

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	1
FED. ROAD DIST. NO. 4	ILLINOIS	CONTRACT NO. 68091		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 665 (IL 116)
SECTION (144-B)BR
PROJECT NO. **ACF-0665 (009)**
FULTON COUNTY
C-94-111-00

D-94-077-00



LOCATION OF SECTION INDICATED THUS: - ■ -

INDEX OF SHEETS

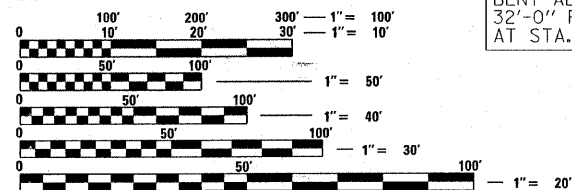
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.-3.	GENERAL NOTES
4.	STANDARDS AND UTILITY STATUS
5.-6.	SUMMARY OF QUANTITIES
7.-8.	SCHEDULE OF QUANTITIES
9.	TYPICAL CROSS SECTIONS
10.	PLAN AND PROFILE SHEET
11.	MISCELLANEOUS DETAILS
12.-13.	MAINTENANCE OF TRAFFIC
14.	PAVEMENT MARKINGS
15.	EROSION CONTROL PLAN AND NOTES
16.	WIDE LOAD DETOUR
17.-35.	STRUCTURE PLANS
36.	BORINGS
37.-48.	DISTRICT 4 CADD STANDARDS
49.-56.	CROSS SECTIONS - STAGE I
57.-64.	CROSS SECTIONS - STAGE II
65.-67.	EXISTING STRUCTURE PLANS

ILLINOIS DEPARTMENT OF TRANSPORTATION HIGHWAY STANDARDS
FOR LIST OF STANDARDS, SEE SHEET NO. 4

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (RURAL)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
ADT: (2000) ADT = 2400
PV: 90.5%
TRUCKS: 9.5%

SCALES:



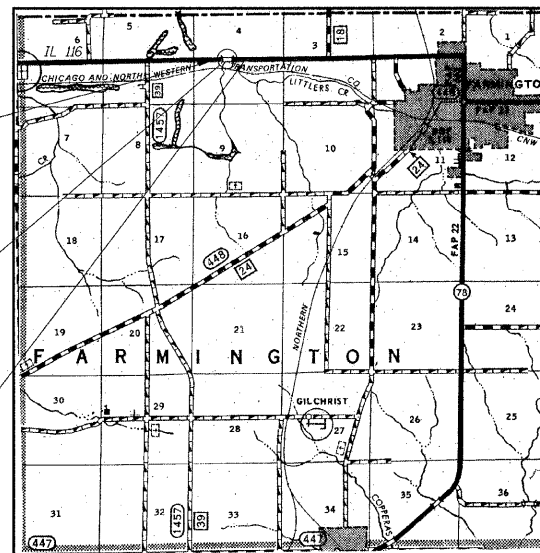
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER
PROJECT MANAGER

CONTRACT NO. 68091
CATALOG NO. 032287-00

TOWNSHIP: FARMINGTON
R. 4 E., 4TH P.M.



IMPROVEMENT BEGINS
STATION 567+05.00

PROPOSED SECTION (144-B)BR; S.N. 029-0066 OVER LITTLERS CREEK; SINGLE SPAN BULB T GIRDER BRIDGE WITH POURED DECK ON INTEGRAL PILE BENT ABUTMENTS; 101'-6" BK. - BK. ABUTS.; 32'-0" FC. - FC. PARAPETS; SKEW = 0° AT STA. 571+32.50

IMPROVEMENT ENDS
STATION 574+50.00

LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE

GROSS AND NET LENGTH OF SECTION = 745.00 FT. = 0.141 MI.
NET ROADWAY LENGTH = 643.50 FT. = 0.122 MI.
BRIDGE LENGTH = 101.50 FT. = 0.019 MI.

PROJECT ENGINEER: MAUREEN ADDIS

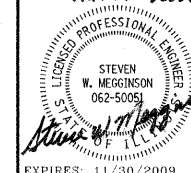
LIAISON ENGINEER: MIKE MOHAMED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug 14th 20 08
John E. Cannon
DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER
October 3, 20 08
Eric E. Harman
ENGINEER OF DESIGN AND ENVIRONMENT
October 3, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

DATE: Aug 15, 2008



HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

EXPIRES: 11/30/2009

PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	2
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 68091	

GENERAL NOTES

105.06 AVAILABILITY OF ELECTRONIC FILES

Micro Station and GEOPAK files of this project will be made available to the Contractor. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

105.07 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.

105.07 TREE REMOVAL - UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocations.

107.00 COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

107.09 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.

201.04 TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

204.00 ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * A location map showing the size limits and location of the use area
- * Signed property owner agreement form-D4 P10100
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 P10101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

250.01 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.

351.00 AGGREGATE SURFACE COURSE, TYPE B

Aggregate Surface Course, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

351.08 AGGREGATE FOR DRIVEWAY REPLACEMENT

The material used for construction of permanent aggregate driveways shall be gravel or crushed stone as directed by the Engineer, to replace in kind the existing aggregate driveways.

No additional compensation shall be provided for this requirement but shall be considered as included in the cost of the pay item for the aggregate as specified on the plans.

406.10 HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USES	HMA SURFACE	HMA LEVELING BINDER (MACHINE METHOD)	HMA BASE COURSE 10"	HMA SHOULDERS BOTTOM LIFT	HMA SHOULDERS TOP LIFT	INCIDENTAL HMA SURFACING
PG GRADE	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
MAX % RAP ALLOWABLE**	15%	15%	25%	30%	30%	15%
DESIGN AIR VOIDS	4% @ N50	4% @ N50	4% @ N50	4% @ N30	3% @ N30	4% @ N50
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 9.5	IL 19.0	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5
FRICTION AGGREGATE	MIXTURE D (DOLOMITE ONLY)	N.A.	N.A.	N.A.	MIXTURE C	MIXTURE D

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

406.18 BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the bituminous surface course.

443.04 REFLECTIVE CRACK CONTROL PLACEMENT


1. Reflective crack control treatment shall be placed on the existing surface.

542.00 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.

670.00 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.

 HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	GENERAL NOTES F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK SECTION (144-B) BR FULTON COUNTY
	ELGIN • SPRINGFIELD PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	3
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 68091	

JOB SPECIFIC GENERAL NOTES

THE THICKNESS OF 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-MIX ASPHALT MIXTURE IS PLACED.

IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS :

ALL HOT-MIX ASPHALT:	112 LBS / SQ YD / INCH OF THICKNESS
GRANULAR MATERIALS:	2.05 TONS / CU YD
BITUMINOUS MATERIALS PRIME COAT (ON PAVEMENT):	0.1 GAL / SQ YD
AGGREGATE PRIME COAT:	0.002 TONS / SQ YD
RIPRAP:	1.75 TONS / CU YD
NITROGEN FERT. NUTRIENT:	90 LB. / ACRE
PHOSPHORUS FERT. NUTRIENT:	90 LB. / ACRE
POTASSIUM FERT. NUTRIENT:	90 LB. / ACRE
AGRICULTURAL GROUND LIMESTONE	2.0 TON. / ACRE

TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

THE QUANTITY FOR SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE SURFACE COURSE AND THE LEVELING BINDER.

AT ALL LOCATIONS WHERE PROPOSED H.M.A. OR CONCRETE PAVEMENT JOINS AN EXISTING H.M.A. OR CONCRETE PAVEMENT, A FULL DEPT SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORE SLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN EXISTING UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, H.M.A. RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES WILL BE BROUGHT UP TO THE SAME ELEVATION.

THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 10 DAYS PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS. THE BUREAU OF OPERATIONS WILL THEN DETERMINE THE ACTUAL LIMITS TO BE STRIPED AS "NO PASSING" ZONES.

ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS. SAW CUT EDGES OF EXISTING H.M.A. SURFACE FLUSH WITH THE EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW H.M.A. SHOULDERS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.17 REGARDLESS IF TRACK MOUNTED OR WHEELED.

WATER QUALITY CERTIFICATION: THE CONTRACTOR MUST MEET THE REQUIREMENTS STIPULATED UNDER THE WATER QUALITY CERTIFICATION. SEE RESIDENT ENGINEER FOR A COPY OF THE CONDITIONS OF THE CERTIFICATION.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

HLR

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.P.S. CHECKED: S.W.M. DRAWN: D.T.M.

GENERAL NOTES
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	4
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 68091	

HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420401-06 BRIDGE APPROACH PAVEMENT
- 515001-02 NAME PLATE FOR BRIDGES
- 542401 METAL END SECTION FOR PIPE CULVERTS
- 609006-03 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
- 631031-06 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 701006-02 OFF ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600mm (24") FROM PAVEMENT EDGE
- 701011-01 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701321-09 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701901 TRAFFIC CONTROL DEVICES
- 704001-04 TEMPORARY CONCRETE BARRIER
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 601101 CONCRETE HEADWALL FOR PIPE DRAIN

DISTRICT STANDARDS

- 205001-D4 SLOPE STEPS DETAIL
- 280001-D4 TYPICAL APPLICATION OF SILT FILTER FENCE
- 281001-D4 RIPRAP DITCH FOR EROSION CONTROL
- 406101-D4 BUTT JOINTS (2 SHTS)
- 406201-D4 MAILBOX TURNOUTS FOR 3R PROJECTS
- 406301-D4 RURAL ENTRANCES FOR 3R PROJECTS (2 SHTS)
- 440001-D4 HOT-MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
- 630101-D4 GUARDRAIL EROSION CONTROL TREATMENTS) (2 SHTS)
- 667101-D4 PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I - TY.II

STATUS OF UTILITIES TO BE ADJUSTED DURING CONSTRUCTION

NAME AND ADDRESS OF UTILITY
MEDIACOM COMMUNICATIONS
 200 South Seventh Street
 Roanoke, IL 61561
 Mr. Dale Shaver

ROUTE : FAP 665
SECTION: (144-B)BR
COUNTY: FULTON
CONTRACT NO.: 68091
CATALOG NO.: 032287-00

REIMBURSE / ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
IL 116	55' RT	570+45 +/-	POLE	DITCH	RELOCATE

AMEREN CILCO (ELECTRIC)

300 Liberty Street
 Peoria, IL 61602
 Ms. Sue Salrin

REIMBURSE / ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
IL 116	55' RT	570+45 +/-	ELECTRIC POLE	DITCH	RELOCATE

AT & T ILLINOIS

2315 Knoxville Avenue
 Peoria, IL 61604
 Mr. Robert Shoreack

REIMBURSE / ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
IL 116	LT.7' EOP	569+00 TO 575+00	BURIED TELEPHONE	RIP RAP	RELOCATE

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
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 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-37-0003-1 DATE: 08/13/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

STANDARDS AND UTILITY STATUS
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	QUANTITY	HBP FUNDING 80% FEDERAL 20% STATE ROADWAY 1000	HBP FUNDING 80% FEDERAL 20% STATE SN 029-0066 X081-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	168	168	0
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	68	68	0
20200100	EARTH EXCAVATION	CU YD	899	899	0
20300100	CHANNEL EXCAVATION	CU YD	2210	2210	0
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	215	0	215
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1049	1049	0
25000200	SEEDING, CLASS 2	ACRE	0.29	0.29	0
25000350	SEEDING, CLASS 7	ACRE	0.29	0.29	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25	0
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.58	0.58	0
25100115	MULCH, METHOD 2	ACRE	0.29	0.29	0
25100630	EROSION CONTROL BLANKET	SQ YD	1015	1015	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	116	116	0
28000300	TEMPORARY DITCH CHECKS	EACH	9	9	0
28000400	PERIMETER EROSION BARRIER	FOOT	1305	1305	0
28000500	INLET AND PIPE PROTECTION	EACH	1	1	0
28100207	STONE RIPRAP, CLASS A4	TON	1570	231	1339
28200200	FILTER FABRIC	SQ YD	1901	297	1604
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	242	242	0
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	993	993	0
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	34	34	0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	139	139	0
40600300	AGGREGATE (PRIME COAT)	TON	3	3	0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	99	99	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	134	134	0
40600990	TEMPORARY RAMP	SQ YD	96	96	0
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	117	117	0
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	222	222	0

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	QUANTITY	HBP FUNDING 80% FEDERAL 20% STATE ROADWAY 1000	HBP FUNDING 80% FEDERAL 20% STATE SN 029-0066 X081-2A
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44	44	0
44000100	PAVEMENT REMOVAL	SQ YD	536	536	0
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	68	68	0
44000400	GUTTER REMOVAL	FOOT	1406	1406	0
44002600	GUTTER OUTLET REMOVAL	FOOT	116	116	0
44004000	PAVED DITCH REMOVAL	FOOT	6	6	0
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1144	1144	0
48203009	HOT-MIX ASPHALT SHOULDERS, 3"	SQ YD	695	695	0
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	301	301	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1
50105220	PIPE CULVERT REMOVAL	FOOT	34	34	0
50200100	STRUCTURE EXCAVATION	CU YD	402	0	402
50300225	CONCRETE STRUCTURES	CU YD	40	0	40
50300255	CONCRETE SUPERSTRUCTURE	CU YD	153.5	0	153.5
50300260	BRIDGE DECK GROOVING	SQ YD	561	222	339
50300280	CONCRETE ENCASEMENT	CU YD	4.2	0	4.2
50300300	PROTECTIVE COAT	SQ YD	669	222	447
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	599	0	599
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32040	0	32040
50800515	BAR SPLICERS	EACH	382	0	382
51201610	FURNISHING STEEL PILES HP12X63	FOOT	260	0	260
5120305	DRIVING PILES	FOOT	260	0	260
51203610	TEST PILE STEEL HP12X63	EACH	2	0	2
51204650	PILE SHOES	EACH	12	0	12
51500100	NAME PLATES	EACH	1	0	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	34	34	0
54213867	STEEL END SECTIONS 12"	EACH	2	2	0
54213870	STEEL END SECTIONS 15"	EACH	2	2	0

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SUMMARY OF QUANTITIES
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	QUANTITY	HBP FUNDING 80% FEDERAL 20% STATE ROADWAY 1000	HBP FUNDING 80% FEDERAL 20% STATE SN 029-0066 X081-2A
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	102	0	102
60100945	PIPE DRAINS 12"	FOOT	74	74	0
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	170	0	170
60900240	TYPE C INLET BOX, STANDARD 609006	EACH	2	2	0
60900515	CONCRETE THRUST BLOCKS	EACH	2	2	0
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	275	275	0
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	0
63200310	GUARDRAIL REMOVAL	FOOT	400	400	0
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	2	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	0
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	3	3	0
67100100	MOBILIZATION	L SUM	1	1	0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	0
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	160	160	0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4818	4818	0
70300280	TEMPORARY PAVEMENT MARKING- LINE 24"	FOOT	22	22	0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1965	1965	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	500	500	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425	425	0
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2600	2600	0
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9	0
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2	2	0

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	QUANTITY	HBP FUNDING 80% FEDERAL 20% STATE ROADWAY 1000	HBP FUNDING 80% FEDERAL 20% STATE SN 029-0066 X081-2A
78200405	GUARDRAIL MARKERS	EACH	11	11	0
78200500	BARRIER WALL MARKERS	EACH	21	21	0
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	705	705	0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11	0
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	124	124	0
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	860	0	860
▲ X2503100	MOWING	UNIT	5	5	
XB620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1	1	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	0
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	0
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	0
+ Z0076600	TRAINEES	HOUR	500	500	

+ FUNDING CODE Y080

▲ NP 100% STATE

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-37-0003-1 DATE: 08/13/08
DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

SUMMARY OF QUANTITIES
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

ROADWAY SCHEDULE																				
LOCATION	BRIDGE APPROACH PAVEMENT	BRIDGE DECK GROUING	PROTECTIVE COAT	FLEXIBLE PAVEMENT CONNECTOR	SUB-BASE GRANULAR MATERIAL TYPE A 4'	HOT-MIX ASPHALT SURFACE CSE MIX "D", N50 1.5'	LEVELING BINDER (MM) N50 1.5'	HOT-MIX ASPHALT BASE COURSE 10'	HOT-MIX ASPHALT SHOULDERS 3'	HOT-MIX ASPHALT SHOULDERS 6'	GUARDRAIL AGGREGATE EROSION CONTROL	HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT	HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH	TEMPORARY RAMP	BITUMINOUS MATERIAL PRIME COAT	AGGREGATE PRIME COAT	STRIP REFLECTIVE CRACK CONTROL	AGGREGATE SURFACE COURSE TYPE B 6"	PAVEMENT REMOVAL	
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD	TON	SQ YD	SQ YD	SQ YD	GAL	TON	FOOT	TON	SQ YD	
STA 567+05 TO STA 574+50																				
STAGE I	104	104	104	20	114			644		200	65			34					247	
STAGE II	118	118	118	24	128	117	99	349	695	101	59	134	68	62	139	3	1144		289	
ENTRANCE LT STA 569+54																		34		
TOTAL	222	222	222	44	242	117	99	993	695	301	124	134	68	96	139	3	1144	34	536	

MAINTENANCE OF TRAFFIC								
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL MARKERS	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
STAGE I								
567+05 TO 574+50.00				1	6	2		
568+82.50 TO 573+82.50	500		21					
STAGE II								
567+05 TO 574+50							2	2
567+70 TO 573+45		425						
TOTAL	500	425	21	1	6	2	2	2

PERMANENT SURVEY MARKER TYPE I	
LOCATION	EACH
FAP 665 IL 116	
CL. STA. 567+05.00	1
CL. STA. 574+50.00	1
TOTAL	2

GUTTER REMOVAL	
LOCATION	FOOT
FAP 665 IL 116	
LT. STA. 567+05.00 TO LT. STA. 574+08.00	703
RT. STA. 567+05.00 TO RT. STA. 574+08.00	703
TOTAL	1406

GUTTER OUTLET REMOVAL	
LOCATION	FOOT
FAP 665 IL 116	
LT. STA. 574+08.00 TO LT. STA. 574+66.00	58
RT. STA. 574+08.00 TO RT. STA. 574+66.00	58
TOTAL	116

PAVED DITCH REMOVAL	
LOCATION	FOOT
FAP 665 IL 116	
LT. STA. 569+40.00 TO LT. STA. 569+46.00	6
TOTAL	6

GUARDRAIL TABULATION						
LOCATION	STEEL PLATE BEAM GUARDRAIL TYPE A	TRAFFIC BARRIER TERMINAL		TERMINAL MARKER DIRECT APPLIED	GUARDRAIL MARKERS	GUARDRAIL REMOVAL
		TYPE 1 SPECIAL (TANGENT)	TYPE 6			
	FOOT	EACH	EACH	EACH	EACH	FOOT
RT. STA. 568+76.10 TO RT. STA. 570+84.25	112.5	1	1	1		
LT. STA. 569+76.10 TO LT. STA. 570+84.25	12.5	1	1	1		
RT. STA. 571+80.75 TO RT. STA. 573+13.90	37.5	1	1	1		
LT. STA. 571+80.75 TO LT. STA. 573+88.90	112.5	1	1	1		
RT. STA. 569+80.00 TO RT. STA. 571+05.00						125
LT. STA. 570+30.00 TO LT. STA. 571+05.00						75
RT. STA. 571+60.00 TO RT. STA. 571+85.00						25
LT. STA. 571+60.00 TO LT. STA. 573+35.00						175
RT. STA. 568+76.10 TO RT. STA. 573+26.40					6	
LT. STA. 569+76.10 TO LT. STA. 573+88.90					5	
TOTAL	275	4	4	4	11	400

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 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

SCHEDULE OF QUANTITIES
 F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
 SECTION (144-B) BR
 FULTON COUNTY

SEEDING TABULATION								
LOCATION	SEEDING CLASS 2	SEEDING CLASS 7	TEMPORARY EROSION CONTROL SEEDING	NITROGEN FERTILIZER NUTRIENT 90 LBS/ACRE	PHOSPHORUS FERTILIZER NUTRIENT 90 LBS/ACRE	POTASSIUM FERTILIZER NUTRIENT 90 LBS/ACRE	AGRICULTURAL GROUND LIMESTONE 2 TONS/ACRE	MULCH METHOD 2
	ACRES	ACRES	LBS	LBS	LBS	LBS	TONS	ACRES
LT STA 567+05 TO LT STA 570+70	0.06	0.06	24	5	5	5	0.12	0.06
RT STA 567+05 TO RT STA 570+70	0.08	0.08	32	7	7	7	0.16	0.08
LT STA 571+80 TO LT STA 574+50	0.07	0.07	28	6	6	6	0.14	0.07
RT STA 571+80 TO RT STA 574+50	0.08	0.08	32	7	7	7	0.16	0.08
TOTAL	0.29	0.29	116	25	25	25	0.58	0.29

* 100 LBS/ACRE FOR 4 APPLICATIONS

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE(25%)	% USED	EARTH EXCAVATION AVAILABLE	TOPSOIL FURNISH AND PLACE 4"	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD		CUBIC YARD	SQ YD	CUBIC YARD	CUBIC YARD
STAGE I							
STA. 567+05 TO STA. 575+00	679	509	100.00%	509	658	183	326
STAGE II							
STA. 567+05 TO STA. 575+00	220	106	100.00%	106	391	147	-41
CHANNEL EXCAVATION							
ENTRANCES	2210	1657	0.00%	0		5	0
TOTAL	3109*	2272		615	1049	335	280

*-TOTAL EARTH EXCAVATION EXCLUDES CHANNEL EXCAVATION QUANTITY

WASTE = 280 CU YD

RIPRAP AND FILTER FABRIC			
LOCATION	STONE RIPRAP CLASS A-4	STONE RIPRAP	FILTER FABRIC
		TONS	SQ YD
FAP 665 IL 116			
LT. STA. 570+18.00 TO LT. STA. 571+35.00		121	156
RT. STA. 569+95.00 TO RT. STA. 570+90.00		99	127
RT. STA. 571+97.25		5.5	7
LT. STA. 571+97.25		5.5	7
TOTAL		231	297

CULVERT SUMMARY							
LOCATION	TYPE C	PIPE	CONCRETE	STEEL	STEEL	PIPE CULVERT	PIPE
	INLET BOX	DRAIN	THRUST	END	END	CLASS D	CULVERT
	STANDARD 609006	12"	BLOCK	SECTIONS	SECTIONS	TYPE 1 (C.S.C.P.)	REMOVAL
				12"	15"	15"	
	EACH	FEET	EACH	EACH	EACH	FOOT	FOOT
FAP 665 IL 116							
LT STA. 569+54					2	34	34
RT. STA. 571+97.25	1	38	1	1			
LT. STA. 571+97.25	1	36	1	1			
TOTAL PROJECT	2	74	2	2	2	34	34

PERIMETER EROSION BARRIER	
LOCATION	FOOT
FAP 665 IL 116	
RT. STA. 567+05 TO RT. STA. 571+10	390
LT. STA. 567+05 TO LT. STA. 569+30	225
LT. STA. 569+70 TO LT. STA. 571+10	155
RT. STA. 571+80 TO RT. STA. 574+50	260
LT. STA. 571+80 TO LT. STA. 574+50	275
TOTAL	1305

EROSION CONTROL BLANKET	
LOCATION	SQ YD
FAP 665 IL 116	
RT. STA. 568+50 TO RT. STA. 570+72	376
LT. STA. 569+66 TO LT. STA. 570+70	117
RT. STA. 571+83 TO RT. STA. 573+50	226
LT. STA. 571+83 TO LT. STA. 574+00	296
TOTAL	1015

TEMPORARY DITCH CHECKS	
LOCATION	EACH
FAP 665 IL 116	
RT. STA. 569+95	1
LT. STA. 570+18	1
RT. STA. 570+25	1
RT. STA. 570+50	1
LT. STA. 570+50	1
RT. STA. 570+75	1
LT. STA. 570+75	1
RT. STA. 571+00	1
LT. STA. 571+00	1
TOTAL	9

INLET AND PIPE PROTECTION	
LOCATION	EACH
FAP 665 IL 116	
LT. STA. 569+35	1
TOTAL	1

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNITS
FAP 665 IL 116	
40' RT. STA. 570+55	12
53' LT. STA. 570+58	7
45' LT. STA. 570+61	15
34' RT. STA. 570+63	10
53' LT. STA. 570+63	14
55' LT. STA. 570+73	7
31' RT. STA. 570+83	8
54' LT. STA. 570+91	6
51' LT. STA. 571+05	12
66' LT. STA. 571+10	7
54' LT. STA. 571+10	12
57' LT. STA. 571+11	12
72' LT. STA. 571+19	12
39' LT. STA. 571+80	12
41' LT. STA. 571+89	12
39' LT. STA. 571+90	10
TOTAL	168

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNITS
FAP 665 IL 116	
39' RT. STA. 571+01	16
48' RT. STA. 571+07	16
41' LT. STA. 571+89	18
39' LT. STA. 571+90	18
TOTAL	68

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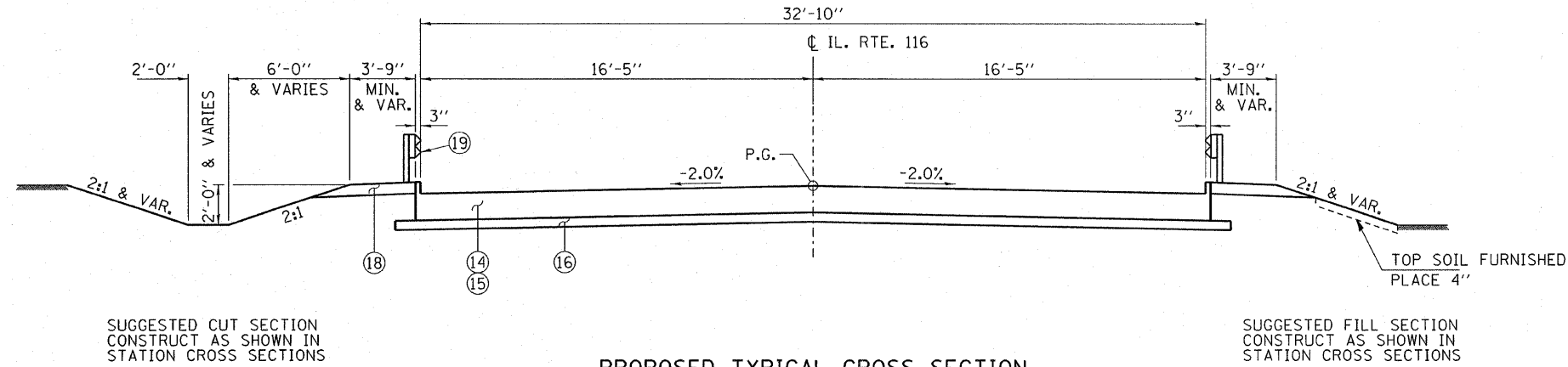
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

SCHEDULE OF QUANTITIES
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	9
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 68091		

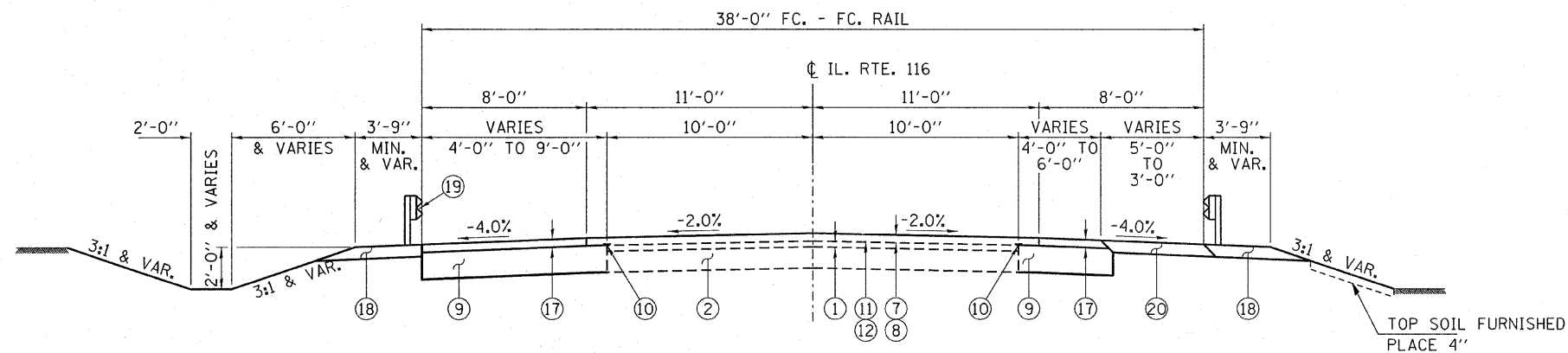
LEGEND

- ① EXISTING BITUMINOUS PAVEMENT (3" +/-)
- ② EXISTING AGGREGATE BASE COURSE STA 570+00 TO STA 574+00
- ③ EXISTING TYPE A GUTTER
- ④ EXISTING STEEL PLATE BEAM GUARDRAIL
- ⑤ EXISTING EARTH SHOULDERS
- ⑥ EXISTING PCC/ HMA PAVEMENT
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (1 1/2" THICKNESS MIN.)
- ⑧ LEVELING BINDER (MACHINE METHOD) N50 (1.5" THICKNESS)
- ⑨ HOT-MIX ASPHALT BASE COURSE (10" THICKNESS)
- ⑩ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑪ BITUMINOUS MATERIALS (PRIME COAT)
- ⑫ AGGREGATE (PRIME COAT)
- ⑬ HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- ⑭ BRIDGE APPROACH PAVEMENT
- ⑮ BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
- ⑯ SUB-BASE GRANULAR MATERIAL, TYPE A 4" (SEE STD 420401)
- ⑰ HOT-MIX ASPHALT SHOULDERS 3"
- ⑱ GUARDRAIL AGGREGATE EROSION CONTROL
- ⑲ STEEL PLATE BEAM GUARDRAIL TYPE A
- ⑳ HOT-MIX ASPHALT SHOULDERS 6"



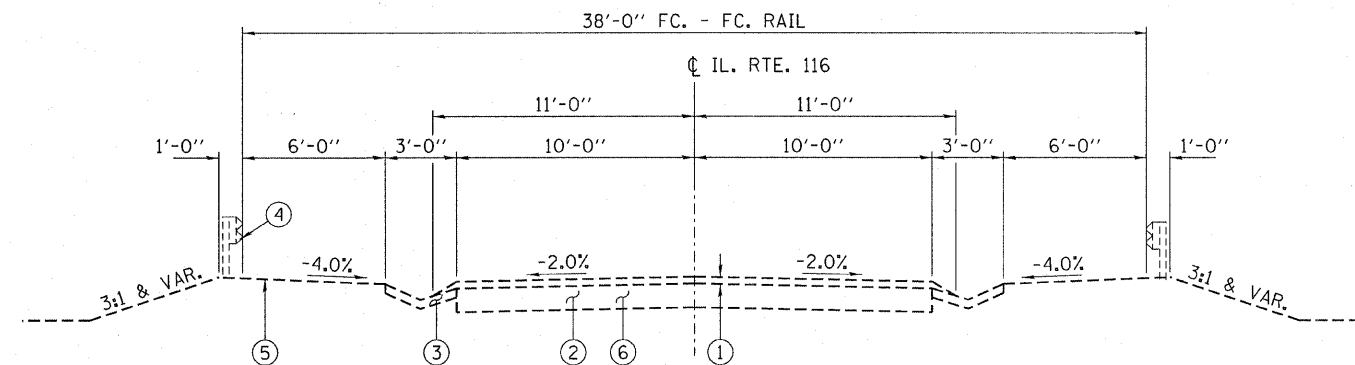
PROPOSED TYPICAL CROSS SECTION

STA. 570+45.75 TO STA. 570+51.75 (FLEXIBLE PAVEMENT CONNECTOR)
 STA. 570+51.75 TO STA. 570+81.75 (BRIDGE APPROACH PAVEMENT)
 STA. 571+83.25 TO STA. 572+13.25 (BRIDGE APPROACH PAVEMENT)
 STA. 572+13.25 TO STA. 572+19.25 (FLEXIBLE PAVEMENT CONNECTOR)



PROPOSED TYPICAL CROSS SECTION

STA. 567+05.00 TO STA. 570+45.75
 STA. 572+19.25 TO STA. 574+50.00



EXISTING TYPICAL CROSS SECTION

STA. 567+00 TO STA. 577+00

PAVEMENT DESIGN	
DESIGN PERIOD:	20 YEARS 80,000 LB. LOAD LIMIT
STRUCTURAL DESIGN TRAFFIC (S.D.T.):	2984 YEAR 2016
P.V. =	2536 S.U. = 209 M.U. = 239
ROAD/STREET CLASSIFICATION: CLASS II ROAD	
PERCENT OF S.D.T. IN DESIGN LANE	
P =	50% S = 50% M = 50%
TRAFFIC FACTOR = ACTUAL TF 1.16 AC TYPE 64-22	
MINIMUM TF	
PG GRADE: BINDER =	64-22 SURFACE = 64-22
SUBGRADE SUPPORT RATING:	
SSR= POOR (STA. 570+05 TO STA. 574+00)	

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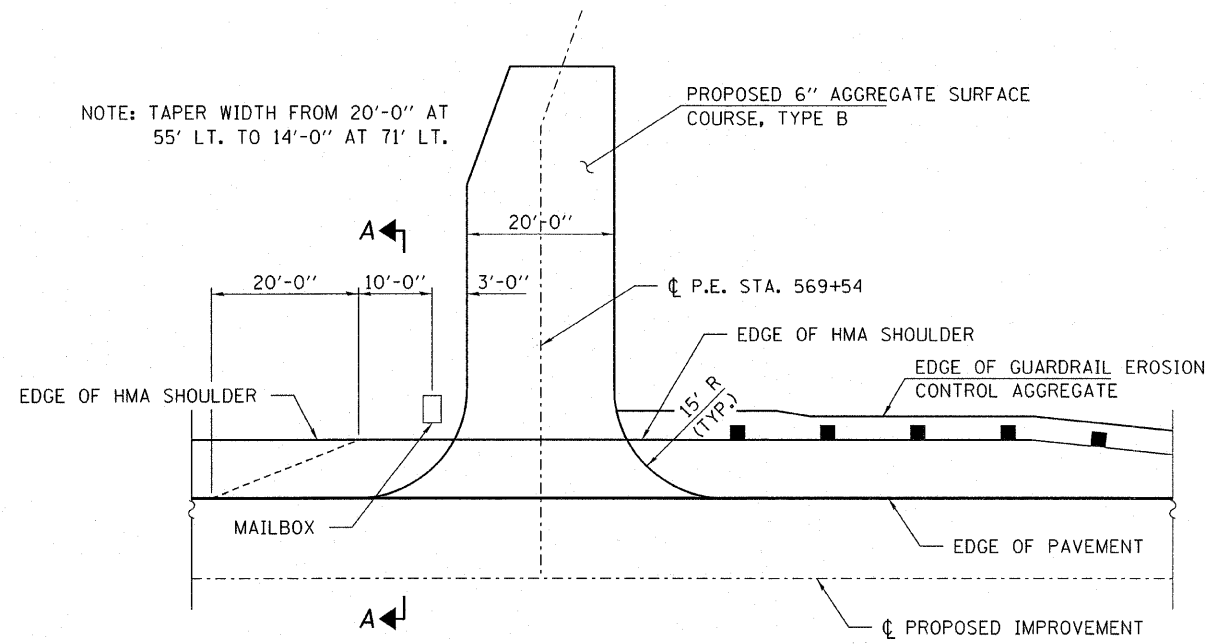
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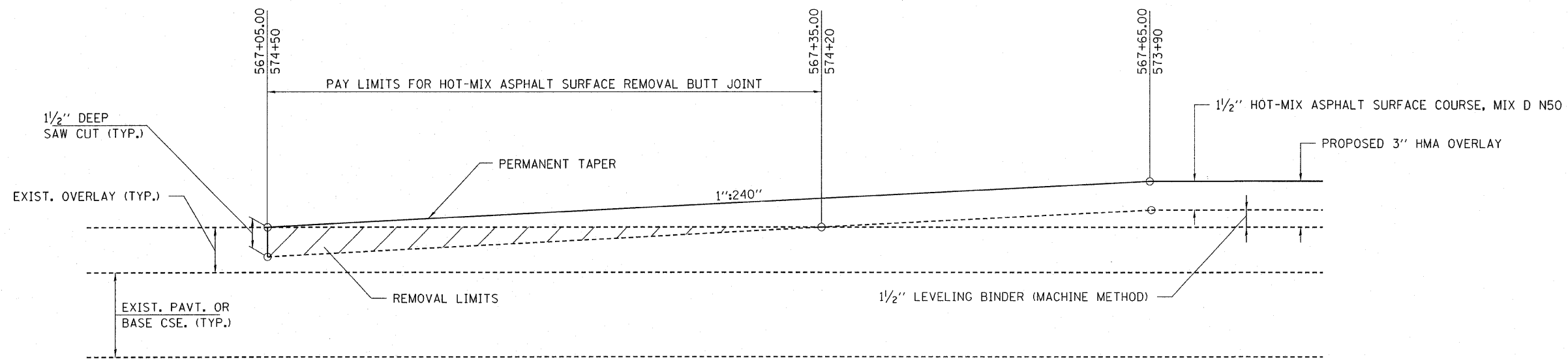
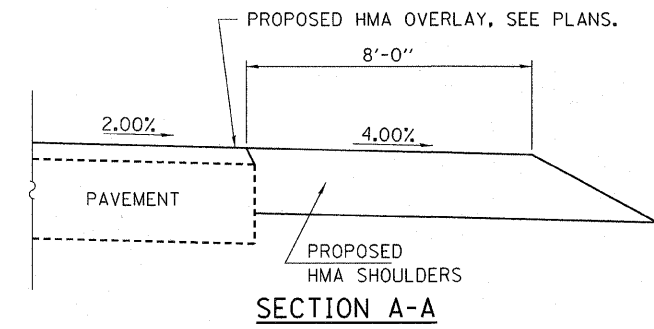
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

TYPICAL CROSS SECTIONS
 F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
 SECTION (144-B) BR
 FULTON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	11
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 68091			



PRIVATE ENTRANCE DETAIL
STA. 569+54



PAVEMENT TRANSITION DETAIL

HAMPTON, LENZINI & RENWICK, INC.
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LAND SURVEYORS

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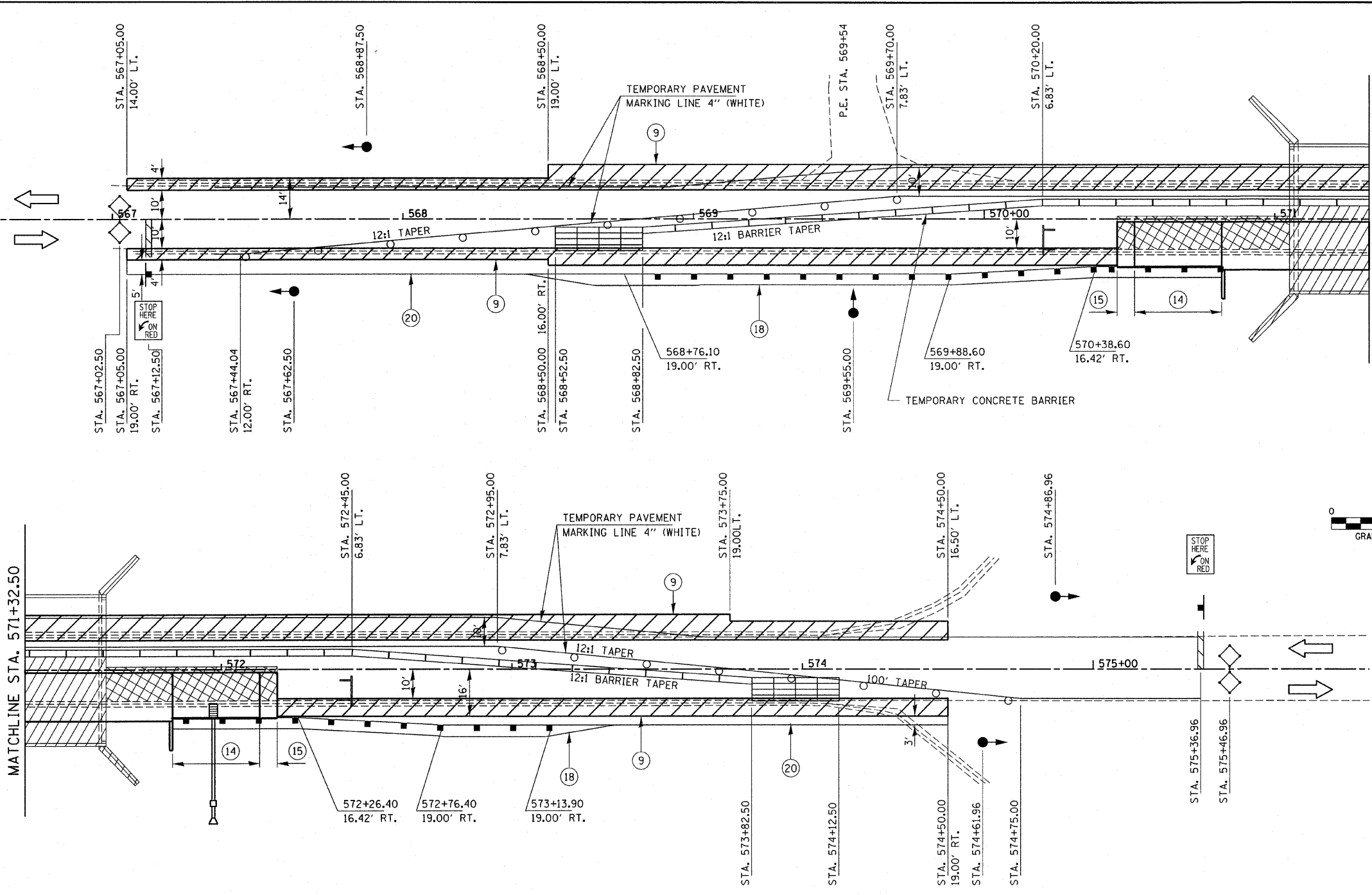
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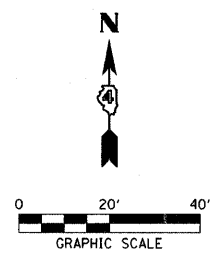
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

MISCELLANEOUS DETAILS
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	12
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 68091	



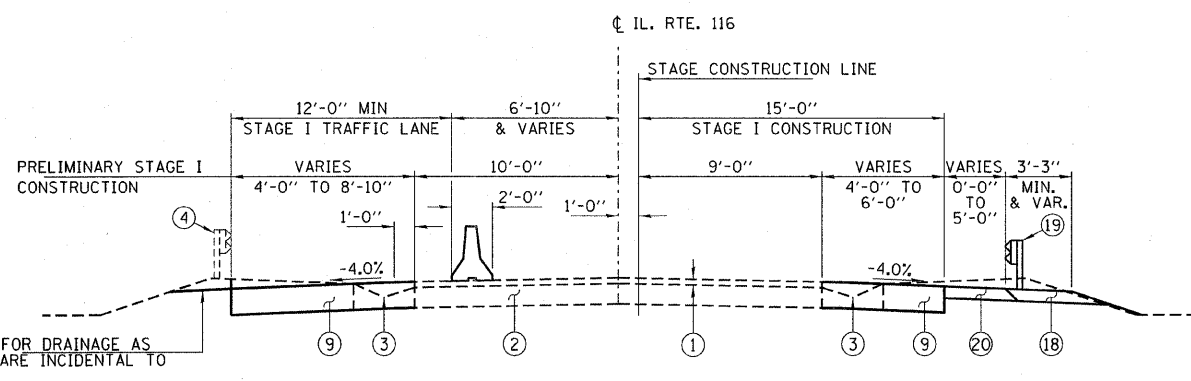
MATCHLINE STA. 571+32.50



- LEGEND**
- ① EXISTING BITUMINOUS PAVEMENT (3"+/-)
 - ② EXISTING AGGREGATE BASE COURSE (STA 570+00 TO STA 574+00)
 - ③ EXISTING TYPE A GUTTER
 - ④ EXISTING STEEL PLATE BEAM GUARDRAIL
 - ⑤ EXISTING EARTH SHOULDERS
 - ⑥ EXISTING PCC/ HMA PAVEMENT
 - ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (1/2" THICKNESS MIN.)
 - ⑧ LEVELING BINDER (MACHINE METHOD) N50 (1.5" THICKNESS)
 - ⑨ HOT-MIX ASPHALT BASE COURSE (10" THICKNESS)
 - ⑩ STRIP REFLECTIVE CRACK CONTROL TREATMENT
 - ⑪ BITUMINOUS MATERIALS (PRIME COAT)
 - ⑫ AGGREGATE (PRIME COAT)
 - ⑬ HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
 - ⑭ BRIDGE APPROACH PAVEMENT
 - ⑮ BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
 - ⑯ SUB-BASE GRANULAR MATERIAL TYPE A 4" SEE STD 420401
 - ⑰ HOT-MIX ASPHALT SHOULDERS 3"
 - ⑱ GUARDRAIL AGGREGATE EROSION CONTROL
 - ⑲ STEEL PLATE BEAM GUARDRAIL TYPE A
 - ⑳ HOT-MIX ASPHALT SHOULDERS 6"

- BITUMINOUS WIDENING
- BRIDGE REMOVAL
- PAVEMENT REMOVAL
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW)
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)

- GENERAL NOTES**
- FINAL SURFACE COURSE TO BE CONSTRUCTED AFTER STAGE II BARRIER IS REMOVED. PARAPETS SHALL HAVE GUARDRAIL ATTACHED PRIOR TO SWITCHING TRAFFIC.
 - ONE ADDITIONAL SIGNAL HEAD, STOP LINE, MICROWAVE DETECTOR, AND ADDITIONAL PHASE WILL ALSO BE REQUIRED FOR THE ENTRANCE LT. STA. 569+54. THE COST FOR THESE ADDITIONAL ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. ACCESS TO THE ENTRANCE LT. STA. 569+54 IS TO BE PROVIDED AT ALL TIMES.
 - ADDITIONAL REQUIREMENTS AND FURTHER INFORMATION FOR MAINTAINING TRAFFIC WITHIN THE PROJECT AREA SHALL BE AS INDICATED ON IDOT STANDARD 701321.
 - EXISTING PAVEMENT WIDTH VARIES ALONG PROPOSED C. ADJUST PROPOSED REMOVAL WIDTH ACCORDINGLY.
 - SEE SHEET 7 FOR QUANTITIES.



