11-21-14 LETTING ITEM 035

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	1
FED. ROAD DIST. NO. 2	ILLINOIS	CONTRACT NO. 64C17		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

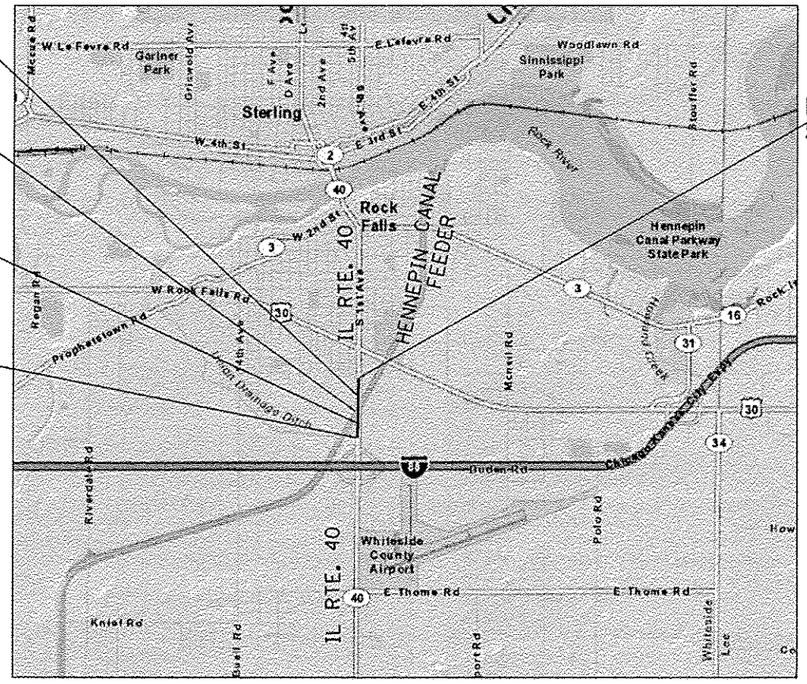
FAP ROUTE 646 (IL 40)
SECTION 101 BR-3
PROJECT: ACNHPP-0646(081)
BRIDGE REPLACEMENT
WHITESIDE COUNTY

D-92-045-06

LOCATION OF SECTION INDICATED THUS:-

C-92-091-12

R 7 E

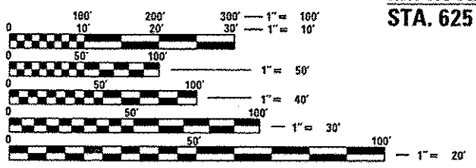


LOCATION MAP

1" = 0.27 MILE

GROSS LENGTH = 850 FEET = 0.161 MILE

NET LENGTH = 850 FEET = 0.161 MILE



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

COLOMA TOWNSHIP, SECTION 33 & 34, MONTMORENCY TOWNSHIP, SECTION 3 & 4

PROJECT ENGINEER: BECKY MARRUFFO
PROJECT MANAGER: BECKY MARRUFFO (815) 284-5902

CONTRACT NO. 64C17

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR STATE STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION

OTHER PRINCIPAL ARTERIAL

2007 ADT = 8,500

2027 ADT = 11,000

POSTED AND DESIGN SPEED LIMIT = 55 MPH

STRAND ASSOCIATES, INC.
IDFPR NO. 184001273

MARC A. GRIGAS
062-060836
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS
8/7/14 Exp. 11/30/15

MARC A. GRIGAS, P.E.
THIS STAMP APPLIES TO
DRAWINGS NO. 1-60, 110-130

ANTHONY J. STANDISH
081-005819
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
Exp 11/2014

ANTHONY J. STANDISH, P.E., S.E.
THIS STAMP APPLIES TO
DRAWINGS NO. 61-109

STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 8-15 20 14
Paul A. Loeton
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 17 20 14
John D. Baranzelli P.E. by
acting ENGINEER OF DESIGN AND ENVIRONMENT
Oct 17 20 14
Amer Osman, P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONSULTANT: STRAND ASSOCIATES INC. (815) 744-4200 ANTHONY J. STANDISH, P.E., S.E. (815) 722-4200

FAP ROUTE 646 WHITESIDE COUNTY SECTION NUMBER 101 BR-3

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATES FOR BRIDGES
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701416-07	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSS OVER AND BARRIER
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME = s:\jol\6300-6399\6346\025\micros\Sht026-4C17-sht-index&standards.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - BJF	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	2
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

1. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

2. IT IS ESTIMATED THAT 630 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 25 % HAS BEEN USED.

3. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

4. THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENT AND ILLINOIS DEPARTMENT OF NATURAL RESOURCES A WORK PLAN PERTAINING TO IN-STREAM/CANAL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT COMMENCE IN-CANAL WORK WITHOUT THE APPROVAL OF THE DEPARTMENT AND ILLINOIS DEPARTMENT OF NATURAL RESOURCES. THE WORK PLAN SHALL INCLUDE PROVISIONS FOR CONSTRUCTION THAT WILL NOT DAMAGE THE EXISTING HENNEPIN CANAL FEEDER. IN THE EVENT MATERIAL ENTERS THE CANAL PRISM, THE CONTRACTOR SHALL REMOVE THE MATERIAL IMMEDIATELY.

5. NO CONSTRUCTION EQUIPMENT OR MATERIALS SHALL BE STORED ON IDNR PROPERTY AT ANY TIME.

6. BICYCLE AND PEDESTRIAN ACCESS SHALL BE MAINTAINED ALONG THE HENNEPIN CANAL PATH AT ALL TIMES.

7. PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL CONTACT DICK SIMON, CITY OF ROCK FALLS, AT 815-716-0120 TO ALLOW HIM TO REMOVE EXISTING LIGHT POLE AT STATION 634+14 RT.

8. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.

9. PREVIOUSLY PUGMILLED STOCKPILES OF TYPE A OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.

10. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION AND MIXTURE USES(S):	RESURFACING			SHOULDERS	
	SURFACE	LEVEL BINDER	BINDER	TOP LIFT	ALL LOWER LIFTS
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ N70	4.0 @ N70	4.0 @ N70	3.0 @ N50	2.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5FG *	IL 19.0 OR 19.0 FG	IL 9.5, OR 9.5FG	IL 19.0 FG OR IL 19.0
FRICTION AGGREGATE	D	N/A	N/A	C	N/A
20 YEAR ESAL	1.8	1.8	1.8	N/A	N/A
MIX UNIT WEIGHT	112 lbs/sy/in			112 lbs/sy/in	
QUALITY MANAGEMENT PROGRAM TO BE USED	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

*ON PROJECTS WITH LESS THAN 2000 TONS LEVEL BINDER, GROWTH CURVE WILL BE USED FOR DENSITY AND IL 9.5 MAY BE USED

ALL TEST STRIPS SHALL BE INCLUDED IN THE COST OF THE MIX AND SHALL NOT BE PAID FOR SEPARATELY.

11. THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

12. REFLECTIVE CRACK CONTROL SHALL BE PLACED ON THE EXISTING SURFACE PRIOR TO ANY RESURFACING, UNLESS PAVEMENT IS MILLED, THEN IT WILL BE PLACED ON THE BINDER COURSE.

13. TWO APPLICATIONS OF BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED.

14. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

15. THIS STRUCTURE WILL RETAIN THE SAME NUMBER 098-0015.

16. THE ADDITIONAL THICKNESS OF PROPOSED PAVEMENT REQUIRED TO MATCH THE BRIDGE APPROACH PAVEMENT, SHOWN IN STANDARD 420401, SHALL BE INCLUDED IN THE COST OF THE PROPOSED PAVEMENT AND NOT PAID FOR SEPARATELY.

17. THE THICKNESS FOR THE BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) ADJACENT TO EXISTING PAVEMENT SHALL BE A MINIMUM OF 12". THE MATERIAL SHALL BE 1.5" HOT-MIX ASPHALT SURFACE COURSE, AND THE REMAINING THICKNESS SHALL BE HOT-MIX ASPHALT BINDER COURSE.

18. REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON THE TOP OF BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE.

19. CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

20. THE CONTRACTOR SHALL INSTALL 18" DIAMETER FORMED OPENINGS IN THE CONCRETE MEDIAN SURFACE, SPACED AT INTERVALS NO GREATER THAN 250', AND/OR AS DIRECTED BY THE ENGINEER. ALL EXISTING PAVEMENT SURFACES OR OTHER EXISTING OBSTRUCTIONS BENEATH THESE OPENINGS SHALL BE REMOVED BY THE CONTRACTOR. AFTER THE MEDIAN IS IN PLACE, CORE EACH OPENING DOWN 4' AND FILL WITH DIRT. ALL COSTS INCURRED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR CONCRETE MEDIAN SURFACE, 4 INCH.

21. EMBANKMENT QUANTITIES FOR THE CONSTRUCTION OF THE TRAFFIC BARRIER TERMINALS AS SHOWN IN THE PLANS ARE INCLUDED IN QUANTITIES FOR FURNISHED EXCAVATION.

22. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT).

23. ONE 16D GALVANIZED NAIL SHALL BE USED TO TOE NAIL THE WOOD BLOCK OUT TO THE WOOD POST ON ALL TRAFFIC BARRIER TERMINAL TYPE 1 SPECIALS.

24. DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180• AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED. DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.

26. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
    1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
    2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
    3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
    4. CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

27. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 2 EACH.

28. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2. OPTION 2 WOULD BE TO INSTALL A VAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT), WITH INSTALLATION INSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS. IF POURED IN PLACE, THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.

29. THE PERMANENT SURVEY MARKERS, IF POSSIBLE, SHALL BE INSTALLED AT THE BEGINNING OF THE JOB AND PROTECTED THROUGHOUT.

30. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE META DATA, SUCH AS THE GEOID USED, (NGS ADJUSTMENT IE: 97 HARN, 03, 07), AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

ELECTRIC	COMMONWEALTH EDISON COMPANY	MR. MARK TULACH	630-437-2212
TELEPHONE	AT&T	MR. DAVID CREEN	309-757-4707
GAS	NICOR GAS COMPANY	MS. CONSTANCE LANE	630-983-8676
ELECTRIC	CITY OF ROCK FALLS	MR. DICK SIMON	815-622-1145
WATER	CITY OF ROCK FALLS	MR. TED PADILLA	815-622-1120
CATV	COMCAST CABLE	MR. MICHAEL OWENS	815-395-8977
TELEPHONE	WINDSTREAM	MR. ANDRES BRAVO	847-345-4024
COMMUNICATIONS	IFIBER	MR. LANCE SANDY	815-753-6075
SEWER	CITY OF ROCK FALLS	MR. EDWARD COX	815-622-1125
COMMUNICATIONS	LIGHTCORE	MR. JUSTIN FRENCH	636-887-4755
COMMUNICATIONS	G4S TECHNOLOGY, LLC	MR. CHANCE EIKER	630-343-2802

32. THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.

33. PER SB 699 (90 DAY UTILITY RELOCATION LAW), ONCE RIGHT-OF-WAY IS CLEAR TO AWARD THE PROJECT, A NOTICE WILL BE SENT TO THE UTILITY COMPANIES INSTRUCTING THEM TO HAVE THEIR FACILITIES RELOCATED WITHIN 90 DAYS. ESTIMATED DATE RELOCATION COMPLETE = AWARD DATE + 100 DAYS.

