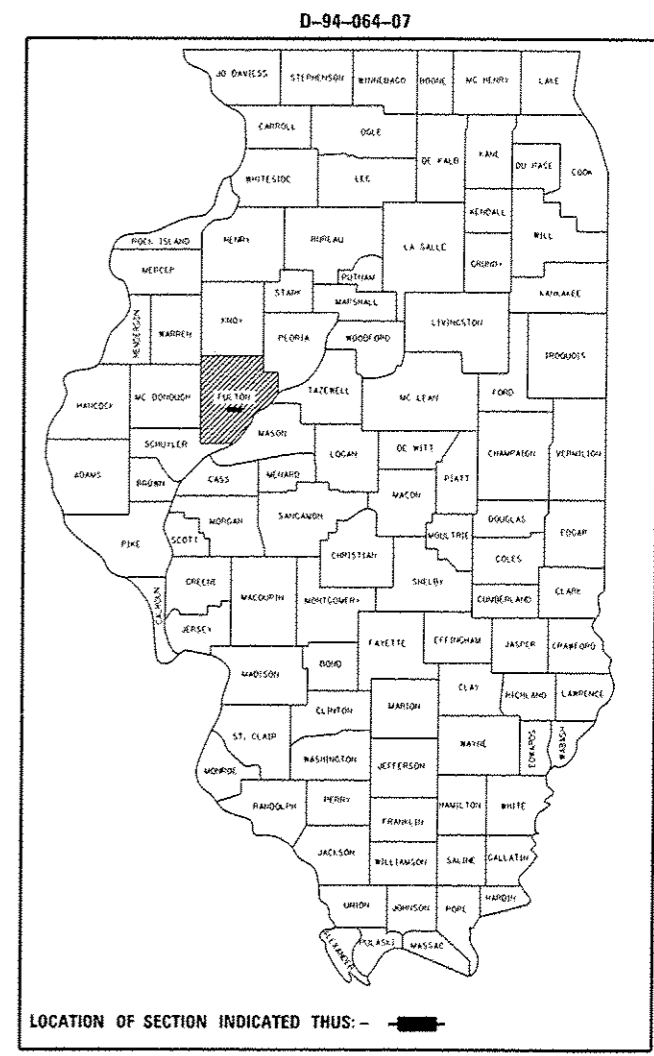
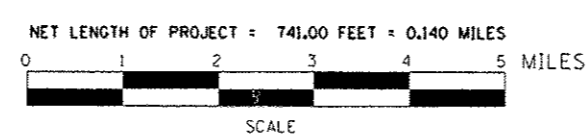
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MIKE LEWIS 309-671-3454
PROJECT MANAGER: MIKE MCLUCKIE 309-671-3468
CATALOG NO. 033546-00D
CONTRACT NO. 68732



LOCATION PLAN



ADT = 2100 (2009)
% SU = 5.5 (2009)
% MU = 5.5 (2009)
TOWNSHIP: UNION
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON-URBAN)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED Aug 16 2012
Joseph Elwood
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER
October 5 2012
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
October 5 2012
William R. Frey
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Richard K. Allender
Richard K. Allender
02-0546
LICENSED
PROFESSIONAL
ENGINEER
OF
STATE OF ILLINOIS
EXPIRATION: 11/30/2013

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OF THE STATE OF ILLINOIS

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

I.D.O.T. DISTRICT 4 GENERAL NOTES

1. AVAILABILITY OF ELECTRONIC FILES

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

2. UTILITIES - LOCATIONS / INFORMATION ON PLANS

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

3. PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN REFER TO U. S. G. S. DATUM AT MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

4. PROPERTY OWNER ACCESS REQUIREMENTS

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

5. SEEDING - SIDE SLOPE RIPPING

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

6. AGGREGATE FOR DRIVEWAY REPLACEMENT

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

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

7. PAVEMENT STATIONING NUMBERS & PLACEMENT

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

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

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

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

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

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
 FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)"
 WHERE X REPRESENTS THE PAVEMENT STATION

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

8. POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 GAL/SO.YD. (0.00034 TON/SO.YD.)	0.04 GAL/SO.YD.
EXISTING PAVEMENT (NOT MILLED)	0.05 GAL/SO.YD. (0.00022 TON/SO.YD.)	0.025 GAL/SO.YD.
FOG COAT BETWEEN LIFTS	0.05 GAL/SO.YD. (0.00022 TON/SO.YD.)	0.025 GAL/SO.YD.

NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.

9. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	HOT-MIX ASPHALT SURFACE COURSE (1 1/2" NOMINAL)	HOT-MIX ASPHALT BINDER COURSE (2 1/4" NOMINAL & VAR)	HOT-MIX ASPHALT SHOULDERS 8"	HOT-MIX ASPHALT SHOULDERS 1 1/2"
AC / PC	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)**	15	25	30	30
DESIGN AIR VOIDS MIXTURE COMPOSITION FRICTION AGGREGATE	4.0% @ N DESIGN = 50 IL 9.5 OR 12.5 MIX D	4.0% @ N DESIGN = 50 IL 19.0 N/A	4.0% @ N DESIGN = 30 IL 19.0L N/A	3.0% @ N DESIGN = 30 IL 9.5L MIX C

** IF THE RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED; THIS WILL BE DETERMINED BY THE ENGINEER.

NOTES: INDIVIDUAL LIFT THICKNESSES OF EACH MIX TYPE WILL BE NO LESS THAN 3 X NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 X NOMINAL MAXIMUM AGGREGATE SIZE.

10. BUTT JOINT CUTTING TIME RESTRICTION

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

11. PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

12. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

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

13. EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, THE CONNECTING OF EXISTING DRAIN TILES, PIPE CULVERTS, OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.

14. ENGINEERS FIELD OFFICE

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

15. ENVIRONMENTAL REVIEWS

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

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

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

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM-D4 P10100
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FROM-D4 P10101

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

PROJECT SPECIFIC GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION AND PERMANENTLY RESET ALL MAILBOXES, TRAFFIC SIGNS, STREET NAME SIGNS AND ALL PRIVATE AND COMMERCIAL SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT COST PRICES BID FOR THE VARIOUS ITEMS OF WORK INVOLVED.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER FOR APPROVAL OF THE TEMPORARY MAILBOX LOCATIONS.
3. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER.
5. THE THICKNESS OF THE HOT MIX ASPHALT MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIXED ASPHALT MIXTURES ARE PLACED.
6. FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
8. FOR THE DISK SET ON THE BRIDGE ABUTMENT, THE ELEVATION SHALL BE SET WITH A CLOSED LOOP TO THE DISK, VERIFIED, STAMPED AND A MEMO SENT TO THE CHIEF OF SURVEYS / PLATS DETAILING THE LOCATION OF THE DISK AND THE ELEVATION. THE LEVEL CIRCUIT SHALL BE RECORDED IN A FIELD BOOK AND A COPY OF THE FIELD BOOK ATTACHED TO THE MEMO. THE FIELD BOOK NOTES SHALL CONTAIN DESCRIPTION / LOCATIONS OF EXISTING BM, TBM, AND PROPOSED NEW BM LOCATION. THE DISK SHALL BE LOCATED SO IT IS ACCESSIBLE FOR FUTURE USE. ALL WORK SHALL BE PREFORMED BY A PLS AND THEIR NAME AND LICENSE NUMBER SHALL BE LISTED IN THE FIELD BOOK.

COMMITMENTS

1. COMMITMENTS SHALL NOT BE ALTERED WITHOUT THE WRITTEN CONSENT OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
2. NO COMMITMENTS HAVE BEEN PLEDGED ON THIS PROJECT.

CALCULATION FACTORS

AGGREGATE SHOULDERS AND BASES: 0.05833 TONS/SO YD/INCH
 HOT MIX ASPHALT: 0.056 TONS/SO YD/INCH
 MULCH METHOD 2: 2 TONS/ACRE
 NITROGEN FERTILIZER NUTRIENT: 90 LBS/ACRE
 PHOSPHORUS FERTILIZER NUTRIENT: 90 LBS/ACRE
 POTASSIUM FERTILIZER NUTRIENT: 90 LBS/ACRE
 TEMPORARY EROSION CONTROL SEEDING: 100 LBS/ACRE
 STONE DUMPED RIPRAP: 1.5 TONS/CU YD

ROUTE/STREET	OFFSET	LOCATION	OWNER	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION	REMARKS
IL. 41	19' RT.	STA. 399+50 TO STA. 401+88	CENTURY LINK	BURIED CABLE	DITCH GRADING	CAUTION	
IL. 41	19' RT.	STA. 402+00 TO STA. 402+50	CENTURY LINK	BURIED CABLE	GRADING/RIPRAP	RELOCATE	
IL. 41	19' RT.	STA. 402+50 TO STA. 404+25	CENTURY LINK	BURIED CABLE	DITCH GRADING	CAUTION	
IL. 41	19' RT.	STA. 404+40 TO STA. 405+60	CENTURY LINK	BURIED CABLE	GRADING/RIPRAP	RELOCATE	
IL. 41	25' RT.	STA. 399+43	SPOON RIVER COOPERATIVE	POWER POLE	NEW DITCH	RELOCATE	
IL. 41	27' RT.	STA. 402+60	SPOON RIVER COOPERATIVE	POWER POLE	NEW DITCH/RIPRAP	RELOCATE	
IL. 41	27' RT.	STA. 404+92	SPOON RIVER COOPERATIVE	POWER POLE	NEW DITCH/RIPRAP	RELOCATE	

USER NAME = *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)644-8033 IL Design Firm
 No. 184-001907

GENERAL NOTES, COMMITMENTS & MIX REQUIREMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	2
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				F. A. P. 574 80% FEDERAL 20% STATE	S. N. 029-0072 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60	
20200100	EARTH EXCAVATION	CU YD	496	496	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	65	65	
20300100	CHANNEL EXCAVATION	CU YD	533	533	
20400800	FURNISHED EXCAVATION	CU YD	125	125	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	593	593	
* 25000210	SEEDING, CLASS 2A	ACRE	0.7	0.7	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63	63	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63	63	
* 25000600	POTASSIUM FERILIZER NUTRIENT	POUND	63	63	
* 25100115	MULCH, METHOD 2	ACRE	0.7	0.7	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70	70	
28000305	TEMPORARY DITCH CHECKS	FOOT	180	180	
28000400	PERIMETER EROSION BARRIER	FOOT	1580	1580	


*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				F. A. P. 574 80% FEDERAL 20% STATE	S. N. 029-0072 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100107	STONE RIPRAP, CLASS A4	SO YD	1566		1566
28100227	STONE RIPRAP, CLASS B4	TON	585	585	
28200200	FILTER FABRIC	SO YD	2445	879	1566
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	108	108	
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SO YD	286	286	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	132	132	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	10	10	
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	1.7	1.7	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	390	390	
40600990	TEMPORARY RAMP	SO YD	73	73	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	672	672	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	155	155	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	43	43	

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				F. A. P. 574 80% FEDERAL 20% STATE	S. N. 029-0072 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
44000100	PAVEMENT REMOVAL	SO YD	157	157	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	263	263	
44004250	PAVED SHOULDER REMOVAL	SO YD	176	176	
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SO YD	172	172	
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SO YD	198	198	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	198	198	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	168	168	
50200100	STRUCTURE EXCAVATION	CU YD	46		46
50200300	COFFERDAM EXCAVATION	CU YD	10		10
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	120.6		120.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	252.8		252.8


CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				F. A. P. 574 80% FEDERAL 20% STATE	S. N. 029-0072 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
50300260	BRIDGE DECK GROOVING	SO YD	453		453
50300280	CONCRETE ENCASEMENT	CU YD	8.4		8.4
50300300	PROTECTIVE COAT	SO YD	576		576
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	71090		71090
50800515	BAR SPLICERS	EACH	414		414
50800530	MECHANICAL SPLICERS	EACH	66		66
51201400	FURNISHING STEEL PILES HP10X42	FOOT	879		879
51202305	DRIVING PILES	FOOT	879		879
51203400	TEST PILE STEEL HP10X42	EACH	2		2
51500100	NAME PLATES	EACH	1		1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	150	150	
54215550	METAL END SECTIONS 15"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	40		40
* 63000001	STEEL PLATE GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	462.5	462.5	

*SPECIALTY ITEM

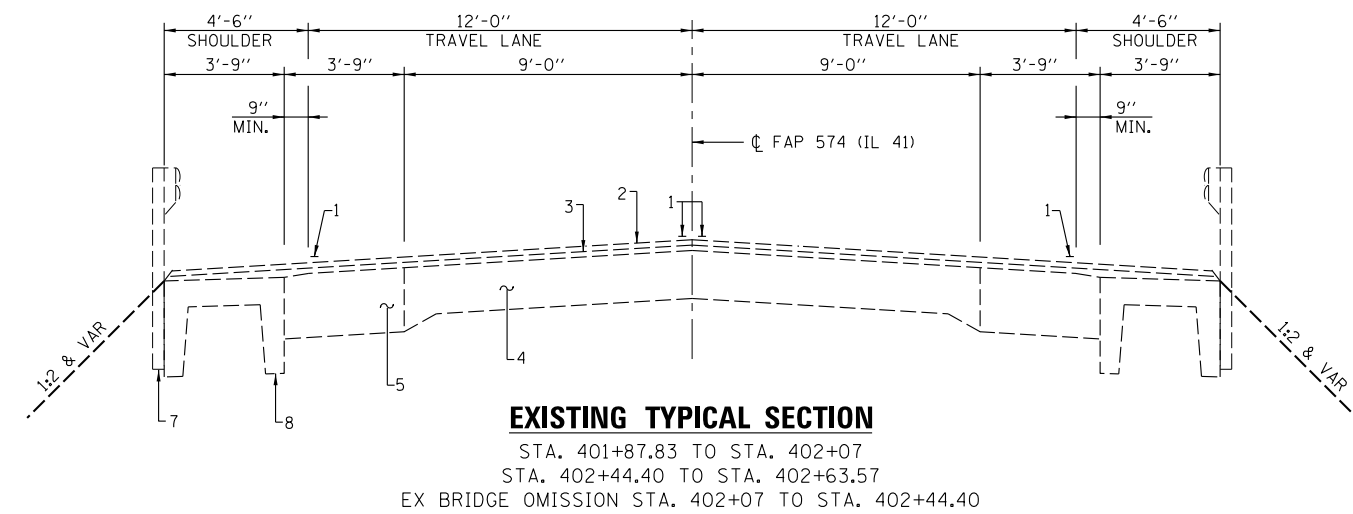
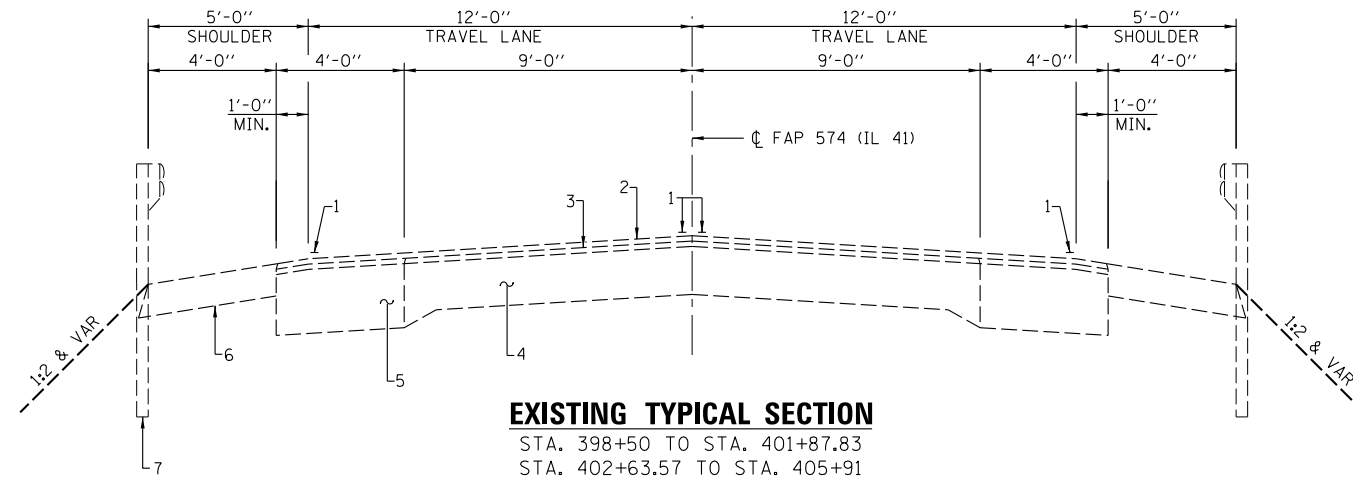
USER NAME * *USER*	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLGT SCALE * *SCALE*	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	574	12BR-1	FULTON	62	6
PLOT DATE * *DATE*	CHECKED -	REVISED -						CONTRACT NO. 68732				
	DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				F. A. P. 574	S. N. 029-0072
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	258	258	
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	1		1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	149	149	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2964	2964	

*SPECIALTY
ITEM


USER NAME * #USER*	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE * #SCALE*	DRAWN -	REVISED -					574	12BR-1	FULTON	62	7
PLOT DATE * #DATE*	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 68732			
	DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

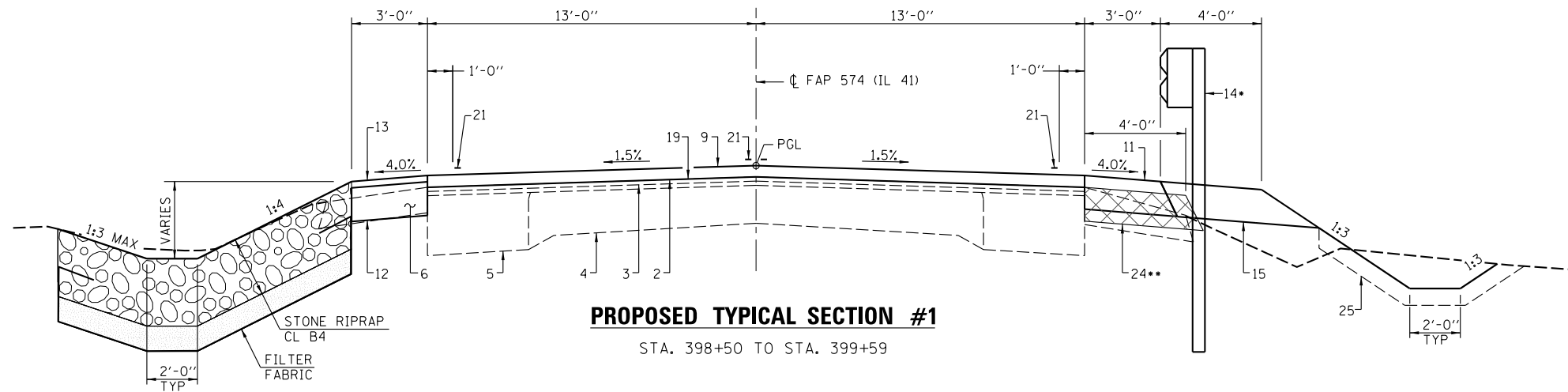
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				F. A. P. 574 80% FEDERAL 20% STATE	S. N. 029-0072 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
				0004	0011
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1038	1038	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	700	700	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	587.5	587.5	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2964	2964	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SO FT	800	800	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	205	205	
Z0001900	ASBESTO BEARING PAD REMOVAL	EACH	24		24
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0026407	TEMPORARY SHEET PILING	SO FT	380		380
* Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
* Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2	



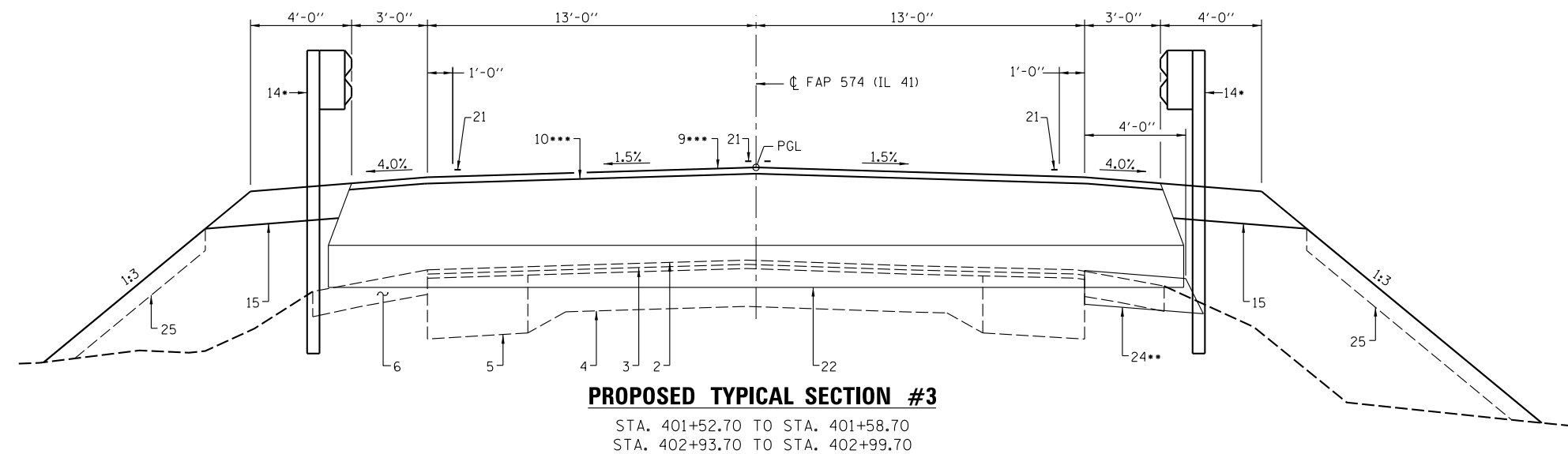
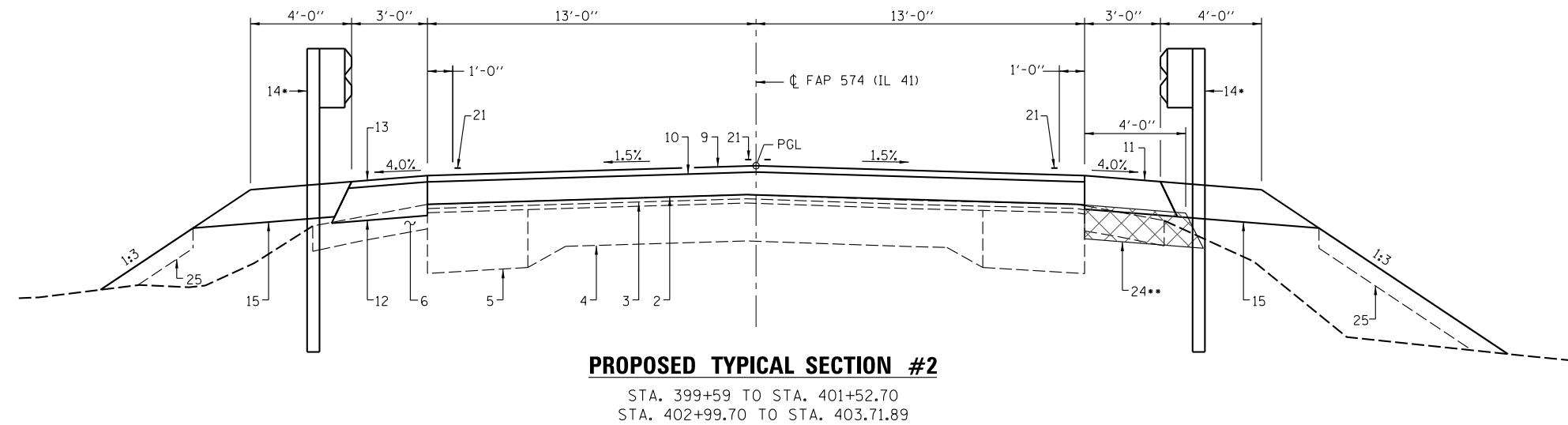
PAVEMENT LEGEND

1. EX PVMT MRK
2. EX HMA SURF CRSE
3. EX OVERLAY
4. EX PVMT BSE CRSE
5. EX BIT CONC BSE CRSE WIDENING (12")
6. EX AGG SHOULDER (6")
7. EX GUARDRAIL
8. EX PRECAST UNIT
9. PR HMA SURF CRSE (1 1/2" NOM.)
10. PR HMA BINDER CRSE (2 1/4" MIN.)
11. PR AGG SHOULDER, 8"
12. PR HMA SHOULDER, 8"
13. PR HMA SHLD, 1 1/2"
14. PR GUARDRAIL
15. PR AGG EROSION CONTROL, 8" (AT GUARDRAIL LOCATIONS)
16. PR CONCRETE APPROACH SLAB (15")
17. PR PVMT CONN (FLEX)
18. PR GRAN SUBBASE, TY A
19. PR HMA SURF REM-BUTT JT
20. PR HMA SURF REM, 1 1/2"
21. PR PVMT MRK - LINE 4"
22. PR CONC FTG (10")
23. PR EARTH SHLD
24. PR HMA BSE CRSE WIDENING, 8"
25. PR TOPSOIL, 4"
26. PR TEMP PVMT MARKING

USER NAME = *USER*	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	574	12BR-1	FULTON	62	10
PLOT DATE = *DATE*	CHECKED -	REVISED -				TO STA.	CONTRACT NO. 68732				
	DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL STONE RIPRAP DITCH



* STA. 399+93.01 TO STA. 401+73.66 LT
 STA. 402+78.74 TO STA. 405+59.39 LT
 STA. 398+93.01 TO STA. 401+73.66 RT
 STA. 402+78.74 TO STA. 403+71.89 RT

** STA. 398+60 TO STA. 401+87.83 RT
 STA. 402+63.57 TO STA. 405+80 RT
 (TBR) STA. 398+60 TO STA. 400+50 RT
 (TBR) STA. 403+75 TO STA. 405+80 RT

*** COST TO BE INCLUDED IN BRIDGE APPROACH
 PAVEMENT CONNECTOR (FLEXIBLE).

PAVEMENT LEGEND

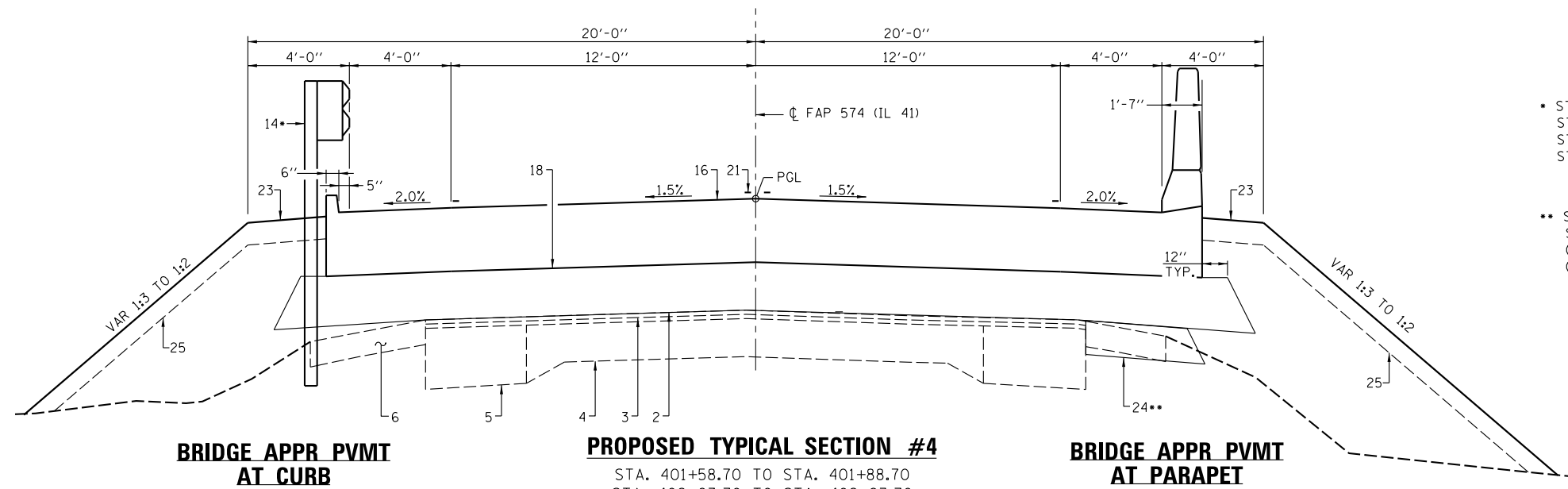
1. EX PVMT MRK
2. EX HMA SURF CRSE
3. EX OVERLAY
4. EX PVMT BSE CRSE
5. EX BIT CONC BSE CRSE WIDENING (12")
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7. EX GUARDRAIL
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23. PR EARTH SHLD
24. PR HMA BSE CRSE WIDENING, 8"
25. PR TOPSOIL, 4"
26. PR TEMP PVMT MARKING

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -

Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

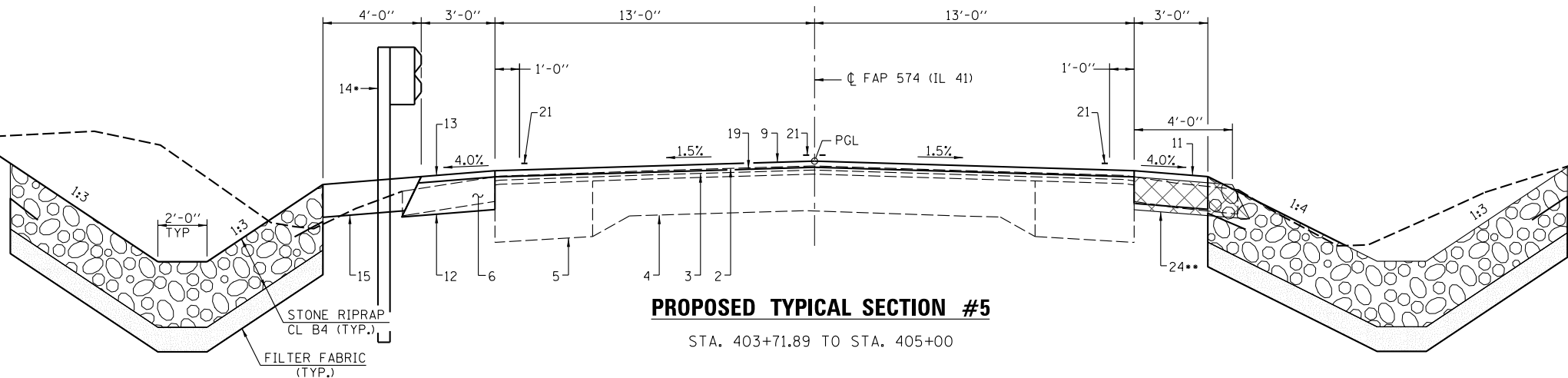
TYPICAL SECTIONS	
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	11
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



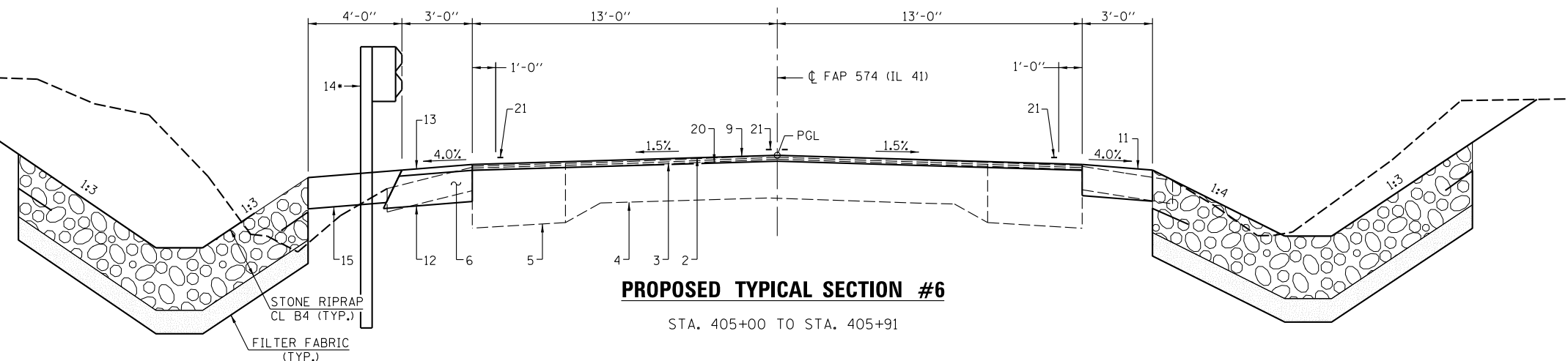
- STA. 399+93.01 TO STA. 401+73.66 LT
STA. 402+78.74 TO STA. 405+59.39 LT
STA. 398+93.01 TO STA. 401+73.66 RT
STA. 402+78.74 TO STA. 403+71.89 RT
- STA. 398+60 TO STA. 401+87.83 RT
STA. 402+63.57 TO STA. 405+80 RT
(TBR) STA. 398+60 TO STA. 400+50 RT
(TBR) STA. 403+75 TO STA. 405+80 RT

PROPOSED TYPICAL SECTION #4
 STA. 401+58.70 TO STA. 401+88.70
 STA. 402+63.70 TO STA. 402+93.70
 PR BRIDGE OMISSION STA. 401+88.70 TO STA. 402+63.70



PROPOSED TYPICAL SECTION #5
 STA. 403+71.89 TO STA. 405+00

TYPICAL STONE RIPRAP DITCH



PROPOSED TYPICAL SECTION #6
 STA. 405+00 TO STA. 405+91

PAVEMENT LEGEND

1. EX PVMT MRK
2. EX HMA SURF CRSE
3. EX OVERLAY
4. EX PVMT BSE CRSE
5. EX BIT CONC BSE CRSE WIDENING (12")
6. EX AGG SHOULDER (6")
7. EX GUARDRAIL
8. EX PRECAST UNIT
9. PR HMA SURF CRSE (1 1/2" NOM.)
10. PR HMA BINDER CRSE (2 1/4" MIN.)
11. PR AGG SHOULDER, 8"
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20. PR HMA SURF REM, 1 1/2"
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22. PR CONC FTG (10")
23. PR EARTH SHLD
24. PR HMA BSE CRSE WIDENING, 8"
25. PR TOPSOIL, 4"
26. PR TEMP PVMT MARKING

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -

Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

TYPICAL SECTIONS	
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	12
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 398+50 TO STA. 401+88.20	176	132	371	-239
STA. 402+64.20 TO STA. 405+91	320	240	126	114
TOTAL	496	372	497	-125

GUARDRAIL SCHEDULE				
LOCATION	SPBGR TYPE A, 6' POSTS	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL TANGENT)	TERMINAL MARKER - DIRECT APPLIED
	FOOT	EACH	EACH	EACH
STA. 399+93.01 LT.				1
STA. 399+93.01 TO STA. 400+43.01 LT.			1	
STA. 400+43.01 TO STA. 401+30.51 LT.	87.5			
STA. 401+30.51 TO STA. 401+73.66 LT.		1		
STA. 402+78.74 TO STA. 403+21.89 LT.		1		
STA. 403+21.89 TO STA. 405+09.39 LT.	187.5			
STA. 405+09.39 TO STA. 405+59.39 LT.			1	
STA. 405+59.39 LT.				1
STA. 398+93.01 RT.				1
STA. 398+93.01 TO STA. 399+43.01 RT.			1	
STA. 399+43.01 TO STA. 401+30.51 RT.	187.5			
STA. 401+30.51 TO STA. 401+73.66 RT.		1		
STA. 402+78.74 TO STA. 403+21.89 RT.		1		
STA. 403+21.89 TO STA. 403+71.89 RT.			1	
STA. 403+71.89 RT.				1
TOTAL	462.5	4	4	4

CHANNEL EXCAVATION SCHEDULE	
LOCATION	CHANNEL EXCAVATION
	CU. YD.
STA. 401+88.20, 70' LT. TO STA. 402+64.2, 75' RT.	533
TOTAL	533

BRIDGE APPR. PVMT. CONN. (FLEX) SCHEDULE	
LOCATION	BRIDGE APPR PVMT CONN
	SO. YD.
STA. 401+52.70 TO STA. 401+58.70	21.5
STA. 402+93.70 TO STA. 405+99.70	21.5
TOTAL	43

PAVED SHOULDER REMOVAL SCHEDULE	
LOCATION	PAVED SHOULDER REMOVAL
	SO. YD.
STA. 398+60 TO STA. 400+50 RT.	85
STA. 403+75 TO STA. 405+80 RT.	91
TOTAL	176

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	UNIT
STA. 401+47, 33' RT.	2 x 7 = 14
STA. 401+56, 44' RT.	2 x 7 = 14
STA. 401+94, 44' RT.	4 x 8 = 32
TOTAL	60