STAGE I TYPICAL CROSS SECTION
 STA. 567+05.00 TO STA. 570+45.75
 STA. 572+19.25 TO STA. 574+50.00

CUT TRENCH BETWEEN GUARDRAIL POSTS FOR DRAINAGE AS DIRECTED BY THE ENGINEER. TRENCHES ARE INCIDENTAL TO EARTH EXCAVATION

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

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 (217) 546-3400

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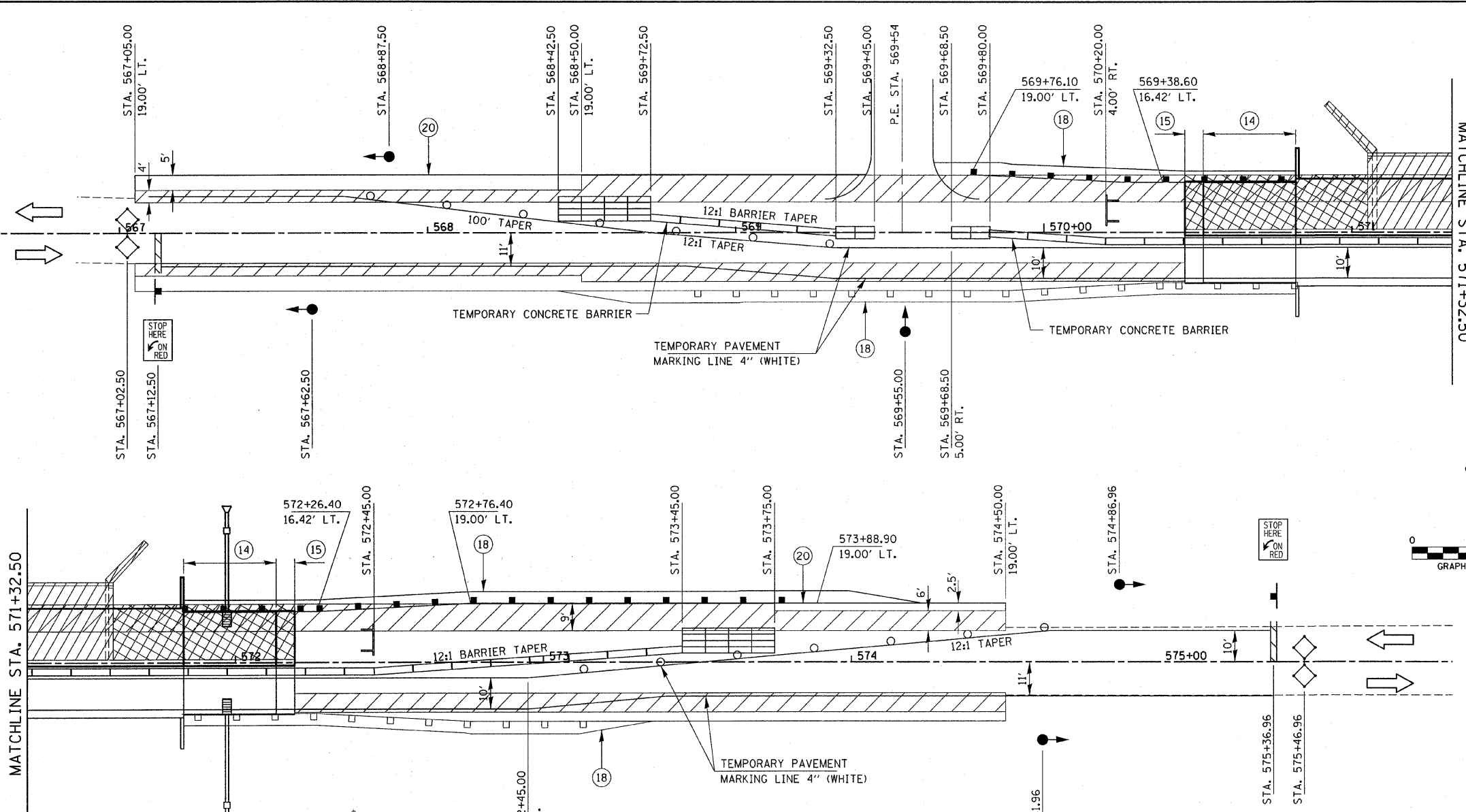
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

STAGE I CONSTRUCTION

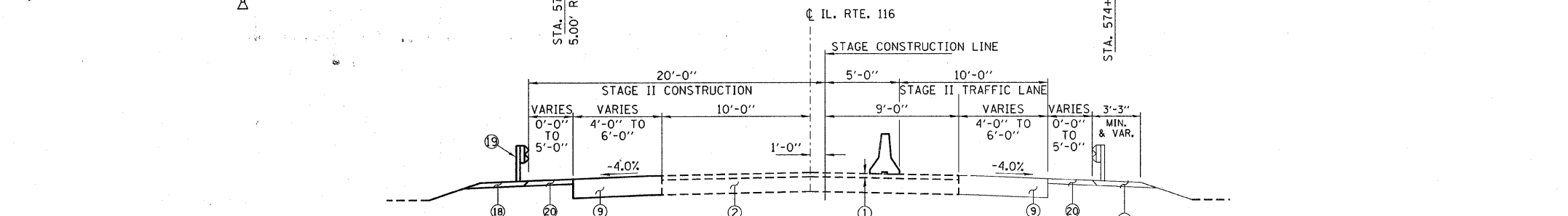
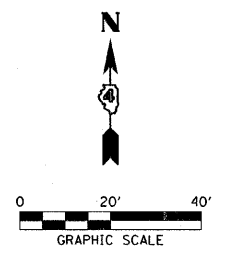
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
 SECTION (144-B) BR
 FULTON COUNTY
 STATION 571+32.50
 STRUCTURE NO. 029-0066

PLOT DATE: 9/9/2008 FILE NAME: 37003-sht-stageconstruction.dgn

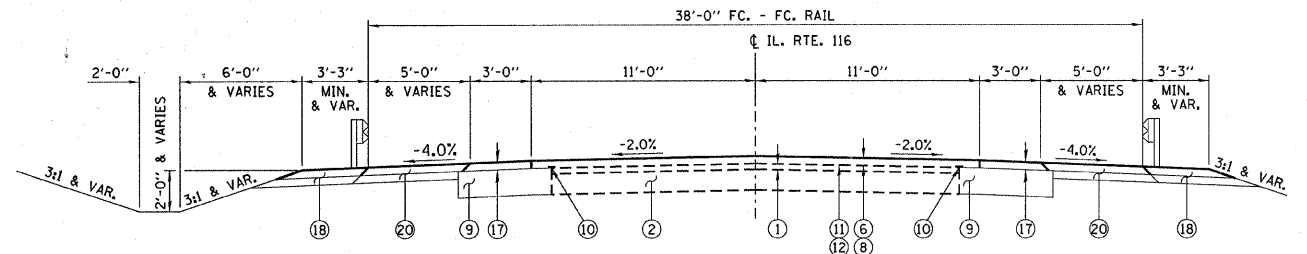
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	13
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 68091			



- LEGEND**
- ① EXISTING BITUMINOUS PAVEMENT (3" +/-)
 - ② EXISTING AGGREGATE BASE COURSE (STA 570+00 TO STA 574+00)
 - ③ EXISTING TYPE A GUTTER
 - ④ EXISTING STEEL PLATE BEAM GUARDRAIL
 - ⑤ EXISTING EARTH SHOULDERS
 - ⑥ EXISTING PCC/ HMA PAVEMENT
 - ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (1 1/2" THICKNESS MIN.)
 - ⑧ LEVELING BINDER (MACHINE METHOD) N50 (1.5" THICKNESS)
 - ⑨ HOT-MIX ASPHALT BASE COURSE (10" THICKNESS)
 - ⑩ STRIP REFLECTIVE CRACK CONTROL TREATMENT
 - ⑪ BITUMINOUS MATERIALS (PRIME COAT)
 - ⑫ AGGREGATE (PRIME COAT)
 - ⑬ HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
 - ⑭ BRIDGE APPROACH PAVEMENT
 - ⑮ BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
 - ⑯ SUB-BASE GRANULAR MATERIAL TYPE A 4" SEE STD 420401
 - ⑰ HOT-MIX ASPHALT SHOULDERS 3"
 - ⑱ GUARDRAIL AGGREGATE EROSION CONTROL
 - ⑲ STEEL PLATE BEAM GUARDRAIL TYPE A
 - ⑳ HOT-MIX ASPHALT SHOULDERS 6"



STAGE II TYPICAL CROSS SECTION
 STA. 567+05.00 TO STA. 570+45.75
 STA. 572+19.25 TO STA. 574+50.00



FINAL TYPICAL CROSS SECTION
 STA. 567+05.00 TO STA. 570+45.75
 STA. 572+19.25 TO STA. 574+50.00

- GENERAL NOTES**
1. FINAL SURFACE COURSE TO BE CONSTRUCTED AFTER STAGE II BARRIER IS REMOVED. PARAPETS SHALL HAVE GUARDRAIL ATTACHED PRIOR TO SWITCHING TRAFFIC.
 2. ONE ADDITIONAL SIGNAL HEAD, STOP LINE, MICROWAVE DETECTOR, AND ADDITIONAL PHASE WILL ALSO BE REQUIRED FOR THE ENTRANCE LT. STA. 569+54. THE COST FOR THESE ADDITIONAL ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. ACCESS TO THE ENTRANCE LT. STA. 569+54 IS TO BE PROVIDED AT ALL TIMES.
 3. ADDITIONAL REQUIREMENTS AND FURTHER INFORMATION FOR MAINTAINING TRAFFIC WITHIN THE PROJECT AREA SHALL BE AS INDICATED ON IDOT STANDARD 701321.
 4. EXISTING PAVEMENT WIDTH VARIES ALONG PROPOSED C. ADJUST PROPOSED PAVEMENT REMOVAL WIDTH ACCORDINGLY.
 5. SEE SHEET 7 FOR QUANTITIES.

HAMPTON, LENZINI & RENWICK, INC.
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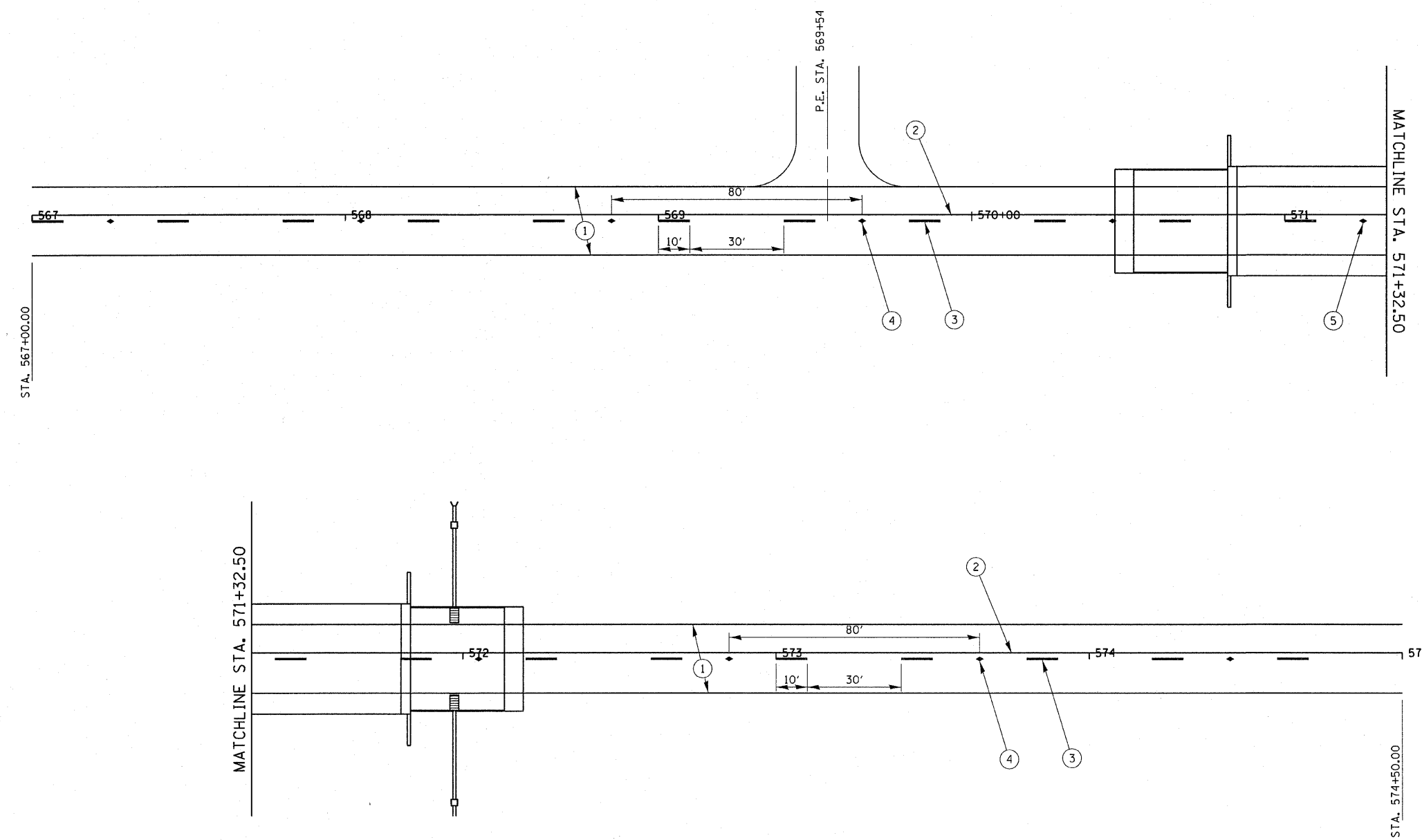
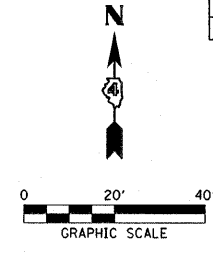
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PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

STAGE II CONSTRUCTION
 F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
 SECTION (144-B) BR
 FULTON COUNTY
 STATION 571+32.50
 STRUCTURE NO. 029-0066

PLOT DATE: 9/9/2008 FILE NAME: 37003-bht-stageconstruction.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	14
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 68091		



- LEGEND**
- ① EPOXY PAVEMENT MARKING LINE 4" (WHITE)
 - ② EPOXY PAVEMENT MARKING LINE 4" (SOLID YELLOW)
 - ③ EPOXY PAVEMENT MARKING LINE 4" (SKIP-DASH YELLOW)
 - ④ RAISED REFLECTIVE PAVEMENT MARKERS
 - ⑤ RAISED REFLECTIVE PAVEMENT MARKERS BRIDGE

PAVEMENT MARKING SCHEDULE

LOCATION	PERMANENT EPOXY			TEMPORARY				SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS	RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL
	4" SINGLE WHITE EDGE LINE	4" SKIPED DASHED YELLOW CENTERLINE	4" SOLID YELLOW CENTERLINE	4" SINGLE WHITE EDGE LINE	4" SKIPED DASHED YELLOW CENTERLINE	4" SOLID YELLOW CENTERLINE	24" SINGLE WHITE STOP BAR	4" SINGLE WHITE EDGE LINE					
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	EACH
FAP 665 IL 116													
STAGE I													
LT STA. 567+00 TO LT STA. 575+00				800					267	267			
CL STA. 567+00 TO CL STA. 575+00										229			11
RT STA. 567+44 TO LT STA. 574+75				731					244				
RT STA. 567+34.04								11	22				
LT STA. 575+36.96								11	22				
STAGE II													
RT STA. 567+00 TO RT STA. 575+00				800					267	209			
LT STA. 568+22 TO LT STA. 574+87				665					222				
LT STA. 567+00 TO LT STA. 575+00	800			800					267				
LCL STA. 567+00 TO LCL STA. 575+00			800			800			267				
CL STA. 567+00 TO CL STA. 575+00		200			200			160	120		9	2	
RT STA. 567+00 TO RT STA. 575+00	800			800					267				
SUBTOTAL	1600	200	800	4596	200	800	22	160	1965	705	9	2	11
TOTAL		2600			4818		22	160	1965	705	9	2	11

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PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.P.S. CHECKED: S.W.M. DRAWN: D.T.M.

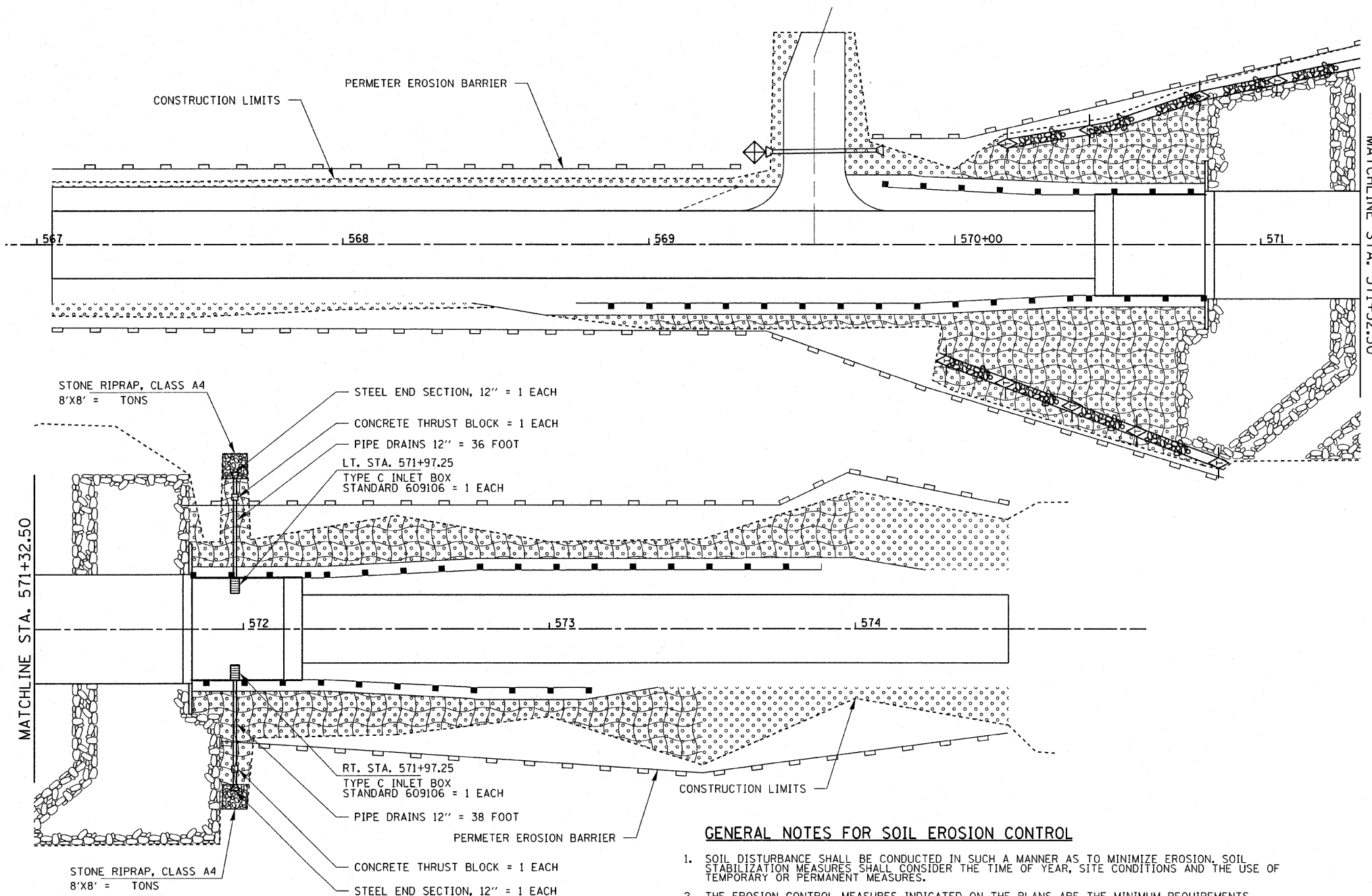
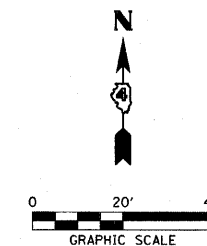
PAVEMENT MARKINGS

F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
 SECTION (144-B) BR
 FULTON COUNTY
 STATION 571+32.50
 STRUCTURE NO. 029-0066

EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 1.0 ACRES OF TOTAL LAND AREA.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	15
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 68091		



LEGEND

- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- RIPRAP DITCH - STONE RIPRAP CLASS A4
- STONE RIPRAP CLASS A4 (SEE BRIDGE PLANS)

GENERAL NOTES FOR SOIL EROSION CONTROL

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF CLEARING OR EARTHWORK ACTIVITIES, OF UPLAND AREAS.
4. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
5. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
6. AREAS OR EMBANKMENTS HAVING SLOPES GREATER 3H:1V SHALL BE STABILIZED WITH EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
8. SEE SPECIAL PROVISIONS FOR STORMWATER POLLUTION PREVENTION PLAN.

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CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

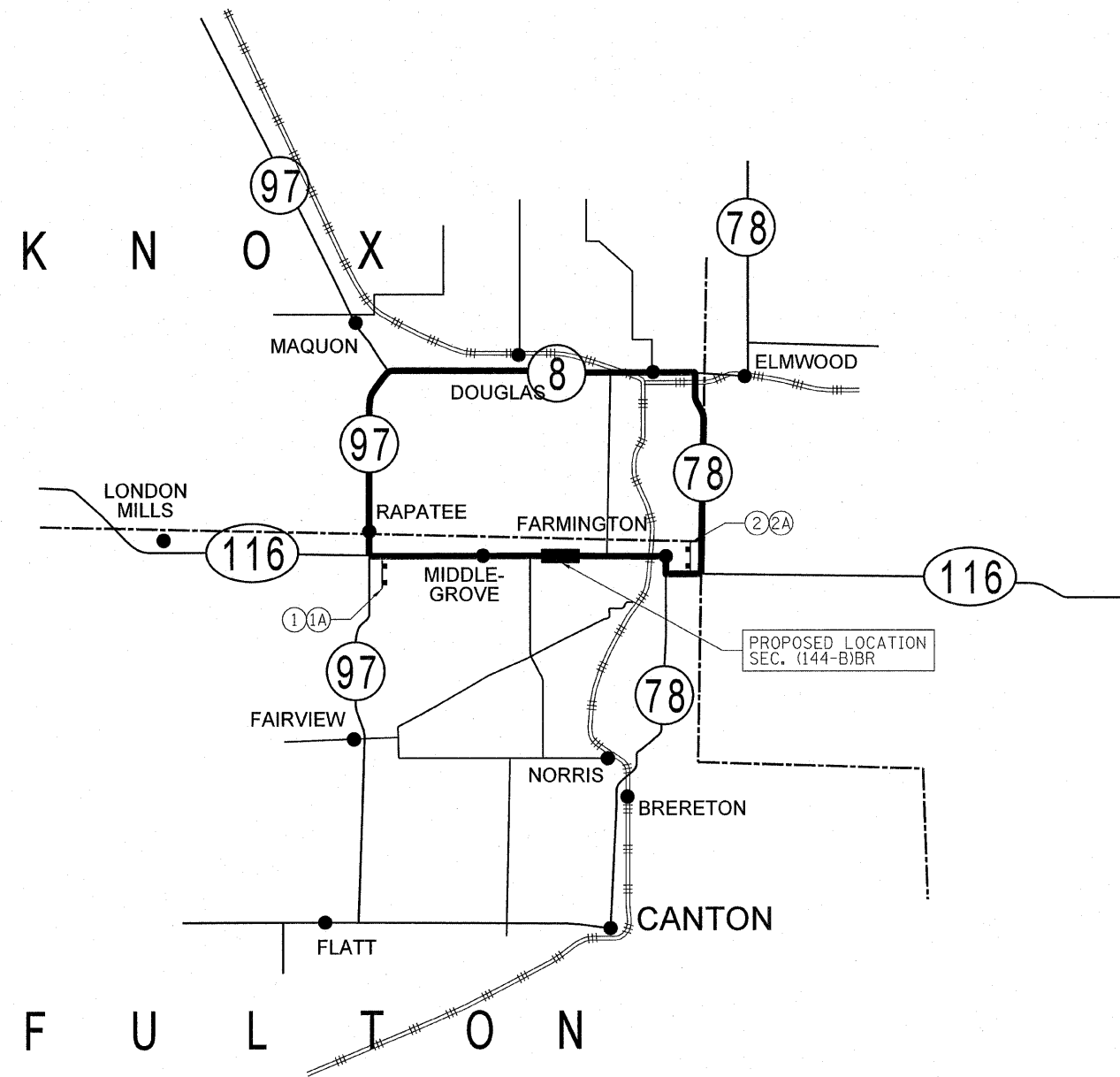
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-37-0003-1 DATE: 08/13/08
DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

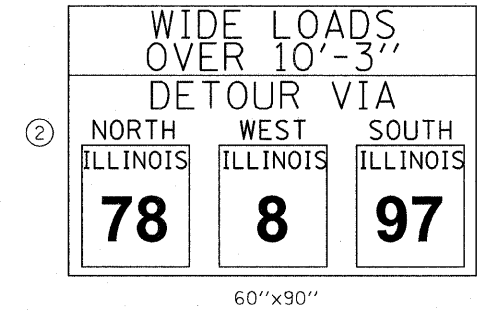
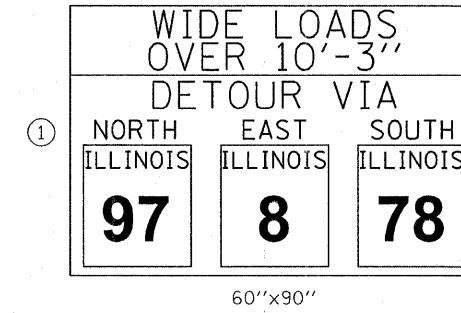
EROSION CONTROL PLAN

F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY
STATION 571+32.50
STRUCTURE NO. 029-0066

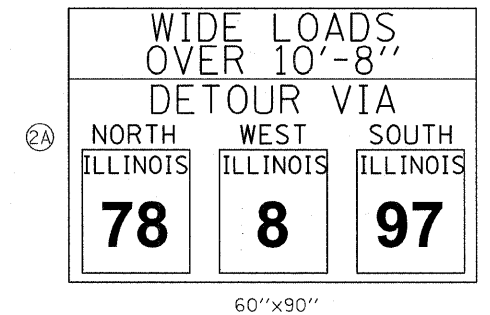
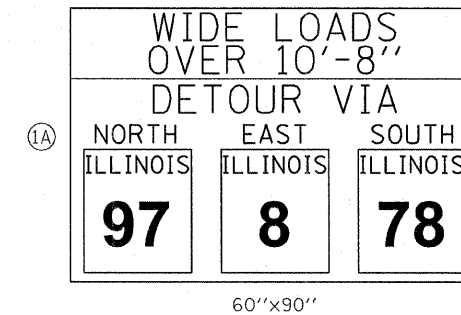
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 665	(144-B)BR	FULTON	67	16
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 68091		



STAGE I



STAGE II



DETOUR NOTES

1. THE CONTRACTOR SHALL ERECT THE SIGN AT THE LOCATION DIRECTED BY THE RESIDENT ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
2. THE ABOVE NOTED WORK, INCLUDING SIGN POSTS HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH. FOR TRAFFIC CONTROL AND PROTECTION STD. 701321 AND NO OTHER COMPENSATION SHALL BE ALLOWED.
3. THE RESIDENT ENGINEER SHALL GIVE I.D.O.T. BUREAU OF OPERATIONS PERMIT SECTION TWO WEEKS NOTICE BEFORE IMPLEMENTING ANY LANE WIDTH RESTRICTIONS.

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 LAND SURVEYORS

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 (217) 546-3400

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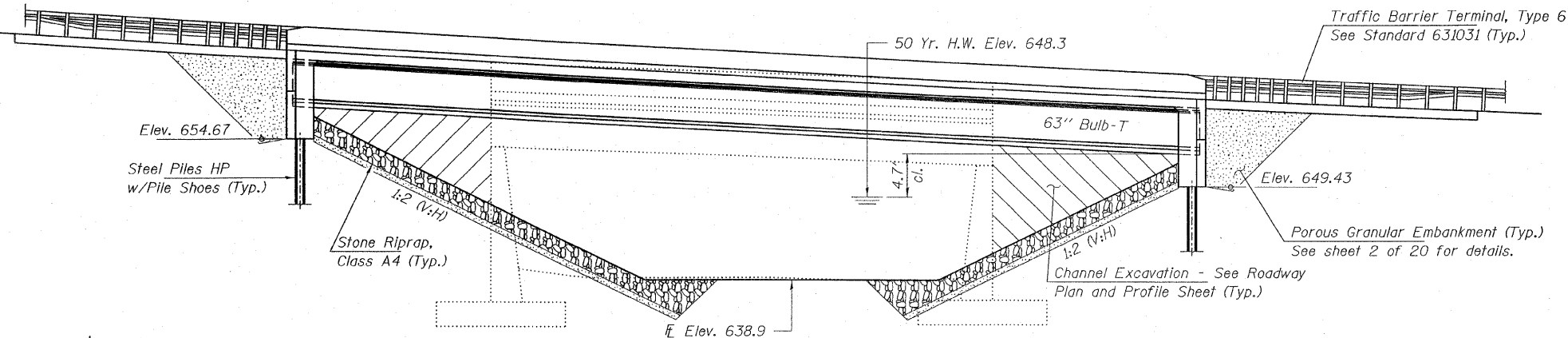
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

WIDE LOAD DETOUR
F.A.P. ROUTE 665 (IL 116) OVER LITTLERS CREEK
SECTION (144-B) BR
FULTON COUNTY

Bench Mark: Railroad spike in 1st power pole east of Str. #029-0016, 58' rt. of Sta. 573+04. Elev. 646.49.

Existing Structure: The existing structure, No. 029-0016, was built in 1930 as SBI 97, Section 144-B. The structure is a buried single span reinforced concrete T girder bridge supported on closed concrete abutments. The bridge is 53'-0" bk. to bk. of abutments and 50'-0" fa. to fa. of curbs. The contractor shall remove the existing structure as required and replace it with a single span PPC Bulb-T superstructure on integral abutments. The road shall be kept open to one lane of traffic at all times by using stage construction.

No Salvage.

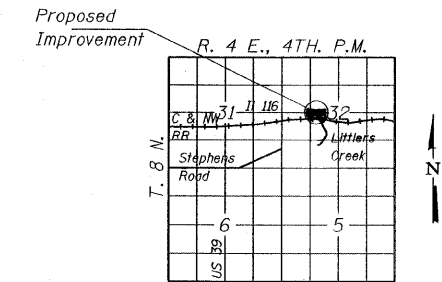


ELEVATION

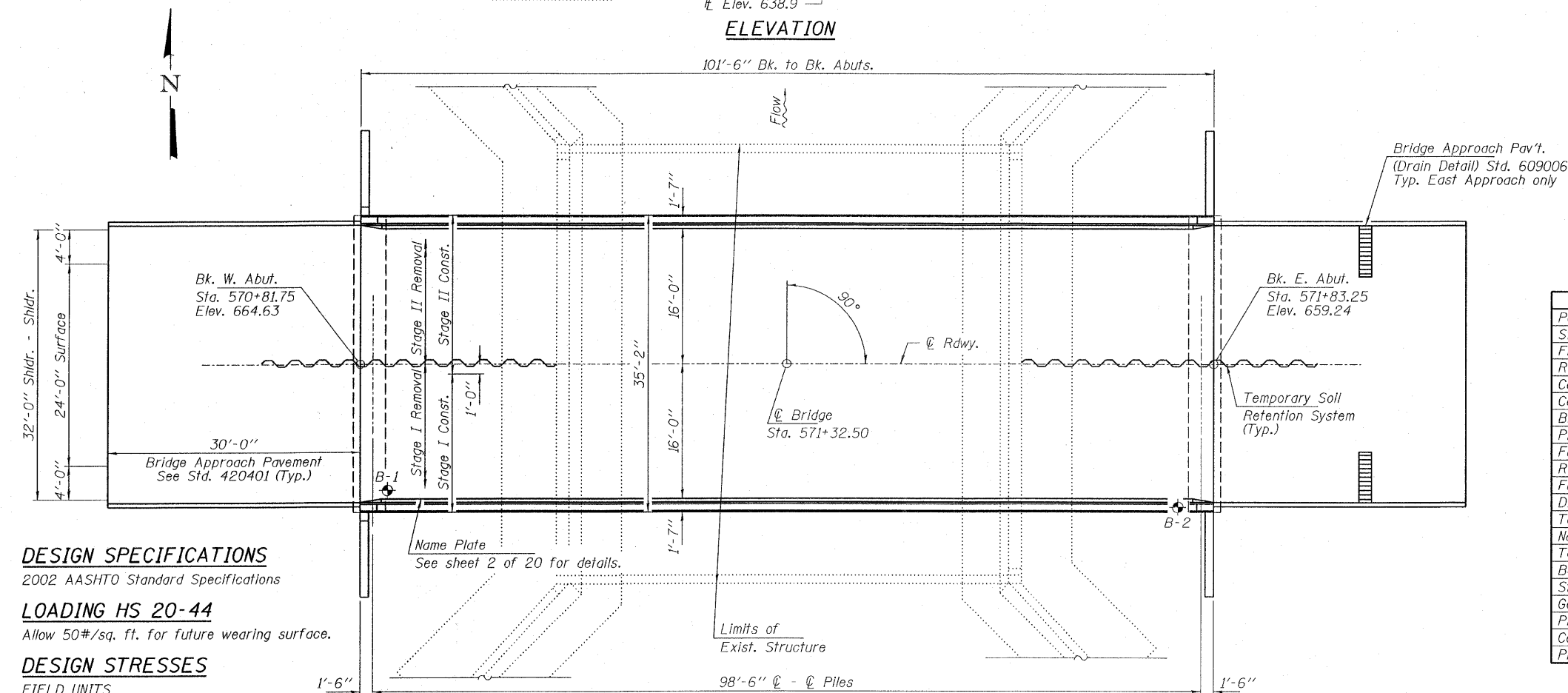
101'-6" Bk. to Bk. Abut.

INDEX OF SHEETS

1. General Plan & Elevation
2. Riprap Detail
3. Temporary Soil Retention System
4. Stage Construction Details
5. Temporary Concrete Barrier For Stage Construction
- 6.-7. Slab Elevations
8. West Approach Slab Elevations
9. East Approach Slab Elevations
10. Superstructure
- 11.-13. Superstructure Details
- 14.-15. Beam Details
16. West Abutment
17. East Abutment
18. Bar Splicer Assembly Details
19. Steel H Piles
20. Borings



LOCATION SKETCH



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

LOADING HS 20-44

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

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f'_{si} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 13.9 Sq. Mi. Low Grade Elev. 652.3 @ Sta. 576+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Natural H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	50	3,410	364	493	648.3	1.8	0.7	650.1	649.0
Base	100	3,970	382	518	648.6	2.3	1.0	650.9	649.6
Overtopping	433	5,120	414	x	649.1	3.2	x	652.3	x
Max. Calc.	500	5,350	419	573	649.3	3.4	1.7	652.7	651.0

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	651.2	646.0

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.			215
Stone Riprap, Class A4	Ton			1,339
Filter Fabric	Sq. Yd.			1,604
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		40.0	40.0
Concrete Superstructure	Cu. Yd.	153.5		153.5
Bridge Deck Grooving	Sq. Yd.	339		339
Protective Coat	Sq. Yd.	447		447
Furnishing & Erecting P.P.C. Bulb-T Beams 63"	Foot	599		599
Reinforcement Bars, Epoxy Coated	Pound	25,700	6,340	32,040
Furnishing Steel Piles HP12x63	Foot		260	260
Driving Piles	Foot		260	260
Test Pile Steel HP12x63	Each		2	2
Name Plates	Each	1		1
Temporary Soil Retention System	Sq. Ft.			860
Bar Splicers	Each	362	20	382
Structure Excavation	Cu. Yd.		402	402
Geocomposite Wall Drain	Sq. Yd.		102	102
Pipe Underdrain for Structures 4"	Foot		170	170
Concrete Encasement	Cu. Yd.		4.2	4.2
Pile Shoes	Each		12	12

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

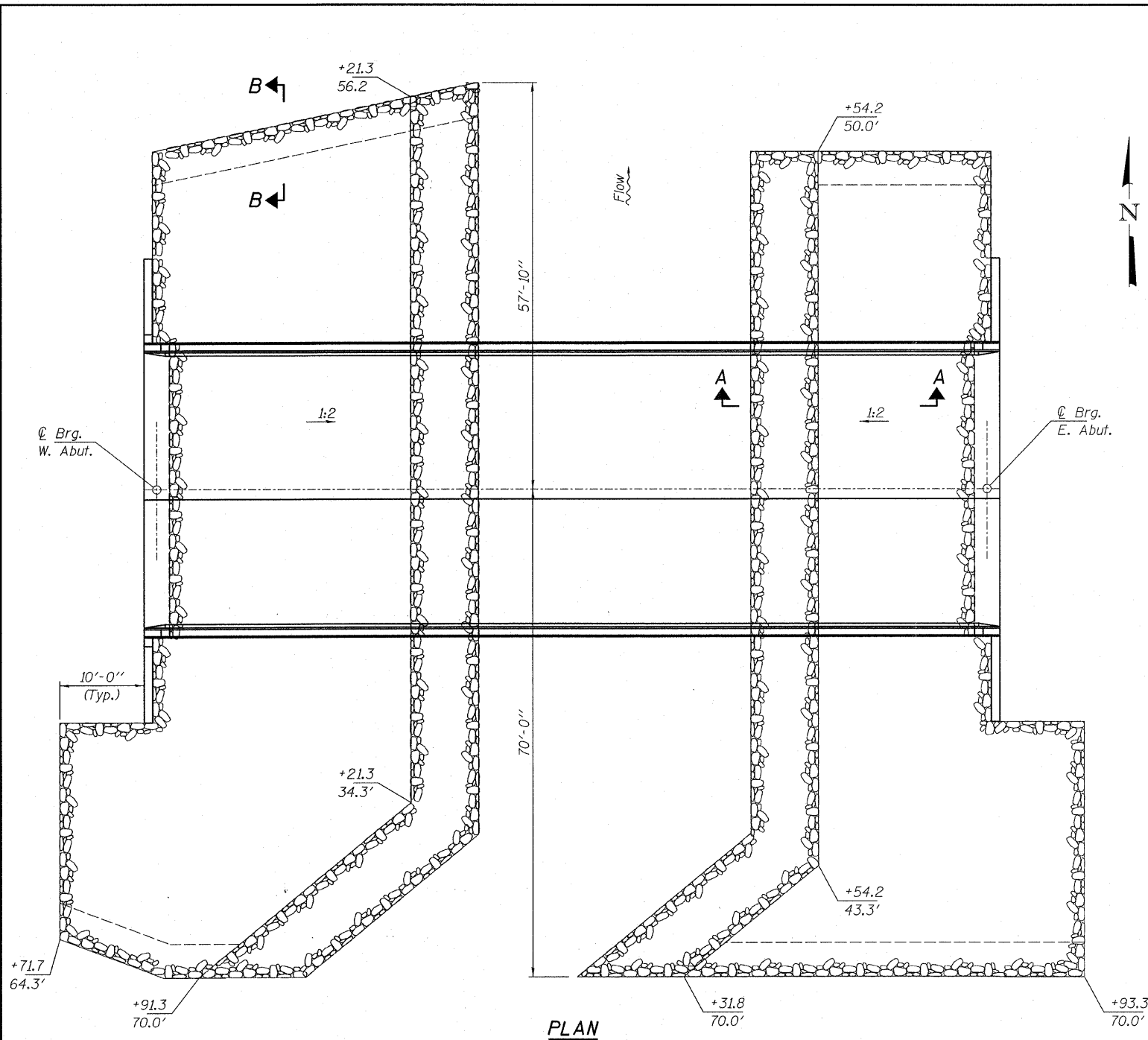


Michael D. Cova
 ILLINOIS STRUCTURAL NO. 081-5984

Expires 11-30-08
 9-8-2008

GENERAL PLAN AND ELEVATION
IL-116 OVER LITTLERS CREEK
F.A.P. 665 / SECTION (144-B)BR
FULTON COUNTY
STATION 571+32.50
STRUCTURE NO. 029-0066

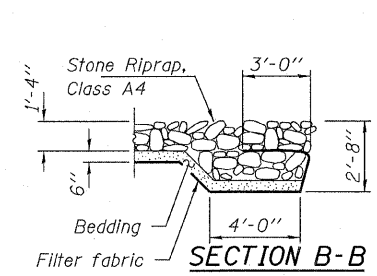
PROJECT NUMBER: 12-37-0003-1	DATE: 07/31/08	SHEET NO. 1	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPSON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400			IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4			ILLINOIS		FED. AID PROJECT		



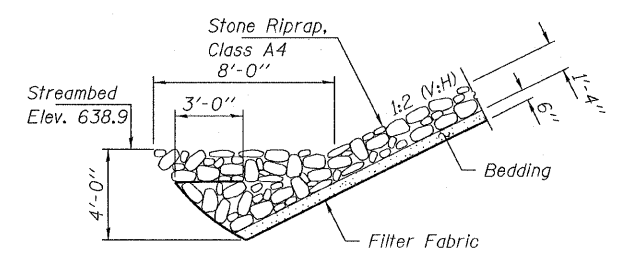
PLAN

GENERAL NOTES

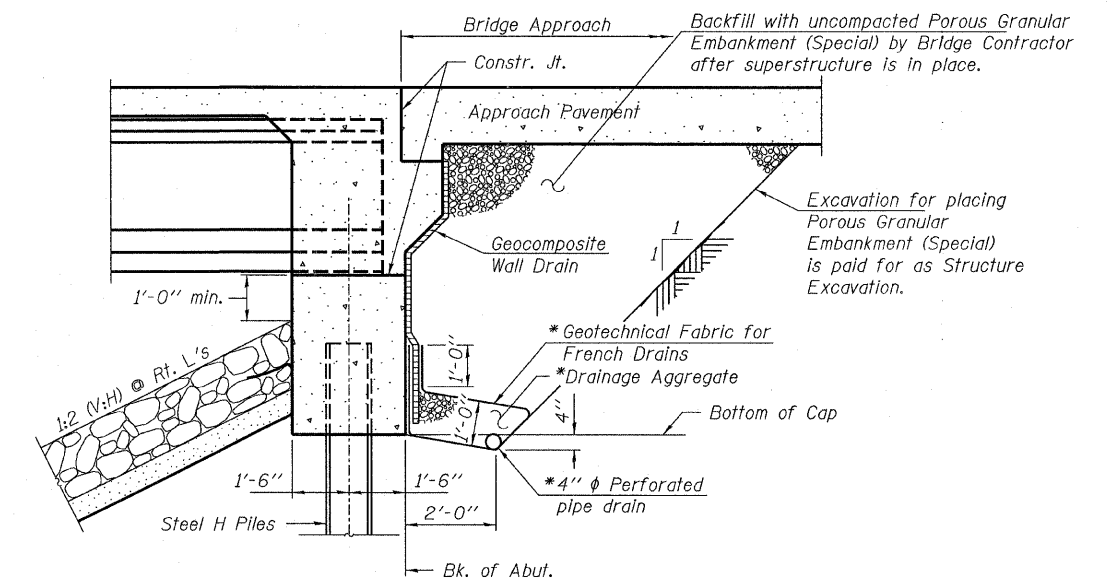
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.



SECTION B-B



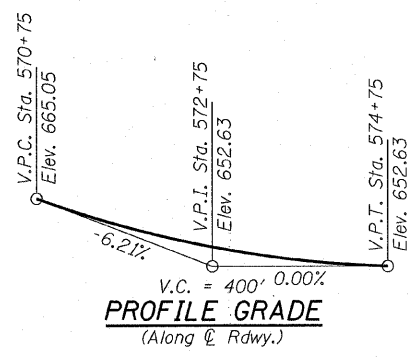
SECTION A-A



SECTION THRU INTEGRAL 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 ϕ Rdwy.)