34. TIE BARS SHALL BE INSTALLED TO TIE PCC APPURTENANCE TO ADJACENT EXISTING CONCRETE PAVEMENT.

35. TIE THE FOLLOWING

TO THE EXISTING CONCRETE PAVEMENT		LENGTH, SIZE, AND SPACING OF TIE BARS
GUTTER OR CURB & GUTTER	STD. 606001	24" LONG NO. 6 @ 24" CTS.
PCC BASE COURSE	STD. 353001	24" LONG NO. 6 @ 30" CTS.
PCC PAVEMENT	STD. 420101	24" LONG NO. 6 @ 30" CTS.

36. TIE BARS TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 420.05(B) OF THE STANDARD SPECIFICATIONS. SEE HIGHWAY STANDARD 420001 FOR DETAIL ON LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE TIE BAR. THE COST OF THE TIE BARS TO BE INCLUDED IN THE COST OF THE PCC APPURTENANCE ADJACENT TO THE EXISTING PAVEMENT.

37. CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

38. TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

39. RELOCATE TEMPORARY IMPACT ATTENUATORS WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

40. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

41. RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

42. ALL "AGGREGATE SUBGRADE IMPROVEMENT" (SECTION 303) SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA06 OR CA10 GRADATION.

43. ANY COLD WEATHER PROTECTION REQUIRED, INCLUDING ANY FOR THE STRUCTURE, SHALL BE INCLUDED IN THE COST OF THE UNIT PRICES BID FOR INDIVIDUAL CONCRETE ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

COMMITMENTS:

1. NO CONSTRUCTION EQUIPMENT OR MATERIALS SHALL BE STORED ON IDNR PROPERTY AT ANY TIME.

2. BICYCLE AND PEDESTRIAN ACCESS SHALL BE MAINTAINED ALONG THE HENNEPIN CANAL PATH AT ALL TIMES.

3. PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL CONTACT DICK SIMON, CITY OF ROCK FALLS, AT 815-716-0120 TO ALLOW HIM TO REMOVE THE EXISTING LIGHT POLE AT STATION 634+14 RT.

4. THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENT AND ILLINOIS DEPARTMENT OF NATURAL RESOURCES A WORK PLAN PERTAINING TO IN-STREAM/CANAL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT COMMENCE IN-CANAL WORK WITHOUT THE APPROVAL OF THE DEPARTMENT AND ILLINOIS DEPARTMENT OF NATURAL RESOURCES. THE WORK PLAN SHALL INCLUDE PROVISIONS FOR CONSTRUCTION THAT WILL NOT DAMAGE THE EXISTING HENNEPIN CANAL FEEDER. IN THE EVENT MATERIAL ENTERS THE CANAL PRISM, THE CONTRACTOR SHALL REMOVE THE MATERIAL IMMEDIATELY.

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
20200100	EARTH EXCAVATION	CU YD	1,580	1,580	
20400800	FURNISHED EXCAVATION	CU YD	630	630	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	448		448
20900110	POROUS GRANULAR BACKFILL	CU YD	250	250	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,820	4,820	
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	96	96	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	96	96	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	96	96	
25100115	MULCH, METHOD 2	ACRE	1.25	1.25	
25100630	EROSION CONTROL BLANKET	SQ YD	5,109	5,109	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3,500	3,500	
28000400	PERIMETER EROSION BARRIER	FOOT	1,696	1,696	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	

+ SPECIALTY ITEM

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
28100107	STONE RIPRAP, CLASS A4	SQ YD	30	30	
28200200	FILTER FABRIC	SQ YD	30	30	
30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	567	567	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	861	861	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	122	122	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,576	1,576	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	180	180	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	406	406	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	213	213	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4,780.0	4,780.0	
44000100	PAVEMENT REMOVAL	SQ YD	163	163	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,368	3,368	
44000600	SIDEWALK REMOVAL	SQ FT	700	700	

+ SPECIALTY ITEM

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

USER NAME : brianf
PLOT SCALE : 20.0000 '/ in.
PLOT DATE : 8/14/2014

DESIGNED - VLF
DRAWN - DJW
CHECKED - MAG
DATE - 8-14-14

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 2 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	6

CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
44004250	PAVED SHOULDER REMOVAL	SQ YD	1,873	1,873	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	325	325	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	1,721	1,721	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	82.0		82.0
50200100	STRUCTURE EXCAVATION	CU YD	1,313		1,313
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	448		448
50300225	CONCRETE STRUCTURES	CU YD	778.0		778.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	643.0		643.0
50300260	BRIDGE DECK GROOVING	SQ YD	1,307		1,307
50300300	PROTECTIVE COAT	SQ YD	1,431		1,431
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	6,480		6,480
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	271,220		271,220

+ SPECIALTY ITEM

FILE NAME = ...

STRAND ASSOCIATES
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 3 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	7

CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
50800515	BAR SPLICERS	EACH	941		941
50901720	BICYCLE RAILING	FOOT	478	478	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	4,701		4,701
51202305	DRIVING PILES	FOOT	4,701		4,701
51203600	TEST PILE STEEL HP12X53	EACH	2		2
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	378		378
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16		16
52100520	ANCHOR BOLTS, 1"	EACH	64		64
58700300	CONCRETE SEALER	SQ FT	3,921		3,921
59000200	EPOXY CRACK INJECTION	FOOT	100		100
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	409		409
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60261000	INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	2	2	

+ SPECIALTY ITEM

FILE NAME = s:\jol\6300--6399\6346\025\Micros\Sht\0264C17-sht-SOQ1.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 4 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	8

CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
	60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	2,319.0	2,319.0	
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	4,691	4,691	
	60623200	CONCRETE MEDIAN, TYPE SM-6.24	SQ FT	4,596	4,596	
+	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	196	196	
+	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
+	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3	
+	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
	63200310	GUARDRAIL REMOVAL	FOOT	205	205	
+	63500105	DELINEATORS	EACH	2	2	
	63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	401	401	
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
	67100100	MOBILIZATION	L SUM	1	1	
	70100410	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	EACH	1	1	

+ SPECIALTY ITEM

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	46.8	46.8	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	22,577	22,577	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	348	348	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	34	34	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6,471	6,471	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,906	2,906	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2,555	2,555	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

+ SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
+	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	93.6	93.6	
+	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	7,053	7,053	
+	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1,878	1,878	
+	78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	670	670	
+	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	32	32	
+	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	36	36	
	78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	212	212	
+	78100300	REPLACEMENT REFLECTOR	EACH	107	107	
+	78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12	
+	78200520	BARRIER WALL MARKERS, TYPE B	EACH	156	156	
+	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	3,820	3,820	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6	
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	1,430	1,430	

14

+ SPECIALTY ITEM

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STRAND ASSOCIATES
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 7 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	11
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	783	783	
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	7,210	7,210	
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	12,893		12,893
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	545		545
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
+ X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	80		80
Z0004552	APPROACH SLAB REMOVAL	SQ YD	834	834	
Z0004638	PAVEMENT BREAKING	SQ YD	1,777	1,777	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50		50
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	2,472		2,472
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	304		304
Z0062456	TEMPORARY PAVEMENT	SQ YD	1,430	1,430	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL	CONST. CODE 80% FED 20% STATE BRIDGE 0011 S.N. 098-0015
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2,795		2,795

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

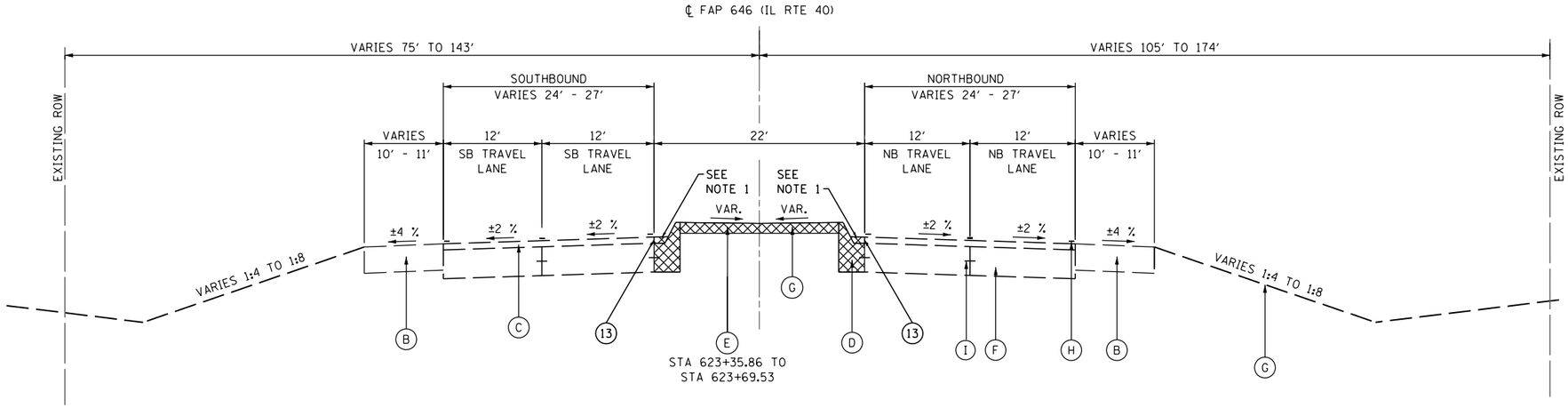
SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 9 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	13

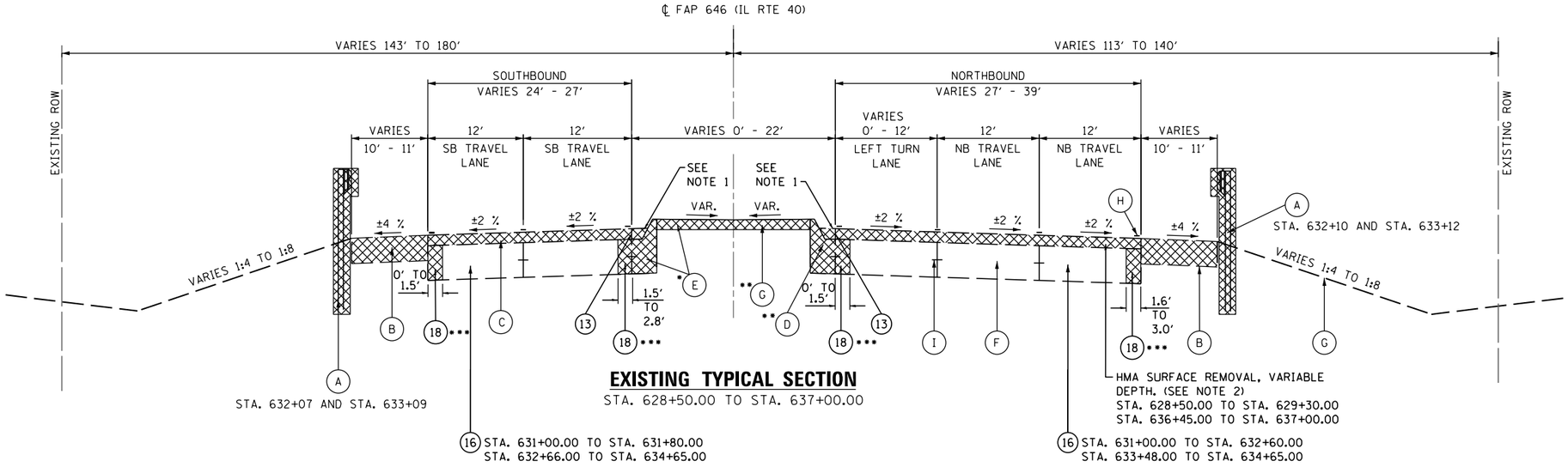
CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