PIPE CULVERT REMOVAL SCHEDULE	
LOCATION	PIPE CULVERT REMOVAL
	FOOT
STA. 402+43, 22' RT. TO STA. 404+11, 24' RT.	168
TOTAL	168

AGGREGATE SURFACE COURSE, TYPE B SCHEDULE	
LOCATION	AGGREGATE SURFACE COURSE, TYPE B
	TON
P.E. STA. 404+23 RT.	132
TOTAL	132

PAVEMENT REMOVAL SCHEDULE	
LOCATION	PAVEMENT REMOVAL
	SO. YD.
STA. 401+80.2 TO STA. 402+06.5	76
STA. 402+44.5 TO STA. 402+72.2	81
TOTAL	157

GUARDRAIL REMOVAL SCHEDULE	
LOCATION	GUARDRAIL REMOVAL
	FOOT
STA. 401+10 TO STA. 401+87 LT.	77
STA. 402+64 TO STA. 403+41 LT.	77
STA. 401+10 TO STA. 401+87 RT.	77
STA. 402+64 TO STA. 402+91 RT.	27
TOTAL	258

AGGREGATE FOR TEMPORARY ACCESS SCHEDULE	
LOCATION	AGGREGATE TEMPORARY ACCESS
	TON
P. E. STA. 403+87 RT.	10
TOTAL	10

TEMPORARY RAMP SCHEDULE	
LOCATION	TEMPORARY RAMP
	SO. YD.
STA. 398+50 TO STA. 398+55	14.5
STA. 399+52.5 TO STA. 399+60	22
STA. 404+20 TO STA. 404+27.5	22
STA. 405+86 TO STA. 405+91	14.5
TOTAL	73

SUB-BASE GRANULAR MATERIAL, TYPE A SCHEDULE	
LOCATION	QUANTITY
	TON
STA. 401+65.7 TO STA. 401+82	58
STA. 402+70.4 TO STA. 402+86.7	50
TOTAL	108

MATERIAL TRANSFER DEVICE SCHEDULE	
LOCATION	QUANTITY
	TON
STA. 398+50 TO STA. 399+60	27
STA. 399+60 TO STA. 401+52.7	117
STA. 402+99.7 TO STA. 404+20	73
STA. 404+20 TO STA. 405+91	42
TOTAL	259

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE		
LOCATION	RRPM	RRPM REMOVAL
	EACH	EACH
STA. 398+50 TO STA. 405+91	10	
STA. 398+50 TO STA. 401+80.2		5
STA. 402+72.20 TO STA. 405+91		5
TOTAL	10	10

SEEDING SCHEDULE					
LOCATION	SEEDING CLASS A2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	ACRE
STA. 398+50 TO STA. 405+91 LT.	0.3	27	27	27	0.3
STA. 398+50 TO STA. 405+91 RT.	0.4	36	36	36	0.4
TOTAL	0.7	63	63	63	0.7

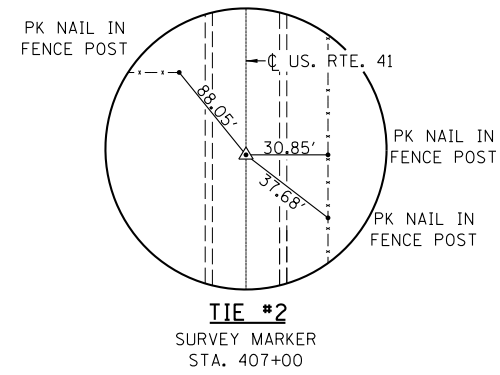
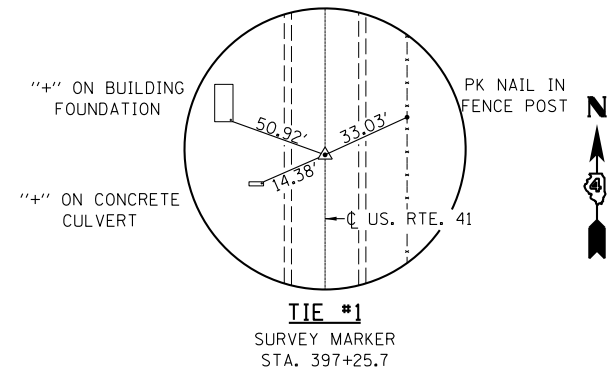
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	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -



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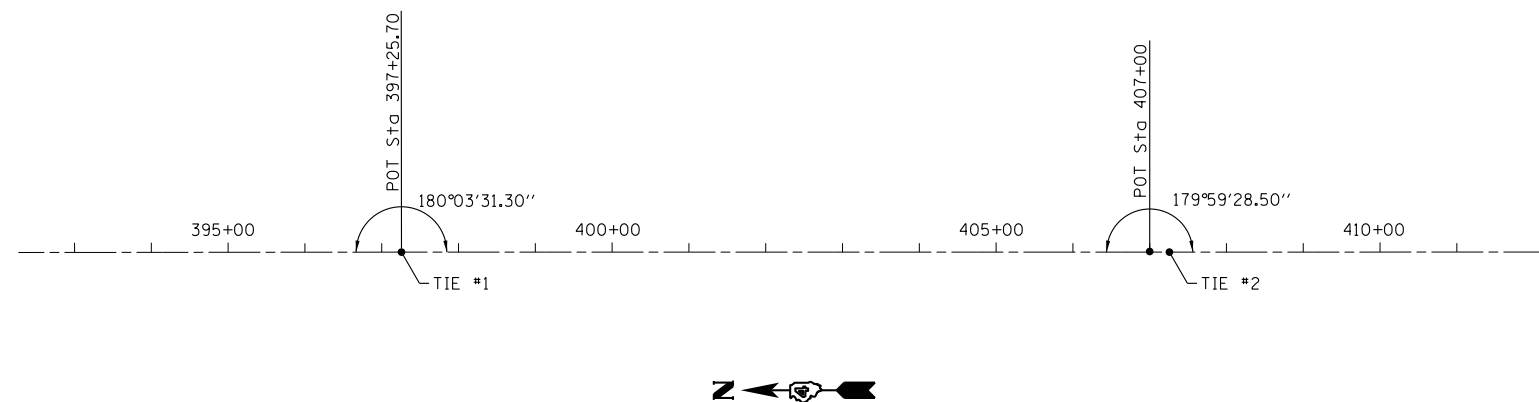
QUANTITY SCHEDULES		
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	13
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BM#1- 5/8" IRON ROD 11' NORTH & 3' EAST OF THE SOUTH END OF GUARDRAIL IN COMPACTED GRAVEL ON THE EAST SIDE OF IL 41 SOUTH OF THE BRIDGE.
EL= 626.54

BM#2- CHISELED SQUARE ON THE TOP OF THE SOUTHWEST WING WALL
EL= 623.25



USER NAME = *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

ALIGNMENT, TIES & BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	15
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

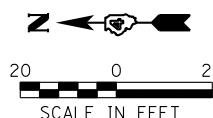
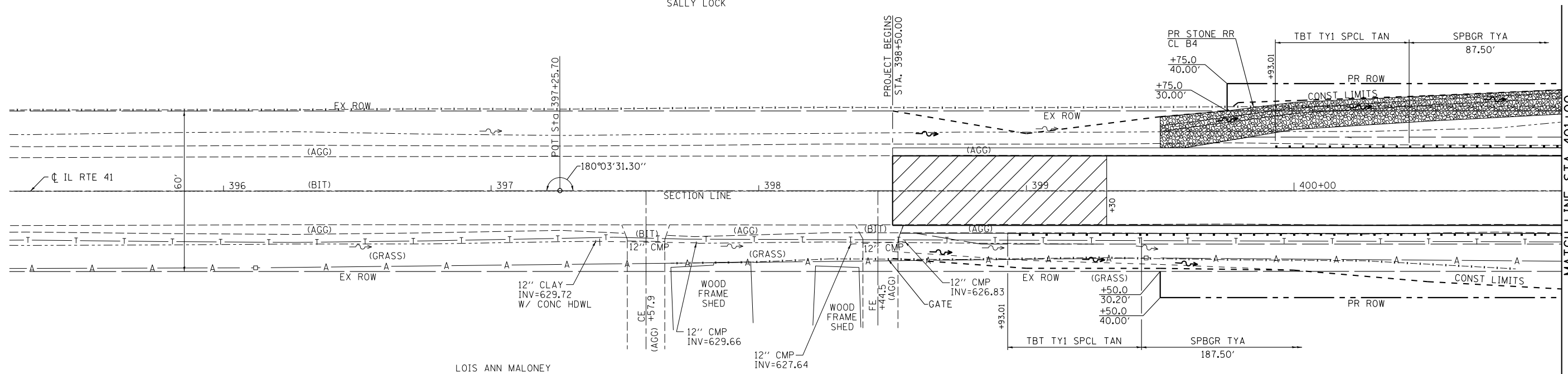
JAMES &
SALLY LOCK

JAMES &
SALLY LOCK

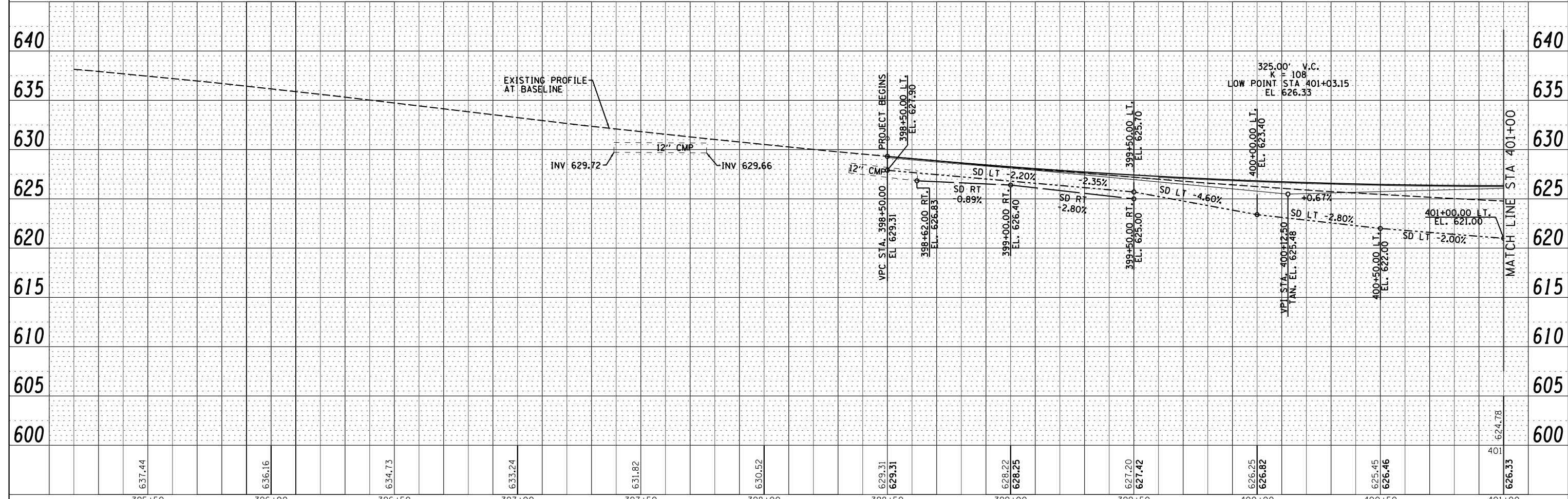
HMA SURF REM-BUTT JOINT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE	
	NOTATRS CHFD	
	NO.	



NOTE:
SEE PROPOSED TYPICAL SECTION
FOR SHOULDER MATERIAL TYPE.



USER NAME = *USER*	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -

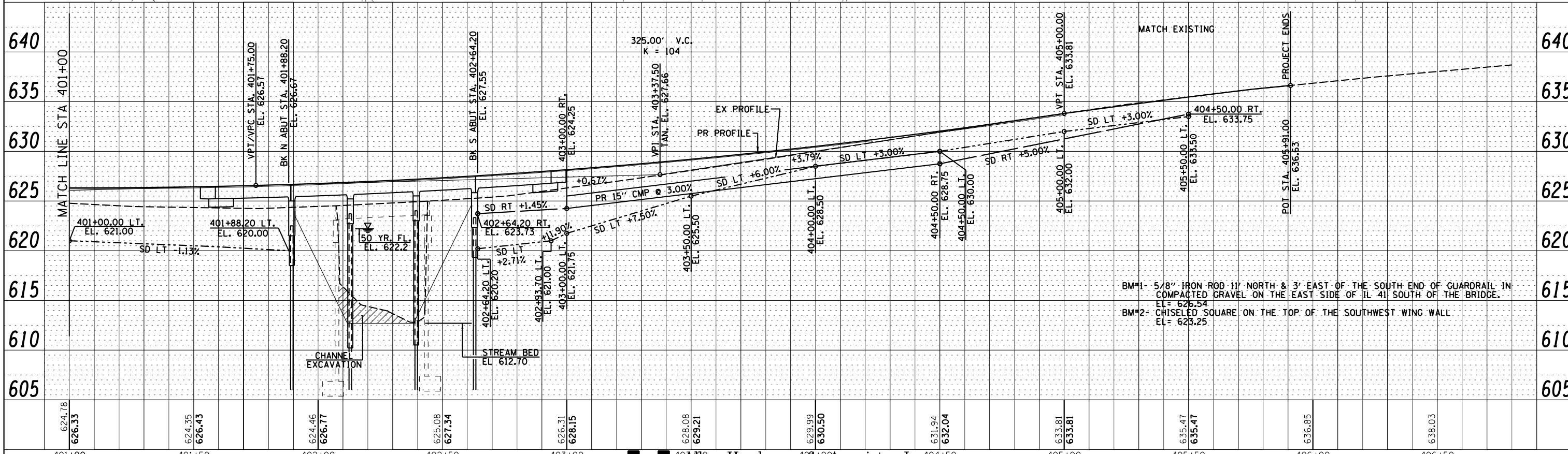
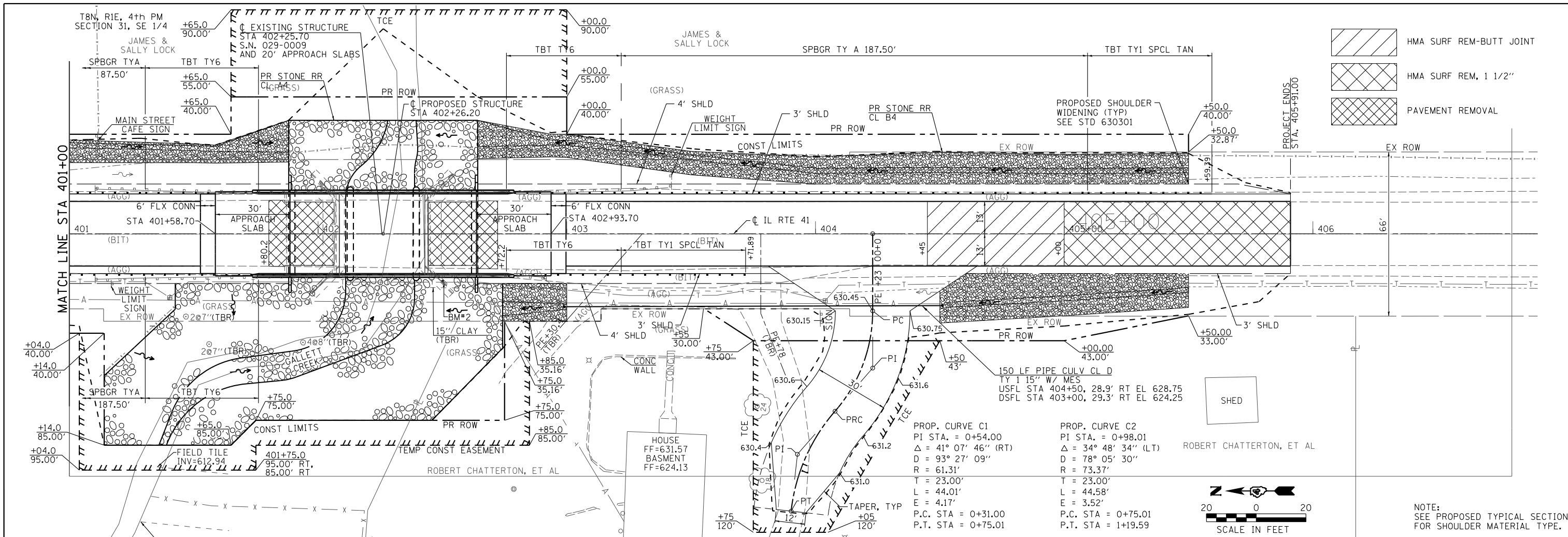
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PLAN & PROFILE	
SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS
STA. 398+50.00 TO STA. 401+00.00	

F.A.P. RTE. 574	SECTION 12BR-1	COUNTY FULTON	TOTAL SHEETS 62	SHEET NO. 16
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHFD		
	NO.		



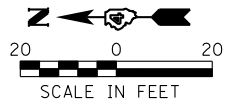
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401+00	401+50	402+00	402+50	403+00	404+00	404+50	405+00	405+50	406+00	406+50	

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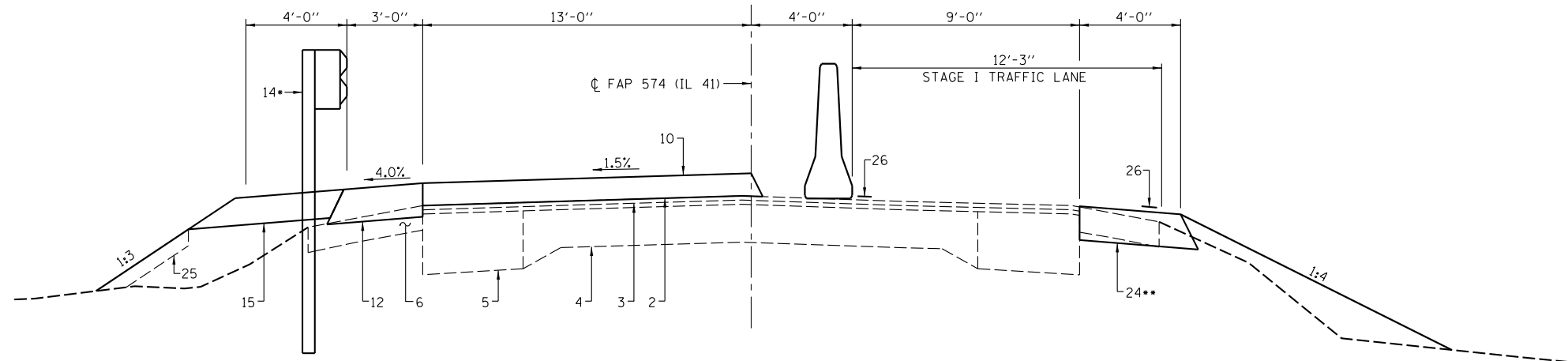
PLAN & PROFILE

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 401+00.00 TO STA. 405+91.00
F.A.P. RTE. 574 SECTION 12BR-1 COUNTY FULTON TOTAL SHEETS 62 SHEET NO. 17
CONTRACT NO. 68732
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

NOTE:
SEE PROPOSED TYPICAL SECTION
FOR SHOULDER MATERIAL TYPE.

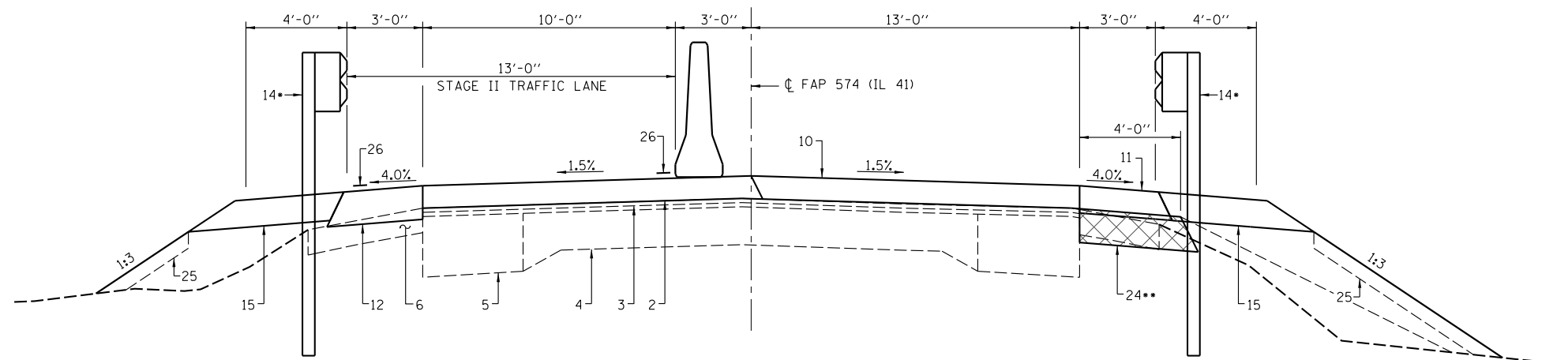


- HMA SURF REM-BUTT JOINT
- HMA SURF REM, 1 1/2"
- PAVEMENT REMOVAL



PROPOSED TYPICAL SECTION
STAGE I


- STA. 399+93.01 TO STA. 401+73.66 LT
STA. 402+78.74 TO STA. 405+59.39 LT
STA. 398+93.01 TO STA. 401+73.66 RT
STA. 402+78.74 TO STA. 403+71.89 RT
- STA. 398+60 TO STA. 401+87.83 RT
STA. 402+63.57 TO STA. 405+80 RT
(TBR) STA. 398+60 TO STA. 400+50 RT
(TBR) STA. 403+75 TO STA. 405+80 RT

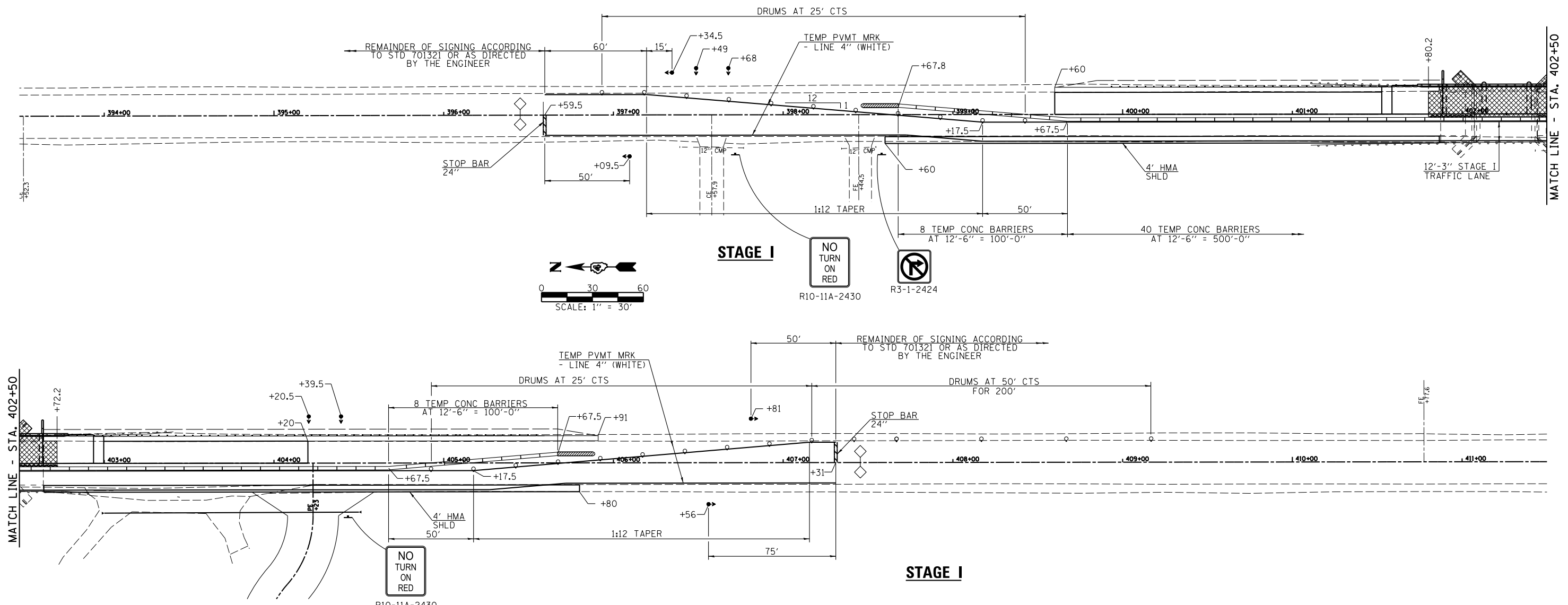


PROPOSED TYPICAL SECTION
STAGE II

PAVEMENT LEGEND

1. EX PVMT MRK
2. EX HMA SURF CRSE
3. EX OVERLAY
4. EX PVMT BSE CRSE
5. EX BIT CONC BSE CRSE WIDENING (12")
6. EX AGG SHOULDER (6")
7. EX GUARDRAIL
8. EX PRECAST UNIT
9. PR HMA SURF CRSE (1 1/2" NOM.)
10. PR HMA BINDER CRSE (2 1/4" MIN.)
11. PR AGG SHOULDER, 8"
12. PR HMA SHOULDER, 8"
13. PR HMA SHLD, 1 1/2"
14. PR GUARDRAIL
15. PR AGG EROSION CONTROL, 8" (AT GUARDRAIL LOCATIONS)
16. PR CONCRETE APPROACH SLAB (15")
17. PR PVMT CONN (FLEX)
18. PR GRAN SUBBASE, TY A
19. PR HMA SURF REM-BUTT JT
20. PR HMA SURF REM, 1 1/2"
21. PR PVMT MRK - LINE 4"
22. PR CONC FTG (10")
23. PR EARTH SHLD
24. PR HMA BSE CRSE WIDENING, 8"
25. PR TOPSOIL, 4"
26. PR TEMP PVMT MARKING

USER NAME = *USER*	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE CONSTRUCTION TRAFFIC DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	574	12BR-1	FULTON	62	18
PLOT DATE = *DATE*	CHECKED -	REVISED -				TO STA.	CONTRACT NO. 68732				
	DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SUGGESTED STAGE CONSTRUCTION SEQUENCE

PRE-STAGE I

1. REMOVE EXISTING AGG SHOULDER FROM STA. 398+60 TO STA. 401+86 RT. AND STA. 402+64 TO STA. 405+80 RT. AND REPLACE WITH HMA BASE COURSE WIDENING 8' UNDER STANDARD 701201.
2. CONSTRUCT PE AND PIPE CULVERT STA. 404+23 RT.

STAGE I

1. ERECT TRAFFIC CONTROL FOR STAGE I CONSTRUCTION.
2. REMOVE EXISTING PAVEMENT FROM STA. 401+80.2 TO STA. 402+72.2 LT.
3. REMOVE EXISTING STRUCTURE LEFT, C 402+25.70 AND GUARDRAIL.
4. CONSTRUCT PROPOSED STAGE I STRUCTURE, C 402+26.20 LT.
5. CONSTRUCT PROPOSED HMA BINDER COURSE STA. 399+60 TO STA. 404+20 LT.
6. CONSTRUCT PROPOSED HMA AND AGGREGATE SHOULDERS AND GUARDRAIL FROM STA. 399+60 TO STA. 405+91 LT.

STAGE II

1. ERECT TRAFFIC CONTROL FOR STAGE II CONSTRUCTION.
2. REMOVE EXISTING HMA WIDENING FROM STA. 398+60 TO STA. 400+50 RT. & FROM STA. 403+75 TO STA. 405+80 RT.
3. REMOVE EXISTING PAVEMENT FROM STA. 401+80.2 TO STA. 402+72.2 RT.
4. REMOVE EXISTING STRUCTURE RIGHT, C 402+25.70 AND GUARDRAIL.
5. CONSTRUCT PROPOSED STAGE II STRUCTURE, C 402+26.20 RT.
6. CONSTRUCT PROPOSED HMA BINDER COURSE FROM STA. 399+60 TO STA. 404+20 RT.
7. CONSTRUCT PROPOSED HMA AND AGGREGATE SHOULDERS AND GUARDRAIL FROM STA. 398+50 TO STA. 405+91 RT.

FINAL

1. REMOVE ALL STAGE TRAFFIC CONTROL AND RE-ESTABLISH NORMAL TRAFFIC PATTERNS.
2. COMPLETE HMA SURFACE COURSE AND SHOULDERS ON ROADWAY UNDER STANDARD 701201.
3. FINAL STRIPING, SEEDING AND MISCELLANEOUS CLEAN-UP.

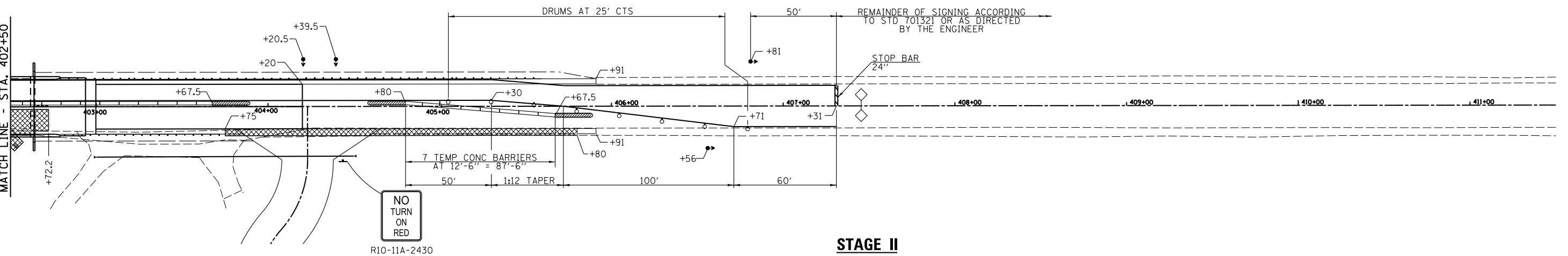
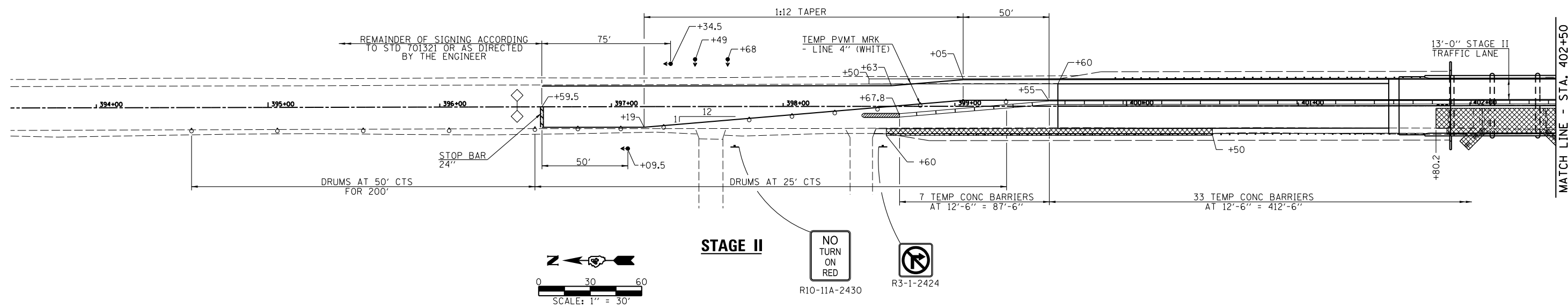
GENERAL NOTES

1. THIS TRAFFIC CONTROL DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD 701321.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE REVISED STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANDARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL."
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES DURING ALL PHASES OF CONSTRUCTION.
4. SIGNING FOR STAGE II SAME AS STAGE I.