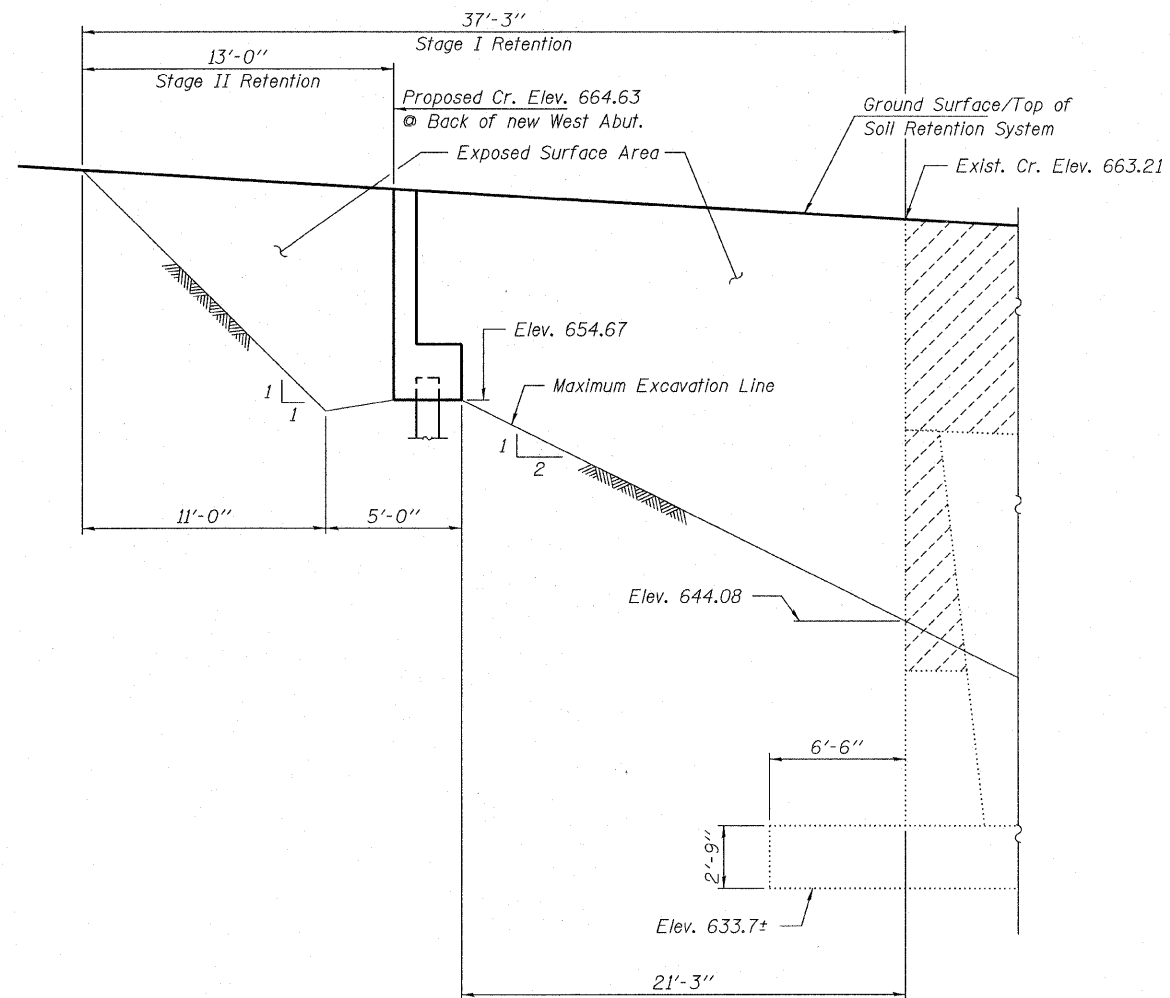
STATION 571+32.50
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 665 SEC. (144-B)BR
LOADING HS20
STR. NO. 029-0066

NAME PLATE
See Std. 515001

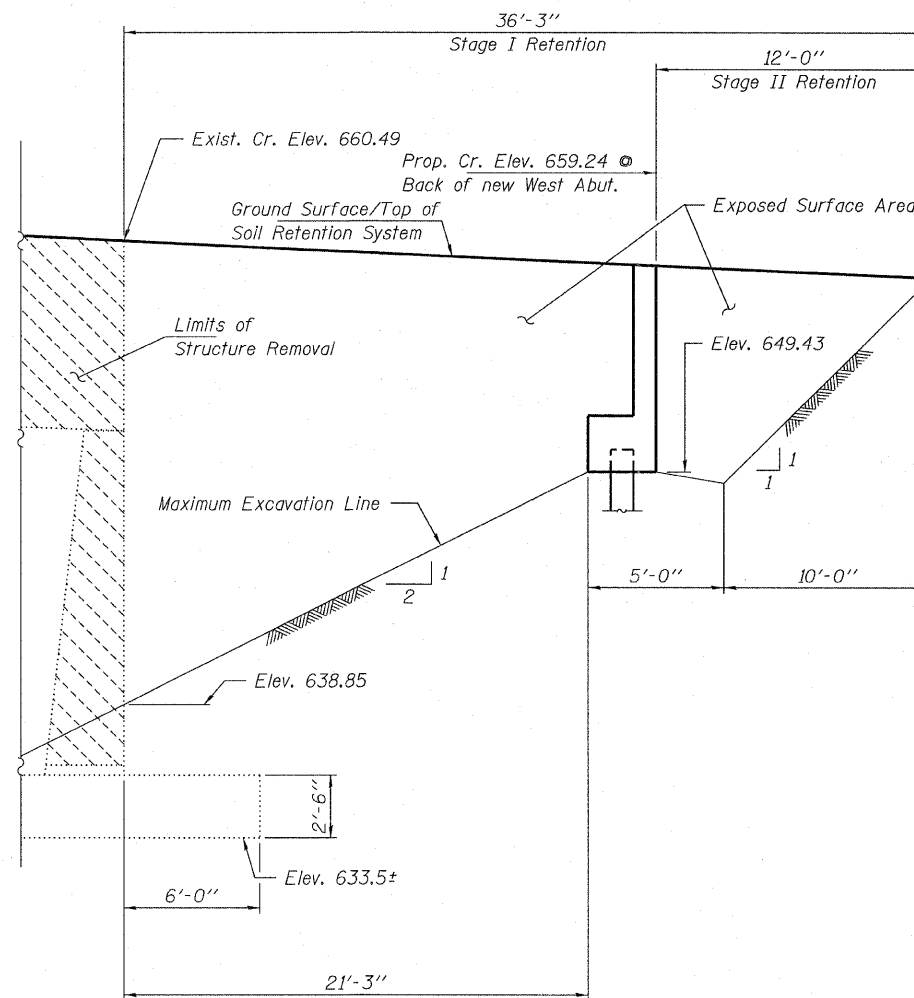
DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**RIPRAP DETAILS
STRUCTURE NO. 029-0066**

<p>HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 548-3400</p>	SHEET NO. 2	F.A.P. 665	SECTION (144-B)BR	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 18	
	20 SHEETS	IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091			
	PROJECT NUMBER: 12-37-0003-1	DATE: 07/31/08	FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



WEST ABUTMENT



EAST ABUTMENT

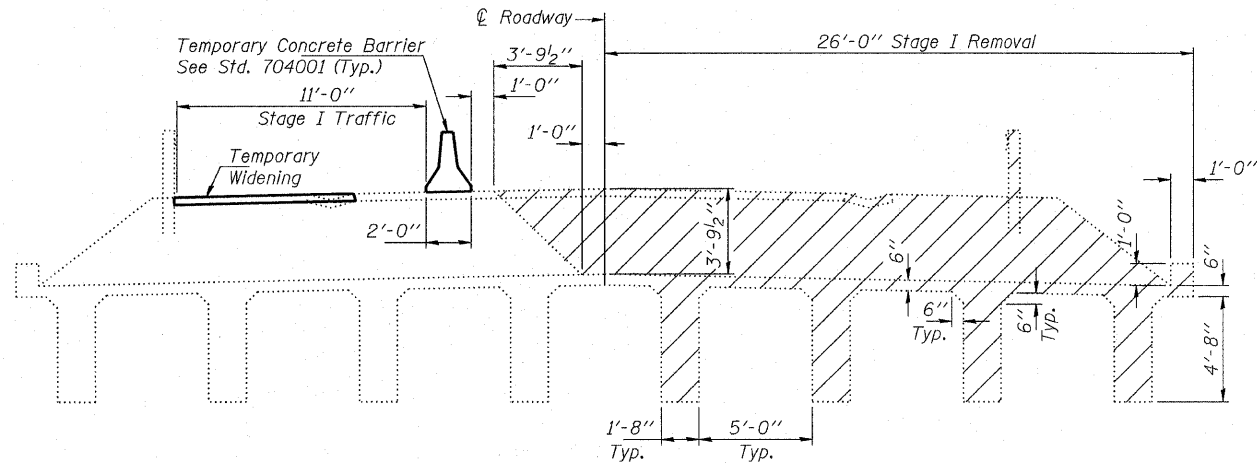
Note:
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

TEMPORARY SOIL RETENTION SYSTEM

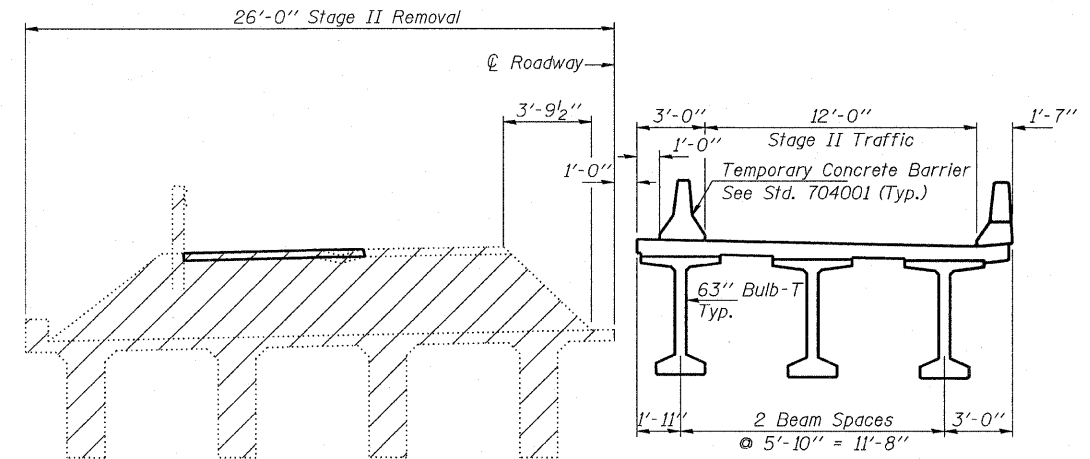
DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**TEMPORARY SOIL
 RETENTION SYSTEM
 STRUCTURE NO. 029-0066**

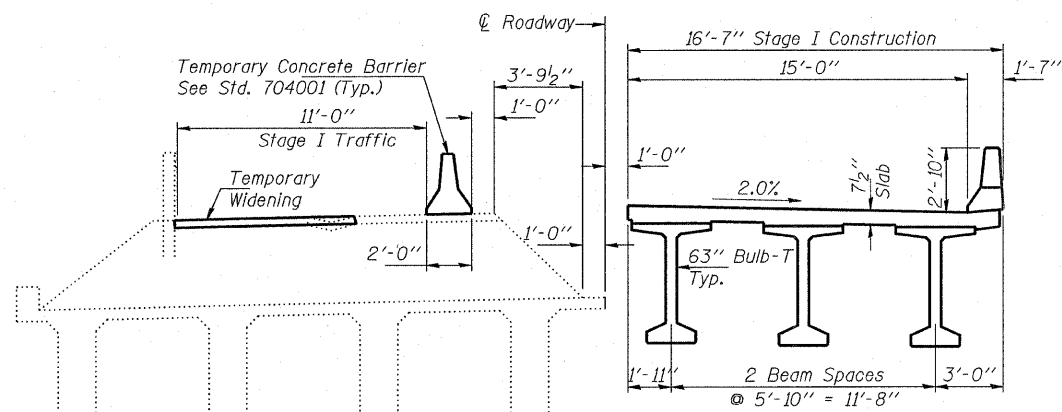
HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 3	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	20 SHEETS	665	(144-B)BR	FULTON	67	19	
	PROJECT NUMBER: 12-37-0003-1	DATE: 07/31/08	IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
			FED. ROAD DIST. NO. 4 ILLINOIS		FED. AID PROJECT		



STAGE I REMOVAL

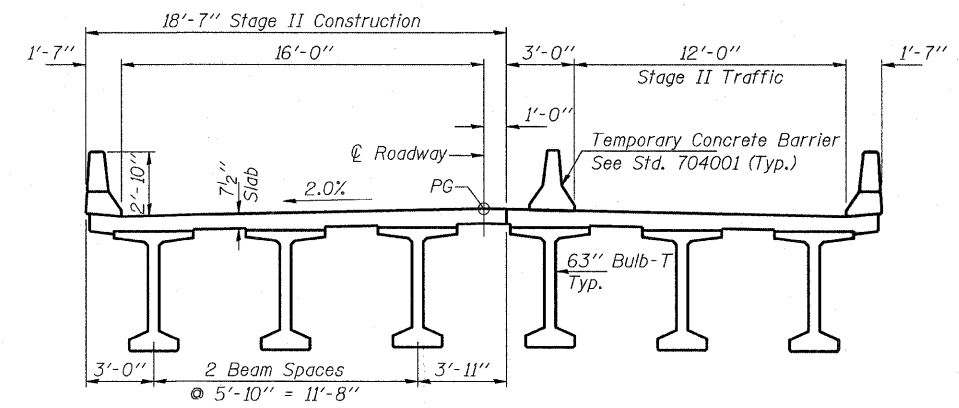


STAGE II REMOVAL



STAGE I CONSTRUCTION


Note: All sections are looking east.
Hatched areas indicate removal.



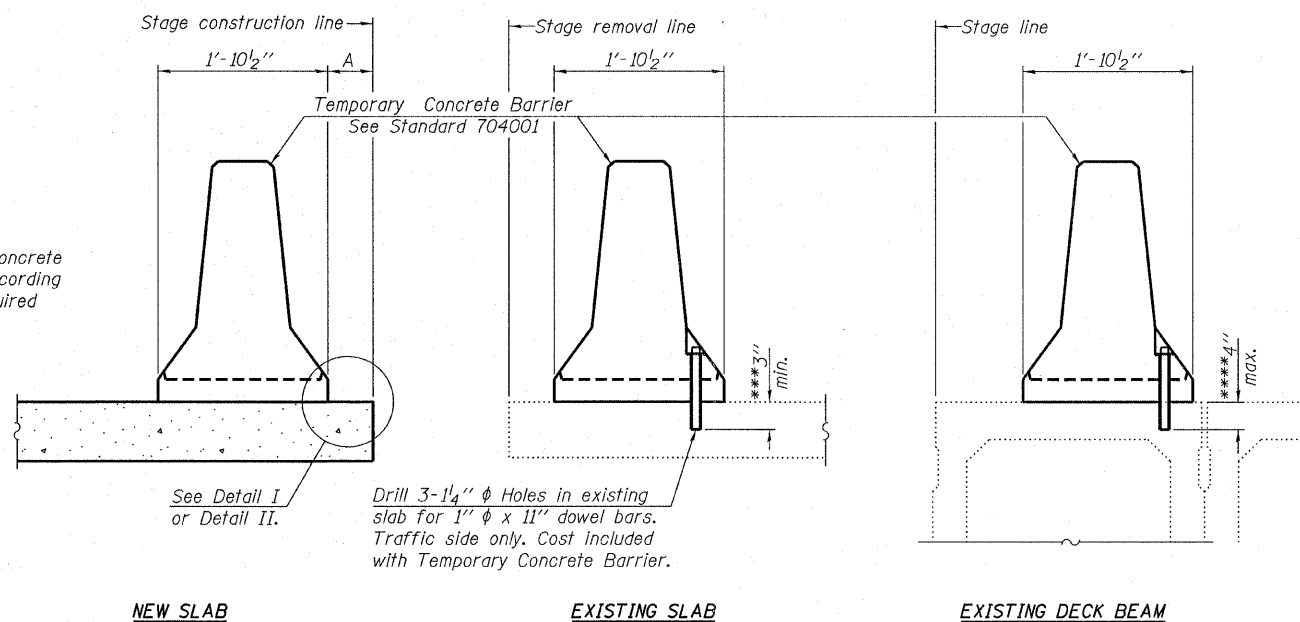
STAGE II CONSTRUCTION

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 029-0066**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS  3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 4 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		665	(144-B)BR	FULTON	67	20	
		IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091		
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					

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".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

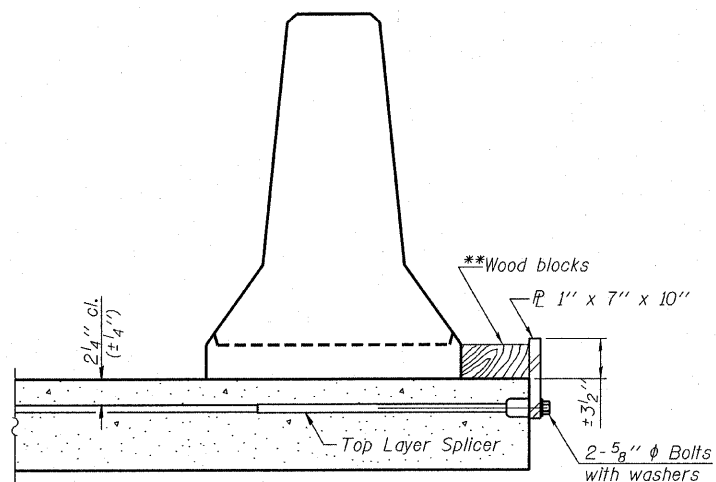
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL 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 C of each barrier panel.

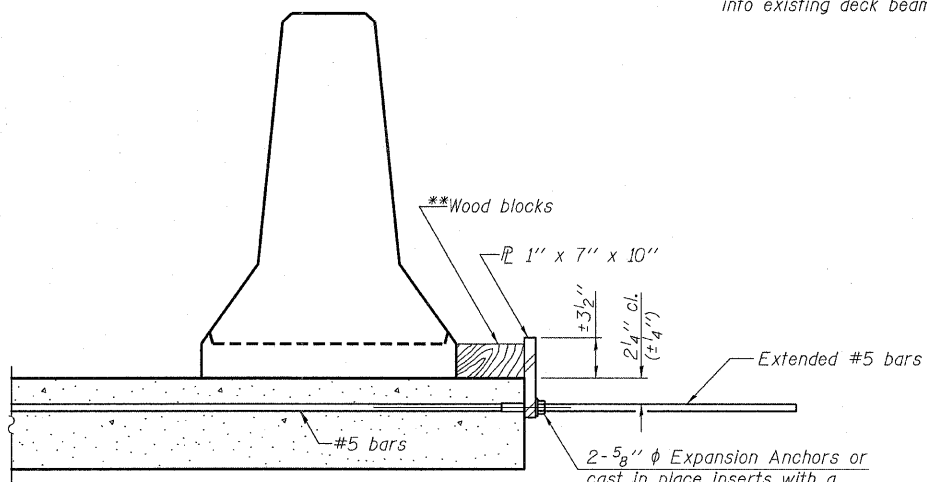
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

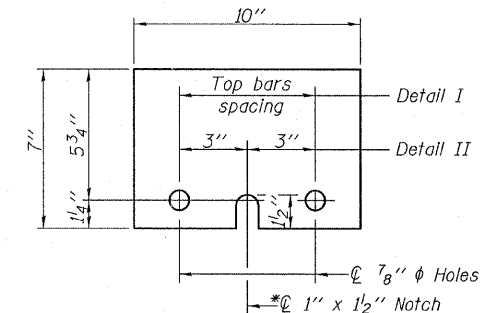
****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x 10"

*Required only with 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.

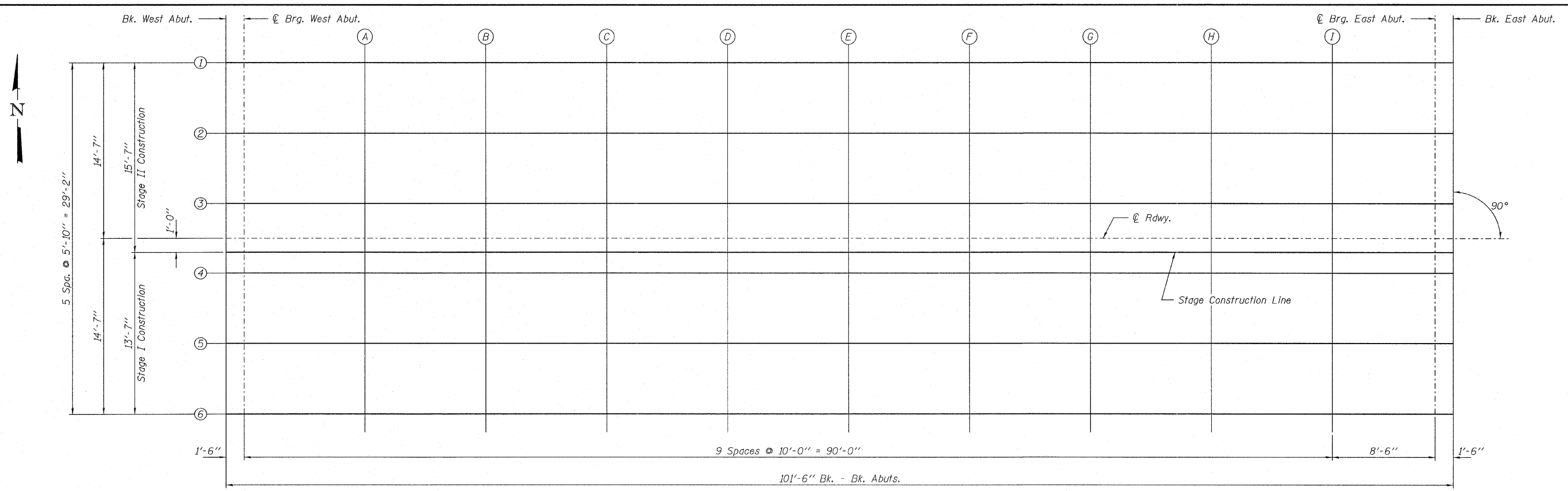
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 029-0066

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

R-27

5-16-08

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 5 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		665	(144-B)BR	FULTON	67	21
PROJECT NUMBER: 12-37-0003-1		DATE: 07/31/08		IL 116 OVER LITTLERS CREEK CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4				ILLINOIS FED. AID PROJECT		



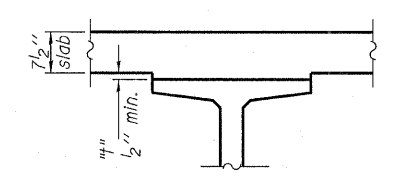
BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	-14.583	664.343	664.343
☉ Brg. W. Abut.	570+83.25	-14.583	664.251	664.251
A	570+93.25	-14.583	663.651	663.667
B	571+03.25	-14.583	663.066	663.099
C	571+13.25	-14.583	662.497	662.541
D	571+23.25	-14.583	661.943	661.993
E	571+33.25	-14.583	661.404	661.461
F	571+43.25	-14.583	660.882	660.931
G	571+53.25	-14.583	660.374	660.418
H	571+63.25	-14.583	659.883	659.913
I	571+73.25	-14.583	659.406	659.420
☉ Brg. E. Abut.	571+81.75	-14.583	659.014	659.014
Bk. E. Abut.	571+83.25	-14.583	658.946	658.946

BEAM 2

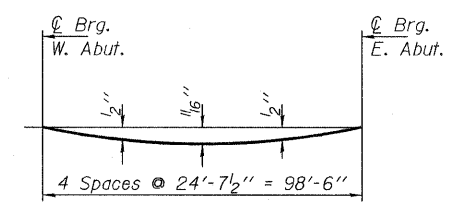
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	-8.75	664.459	664.459
☉ Brg. W. Abut.	570+83.25	-8.75	664.368	664.368
A	570+93.25	-8.75	663.768	663.784
B	571+03.25	-8.75	663.183	663.216
C	571+13.25	-8.75	662.613	662.658
D	571+23.25	-8.75	662.059	662.110
E	571+33.25	-8.75	661.521	661.577
F	571+43.25	-8.75	660.998	661.048
G	571+53.25	-8.75	660.491	660.534
H	571+63.25	-8.75	659.999	660.030
I	571+73.25	-8.75	659.523	659.537
☉ Brg. E. Abut.	571+81.75	-8.75	659.130	659.130
Bk. E. Abut.	571+83.25	-8.75	659.062	659.062

PLAN



STANDARD FILLET DETAIL

To determine "h": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the elevation sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" minus slab thickness, equals the fillet heights "h" above top flanges of beams.



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
 Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets 6 & 7 of 20.

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**SLAB ELEVATIONS
STRUCTURE NO. 029-0066**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 6 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		665	(144-B)BR	FULTON	67	22	
		IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091		
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	-2.917	664.576	664.576
☉ Brg. W. Abut.	570+83.25	-2.917	664.485	664.485
A	570+93.25	-2.917	663.884	663.901
B	571+03.25	-2.917	663.299	663.332
C	571+13.25	-2.917	662.730	662.774
D	571+23.25	-2.917	662.176	662.227
E	571+33.25	-2.917	661.638	661.694
F	571+43.25	-2.917	661.115	661.165
G	571+53.25	-2.917	660.608	660.651
H	571+63.25	-2.917	660.116	660.147
I	571+73.25	-2.917	659.640	659.654
☉ Brg. E. Abut.	571+81.75	-2.917	659.247	659.247
Bk. E. Abut.	571+83.25	-2.917	659.179	659.179

☉ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	0	664.634	664.634
☉ Brg. W. Abut.	570+83.25	0	664.543	664.543
A	570+93.25	0	663.943	663.959
B	571+03.25	0	663.358	663.391
C	571+13.25	0	662.788	662.833
D	571+23.25	0	662.234	662.285
E	571+33.25	0	661.696	661.752
F	571+43.25	0	661.173	661.223
G	571+53.25	0	660.666	660.709
H	571+63.25	0	660.174	660.205
I	571+73.25	0	659.698	659.712
☉ Brg. E. Abut.	571+81.75	0	659.305	659.305
Bk. E. Abut.	571+83.25	0	659.237	659.237

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	1	664.614	664.614
☉ Brg. W. Abut.	570+83.25	1	664.523	664.523
A	570+93.25	1	663.923	663.939
B	571+03.25	1	663.338	663.371
C	571+13.25	1	662.768	662.813
D	571+23.25	1	662.214	662.265
E	571+33.25	1	661.676	661.732
F	571+43.25	1	661.153	661.203
G	571+53.25	1	660.646	660.689
H	571+63.25	1	660.154	660.185
I	571+73.25	1	659.678	659.692
☉ Brg. E. Abut.	571+81.75	1	659.285	659.285
Bk. E. Abut.	571+83.25	1	659.217	659.217

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	2.917	664.576	663.951
☉ Brg. W. Abut.	570+83.25	2.917	664.485	663.860
A	570+93.25	2.917	663.884	663.276
B	571+03.25	2.917	663.299	662.707
C	571+13.25	2.917	662.730	662.149
D	571+23.25	2.917	662.176	661.602
E	571+33.25	2.917	661.638	661.069
F	571+43.25	2.917	661.115	660.540
G	571+53.25	2.917	660.608	660.026
H	571+63.25	2.917	660.116	659.522
I	571+73.25	2.917	659.640	659.029
☉ Brg. E. Abut.	571+81.75	2.917	659.247	658.622
Bk. E. Abut.	571+83.25	2.917	659.179	658.554

BEAM 5


Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	8.75	664.459	664.459
☉ Brg. W. Abut.	570+83.25	8.75	664.368	664.368
A	570+93.25	8.75	663.768	663.784
B	571+03.25	8.75	663.183	663.216
C	571+13.25	8.75	662.613	662.658
D	571+23.25	8.75	662.059	662.110
E	571+33.25	8.75	661.521	661.577
F	571+43.25	8.75	660.998	661.048
G	571+53.25	8.75	660.491	660.534
H	571+63.25	8.75	659.999	660.030
I	571+73.25	8.75	659.523	659.537
☉ Brg. E. Abut.	571+81.75	8.75	659.130	659.130
Bk. E. Abut.	571+83.25	8.75	659.062	659.062

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	570+81.75	14.583	664.343	664.343
☉ Brg. W. Abut.	570+83.25	14.583	664.251	664.251
A	570+93.25	14.583	663.651	663.667
B	571+03.25	14.583	663.066	663.099
C	571+13.25	14.583	662.497	662.541
D	571+23.25	14.583	661.943	661.993
E	571+33.25	14.583	661.404	661.461
F	571+43.25	14.583	660.882	660.931
G	571+53.25	14.583	660.374	660.418
H	571+63.25	14.583	659.883	659.913
I	571+73.25	14.583	659.406	659.420
☉ Brg. E. Abut.	571+81.75	14.583	659.014	659.014
Bk. E. Abut.	571+83.25	14.583	658.946	658.946

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**SLAB ELEVATIONS
STRUCTURE NO. 029-0066**

 HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 7	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	23
		IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091	
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	-16.417	666.165
A	57061.75	-16.417	665.544
B	57071.75	-16.417	664.923
Bk. W. Abutment	57081.75	-16.417	664.306

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	-12	666.254
A	57061.75	-12	665.633
B	57071.75	-12	665.012
Bk. W. Abutment	57081.75	-12	664.394

☉ STRUCTURE & PG

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	0	666.494
A	57061.75	0	665.873
B	57071.75	0	665.252
Bk. W. Abutment	57081.75	0	664.634

STAGE CONSTRUCTION LINE

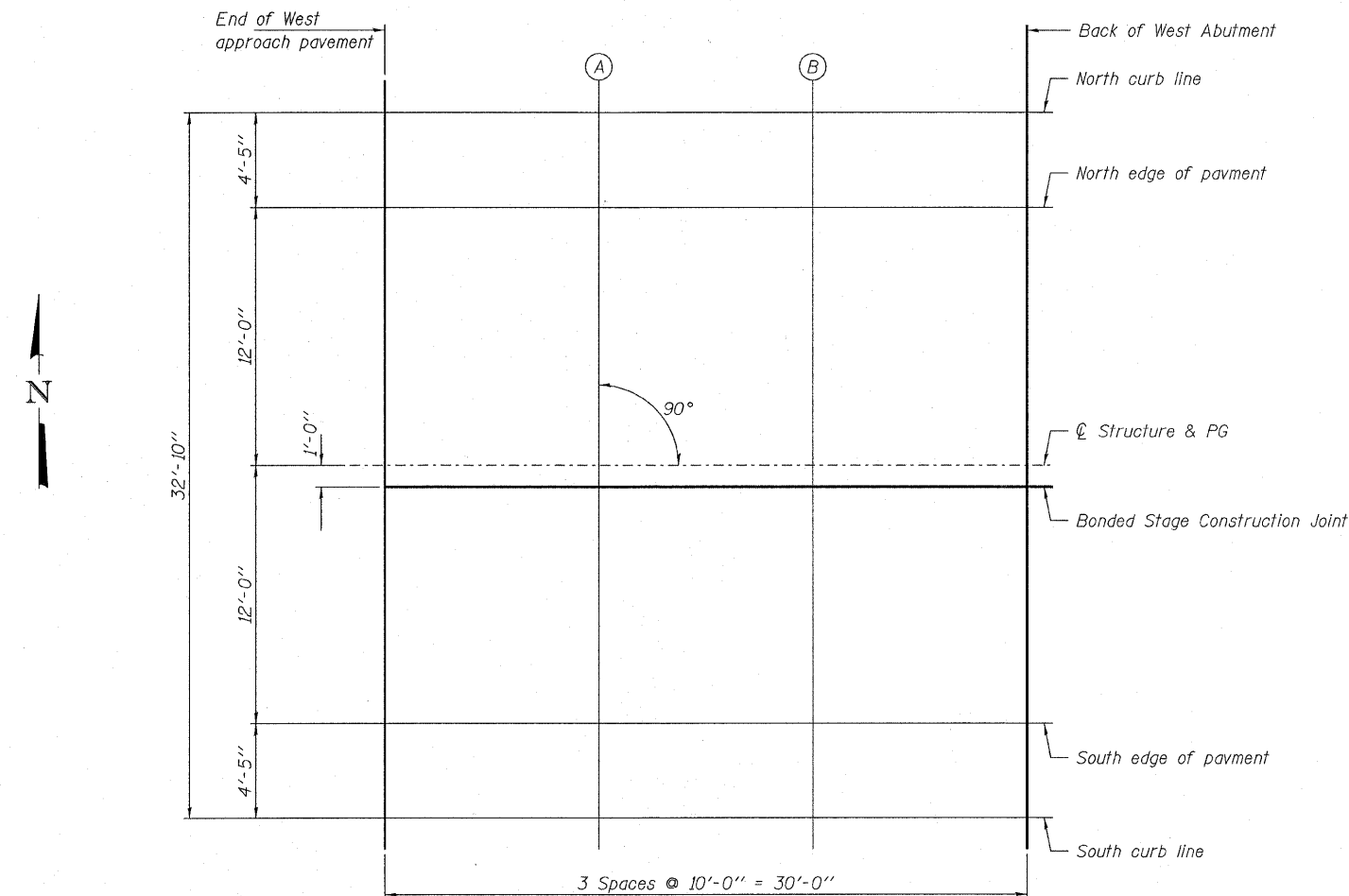
Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	1	666.474
A	57061.75	1	665.853
B	57071.75	1	665.232
Bk. W. Abutment	57081.75	1	664.614

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	12	666.254
A	57061.75	12	665.633
B	57071.75	12	665.012
Bk. W. Abutment	57081.75	12	664.394

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pvmf.	57051.75	16.417	666.165
A	57061.75	16.417	665.544
B	57071.75	16.417	664.923
Bk. W. Abutment	57081.75	16.417	664.306



PLAN

**WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 029-0066**

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
HLR 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

SHEET NO. 8 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	665	(144-B)BR	FULTON	67	24
IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	-16.417	658.909
A	57193.25	-16.417	658.464
B	57203.25	-16.417	658.034
End of E. Appr. Pvmf.	57213.25	-16.417	657.620

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	-12	658.997
A	57193.25	-12	658.552
B	57203.25	-12	658.122
End of E. Appr. Pvmf.	57213.25	-12	657.708

☉ STRUCTURE & PG

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	0	659.237
A	57193.25	0	658.792
B	57203.25	0	658.362
End of E. Appr. Pvmf.	57213.25	0	657.948

STAGE CONSTRUCTION LINE

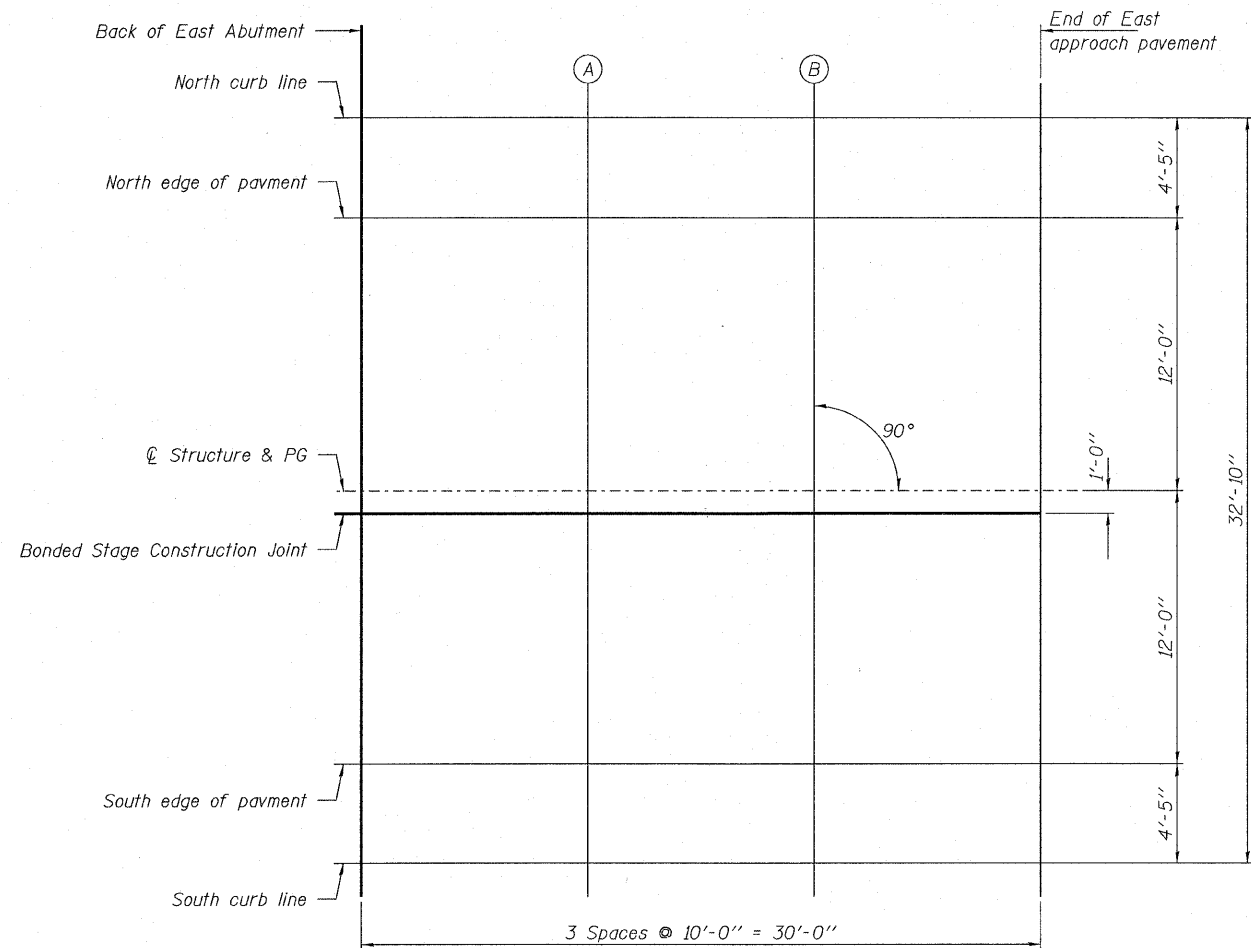
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	1	659.217
A	57193.25	1	658.772
B	57203.25	1	658.342
End of E. Appr. Pvmf.	57213.25	1	657.928

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	12	658.997
A	57193.25	12	658.552
B	57203.25	12	658.122
End of E. Appr. Pvmf.	57213.25	12	657.708

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abutment	57183.25	16.417	658.909
A	57193.25	16.417	658.464
B	57203.25	16.417	658.034
End of E. Appr. Pvmf.	57213.25	16.417	657.620



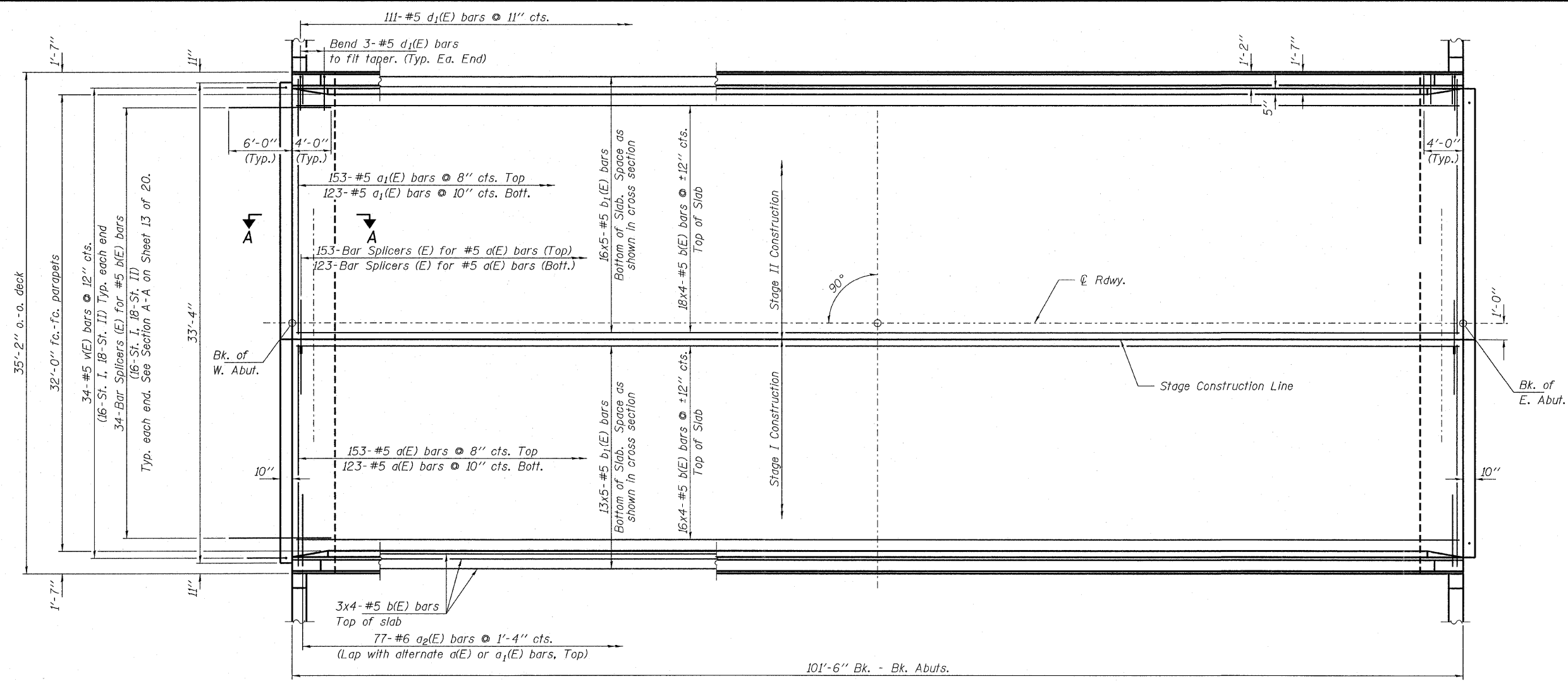
PLAN

**EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 029-0066**

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

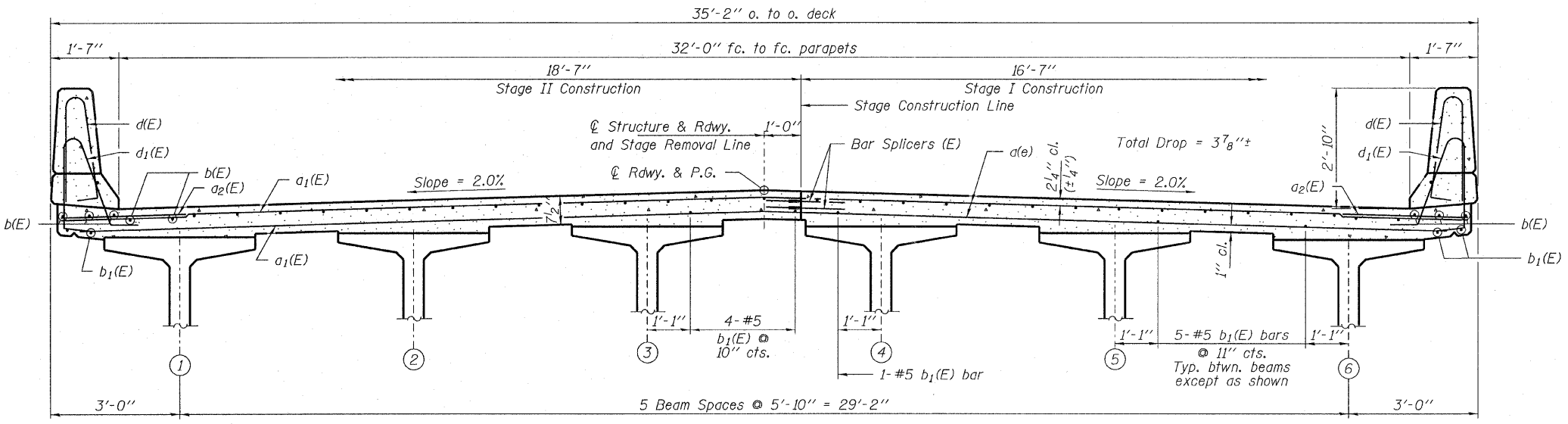
HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

SHEET NO. 9 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	665	(144-B)BR	FULTON	67	25
IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					



MIN. BAR LAP
 #5 Bar = 1'-8"

PLAN



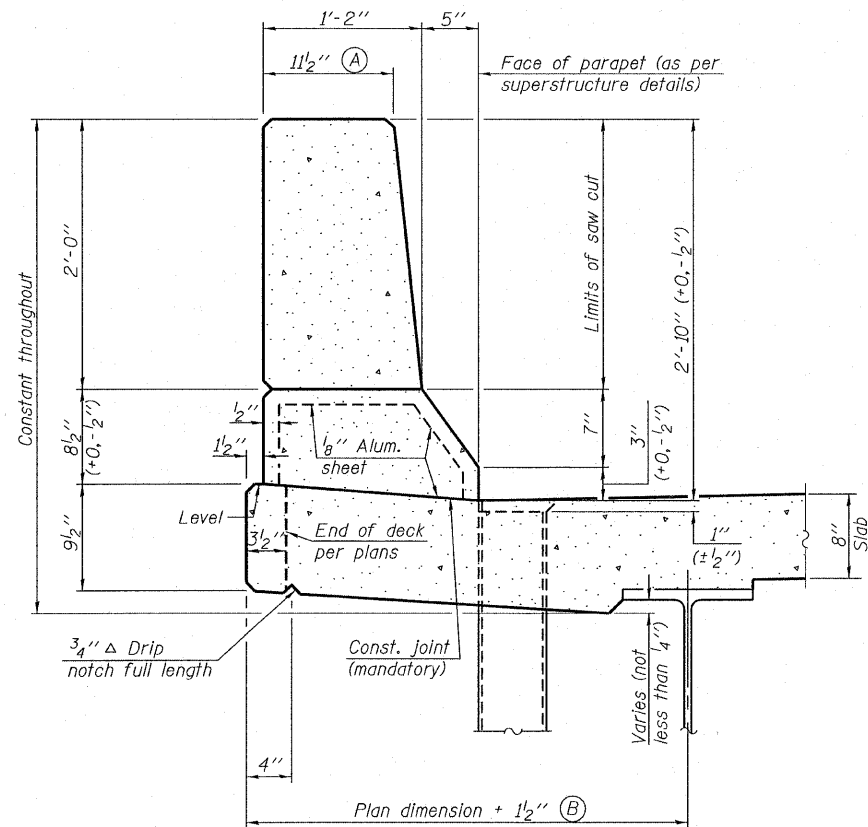
Notes:
 See sheet 12 of 20 for superstructure details, parapet reinforcement and Bill of Material.
 For Section A-A and diaphragm details see sheet 13 of 20.
 Bars indicated thus 13 x 5-#5 etc. indicates 13 lines of bars with 5 lengths per line.