EXISTING TYPICAL SECTION

STA. 623+35.80 TO STA. 628+50.00



EXISTING TYPICAL SECTION

STA. 628+50.00 TO STA. 637+00.00

* STA. 631+92.14 TO STA. 632+17.30
STA. 632+95.14 TO STA. 636+70.10

** STA. 628+50.00 TO STA. 631+92.14

*** STA. 628+50.00 TO STA. 631+00.00

EXISTING LEGEND

- (A) EXISTING GUARDRAIL
- (B) EXISTING HMA SHOULDER
- (C) EXISTING HMA SURFACE COURSE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING PCC PAVEMENT
- (G) EXISTING GROUND
- (H) EXISTING PAVEMENT MARKING
- (I) TIE BARS
- REMOVAL ITEMS

PROPOSED LEGEND

1. TOPSOIL FURNISH AND PLACE, 4″
2. SEEDING, CLASS 2A
3. MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS
4. AGGREGATE SUBGRADE IMPROVEMENT, 12″
5. LEVELING BINDER (MACHINE METHOD), N70 (112 LBS/SY-IN)
6. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (112 LBS/SY-IN)
7. HOT-MIX ASPHALT SURFACE COURSE, MIX ″C″, N50 (112 LBS/SY-IN)
8. HOT-MIX ASPHALT SURFACE COURSE, MIX ″D″, N70 (112 LBS/SY-IN)
9. HOT-MIX ASPHALT SHOULDERS, 6½″
10. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
11. CONCRETE MEDIAN SURFACE, 4 INCH
12. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), 2, 5, OR 6
13. SAW CUTS (INCIDENTAL TO C&G REMOVAL)
14. TIE BARS
15. BITUMINOUS MATERIALS (PRIME COAT)
16. PAVEMENT BREAKING
17. AGGREGATE SUBGRADE IMPROVEMENT
18. PAVEMENT REMOVAL
19. STRIP REFLECTIVE CRACK CONTROL TREATMENT
20. CONCRETE MEDIAN, TYPE SM-6.24

NOTES:

1. REMOVAL OF EXISTING HMA SURFACE COURSE ON TOP OF EXISTING GUTTER PAN SHALL BE INCLUDED IN COST OF CURB AND GUTTER REMOVAL.
2. THE EXISTING HMA SURFACE SHALL BE REMOVED TO THE EXISTING SURFACE OF THE PCC PAVEMENT AND THEN TAPER TO THE EXISTING HMA SURFACE AT A POINT WHERE A TOTAL OF 3¾″ OF HMA PAVEMENT CAN BE PLACED BETWEEN THE PROPOSED PROFILE AND EXISTING HMA PAVEMENT SURFACE. REFER TO SPECIAL PROVISION.

FILE NAME = s:\pol\6300-6399\6346\025\micros\Sht\026417-sht-typical.dgn

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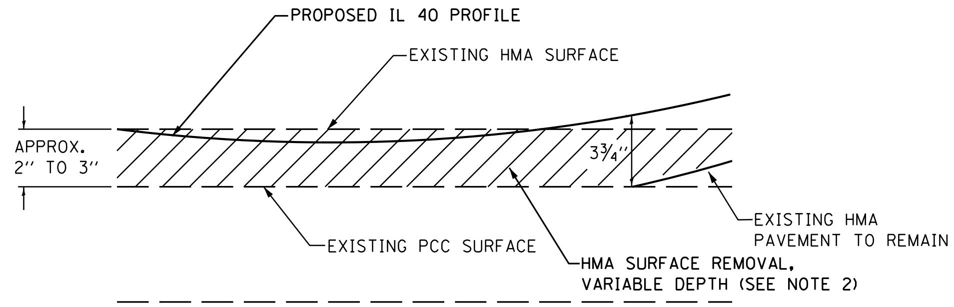
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS | SHEET 1 OF 5 SHEETS | STA. | TO STA.

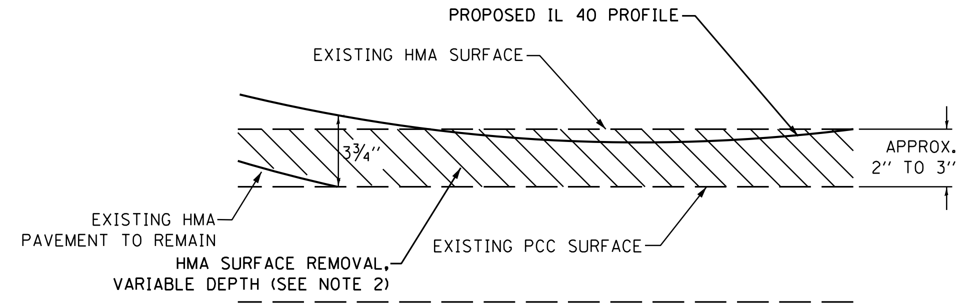
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	14
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



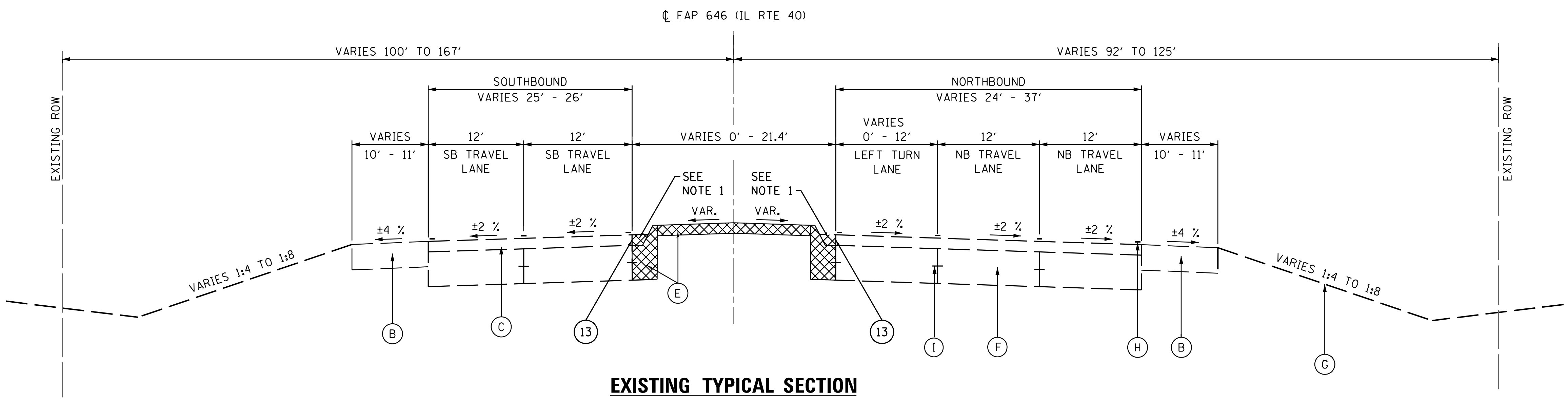
HMA SURFACE REMOVAL, VARIABLE DEPTH DETAIL

APPROXIMATE STATIONS
STA. 628+50.00 TO STA. 629+30.00



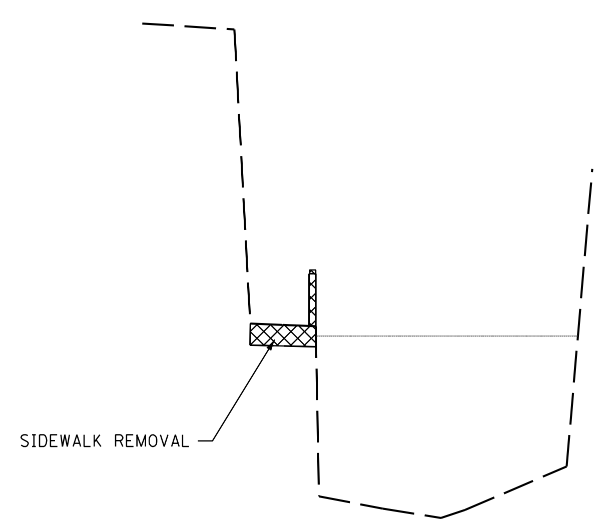
HMA SURFACE REMOVAL, VARIABLE DEPTH DETAIL

APPROXIMATE STATIONS
STA. 636+45.00 TO STA. 637+00.00



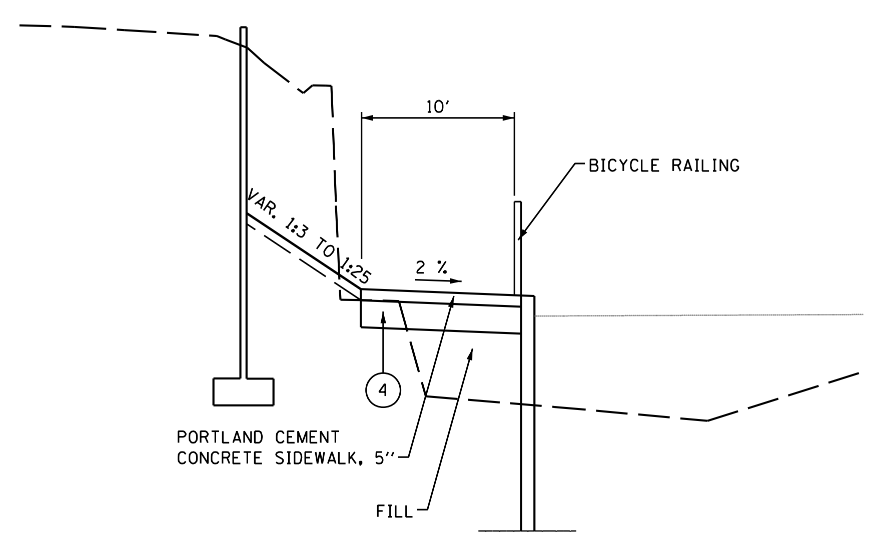
EXISTING TYPICAL SECTION

STA. 637+60.02 TO STA. 641+71.93



EXISTING BIKE PATH TYPICAL SECTION

STA. 200+00.00 TO STA. 204+75.67



PROPOSED BIKEPATH TYPICAL SECTION

STA. 200+00.00 TO STA. 204+75.67

EXISTING LEGEND

- (A) EXISTING GUARDRAIL
- (B) EXISTING HMA SHOULDER
- (C) EXISTING HMA SURFACE COURSE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING PCC PAVEMENT
- (G) EXISTING GROUND
- (H) EXISTING PAVEMENT MARKING
- (I) TIE BARS
- REMOVAL ITEMS

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4"
- (2) SEEDING, CLASS 2A
- (3) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) LEVELING BINDER (MACHINE METHOD), N70 (112 LBS/SY-IN)
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (112 LBS/SY-IN)
- (7) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (112 LBS/SY-IN)
- (8) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (112 LBS/SY-IN)
- (9) HOT-MIX ASPHALT SHOULDERS, 6½"
- (10) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (11) CONCRETE MEDIAN SURFACE, 4 INCH
- (12) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), 2, 5, OR 6
- (13) SAW CUTS (INCIDENTAL TO C&G REMOVAL)
- (14) TIE BARS
- (15) BITUMINOUS MATERIALS (PRIME COAT)
- (16) PAVEMENT BREAKING
- (17) AGGREGATE SUBGRADE IMPROVEMENT
- (18) PAVEMENT REMOVAL
- (19) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (20) CONCRETE MEDIAN, TYPE SM-6.24

NOTES:

1. REMOVAL OF EXISTING HMA SURFACE COURSE ON TOP OF EXISTING GUTTER PAN SHALL BE INCLUDED IN COST OF CURB AND GUTTER REMOVAL.
2. THE EXISTING HMA SURFACE SHALL BE REMOVED TO THE EXISTING SURFACE OF THE PCC PAVEMENT AND THEN TAPER TO THE EXISTING HMA SURFACE AT A POINT WHERE A TOTAL OF 3¾" OF HMA PAVEMENT CAN BE PLACED BETWEEN THE PROPOSED PROFILE AND EXISTING HMA PAVEMENT SURFACE. REFER TO SPECIAL PROVISION.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