SYMBOLS

- SHOULDER REMOVAL
- PAVEMENT REMOVAL
- STRUCTURE REMOVAL
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIP
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

USER NAME = *USER*	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907		STAGE CONSTRUCTION TRAFFIC DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = *SCALE*	DRAWN -	REVISED -						574	12BR-1	FULTON	62	19
PLOT DATE = *DATE*	CHECKED -	REVISED -						CONTRACT NO. 68732				
				SCALE: 1" = 30'		SHEET NO. 2 OF 3 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



TEMPORARY CONCRETE BARRIER SCHEDULE

LOCATION STATION TO STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR	RELOCATE IMPACT ATTENUATOR
	FOOT	FOOT	EACH	EACH
STAGE I				
STA. 398+45.8 TO STA. 398+67.8			1	
STA. 398+67.8 TO STA. 405+67.5	700			
STA. 405+67.5 TO STA. 405+89.5			1	
STAGE II				
STA. 398+45.8 TO STA. 398+67.8				1
STA. 398+67.8 TO STA. 403+67.5		500		
STA. 403+80 TO STA. 404+02			1	
STA. 404+58 TO STA. 404+80			1	
STA. 404+80 TO STA. 405+67.5		87.5		
STA. 405+67.5 TO STA. 405+89.5				1
TOTAL	700	587.5	4	2

SYMBOLS

- SHOULDER REMOVAL
- PAVEMENT REMOVAL
- STRUCTURE REMOVAL
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIP
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -

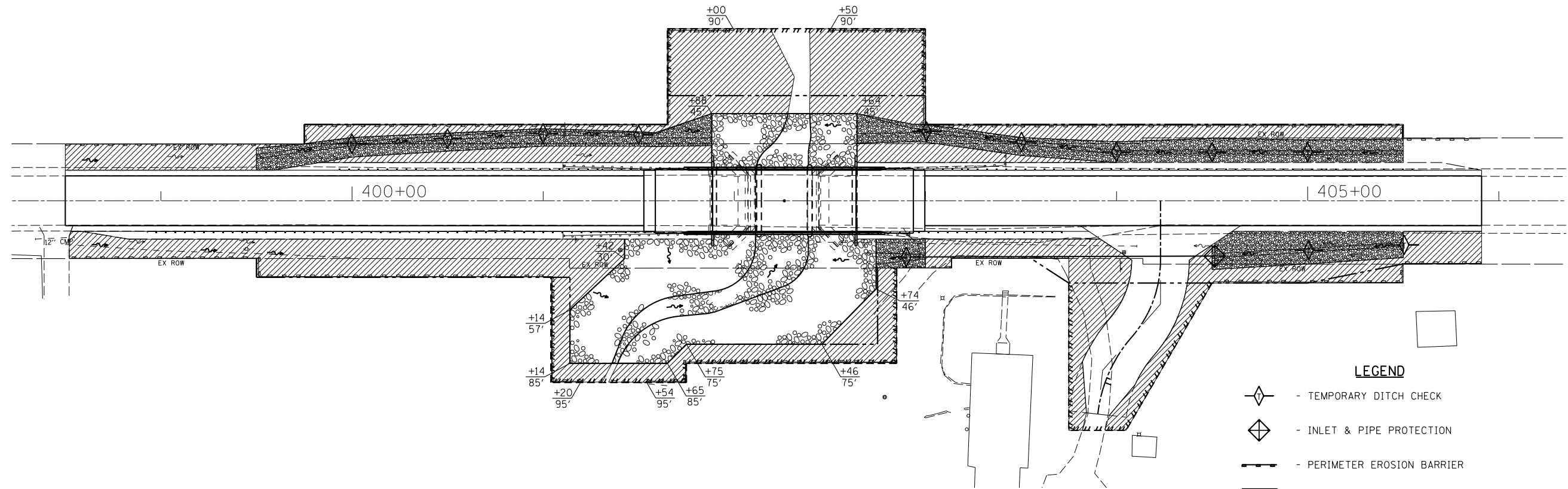


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No. 184-001907







STAGE CONSTRUCTION TRAFFIC DETAILS

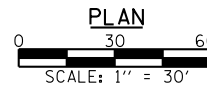
SCALE: 1" = 30' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	20
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

-  - TEMPORARY DITCH CHECK
-  - INLET & PIPE PROTECTION
-  - PERIMETER EROSION BARRIER
-  - *STONE RIPRAP, CLASS A4
-  - STONE RIPRAP, CLASS B4
-  - TEMPORARY EROSION CONTROL SEEDING



TEMPORARY EROSION CONTROL ITEMS SCHEDULE

LOCATION	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET & PIPE PROTECTION
	POUND	FOOT	FOOT	EACH
STA. 398+50 TO STA. 405+91 LT.	30			
STA. 398+50 TO STA. 405+91 RT.	40			
STA. 398+50 TO STA. 405+00 LT.			410	
STA. 402+50 TO STA. 405+91 LT.			400	
STA. 398+50 TO STA. 401+20 RT.			330	
STA. 401+54 TO STA. 405+91 RT.			440	
STA. 400+00 LT.		15		
STA. 400+50 LT.		15		
STA. 401+00 LT.		15		
STA. 401+50 LT.		15		
STA. 402+90 RT.		15		
STA. 403+00 LT.		15		
STA. 403+50 LT.		15		
STA. 404+00 LT.		15		
STA. 404+50 LT.		15		
STA. 405+00 LT. & RT.		30		
STA. 405+50 RT.		15		
STA. 404+50 RT.				1
TOTAL	70	180	1580	1

RIPRAP SCHEDULE

LOCATION	STONE RIPRAP, CLASS B4	*STONE RIPRAP, CLASS A4	FILTER FABRIC
	TON	SQ. YD.	SQ. YD.
STA. 399+50 TO STA. 401+88.20 LT.	195		293
STA. 402+64.20 TO STA. 405+50 LT.	238		357
STA. 402+74.20 TO STA. 403+00 RT.	29		44
STA. 404+50 TO STA. 405+50 RT.	123		185
STA. 401+88.20 TO STA. 402+64.20 LT. & STA. 401+14 TO STA. 402+74.20 RT.		*1566	*1566
TOTAL	585	*1566	2445

* STRUCTURE QUANTITY

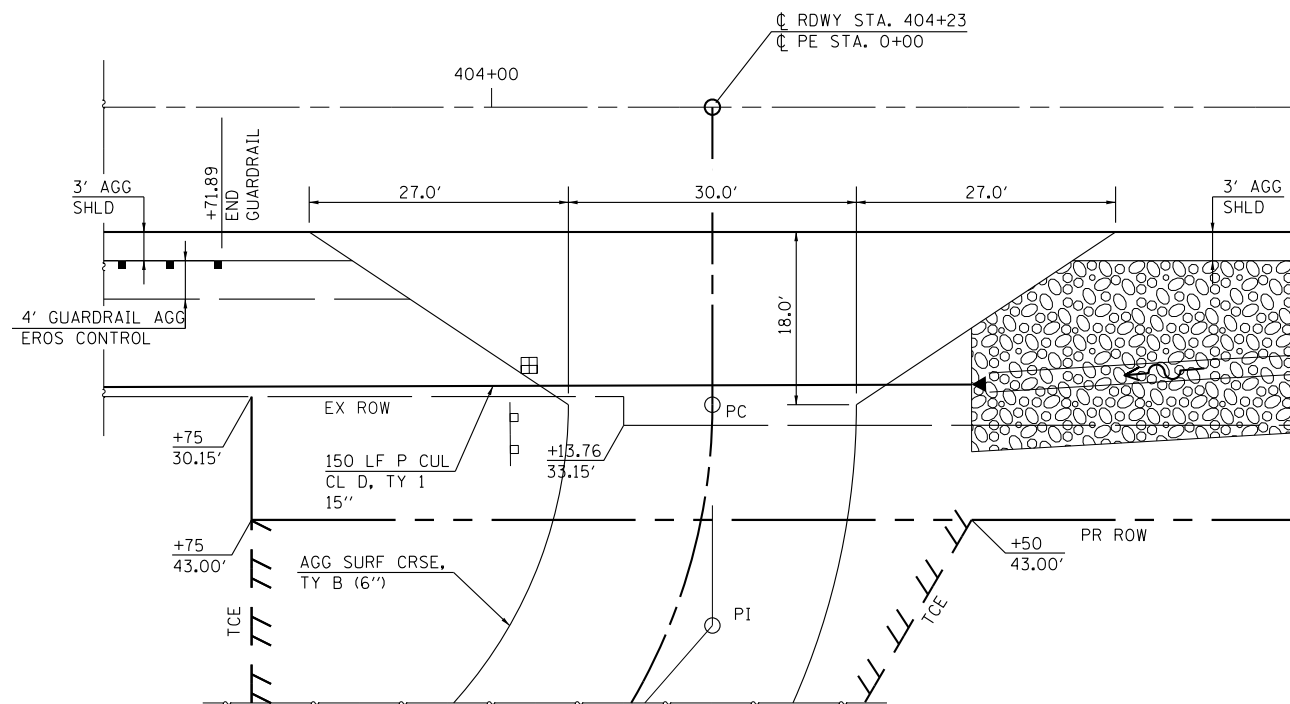
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	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -



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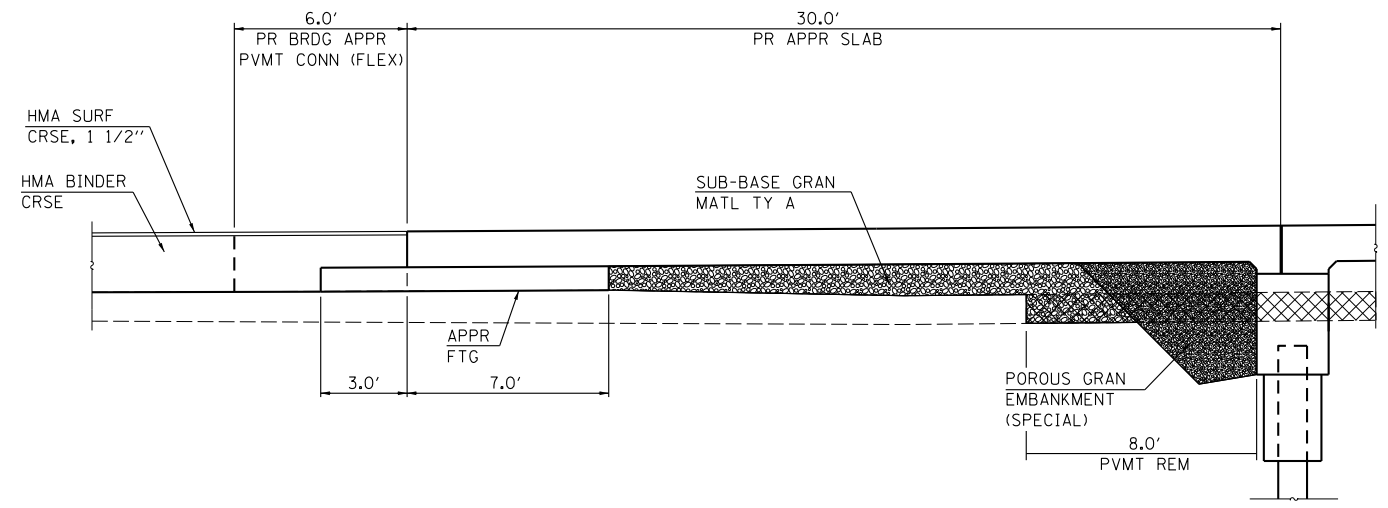
EROSION CONTROL PLAN	
SCALE: 1"=30'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	21
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

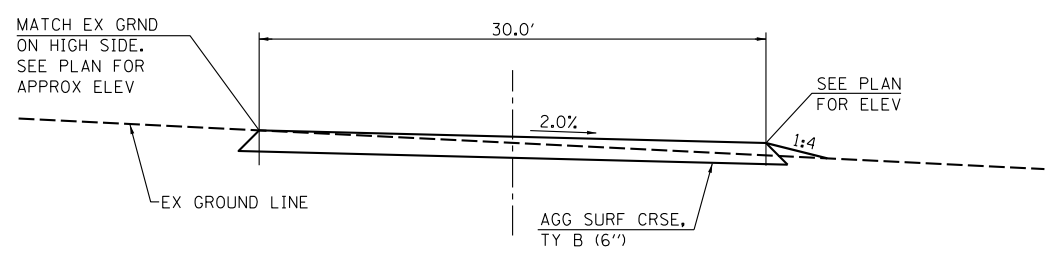


ENTRANCE DETAIL – PE STA 404+23

SEE PLAN & PROFILE FOR ADDITIONAL INFORMATION

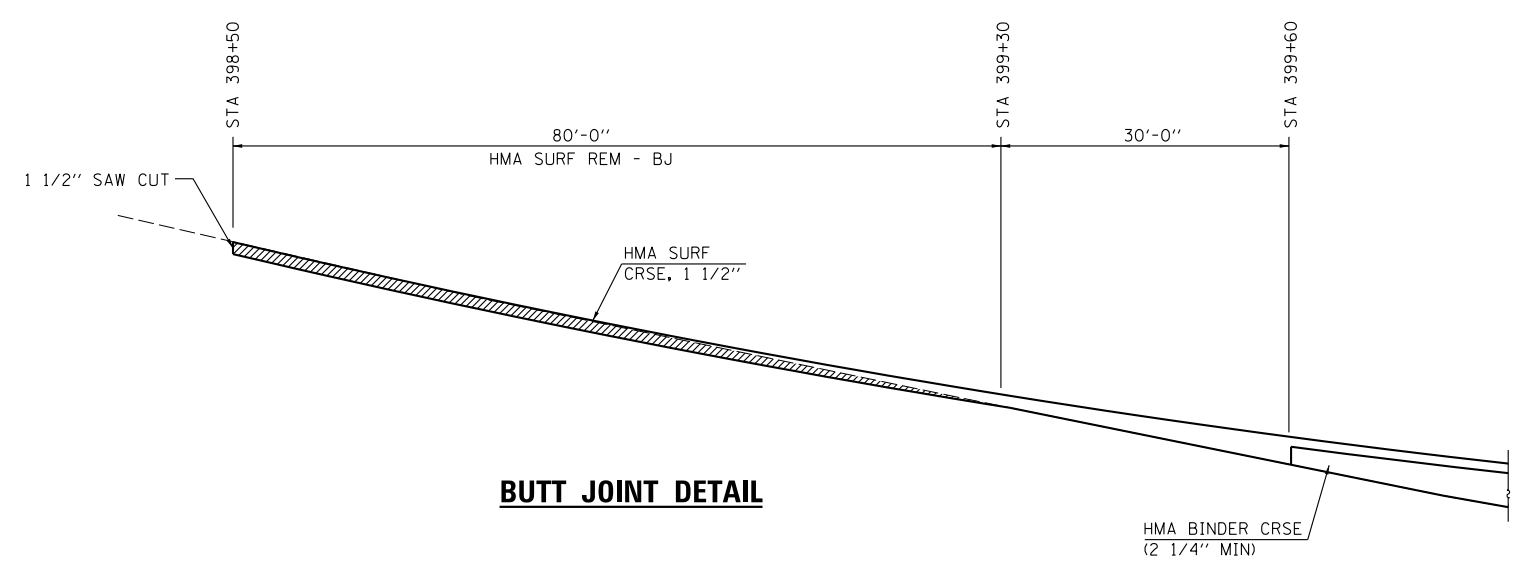


TYPICAL DETAIL AT APPROACH SLAB

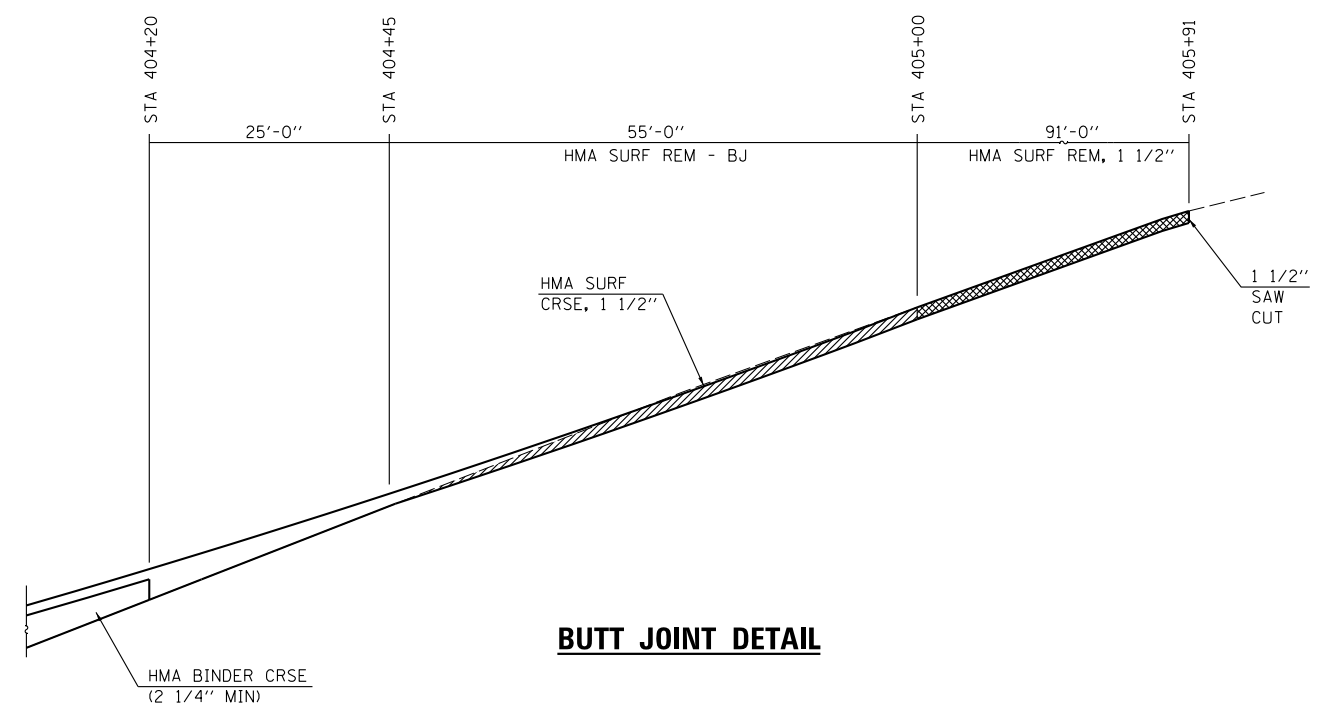


TYPICAL ENTRANCE SECTION

LOOKING WEST



BUTT JOINT DETAIL



BUTT JOINT DETAIL

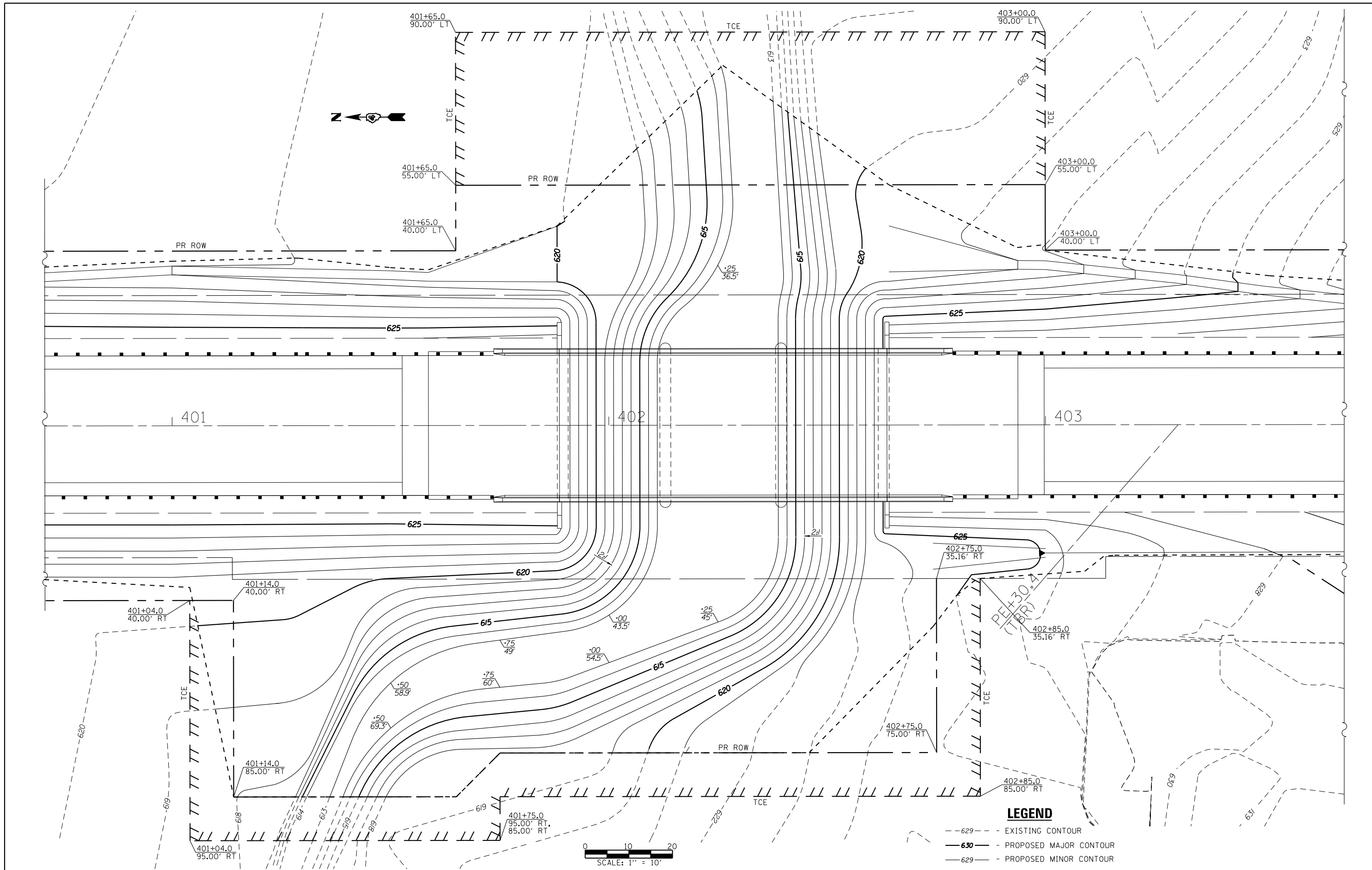
USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -



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 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

ENTRANCE AND BUTT JOINT DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	22
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

GRADING PLAN
 SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	23
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Benchmarks: 1.) BM #1: Chiseled "□" on the top of the southwest wingwall Sta. 402+49/18' RT. Elevation = 623.25.

Existing Structure: SN 029-0009, built in 1924 as Section 12B, rebuilt in 1975 as Section 12 BR. The superstructure consists of 11 precast prestressed concrete deck beams with guardrail attached to the exterior beams and bituminous wearing surface. The substructure consists of reinforced concrete closed abutments and reinforced concrete vertical cantilever wingwalls supported by spread footings on untreated timber piles. The back-to-back of abutments dimension measures 37'-4 3/4" and the out-to-out dimension measures 33'-0". The span length is 35'-7 1/4" with no skew. One lane of traffic will be maintained utilizing stage construction.

No Salvage.

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications, 4th Edition (2009 Interim Revisions)

DESIGN STRESSES

FIELD UNITS:
f'c = 3,500 psi (Cast-In-Place)
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.108 g
Design Spectral Acceleration at 0.2 sec. (SDs) = 0.164 g
Soil Site Class = D

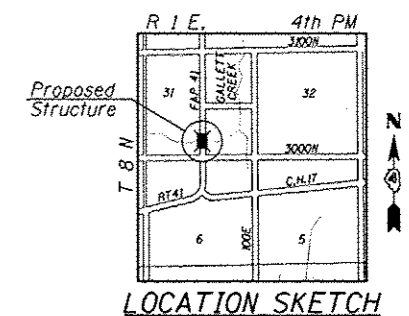
STATION 402+26.20
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 574 SECTION 12BR-1
LOADING HL-93
STR. NO. 029-0072

NAME PLATE
See Std. 515001

Exp: 10/30/2012



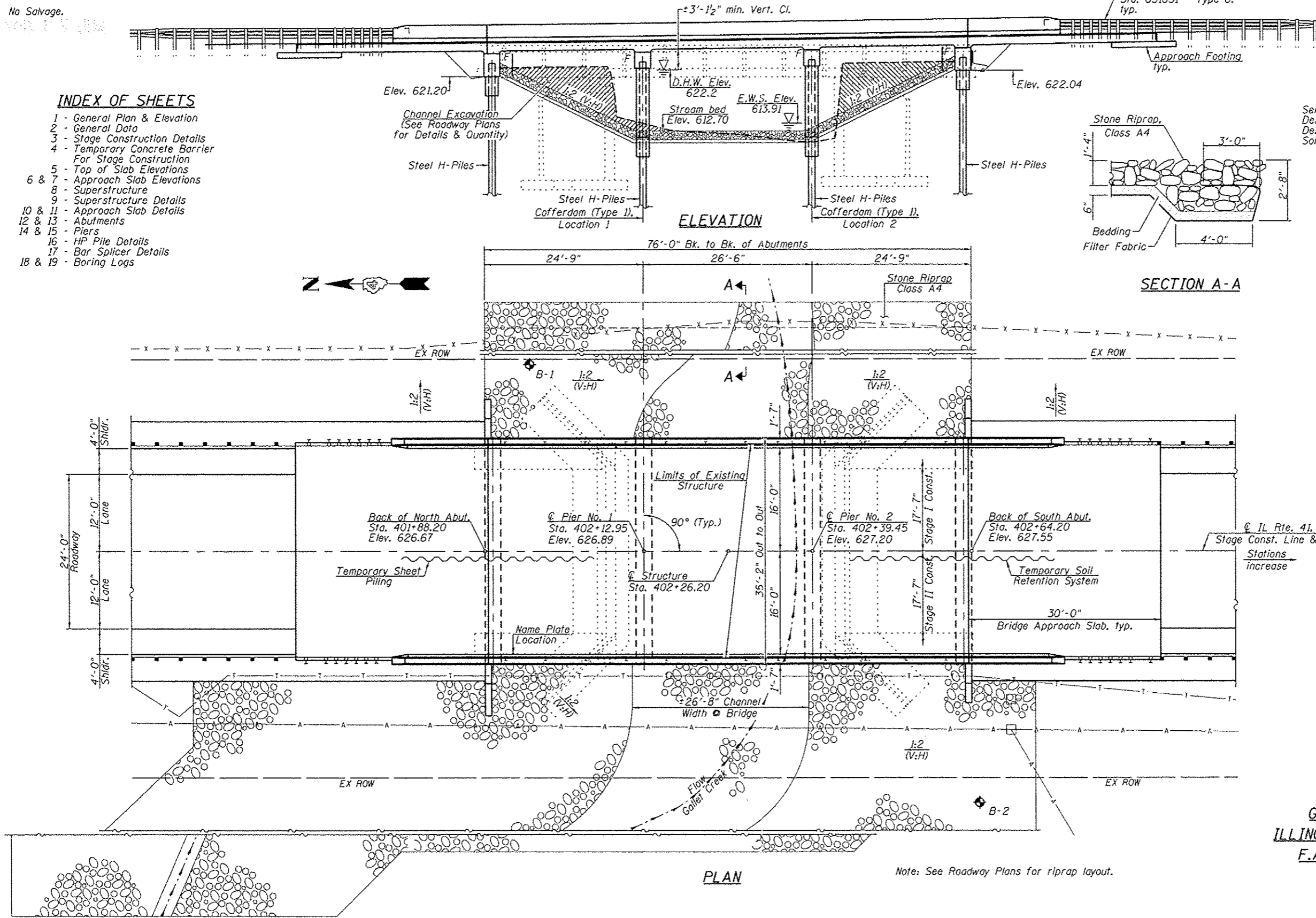
Gerald B. Rothert
Date: 8/16/2012



APPROVED
For Structural Adequacy Only

D. Carl Remy
Engineer of Bridges & Structures

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 41 OVER GALLET CREEK
F.A.P. ROUTE 574 SECTION 12BR-1
FULTON COUNTY
STATION 402+26.20
STRUCTURE NO. 029-0072



- INDEX OF SHEETS**
- 1 - General Plan & Elevation
 - 2 - General Data
 - 3 - Stage Construction Details
 - 4 - Temporary Concrete Barrier For Stage Construction
 - 5 - Top of Slab Elevations
 - 6 & 7 - Approach Slab Elevations
 - 8 - Superstructure
 - 9 - Superstructure Details
 - 10 & 11 - Approach Slab Details
 - 12 & 13 - Abutments
 - 14 & 15 - Piers
 - 16 - HP Pile Details
 - 17 - Bar Splicer Details
 - 18 & 19 - Boring Logs

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	GENERAL PLAN & ELEVATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	CHECKED -	REVISED -	REVISED -		STRUCTURE NO. 029-0072	574	12BR-1	FULTON	62	24	
PLOT DATE =	DRAWN -	REVISED -	REVISED -		SHEET NO. 1 OF 19 SHEETS	CONTRACT NO. 68732					
	CHECKED -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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

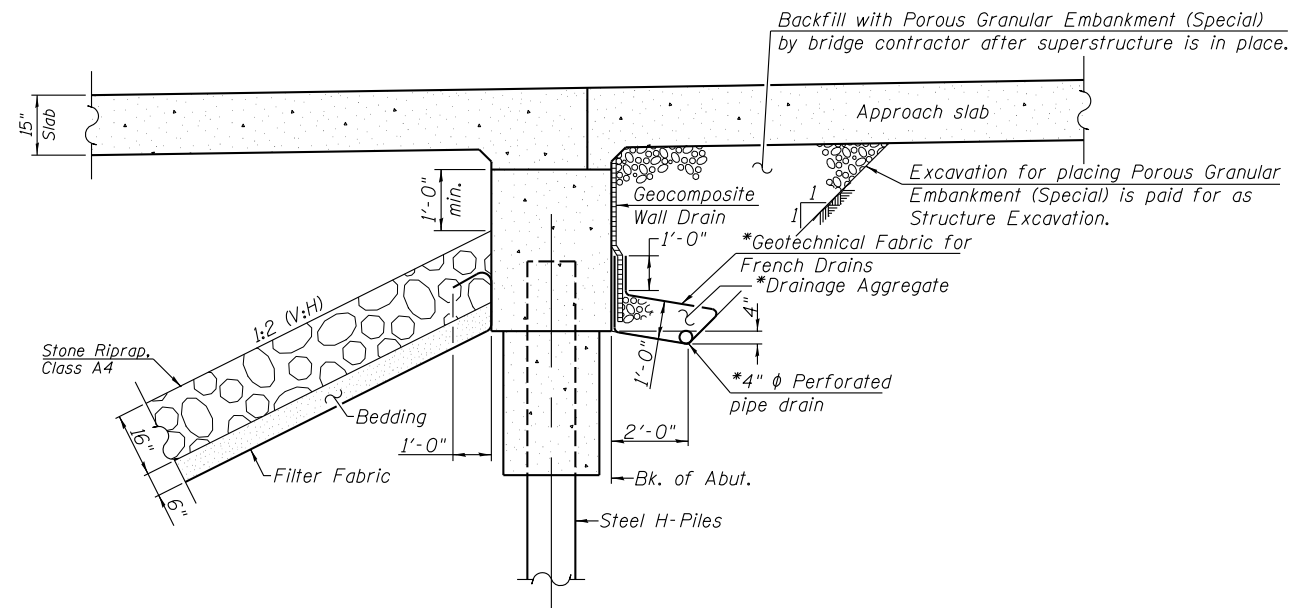
The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

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 structure.

Slipforming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1566	1566
Filter Fabric	Sq. Yd.		1566	1566
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		46	46
Cofferdam Excavation	Cu. Yd.		10	10
Concrete Structures	Cu. Yd.		120.6	120.6
Concrete Superstructure	Cu. Yd.	252.8		252.8
Bridge Deck Grooving	Sq. Yd.	453		453
Concrete Encasement	Cu. Yd.		8.4	8.4
Protective Coat	Sq. Yd.	576		576
Reinforcement Bars, Epoxy Coated	Pound	59490	11600	71090
Bar Splicers	Each	278	136	414
Furnishing Steel Piles HP10x42	Foot		879	879
Driving Piles	Foot		879	879
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		40	40
Permanent Survey Markers, Type 1	Each		1	1
Asbestos Bearing Pad Removal	Each			24
Temporary Sheet Piling	Sq. Ft.		380	380
Pipe Underdrain for Structures 4"	Foot		124	124
Temporary Soil Retention System	Sq. Ft.		159	159
Porous Granular Embankment, Special	Cu. Yd.		61	61
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Mechanical Splicers	Each		66	66

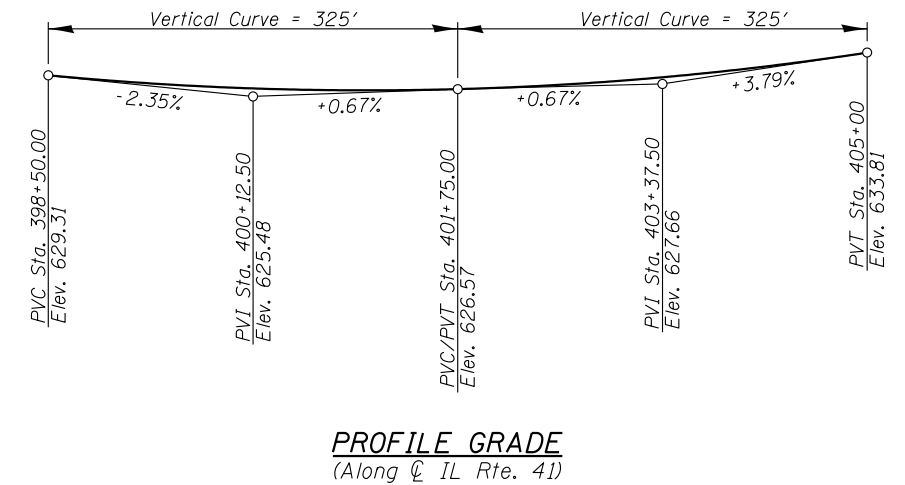


SECTION THRU ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

Note:

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



PROFILE GRADE
(Along IL Rte. 41)

WATERWAY INFORMATION

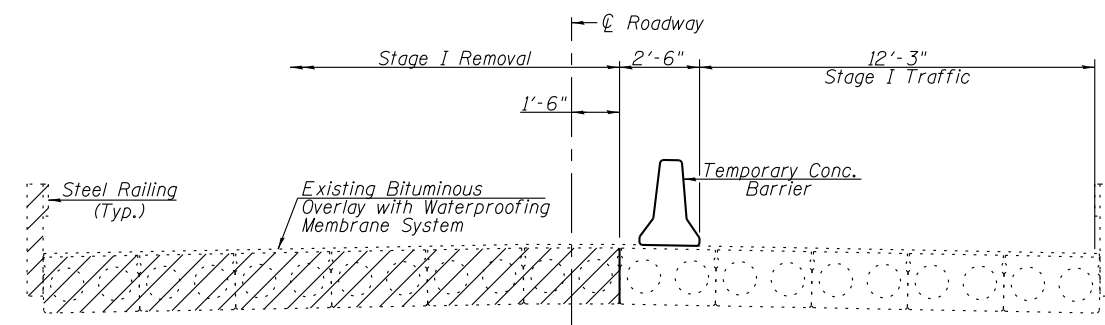
Drainage Area = 4.95 Sq. Mi. Low Grade Elev. 626.65 @ Sta. 401+88.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	1390	212	447	621.1	0.5	0.2	621.6	621.3	
Design	50	2320	252	518	622.2	1.2	0.6	623.4	622.8
Base	100	2760	269	543	622.7	1.7	0.8	624.4	623.5
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	3840	269	597	623.5	3.6	1.2	627.1	624.7

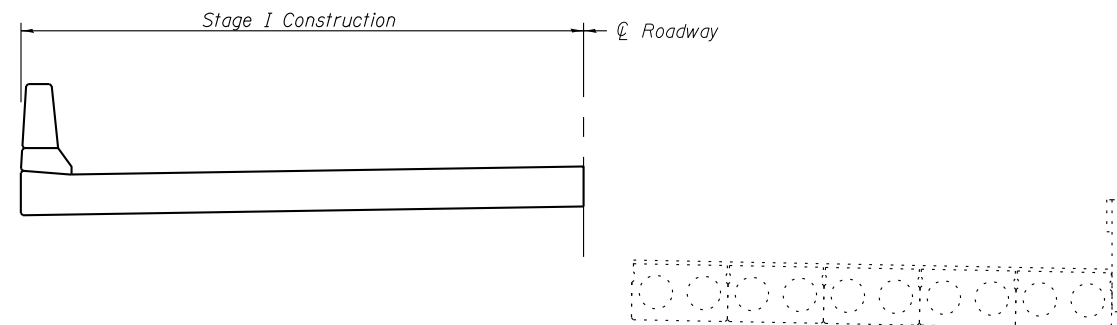
10 Yr. Velocity = 6.4 ft/sec. (Existing)
10 Yr. Velocity = 4.0 ft/sec. (Proposed)

SCOUR INFORMATION

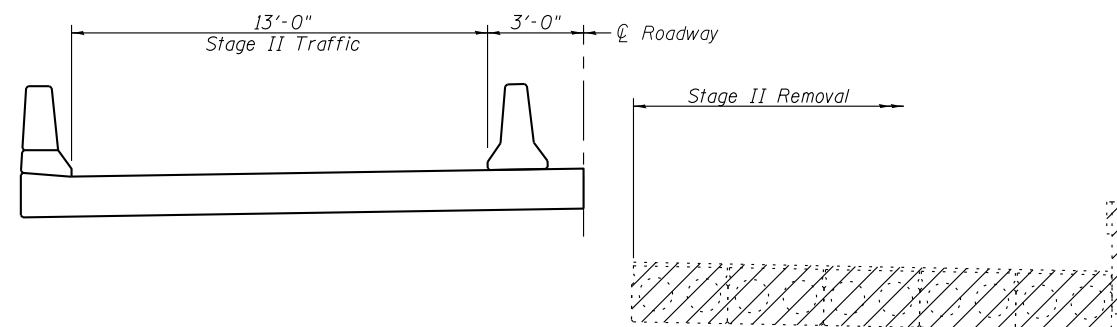
Design Scour Elevation (ft.)	North Abutment	Pier 1	Pier 2	South Abutment
	621.20	588.47	588.47	622.04



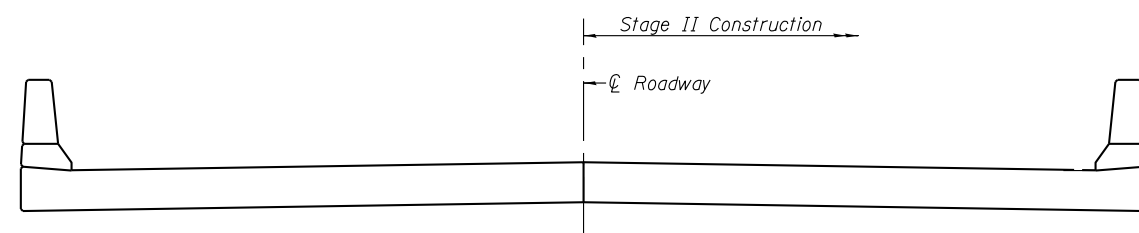
STAGE I REMOVAL
(Looking South)



STAGE I CONSTRUCTION
(Looking South)



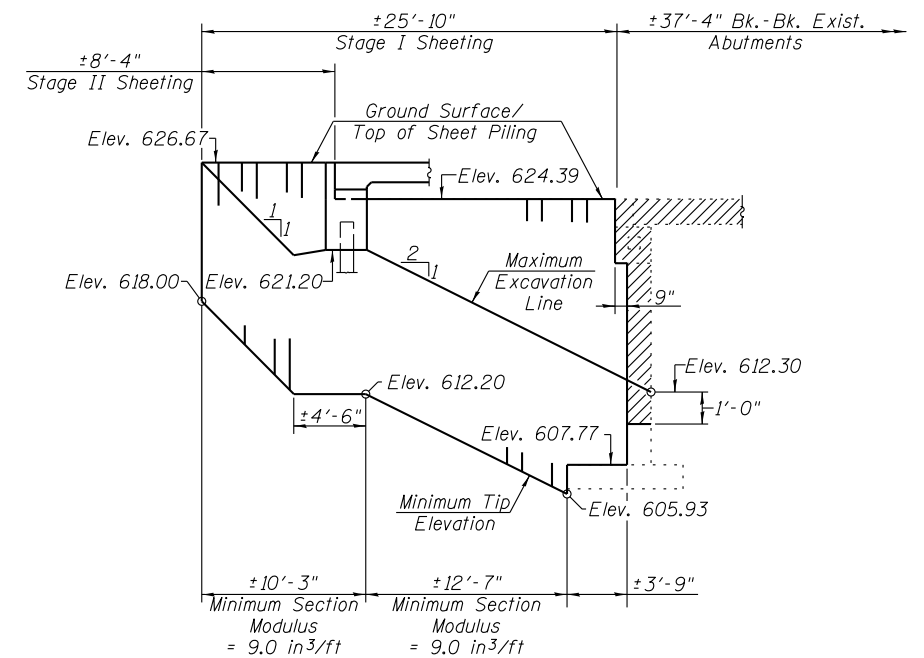
STAGE II REMOVAL
(Looking South)



STAGE II CONSTRUCTION
(Looking South)

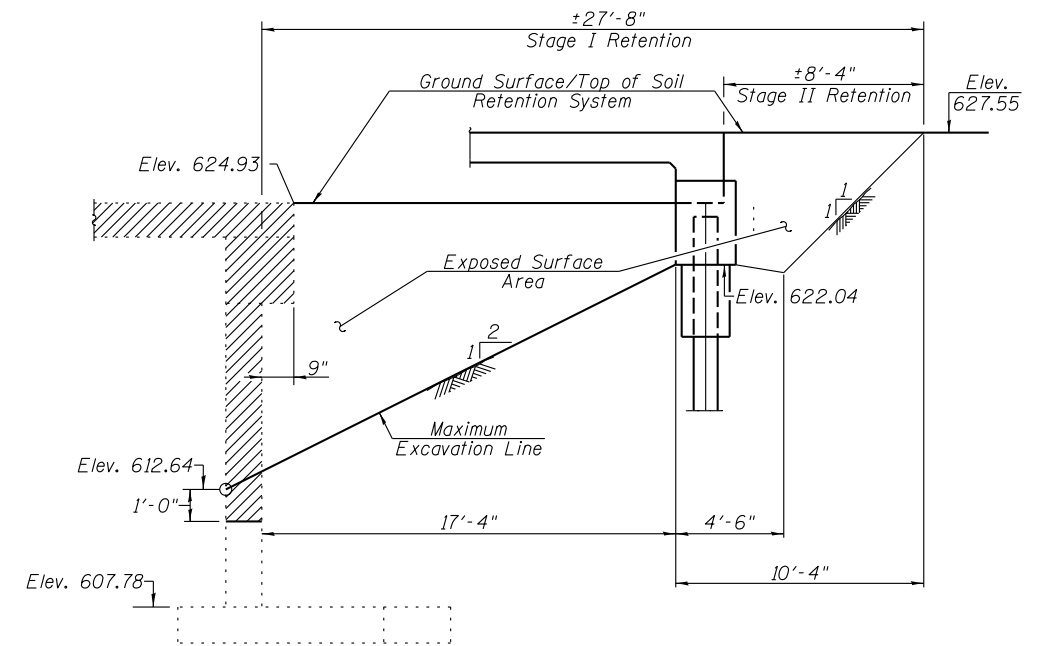
- Indicates Limits of Removal of Existing Structure

Cost of removing guardrail, steel railings and bituminous overlay with waterproofing membrane system is included in the cost of Removal of Existing Structure.
For quantity of Temporary Concrete Barrier see Roadway Plans.
For details of Temporary Concrete Barrier see Sheet 4 of 19.