CROSS SECTION
 (Looking East)

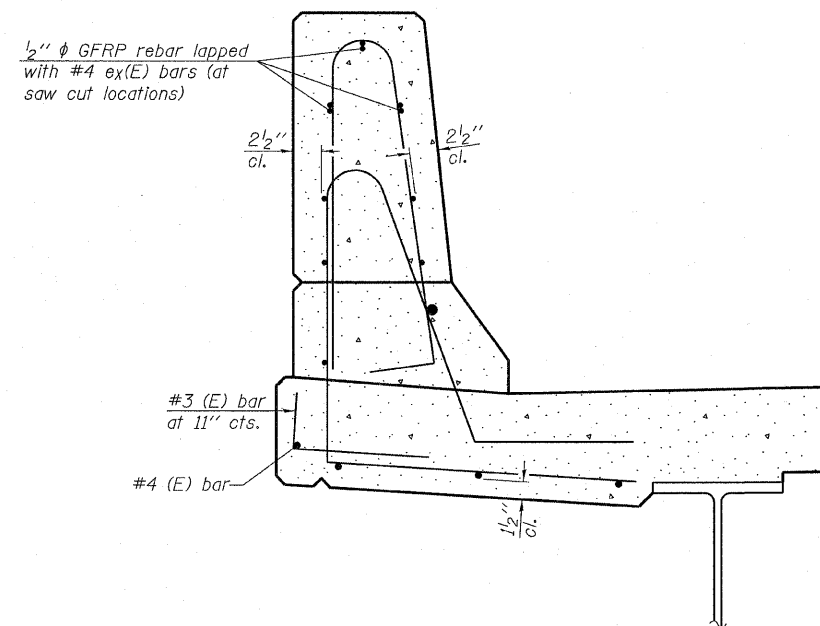
DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

SUPERSTRUCTURE
STRUCTURE NO. 029-0066

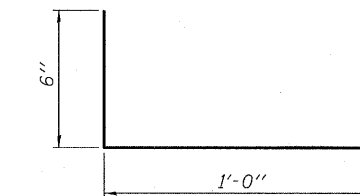
HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 10	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	26
		IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091	
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



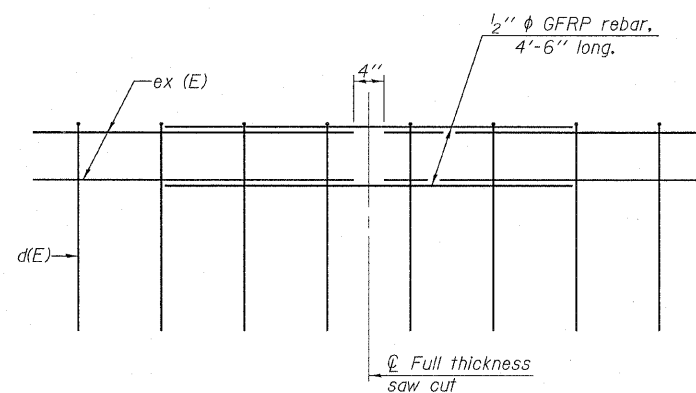
SECTION
(Showing dimensions)



SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL


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

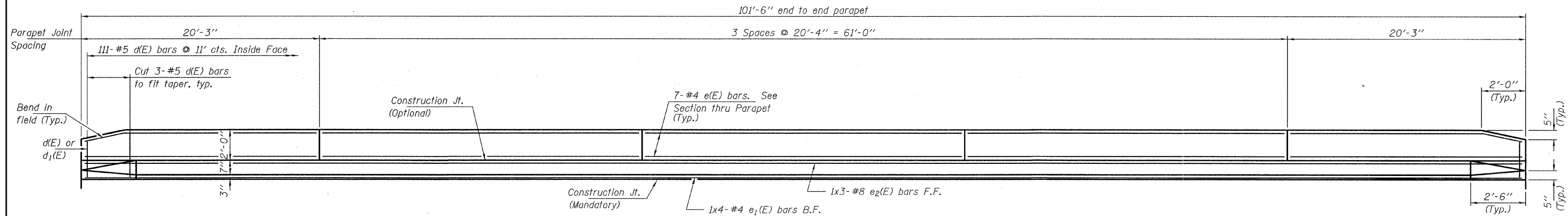
CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 029-0066

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

SFP-34

5-16-08

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS  3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 11	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	27
		IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

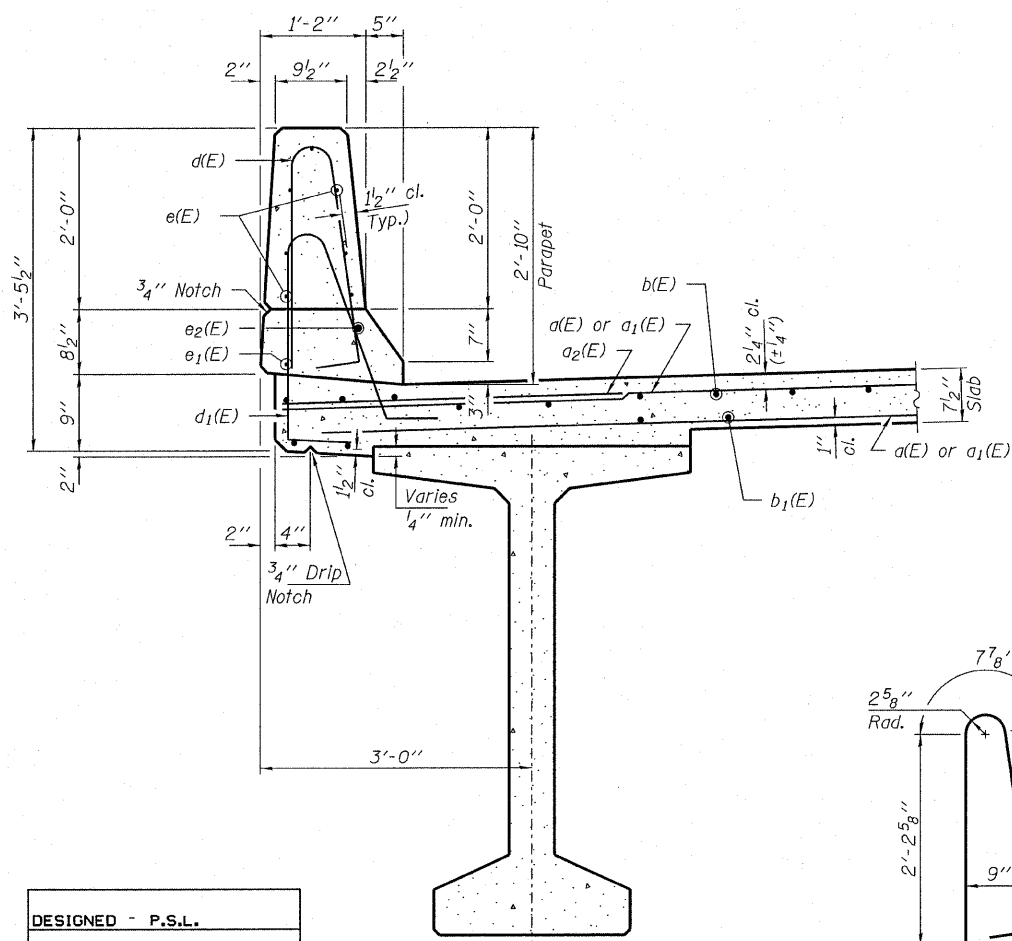


INSIDE ELEVATION OF PARAPET

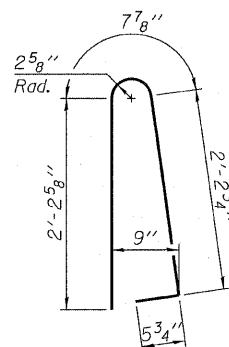
Notes:
 Bars indicated thus 1 x 3-#8 etc. indicates
 1 line of bars with 3 lengths per line.

MIN. BAR LAPS

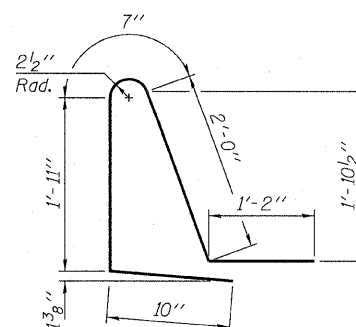
#4 bars = 1'-4"
 #8 bars = 3'-5"



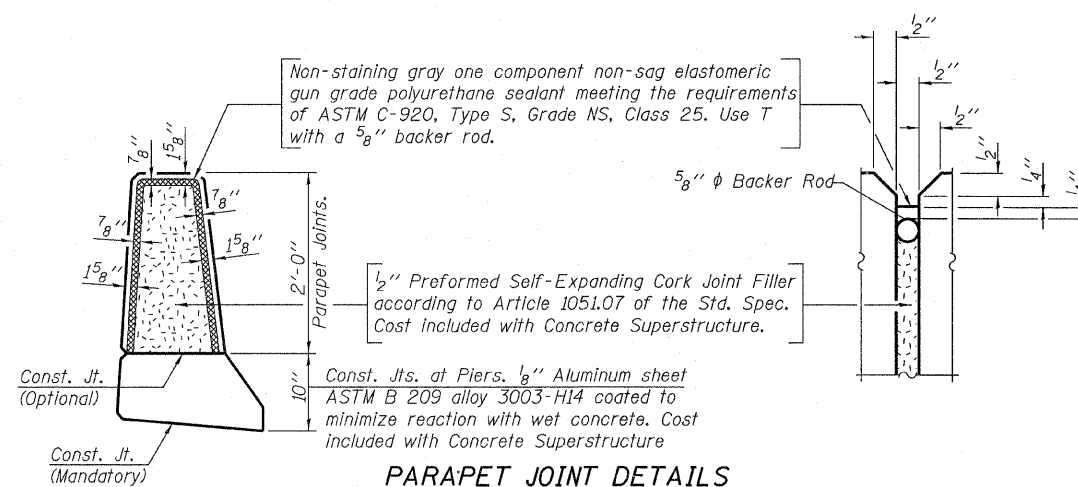
SECTION THRU PARAPET



BAR d(E)



BAR d1(E)



PARAPET JOINT DETAILS

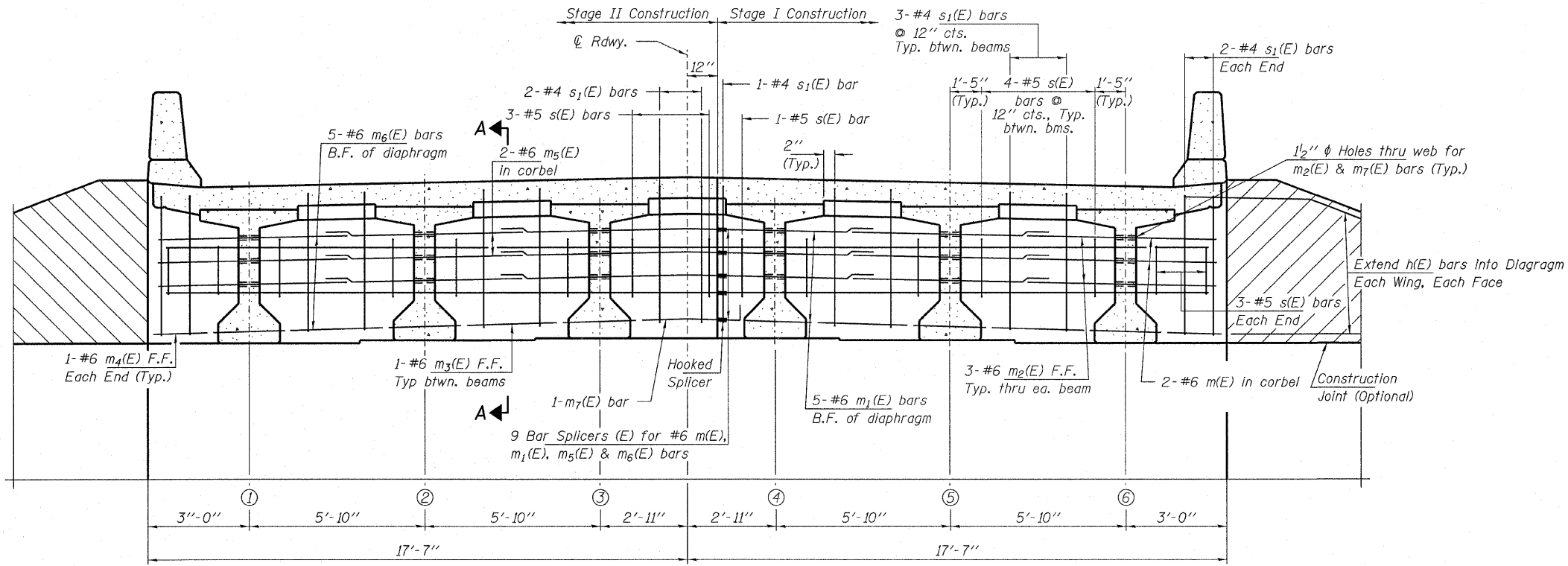
**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	276	#5	16'-3"	—
a1(E)	276	#5	18'-3"	—
a2(E)	154	#6	6'-0"	—
b(E)	160	#5	26'-7"	—
b1(E)	145	#5	21'-7"	—
d(E)	222	#5	5'-7"	⌋
d1(E)	222	#5	6'-6"	⌋
e(E)	70	#4	20'-0"	—
e1(E)	8	#4	26'-4"	—
e2(E)	6	#8	36'-0"	—
m(E)	4	#6	15'-5"	—
m1(E)	10	#6	16'-5"	—
m2(E)	36	#6	7'-10"	—
m3(E)	8	#6	3'-5"	—
m4(E)	4	#6	1'-9"	—
m5(E)	4	#6	17'-6"	—
m6(E)	10	#6	18'-5"	—
m7(E)	2	#6	2'-8"	—
s(E)	52	#5	7'-2"	⌋
s1(E)	38	#4	14'-8"	⌋
v(E)	68	#5	3'-7"	⌋
Reinforcement Bars, Epoxy Coated		Pound		25,700
Concrete Superstructures		Cu. Yds.	153.5	
Protective Coat		Sq. Yds.	447	
Bridge Deck Grooving		Sq. Yds.	339	

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 029-0066**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 12	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	20 SHEETS	665	(144-B)BR	FULTON	67	28	
			IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091	
			FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

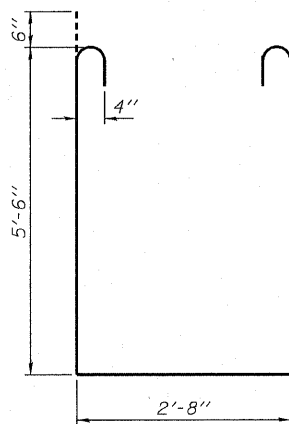


DIAPHRAGM AT ABUTMENTS

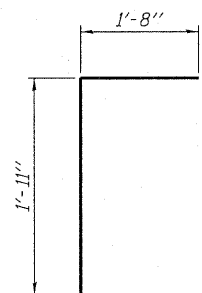
F.F. - Front Face
 B.F. - Back Face
 East Abutment Shown
 West Abutment Similar

Notes: Reinforcement bars in diaphragms are billed with superstructure on sheet 12 of 20.
 Concrete in diaphragms is included with "Concrete Superstructure" on sheet 12 of 20.
 See sheet 15 of 20 for holes thru web for $m_2(E)$ bars.

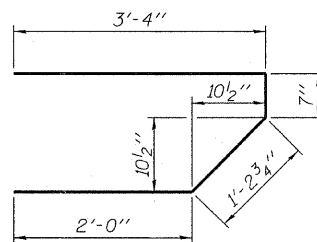
MIN. BAR LAP
 #6 Bar = 2'-0"



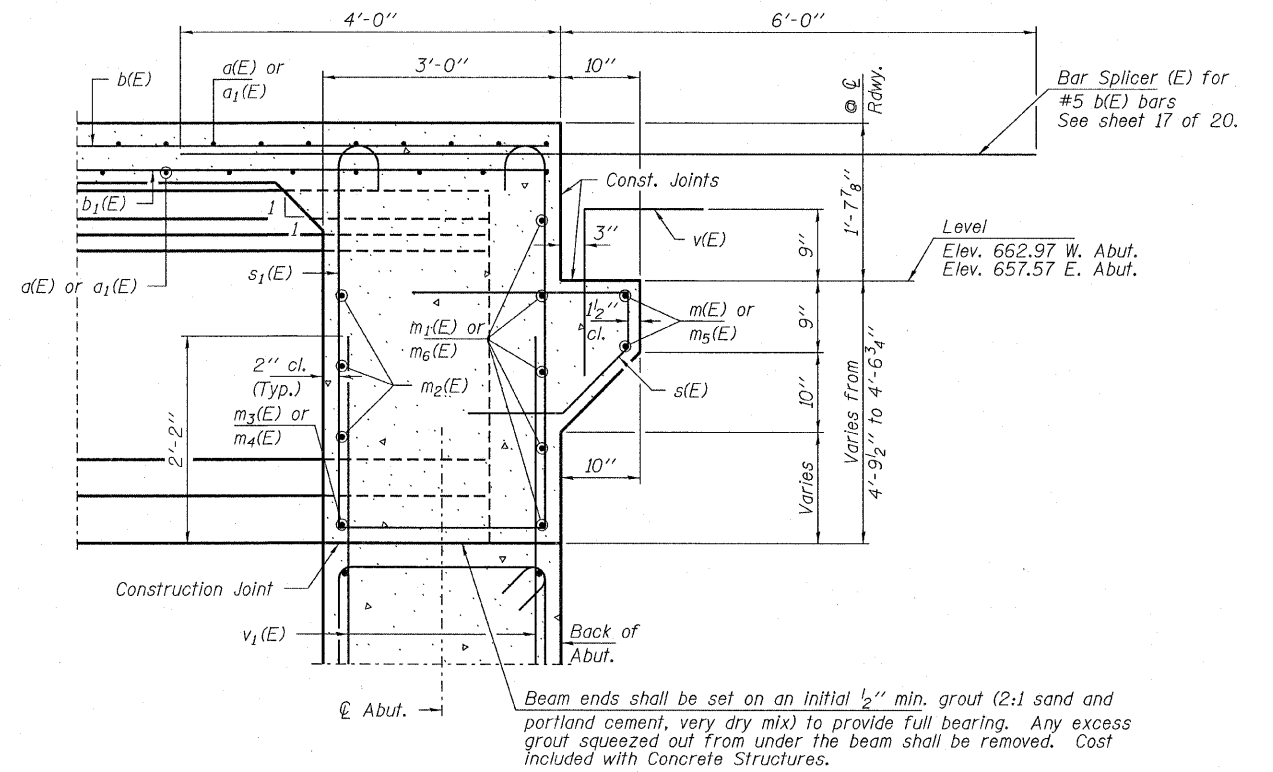
BAR $s_1(E)$



BAR $v(E)$



BAR $s(E)$



SECTION A-A

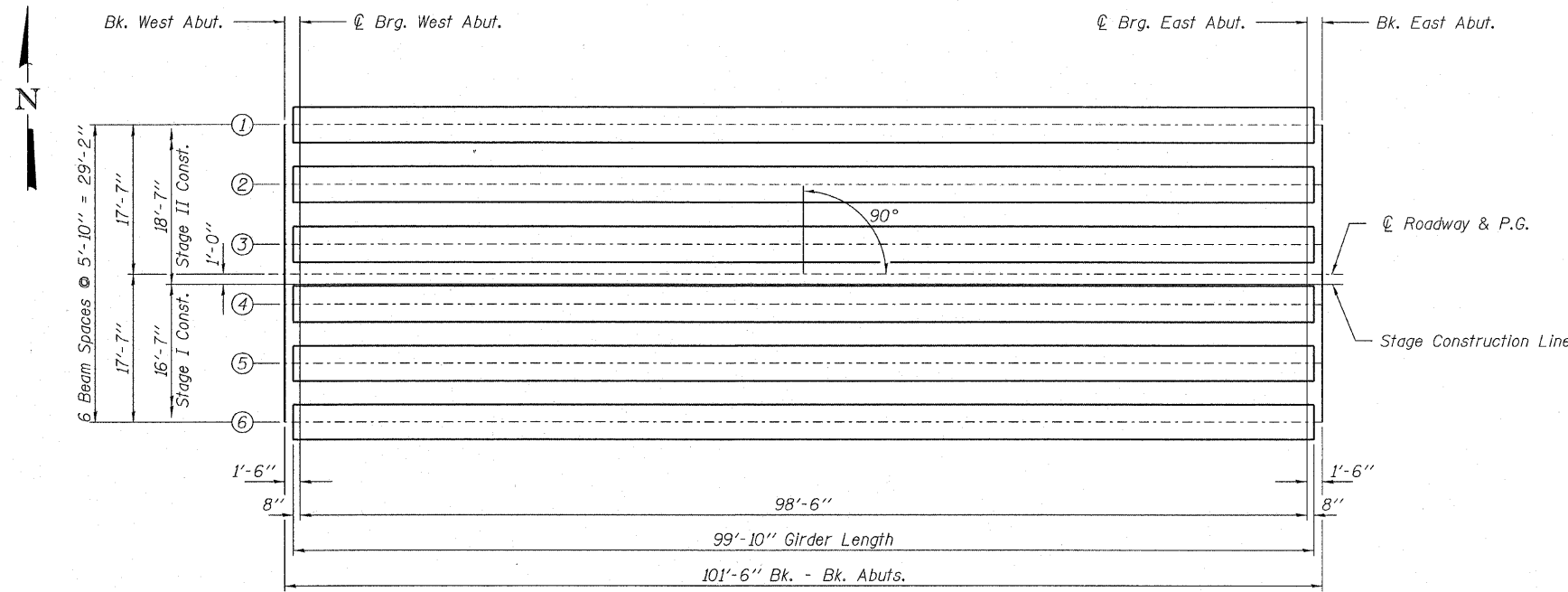
Beam ends shall be set on an initial $\frac{1}{2}$ " min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 029-0066

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
HLR
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

SHEET NO. 13 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	665	(144-B)BR	FULTON	67	29
	IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					



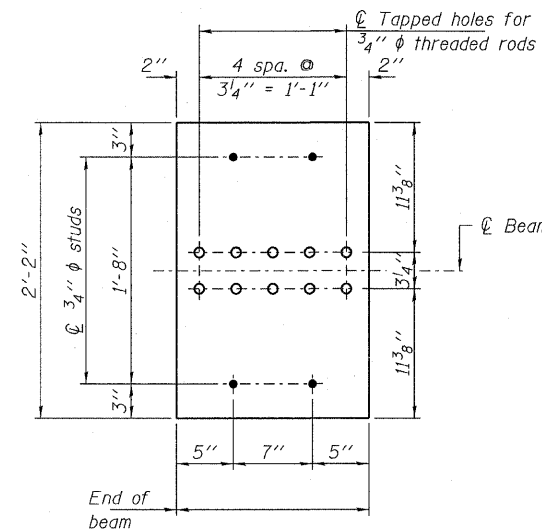
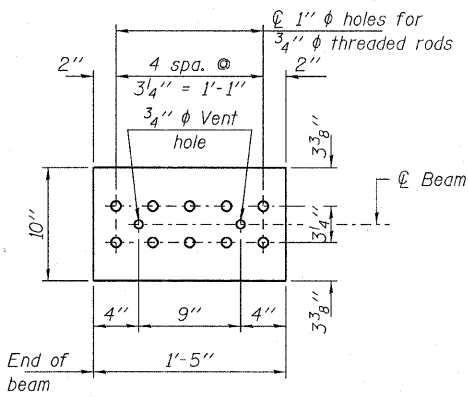
PLAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in ⁴)	392,638
I'	(in ⁴)	701,203
S _b	(in ³)	12,224
S _b '	(in ³)	15,743
S _t	(in ³)	12,715
S _t '	(in ³)	37,985
Q	(k/ft.)	1.33
M _Q	(k)	1,623
s _Q	(k/ft.)	0.43
M _{s_Q}	(k)	522
M _l	(k)	795
M _(Imp)	(k)	175

INTERIOR BEAM REACTION TABLE		
		Abut.
R _Q	(k)	66.5
R _{s_Q}	(k)	20.5
R _l	(k)	34.6
R _(Imp)	(k)	7.6
R _(Total)	(k)	129.2

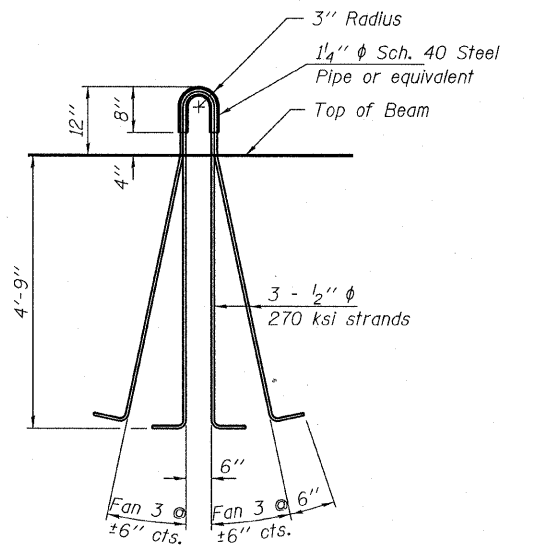
DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

- I Non-composite moment of inertia of beam section (in⁴).
- I' Composite moment of inertia of beam section (in⁴).
- S_b Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' Composite section modulus for the top fiber of the prestressed beam (in³).
- Q Un-factored non-composite dead load (kips/ft).
- M_Q Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft).
- s_Q Un-factored long-term composite (superimposed) dead load (kips/ft).
- M_{s_Q} Un-factored moment due to long-term composite (superimposed) dead load (kip-ft).
- M_l Un-factored live load moment on the composite section (kip-ft).
- M_(Imp) Un-factored moment due to impact on the composite section (kip-ft).



BOTTOM PLATE

See bearing details for pinhole locations when required.



LIFTING LOOP DETAIL

NOTES

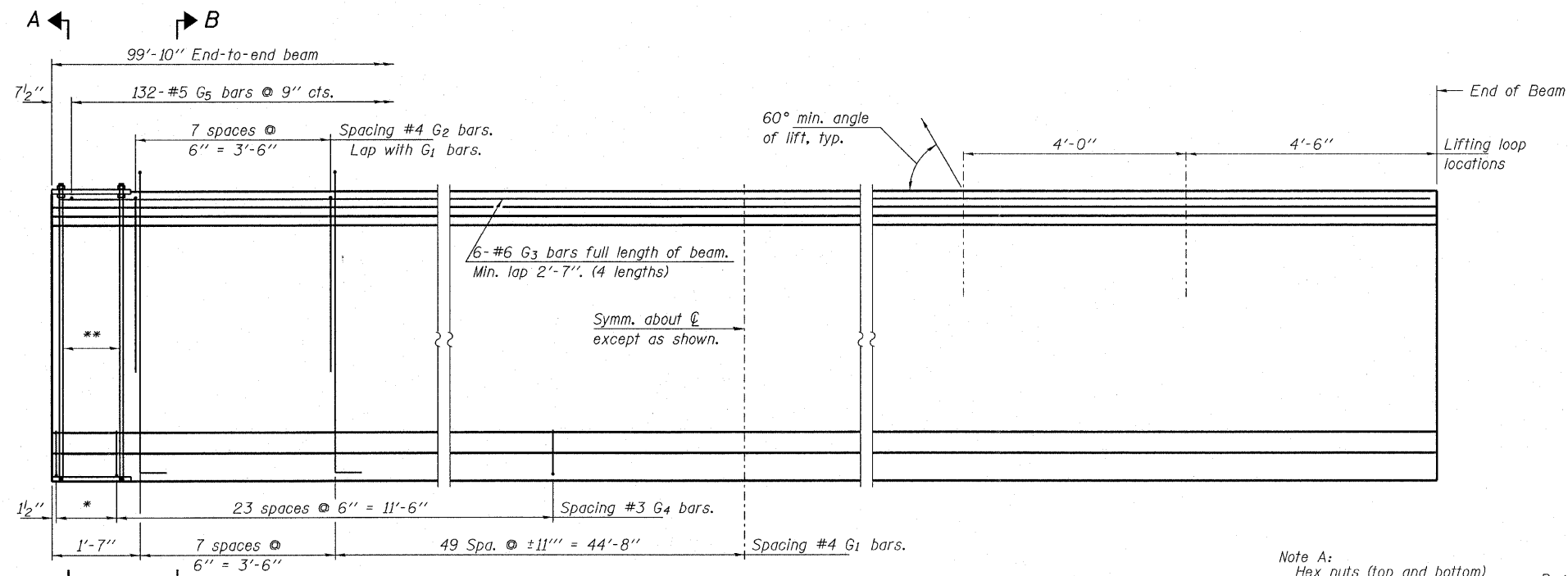
- Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
- The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.
- A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
- Cut G₆ bars when necessary to maintain 1/2" clearance.
- The top and bottom plates shall be AASHTO M270 Grade 50.
- The bottom plates and studs shall be galvanized according to AASHTO M111.
- Threaded rods shall be ASTM F 1554 Grade 55.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	599

FRAMING PLAN & BEAM DETAILS
STRUCTURE NO. 029-0066

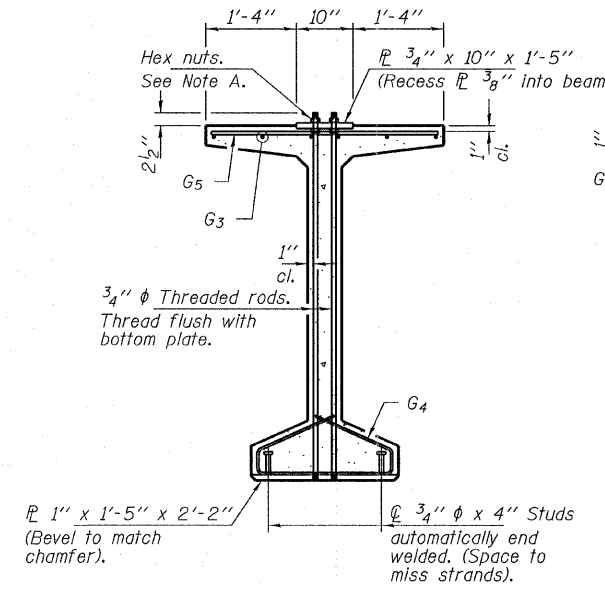
HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 14	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	30
			IL 116 OVER LITTLERS CREEK	CONTRACT NO. 68091		
		FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		



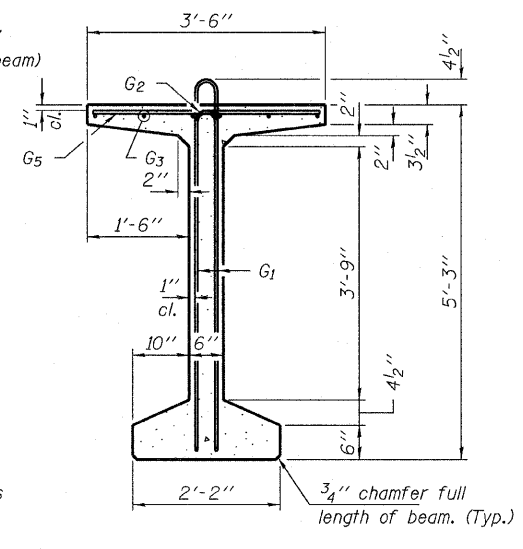
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 4 Spa. @ 3/4" = 1'-1"
 ** 5-3/4" ϕ threaded dowel rods @ 3/4" cts., Each Face.

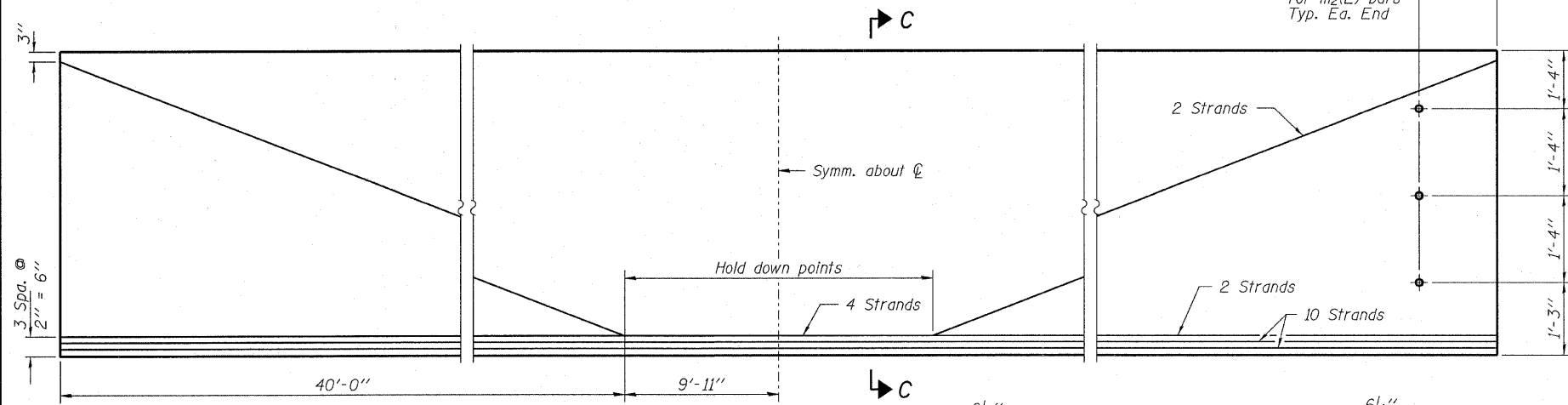
Note A:
 Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



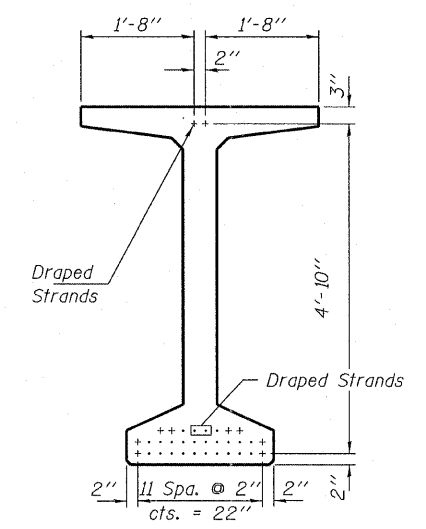
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



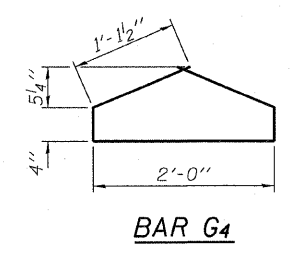
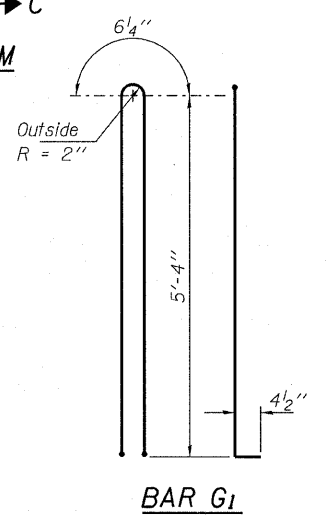
SECTION C-C

***BAR LIST**

Bar	No.	Size	Length	Shape
G1	114	#4	11'-11"	∩ L
G2	16	#6	10'-2"	∩
G3	24	#6	26'-9"	—
G4	56	#3	4'-11"	∩
G5	132	#5	3'-4"	—

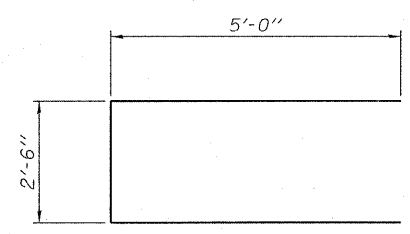
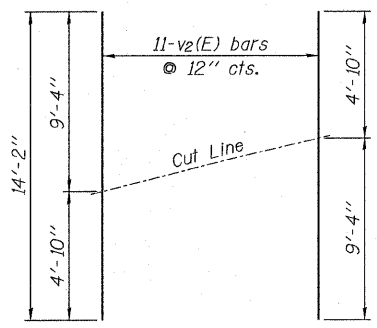
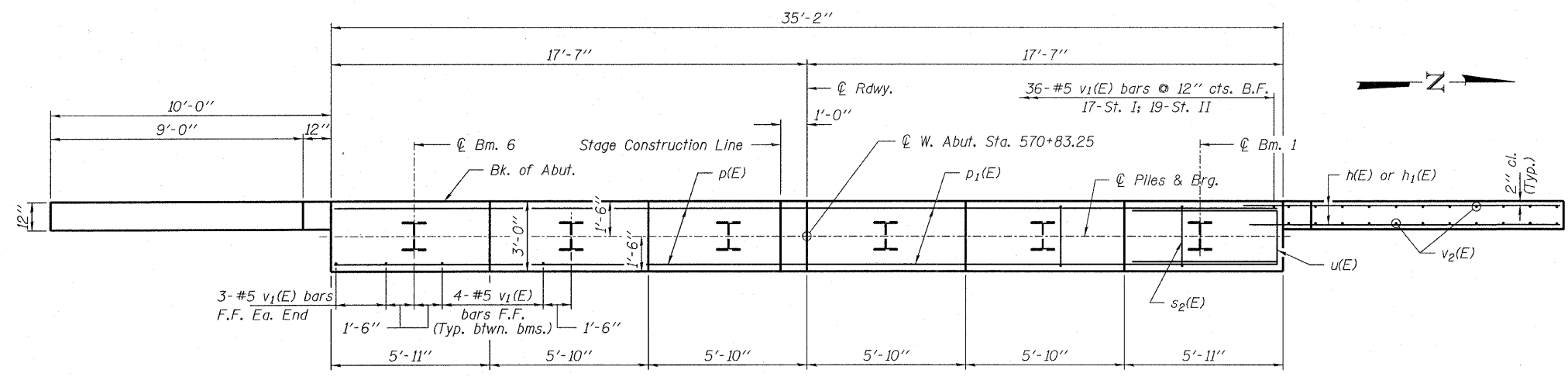
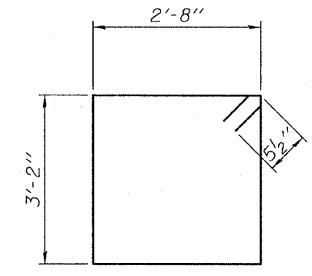
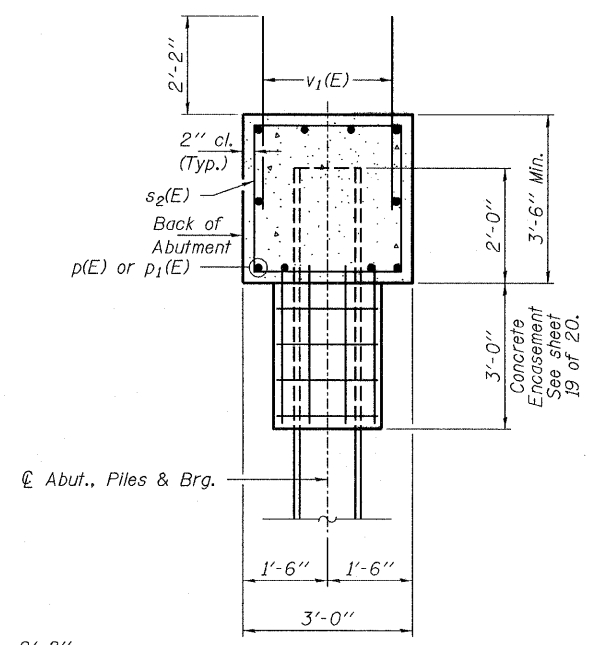
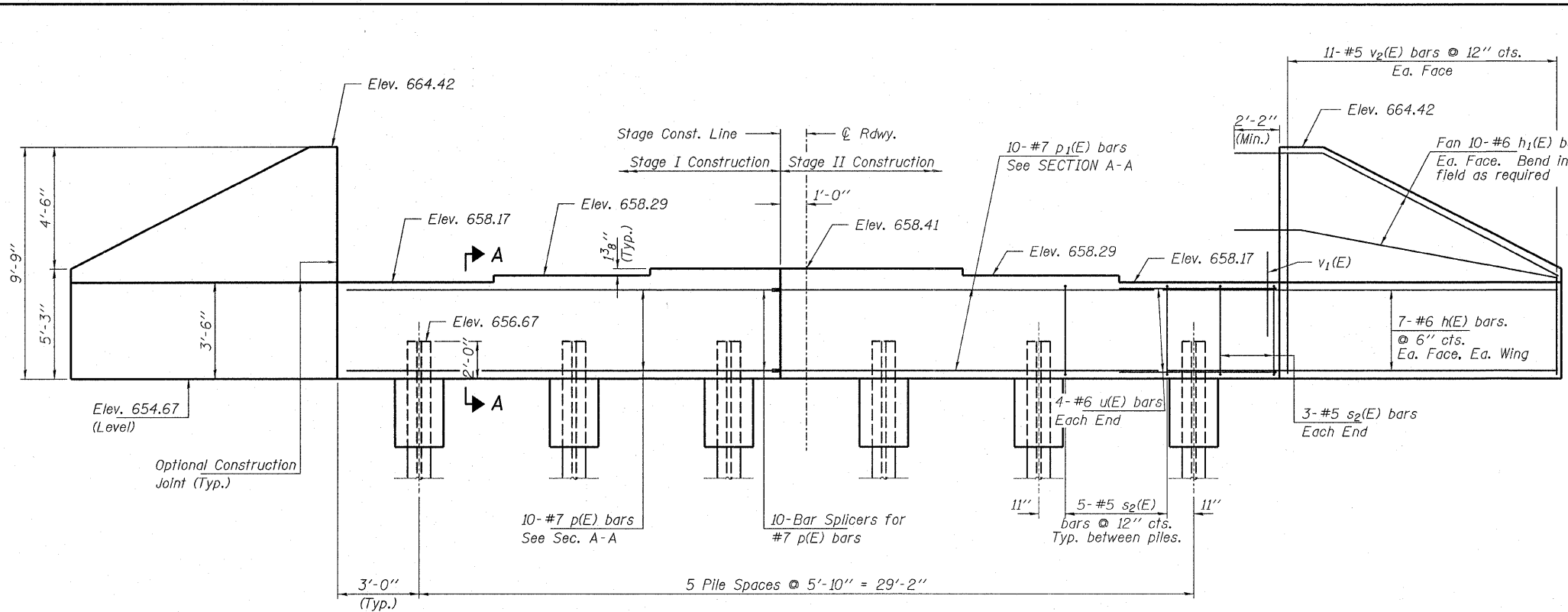
*For one beam only.

Notes:
 See sheet 14 of 20 for additional details and Bill of Material.
 Required release strength, f'_{ci} , shall be 5,000 psi.



DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 15	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	20 SHEETS	665	(144-B)BR	FULTON	67	31	
			IL 116 OVER LITTLERS CREEK				CONTRACT NO. 68091
			FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



PILE DATA

Type Steel HP12x63 w/Pile Shoe
 No. Req'd. (W. Abut.) 6
 Allowable Resistance Available 165 Kips/Pile
 Nominal Req'd Bearing 496 Kips/Pile
 Est. Length 27 Ft/Pile

Notes: * Includes one test pile to be driven in permanent location at the West Abutment.

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

BILL OF MATERIAL - W. ABUT.