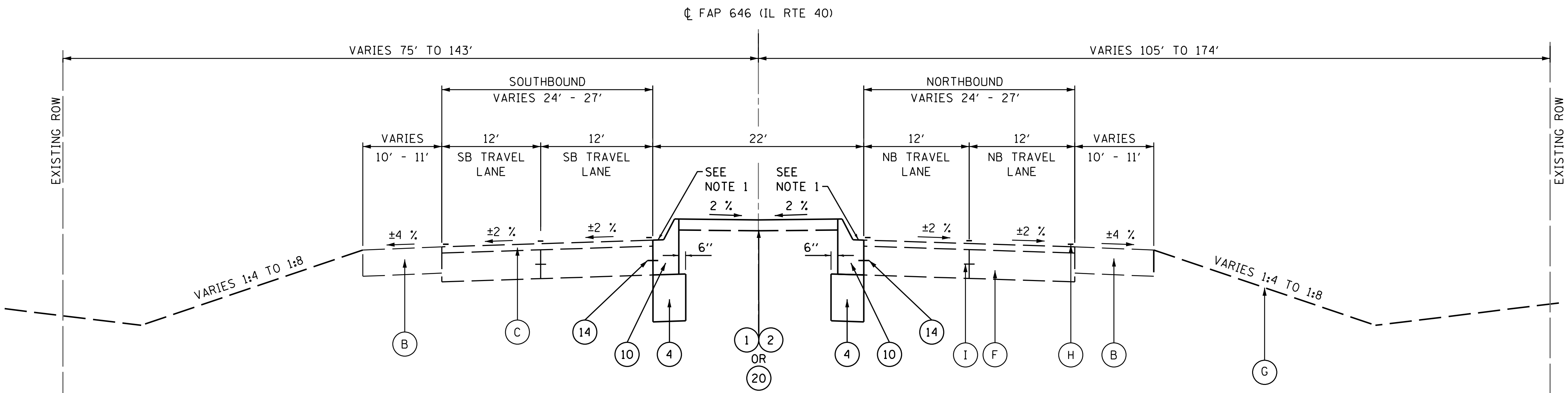
TYPICAL SECTIONS

SCALE: NTS | SHEET 2 OF 5 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	15

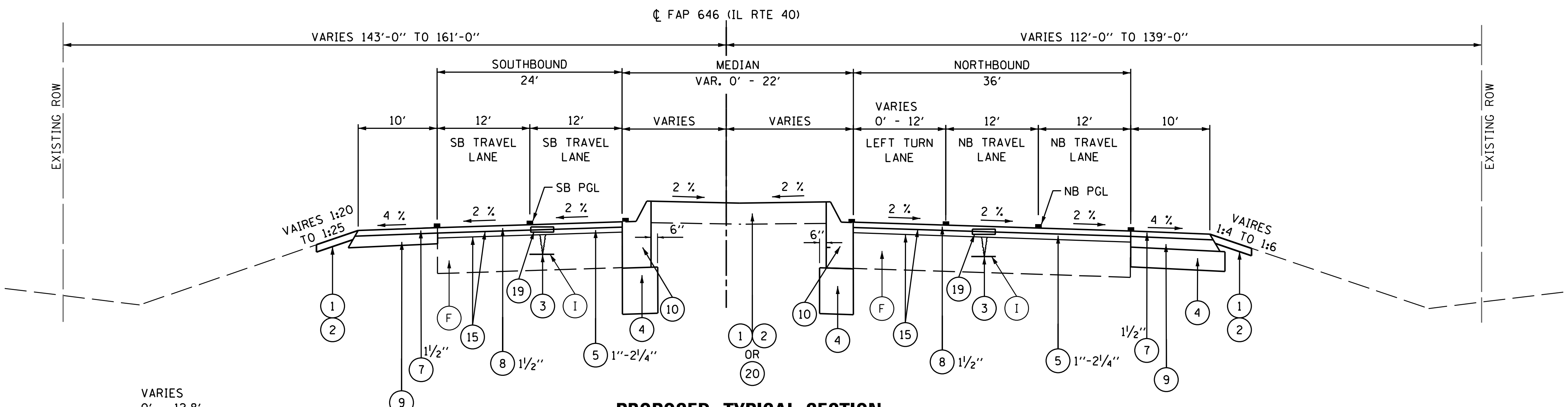
CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



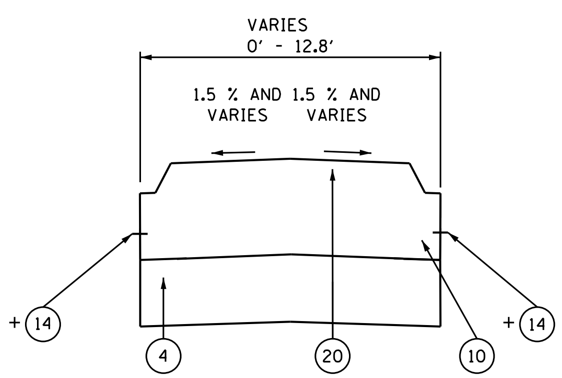
PROPOSED TYPICAL SECTION

STA. 625+35.80 TO STA. 628+50.00



PROPOSED TYPICAL SECTION

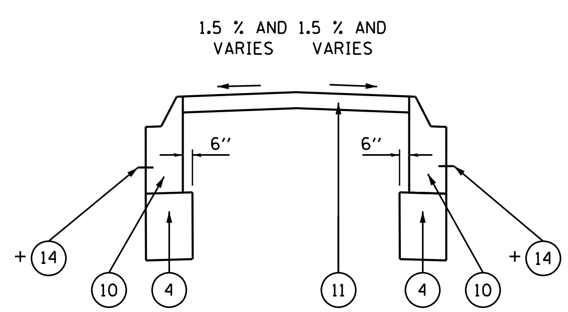
NB AND SB STA. 628+50.00 TO STA. 629+30.00
NB AND SB STA. 636+45.00 TO STA. 637+00.00



CONCRETE MEDIAN, TYPE SM-6.24

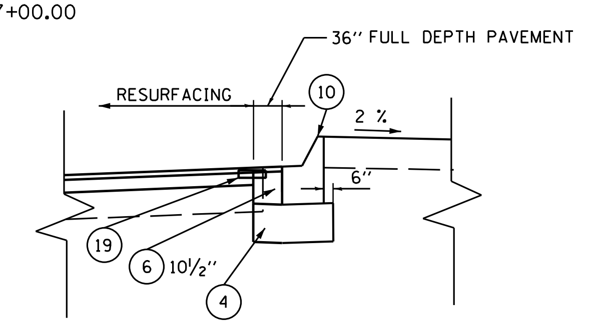
STA. 623+35.80 TO STA. 623+45.86
STA. 634+25.50 TO STA. 636+80.10
STA. 637+62.05 TO STA. 637+72.05
STA. 639+91.00 TO STA. 641+71.93

\+ PROVIDE TIE BARS WHEN MEDIAN IS ADJACENT TO PCC PAVEMENT



CONCRETE MEDIAN SURFACE TYPICAL

STA. 631+82.81 TO 631+91.45
STA. 633+28.70 TO 634+25.50
STA. 637+72.05 TO STA. 639+91.00



INSIDE EDGE OF PAVEMENT WIDENING DETAIL

SB STA. 628+50.00 TO STA. 631+00.00

EXISTING LEGEND

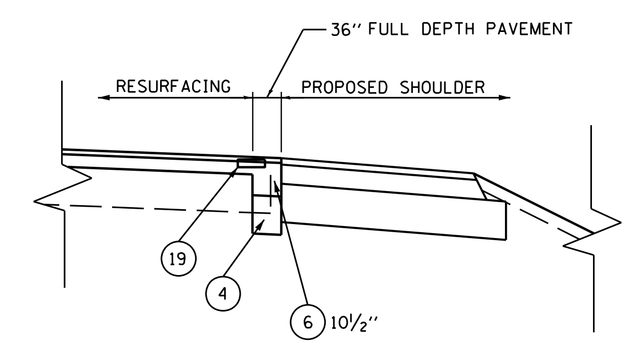
- (A) EXISTING GUARDRAIL
- (B) EXISTING HMA SHOULDER
- (C) EXISTING HMA SURFACE COURSE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING PCC PAVEMENT
- (G) EXISTING GROUND
- (H) EXISTING PAVEMENT MARKING
- (I) TIE BARS
- REMOVAL ITEMS

PROPOSED LEGEND

1. TOPSOIL FURNISH AND PLACE, 4"
2. SEEDING, CLASS 2A
3. MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS
4. AGGREGATE SUBGRADE IMPROVEMENT, 12"
5. LEVELING BINDER (MACHINE METHOD), N70 (112 LBS/SY-IN)
6. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (112 LBS/SY-IN)
7. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (112 LBS/SY-IN)
8. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (112 LBS/SY-IN)
9. HOT-MIX ASPHALT SHOULDERS, 6½"
10. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
11. CONCRETE MEDIAN SURFACE, 4 INCH
12. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), 2, 5, OR 6
13. SAW CUTS (INCIDENTAL TO C&G REMOVAL)
14. TIE BARS
15. BITUMINOUS MATERIALS (PRIME COAT)
16. PAVEMENT BREAKING
17. AGGREGATE SUBGRADE IMPROVEMENT
18. PAVEMENT REMOVAL
19. STRIP REFLECTIVE CRACK CONTROL TREATMENT
20. CONCRETE MEDIAN, TYPE SM-6.24

NOTES:

1. GUTTER PANS FOR COMBINATION CONCRETE CURB AND GUTTER TYPE M-6.24 SHALL BE REJECT SLOPING AT 2 % TOWARDS THE EDGE OF PAVEMENT.