TEMPORARY SHEET PILING DETAIL - NORTH ABUTMENT
(Looking East)

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.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

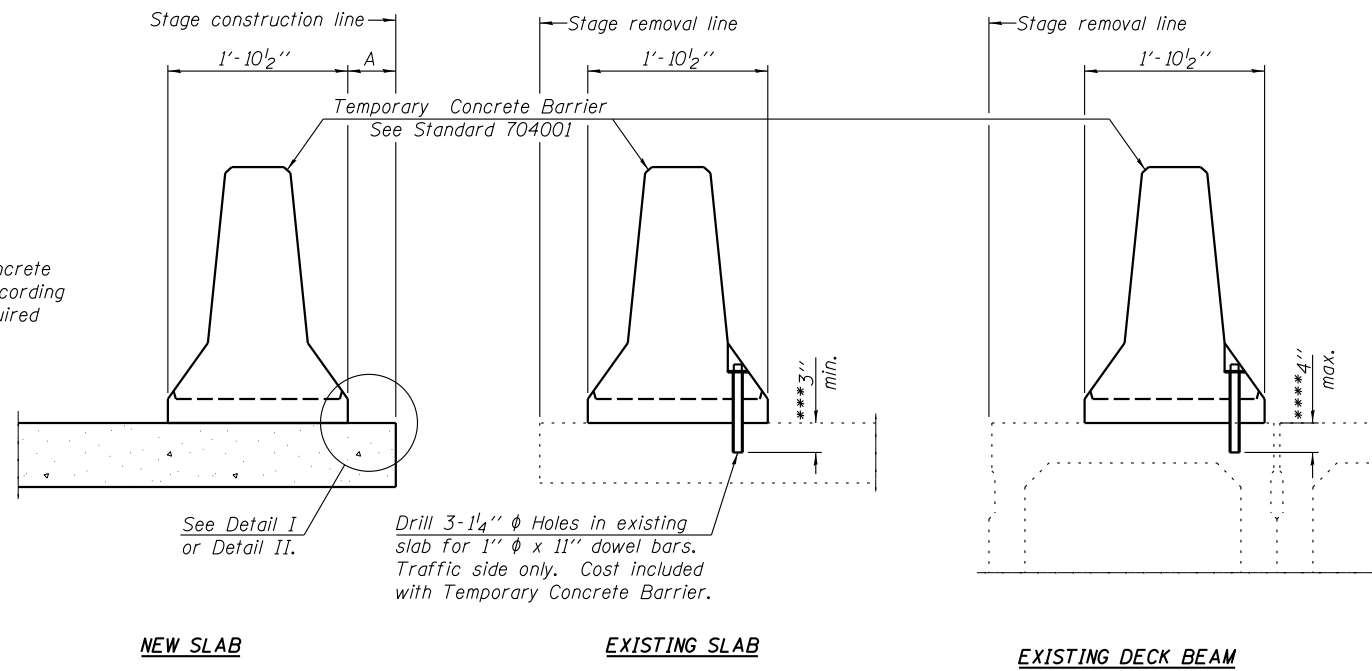


TEMPORARY SOIL RETENTION SYSTEM AT S. ABUT.
(Looking East)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 029-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -				574	12BR-1	FULTON	62	26
PLOT SCALE =		DRAWN -	REVISED -				CONTRACT NO. 68732				
PLOT DATE =		CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				
						STAGE NO. 3 OF 19 SHEETS					

When "A" is 3'-6" 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'-6".



Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{r} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{c} of each barrier panel.

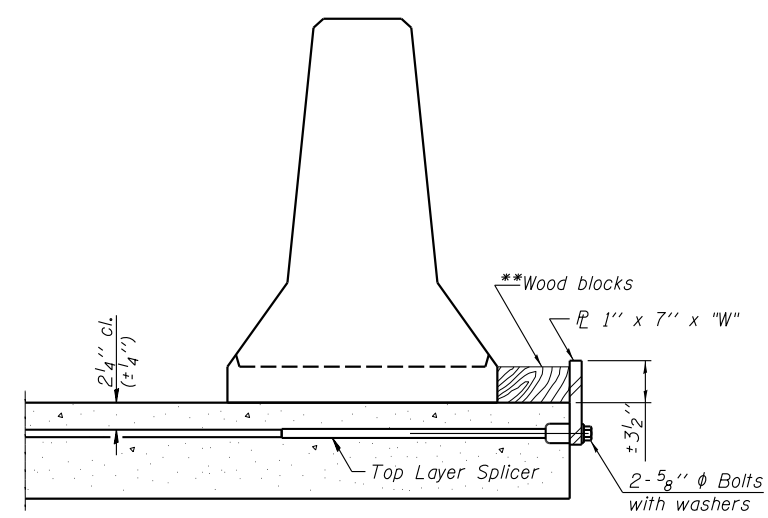
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{r} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{c} of each barrier panel.

Cost of anchorage 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.

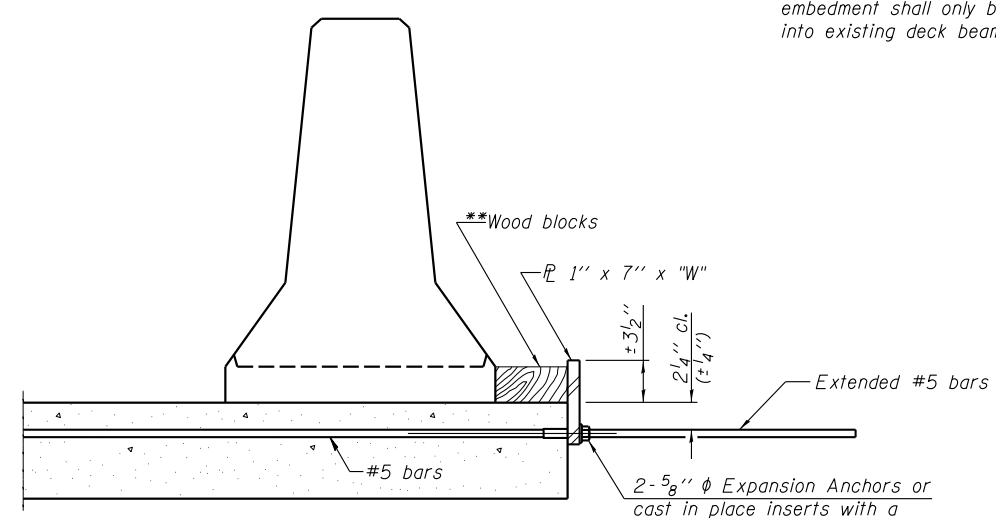
SECTIONS THRU SLAB OR DECK BEAM

*** 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.



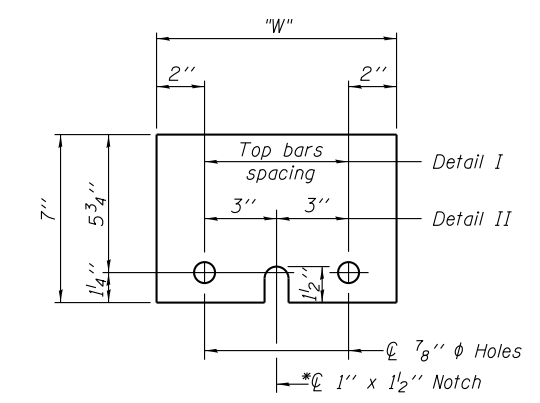
DETAIL I



DETAIL II

** 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.

"W" = Top bars spacing + 4"

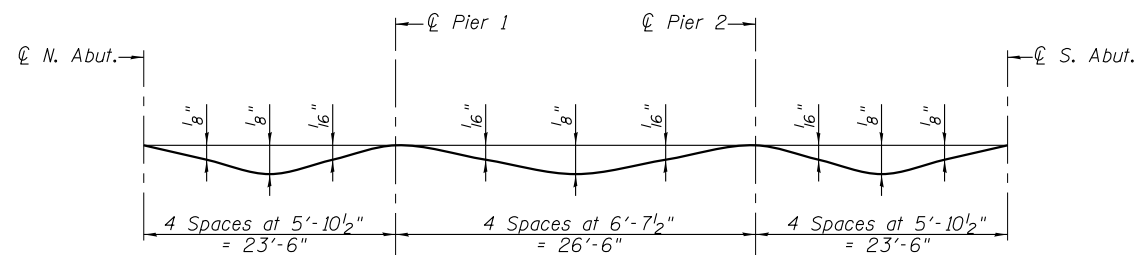


STEEL RETAINER \bar{r} 1" x 7" x "W"
* Required only with Detail II

R-27

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISD -		STRUCTURE NO. 029-0072		574	12BR-1	FULTON	62	27
		DRAWN -	REVISD -				CONTRACT NO. 68732				
		CHECKED -	REVISD -				SHEET NO. 4 OF 19 SHEETS				
							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 below.



CL ROADWAY, PROFILE GRADE & STAGE CONST. LINE

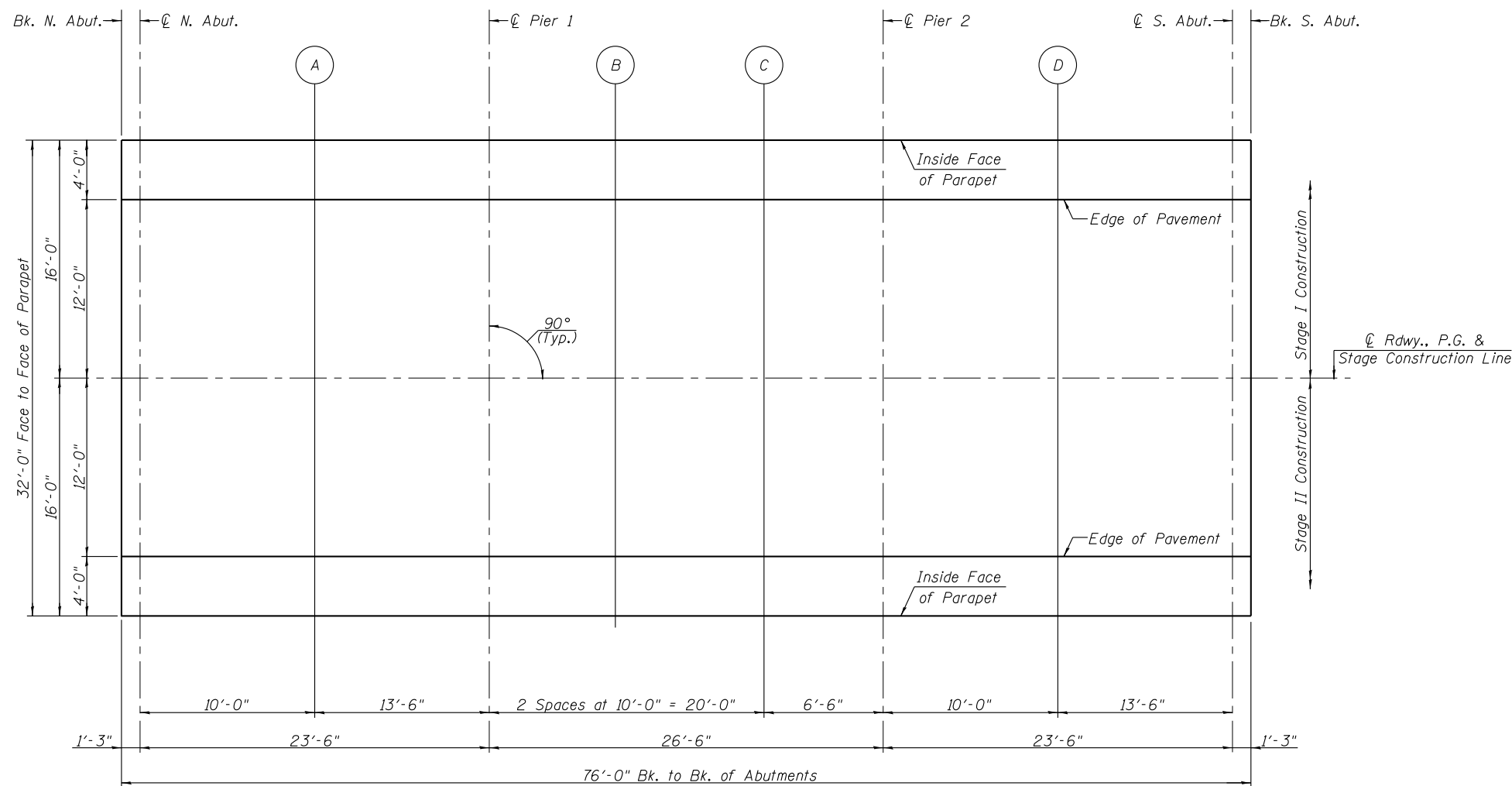
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	401+88.20	0.00	626.67	626.67
CL N. Abut.	401+89.45	0.00	626.68	626.68
A	401+99.45	0.00	626.76	626.77
CL Pier 1	402+12.95	0.00	626.89	626.89
B	402+22.95	0.00	627.00	627.01
C	402+32.95	0.00	627.12	627.12
CL Pier 2	402+39.45	0.00	627.20	627.20
D	402+49.45	0.00	627.33	627.34
CL S. Abut.	402+62.95	0.00	627.53	627.53
Bk. S. Abut.	402+64.20	0.00	627.55	627.55

EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	401+88.20	±12.00	626.48	626.48
CL N. Abut.	401+89.45	±12.00	626.49	626.49
A	401+99.45	±12.00	626.58	626.59
CL Pier 1	402+12.95	±12.00	626.71	626.71
B	402+22.95	±12.00	626.81	626.82
C	402+32.95	±12.00	626.93	626.93
CL Pier 2	402+39.45	±12.00	627.01	627.01
D	402+49.45	±12.00	627.15	627.16
CL S. Abut.	402+62.95	±12.00	627.34	627.34
Bk. S. Abut.	402+64.20	±12.00	627.36	627.36

INSIDE FACE OF PARAPETS

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	401+88.20	±16.00	626.40	626.40
CL N. Abut.	401+89.45	±16.00	626.41	626.41
A	401+99.45	±16.00	626.49	626.50
CL Pier 1	402+12.95	±16.00	626.62	626.62
B	402+22.95	±16.00	626.73	626.74
C	402+32.95	±16.00	626.85	626.85
CL Pier 2	402+39.45	±16.00	626.93	626.93
D	402+49.45	±16.00	627.06	627.07
CL S. Abut.	402+62.95	±16.00	627.26	627.26
Bk. S. Abut.	402+64.20	±16.00	627.28	627.28



EAST EDGE OF SHOULDER

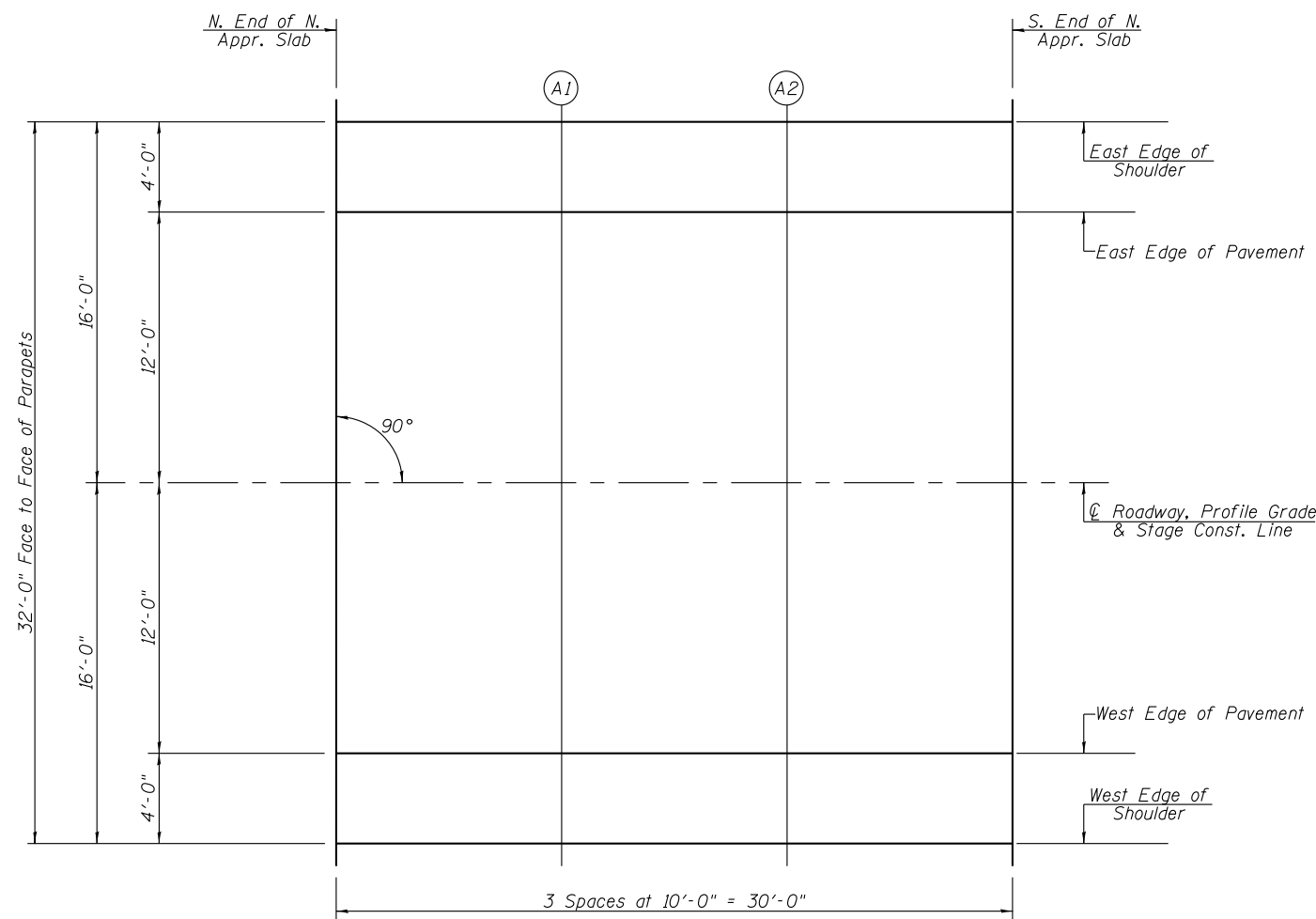
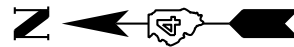
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	401+58.20	-16.00	626.21
A1	401+68.20	-16.00	626.27
A2	401+78.20	-16.00	626.32
S. End of N. Appr. Slab	401+88.20	-16.00	626.40

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	401+58.20	-12.00	626.29
A1	401+68.20	-12.00	626.35
A2	401+78.20	-12.00	626.40
S. End of N. Appr. Slab	401+88.20	-12.00	626.48

☉ ROADWAY, PROFILE GRADE & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	401+58.20	0.00	626.48
A1	401+68.20	0.00	626.54
A2	401+78.20	0.00	626.59
S. End of N. Appr. Slab	401+88.20	0.00	626.67



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	401+58.20	12.00	626.29
A1	401+68.20	12.00	626.35
A2	401+78.20	12.00	626.40
S. End of N. Appr. Slab	401+88.20	12.00	626.48

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	401+58.20	16.00	626.21
A1	401+68.20	16.00	626.27
A2	401+78.20	16.00	626.32
S. End of N. Appr. Slab	401+88.20	16.00	626.40

EAST EDGE OF SHOULDER

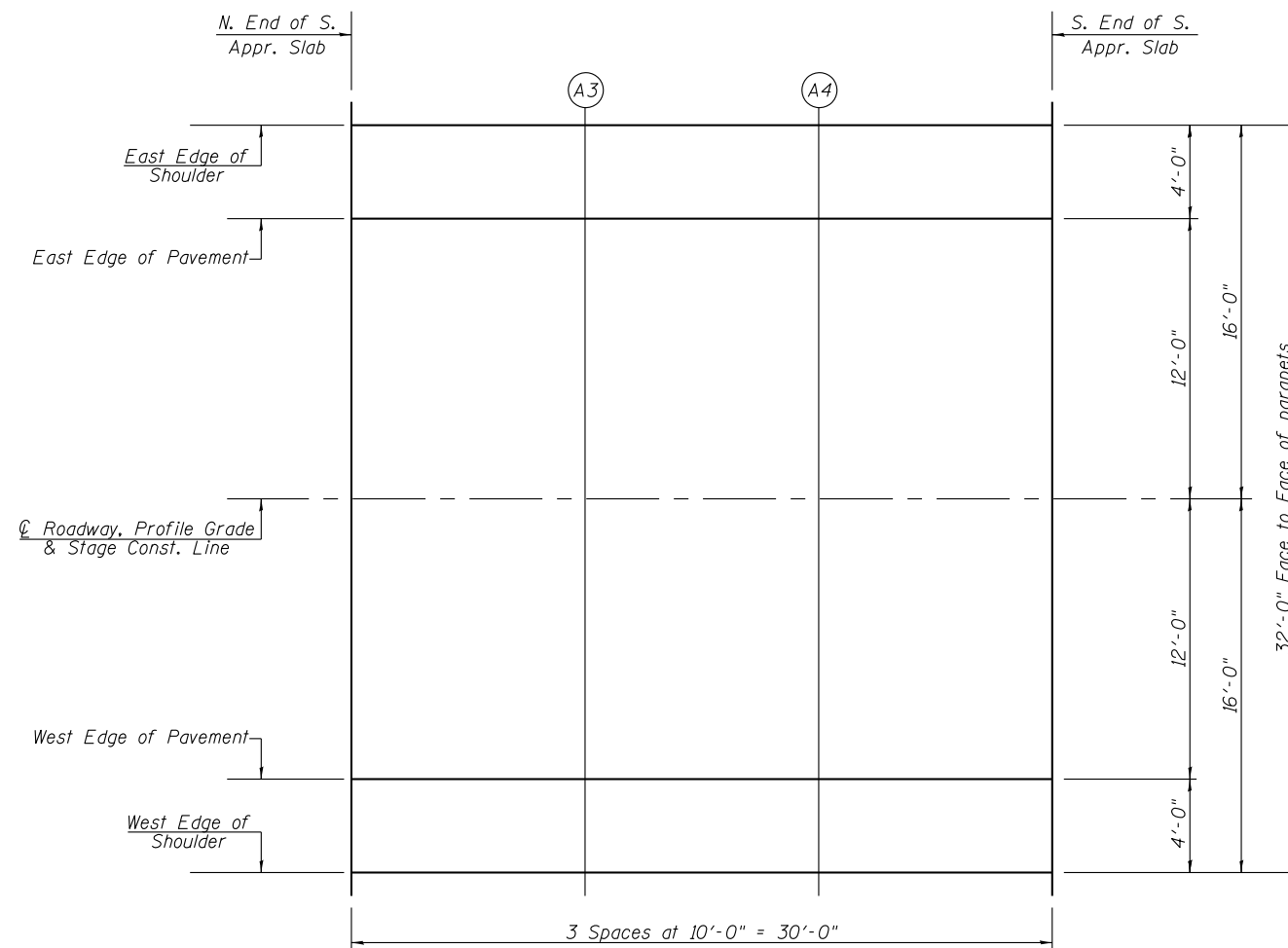
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	402+64.20	-16.00	627.28
A3	402+74.20	-16.00	627.44
A4	402+84.20	-16.00	627.60
S. End of S. Appr. Slab	402+94.20	-16.00	627.78

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	402+64.20	-12.00	627.36
A3	402+74.20	-12.00	627.52
A4	402+84.20	-12.00	627.69
S. End of S. Appr. Slab	402+94.20	-12.00	627.86

☉ ROADWAY, PROFILE GRADE & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	402+64.20	0.00	627.55
A3	402+74.20	0.00	627.71
A4	402+84.20	0.00	627.87
S. End of S. Appr. Slab	402+94.20	0.00	628.05



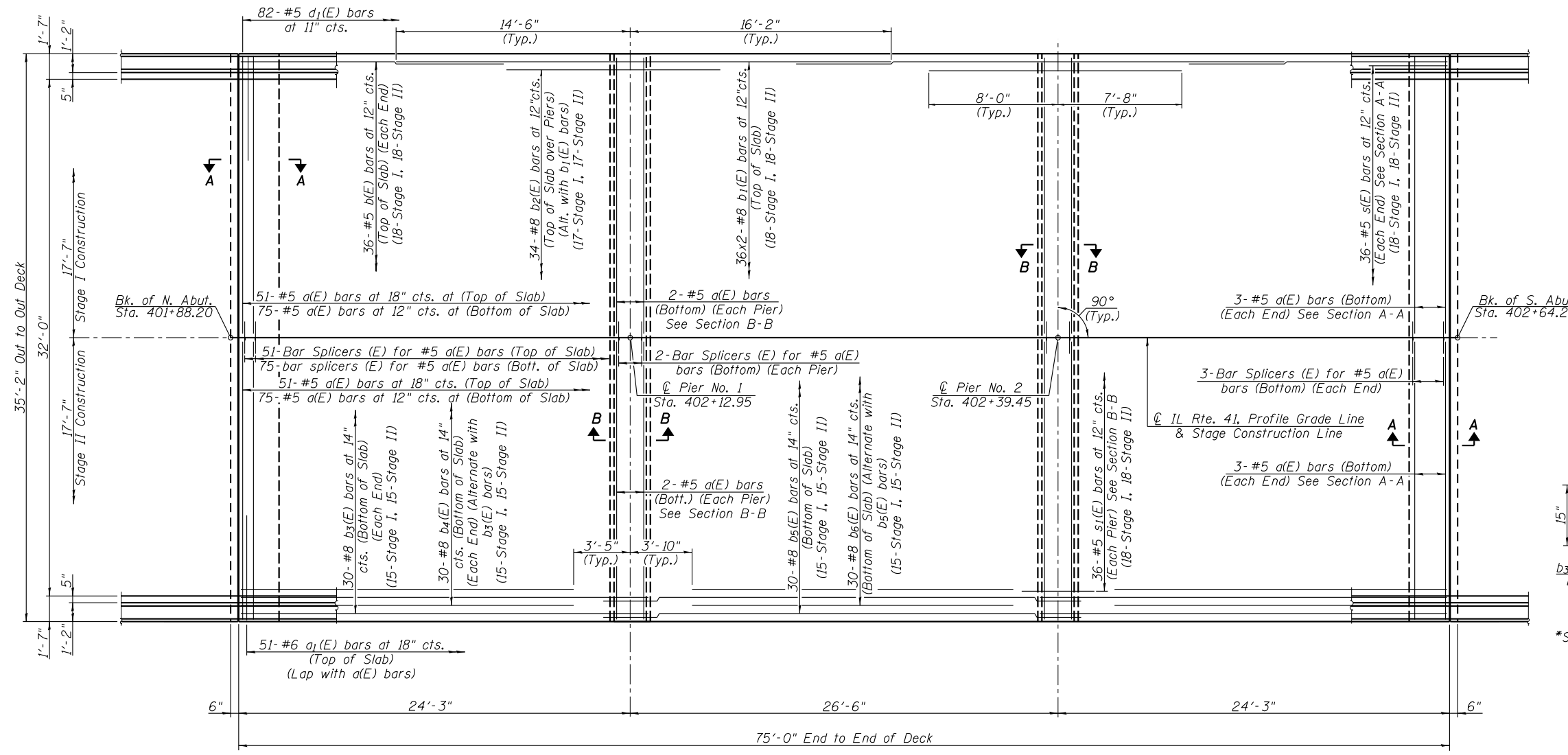
PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	402+64.20	12.00	627.36
A3	402+74.20	12.00	627.52
A4	402+84.20	12.00	627.69
S. End of S. Appr. Slab	402+94.20	12.00	627.86

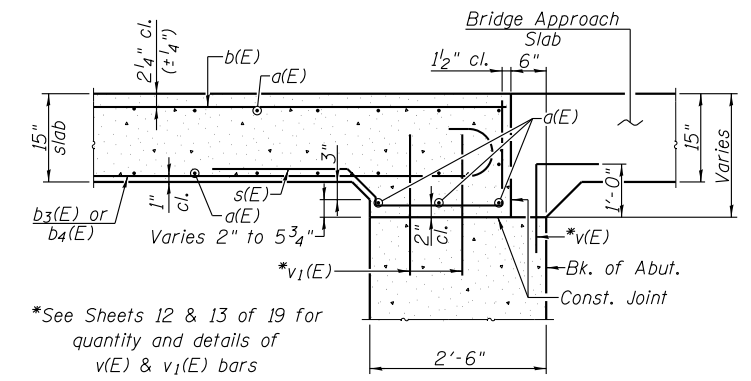
WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	402+64.20	16.00	627.28
A3	402+74.20	16.00	627.44
A4	402+84.20	16.00	627.60
S. End of S. Appr. Slab	402+94.20	16.00	627.78



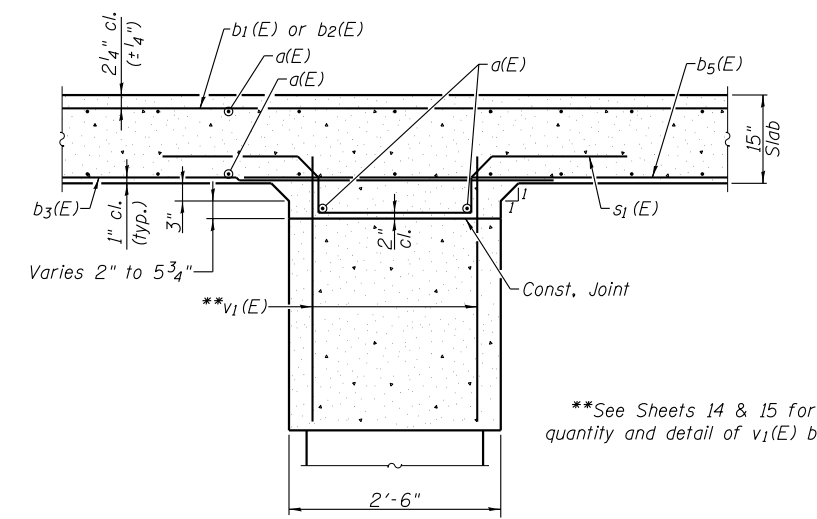
PLAN

MIN. BAR LAP
 #5 = 2'-10"
 #8 = 5'-10"



SECTION A-A

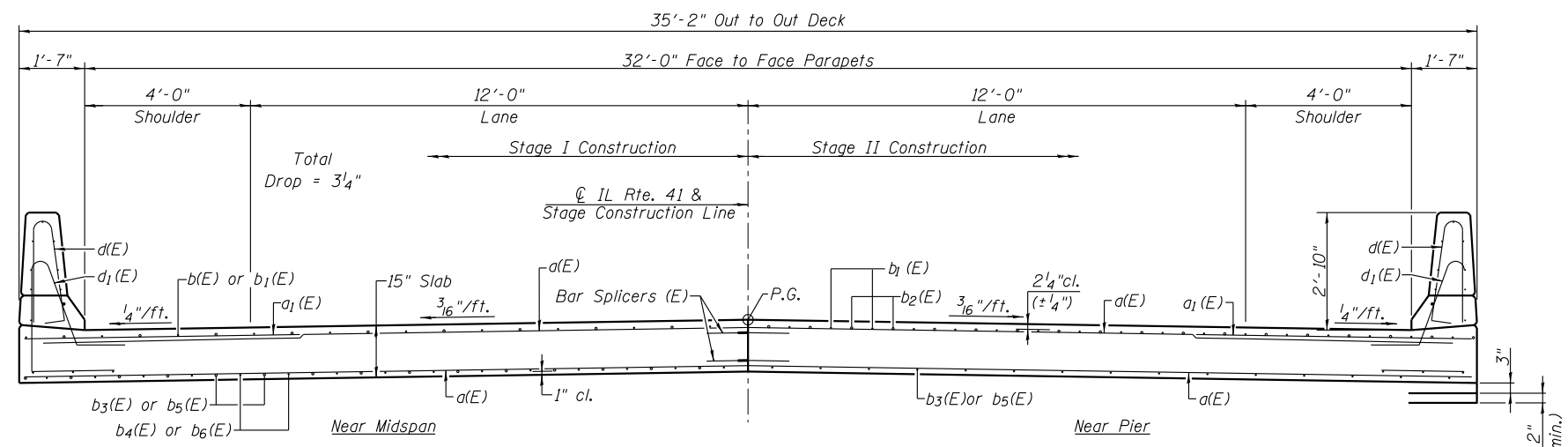
*See Sheets 12 & 13 of 19 for quantity and details of v(E) & v1(E) bars



SECTION B-B

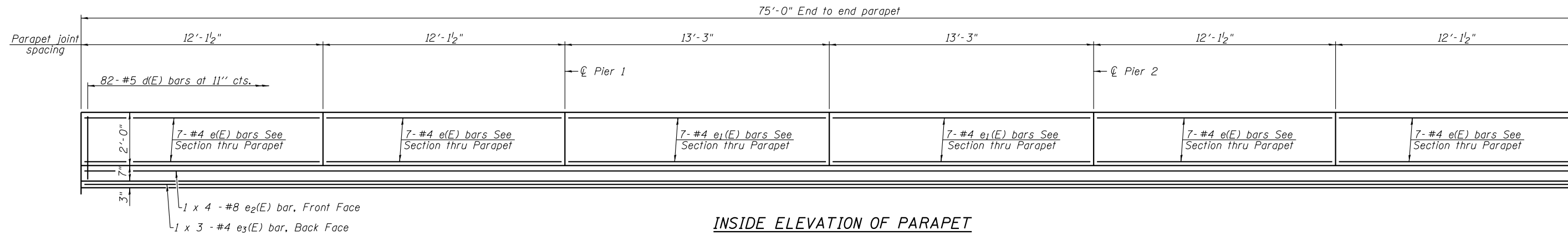
**See Sheets 14 & 15 for quantity and detail of v1(E) bar.

Notes:
 See Sheet 9 of 19 for superstructure details, parapet reinforcement and Bill of Material.
 Bars indicated thus 36 x 2-#8 etc. indicates 36 lines of bars with 2 lengths per line.
 See Sheet 17 of 19 for Bar Splicer details.