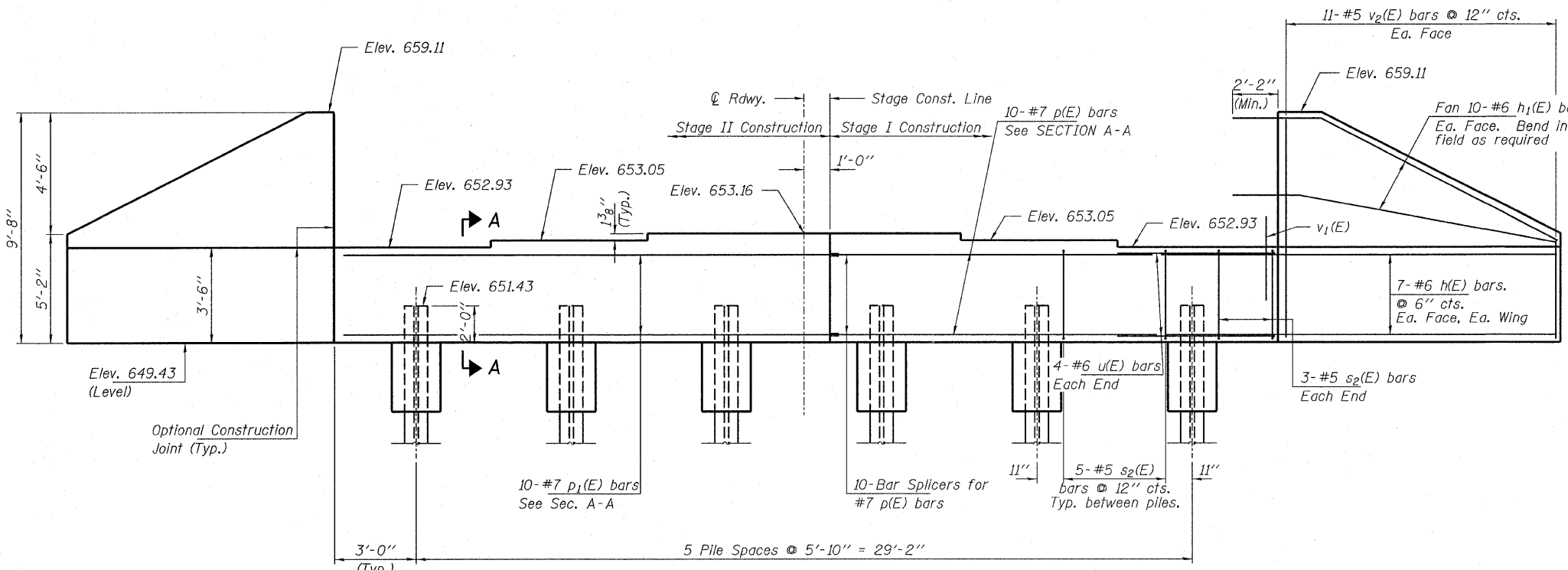
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	28	#6	12'-0"	—
h ₁ (E)	40	#6	13'-3"	—
p(E)	10	#7	16'-4"	—
p ₁ (E)	10	#7	18'-4"	—
s ₂ (E)	31	#5	12'-7"	□
u(E)	8	#6	12'-6"	—
v ₁ (E)	62	#5	4'-4"	—
v ₂ (E)	22	#5	14'-2"	—
Concrete Structures			Cu. Yd.	20.0
Reinf. Bars, Epoxy Coated			Pound	3,170
Furnishing Steel Piles HP 12x63			Foot	135
Driving Piles			Foot	135
Test Pile Steel HP 12x63			Each	1
Concrete Encasement			Cu. Yd.	2.1
Pile Shoes			Each	6

For Bar Splicer details see sheet 18 of 20.
 For Concrete Encasement details see sheet 19 of 20.

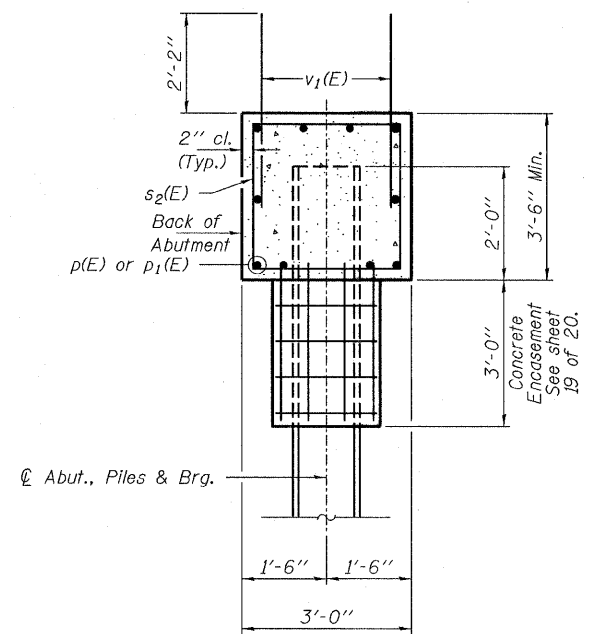
**WEST ABUTMENT
 STRUCTURE NO. 029-0066**

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

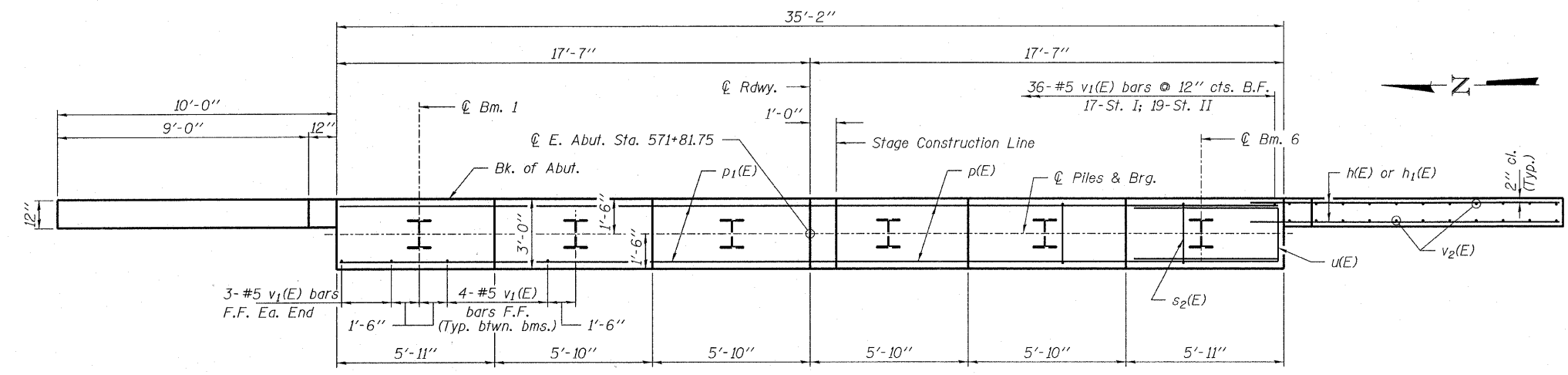
HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 16 20 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		665	(144-B)BR	FULTON	67	32
		IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



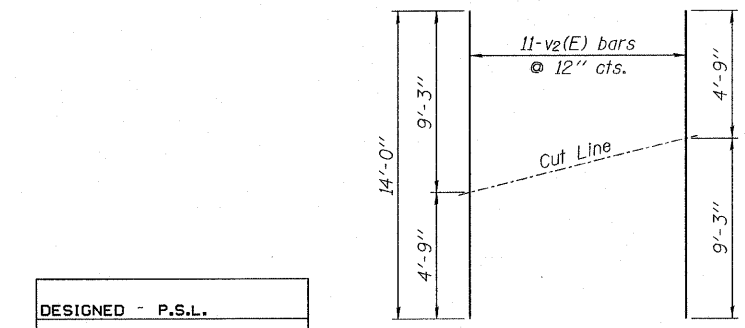
ELEVATION



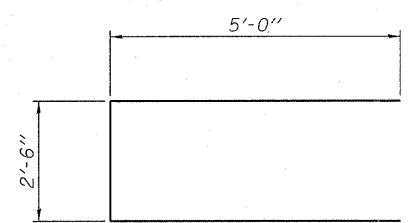
SECTION A-A



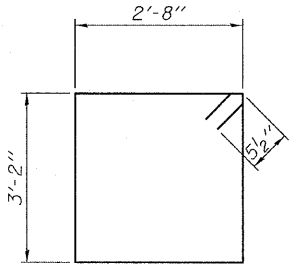
SECTION



FIELD CUTTING DIAGRAM
Order v2(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)



BAR s2(E)

BILL OF MATERIAL - E. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	28	#6	12'-0"	—
h1(E)	40	#6	13'-3"	—
p(E)	10	#7	16'-4"	—
p1(E)	10	#7	18'-4"	—
s2(E)	31	#5	12'-7"	□
u(E)	8	#6	12'-6"	—
v1(E)	62	#5	4'-4"	—
v2(E)	22	#5	14'-2"	—
Concrete Structures			Cu. Yd.	20.0
Reinf. Bars, Epoxy Coated			Pound	3,170
Furnishing Steel Piles HP 12x63			Foot	125
Driving Piles			Foot	125
Test Pile Steel HP 12x63			Each	1
Concrete Encasement			Cu. Yd.	2.1
Pile Shoes			Each	6

For Bar Splicer details see sheet 18 of 20.
For Concrete Encasement details see sheet 19 of 20.

**EAST ABUTMENT
STRUCTURE NO. 029-0066**

PILE DATA

Type	Steel HP12x63 w/Pile Shoe
No. Req'd. (E. Abut.)	6
Allowable Resistance Available	165 Kips/Pile
Nominal Req'd Bearing	496 Kips/Pile
Est. Length	25 Ft/Pile

Notes: *Includes one test pile to be driven in permanent location at the East Abutment.

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

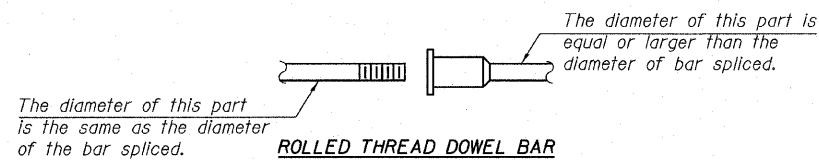
DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

HLR 3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

SHEET NO. 17	F.A.P. 665	SECTION (144-B)BR	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 33
20 SHEETS	IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					

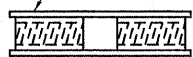


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

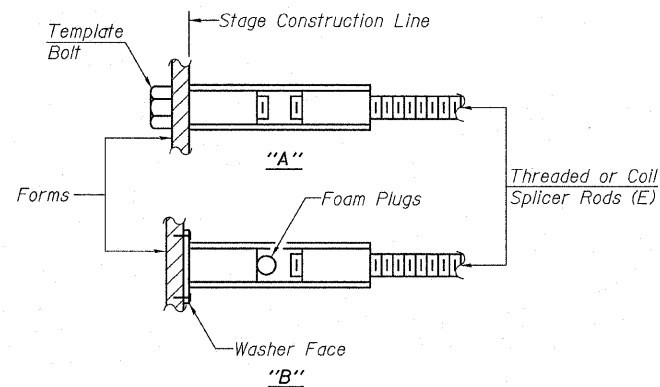
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

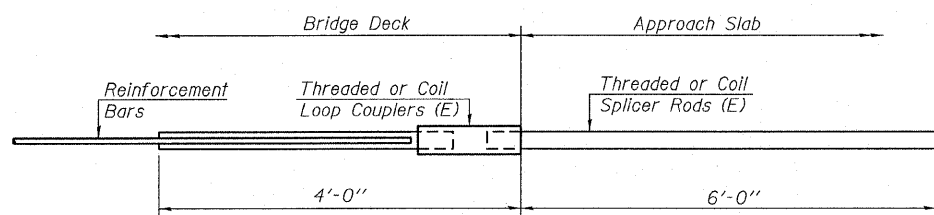
"A": Set bar splicer assembly by means of a template bolt.
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

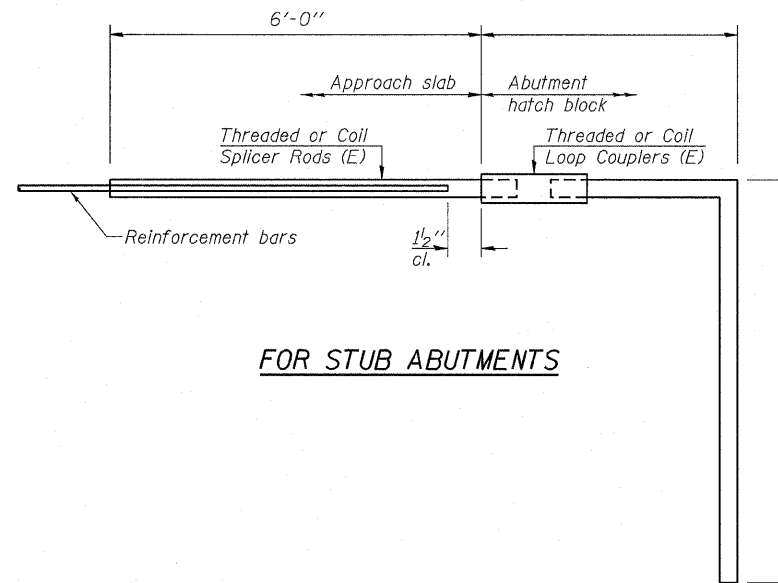
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

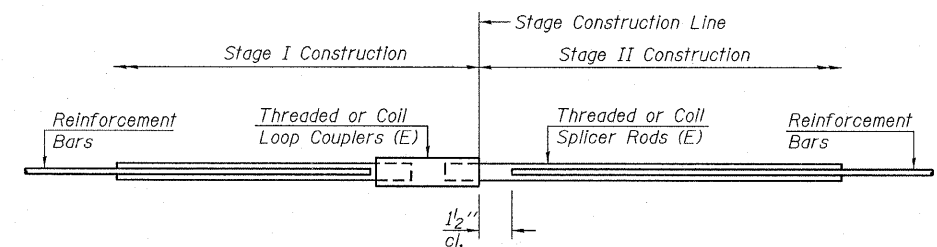
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 68

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

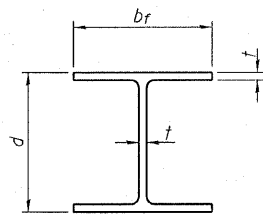
Bar Size	No. Assemblies Required	Location
#5	276	Deck
#6	18	Diaphragms
#7	20	Abutments

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

BSD-1 5-16-08

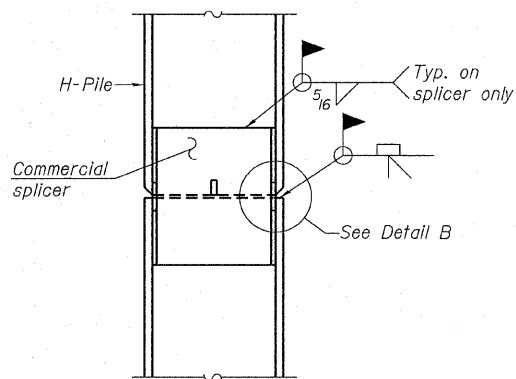
**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 029-0066**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 18	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	34
	PROJECT NUMBER: 13-37-0003-1	DATE: 07/31/08	IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091	
		FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

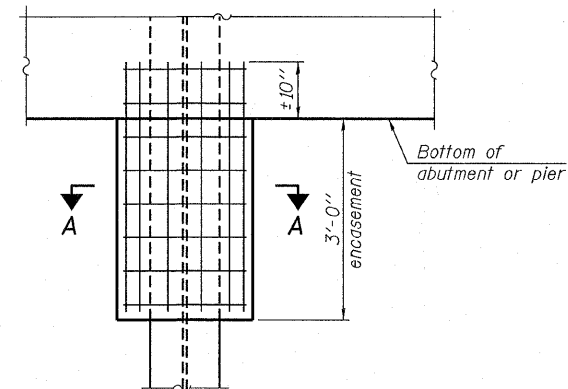


STEEL PILE TABLE

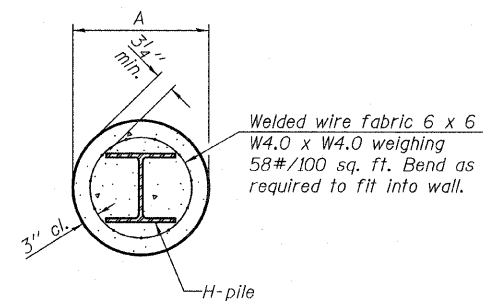
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

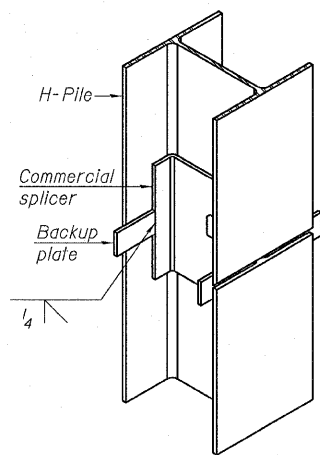


ELEVATION

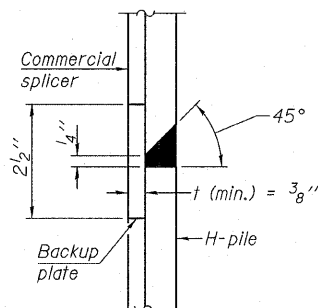


SECTION A-A

PILE ENCASEMENT

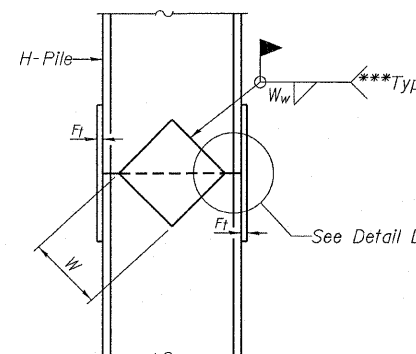


ISOMETRIC VIEW

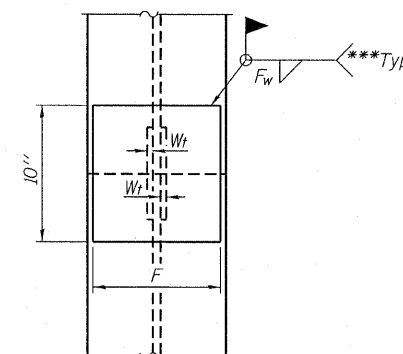


DETAIL "B"

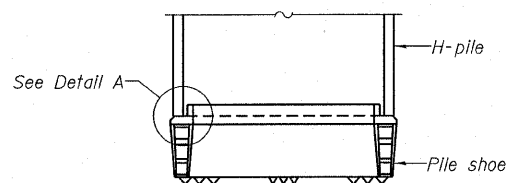
WELDED COMMERCIAL SPLICE



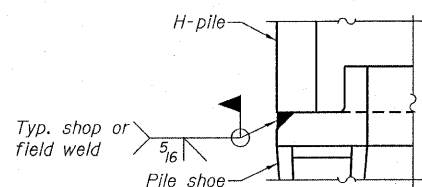
ELEVATION



END VIEW

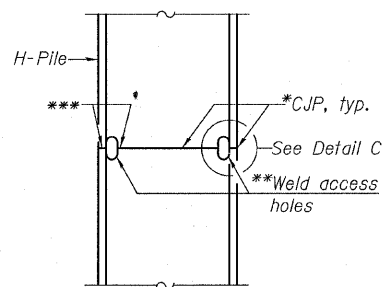


ELEVATION

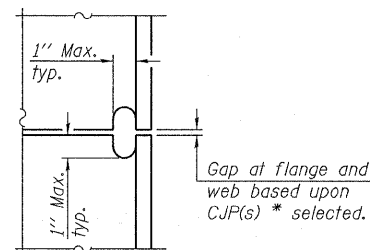


DETAIL A

H-PILE SHOE ATTACHMENT

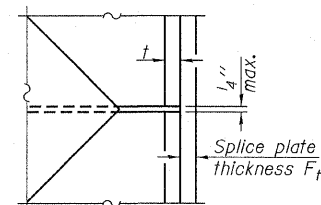


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	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"

**STEEL H PILE DETAILS
STRUCTURE NO. 029-0066**

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

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code-Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code-Steel.

***Interrupt welds 1/4" from end of each pile.

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

F-HP

5-16-08

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 19	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	665	(144-B)BR	FULTON	67	35
		IL 116 OVER LITTLERS CREEK			CONTRACT NO. 68091	
		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08



Illinois Department of Transportation

SOIL BORING LOG

Date 1/16/01

ROUTE FAP665 (IL116) DESCRIPTION IL 116 OVER LITTLERS CREEK; 2.5mi. W. OF FARMINGTON LOGGED BY KJT

SECTION (144B)BR LOCATION NE1/4 OF SW1/4, SEC. 4, TWP. 8N, RNG. 4E, 4th PM

COUNTY FULTON DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. EXIST. 029-0016 PROP. N/A Station (EXIST) 571+32.5 BORING NO. 1 (W. ABUT) Station 570+58.85 Offset 15.00ft RT Ground Surface Elev. 660.13 ft

Table with columns for Depth (ft), Blows (6"), UCS (tsf), Moisture (%), and Soil Description. Includes entries like 'Dk. Gray SILTY CLAY LOAM w/ traces of wood & gravel', 'Brown SILTY CLAY LOAM', 'Dk. Gray SANDY LOAM', and 'Gray SHALE'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

BORING

Table with 2 columns: Action (DESIGNED, CHECKED, DRAWN, CHECKED) and Name (P.S.L., M.D.C., D.A.B., M.D.C.)



Illinois Department of Transportation

SOIL BORING LOG

Date 1/17/01

ROUTE FAP665 (IL116) DESCRIPTION IL 116 OVER LITTLERS CREEK; 2.5mi. W. OF FARMINGTON LOGGED BY KJT

SECTION (144B)BR LOCATION NE1/4 OF SW1/4, SEC. 4, TWP. 8N, RNG. 4E, 4th PM

COUNTY FULTON DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. EXIST. 029-0016 PROP. N/A Station (EXIST) 571+32.5 BORING NO. 2 (E. ABUT) Station 571+79 Offset 17.00ft RT Ground Surface Elev. 634.37 ft

Table with columns for Depth (ft), Blows (6"), UCS (tsf), Moisture (%), and Soil Description. Includes entries like 'Brown SANDY GRAVEL', 'Brown SILTY CLAY LOAM', 'Brown SILTY CLAY', 'Gray SHALE', and 'Gray SANDY CLAY LOAM'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

BORING

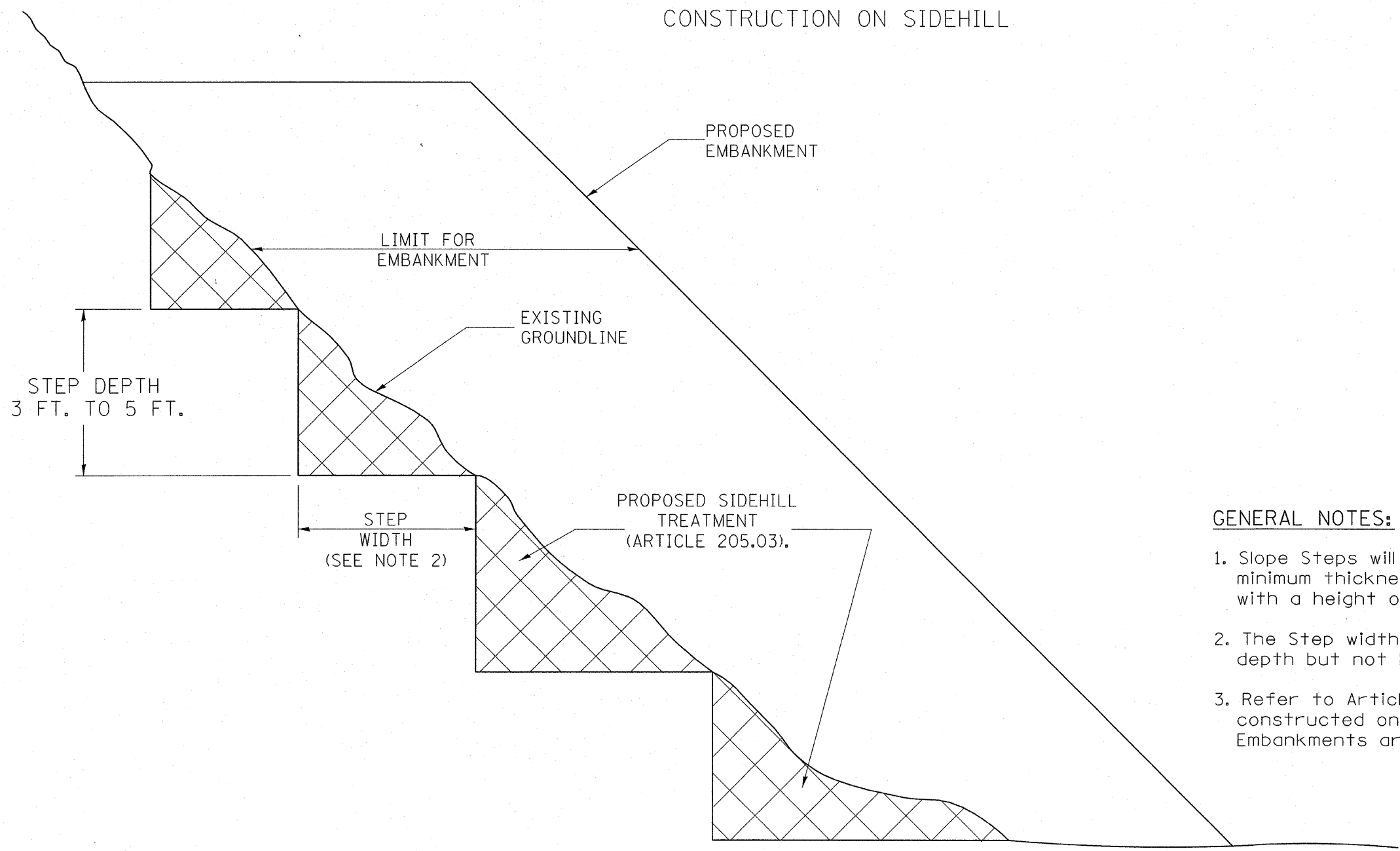
BORINGS STRUCTURE NO. 029-0066

Professional Engineer stamp for HAMPTON, LENZINI & RENWICK, INC. and project information including SHEET NO. 20, F.A.P. 665, SECTION (144-B)BR, COUNTY FULTON, TOTAL SHEETS 67, SHEET NO. 36, and CONTRACT NO. 68091.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



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

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.

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

REPLACEMENT MATERIAL:

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

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

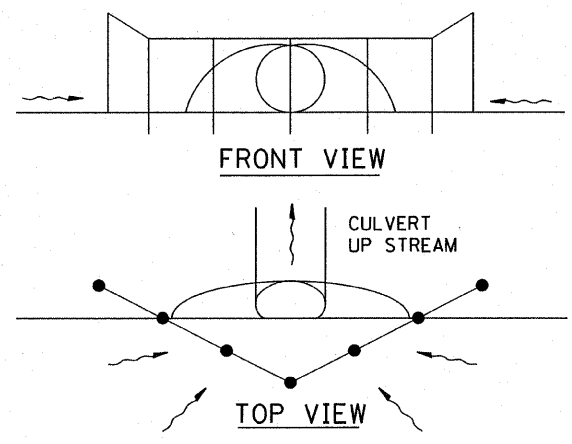
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

SLOPE STEPS DETAIL

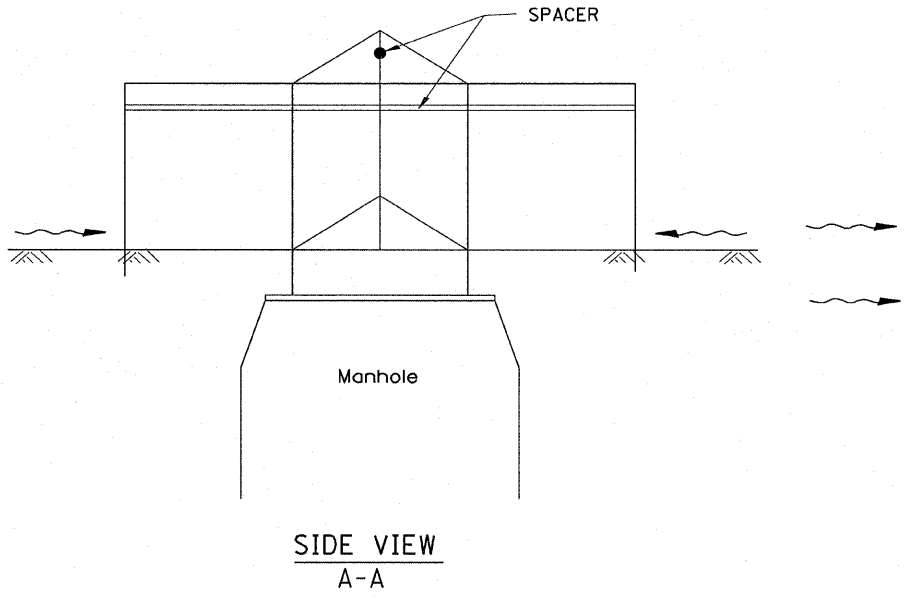
CADD STD. NO. 205001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

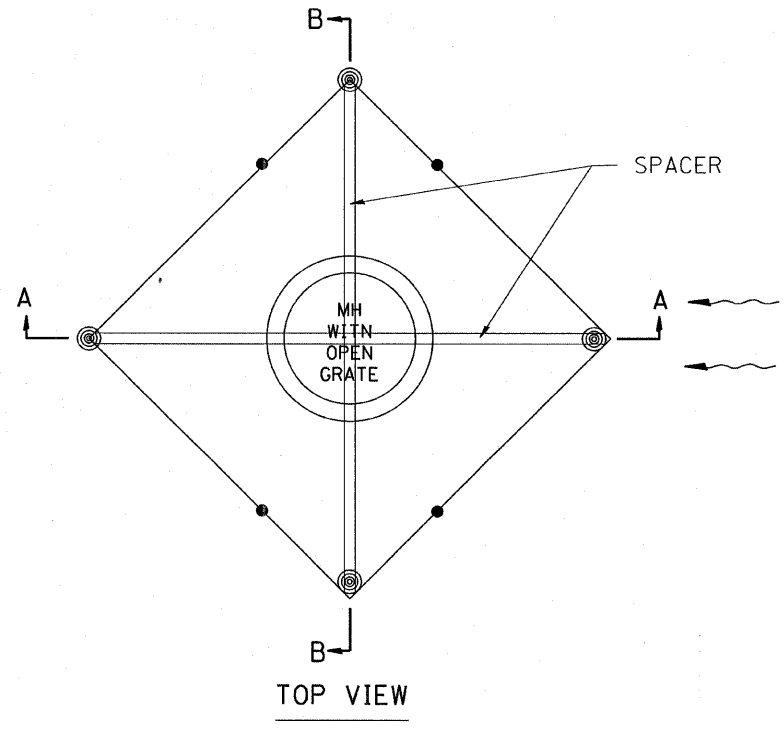
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



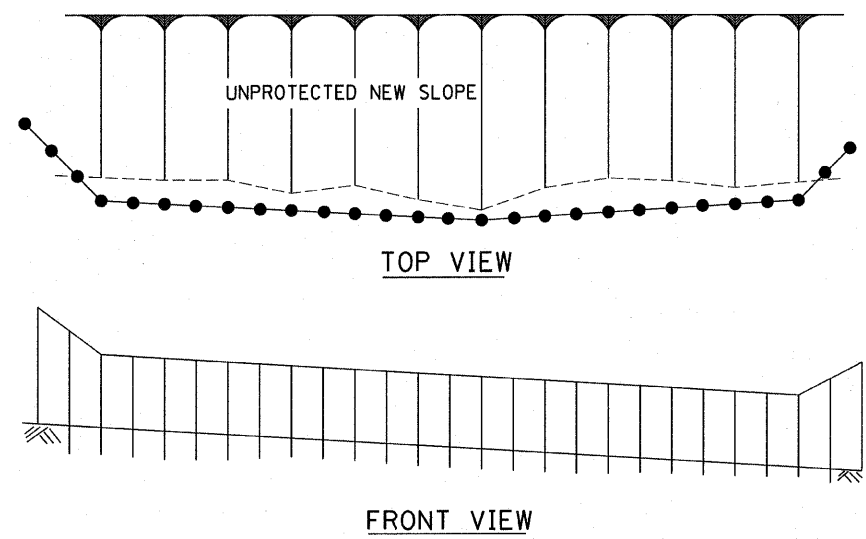
UPSTREAM PIPE CULVERT EROSION CONTROL



SIDE VIEW
A-A

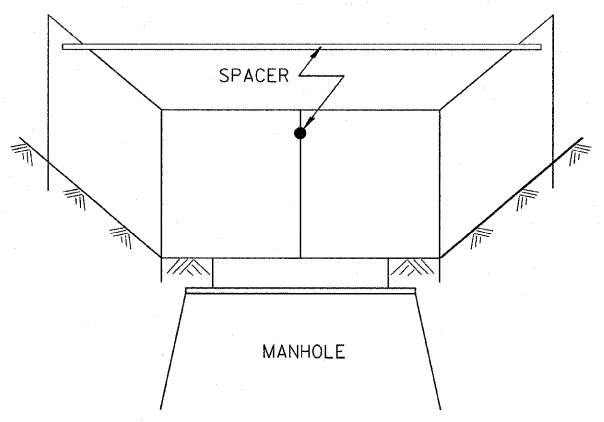


TOP VIEW



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.

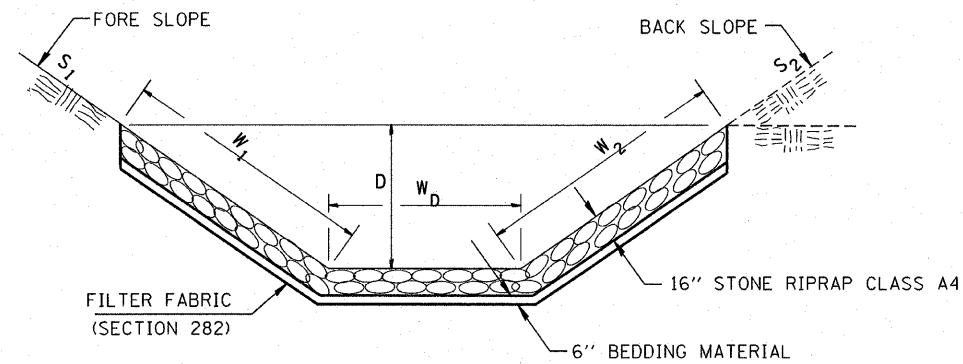
DATE	REVISIONS	BY
1-1-97	RENUM. A-12.05, NEW REVISION BOX	T.P.
3-11-03	ELIMINATED SILT FENCE DITCH CHECK	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAIL SHEET
TYPICAL APPLICATION
OF
SILT FILTER FENCE
CADD DETAIL 280001-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY

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."

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

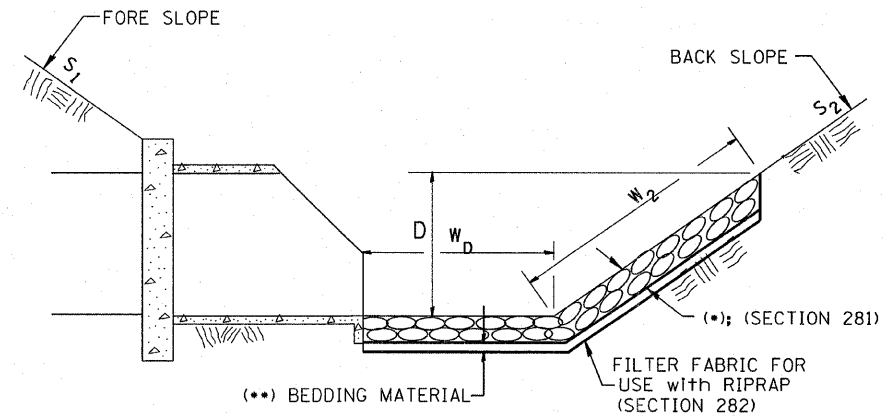
**CASE 1
(DITCH)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
LT. STA. 570+18 TO LT. STA. 571+35	12	117	81	160
LT. STA. 569+95 TO LT. STA. 570+60	12	95	66	130
TOTAL			147	290

(1) WIDTH = $W_1 + W_2 + W_D$

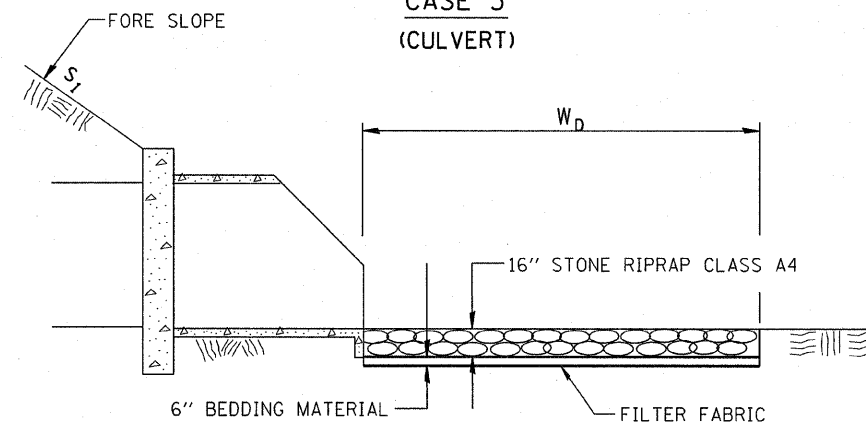
**CASE 2
(CULVERT & SLOPE)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_2 + W_D$

**CASE 3
(CULVERT)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
RT. STA. 571+97.25	8	8	5.5	7
LT. STA. 571+97.25	8	8	5.5	7
TOTAL			11	14

(1) WIDTH = W_D

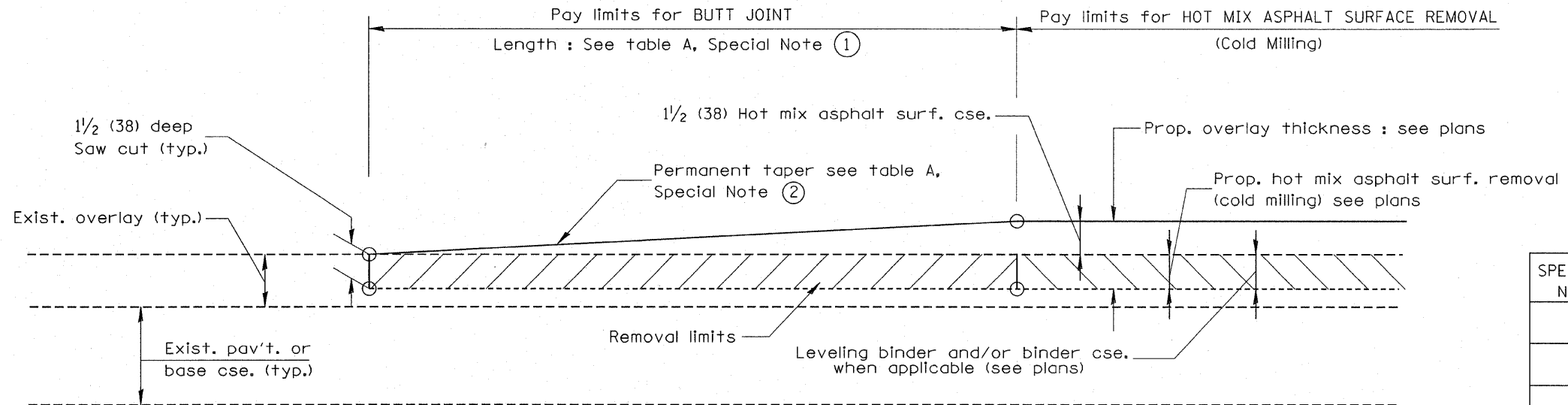
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAIL SHEET
RIPRAP DITCH FOR EROSION PROTECTION
CADD DETAIL 281001-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.02. NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

2. (*) Designer to specify pay item including material, quality, and gradation.
3. (**) Designer to specify thickness of bedding material.
4. Include District Special Provision if needed.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	40
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

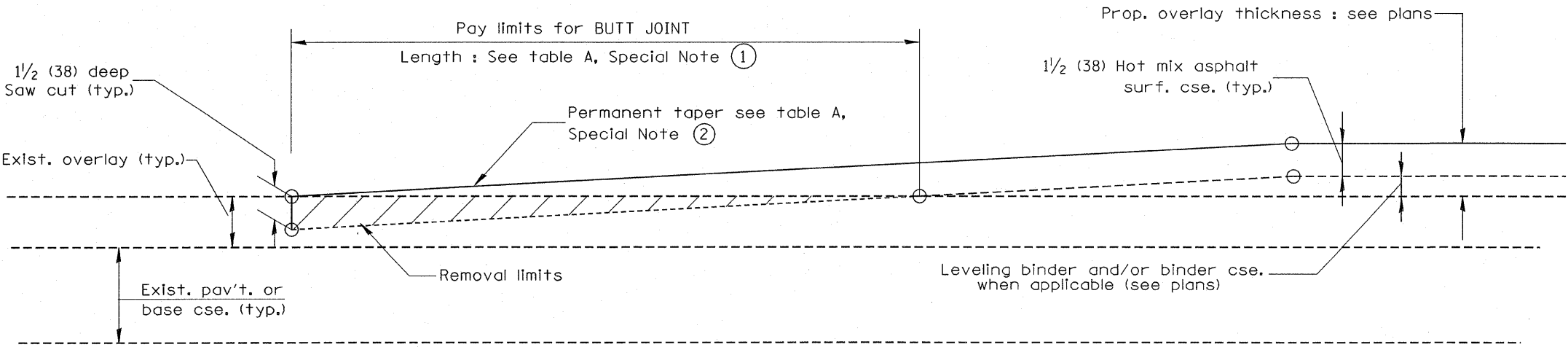
TABLE A
(LENGTHS AND TAPER RATES)

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

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

DESIGNER NOTES:
1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

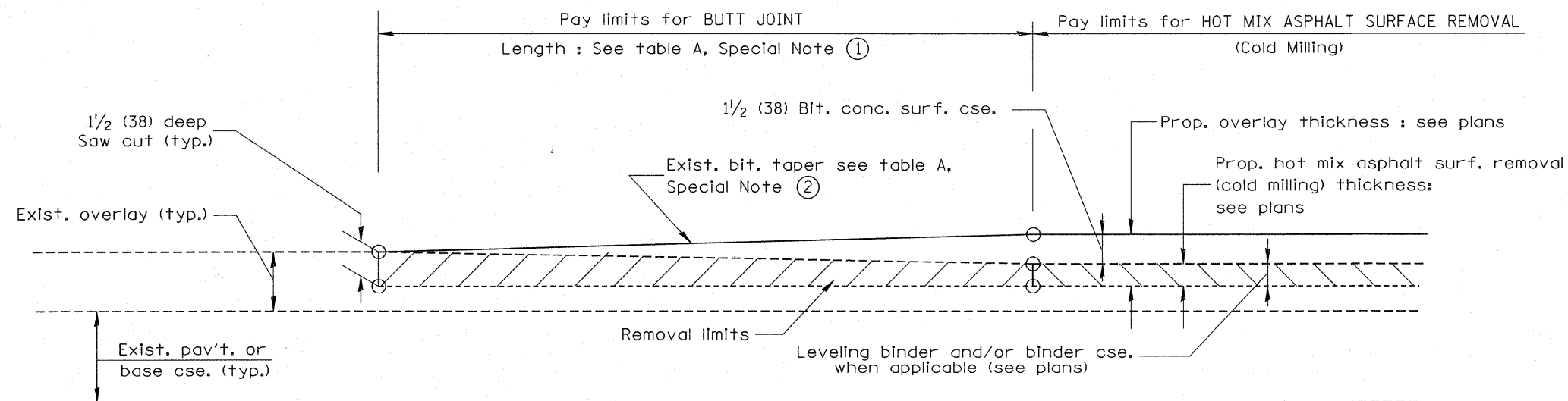
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

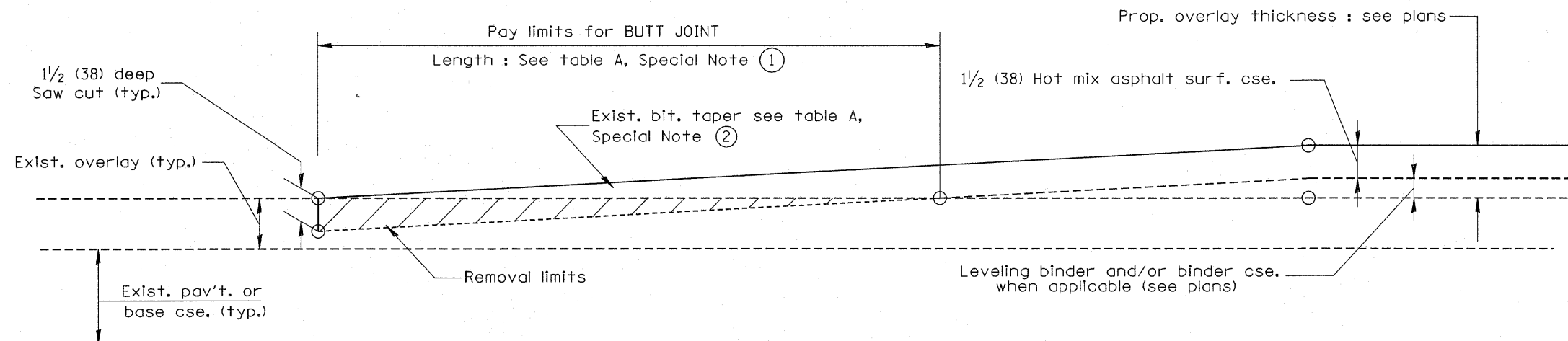
DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