OUTISDE EDGE OF PAVEMENT WIDENING DETAIL

NB STA. 628+50.00 TO STA. 631+00.00

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

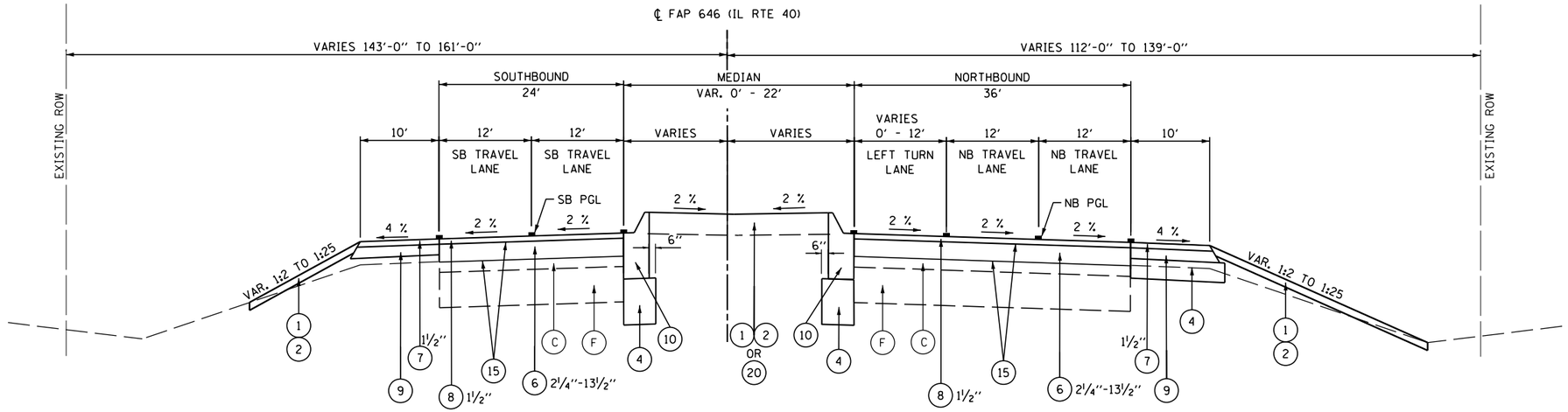
TYPICAL SECTIONS

SCALE: NTS | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	16

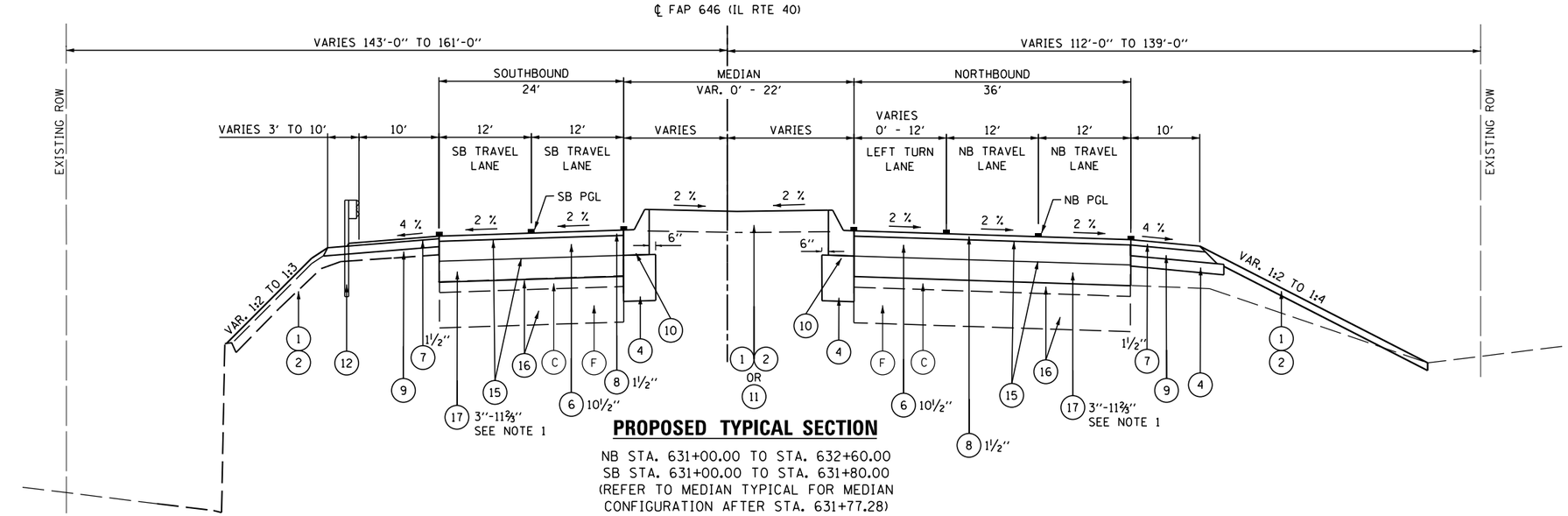
CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



PROPOSED TYPICAL SECTION

NB AND SB STA. 629+30.00 TO STA. 631+00.00 *
NB AND SB STA. 634+65.00 TO STA. 636+45.00 * *



PROPOSED TYPICAL SECTION

NB STA. 631+00.00 TO STA. 632+60.00
SB STA. 631+00.00 TO STA. 631+80.00
(REFER TO MEDIAN TYPICAL FOR MEDIAN CONFIGURATION AFTER STA. 631+77.28)

EXISTING LEGEND

- (A) EXISTING GUARDRAIL
- (B) EXISTING HMA SHOULDER
- (C) EXISTING HMA SURFACE COURSE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING PCC PAVEMENT
- (G) EXISTING GROUND
- (H) EXISTING PAVEMENT MARKING
- (I) TIE BARS
- REMOVAL ITEMS

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4"
- (2) SEEDING, CLASS 2A
- (3) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) LEVELING BINDER (MACHINE METHOD), N70 (112 LBS/SY-IN)
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (112 LBS/SY-IN)
- (7) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (112 LBS/SY-IN)
- (8) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (112 LBS/SY-IN)
- (9) HOT-MIX ASPHALT SHOULDERS, 6½"
- (10) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (11) CONCRETE MEDIAN SURFACE, 4 INCH
- (12) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), 2, 5, OR 6
- (13) SAW CUTS (INCIDENTAL TO C&G REMOVAL)
- (14) TIE BARS
- (15) BITUMINOUS MATERIALS (PRIME COAT)
- (16) PAVEMENT BREAKING
- (17) AGGREGATE SUBGRADE IMPROVEMENT
- (18) PAVEMENT REMOVAL
- (19) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (20) CONCRETE MEDIAN, TYPE SM-6.24

NOTES:

1. THE TOP 3" OF THE AGGREGATE SUBGRADE IMPROVEMENT ON TOP OF PAVEMENT BREAKING SHALL BE CA 6 OR CA 10, TO BE INCLUDED IN THE COST OF AGGREGATE SUBGRADE IMPROVEMENT.

FILE NAME = s:\pl\6300-6399\6346\025\micros\Sht\0264C17-sht-typical.dgn

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	DRAWN - DJW	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

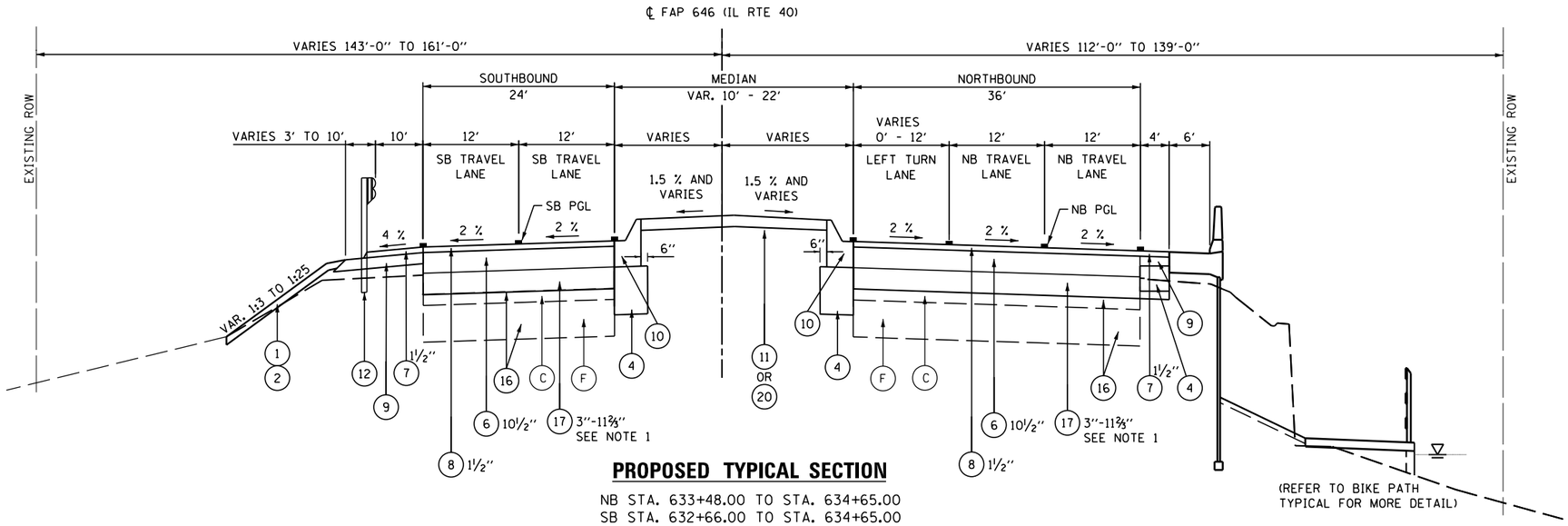
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS | SHEET 4 OF 5 SHEETS | STA. | TO STA.

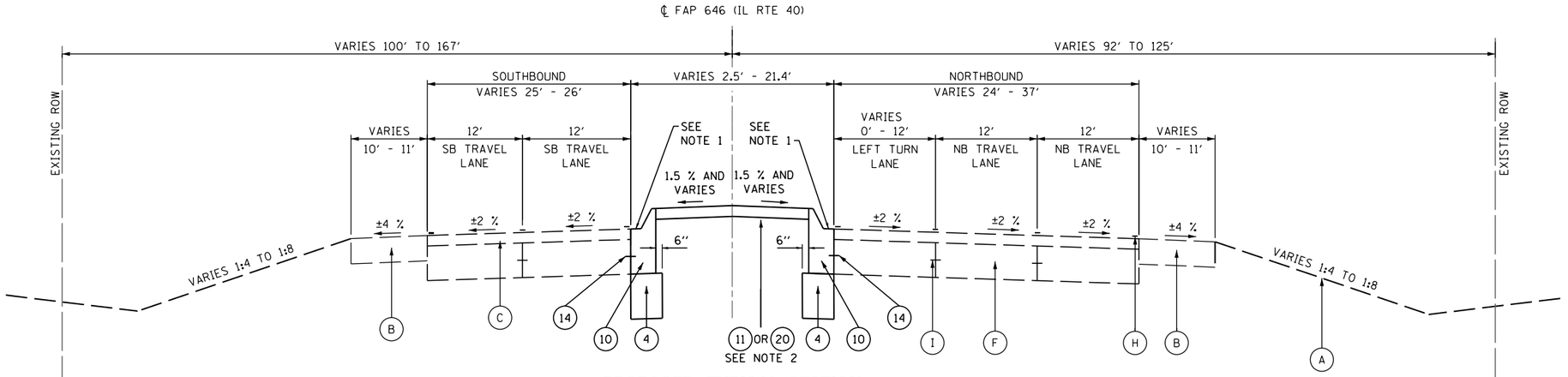
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	17
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



PROPOSED TYPICAL SECTION

NB STA. 633+48.00 TO STA. 634+65.00
SB STA. 632+66.00 TO STA. 634+65.00



PROPOSED TYPICAL SECTION

STA. 637+62.05 TO STA. 641+71.93

EXISTING LEGEND

- (A) EXISTING GUARDRAIL
- (B) EXISTING HMA SHOULDER
- (C) EXISTING HMA SURFACE COURSE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING PCC PAVEMENT
- (G) EXISTING GROUND
- (H) EXISTING PAVEMENT MARKING
- (I) TIE BARS
- REMOVAL ITEMS

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4"
- (2) SEEDING, CLASS 2A
- (3) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) LEVELING BINDER (MACHINE METHOD), N70 (112 LBS/SY-IN)
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (112 LBS/SY-IN)
- (7) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (112 LBS/SY-IN)
- (8) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (112 LBS/SY-IN)
- (9) HOT-MIX ASPHALT SHOULDERS, 6½"
- (10) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (11) CONCRETE MEDIAN SURFACE, 4 INCH
- (12) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), 2, 5, OR 6
- (13) SAW CUTS (INCIDENTAL TO C&G REMOVAL)
- (14) TIE BARS
- (15) BITUMINOUS MATERIALS (PRIME COAT)
- (16) PAVEMENT BREAKING
- (17) AGGREGATE SUBGRADE IMPROVEMENT
- (18) PAVEMENT REMOVAL
- (19) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (20) CONCRETE MEDIAN, TYPE SM-6.24

NOTES:

1. GUTTER PANS FOR COMBINATION CONCRETE CURB AND GUTTER TYPE M-6.24 SHALL BE REJECT SLOPING AT 2 % TOWARDS THE EDGE OF PAVEMENT.
2. SEE MEDIAN DETAIL SHEETS FOR CONCRETE MEDIAN, TYPE SM-6.24 FROM STA. 637+62.05 TO STA. 637+72.05 AND STA. 639+91.00 TO STA. 641+71.93.
3. THE TOP 3" OF THE AGGREGATE SUBGRADE IMPROVEMENT ON TOP OF PAVEMENT BREAKING SHALL BE CA 6 OR CA 10, TO BE INCLUDED IN THE COST OF AGGREGATE SUBGRADE IMPROVEMENT.