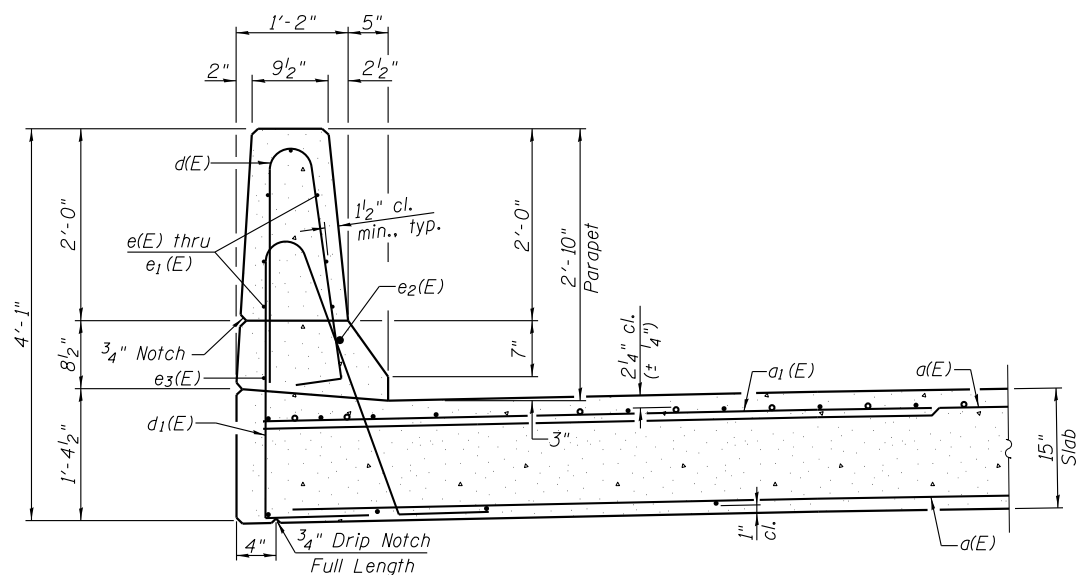


CROSS SECTION
 (Looking South)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SUPERSTRUCTURE STRUCTURE NO. 029-0072 SHEET NO. 8 OF 19 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			574	12BR-1	FULTON	62	31	
		PLOT SCALE =	REVISED -			CONTRACT NO. 68732					
		PLOT DATE =	REVISED -			ILLINOIS FED. AID PROJECT					



INSIDE ELEVATION OF PARAPET



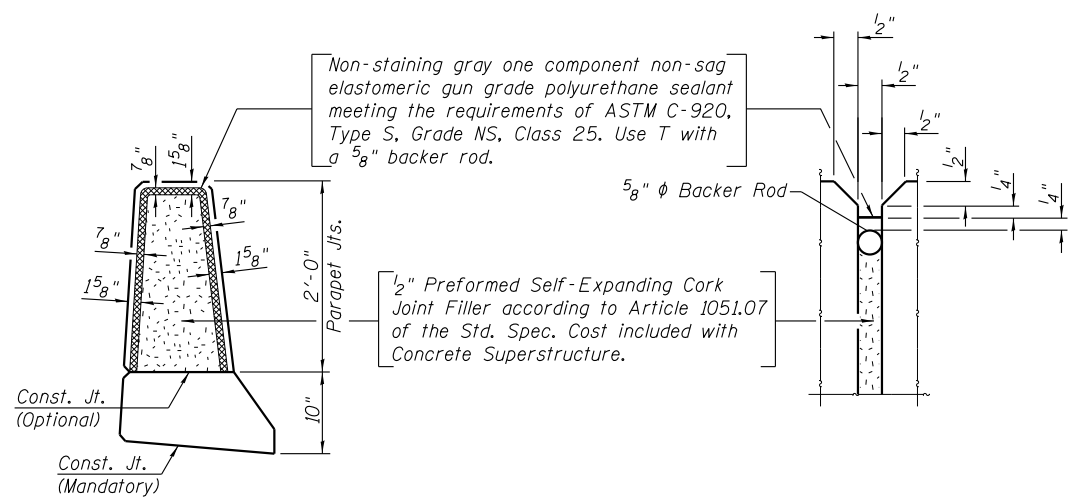
SECTION THRU PARAPET

MIN BAR LAP
(Parapet)
#4 = 2'-0"
#8 = 5'-2"

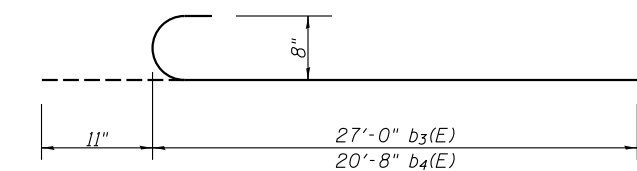
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	272	#5	17'-3"	—
a1(E)	102	#6	6'-6"	—
b(E)	72	#5	15'-0"	—
b1(E)	72	#8	30'-8"	—
b2(E)	68	#8	15'-8"	—
b3(E)	60	#8	27'-11"	U
b4(E)	60	#8	21'-7"	U
b5(E)	30	#8	32'-4"	—
b6(E)	30	#8	18'-10"	—
d(E)	164	#5	5'-7"	⌋
d1(E)	164	#5	7'-11"	⌋
e(E)	56	#4	11'-10"	—
e1(E)	28	#4	12'-11"	—
e2(E)	8	#8	23'-10"	—
e3(E)	6	#4	26'-11"	—
s(E)	72	#5	5'-10"	~
s1(E)	72	#5	8'-1"	~
Reinforcement Bars, Epoxy Coated		Lbs.	32440	
Concrete Superstructure		Cu. Yds.	146.4	

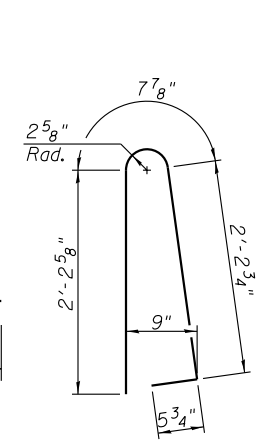
Bars indicated thus 1 x 3 - #7 etc. indicates 1 line of bars with 3 lengths per line.



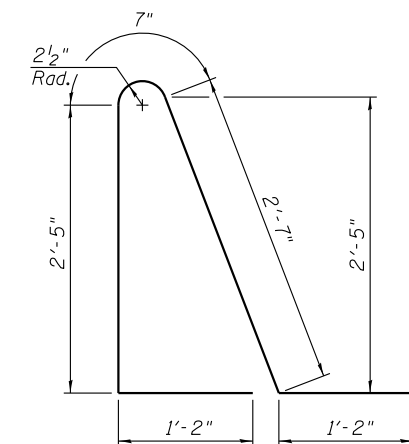
PARAPET JOINT DETAILS



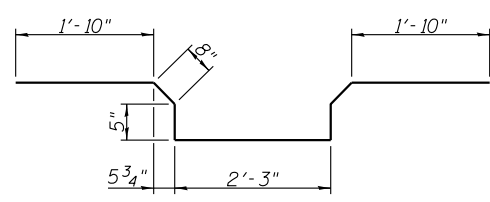
BAR b3(E) & b4(E)



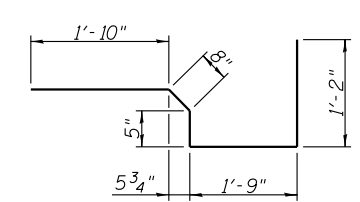
BAR d(E)



BAR d1(E)



BAR s1(E)



BAR s(E)

PI-I-D

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -
		CHECKED -	REVISIONS -
		DRAWN -	REVISIONS -
		CHECKED -	REVISIONS -



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

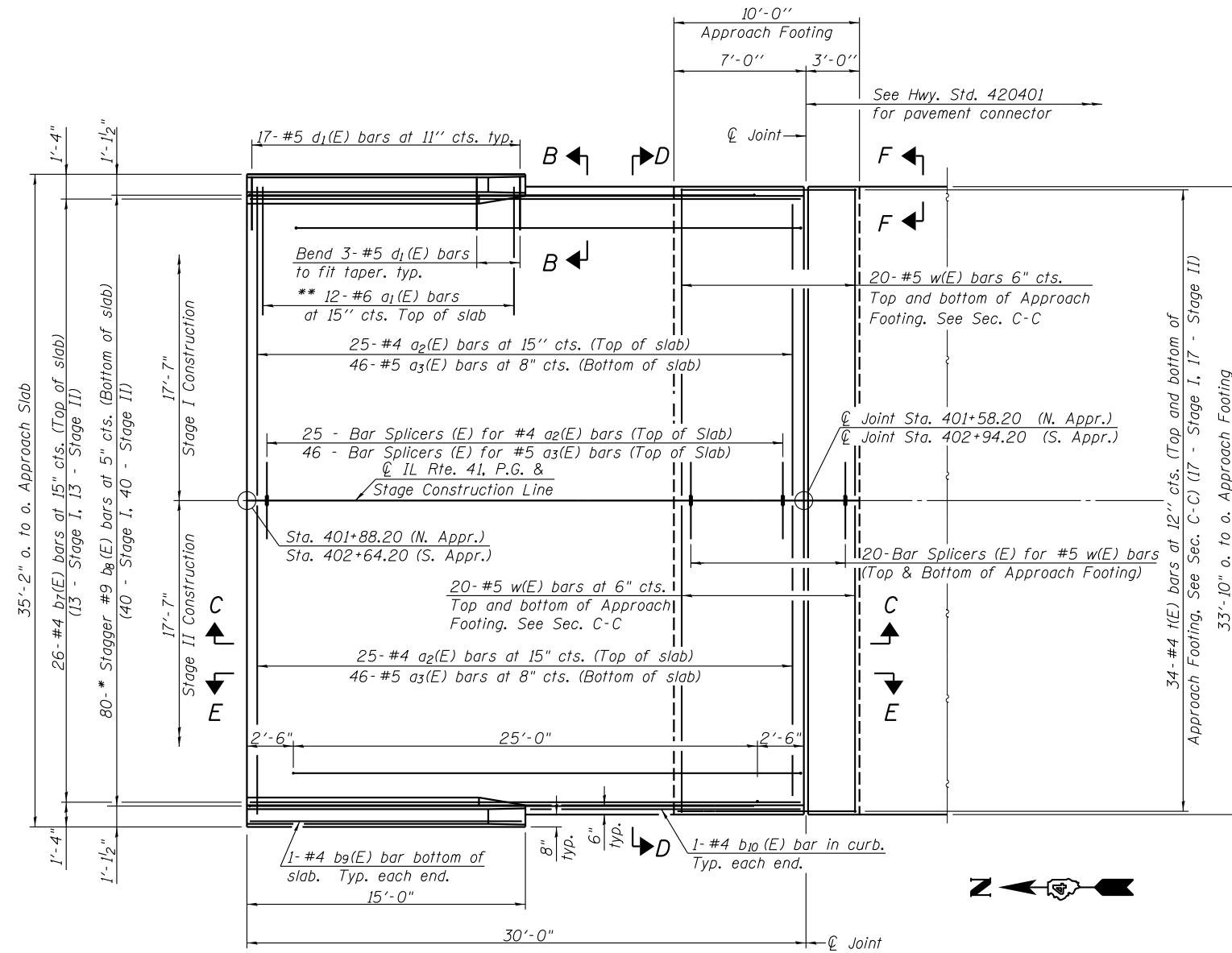
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 029-0072**

SHEET NO. 9 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
547	12BR-1	FULTON	62	32
CONTRACT NO. 68732				

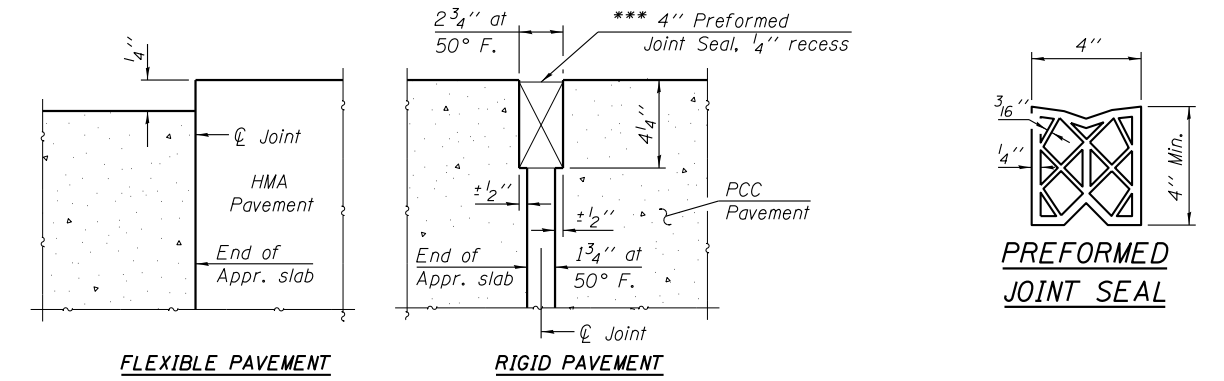
ILLINOIS FED. AID PROJECT

Notes:
See sheet 11 of 19 for Sections C-C & D-D and View E-E.
a₂(E) and a₃(E) bar spacings measured along \varnothing Rdwy.



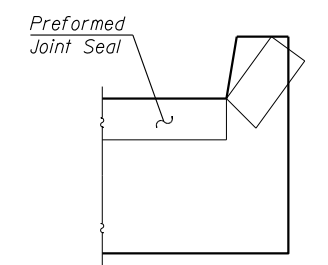
PLAN - SOUTH APPROACH
(North Approach Similar)

* Tilt #9 b₈(E) bars as required to maintain clearance.
** Space between a₂(E) bars, typ. each parapet

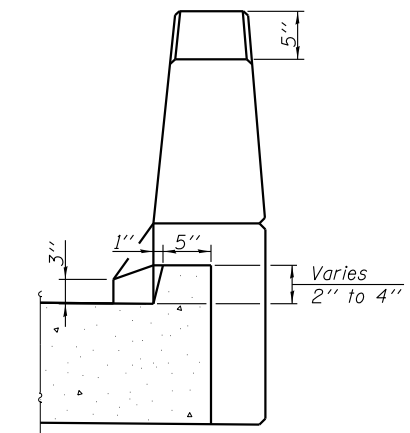


DETAIL A

*** Cost included with Concrete Superstructure.



VIEW F-F
Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



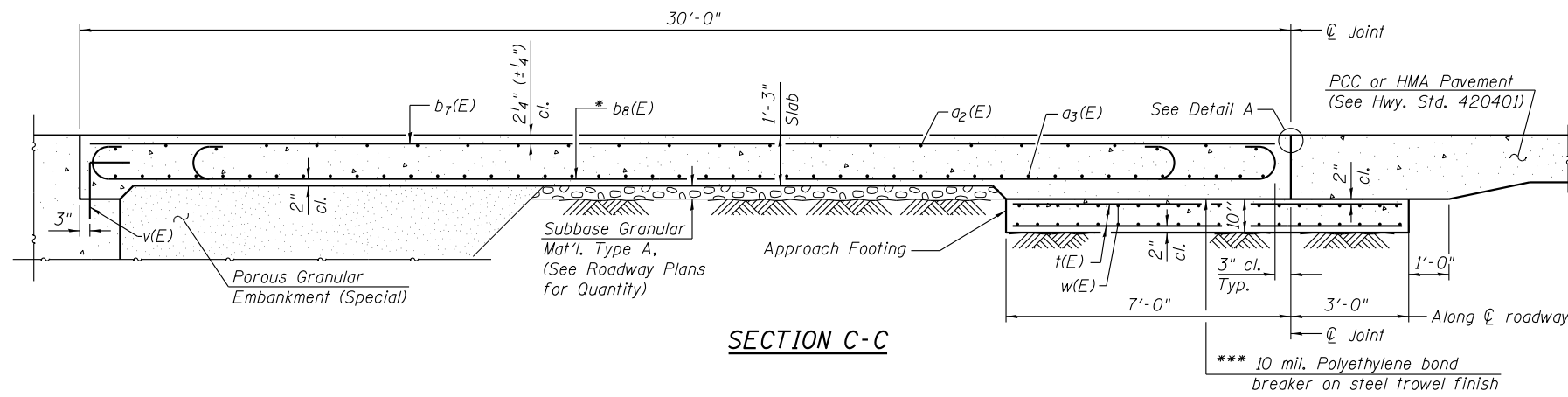
VIEW B-B

BA-0 7-1-10

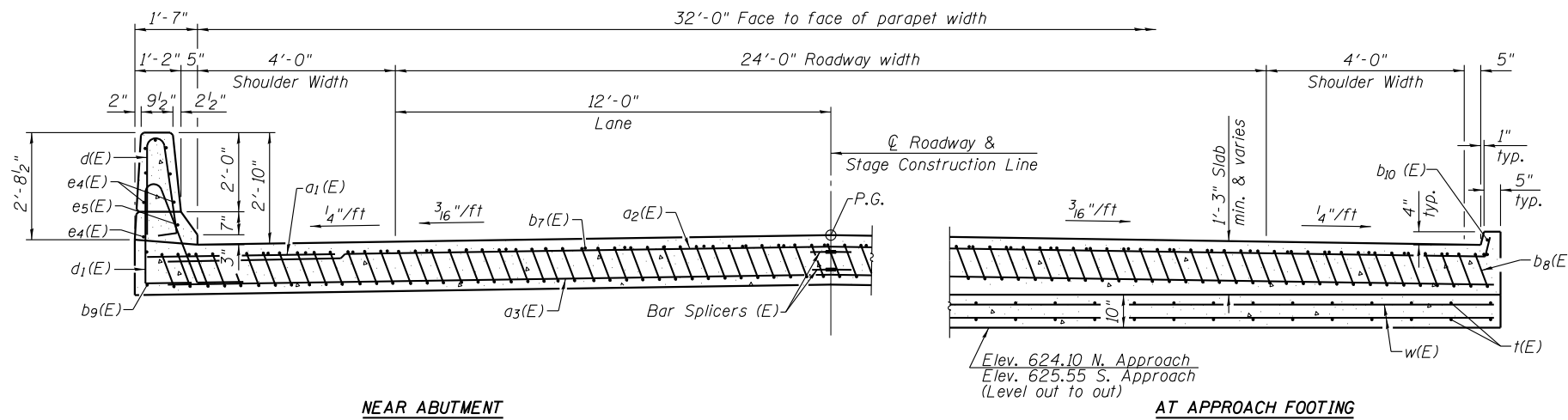
(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 029-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -	REVISED -			574	12BR-1	FULTON	62	33
PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 10 OF 19 SHEETS		CONTRACT NO. 68732				
						ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 10 of 19 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 12 & 13 of 19.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For Bar Splicer details, see sheet 17 of 19.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 19.
 For additional parapet details, see sheet 9 of 19.



SECTION C-C

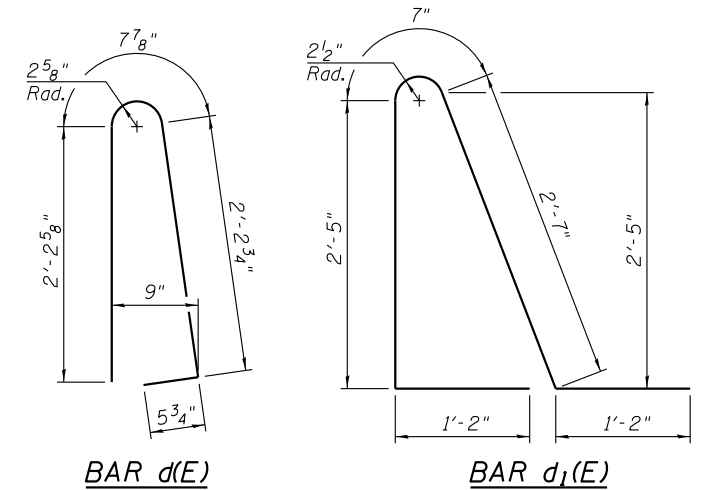


NEAR ABUTMENT

SECTION D-D

(See Plan for dimensions not shown)

AT APPROACH FOOTING

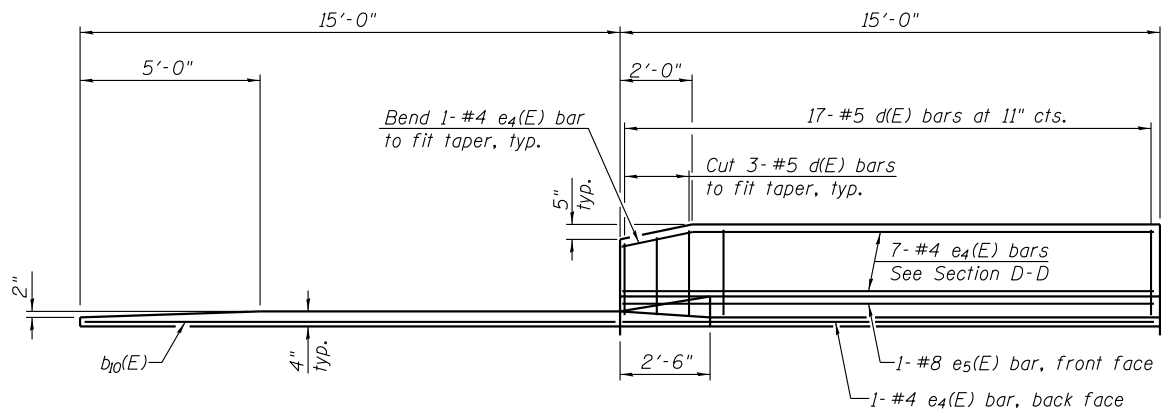


BAR d(E)

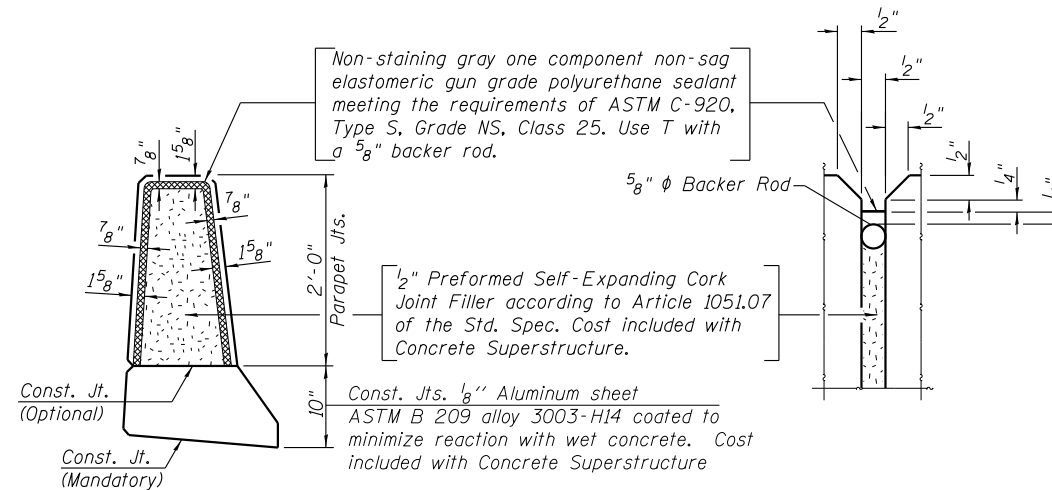
BAR d1(E)

* Tilt #9 b8(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



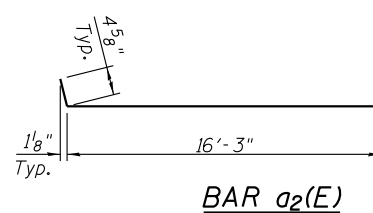
VIEW E-E



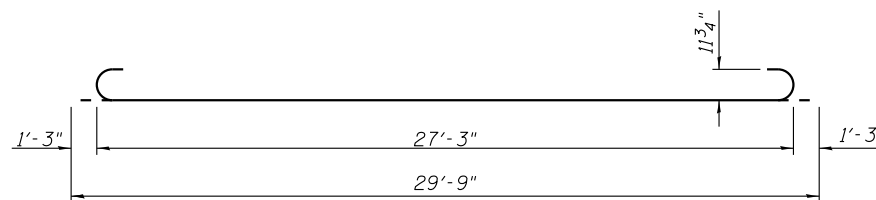
PARAPET JOINT DETAILS

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	48	#6	6'-6"	—
a2(E)	100	#4	16'-8"	—
a3(E)	184	#5	16'-4"	—
b7(E)	52	#4	29'-8"	—
b8(E)	160	#9	29'-9"	—
b9(E)	4	#4	14'-8"	—
b10(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	—
d1(E)	68	#5	7'-11"	—
e4(E)	32	#4	14'-8"	—
e5(E)	4	#8	14'-8"	—
t(E)	136	#4	9'-8"	—
w(E)	160	#5	16'-4"	—
Concrete Superstructure		Cu. Yd.	106.4	
Concrete Structures		Cu. Yd.	20.9	
Reinforcement Bars, Epoxy Coated		Pound	27050	



BAR a2(E)



BAR b8(E)

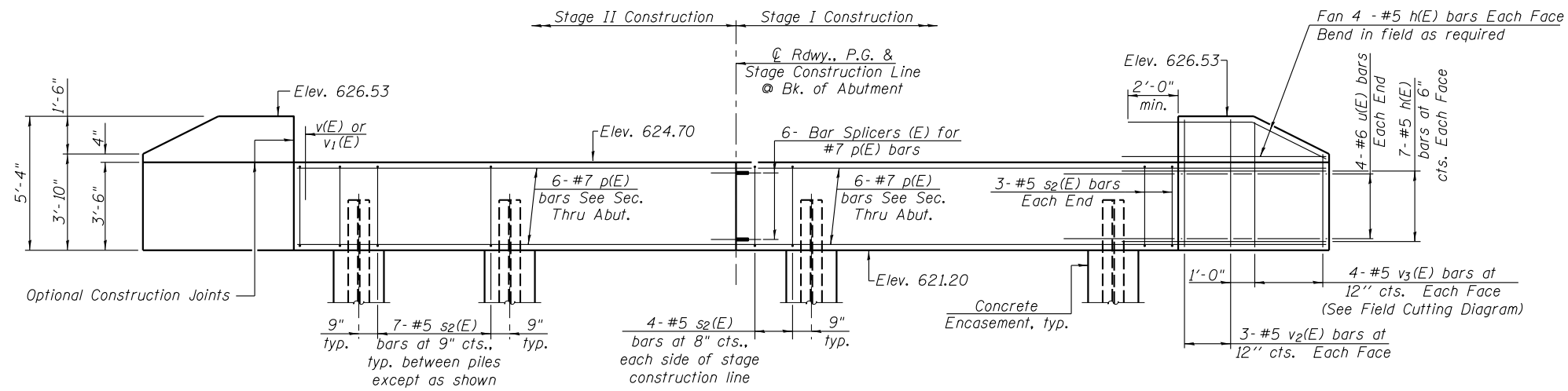
BA-0

7-1-10

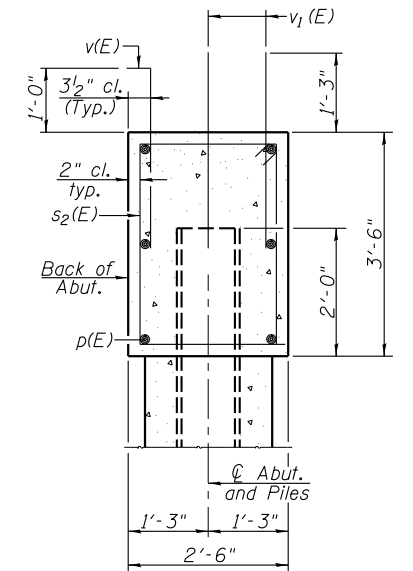
(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO 029-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISIONS -			574	12BR-1	FULTON	62	34
		PLOT SCALE =	REVISIONS -			CONTRACT NO. 68732				
		PLOT DATE =	REVISIONS -			SHEET NO. 11 OF 19 SHEETS				

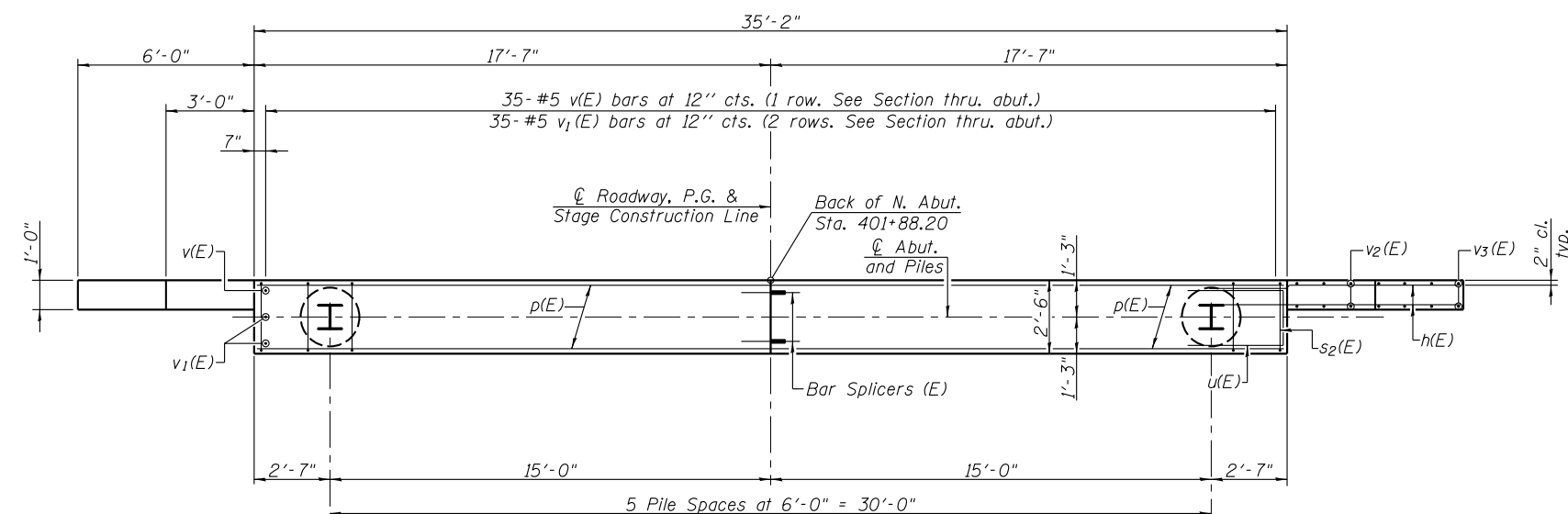
ILLINOIS FED. AID PROJECT



ELEVATION
(Looking North)



SEC. THRU ABUT.

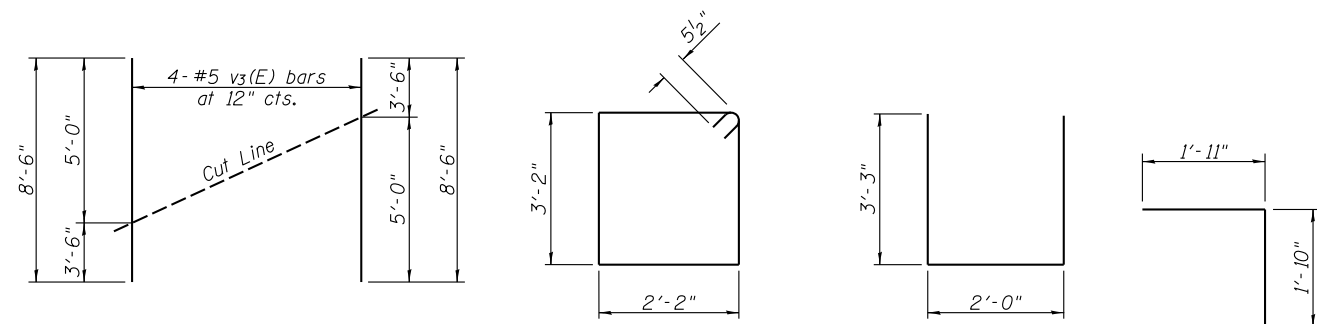


PLAN



PILE DATA

Type: HP 10X42
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 168 kips
 Est. Length: 37 ft.
 No. Production Piles: 5
 No. Test Piles: 1



FIELD CUTTING DIAGRAM

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

BAR s2(E)

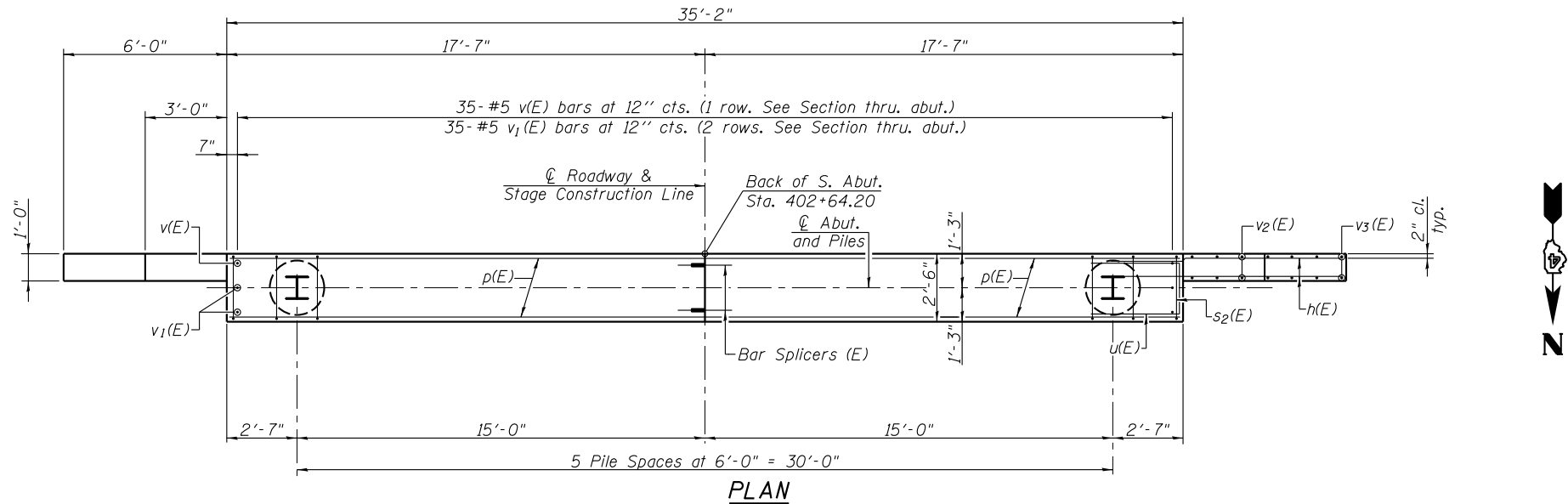
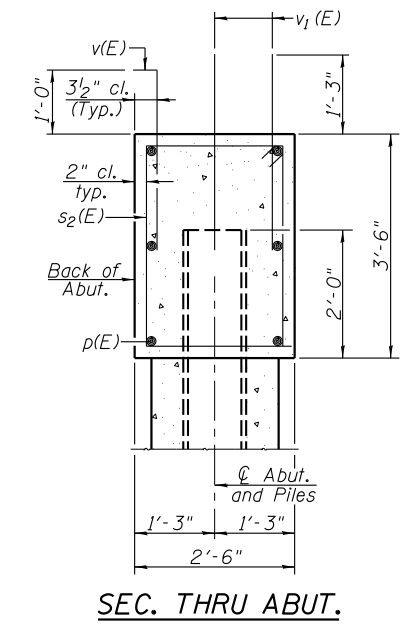
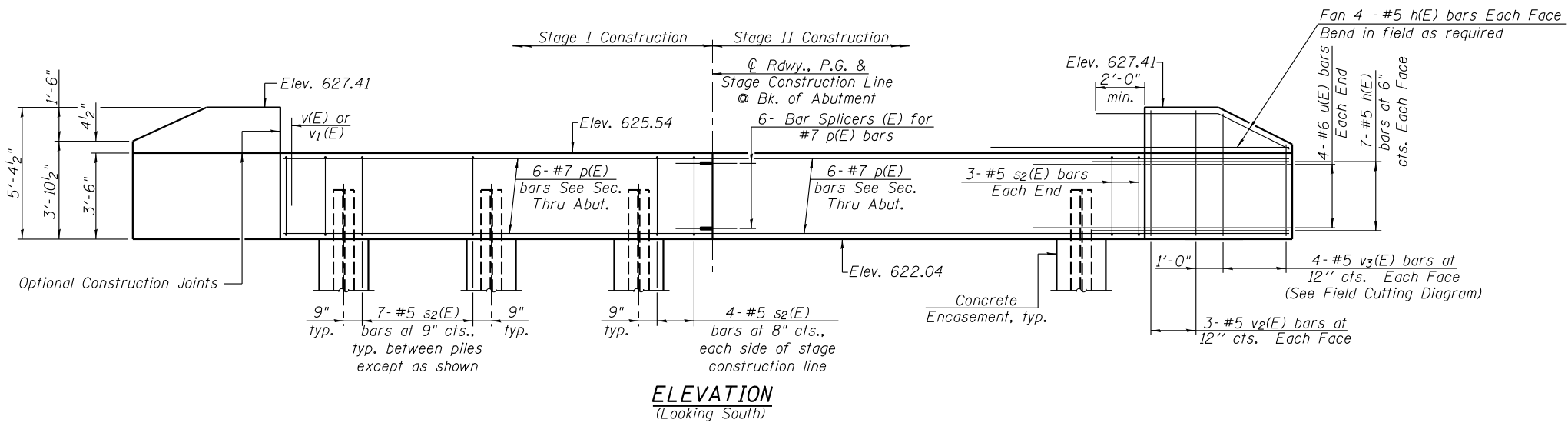
BAR u(E)

BAR v(E)

BILL OF MATERIAL

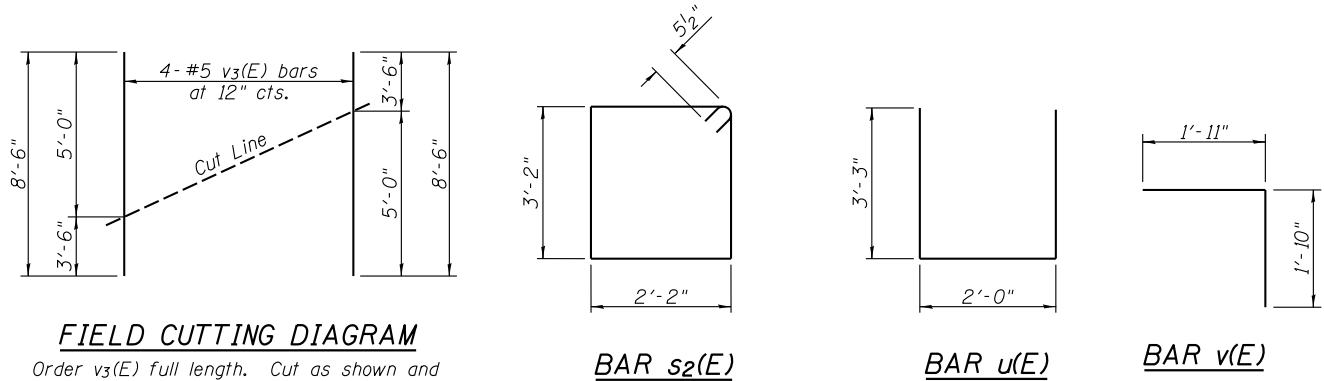
Bar	No.	Size	Length	Shape
h(E)	44	#5	8'-6"	—
p(E)	12	#7	17'-3"	—
s2(E)	42	#5	11'-7"	□
u(E)	8	#6	8'-6"	—
v(E)	35	#5	3'-9"	—
v1(E)	70	#5	3'-4"	—
v2(E)	12	#5	5'-0"	—
v3(E)	8	#5	8'-6"	—
Structure Excavation			Cu. Yd.	23
Concrete Structures			Cu. Yd.	13.6
Reinforcement Bars, Epoxy Coated			Pound	1940
Furnishing Steel Piles HP10x42			Foot	185
Driving Piles			Foot	185
Test Pile Steel HP10x42			Each	1
Concrete Encasement			Cu. Yd.	2.1

For details of Bar Splicers, see sheet 17 of 19.
 For details of piles and Concrete Encasement, see sheet 16 of 19.