BUTT JOINTS
CADD STD NO. 406101-D4 SHEET 1 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE CHECKED BY

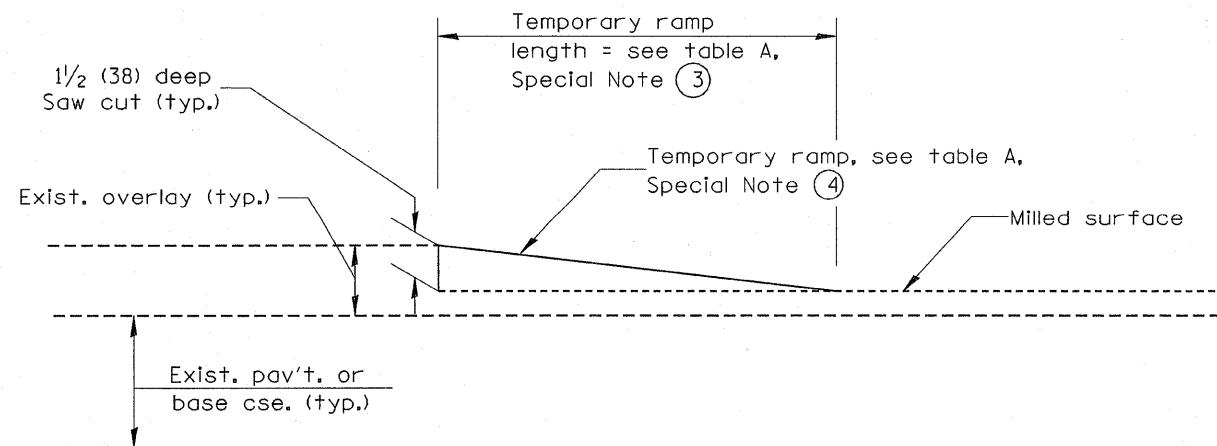
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



DETAIL TEMPORARY RAMP

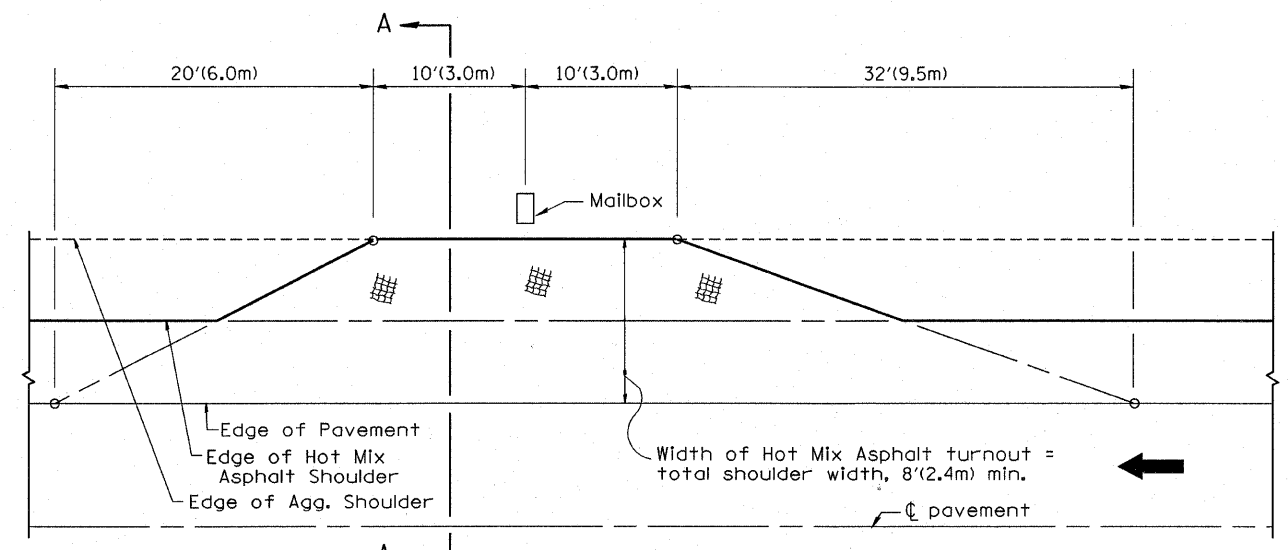
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

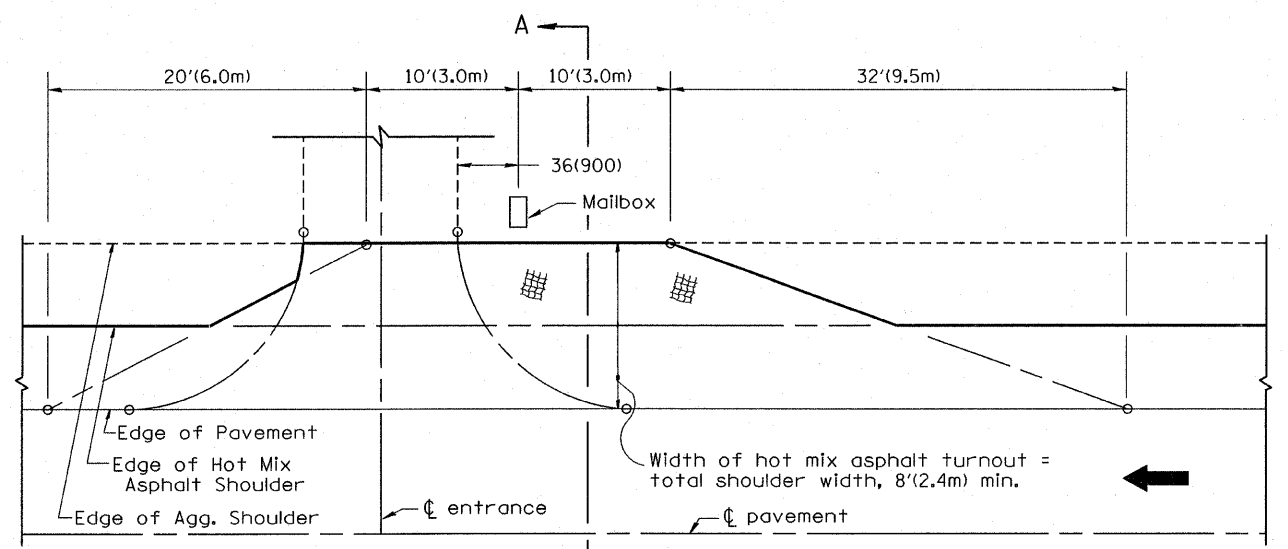
BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
CHECKED BY

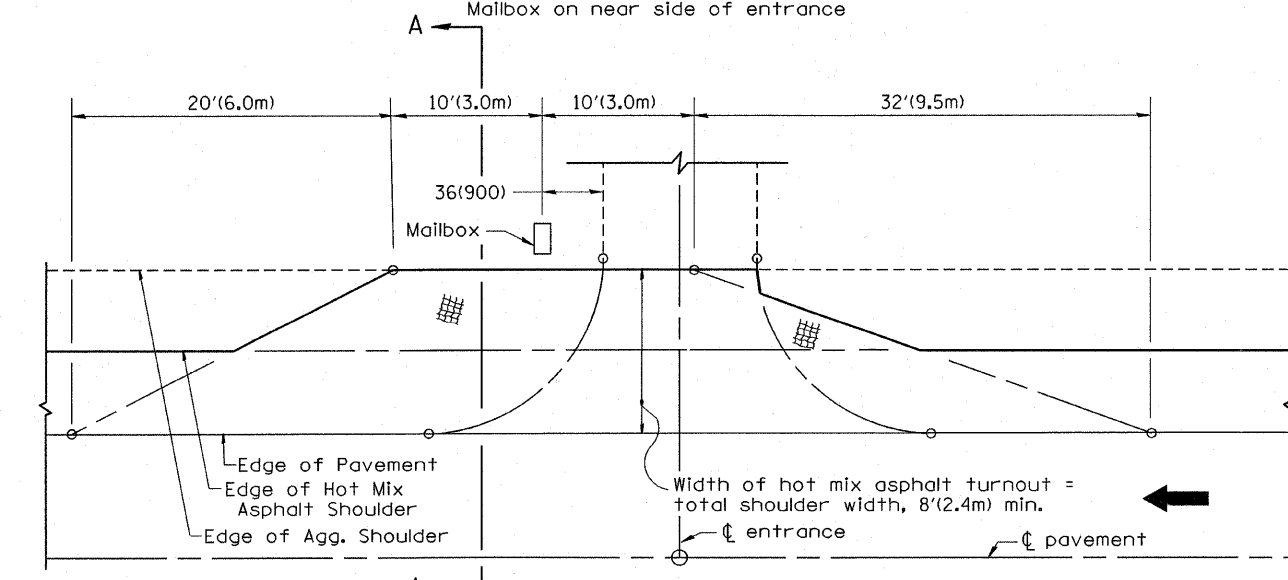
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



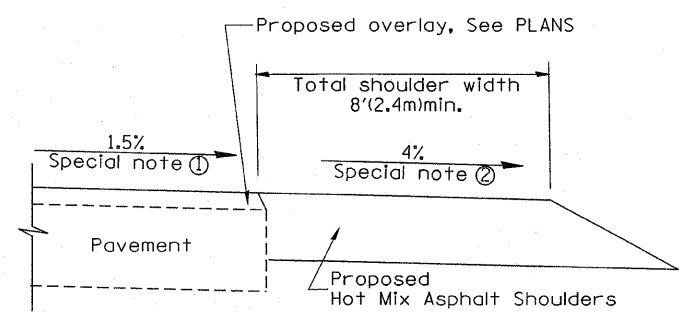
METHOD "T"
Typical Application



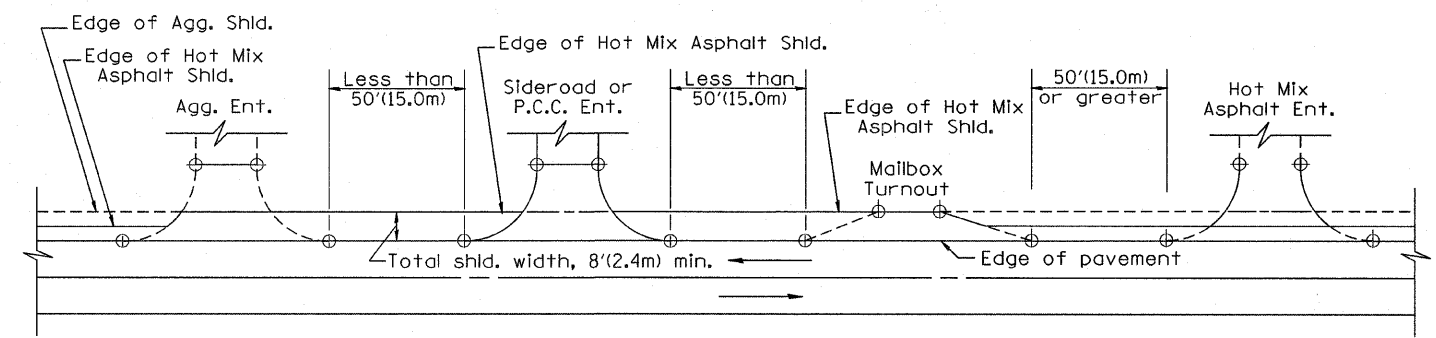
METHOD "N"



METHOD "F"



SECTION A-A



DETAIL A

SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS

GENERAL NOTES

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 6(150) to 12(300) and the post a minimum of 24(600) from the edge of the turnout surfacing.

SPECIAL NOTES

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6'(1.8m) and wider and 12% for shoulders 4'(1.2m) and less. Where 12(300) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

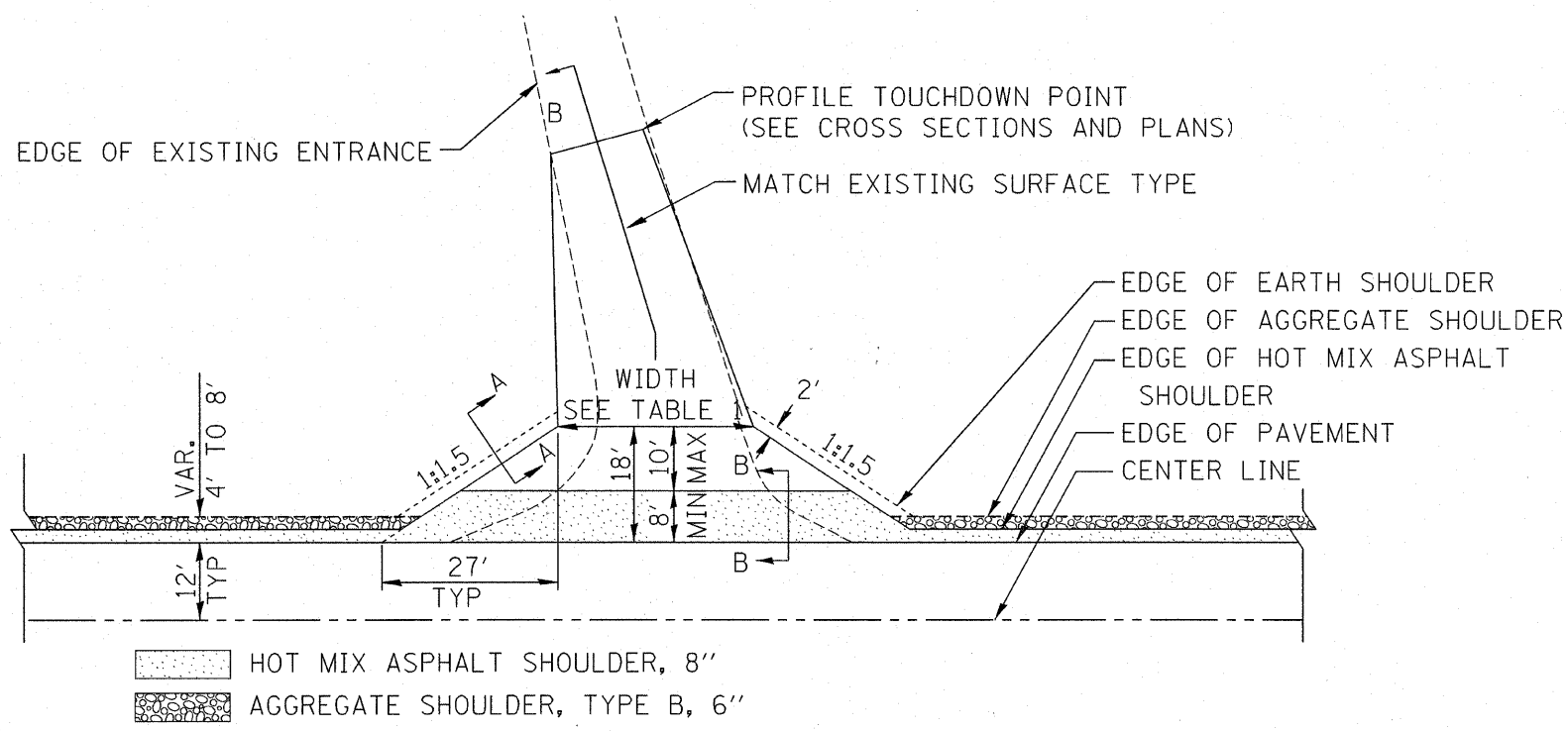
MAILBOX TURNOUTS FOR
"3R" PROJECTS

DATE	REVISIONS	BY
1-1-97	RENUM. C-90.01, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

CADD STD NO. 406201-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY: CADD
CHECKED BY: T. PICKERING

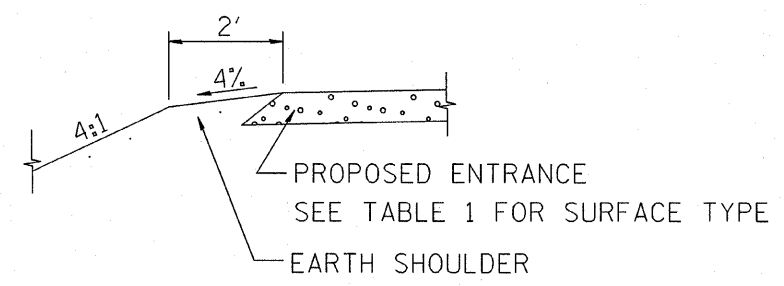
DESIGNER NOTE
1. THIS DRAWING REF. ACES STATE STANDARD 406201
2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
COMMERCIAL / FARM-RELATED ENTRANCE

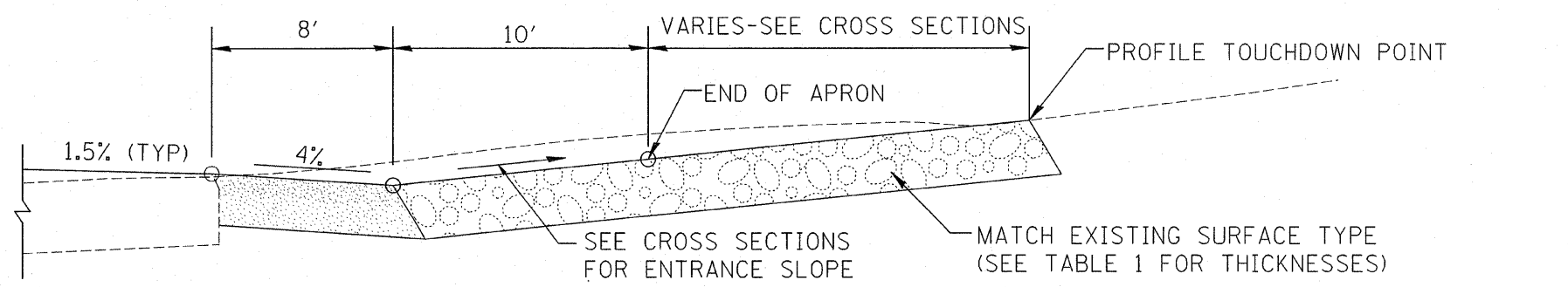
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL	
					1-WAY OPERATION	2-WAY OPERATION
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.
FLARE	1:1.5					
MAX. GRADE (G)	12%		12%		10%	
SURFACE TYPE						
INCIDENTAL HOT MIX ASPHALT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



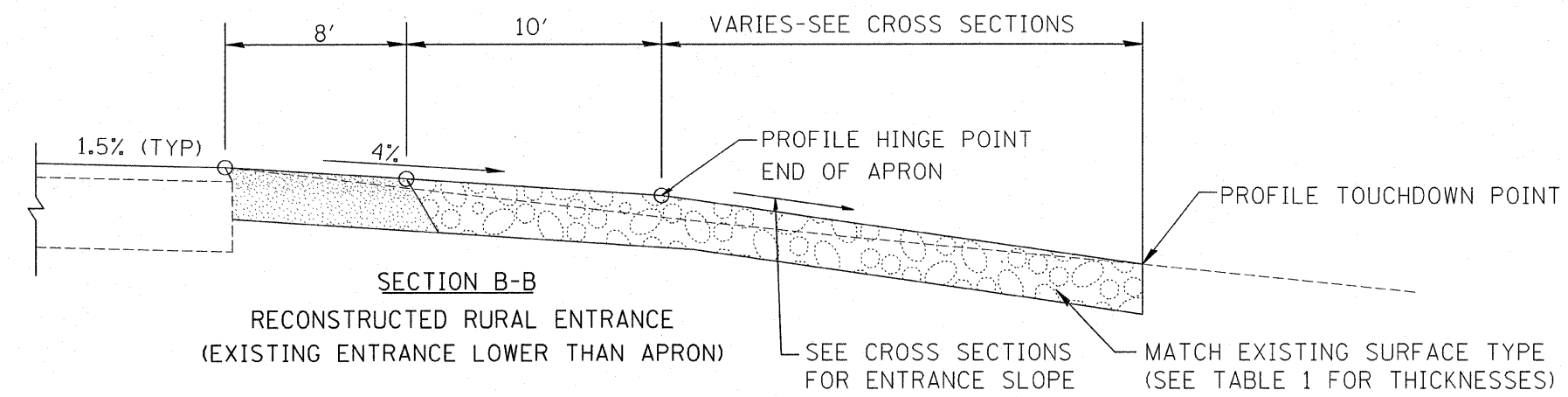
SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)

DATE	REVISIONS	BY
1-1-97	RENUM. C-103.06, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
1-17-03	ADJUST DESIGN, CHANGE ENTRANCE RADIUS FOR FLARE	J.A.T.R.
9-15-05	RADIUS FOR FLARE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

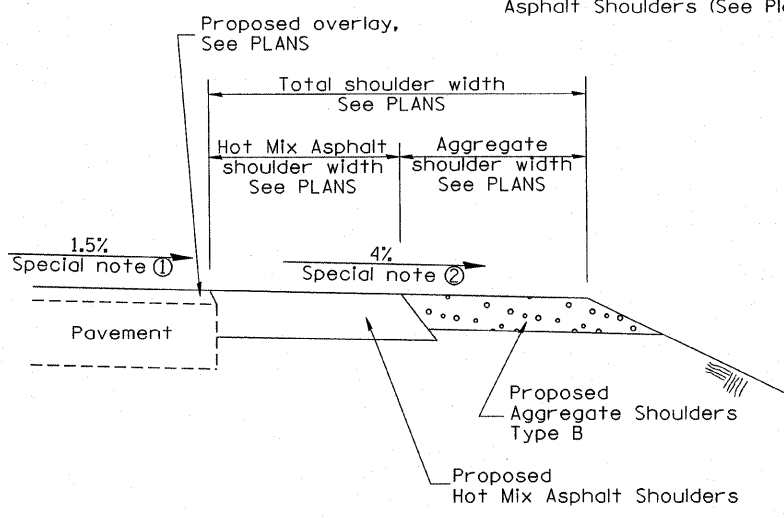
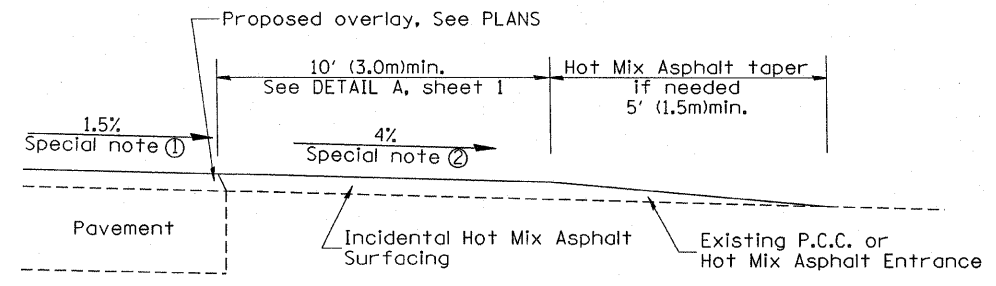
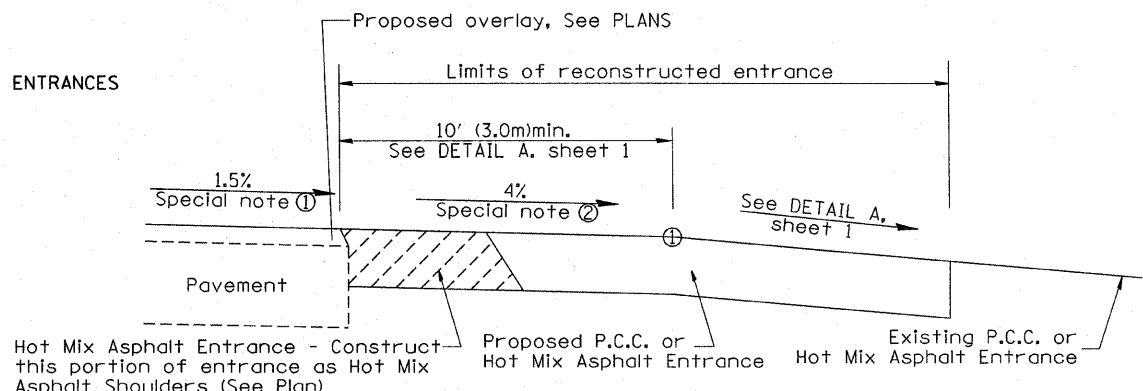
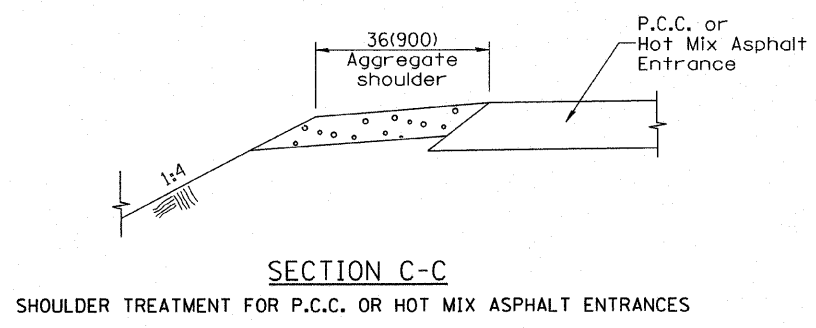
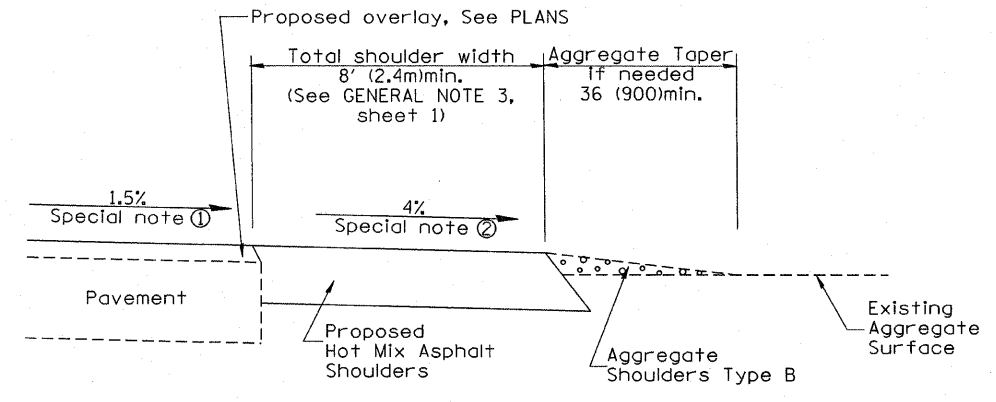
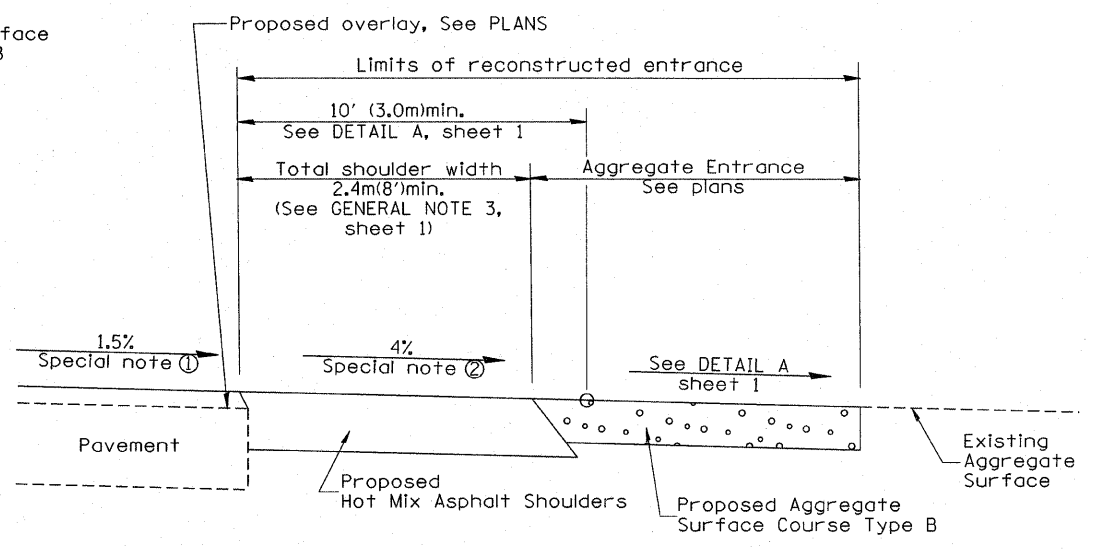
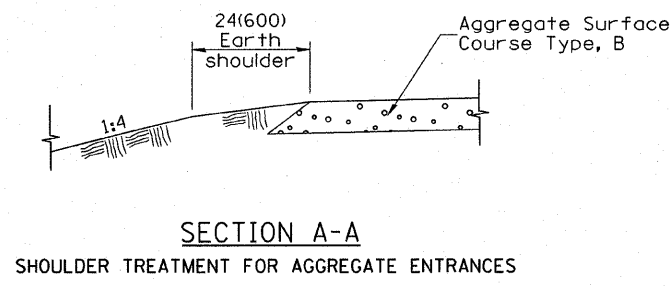
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

RURAL ENTRANCES FOR "3R" PROJECTS

SHEET 1 OF 2

CADD STD NO. 406301-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY: T. PICKERING
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



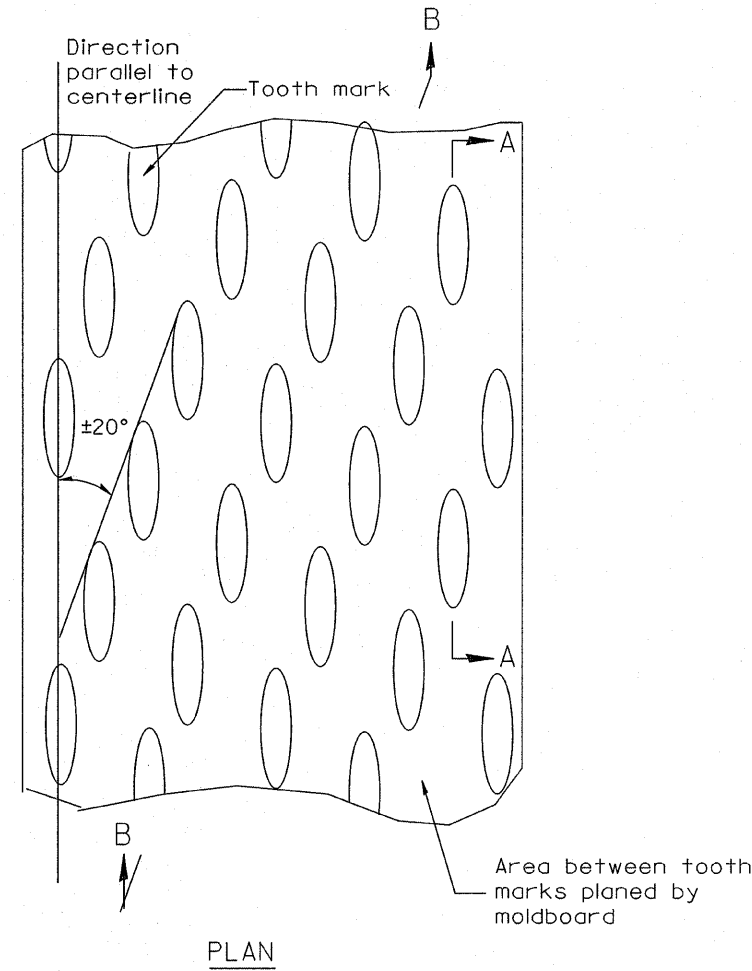
SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H). All dimensions are in inches (millimeters) unless otherwise noted.

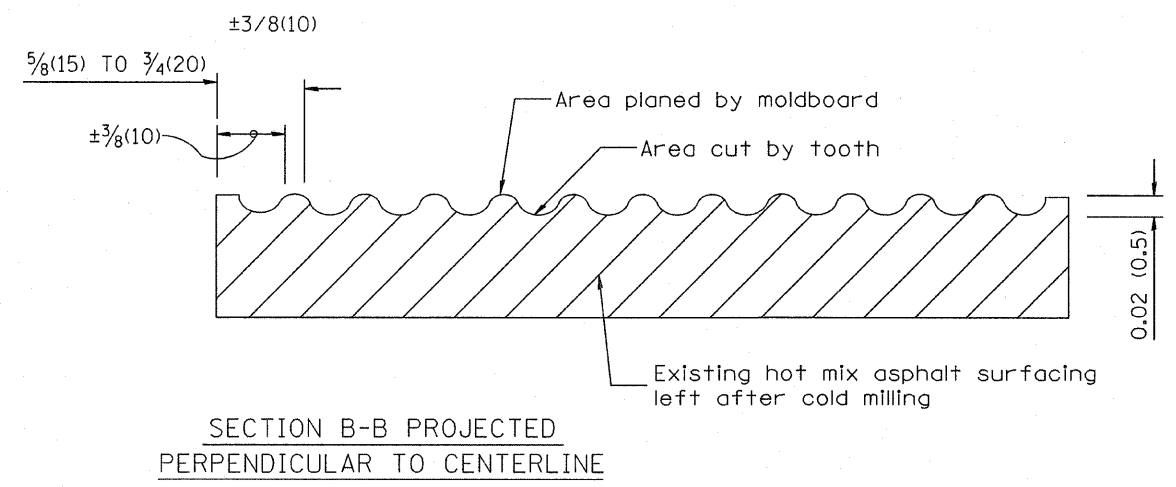
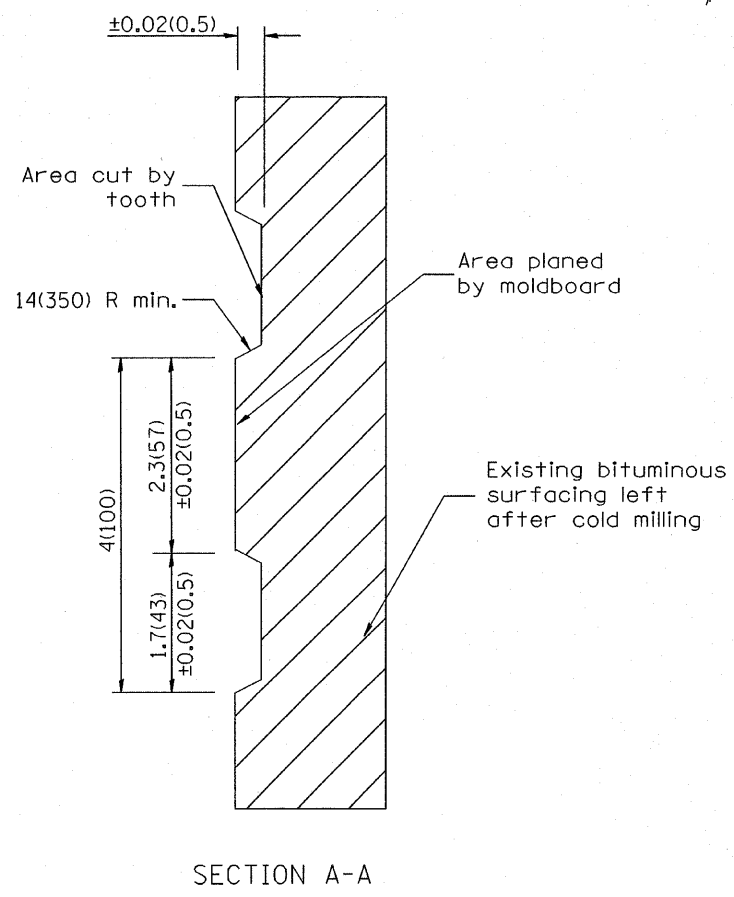
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
RURAL ENTRANCES FOR "3R" PROJECTS	
SHEET 2 OF 2	
CADD STD NO. 406301-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY: T. PICKERING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



General notes:

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



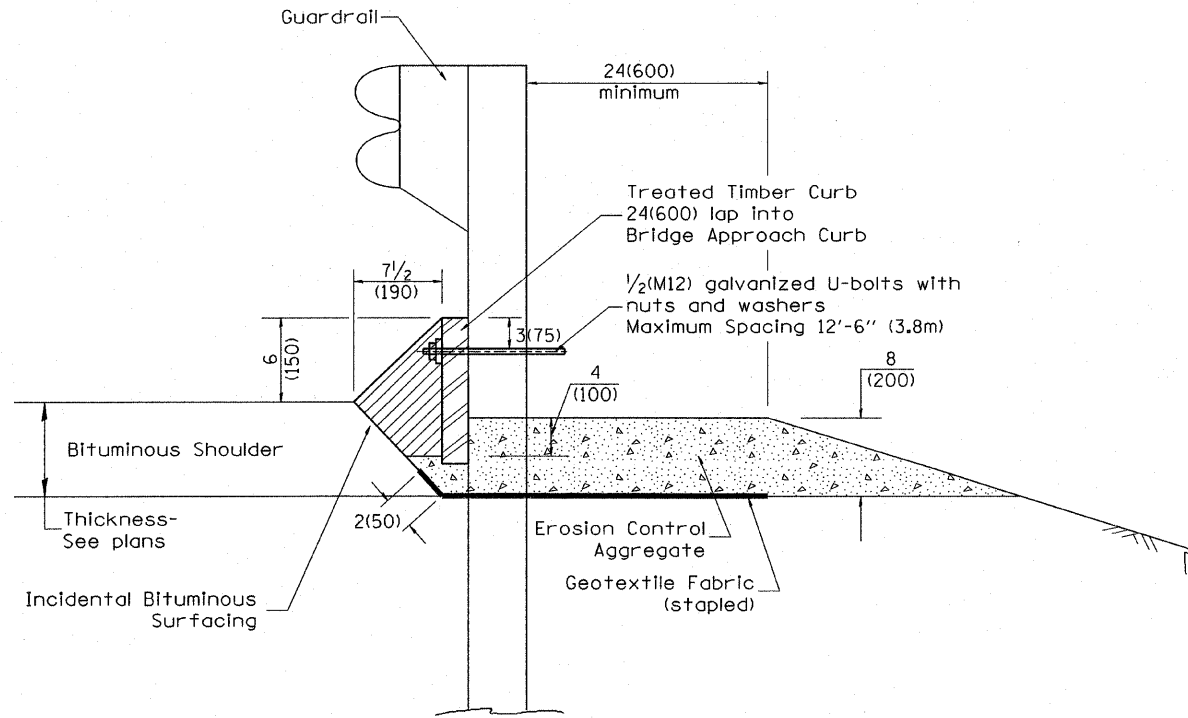
All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOT TO INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

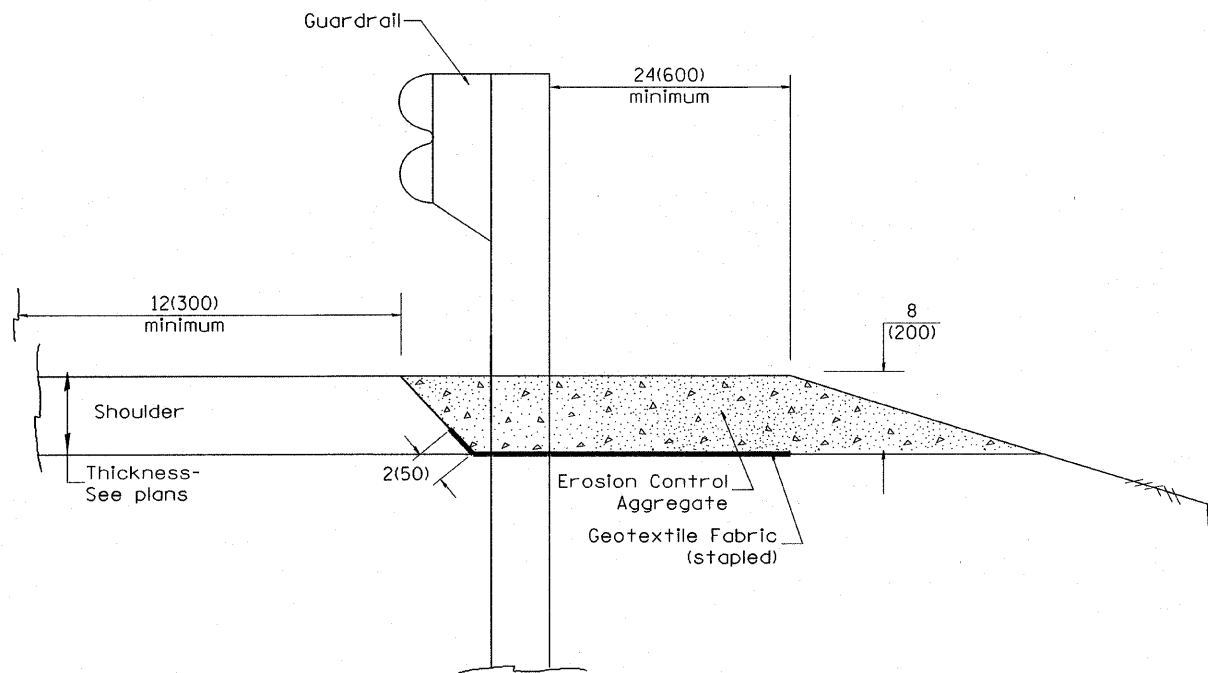
DATE	REVISIONS	BY
1-1-97	RENUM. C-104.01, NEW REVISION BOX	T. P.
4-20-98	REMOVED MILLING DETAIL FROM STD.	J. A.
9-08-98	CORRECT NOTE LEADER PLACEMENT	R. W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD
**HOT MIX ASPHALT
 SURFACE REMOVAL
 (COLD MILLING)**
 CADD STD NO. 440001-D4
 SCALE: NOT DRAWN TO SCALE
 DATE _____ DRAWN BY CADD
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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.

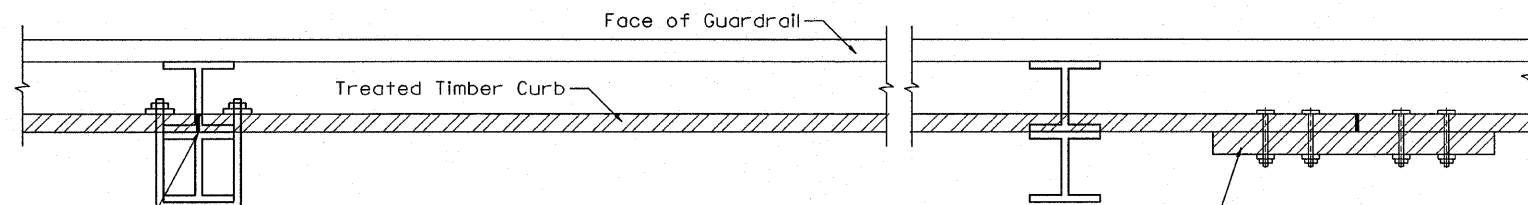
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(1)	SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. C-22.01, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-3-00	CORRECTION TO NOTES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

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.

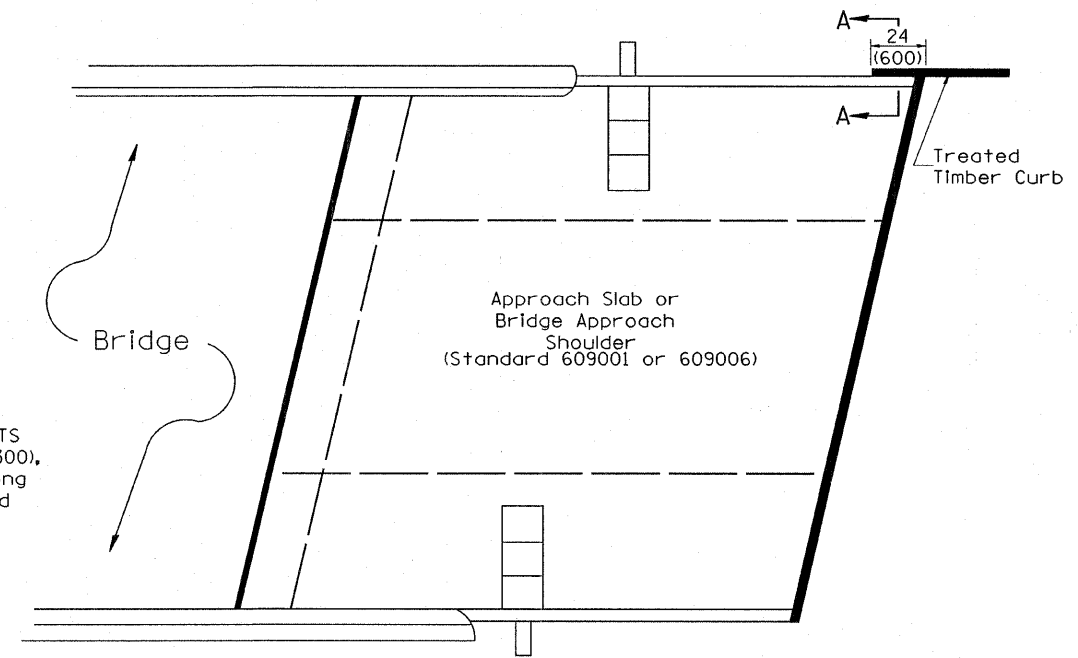
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



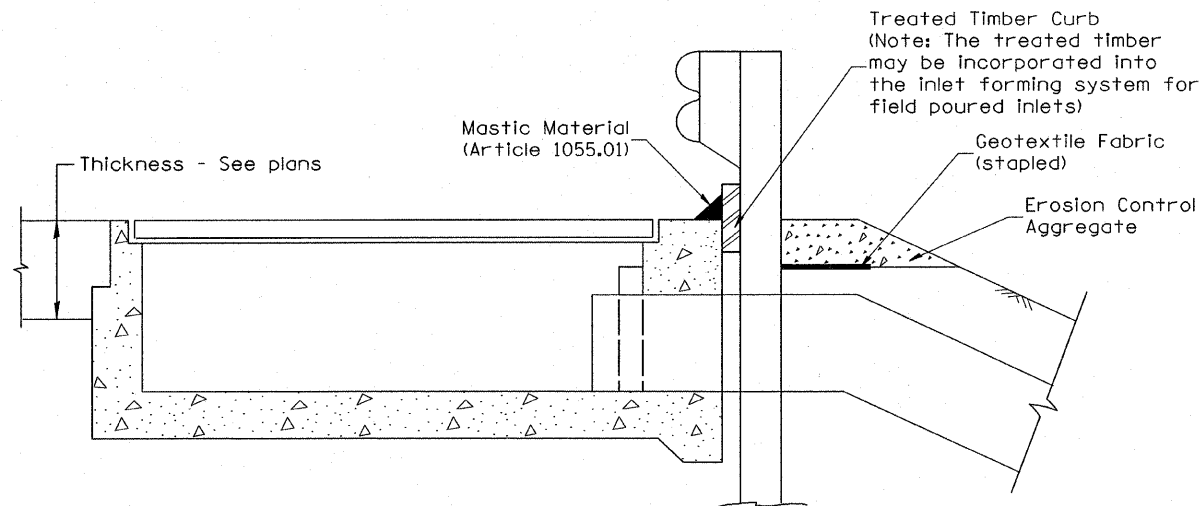
SPLICE LOCATED AT GUARDRAIL POST
1/2(M12) galvanized U-bolt with
nut & washer

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.