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USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - DJW	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	18
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

SUMMARY

STAGE	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
PRE-STAGE	905.00	680.00	0.00	680.00
STAGE 1	200.00	150.00	210.00	-60.00
STAGE 2	75.00	55.00	405.00	-345.00
STAGE 3	400.00	300.00	470.00	-165.00
BIKE PATH	60.00	45.00	105.00	-60.00
TOTAL QUANTITIES	1,580	1,185	1,085	-630

IL ROUTE 40

PRESTAGE EARTHWORK COMPUTATION

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
					EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD
623+36	624+00	60	45	0	45
624+00	625+00	120	90	0	90
625+00	626+00	123	92	0	92
626+00	627+00	121	91	0	91
627+00	628+00	122	92	0	92
628+00	629+00	118	88	0	88
633+09	634+00	16	12	0	12
634+00	634+60	17	12	0	12
637+62	638+00	24	18	0	18
638+00	639+00	73	55	0	55
639+00	640+00	56	42	0	42
640+00	641+00	33	25	0	25
641+00	641+72	21	16	0	16
Totals		905	680	0	680

IL ROUTE 40

BIKE PATH EARTHWORK COMPUTATION

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
					EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD
200+00	201+00	2	2	90	-88
201+00	202+00	9	7	0	7
202+00	203+00	11	8	0	8
203+00	204+00	7	5	7	-2
204+00	205+00	29	22	7	14
Totals		60	45	105	-60

IL ROUTE 40

STAGE 1 EARTHWORK COMPUTATION

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
					EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD
628+50	629+00	56	42	2	40
629+00	630+00	56	42	1	42
630+00	631+00	15	11	30	-19
631+00	632+00	0	0	94	-94
632+00	633+00	0	0	49	-49
633+00	634+00	0	0	5	-5
634+00	635+00	1	1	20	-20
635+00	636+00	25	18	8	11
636+00	637+00	44	33	0	33
Totals		200	150	210	-60

IL ROUTE 40

STAGE 2 EARTHWORK COMPUTATION

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
					EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD
628+50	629+00	22	16	2	14
629+00	630+00	22	16	9	7
630+00	631+00	12	9	50	-41
631+00	632+00	5	4	30	-26
632+00	633+00	0	0	56	-56
633+00	634+00	1	1	131	-130
634+00	635+00	1	1	94	-93
635+00	636+00	2	2	25	-23
636+00	637+00	7	5	6	0
Totals		75	55	405	-345

IL ROUTE 40

STAGE 3 EARTHWORK COMPUTATION

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION 20400800
					EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD
623+36	624+00	19	15	21	-6
624+00	625+00	30	23	40	-17
625+00	626+00	30	23	40	-18
626+00	627+00	30	23	40	-18
627+00	628+00	30	23	40	-18
628+00	629+00	8	6	38	-32
629+00	630+00	0	0	12	-12
630+00	631+00	0	0	44	-44
631+00	632+00	0	0	62	-62
632+00	633+00	0	0	0	0
633+00	634+00	0	0	58	-58
634+00	635+00	10	7	14	-7
635+00	636+00	23	18	0	18
636+00	637+00	22	17	0	17
637+62	638+00	27	20	27	-6
638+00	639+00	35	26	25	1
639+00	640+00	58	44	5	39
640+00	641+00	60	45	0	45
641+00	641+72	13	10	0	10
Totals		400	300	470	-165

FILE NAME = S:\JOL\63000--69999\6346\825\Mureas\Sht\02564C17-sht-schedule1.dgn

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1170 SOUTH HOUBOLT ROAD
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USER NAME = brianf	DESIGNED - VLF	REVISED - ⚠ 04-05-13
	DRAWN - DJW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	19
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

21101615 TOPSOIL FURNISH AND PLACE, 4"

SQ YD

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	633+11.00	772.50
LT	STA.	633+79.00	TO	STA.	637+55.00	1347.40
RT	STA.	628+50.00	TO	STA.	632+65.00	583.77
RT	STA.	632+65.00	TO	STA.	637+00.00	563.11
MEDIAN	STA.	623+45.86	TO	STA.	631+82.81	1552.50
TOTAL:						4820.00 SQ YD

25000210 SEEDING, CLASS 2A

ACRE

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	637+00.00	0.30
RT	STA.	628+50.00	TO	STA.	633+55.00	0.38
MEDIAN	STA.	633+74.72	TO	STA.	637+00.00	0.32
					ADUSTMENT:	+6.0%
TOTAL:						1.25 ACRE

25000400 NITROGEN FERTILIZER NUTRIENT

POUND

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	637+00.00	29.00
RT	STA.	628+50.00	TO	STA.	633+55.00	26.80
MEDIAN	STA.	633+74.72	TO	STA.	637+00.00	34.20
					ADUSTMENT:	+6.0%
TOTAL:						96 POUND

25000500 PHOSPHORUS FERTILIZER NUTRIENT

POUND

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	637+00.00	29.00
RT	STA.	628+50.00	TO	STA.	633+55.00	26.80
MEDIAN	STA.	633+74.72	TO	STA.	637+00.00	34.20
					ADUSTMENT:	+6.0%
TOTAL:						96 POUND

25000600 POTASSIUM FERTILIZER NUTRIENT

POUND

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	637+00.00	29.00
RT	STA.	628+50.00	TO	STA.	633+55.00	26.80
MEDIAN	STA.	633+74.72	TO	STA.	637+00.00	34.20
					ADUSTMENT:	+6.0%
TOTAL:						96 POUND

25100115 MULCH, METHOD 2

ACRE

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	637+00.00	0.30
RT	STA.	628+50.00	TO	STA.	633+55.00	0.38
MEDIAN	STA.	633+74.72	TO	STA.	637+00.00	0.32
					ADUSTMENT:	+6.0%
TOTAL:						1.25 ACRE

25100630 EROSION CONTROL BLANKET

SQ YD

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	633+11.00	772.50
LT	STA.	633+79.00	TO	STA.	637+55.00	1347.40
RT	STA.	628+50.00	TO	STA.	632+65.00	583.77
RT	STA.	632+65.00	TO	STA.	637+00.00	563.11
MEDIAN	STA.	623+45.86	TO	STA.	631+82.81	1552.50
					ADUSTMENT:	+6.0%
TOTAL:						5109 SQ YD

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	631+48.27	43.80
RT	STA.	633+74.72	TO	STA.	637+00.00	23.70
MEDIAN	STA.	623+45.86	TO	STA.	631+82.81	32.10
					35 APPLICATIONS:	
TOTAL:						3500.00 POUND

28000400 PERIMETER EROSION BARRIER

FOOT

LOCATION						QUANTITY
IL 40						
LT	STA.	628+50.00	TO	STA.	630+78.00	230.70
LT	STA.	632+09.55	TO	STA.	637+00.00	505.15
RT	STA.	628+50.00	TO	STA.	633+10.00	466.00
RT	STA.	634+52.12	TO	STA.	637+00.00	494.00
TOTAL:						1696.00 FOOT

28000500 INLET AND PIPE PROTECTION

EACH

LOCATION		OFFSET (FT)		QUANTITY
IL 40				
STA.	624+08.60	0.00		1.00
STA.	627+08.50	0.00		1.00
STA.	636+73.46	82.75	RT	1.00
STA.	637+08.82	100.25	RT	1.00
TOTAL:				4.00 EACH

28100107 STONE RIPRAP, CLASS A4

SQ YD

LOCATION						QUANTITY
BIKE PATH						
STA.	200+09.24	TO	200+30.94	RT		30.00
TOTAL:						30.00 SQ YD

28200200 FILTER FABRIC

SQ YD

LOCATION						QUANTITY
BIKE PATH						
STA.	200+09.24	TO	200+30.94	RT		30.00
TOTAL:						30.00 SQ YD

30300011 AGGREGATE SUBGRADE IMPROVEMENT

TONS

LOCATION						QUANTITY
IL 40						
STA.	631+00.00	TO	632+47.68	RT		202.50
STA.	632+47.68	TO	632+85.00	RT		68.50
STA.	632+85.00	TO	633+57.00	LT		175.00
STA.	633+57.00	TO	634+65.00	LT		121.00
TOTAL:						567.00 TONS

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

SQ YD

LOCATION						QUANTITY
IL 40						
STA.	628+50.00	TO	630+85.00			291.66
STA.	630+85.00	TO	632+65.00			290.00
STA.	634+78.00	TO	637+00.00			278.80
TOTAL:						861.00 SQ YD

40600400 MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS

TON

LOCATION						QUANTITY
IL 40						
STA.	628+50.00	TO	629+30.00			1.00
STA.	636+45.00	TO	637+00.00			1.00
TOTAL:						2.00 TON

40600635 LEVELING BINDER (MACHINE METHOD), N70

TON

LOCATION					AREA (SQ YD)	AVG. DEPTH (IN)	QUANTITY
IL 40							
STA.	628+50.00	TO	629+30.00	LT	240.00	2.00	33.6
STA.	636+45.00	TO	636+80.10	LT	93.60	2.00	13.1
STA.	628+50.00	TO	629+30.00	RT	240.00	2.00	33.6
STA.	636+45.00	TO	636+80.10	RT	140.40	2.00	19.7
STA.	636+80.10	TO	637+00.00	RT/LT	154.78	2.00	21.7
TOTAL:							122.00 TON

FILE NAME = S:\JOL\6300-6399\6346\025\Micros\Sht\0264C17-sht-schedule1.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	20
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

TON

LOCATION					QUANTITY
IL 40					
STA.	629+40.00	TO	631+65.99	LT	245.50
STA.	629+40.00	TO	632+47.68	RT	376.65
STA.	632+85.09	TO	636+45.00	LT	440.25
STA.	633+46.20	TO	636+45.00	RT	513.21
TOTAL:					1576.00 TON

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

TON

LOCATION					AREA (SQ YD)	DEPTH (IN)	QUANTITY
IL 40							
STA.	628+50.00	TO	631+35.59	LT	312.50	1.50	37.42
STA.	632+54.30	TO	637+00.00	LT	550.04	1.50	55.80
STA.	628+50.00	TO	632+75.33	RT	524.62	1.50	54.44
STA.	634+78.63	TO	637+00.00	RT	277.23	1.50	32.02
TOTAL:							180.00 TON

40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

TON

LOCATION					AREA (SQ YD)	DEPTH (IN)	QUANTITY
IL 40							
STA.	628+50.00	STA.	631+65.99	LT	1782.00	1.75	174.60
STA.	632+85.09	STA.	637+00.00	RT	2205.00	1.75	216.10
STA.	628+50.00	STA.	632+05.06	RT/LT	154.78	1.75	15.17
TOTAL:							406.00 TON

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

SQ YD

LOCATION				QUANTITY
IL 40				
STA.	631+00.00	TO	633+06.16	115.77
STA.	633+28.72	TO	633+40.95	96.58
TOTAL:				213.00 SQ YD