PILE DATA

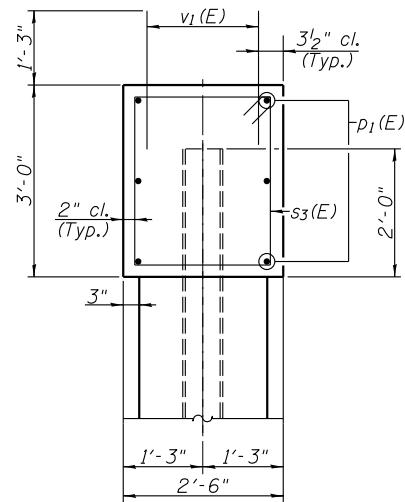
Type: HP 10X42
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 168 kips
 Est. Length: 44 ft.
 No. Production Piles: 5
 No. Test Piles: 1



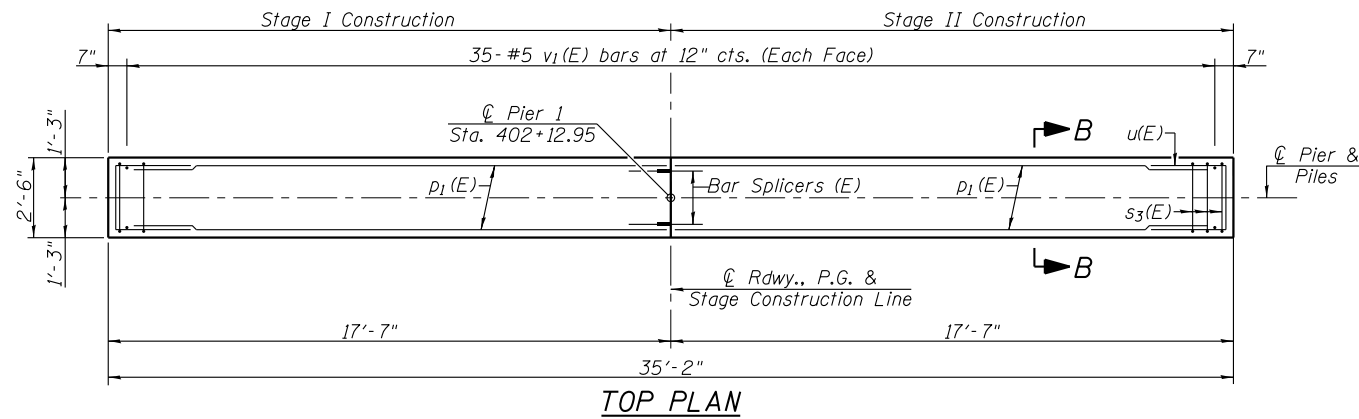
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	44	#5	8'-6"	—
p(E)	12	#7	17'-3"	—
s2(E)	42	#5	11'-7"	□
u(E)	8	#6	8'-6"	□
v(E)	35	#5	3'-9"	┌
v1(E)	70	#5	3'-4"	—
v2(E)	12	#5	5'-0"	—
v3(E)	8	#5	8'-6"	—
Structure Excavation			Cu. Yd.	23
Concrete Structures			Cu. Yd.	13.6
Reinforcement Bars, Epoxy Coated			Pound	1940
Furnishing Steel Piles HP10x42			Foot	220
Driving Piles			Foot	220
Test Pile Steel HP10x42			Each	1
Concrete Encasement			Cu. Yd.	2.1

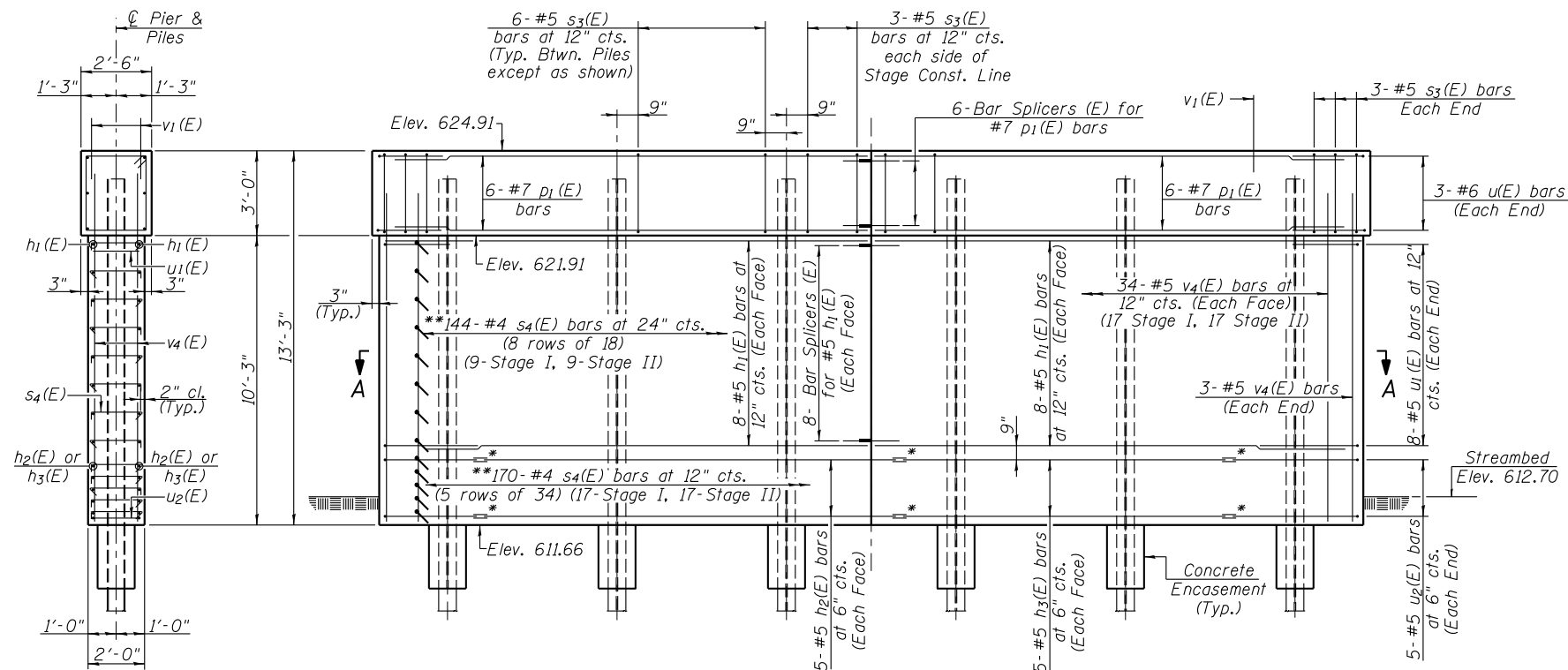
For details of Bar Splicers, see sheet 17 of 19.
 For details of piles and Concrete Encasement, see sheet 16 of 19.



SECTION B-B

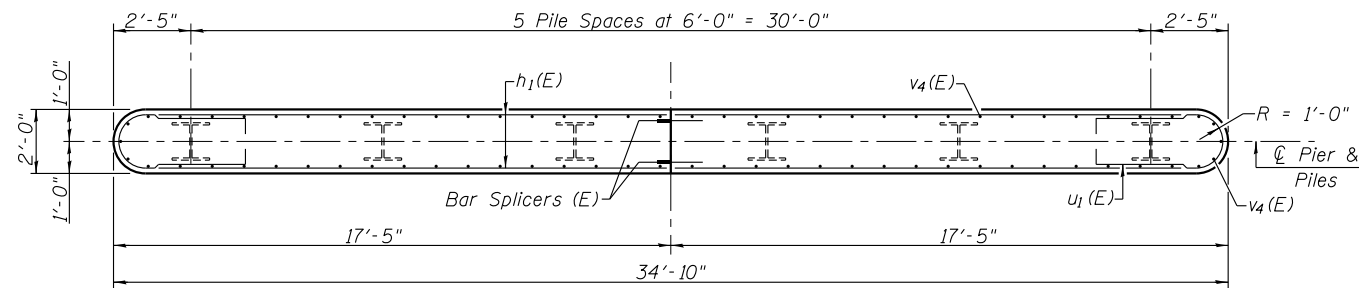


TOP PLAN

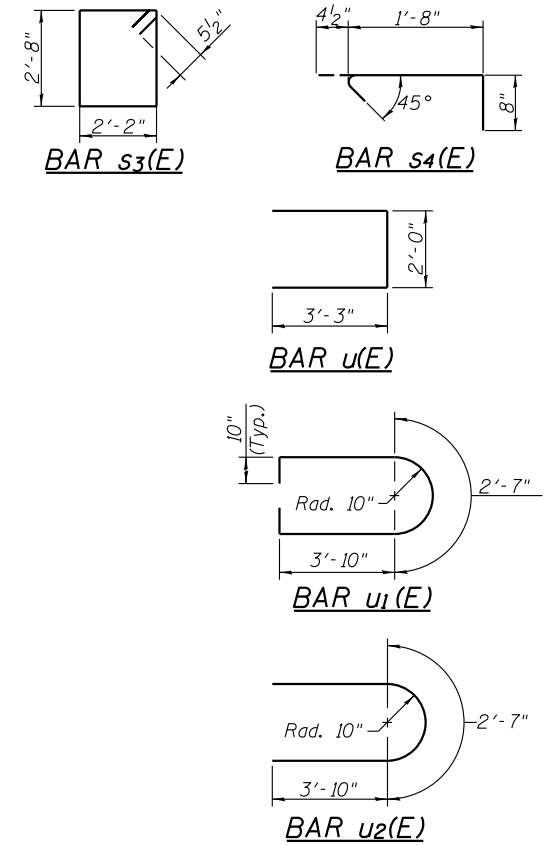


ELEVATION
(Looking South)

END VIEW



SECTION A-A



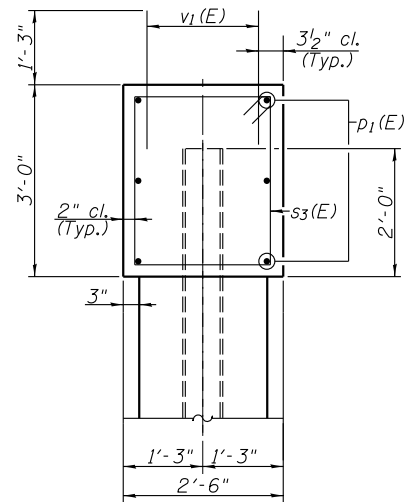
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	32	#5	16'-1"	—
h2(E)	10	#5	13'-8"	—
h3(E)	10	#5	11'-6"	—
p1(E)	12	#7	17'-3"	—
s3(E)	36	#5	10'-7"	□
s4(E)	314	#4	2'-9"	┌
u(E)	6	#6	8'-6"	U
u1(E)	16	#5	11'-11"	U
u2(E)	10	#5	10'-3"	U
v1(E)	70	#5	3'-4"	—
v4(E)	74	#5	12'-6"	—
Cofferdam Excavation		Cu. Yd.	2	
Concrete Structures		Cu. Yd.	35.9	
Reinforcement Bars, Epoxy Coated		Pound	3790	
Furnishing Steel Piles HP10x42		Foot	228	
Driving Piles		Foot	228	
Concrete Encasement		Cu. Yd.	2.1	
Cofferdam (Type 1) (Location - 1)		Each	1	

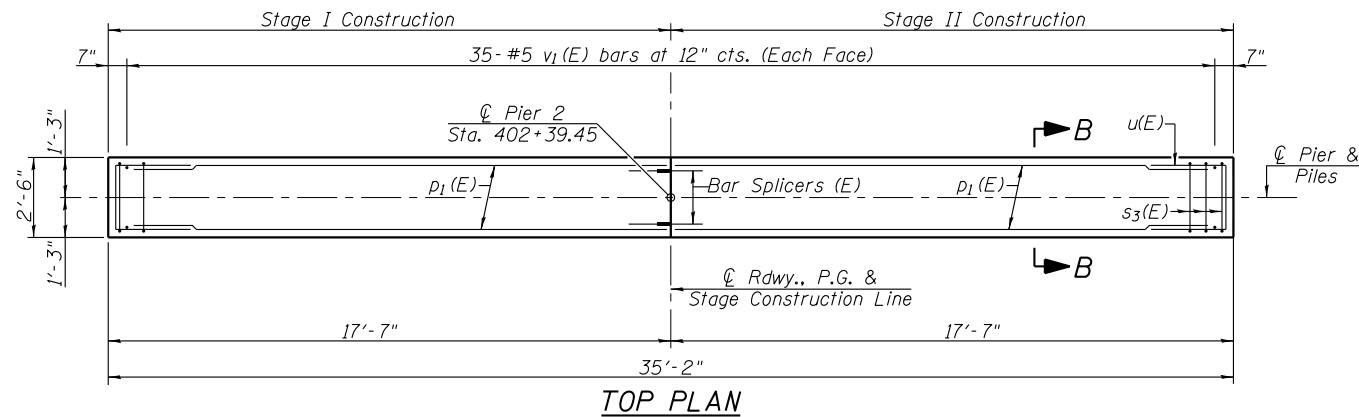
For details of Bar Splicers, see sheet 17 of 19.
For details of piles and Concrete Encasement, see sheet 16 of 19.

PILE DATA

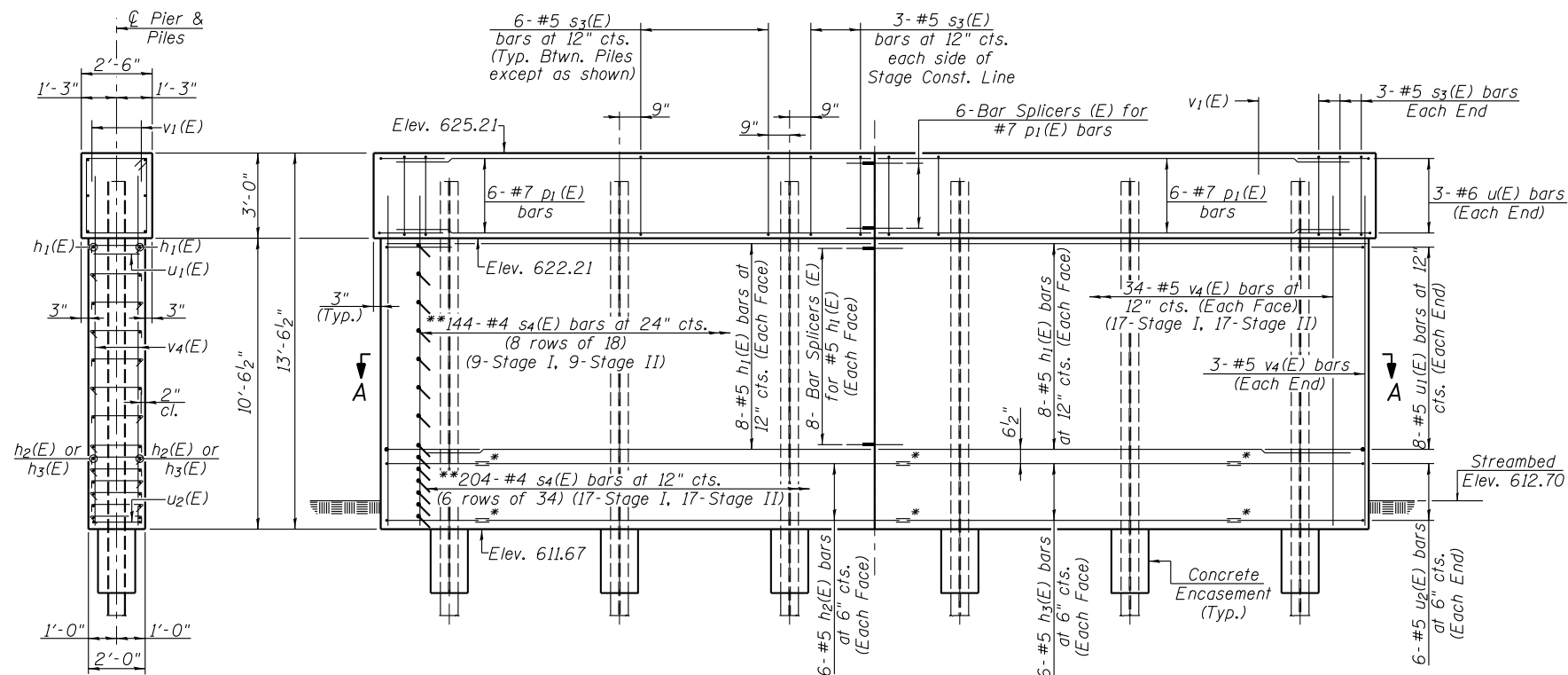
Type: Steel HP 10x42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 168 kips
Est. Length: 38 ft.
No. Production Piles: 6
No. Test Piles: 0



SECTION B-B

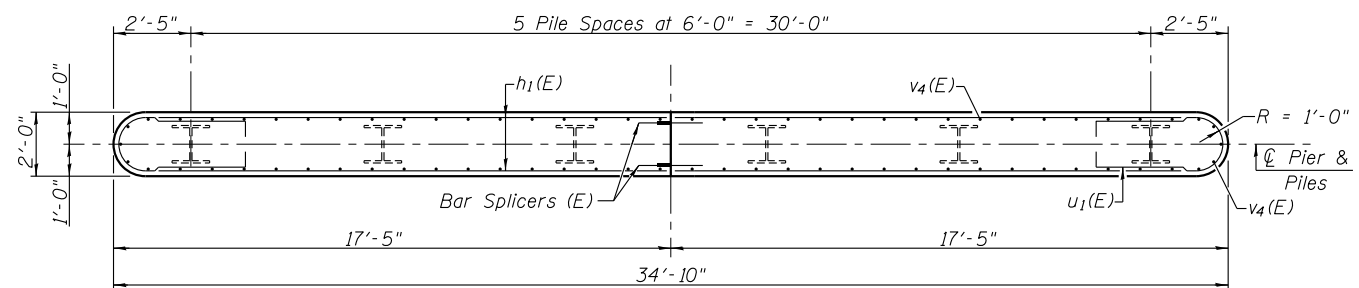


TOP PLAN

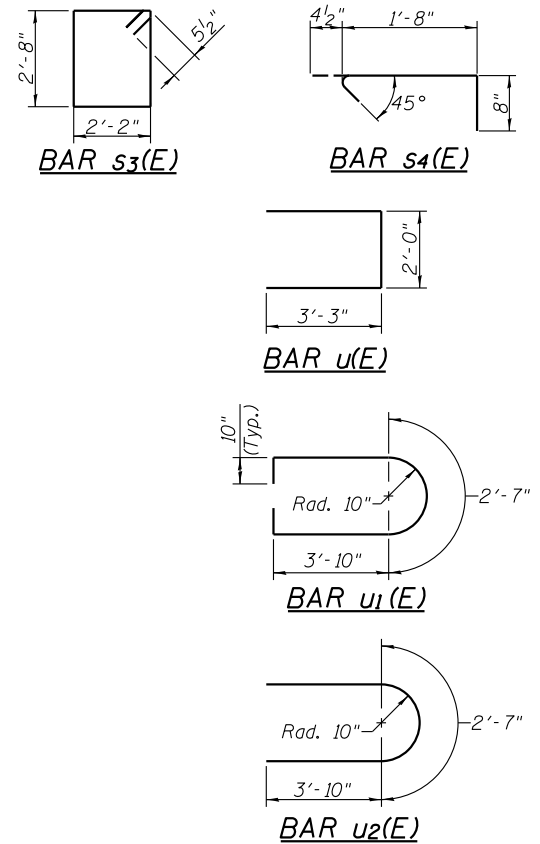


ELEVATION
(Looking South)

END VIEW



SECTION A-A



BILL OF MATERIAL

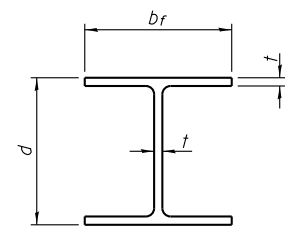
Bar	No.	Size	Length	Shape	
h1(E)	32	#5	16'-1"	—	
h2(E)	12	#5	13'-8"	—	
h3(E)	12	#5	11'-6"	—	
p1(E)	12	#7	17'-3"	—	
s3(E)	36	#5	10'-7"	□	
s4(E)	348	#4	2'-9"	└┘	
u1(E)	6	#6	8'-6"	U	
u2(E)	12	#5	10'-3"	U	
v1(E)	70	#5	3'-4"	—	
v4(E)	74	#5	12'-6"	—	
Cofferdam Excavation				Cu. Yd.	8
Concrete Structures				Cu. Yd.	36.6
Reinforcement Bars, Epoxy Coated				Pound	3930
Furnishing Steel Piles HP10x42				Foot	246
Driving Piles				Foot	246
Concrete Encasement				Cu. Yd.	2.1
Cofferdam (Type 1) (Location - 2)				Each	1

For details of Bar Splicers, see sheet 17 of 19.
For details of Piles and Concrete Encasement, see sheet 16 of 19.

PILE DATA

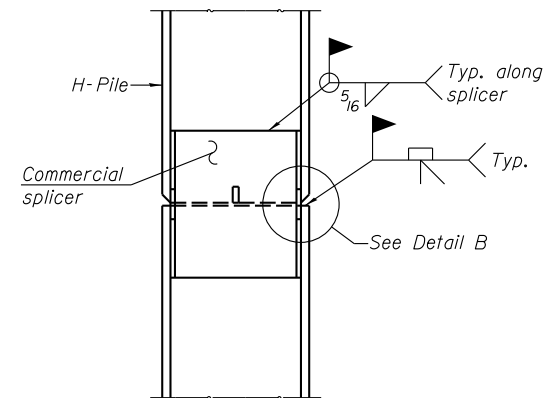
Type: Steel HP 10x42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 168 kips
Est. Length: 41 ft.
No. Production Piles: 6
No. Test Piles: 0

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>PIER 2 STRUCTURE NO. 029-0072</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			574	12BR-1	FULTON	62	38	
PLOT SCALE =	DRAWN -	REVISED -	REVISED -			CONTRACT NO. 68732					
PLOT DATE =	CHECKED -	REVISED -	REVISED -			SHEET NO. 15 OF 19 SHEETS					

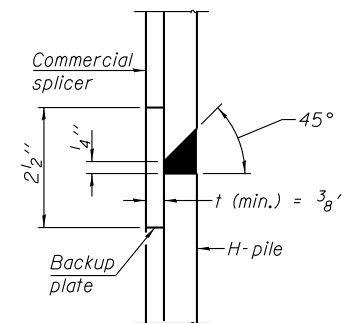


STEEL PILE TABLE

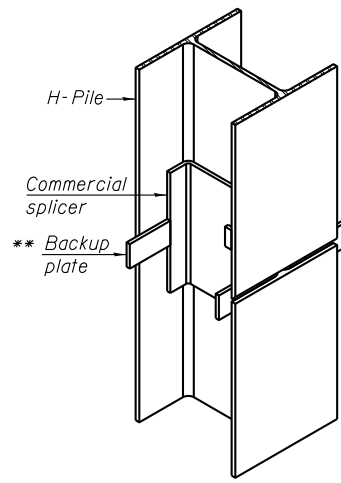
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

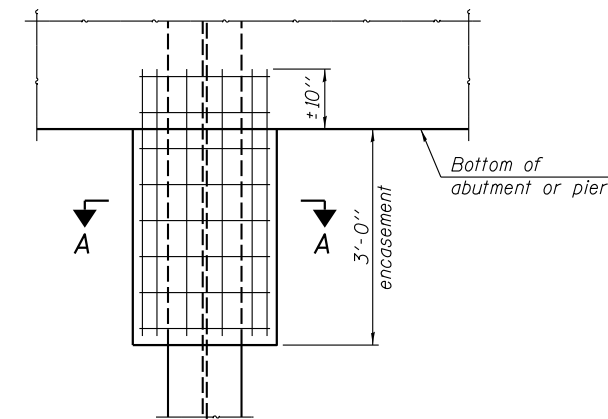


DETAIL "B"



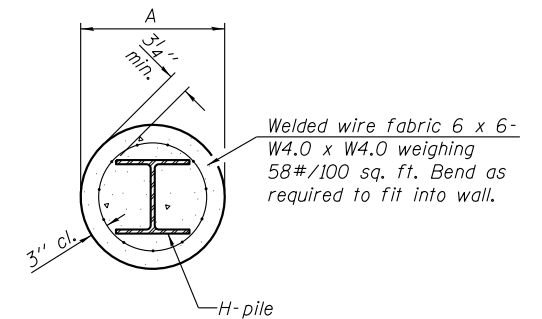
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



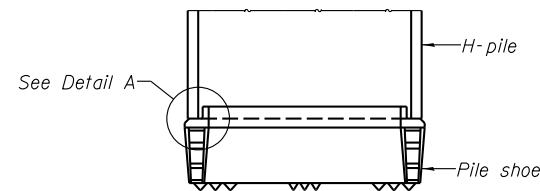
ELEVATION

PILE ENCASEMENT

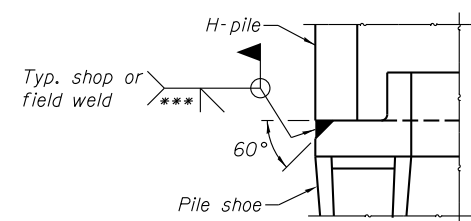


SECTION A-A

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

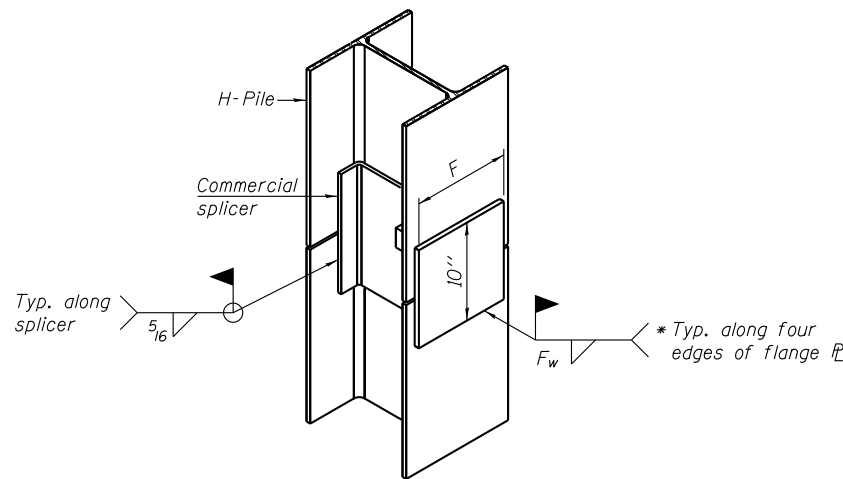


ELEVATION



DETAIL A

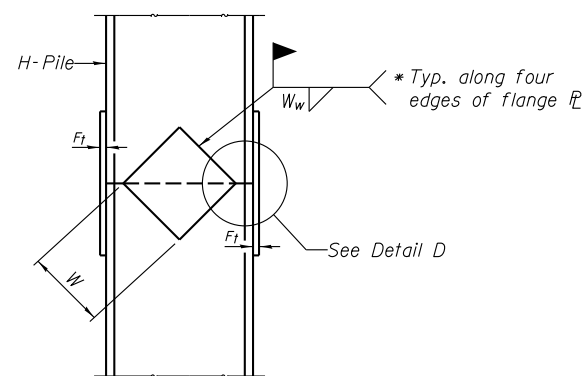
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

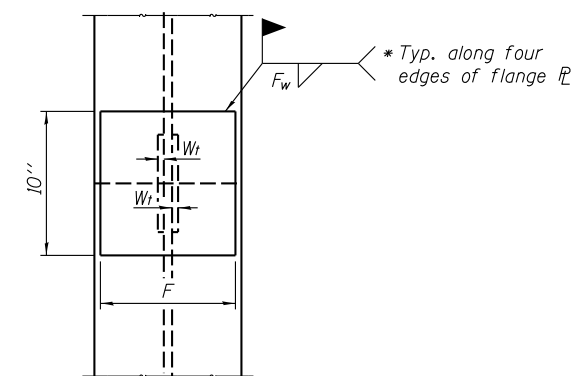
WELDED COMMERCIAL SPLICE ALTERNATE

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

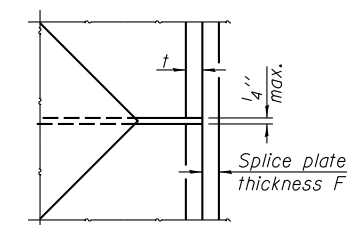


ELEVATION

WELDED PLATE FIELD SPLICE



END VIEW



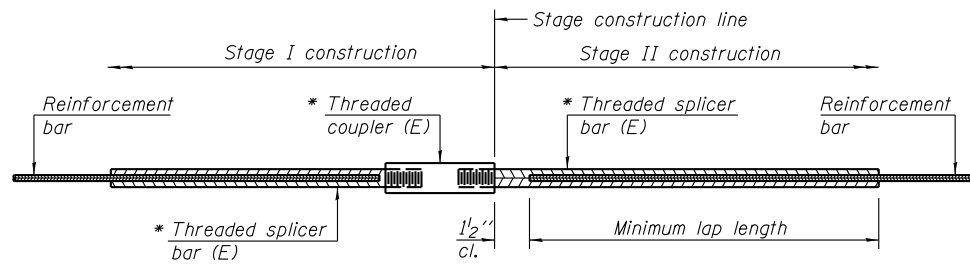
DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
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"	1/16"	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"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	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"

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

F-HP 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	HP PILE DETAILS STRUCTURE NO. 029-0072		F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISIONS -				574	12BR-1	FULTON	62	39
		PLOT SCALE =	REVISIONS -		SHEET NO. 16 OF 19 SHEETS ILLINOIS FED. AID PROJECT						
		PLOT DATE =	REVISIONS -								
CONTRACT NO. 68732											



STANDARD BAR SPLICER ASSEMBLY

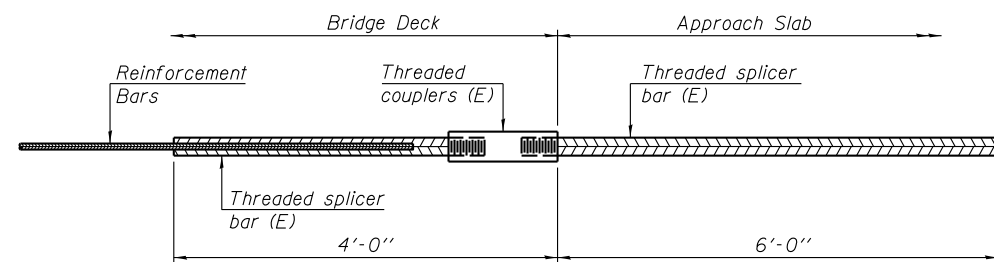
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

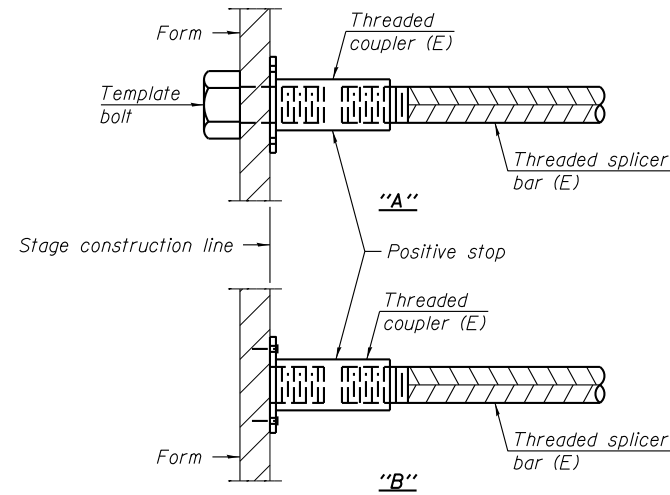
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
N. Appr. Footing	5	40	3
N. Appr. Slab (Top)	4	25	4
N. Appr. Slab (Bottom)	5	46	3
N. Abut. Cap	7	6	4
N. Abut. Haunch	5	3	3
S. Appr. Footing	5	40	3
S. Appr. Slab (Top)	4	25	4
S. Appr. Slab (Bottom)	5	46	3
S. Abut. Cap	7	6	3
S. Abut. Haunch	5	3	3
Pier 1 Haunch	5	2	3
Pier 2 Haunch	5	2	3
Top of Slab	5	51	4
Bottom of Slab	5	75	3
Pier 1 Cap	7	6	4
Pier 2 Cap	7	6	4
Pier 1 Wall	5	16	4
Pier 2 Wall	5	16	4



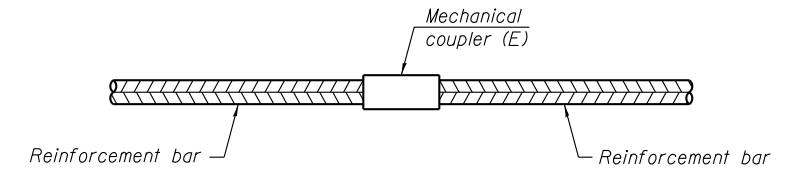
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