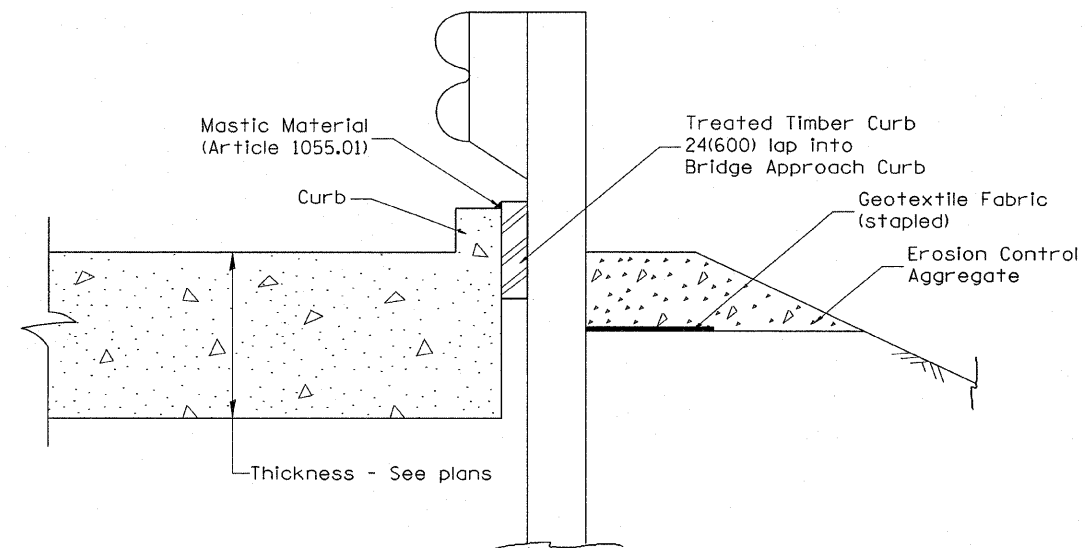
DETAIL A
(Typical Treated Timber Splices)



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)

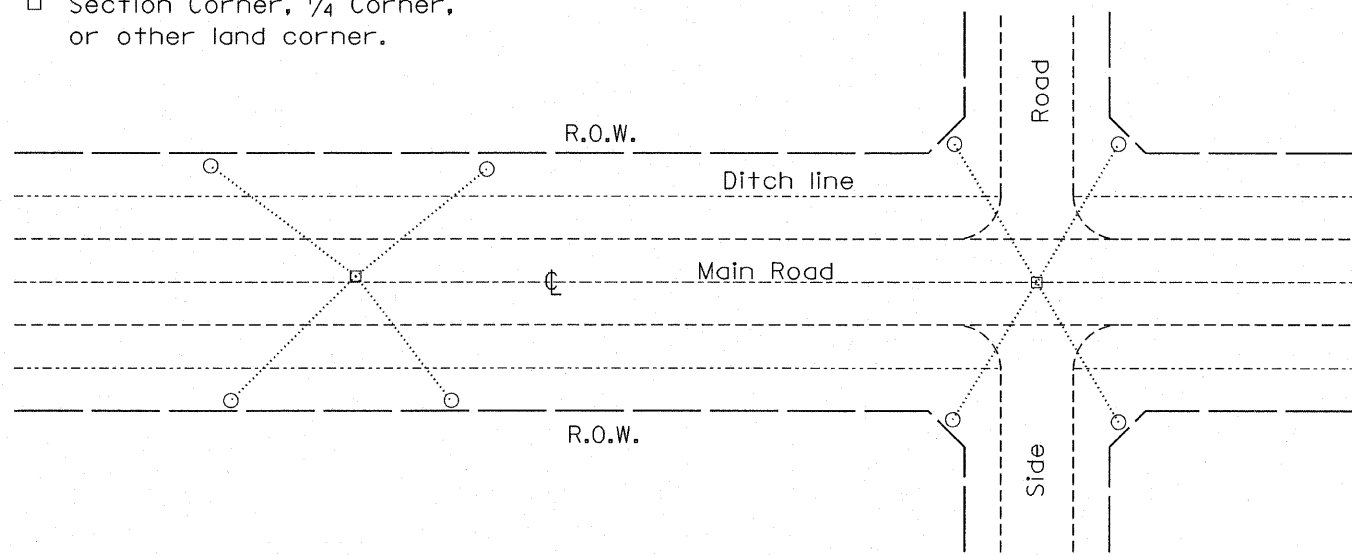
All dimensions are in inches (millimeters)
unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PERMANENT SURVEY TIES

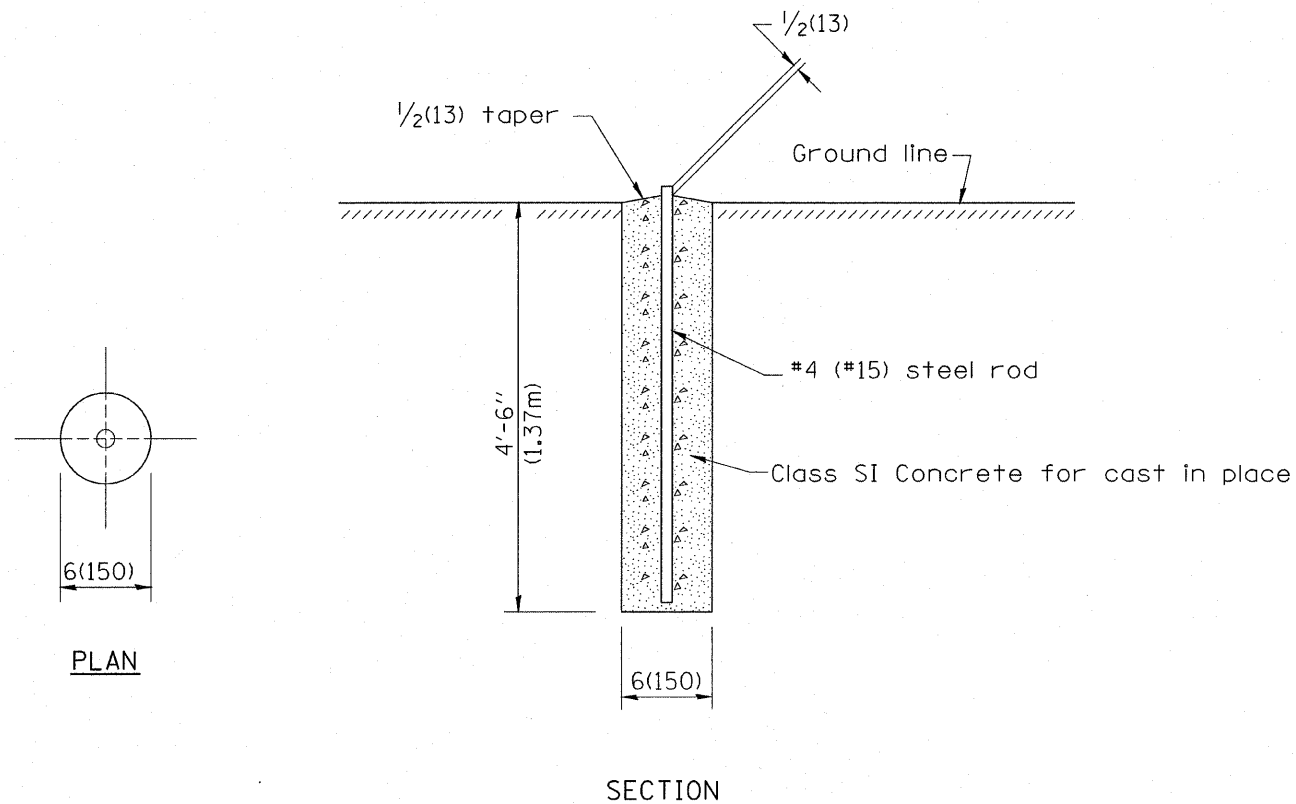
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



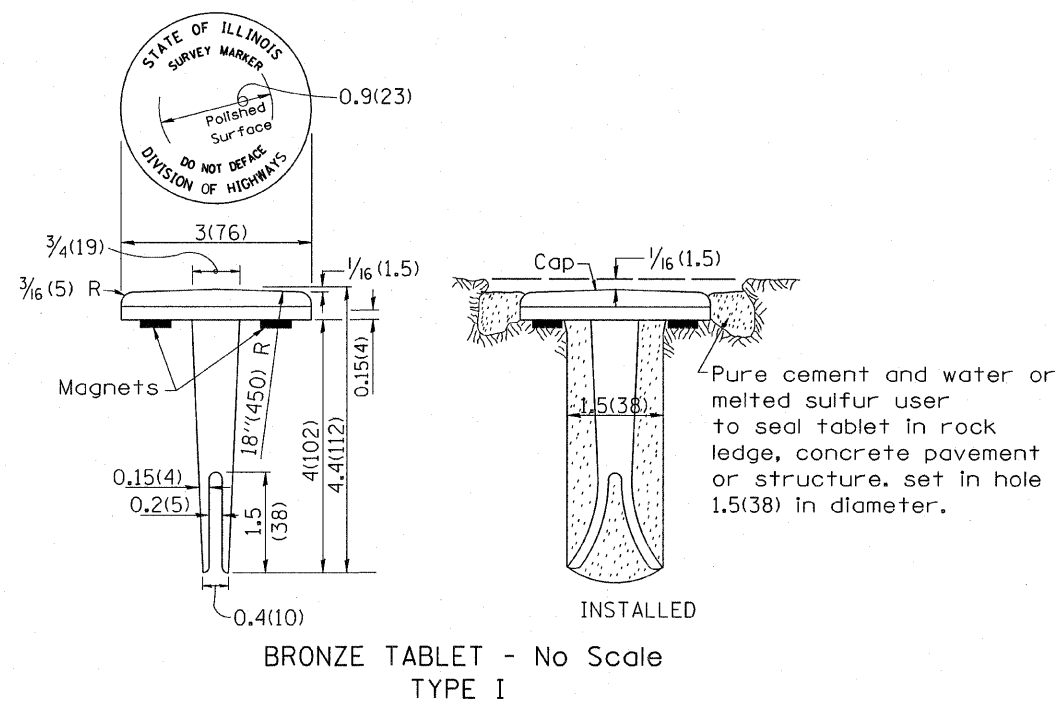
TYPICAL APPLICATION

GENERAL NOTES

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



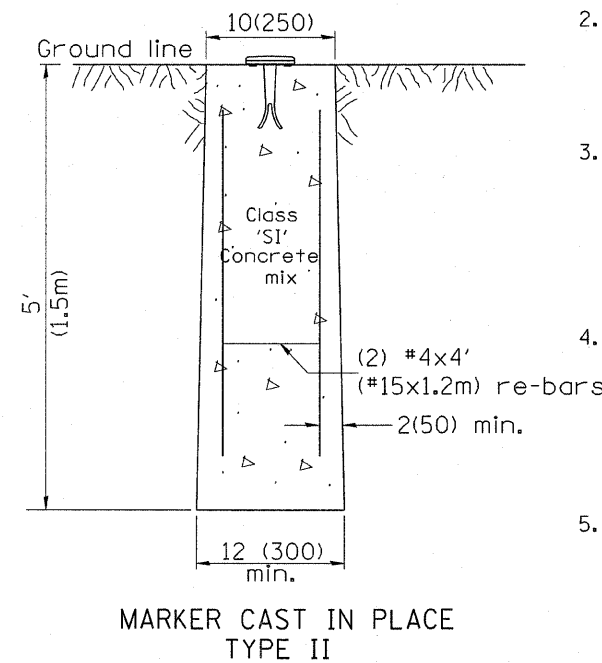
PERMANENT SURVEY MARKERS



BRONZE TABLET - No Scale TYPE I

GENERAL NOTES

- All type II markers shall be cast in place, and precast markers will not be allowed.
- 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.
- 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).
- 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.
- 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.

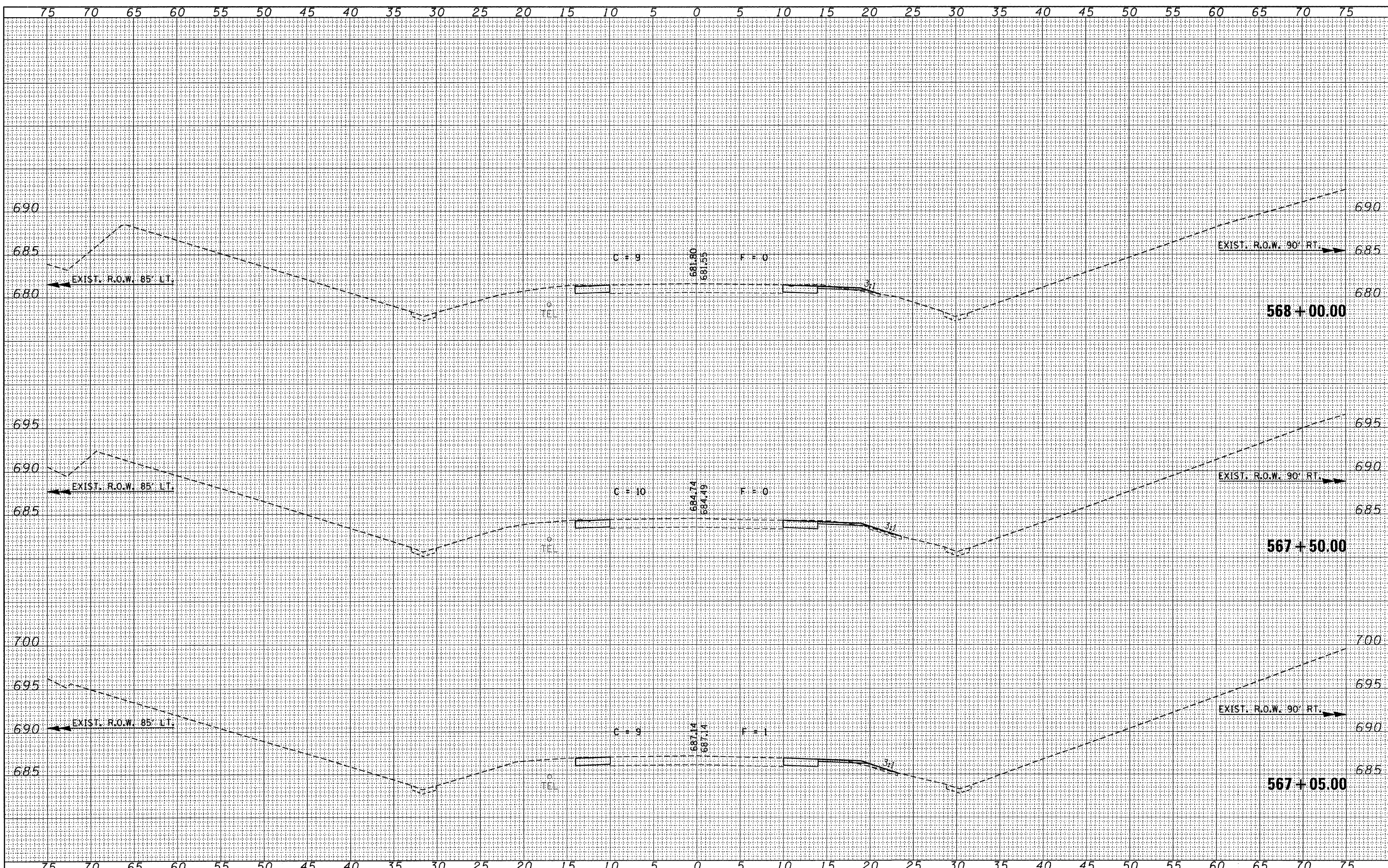
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I - TY.II	
CADD STD. NO. 667101-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01. NEW REVISION BOX	T.P.
7-7-98	ADD DESIGNER NOTE, REVISED TITLE BOX	J.A.
5-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

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

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 37203-shr-xxs_stage1.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

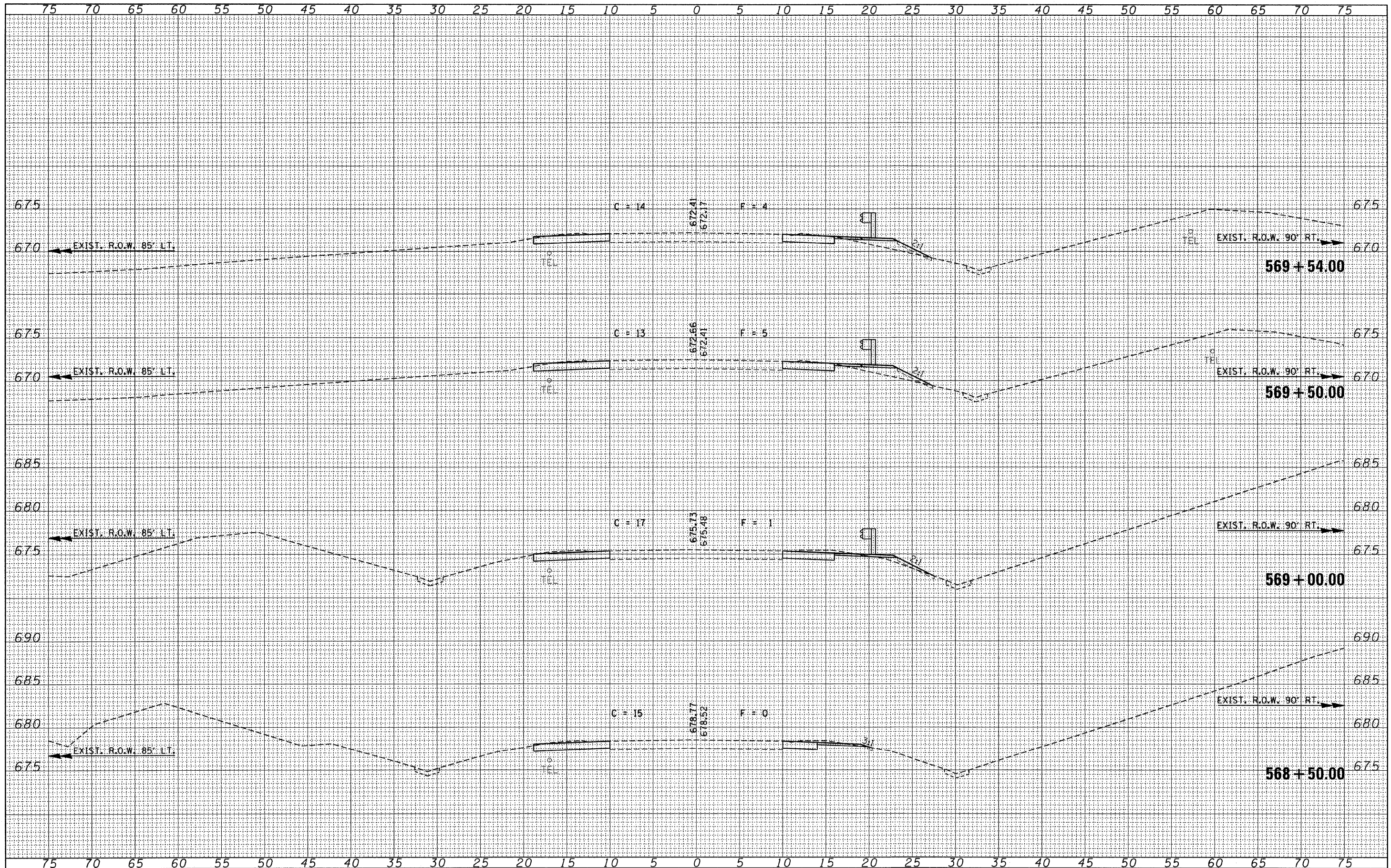
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE 1 CROSS SECTIONS (IL 116)
 SCALE: SHEET NO. OF SHEETS STA. 567+05.00 TO STA. 568+00.00

F.A.P. RTE. 665	SECTION (144-B)BR	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 49
CONTRACT NO. 68091			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 37003-sh1-exs_stage1.dgn

USER NAME =
DESIGNED - L.F.S.
DRAWN - TWK
CHECKED - J.W.F.
DATE - 08/13/08

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

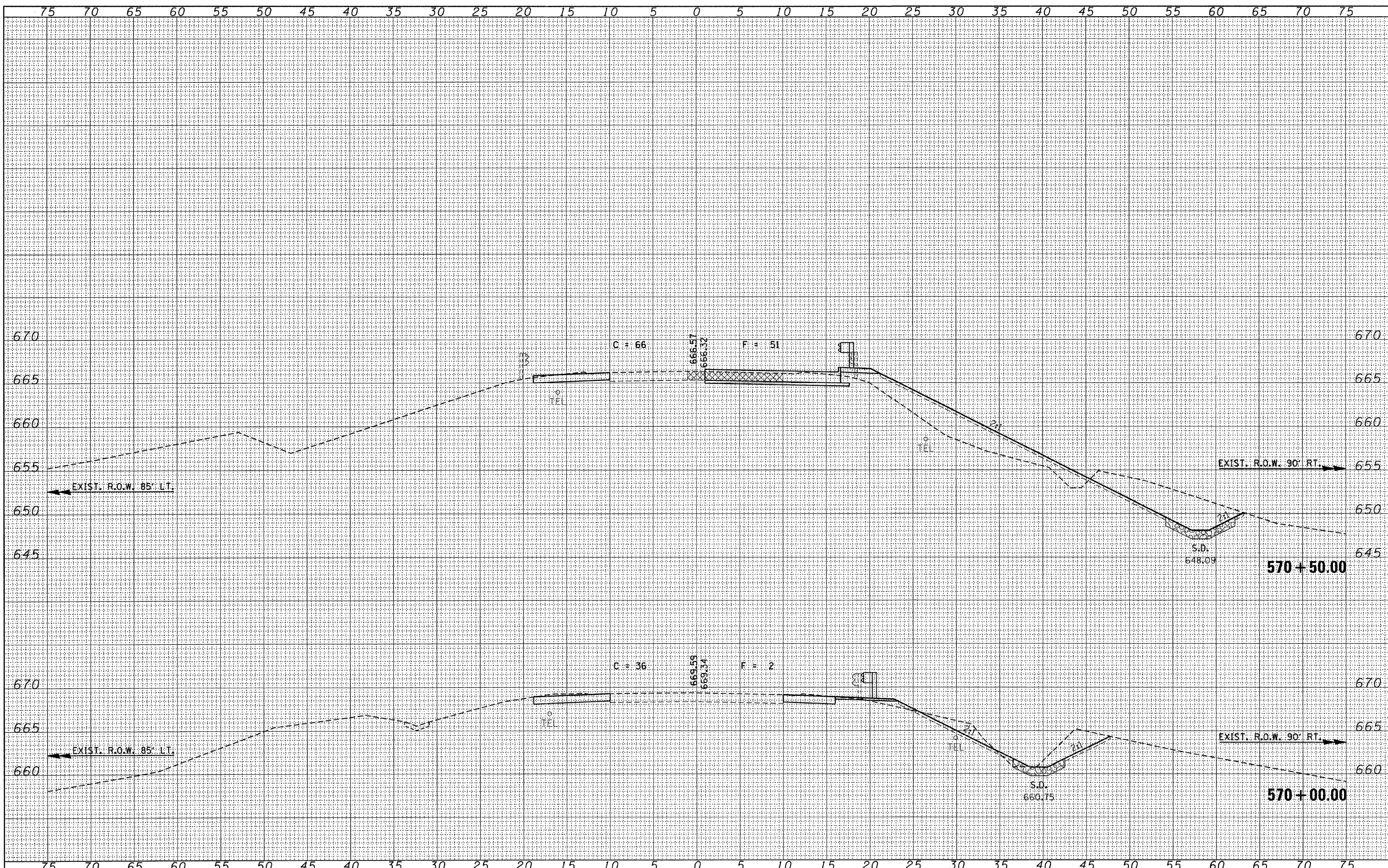
STAGE 1 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 568+50.00 TO STA. 569+54.00

F.A.P. RTE. 665	SECTION (144-BIBR)	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 50
CONTRACT NO. 68091			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 37203-shr-eks_stagel.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

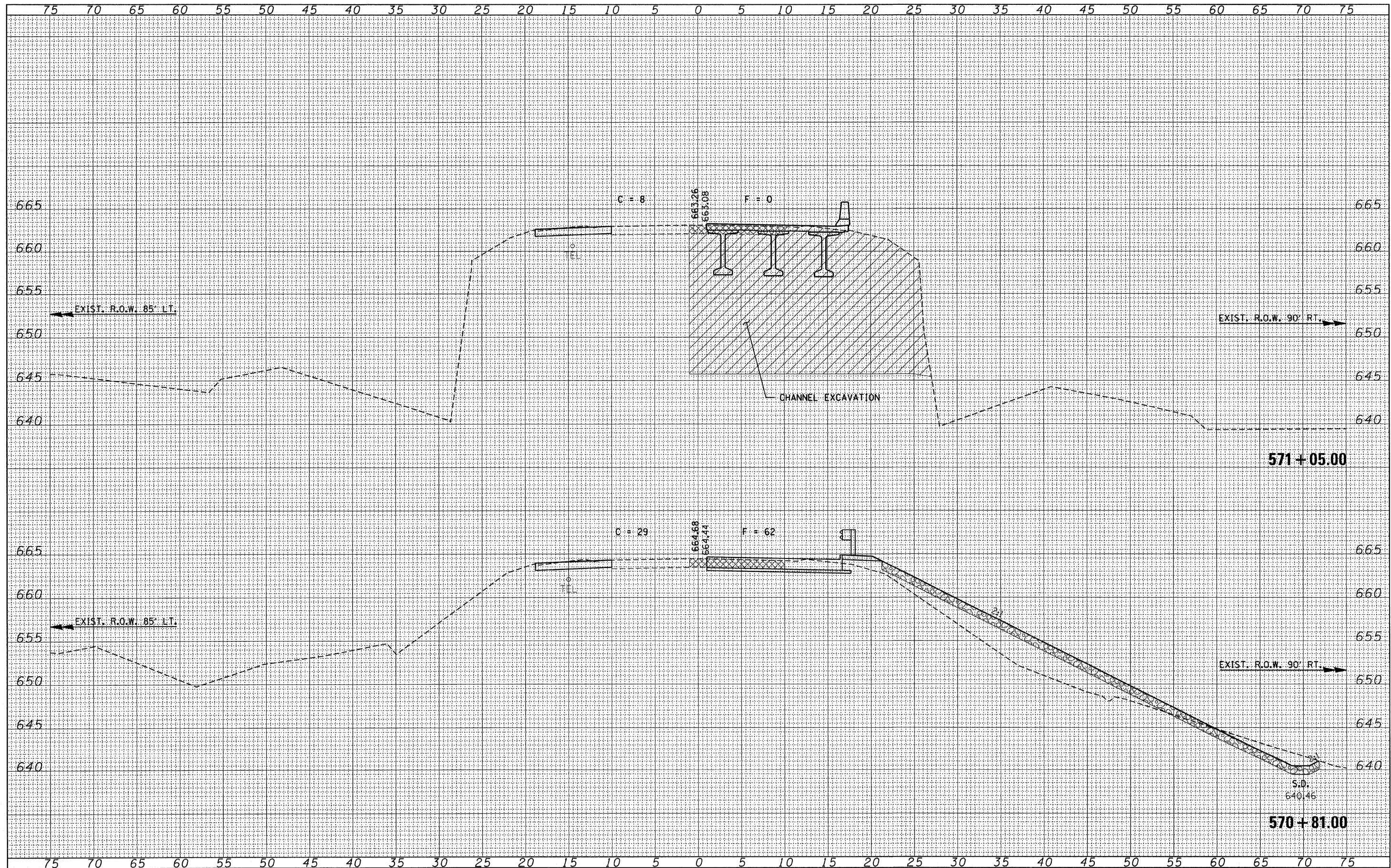
SCALE: SHEET NO. OF SHEETS STA. 570+00.00 TO STA. 570+50.00

STAGE 1 CROSS SECTIONS (IL 116)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	51
CONTRACT NO. 68091				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



FILE NAME = 37003-sh1-axs_stage1.dgn

USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.
 DRAWN - TWK
 CHECKED - J.W.F.
 DATE - 08/13/08

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

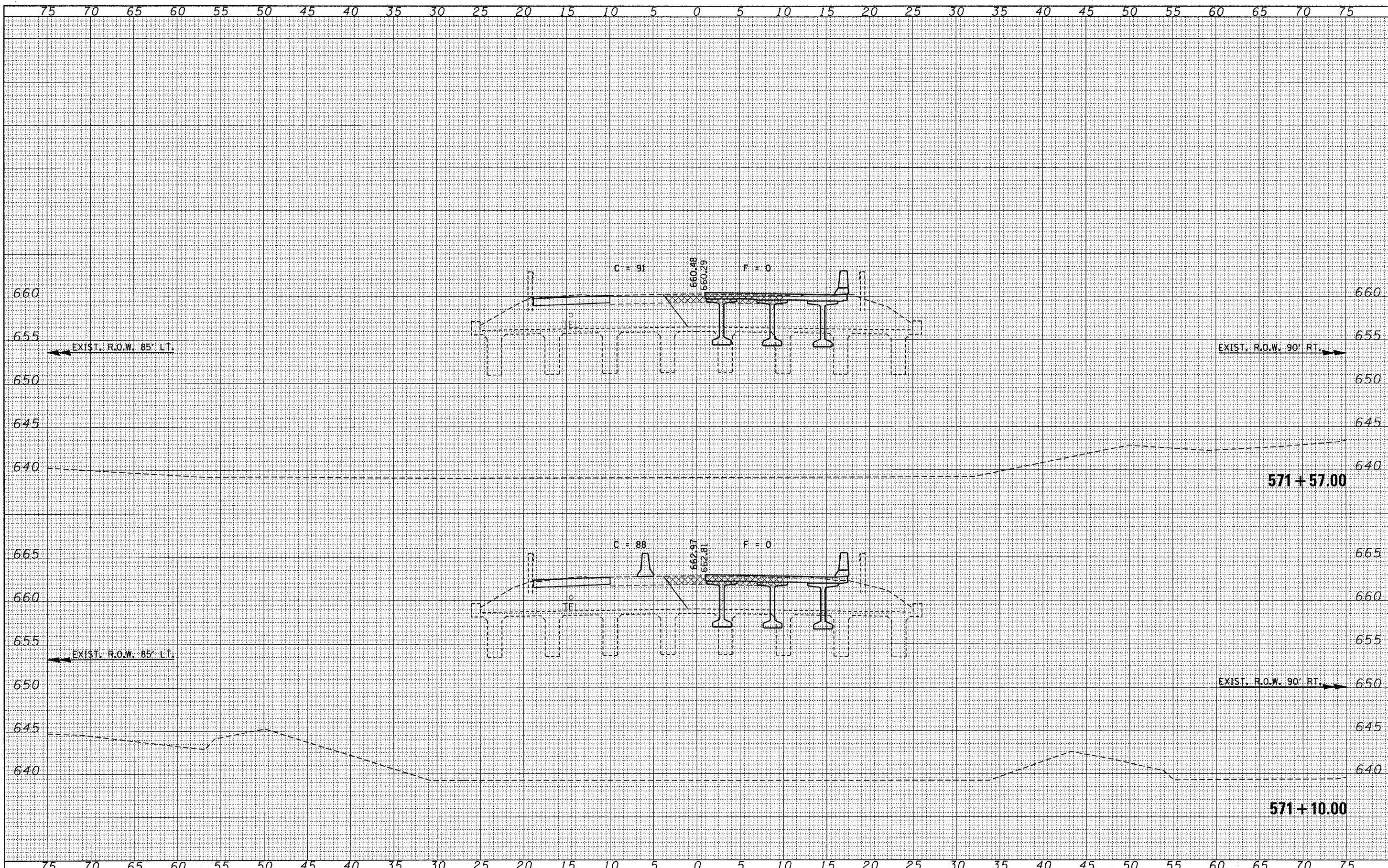
STAGE 1 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 570+81.00 TO STA. 571+05.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	52
CONTRACT NO. 68091			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
PLANNED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLANNED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 37003-sh1-eva_stage1.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

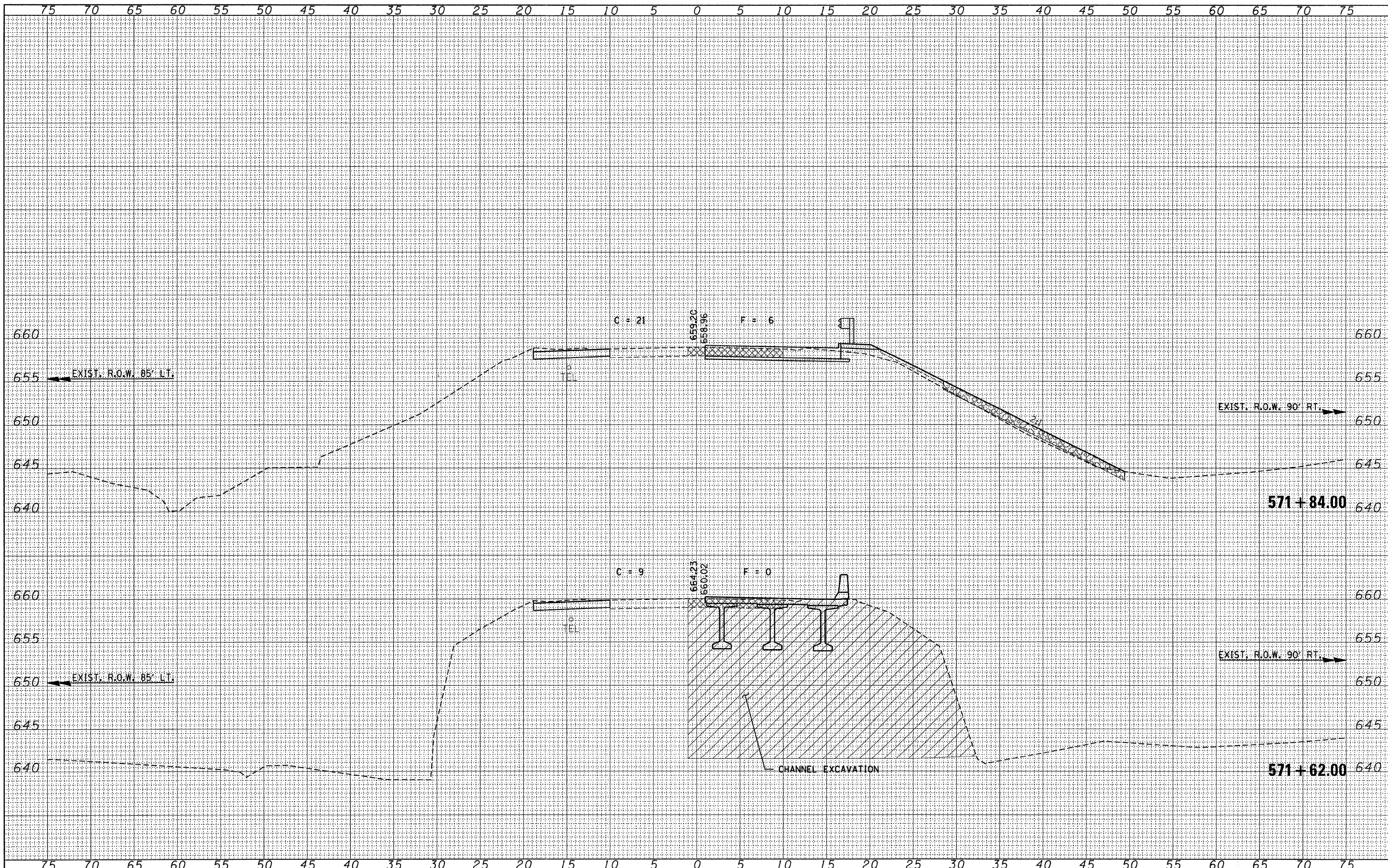
STAGE 1 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 571+10.00 TO STA. 571+57.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	53
CONTRACT NO. 68091				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLANNED	
NOTED	
REVISIONS	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLANNED	
NOTED	
REVISIONS	
NO.	



FILE NAME = 37003-sh1-exs_stagel.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

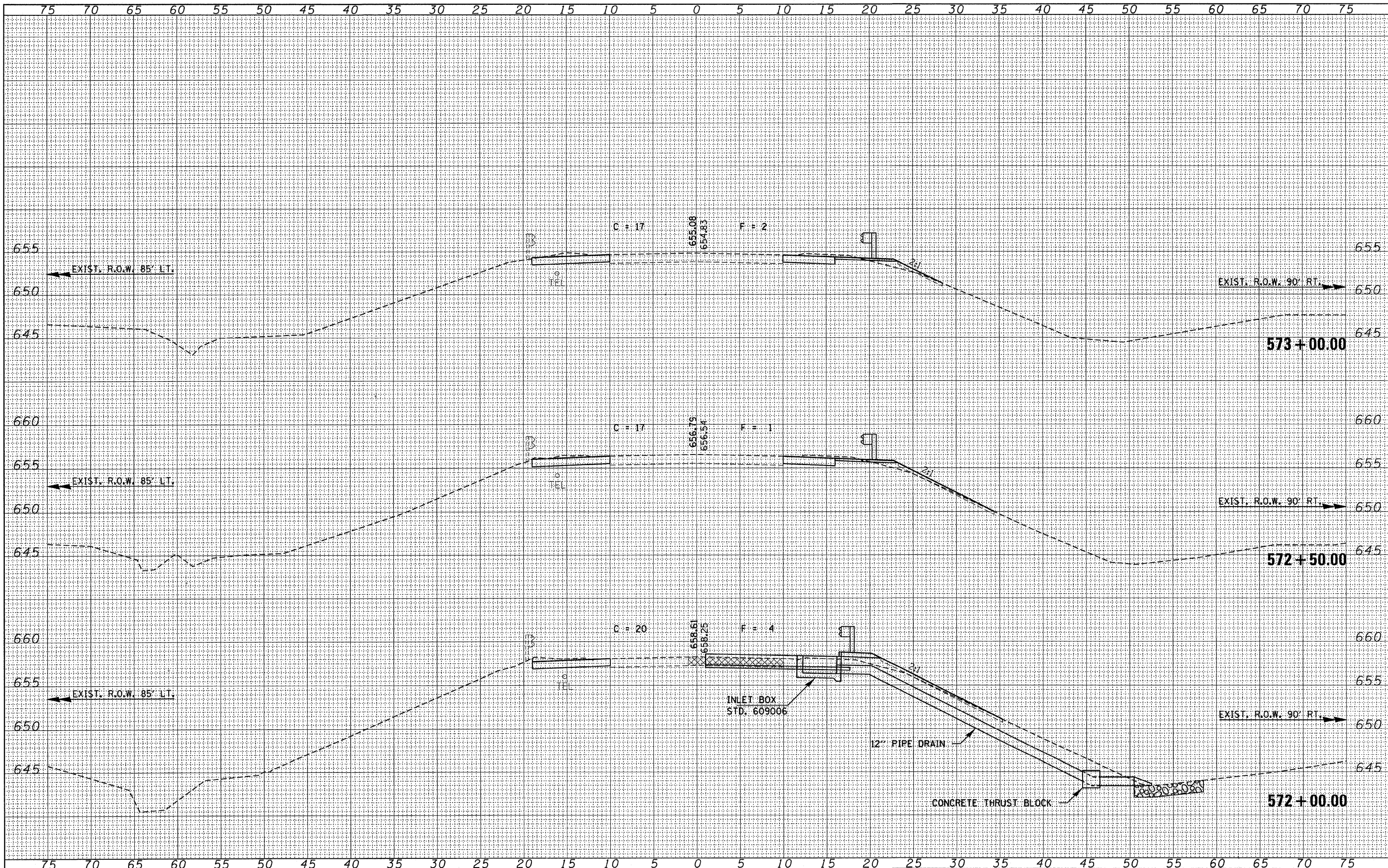
STAGE 1 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 571+62.00 TO STA. 571+84.00

F.A.P. RTE. 665	SECTION (144-B)BR	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 54
CONTRACT NO. 68091			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME = 37203-shr-axs_stage1.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

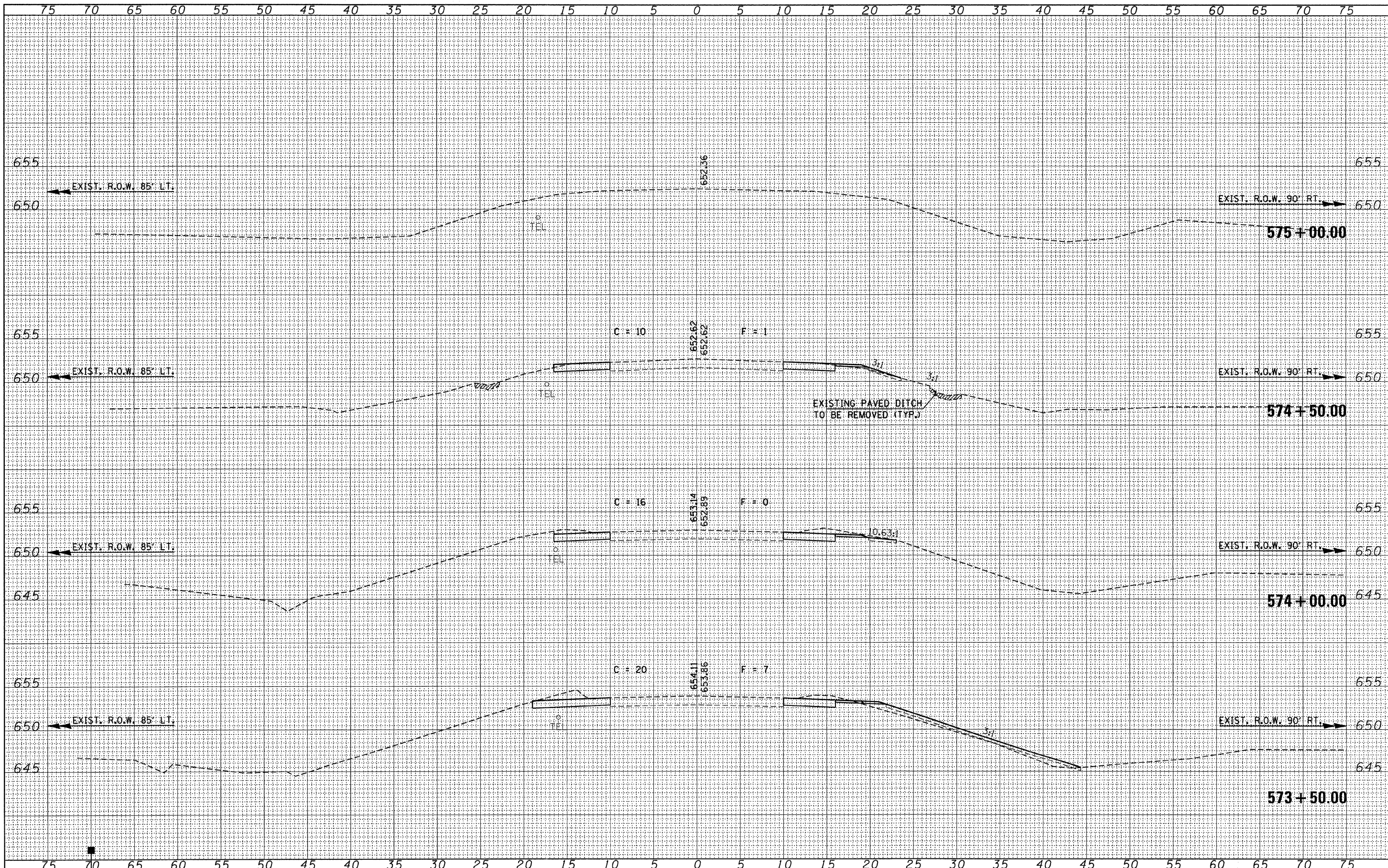
STAGE 1 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 572+00.00 TO STA. 573+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	55
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68091	