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

SQ FT

LOCATION				AVE WIDTH (FT)	QUANTITY
IL 40					
STA.	200+00.00	TO	204+78.00	10.00	4780.00
TOTAL:					4780.00 SQ FT

44000100 PAVEMENT REMOVAL

SQ YD

LOCATION					QUANTITY
IL 40					
STA.	628+50.00	TO	631+00.00	LT	76.20
STA.	628+50.00	TO	631+00.00	RT	86.80
TOTAL:					163.00 SQ YD

44000500 COMBINATION CONCRETE CURB AND GUTTER REMOVAL

FOOT

LOCATION					QUANTITY
IL 40					
STA.	623+38.50	TO	632+31.32		1768.97
STA.	632+72.35	TO	636+70.10		770.68
STA.	637+60.02	TO	641+71.93		827.91
TOTAL:					3368.00 FOOT

44000600 SIDEWALK REMOVAL

SQ FT

LOCATION					WIDTH (FT)	QUANTITY
IL 40						
STA.	200+15.52	TO	200+81.06		6.00	247.40
STA.	202+77.73	TO	203+68.39		6.00	451.70
TOTAL:						700.00 SQ FT

44004250 PAVED SHOULDER REMOVAL

SQ YD

LOCATION					QUANTITY
IL 40					
STA.	628+50.00	TO	631+00.00	LT	300.00
STA.	628+50.00	TO	631+00.00	RT	296.20
STA.	631+00.00	TO	637+00.00	LT	655.40
STA.	631+00.00	TO	637+00.00	RT	621.60
TOTAL:					1873 SQ YD

44300200 STRIP REFLECTIVE CRACK CONTROL TREATMENT

FOOT

LOCATION				QUANTITY
IL 40				
STA.	628+50.00	TO	637+00.00	325.00
TOTAL:				325.00 FOOT

48203023 HOT-MIX ASPHALT SHOULDERS, 6 1/2"

SQ YD

LOCATION					QUANTITY
IL 40					
STA.	628+50.00	TO	631+23.36	LT	361.95
STA.	632+54.30	TO	637+00.00	LT	538.24
STA.	628+50.00	TO	632+75.33	RT	511.94
STA.	634+78.63	TO	637+00.00	RT	308.05
TOTAL:					1721.00 SQ YD

50901720 BICYCLE RAILING

FOOT

LOCATION					QUANTITY
IL 40					
STA.	200+00.00	TO	STA.	204+76.67	478.00
TOTAL:					478.00 FOOT

60260400 INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

EACH

LOCATION		OFFSET (FT)	QUANTITY
IL 40			
STA.	624+08.52	0.00	1.00
STA.	627+08.50	0.00	1.00
TOTAL:			EACH

60261000 INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE

EACH

LOCATION		OFFSET (FT)	QUANTITY
IL 40			
STA.	624+08.52	0.00	1.00
STA.	627+08.50	0.00	1.00
TOTAL:			2 EACH

60610400 COMBINATION CURB AND GUTTER, TYPE M-6.24

FOOT

LOCATION					QUANTITY
IL 40					
STA.	623+45.86	TO	631+78.22	LT	832.76
STA.	633+27.71	TO	634+25.50	LT	97.79
STA.	637+72.05	TO	639+91.00	LT	218.95
STA.	623+46.08	TO	632+17.29	RT	871.21
STA.	633+46.20	TO	634+25.50	RT	79.30
STA.	637+72.05	TO	639+91.00	RT	218.95
TOTAL:					2319.00 FOOT

60618300 CONCRETE MEDIAN SURFACE, 4 INCH

SQ FT

LOCATION					QUANTITY
IL 40					
STA.	631+82.81	TO	STA.	632+12.70	251.52
STA.	633+20.07	TO	STA.	634+25.50	938.02
STA.	637+72.05	TO	STA.	639+91.00	3500.98
TOTAL:					4691.00 SQ FT

60623200 CONCRETE MEDIAN, TYPE SM-6.24

SQ FT

LOCATION					QUANTITY
IL 40					
STA.	623+35.85	TO	STA.	623+44.80	85.65
STA.	634+25.50	TO	STA.	636+80.10	2576.08
STA.	637+62.05	TO	STA.	637+72.05	86.00
STA.	639+91.00	TO	STA.	641+71.93	1848.13
TOTAL:					4596.00 SQ FT

63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS

FOOT

LOCATION					QUANTITY
IL 40					
STA.	630+20.00	TO	STA.	631+33.00	57.00
STA.	631+08.00	TO	STA.	632+98.00	94.10
STA.	632+40.00	TO	STA.	633+80.00	44.10
TOTAL:					196.00 FOOT

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2

EACH

LOCATION		QUANTITY
IL 40		
STA.	630+20.44	1.00
TOTAL:		1.00 EACH

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

EACH

LOCATION		QUANTITY
IL 40		
STA.	631+29.77	1
STA.	632+42.90	1
STA.	632+94.41	1
TOTAL:		3 EACH

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

EACH

LOCATION		QUANTITY
IL 40		
STA.	631+08.26	1
STA.	633+80.12	1
TOTAL:		2 EACH

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(815) 744-4200

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	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	21
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION				QUANTITY
	IL 40				
	STA.	632+09.92	TO	632+29.73	20.06
	STA.	632+29.73	TO	633+12.05	82.32
	STA.	632+06.88	TO	632+82.43	75.55
	STA.	632+82.43	TO	633+09.18	26.90
TOTAL:					205.00 FOOT

63500105 DELINEATORS

EACH	LOCATION			QUANTITY
	IL 40			
	STA.	632+02.38	RT	1.00
	STA.	633+36.03	LT	1.00
TOTAL:				2.00 EACH

63800920 GLARE SCREEN SYSTEM, TEMPORARY

EACH	LOCATION				QUANTITY
	IL 40				
STAGE 1	STA.	627+00.00	TO	629+00.00	202.25
STAGE 2	STA.	636+00.00	TO	638+50.00	198.50
TOTAL:					401.00 EACH

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION				QUANTITY
	IL 40				
	STA.	625+00.00	TO	641+71.93	2
TOTAL:					2.00 EACH

70300210 TEMPORARY PAVEMENT MARKINGS, LETTERS AND SYMBOLS

SQ FT	LOCATION		QUANTITY
	IL 40		
	STA.	640+33.00	15.60
	STA.	640+96.00	15.60
	STA.	641+59.00	15.60
TOTAL:			46.80 SQ FT

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	COLOR	QUANTITY
	IL 40		
	STAGE 1 NB	Yellow	1776.20
	STAGE 1 SB	Yellow	2581.70
	STAGE 1 NB	White	4747.00
	STAGE 1 SB	White	1608.10
	STAGE 2 NB	Yellow	4207.00
	STAGE 2 SB	Yellow	1760.70
	STAGE 2 NB	White	3007.40
	STAGE 2 SB	White	2887.20
TOTAL:			22577.00 FOOT

70300250 TEMPORARY PAVEMENT MARKING - LINE 8"

FOOT	LOCATION					QUANTITY
	IL 40					
	STA.	599+46.00	TO	STA.	600+73.00	173.40
	STA.	614+18.00	TO	STA.	615+43.00	174.40
TOTAL:						348.00 FOOT

70300280 TEMPORARY PAVEMENT MARKINGS - LINE 24"

FOOT	LOCATION		QUANTITY
	IL 40		
	STA.	614+18.00	16.00
	STA.	615+43.00	17.50
TOTAL:			34.00 FOOT

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION	QUANTITY
	IL 40	
	STAGE 1 NB	1685.90
	STAGE 1 SB	830.70
	STAGE 2 NB	2404.90
	STAGE 2 SB	175.10
TOTAL:		6471.00 SQ FT

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	QUANTITY
	IL 40	
	STAGE 1	2906.00
TOTAL:		2906.00 FOOT

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	QUANTITY
	IL 40	
	STAGE 2	2555.00
TOTAL:		2555.00 FOOT

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	QUANTITY
	IL 40	
	STAGE 1	2.00
	STAGE 2	2.00
TOTAL:		4.00 EACH

70600260 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

EACH	LOCATION		QUANTITY
	IL 40		
	634+37.00	LT	1.00
TOTAL:			1.00 EACH

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	QUANTITY
	IL 40	
	STAGE 2	2.00
TOTAL:		2.00 EACH

78001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

SQ FT	LOCATION		Color	RT/LT	QUANTITY
	IL 40				
	STA.	634+56.00	White	Turn	15.60
	STA.	635+66.00	White	Turn	15.60
	STA.	636+75.00	White	Turn	15.60
		TWO APPLICATIONS			46.80
TOTAL:					93.60 SQ FT

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	RT/LT	QUANTITY
	IL 40		
	MEDIAN	RT	1836.90
	MEDIAN	LT	1826.70
	EOP	RT	1862.80
	EOP	LT	1526.20
TOTAL:			7053.00 FOOT

78001130 PAINT PAVEMENT MARKING - LINE 6"

FOOT	LOCATION				COLOR	RT/LT	QUANTITY
	IL 40						
	STA.	597+00.00	TO	642+00.00	White	RT	1125.90
	STA.	621+50.00	TO	651+71.50	White	LT	751.2
TOTAL:							1878.00 FOOT

78001140 PAINT PAVEMENT MARKING - LINE 8"

FOOT	LOCATION				Color	RT/LT	QUANTITY
	IL 40						
	STA.	610+36.00	TO	613+43.00	White	Turn	308.00
	STA.	634+56.00	TO	636+80.00	White	Turn	225.00
	STA.	640+28.00	TO	641+64.00	White	Turn	137.00
TOTAL:							670.00 FOOT

78001180 PAINT PAVEMENT MARKING - LINE 24"

FOOT	LOCATION	QUANTITY
	IL 40	
	614+39.00	16.00
	614+94.00	16.00
TOTAL:		32.00 FOOT

78100100 RAISED REFLECTIVE PAVEMENT MARKING

EACH	LOCATION			RT/LT	QUANTITY
	IL 40				
	STA. 628+50.00	TO	STA. 637+00.00	RT	12.00
	STA. 628+50.00	TO	STA. 637+00.00	LT	12.00
	STA. 634+56.00	TO	STA. 636+80.00	TURN	12.00
TOTAL:					36.00 EACH

UPDATED 10/01/12

FILE NAME = S:\JOL\6300-6399\6346\025\Micros\Sht\026417-sht-schedule1.dgn

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USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	22
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

78100200 TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

EACH

LOCATION				QUANTITY
NB CROSSOVER				
STA.	0+00.00	TO	5+08.56	52.00
STA.	12+12.64	TO	17+56.61	56.00
SB CROSSOVER				
STA.	0+28.50	TO	5+43.32	52.00
STA.	12+84.90	TO	17+88.73	52.00
TOTAL:				212.00 EACH

78200410 GUARDRAIL MARKERS, TYPE A

EACH

LOCATION				QUANTITY
IL 40				
STA.	630+74.38	TO	631+30.02	2.00
STA.	632+42.90	TO	632+98.55	2.00
STA.	632+98.55	TO	633+35.05	2.00
STA.	632+02.33	TO	632+39.83	2.00
STA.	632+39.83	TO	632+95.48	2.00
STA.	634+78.63	TO	635+34.27	2.00
TOTAL:				12.00 EACH