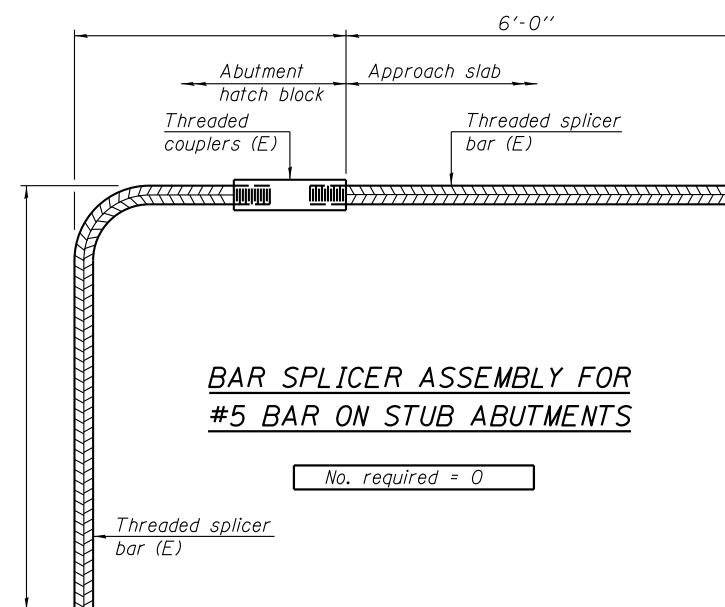
INSTALLATION AND SETTING METHODS

"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
Pier 1	#5	30
Pier 2	#5	36



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

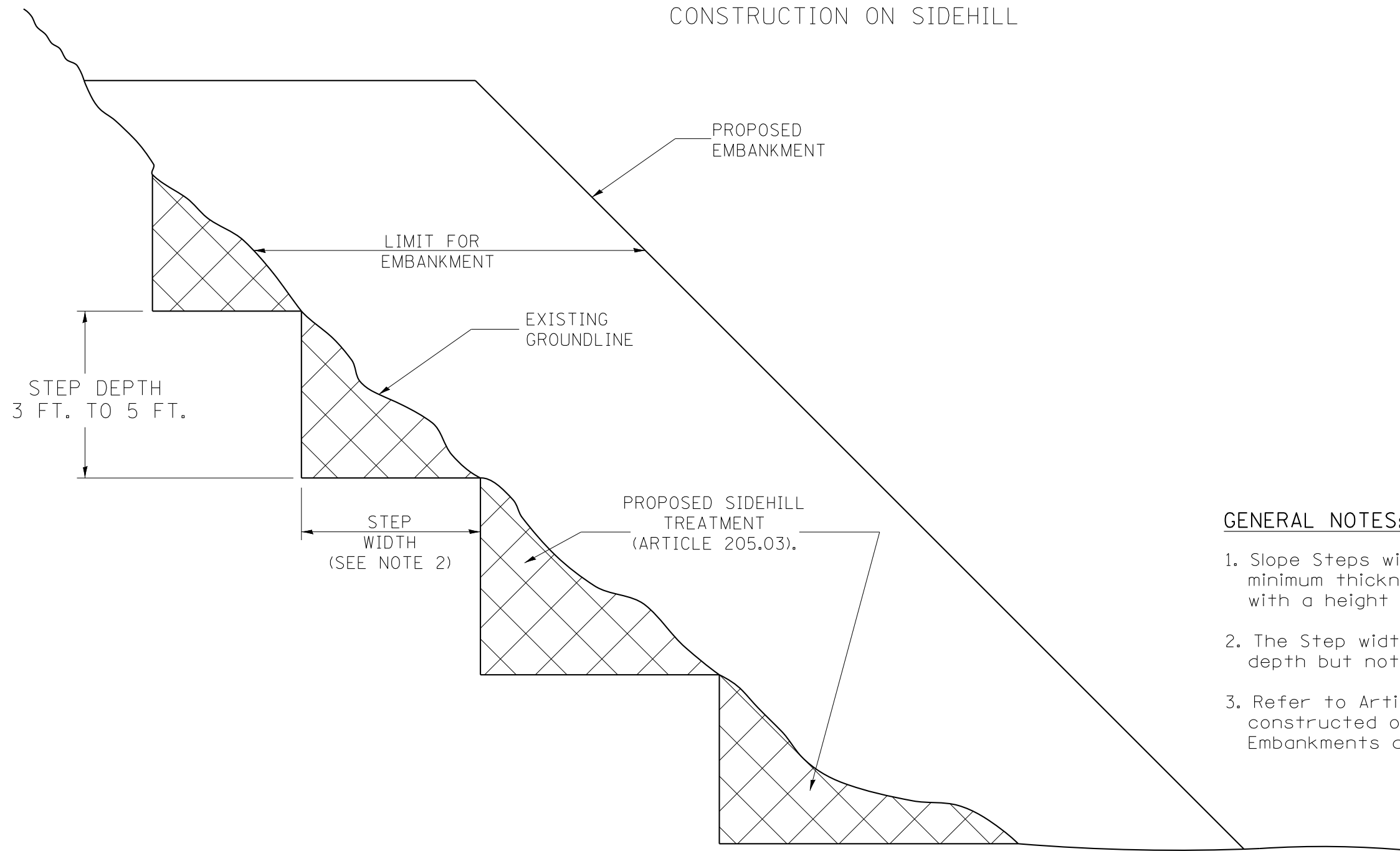
BSD-1

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 029-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			574	12BR-1	FULTON	62	40	
PLOT SCALE =	DRAWN -	REVISIED -	REVISIED -			CONTRACT NO. 68732					
PLOT DATE =	CHECKED -	REVISIED -	REVISIED -			SHEET NO. 17 OF 19 SHEETS					

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



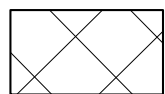
GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:



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

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

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

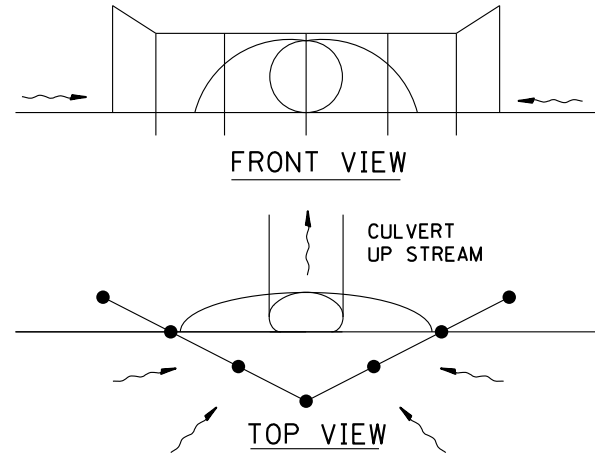
SLOPE STEPS DETAIL

NOT TO SCALE

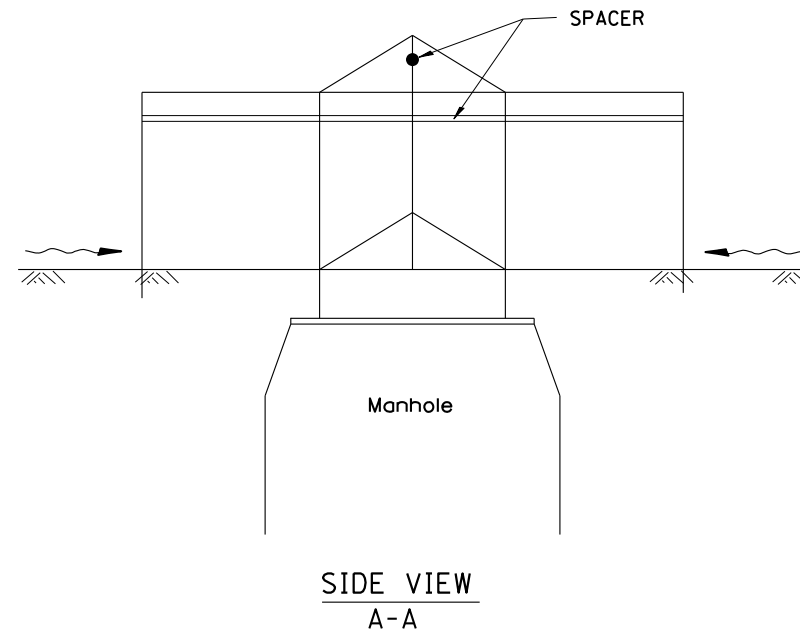
CADD STD. 205001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	43
CONTRACT NO. 68732				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

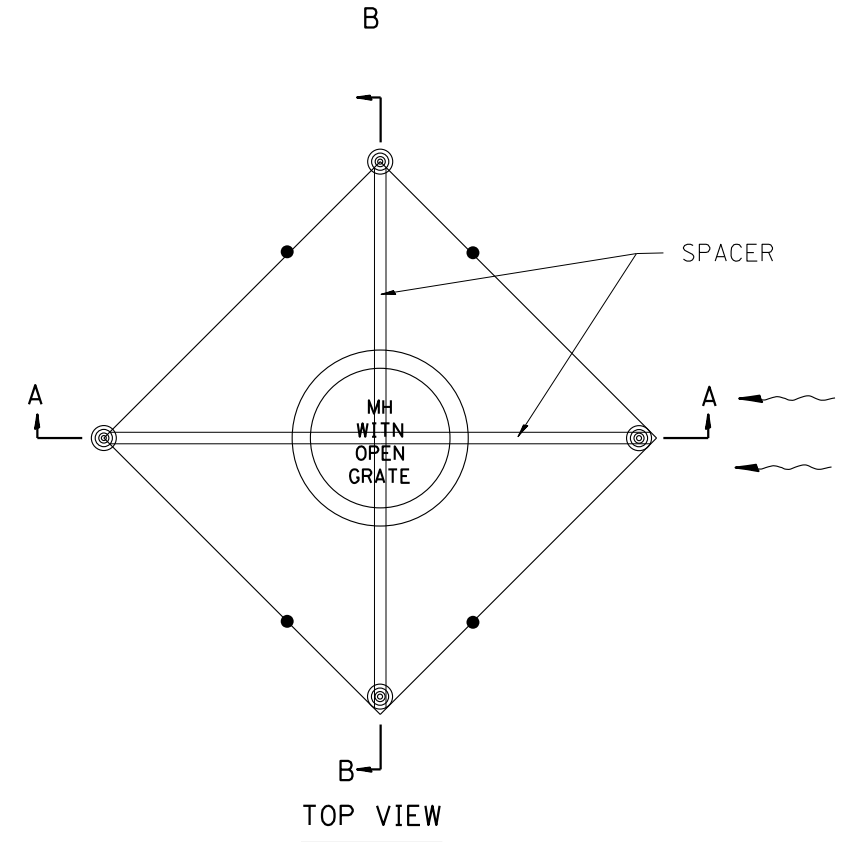
Designer NOTES:
 1. Designer to modify this Special Detail sheet, as needed, for inclusion in plans.
 2. Include Highway Standard 280001 "TEMPORARY EROSION CONTROL SYSTEM."



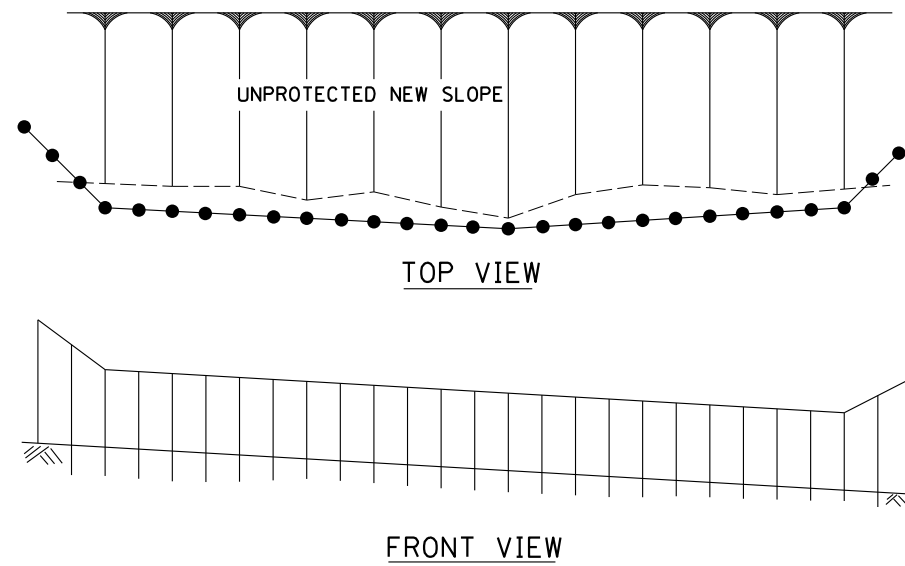
UPSTREAM PIPE CULVERT EROSION CONTROL



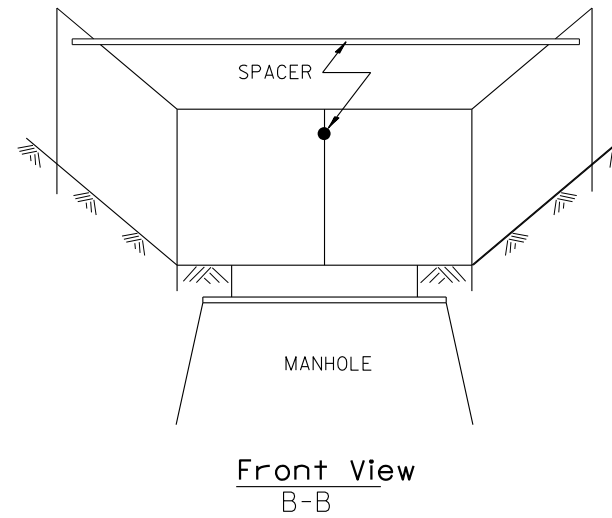
SIDE VIEW
A-A



TOP VIEW



FRONT VIEW



Front View
B-B
EROSION CONTROL
AT
OPEN GRATE MAN HOLE

GENERAL NOTES:

1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

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

1-1-97	T.P.
3-11-03	M.A.
ELIMINATED SILT FENCE DITCH CHECK	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

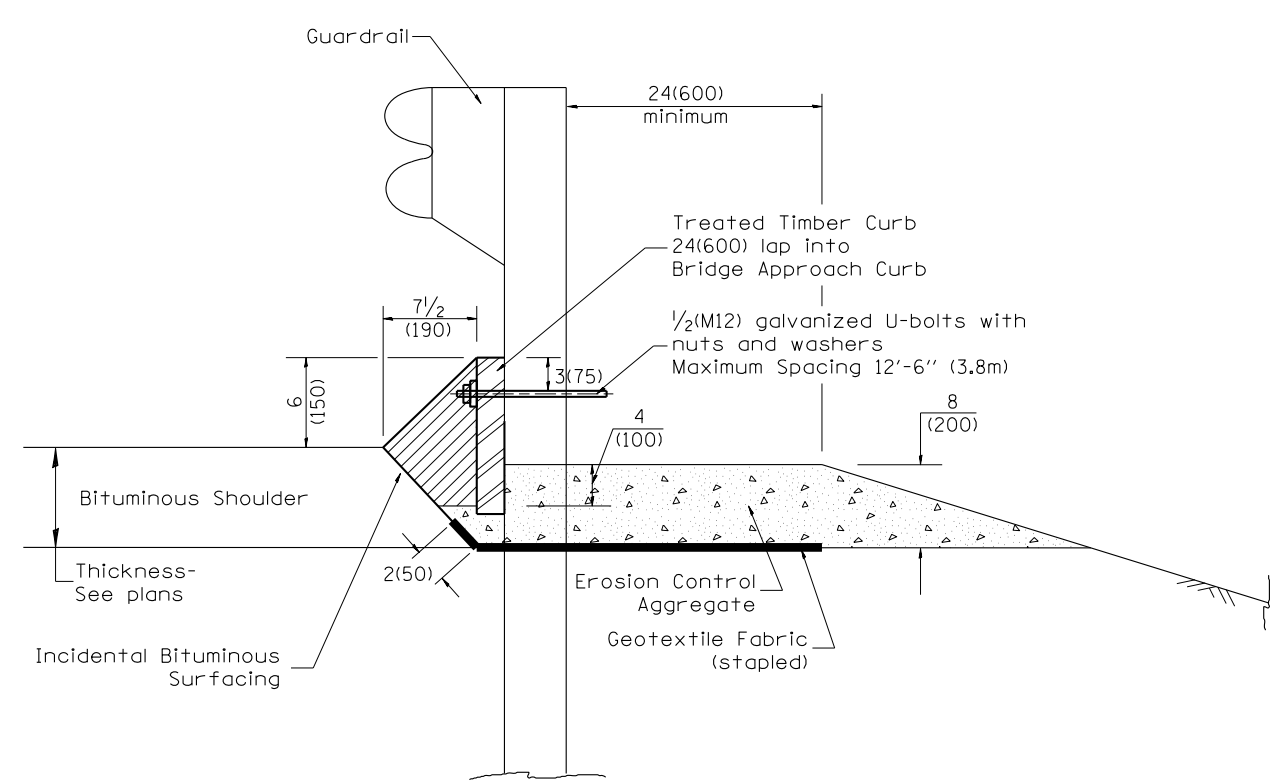
TYPICAL APPLICATION OF SILT FILTER FENCE

CADD STD. 280001-D4

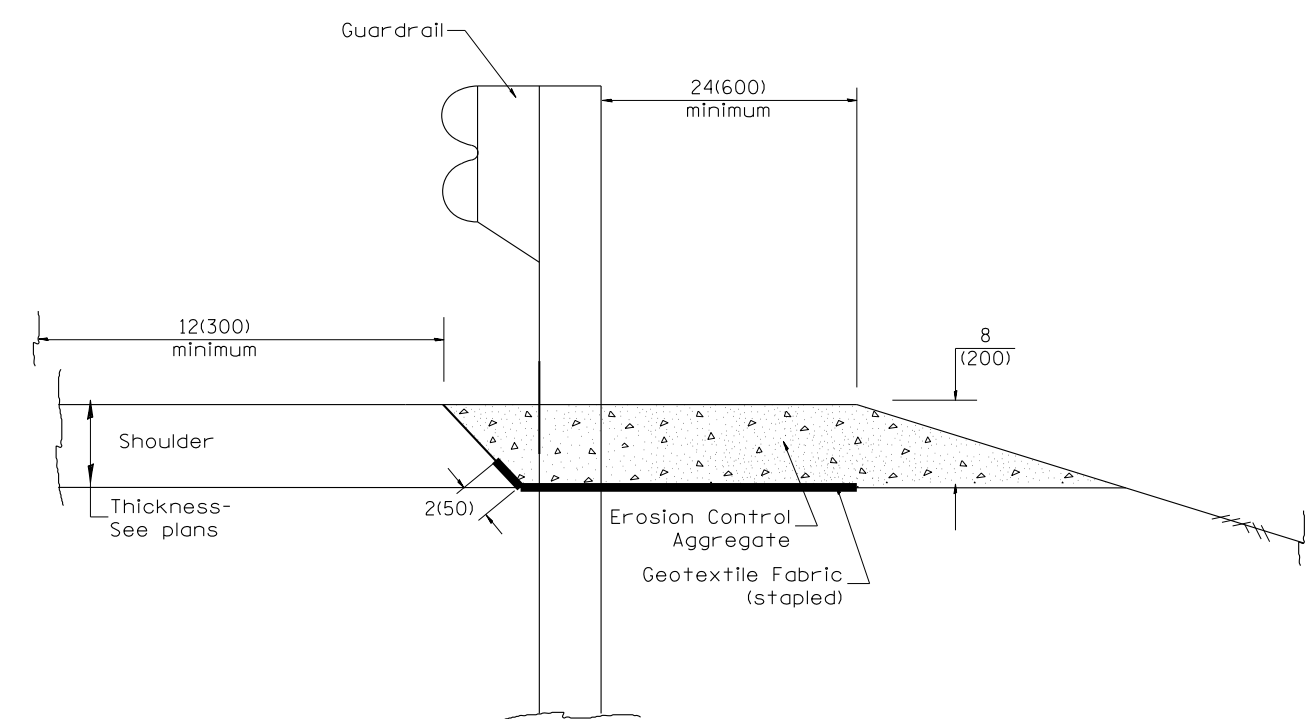
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	44
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:

1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)
3. Include State Standards 609001, 609006 or 610001 if applicable.
4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

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

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

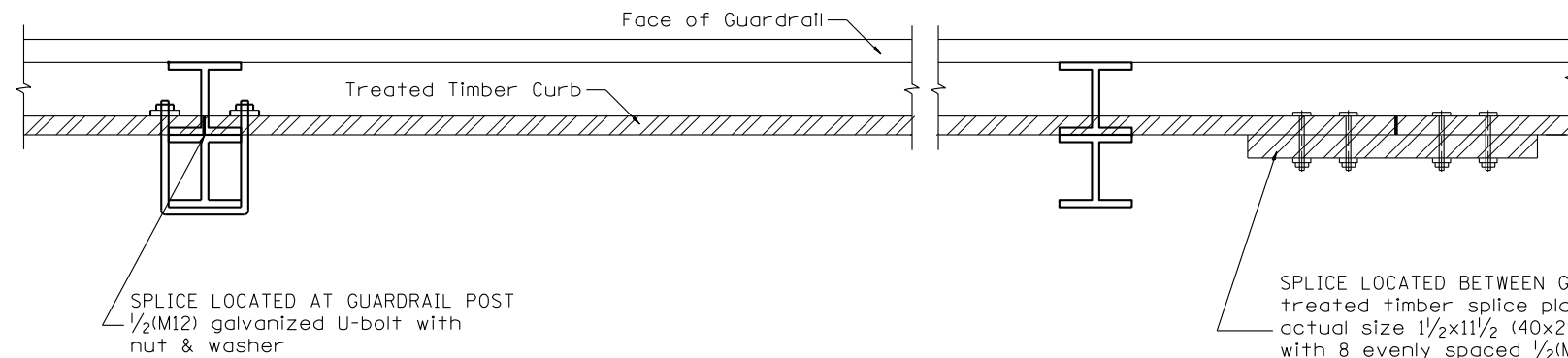
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

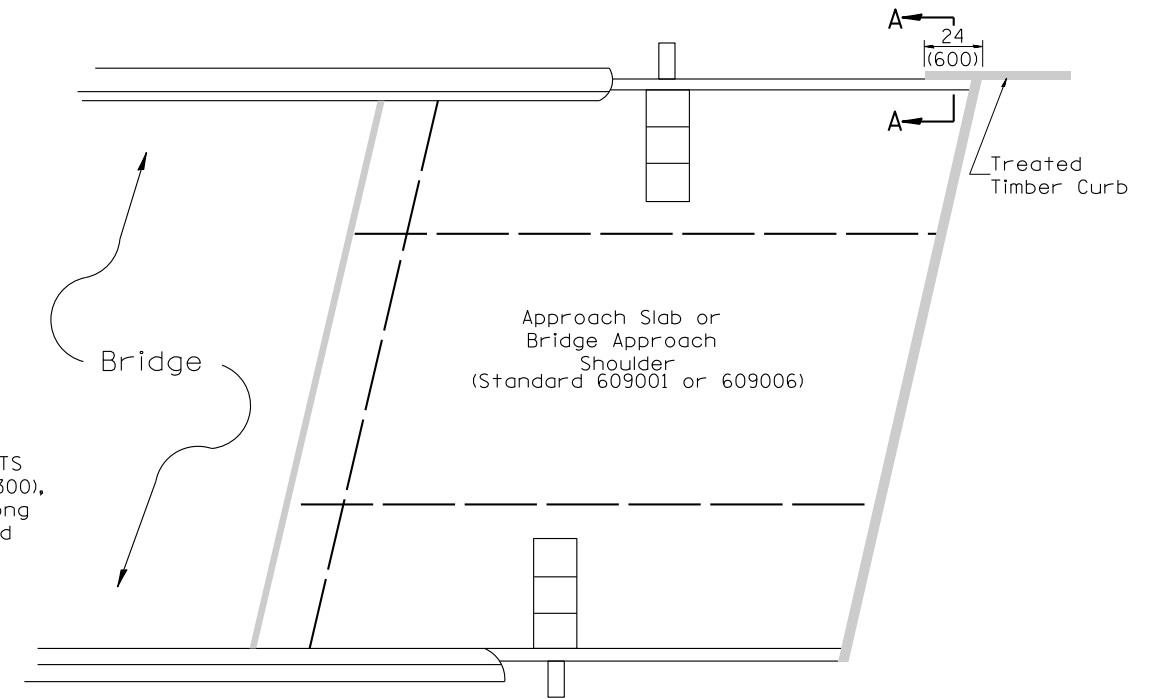
SHT. 1 OF 2
CADD STD. 630101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68732	

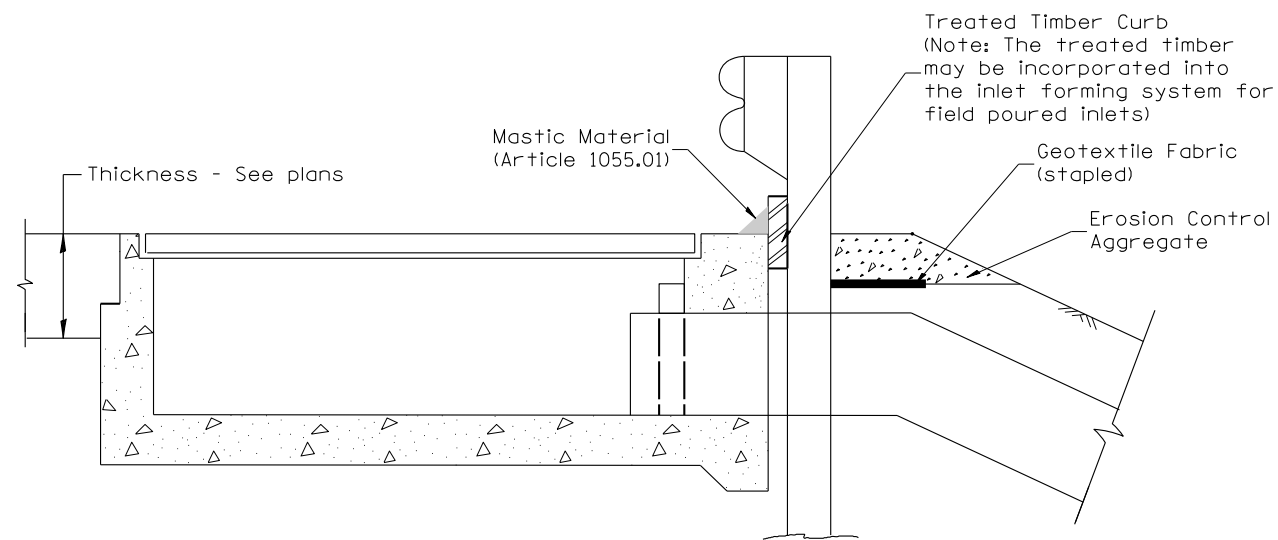


DETAIL A
(Typical Treated Timber Splices)

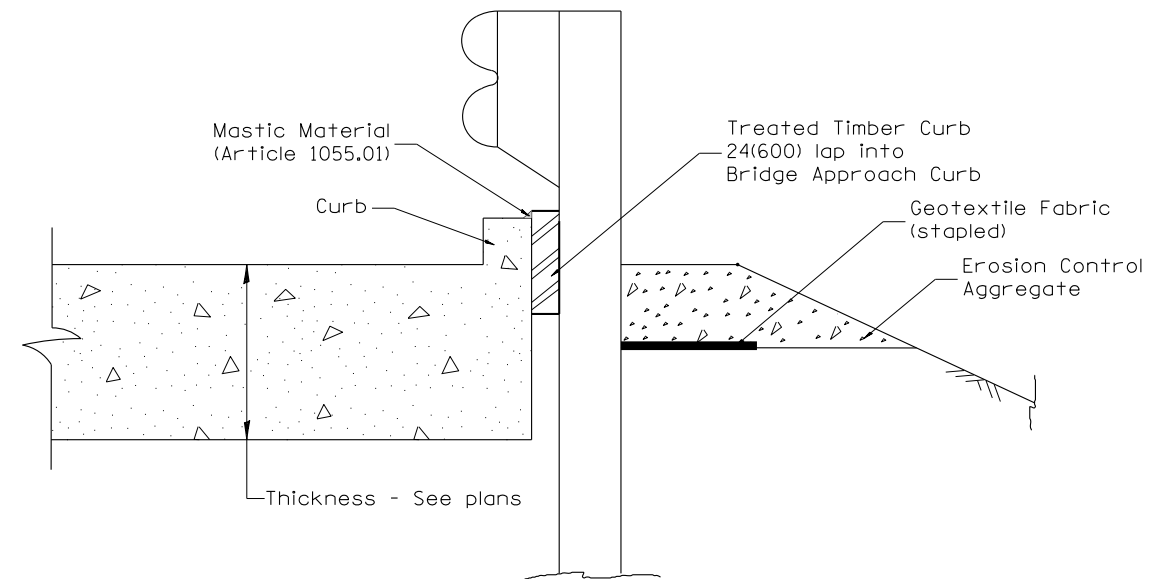
SPLICE LOCATED BETWEEN GUARDRAIL POSTS
treated timber splice plate 2x12 (50x300),
actual size 1 1/2x1 1/2 (40x290), 24(600) long
with 8 evenly spaced 1/2(M12) galvanized
bolts with nuts & washers.



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



TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)

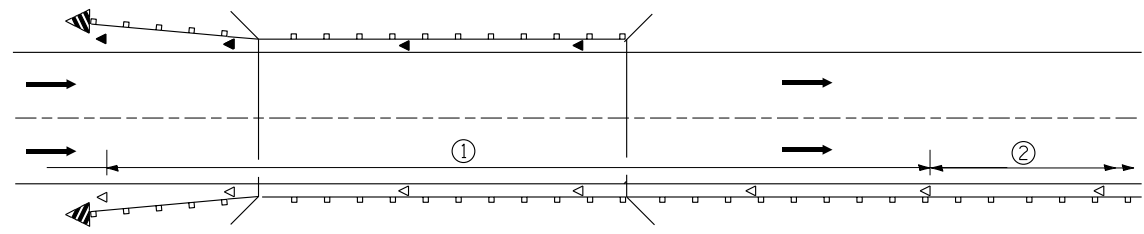


SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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

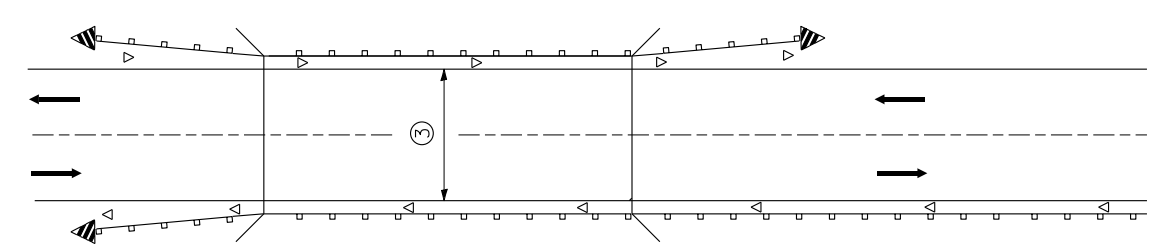
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								574	12BR-1	FULTON	62	46
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 68732				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
 1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
 FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
 2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 720011.



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



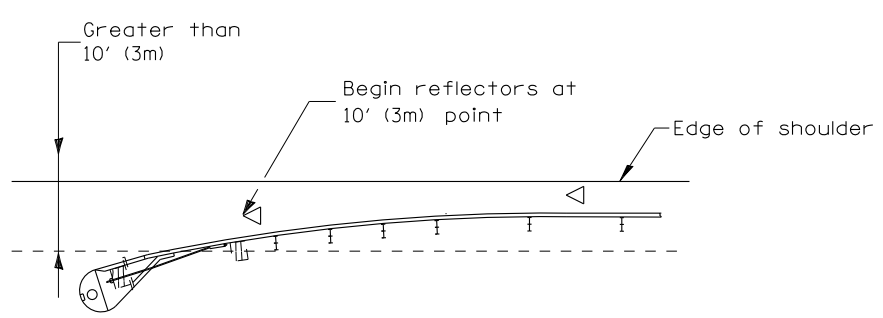
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

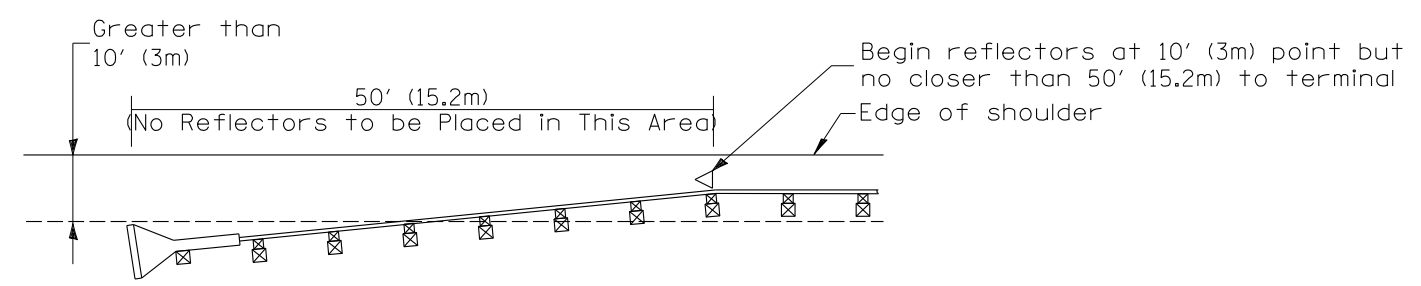
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

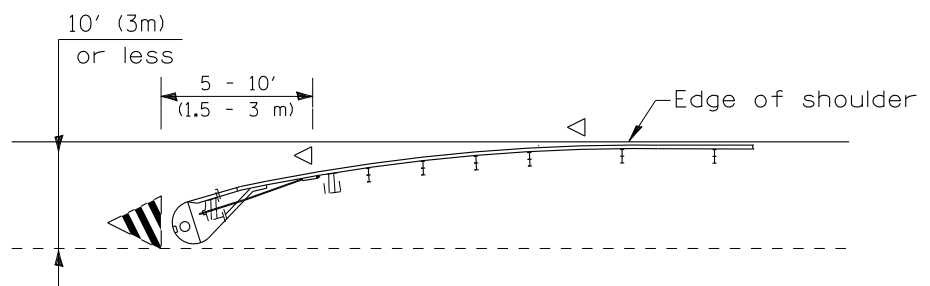
[Terminal over 10' (3m) from edge of shoulder]
•See Plans for Type



NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

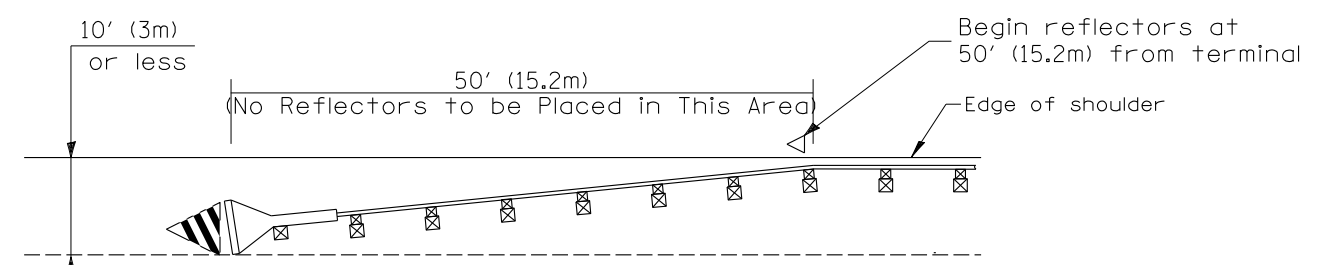
Traffic Barrier Terminal Type 1 (Special)

[Terminal over 10' (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) or less from edge of shoulder]
•See Plans for Type



Traffic Barrier Terminal Type 1(Special)

[Terminal 10' (3m) or less from edge of shoulder]

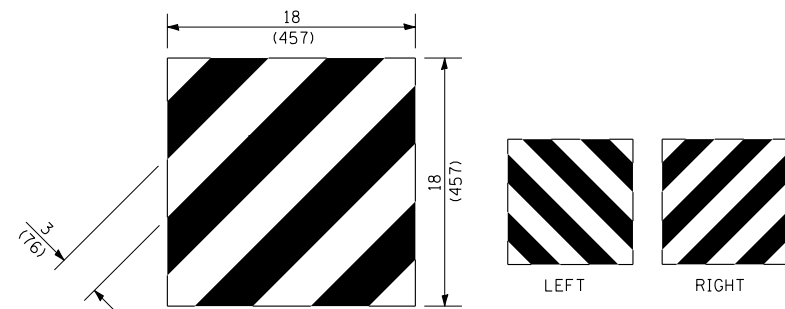
TERMINAL MARKER PLACEMENT

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

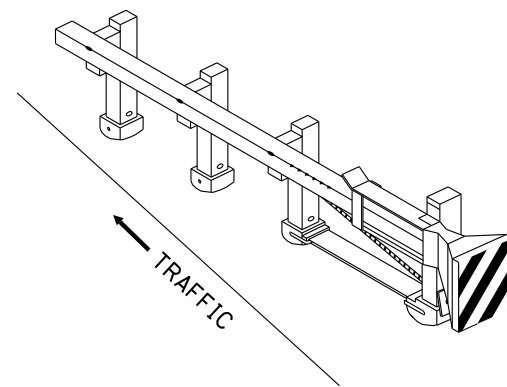
01-01-97	RENUM. E-10.02, NEW REVISION BOX	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL AND BARRIER WALL DELINEATION	SHT. 1 OF 3 CADD STD. 635101-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-01-97	CORRECT STD. SPEC. #	J.A.							574	12BR-1	FULTON	62	47
10-16-06	REVISED TO 2007 SPEC.	M.A.							CONTRACT NO. 68732				