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

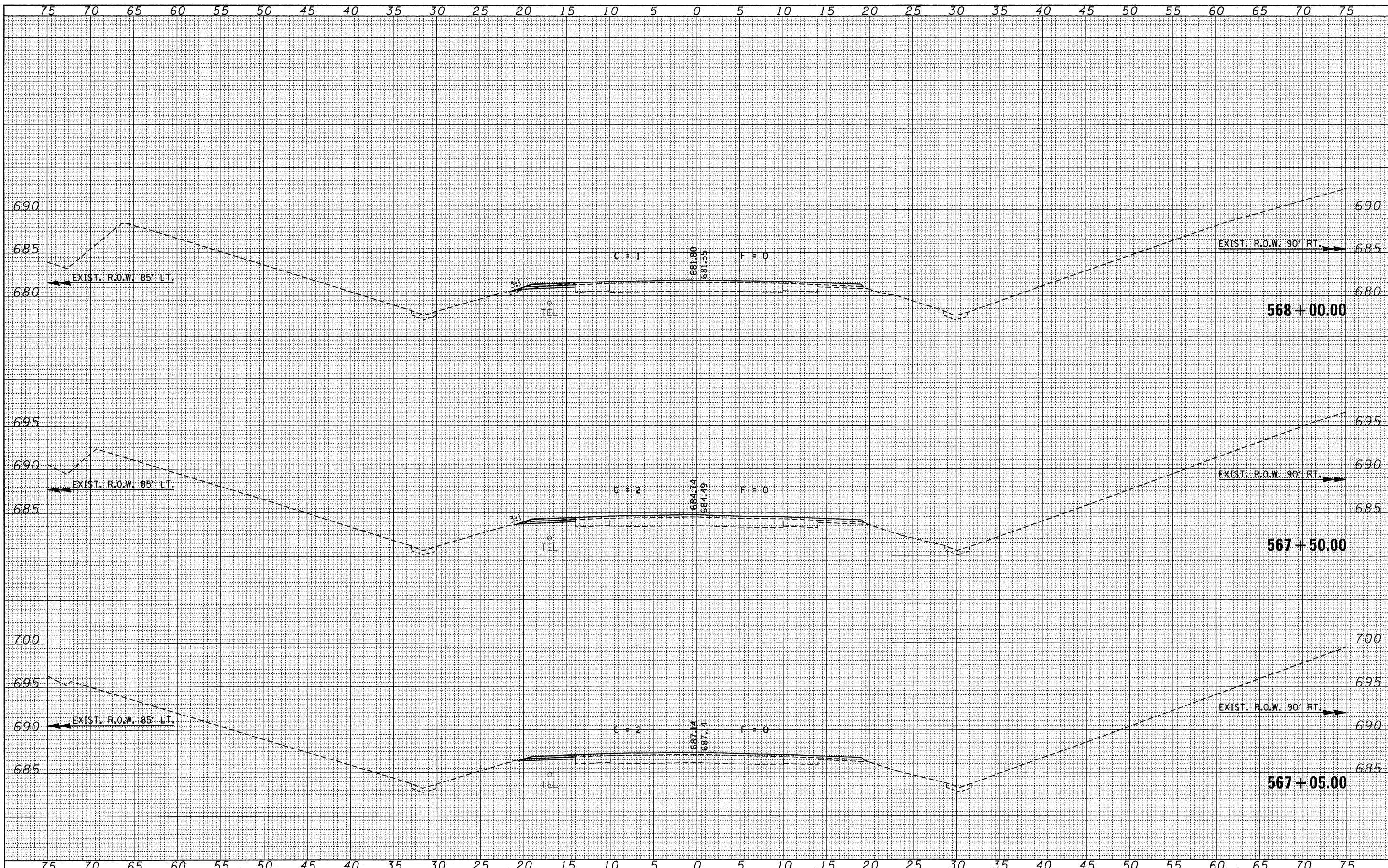
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 37003-sh1-axs_stage1.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 CROSS SECTIONS (IL 116)			F.A.P. RTE. 665	SECTION (144-B)BR	COUNTY FULTON	TOTAL SHEETS 67	SHEET NO. 56
	PLOT SCALE =	DRAWN - TWK	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 573+50.00	TO STA. 575+00.00	CONTRACT NO. 68091	
	PLOT DATE = 8/13/2008	CHECKED - J.W.F.	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE - 08/13/08	REVISED -									

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =	37003-sh1-sxs_stage2.dgn
USER NAME =	
DESIGNED - L.F.S.	
DRAWN - TWK	
CHECKED - J.W.F.	
DATE - 08/13/08	
PLOT SCALE =	
PLOT DATE = 8/13/2008	

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

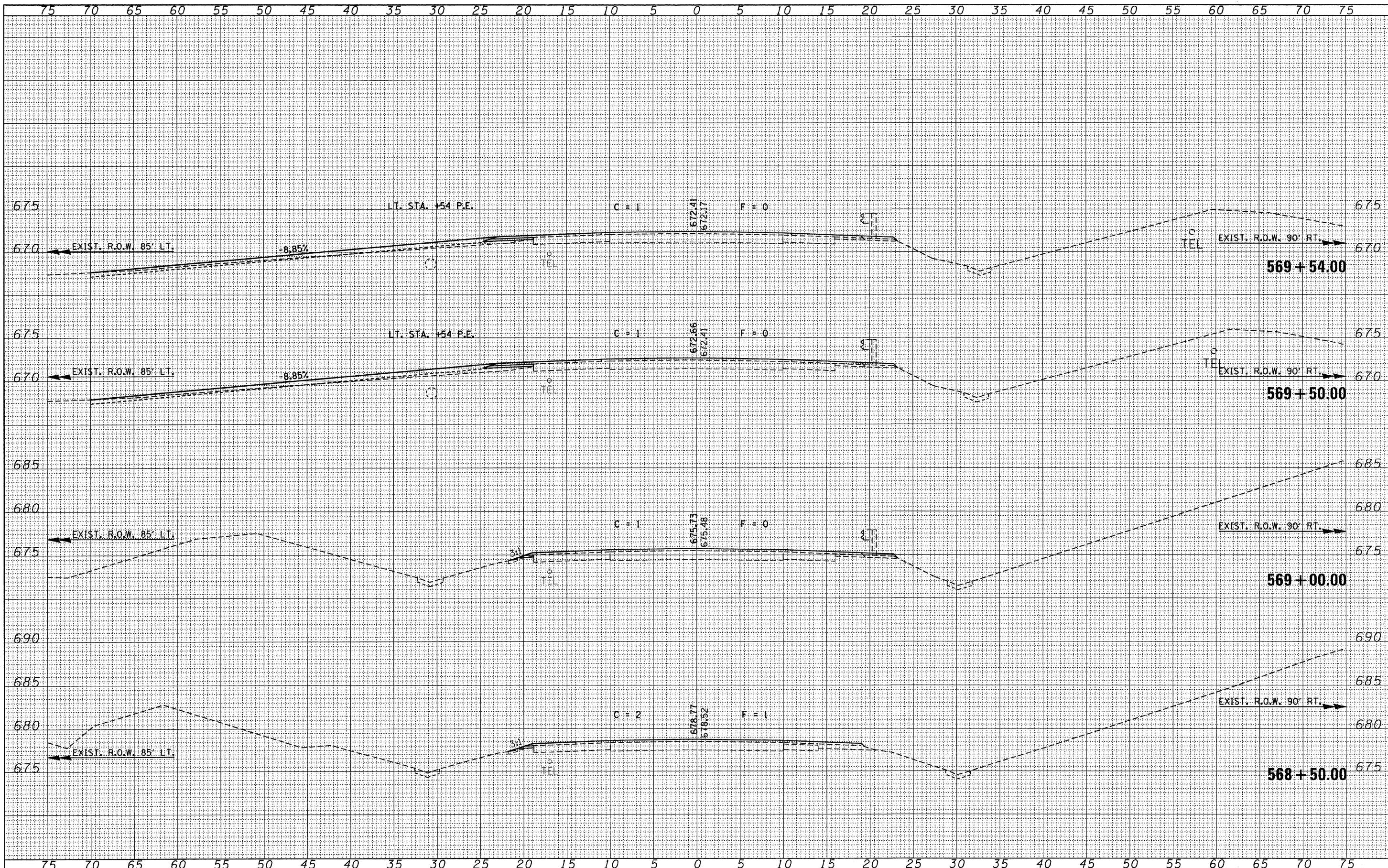
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 567+05.00 TO STA. 568+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	57
CONTRACT NO. 68091				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 37003-shr-axs_stage2.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

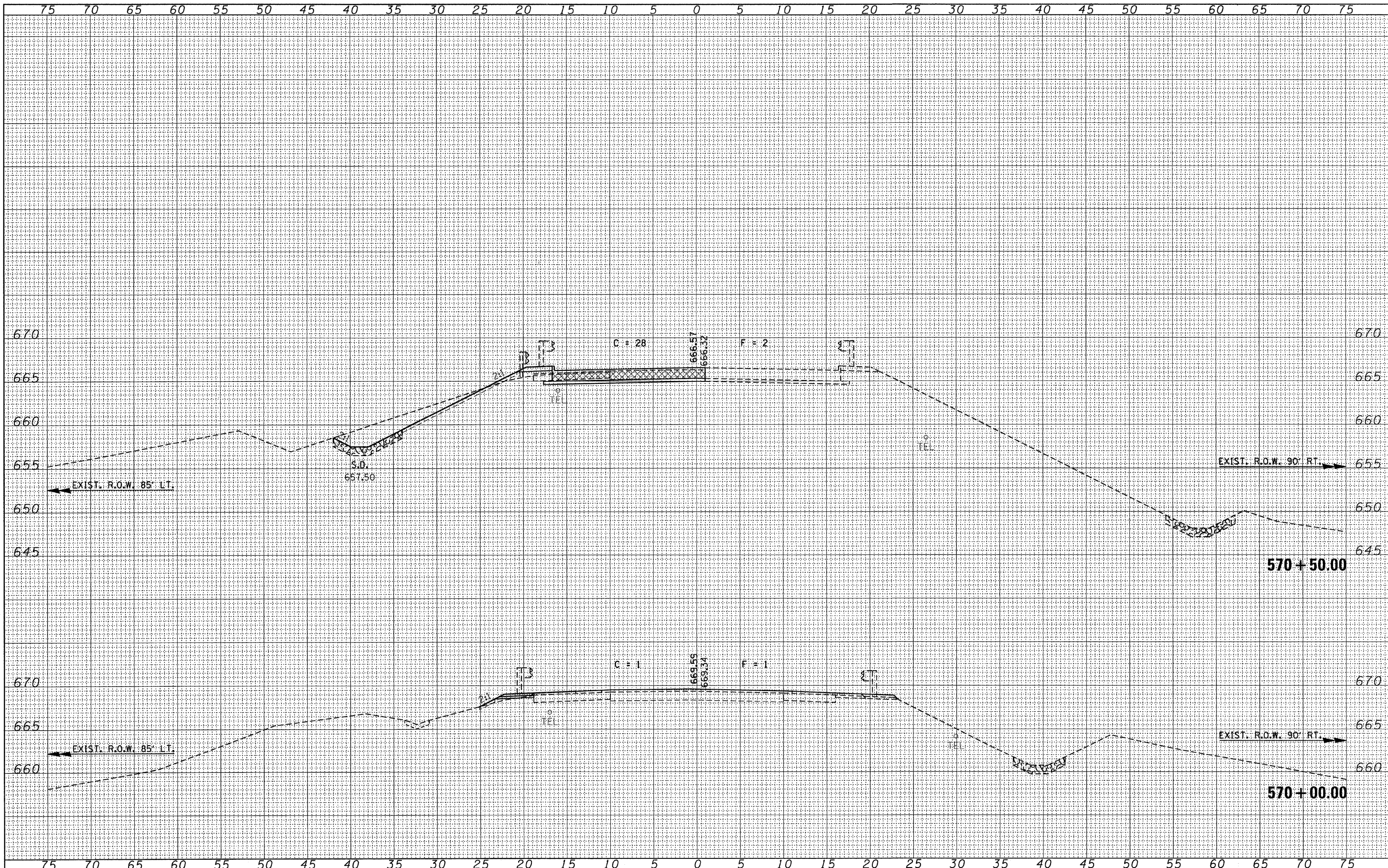
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 568+50.00 TO STA. 569+54.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	58
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68091	

FINAL SURVEY	BY	DATE
SURVEYED		
PLANNED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLANNED		
NOTE BOOK		
AREAS CHECKED		
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FILE NAME = 37003-shit-axs_stage2.dgn

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PLOT SCALE =	DRAWN - TWK	REVISED -
PLOT DATE = 8/13/2008	CHECKED - J.W.F.	REVISED -
	DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

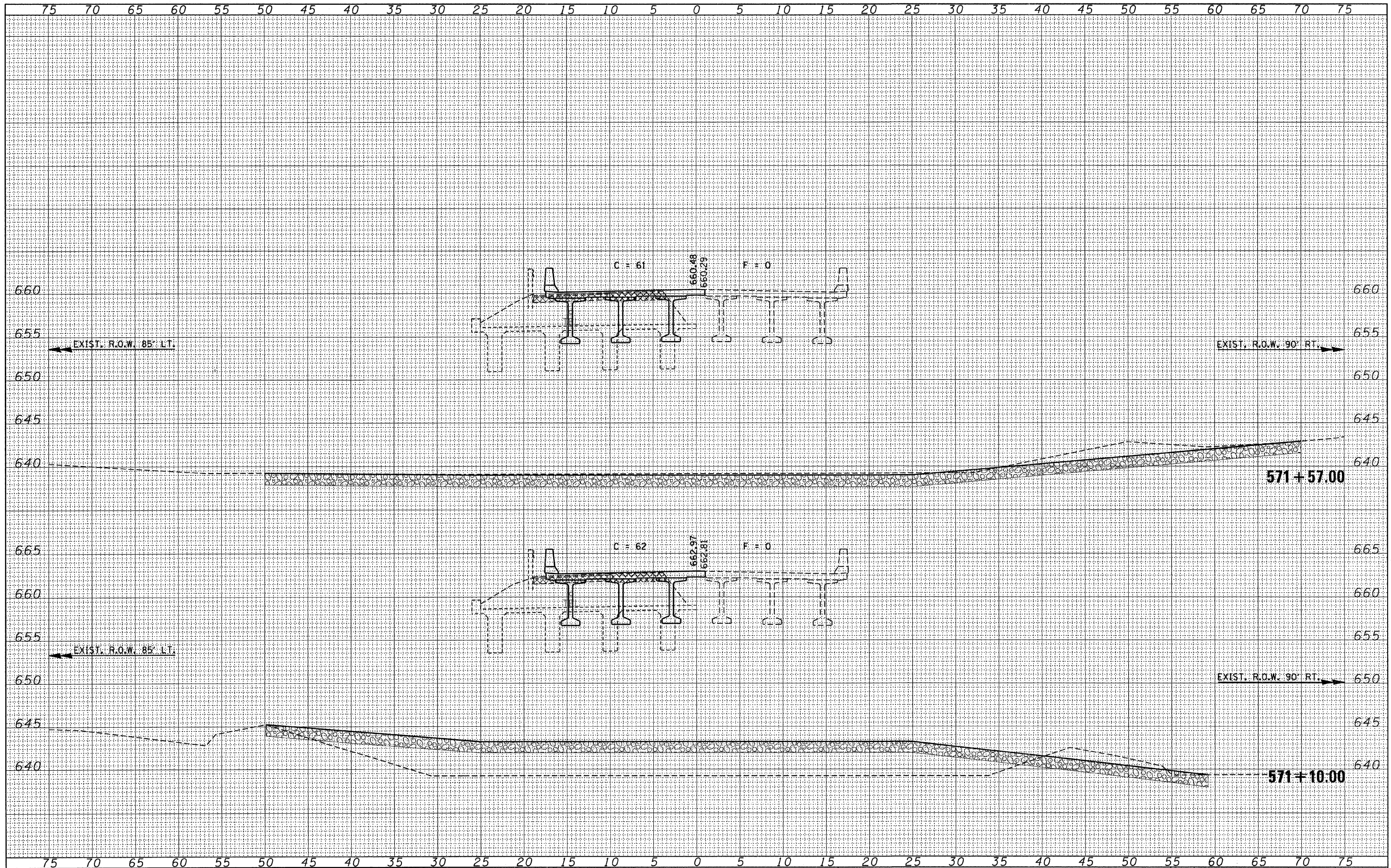
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 570+00.00 TO STA. 570+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-BIBR)	FULTON	67	59
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68091	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 37003-shl-sss_stage2.dgn

USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.
 DRAWN - TWK
 CHECKED - J.W.F.
 DATE - 08/13/08

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

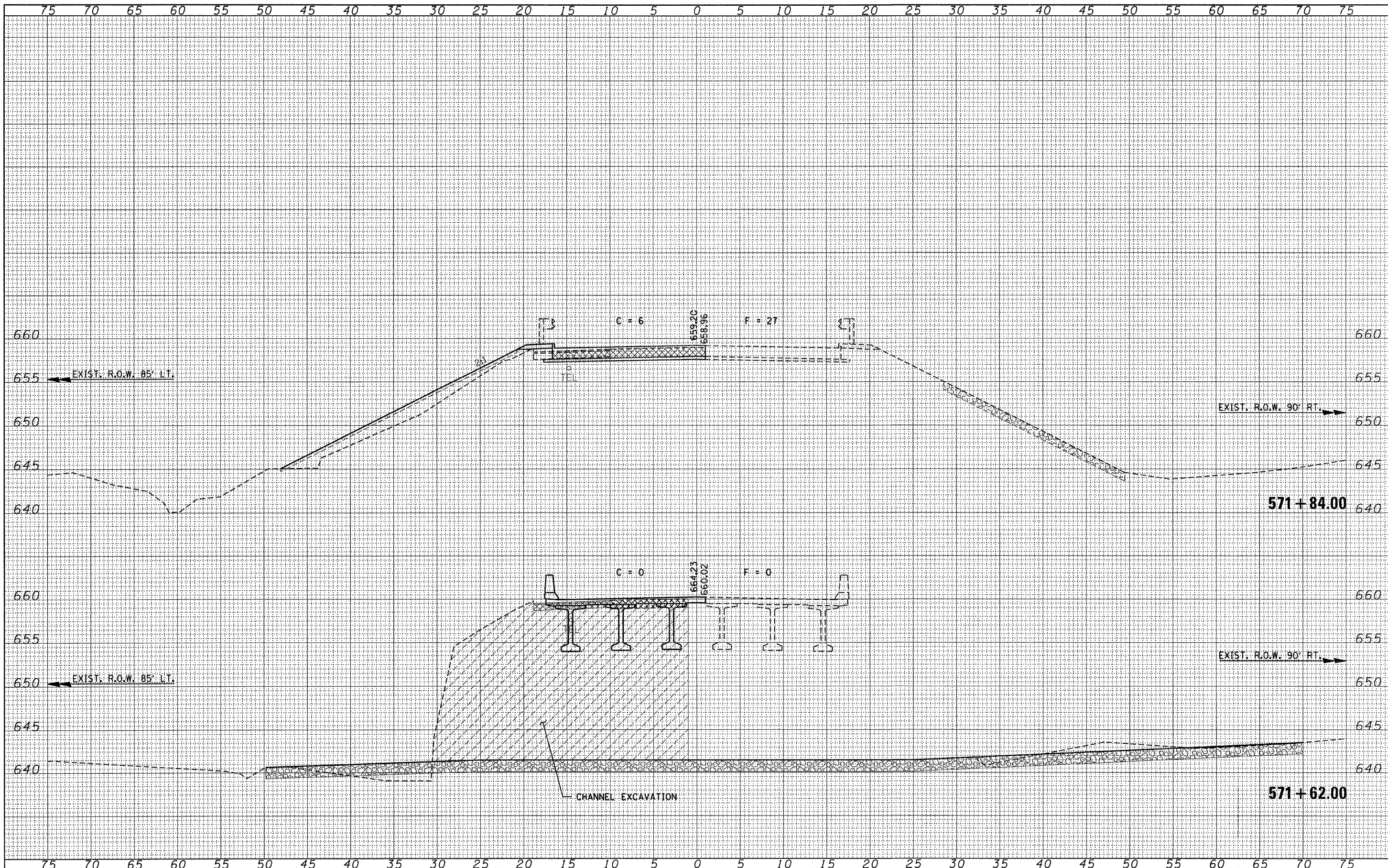
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 571+10.00 TO STA. 571+57.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	61
CONTRACT NO. 68091			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

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



FILE NAME = 37003-shr-axe_stage2.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

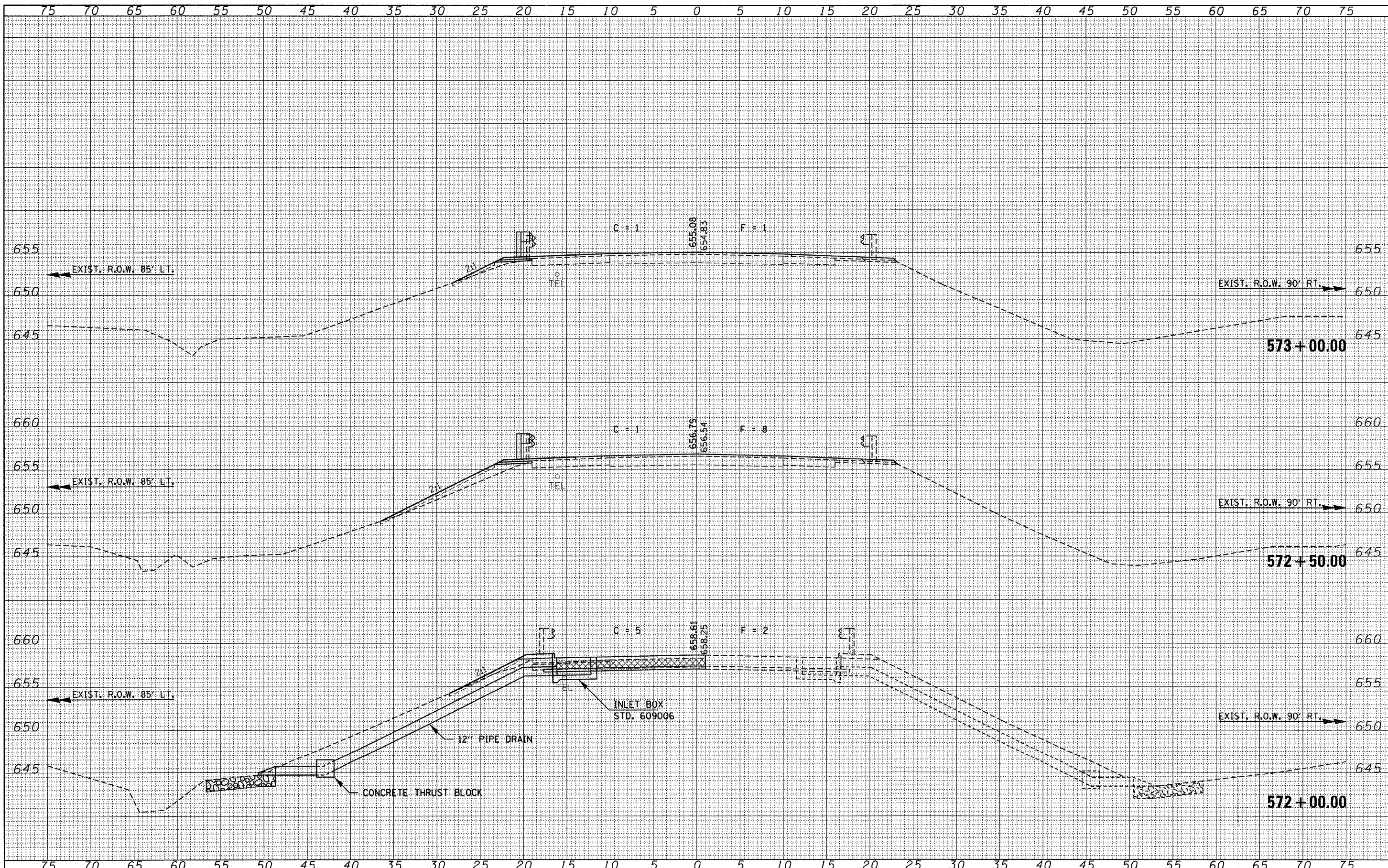
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 571+62.00 TO STA. 571+84.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	62
CONTRACT NO. 68091				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 37003-shl-axs_stage2.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/13/2008

DESIGNED - L.F.S.	REVISED -
DRAWN - TWK	REVISED -
CHECKED - J.W.F.	REVISED -
DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

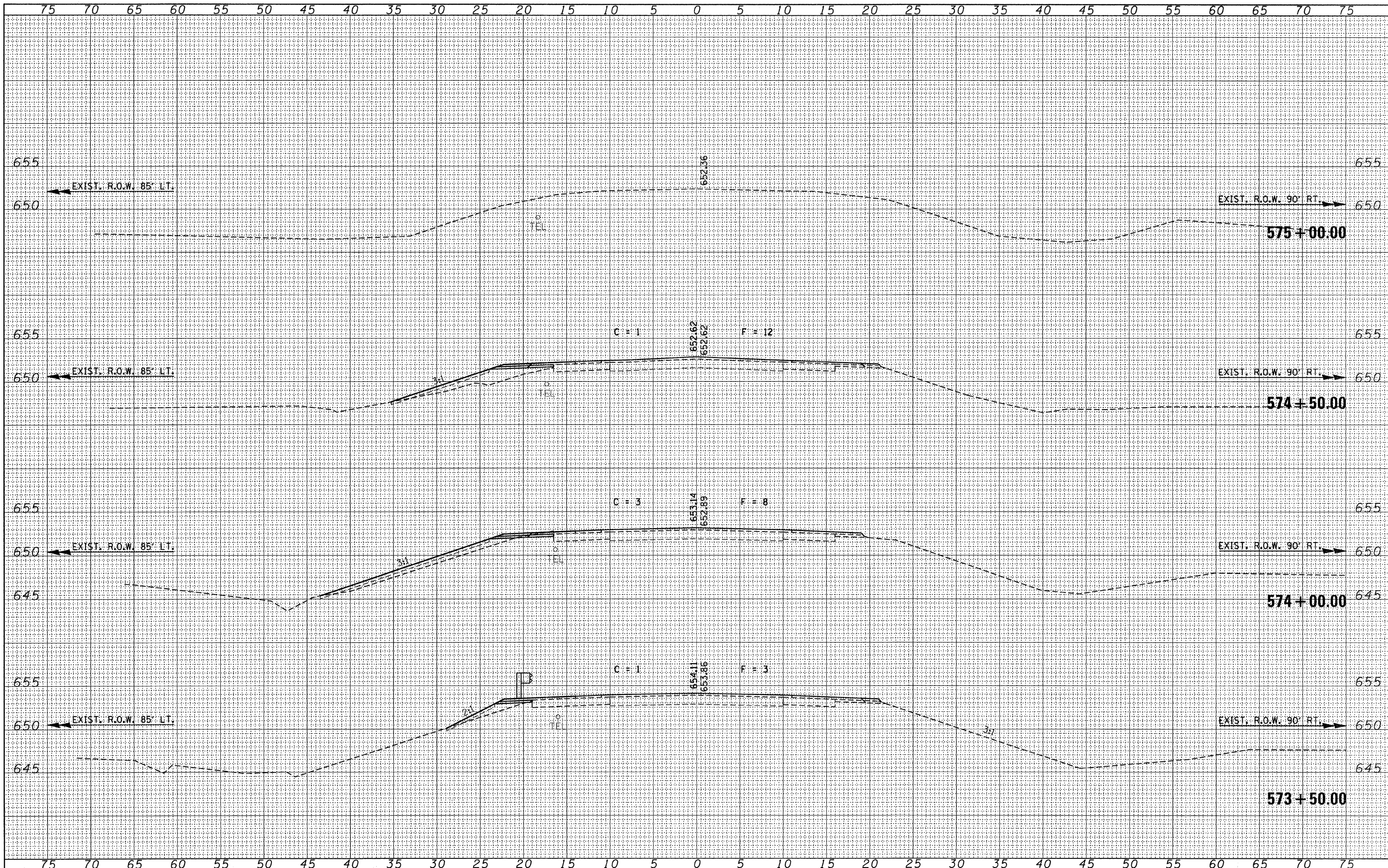
STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 572+00.00 TO STA. 573+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-BIBR)	FULTON	67	63
CONTRACT NO. 68091				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLANNED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLANNED	
NOTE BOOK	
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AREAS CHECKED	



FILE NAME = 37003-shr-axe_stage2.dgn

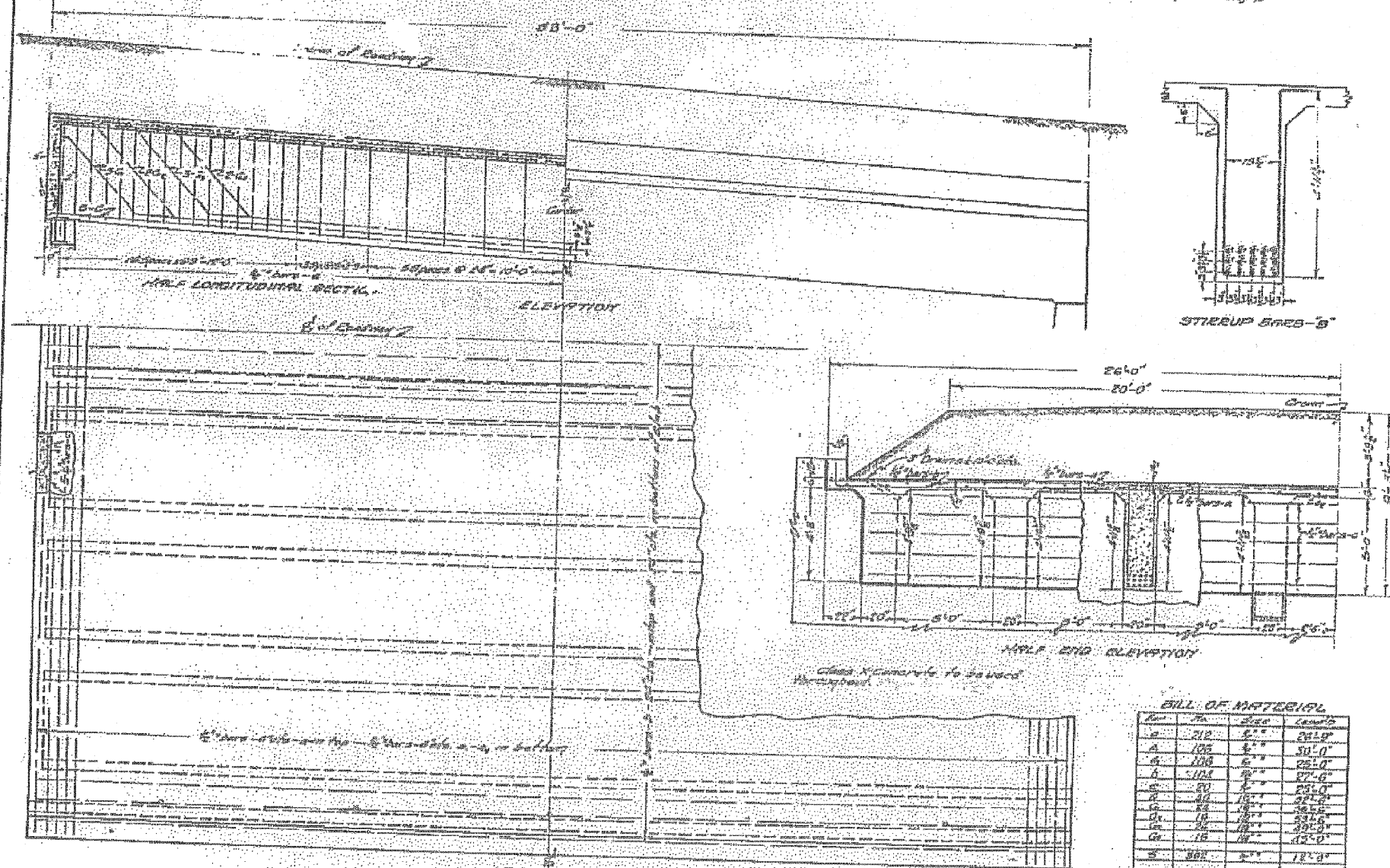
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	DRAWN - TWK	REVISED -
PLOT SCALE =	CHECKED - J.W.F.	REVISED -
PLOT DATE = 8/13/2008	DATE - 08/13/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 CROSS SECTIONS (IL 116)

SCALE: SHEET NO. OF SHEETS STA. 573+50.00 TO STA. 575+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	64
CONTRACT NO. 68091				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Qty	Size	Length	Remarks
212	2"	24'-0"	
100	2"	30'-0"	
100	2"	25'-0"	
512	2"	27'-0"	
80	2"	25'-0"	
80	2"	25'-0"	
16	2"	25'-0"	
16	2"	25'-0"	
16	2"	25'-0"	
5	2"	12'-0"	

DESIGNED	P.S.L.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	M.D.C.

APPROVED: *[Signature]*
DATE: 07/31/08



DETAIL OF BEAM G-4, G-6, G-8



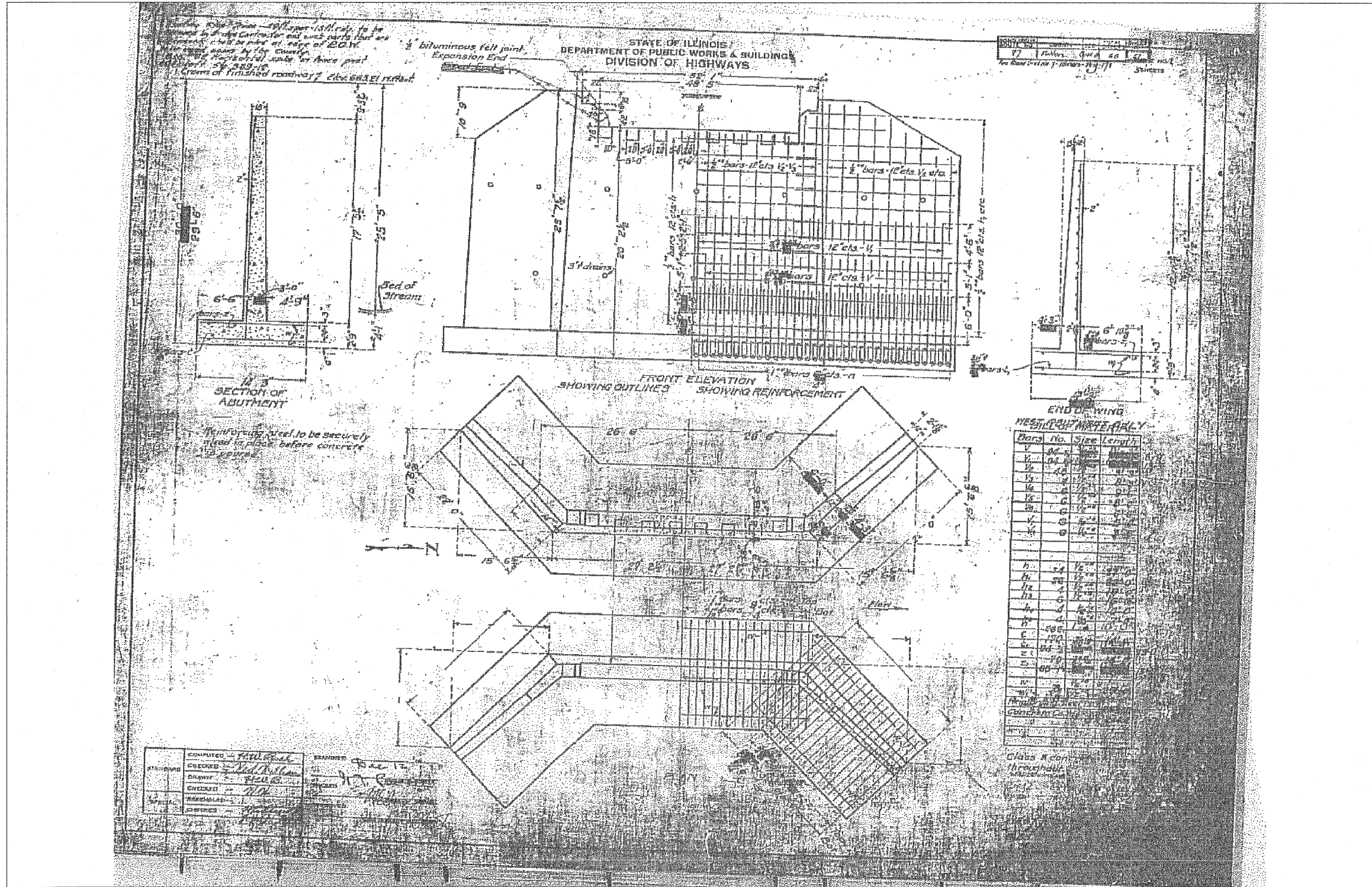
DETAIL OF BEAM G-4, G-6, G-8

LITTLE'S CREEK
SECTION 144-B
STATION 57+50

DESIGNED	P.S.L.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	M.D.C.

EXISTING STRUCTURE PLANS
STRUCTURE NO. 029-0016

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08	SHEET NO. 1	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3 SHEETS	665	(144-B)BR	FULTON	67	65
IL 116 OVER LITTLE'S CREEK			CONTRACT NO. 68091			
FED. ROAD DIST. NO. 4			ILLINOIS FED. AID PROJECT			



DESIGNED - P.S.L.
 CHECKED - M.D.C.
 DRAWN - D.A.B.
 CHECKED - M.D.C.

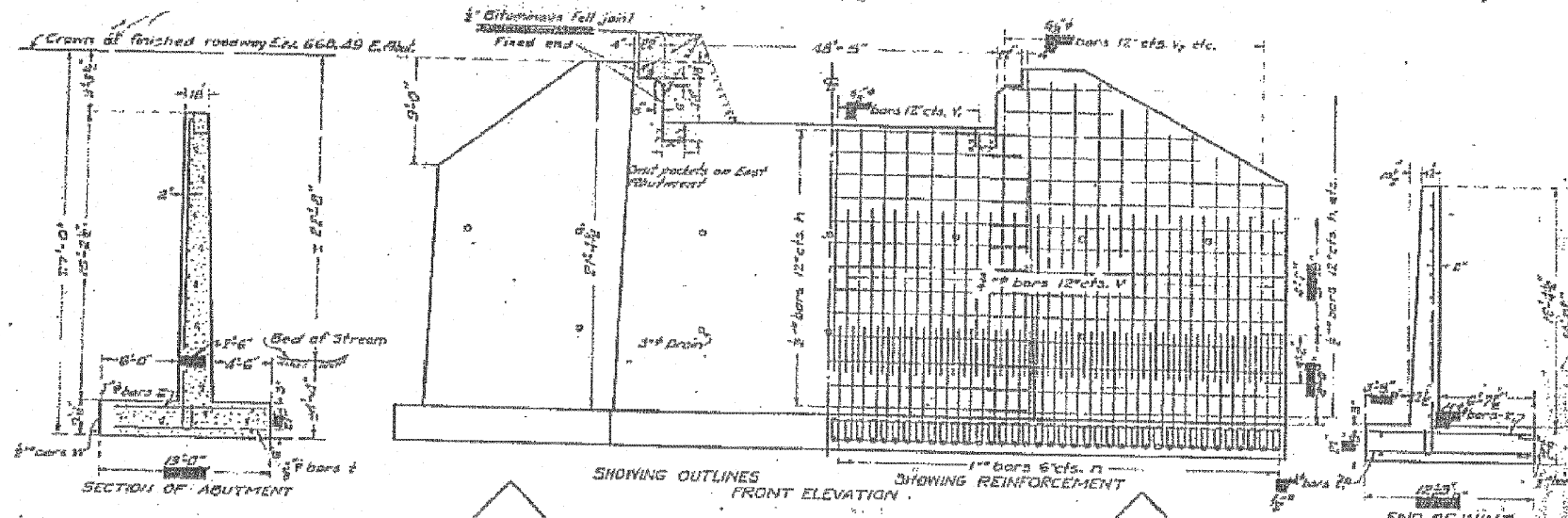
EXISTING STRUCTURE PLANS
 STRUCTURE NO. 029-0016

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 13-37-0003-1 DATE: 07/31/08	SHEET NO. 2 3 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		665	(144-B)BR	FULTON	67	66
			IL 116 OVER LITTLERS CREEK	CONTRACT NO. 68091		
			FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	

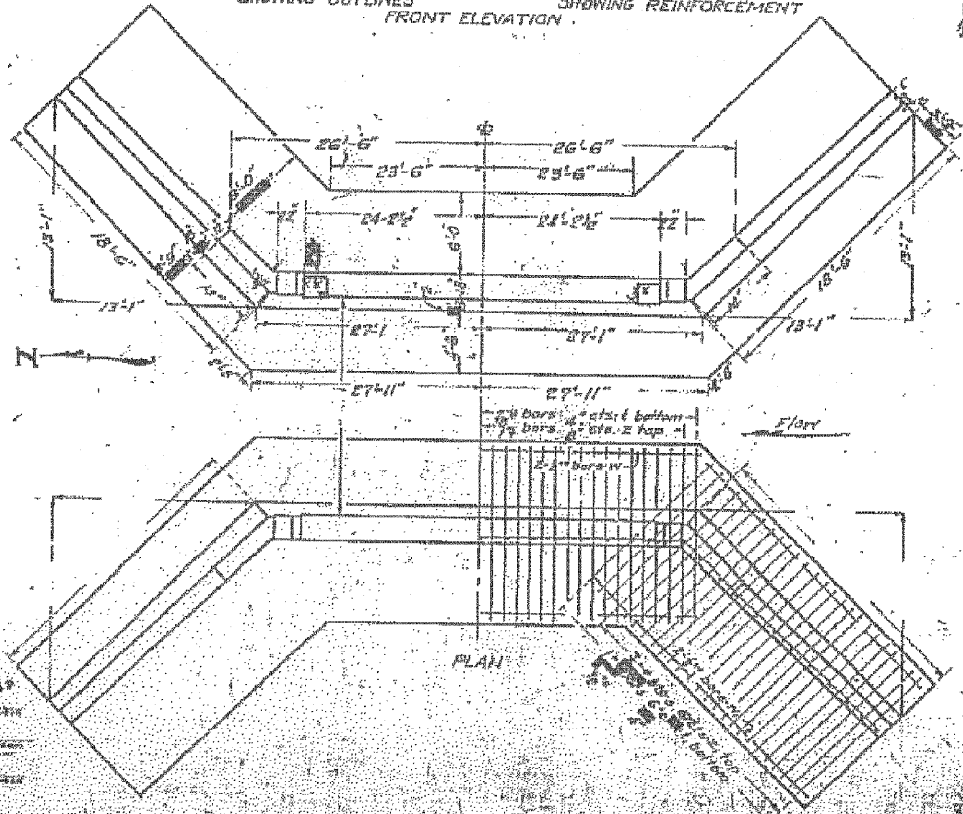
Reinforcing steel, 70,000-psi yield strength, shall be used in the reinforcement of concrete. Contractor shall verify that all reinforcing steel is of the type and grade specified. A.D. 1968, Standard Specifications for Road and Bridge Construction, Section 506.00-12.

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

PROJECT NO.	COUNTY	SHEET NO.	TOTAL SHEETS
17	Fulton	67	67



Class A concrete shall be used throughout.
All reinforcing steel shall be accurately wired in place before concrete is poured.



BILL OF MATERIAL

ITEM	QTY	UNIT	DESCRIPTION
1	1	cu yd	CONCRETE
2	1	sq ft	FORMWORK
3	1	lb	REINFORCING STEEL
4	1	sq ft	FORMWORK
5	1	lb	REINFORCING STEEL
6	1	sq ft	FORMWORK
7	1	lb	REINFORCING STEEL
8	1	sq ft	FORMWORK
9	1	lb	REINFORCING STEEL
10	1	sq ft	FORMWORK
11	1	lb	REINFORCING STEEL
12	1	sq ft	FORMWORK
13	1	lb	REINFORCING STEEL
14	1	sq ft	FORMWORK
15	1	lb	REINFORCING STEEL
16	1	sq ft	FORMWORK
17	1	lb	REINFORCING STEEL
18	1	sq ft	FORMWORK
19	1	lb	REINFORCING STEEL
20	1	sq ft	FORMWORK
21	1	lb	REINFORCING STEEL
22	1	sq ft	FORMWORK
23	1	lb	REINFORCING STEEL
24	1	sq ft	FORMWORK
25	1	lb	REINFORCING STEEL
26	1	sq ft	FORMWORK
27	1	lb	REINFORCING STEEL
28	1	sq ft	FORMWORK
29	1	lb	REINFORCING STEEL
30	1	sq ft	FORMWORK

DESIGNED: P.S.L.
CHECKED: M.D.C.
DRAWN: D.A.B.
CHECKED: M.D.C.

DESIGNED - P.S.L.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - M.D.C.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 12-37-0003-1 DATE: 07/31/08

SHEET NO. 3
3 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(144-B)BR	FULTON	67	67
IL 116 OVER LITTLERS CREEK		CONTRACT NO. 68091		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

EXISTING STRUCTURE PLANS
STRUCTURE NO. 029-0016