NOT TO SCALE

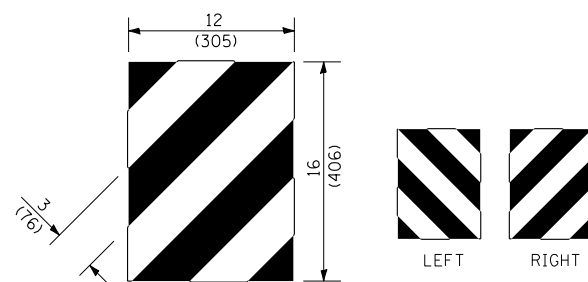
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



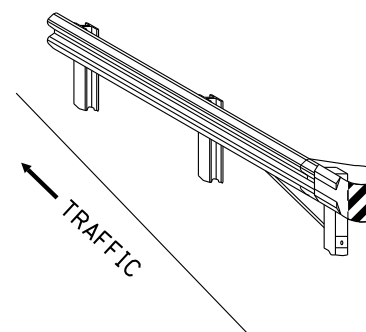
For Traffic Barrier Terminal Type 1 (Special)



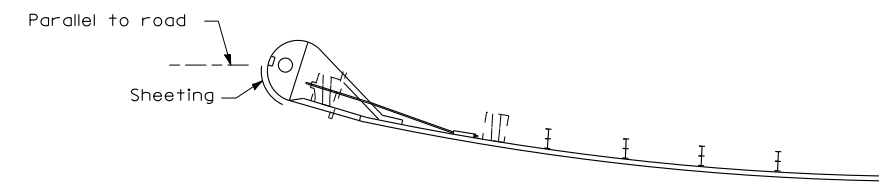
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
• See Plans for Type



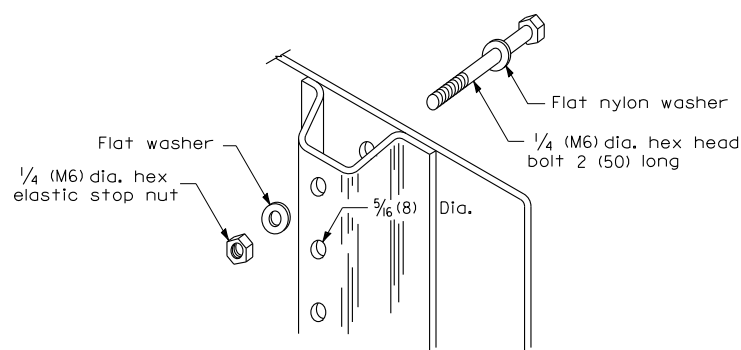
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
• See Plans for Type



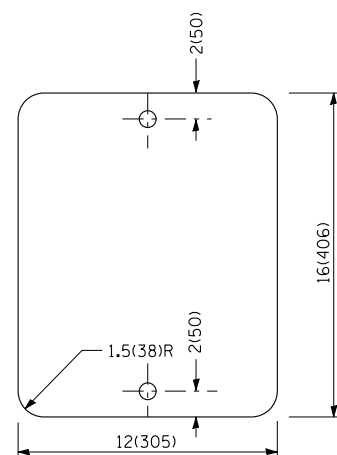
Sheeting Position for
Traffic Barrier Terminal Type (*)
• See Plans for Type

TERMINAL MARKER DETAILS

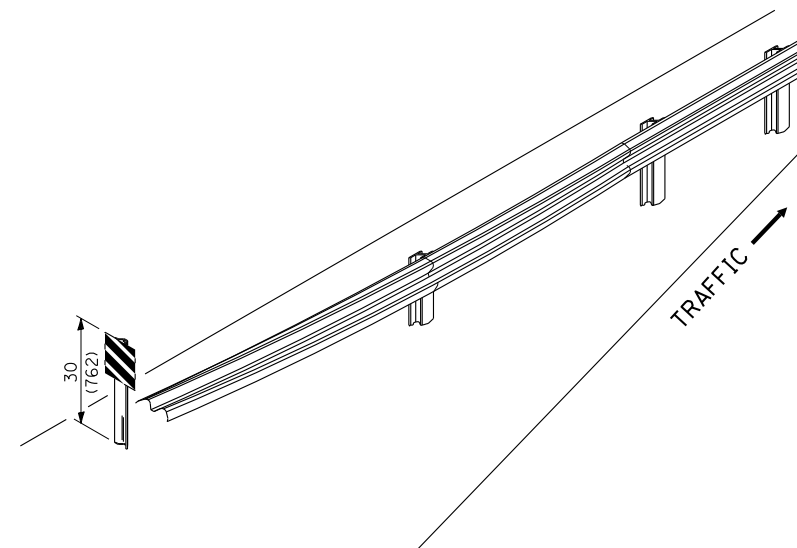
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

POST MOUNTED TERMINAL MARKER ASSEMBLY

TERMINAL MARKER TREATMENTS

GENERAL NOTES

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

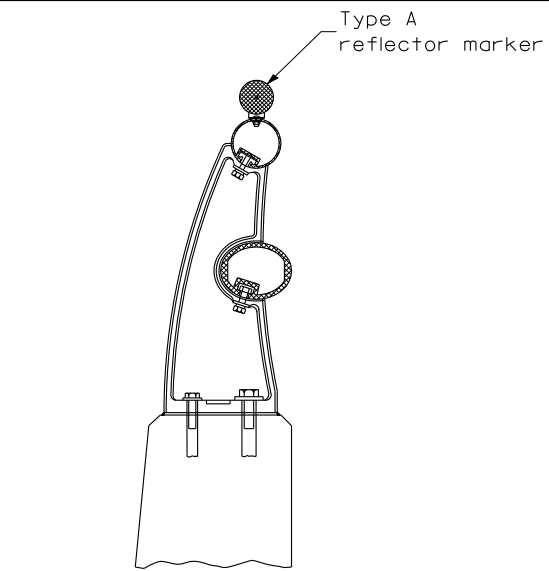
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

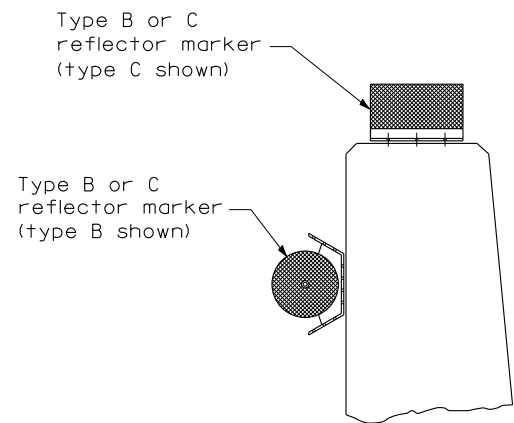
NOT TO SCALE

SHT. 2 OF 3
CADD STD. 635101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	48
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68732	

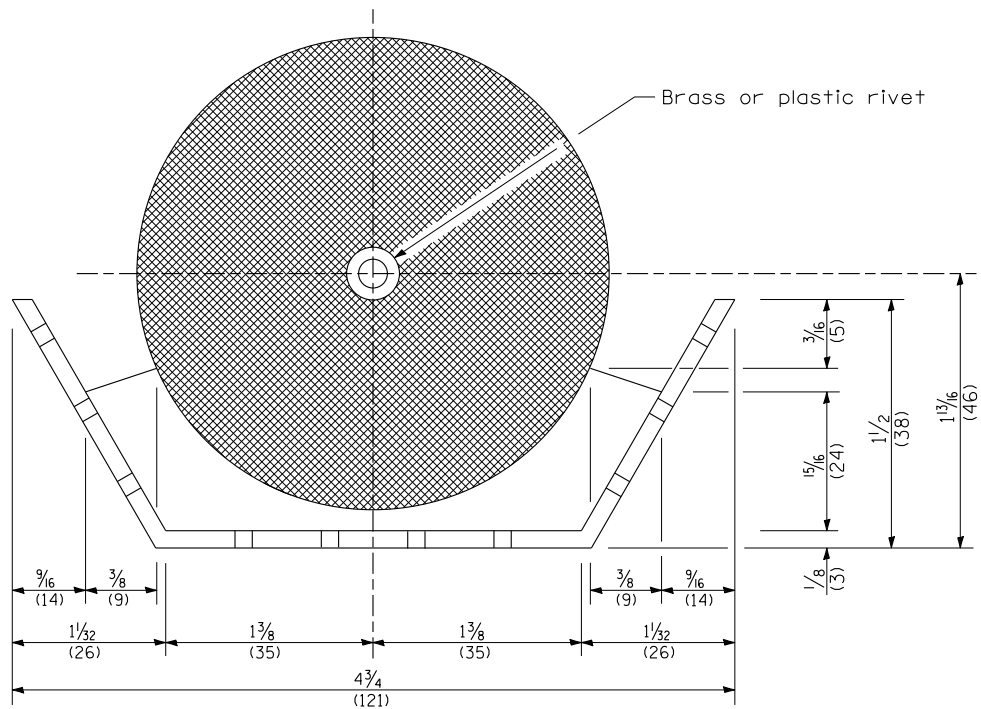
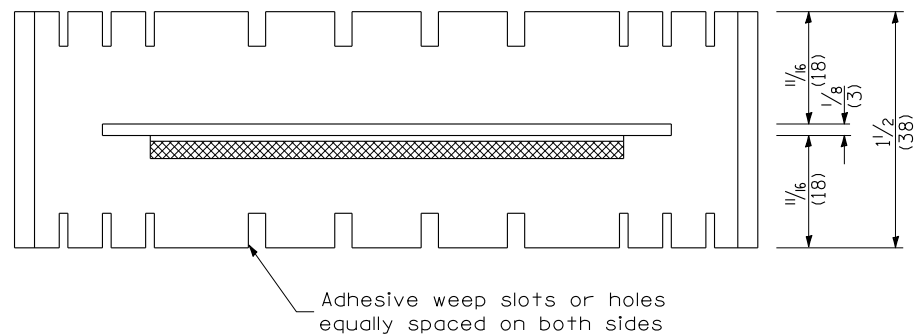


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

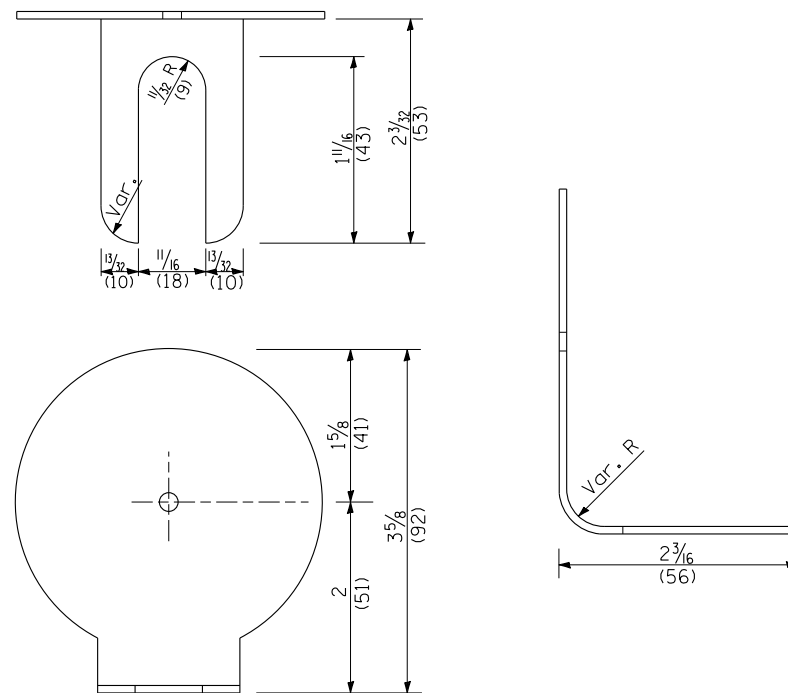


TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING

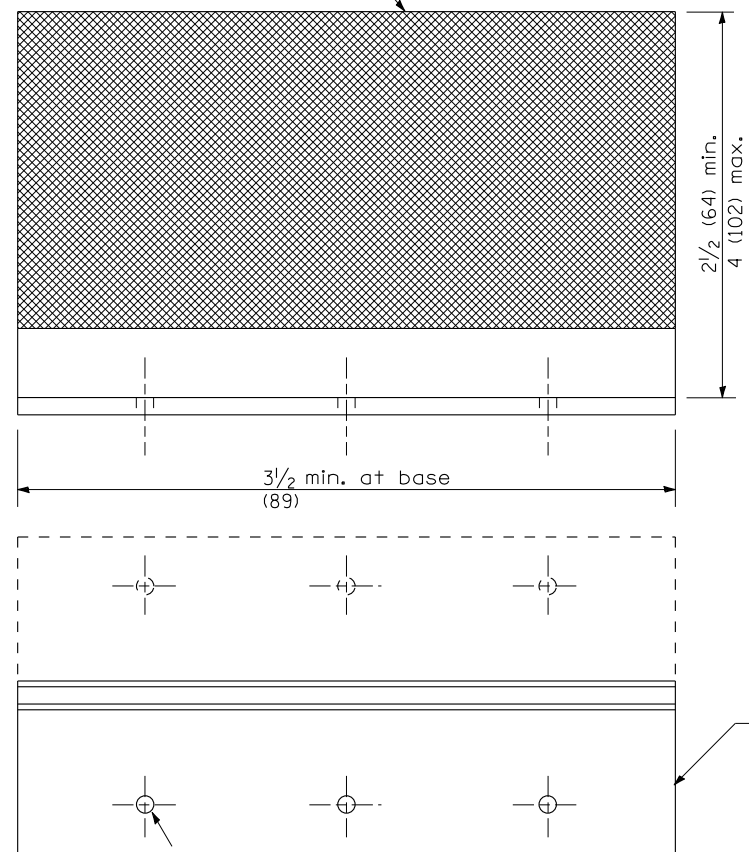


REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE A

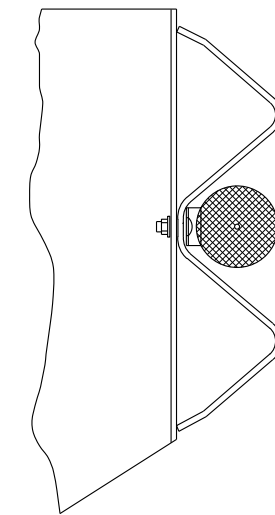
Min. reflective area 6 1/2 sq. in. (4,194 mm²) each side. May be rectangular or slight trapezoid.



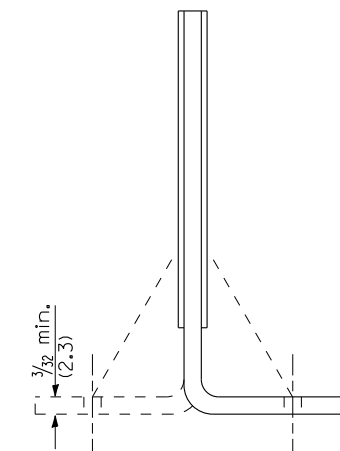
REFLECTOR MARKER TYPE C

3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 Sq. in. (4,516 mm²)



TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



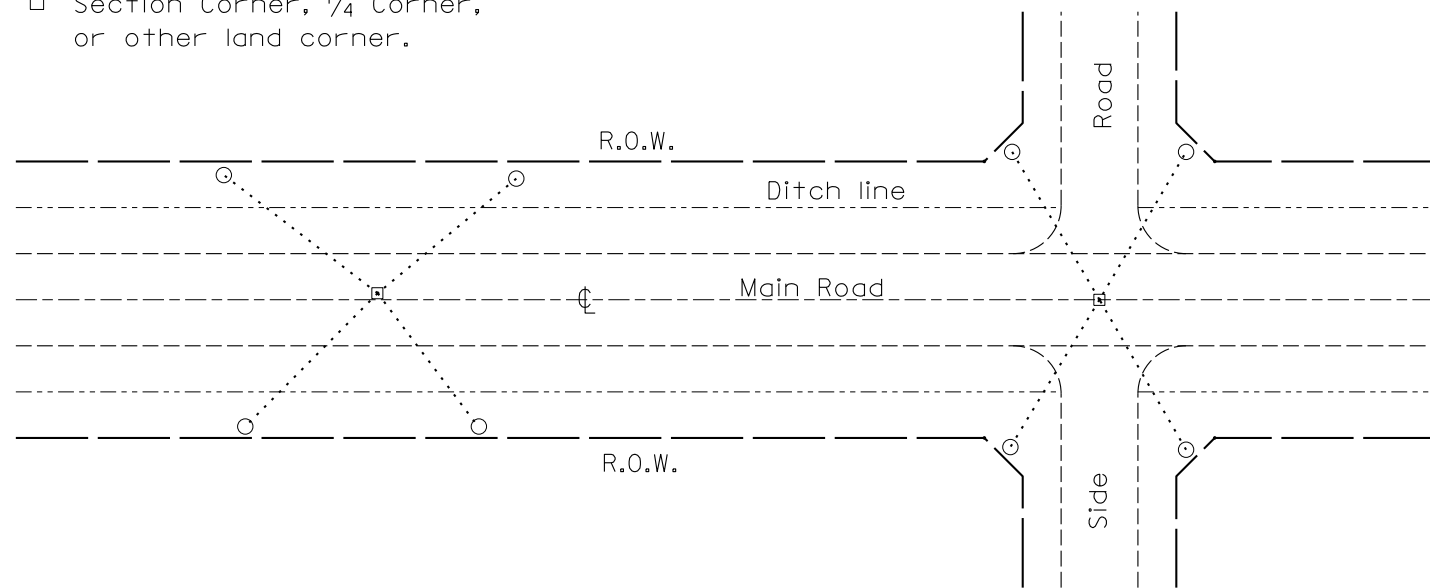
Cross section may be "T" or "L" shaped and may have side supports at ends.

REFLECTORS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	49
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68732	

PERMANENT SURVEY TIES

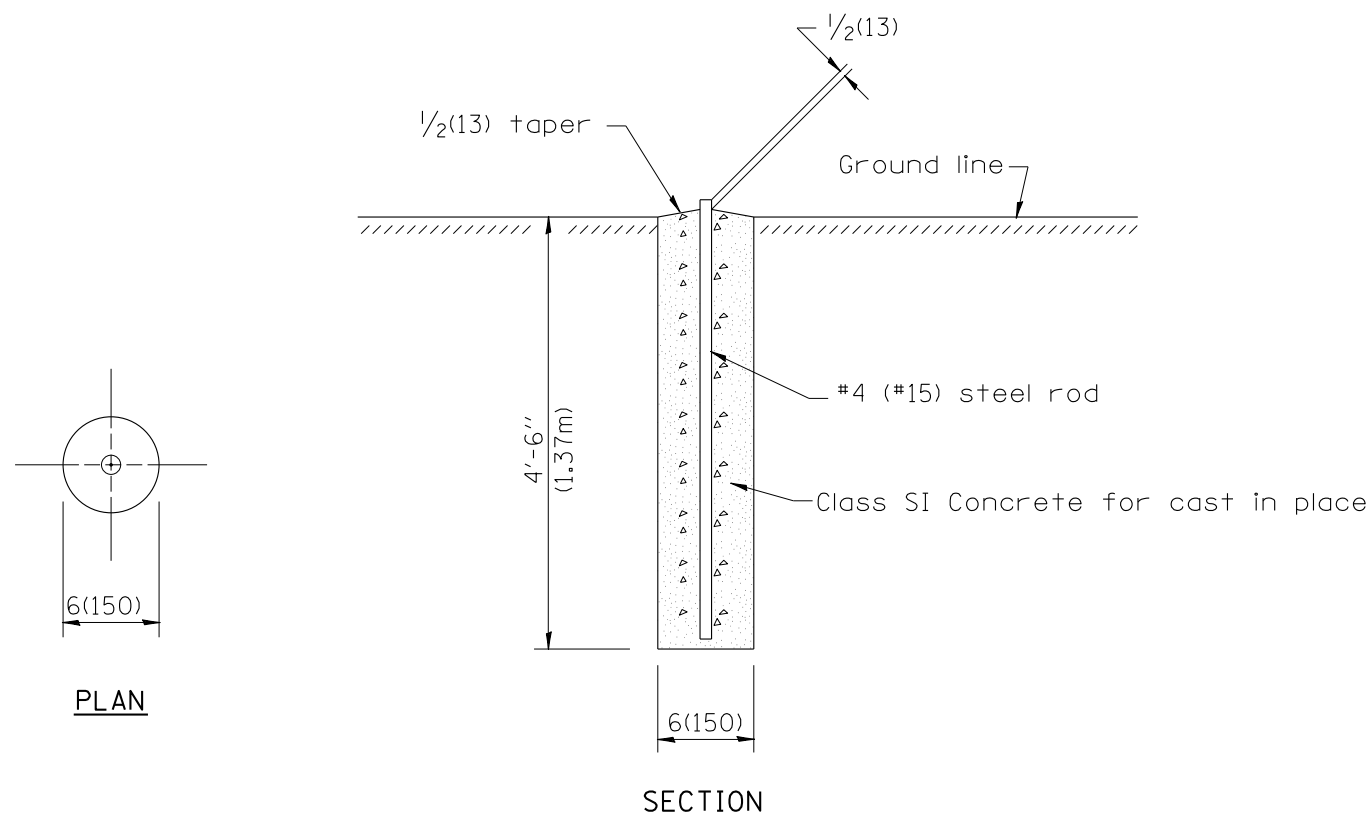
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



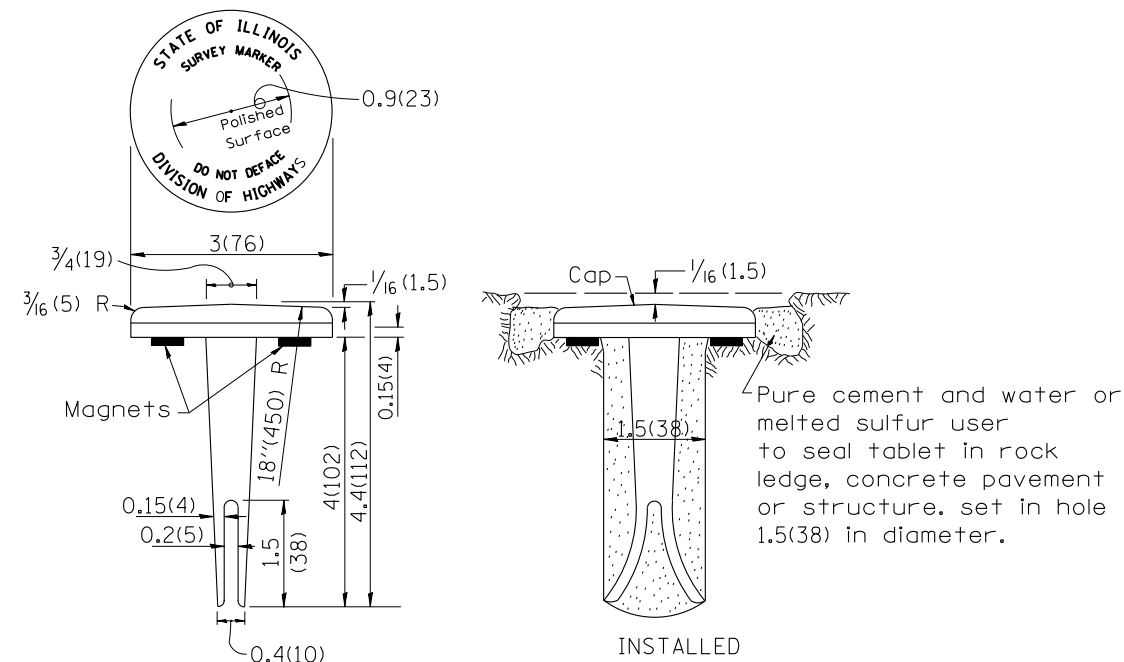
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



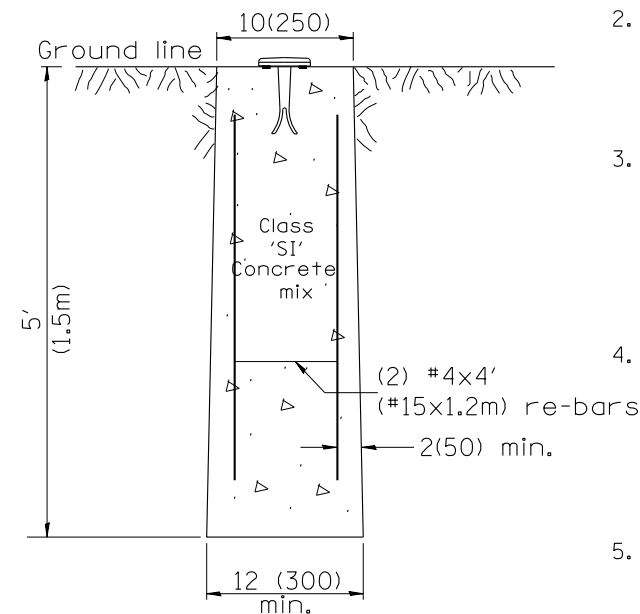
PERMANENT SURVEY MARKERS



BRONZE TABLET - No Scale TYPE I

GENERAL NOTES

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



MARKER CAST IN PLACE TYPE II

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

DESIGNER NOTES:
 1. ADD DISTRICT SPECIAL PROVISION.
 2. MODIFIES STATE STD 667101 TO CALL FOR "BRONZE" TABLET.

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

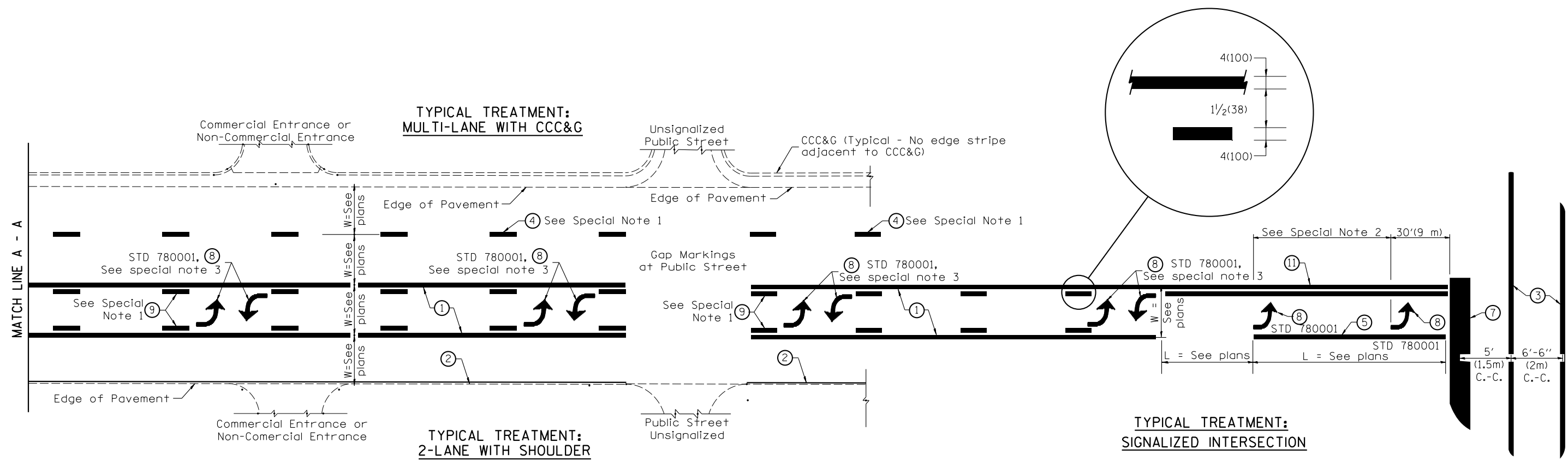
**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	50
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)



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

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

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

SPECIAL NOTES

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

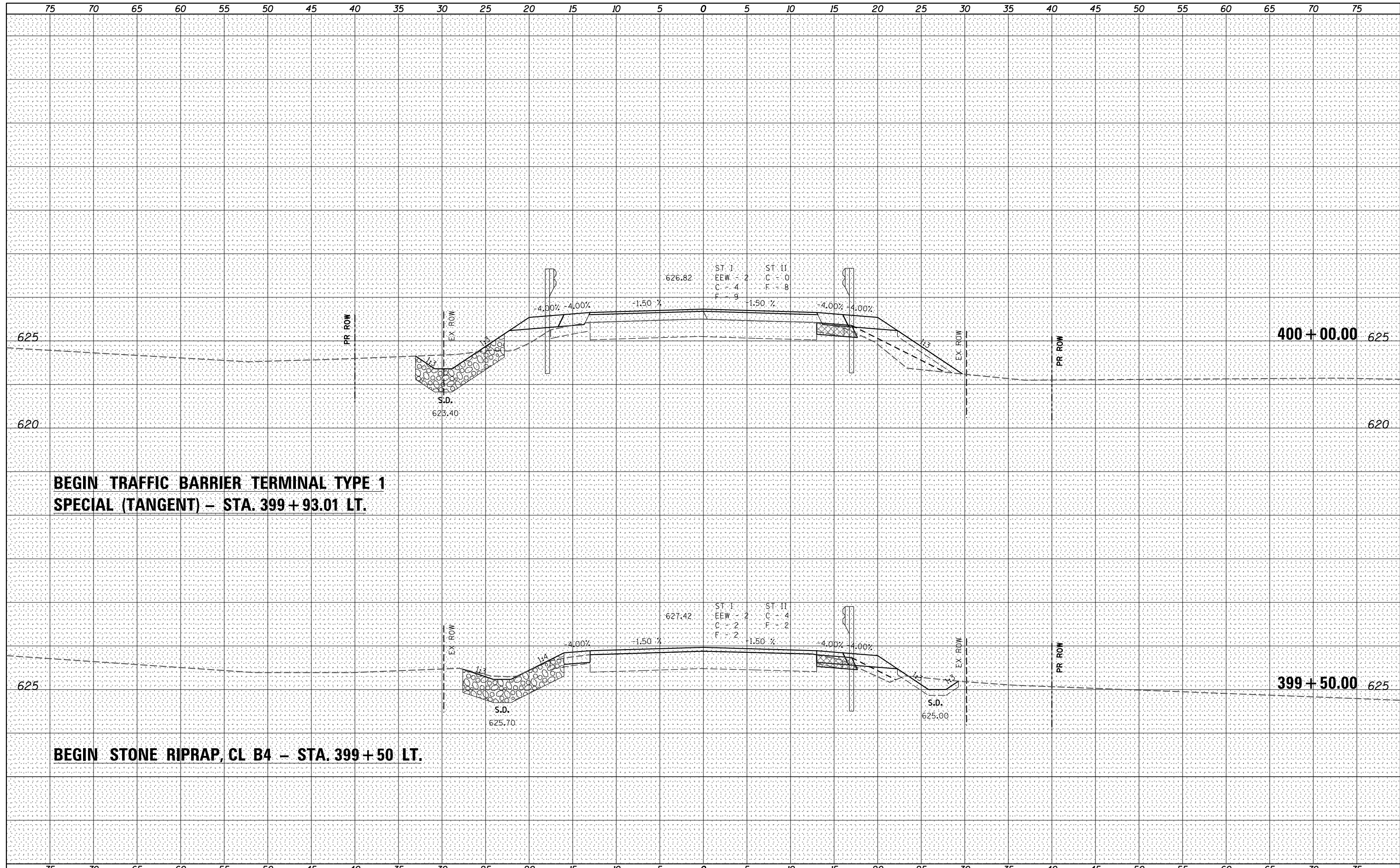
GENERAL NOTES

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

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.					574	12BR-1	FULTON	62	51	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.					SHT. 1 OF 2 CADD STD. 780001-D4					
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.					CONTRACT NO. 68732					
NOT TO SCALE												

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

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



**BEGIN TRAFFIC BARRIER TERMINAL TYPE 1
SPECIAL (TANGENT) - STA. 399 + 93.01 LT.**

BEGIN STONE RIPRAP, CL B4 - STA. 399 + 50 LT.

USER NAME - *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE - *SCALE*	CHECKED -	REVISED -
PLOT DATE - *DATE*	DATE -	REVISED -



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

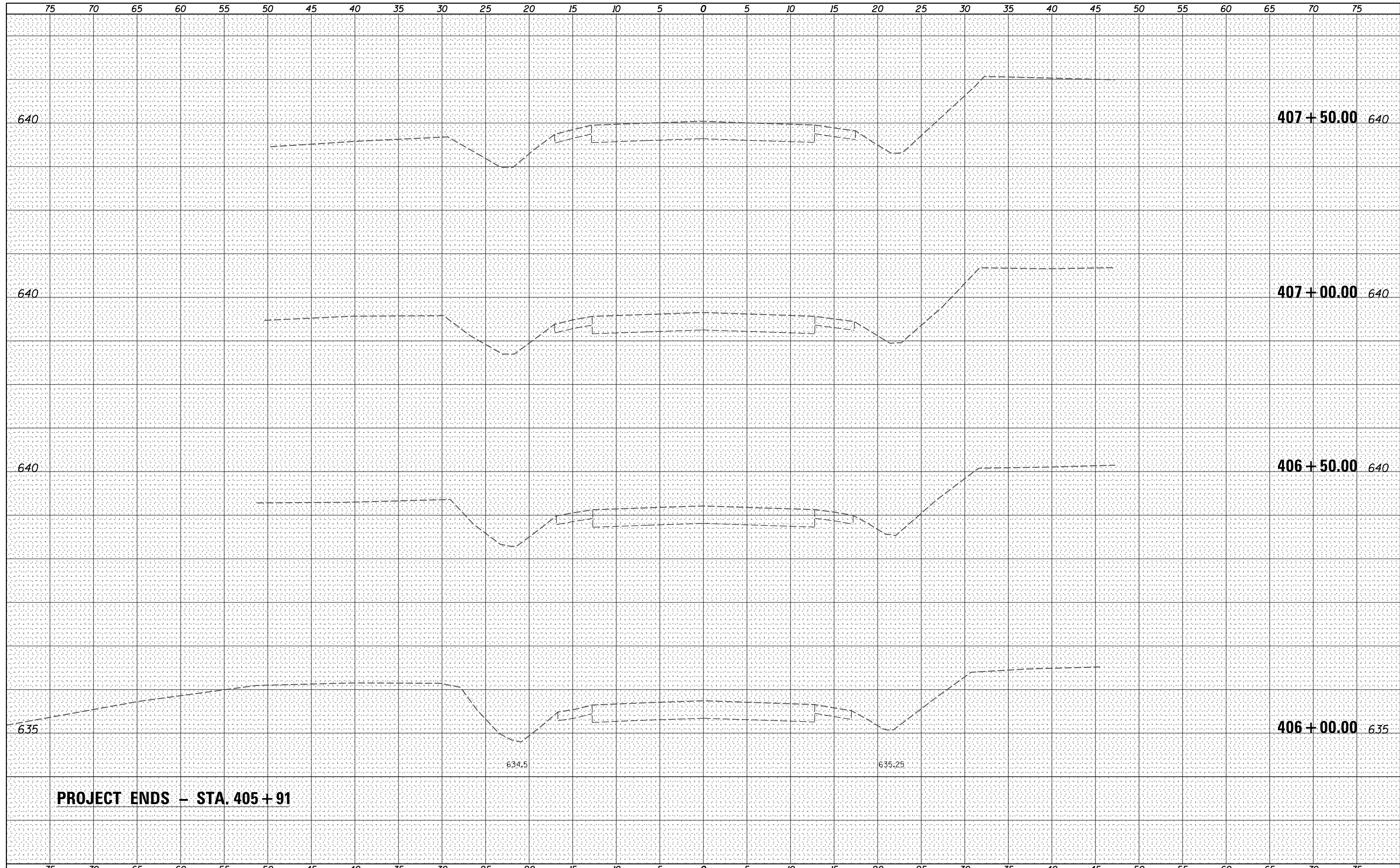
CROSS SECTIONS

SCALE: SHEET NO. 3 OF 10 SHEETS STA. 399+50.00 TO STA. 400+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	55
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



PROJECT ENDS - STA. 405 + 91

USER NAME - *USER*	DESIGNED -	REVISED -
PLOT SCALE - *SCALE*	DRAWN -	REVISED -
PLOT DATE - *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: SHEET NO. 10 OF 10 SHEETS STA. 406+00.00 TO STA. 407+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12BR-1	FULTON	62	62
CONTRACT NO. 68732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				