78200520 BARRIER WALL MARKERS, TYPE B

EACH

LOCATION				QUANTITY
IL 40				
STA.	623+46.00	TO	641+31.00	156.00
TOTAL:				156.00 EACH

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH

LOCATION				QUANTITY
IL 40				
STA.	631+95.00			1
STA.	633+45.00			1
TOTAL:				2.00 EACH

78300100 PAVEMENT MARKING REMOVAL

SQ FT

LOCATION				COLOR	LT/RT	WIDTH	FOOT	QUANTITY
STA.	622+50.00	TO	628+50.00	WHITE	RT		599.75	199.92
STA.	623+20.00	TO	628+50.00	YELLOW		4	479.29	159.76
STA.	623+70.00	TO	628+50.00	YELLOW	RT	4	479.45	159.82
STA.	624+00.00	TO	628+50.00	WHITE	LT	4	450.24	150.08
STA.	637+00.00	TO	642+00.00	WHITE	RT	4	500	166.67
STA.	637+00.00	TO	643+82.00	WHITE	LT	4	681.97	227.32
STA.	638+02.28	TO	641+44.22	YELLOW	RT	4	342.62	114.21
STA.	637+93.27	TO	641+69.12	YELLOW	LT	4	375.88	125.29
STA.	597+00.00	TO	628+50.00	WHITE DASH	RT	6	3150	1575.00
STA.	621+50.00	TO	628+50.00	WHITE DASH	LT	6	700	350
STA.	637+00.00	TO	642+00.00	WHITE DASH	RT	6	500	250
STA.	637+00.00	TO	643+82.00	WHITE DASH	LT	6	682	341
								3820.00 SQ FT

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH

LOCATION				QUANTITY
IL 40				
STA.	628+50.00	TO	629+30.00	2.00
STA.	636+45.00	TO	637+00.00	4.00
TOTAL:				6.00 EACH

X4400110 TEMPORARY PAVEMENT REMOVAL

SQ YD

LOCATION		WIDTH (FT)		WIDTH (FT)	QUANTITY
IL 40					
STA.	623+35.00	16.00	628+50.00	16.00	915.56
	633+09.00	4.00	634+61.00	4.10	68.40
	637+62.00	16.00	638+50.00	16.00	156.44
	638+50.00	16.00	640+30.00	5.00	210.00
	640+30.00	5.00	641+72.00	5.00	78.89
TOTAL:					1430.00 SQ YD

X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

SQ YD

LOCATION				QUANTITY
IL 40				
STA.	628+50.00	TO	629+70.00	373.33
STA.	636+45.00	TO	637+00.00	409.60
TOTAL:				783.00

X4402020 CONCRETE MEDIAN SURFACE REMOVAL

SQ FT

LOCATION				QUANTITY
IL 40				
STA	623+38.50	TO	623+69.53	328.04
STA	631+91.88	TO	632+43.09	701.13
STA	632+72.35	TO	636+70.10	2456.01
STA	637+65.58	TO	641+69.67	3724.00
TOTAL:				7210.00 SQ FT

Z0004552 APPROACH SLAB REMOVAL

SQ YD

LOCATION				QUANTITY
IL 40				
STA.	632+06.00	TO	632+26.00	417
STA.	632+84.00	TO	633+04.00	417
TOTAL:				834.00 SQ YD

Z0004638 PAVEMENT BREAKING

SQ YD

LOCATION					QUANTITY
IL 40					
STA.	631+00.00	TO	631+80.00	LT	230.30
STA.	632+66.00	TO	634+65.00	LT	576.60
STA.	631+00.00	TO	632+60.00	RT	463.20
STA.	633+48.00	TO	634+65.00	RT	506.00
TOTAL:					1777.00 SQ YD

Z0062456 TEMPORARY PAVEMENT

SQ YD

LOCATION		WIDTH (FT)		WIDTH (FT)	QUANTITY
IL 40					
STA.	623+35.00	16.00	628+50.00	16.00	915.56
	633+09.00	4.00	634+61.00	4.10	68.40
	637+62.00	16.00	638+50.00	16.00	156.44
	638+50.00	16.00	640+30.00	5.00	210.00
	640+30.00	5.00	641+72.00	5.00	78.89
TOTAL:					1430.00 SQ YD

FILE NAME = S:\JOL\6300-6399\6346\025\Micros\Sht\0264C17-sht-schedule1.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 5 OF 5 SHEETS | STA. | TO STA.

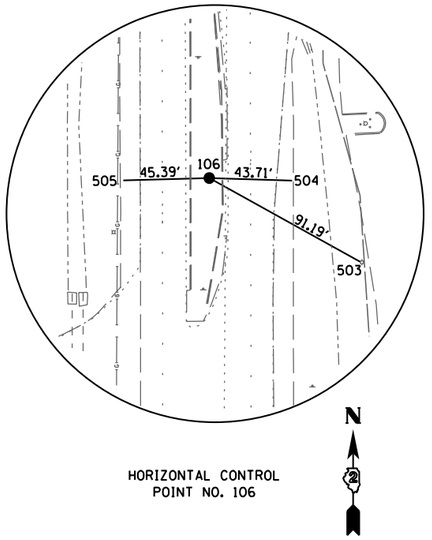
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	23
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

SURVEY WORK POINTS

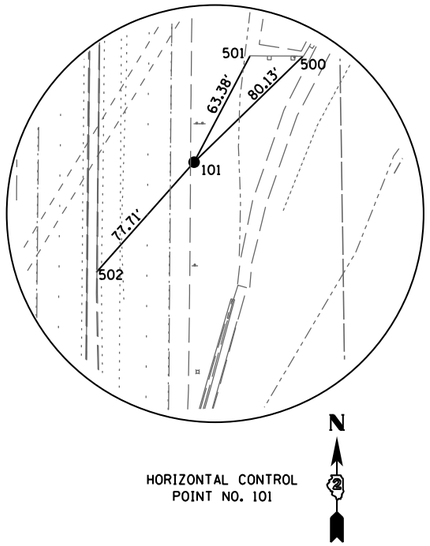
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	1855066.4220	2426833.2670	643.2040	IL40	635+25.09	50.8464' RT	SURVEY WORK POINT PIN
102	1854430.2110	2426780.2300	644.6310	IL40	628+88.58	1.5602' RT	SURVEY WORK POINT PIN
103	1854642.7170	2426637.7540	637.4180	IL40	631+00.24	142.1659' LT	SURVEY WORK POINT PIN
104	1854384.7790	2426488.4160	636.4549	IL40	628+41.43	289.981' LT	SURVEY WORK POINT PIN
105	1854056.1960	2426300.0480	637.2744	IL40	625+15.01	476.4527' LT	SURVEY WORK POINT PIN
106	1855850.8470	2426790.3950	638.6585	IL40	643+09.25	3.3517' RT	SHINER
107	1853440.2980	2426777.9190	647.8638	IL40	618+98.65	0.8271' RT	SURVEY WORK POINT PIN
108	1854740.8690	2426738.1160	634.4180	IL40	631+98.98	42.3841' LT	SURVEY WORK POINT PIN
109	1855231.1850	2426974.5620	636.8169	IL40	636+90.68	191.1678' RT	SURVEY WORK POINT PIN
110	1854725.7860	2426920.8020	637.7763	IL40	631+84.98	140.3876' RT	SURVEY WORK POINT NAIL
111	1854902.3230	2427113.5580	637.0943	IL40	633+62.65	332.0998' RT	SURVEY WORK POINT NAIL
112	1854318.1040	2426612.7680	644.3843	IL40	627+75.49	165.2381' LT	SURVEY WORK POINT NAIL
113	1854327.3310	2426731.6440	643.0356	IL40	627+85.41	46.4186' LT	SURVEY WORK POINT NAIL
114	1854334.0550	2426458.7010	636.4728	IL40	627+90.53	319.3965' LT	SURVEY WORK POINT NAIL
115	1854945.6590	2426651.5630	636.7692	IL40	634+03.26	130.1426' LT	SURVEY WORK POINT NAIL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1855066.4220	2426833.2670	643.2040	IL40	635+25.09	50.8464' RT	SURVEY WORK POINT PIN
2	1854430.2110	2426780.2300	644.6310	IL40	628+88.58	1.5602' RT	SURVEY WORK POINT PIN
3	1851396.7058	2426779.0528	653.9021	IL40	598+55.06	0.0000'	POT
4	1856072.6304	2426788.3505	.0000	IL40	645+31.02	0.0000'	POT
5	1854061.4001	2426776.4959	.0000	IL40	625+19.75	0.0000'	POT
6	1854796.0349	2426780.8260	.0000	IL40	632+54.40	0.0000'	POT



HORIZONTAL CONTROL
POINT NO. 106



HORIZONTAL CONTROL
POINT NO. 101

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL40	635+81.33	107.8969' RT	SHINER
501	IL40	635+81.34	80.0254' RT	SHINER
502	IL40	634+66.69	0.4352' LT	SHINER
503	IL40	642+65.51	83.3619' RT	SHINER
504	IL40	643+08.17	47.0508' RT	SHINER
505	IL40	643+07.78	42.0134' LT	SHINER
506	IL40	628+89.44	44.0277' LT	SHINER
507	IL40	628+88.37	46.0752' RT	SHINER
508	IL40	628+39.34	45.6412' RT	SHINER
509	IL40	631+25.63	132.8474' LT	SHINER
510	IL40	631+15.56	196.1661' LT	SHINER
511	IL40	630+29.88	187.3699' LT	SHINER
512	IL40	631+05.52	367.2239' LT	POWER POLE
513	IL40	619+04.92	97.8599' LT	SHINER
514	IL40	618+99.46	51.6971' LT	SHINER
515	IL40	618+98.12	44.9796' RT	SHINER

VERTICAL CONTROL - BENCHMARKS

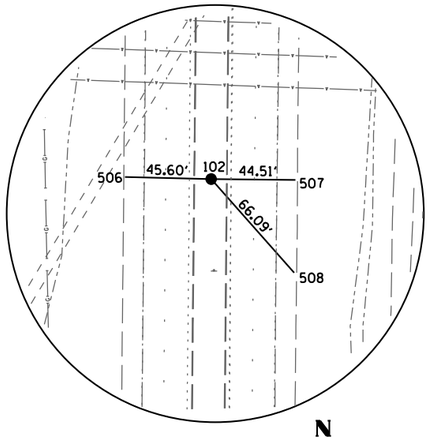
POINT	NORTH	EAST	ELEVATION	STATION	OFFSET	DESCRIPTION
401	1854748.2300	2426736.3680	644.9560	632+06.35	44.18' LT	VERTICAL CONTROL STATION
402	1852177.5740	2426732.3840	669.5630	606+35.62	45.86' LT	VERTICAL CONTROL STATION

Chain IL40 contains:
3 5 4

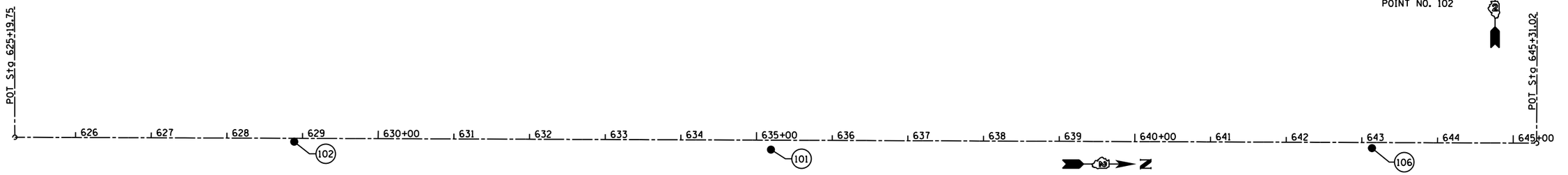
Beginning chain IL40 description

Point 3	N	1,851,396.7058 E	2,426,779.0528 Sta	598+55.0574
Course from 3 to 5	N 0 ° 03' 17.91" W	Dist 2,664.6955		
Point 5	N	1,854,061.4001 E	2,426,776.4959 Sta	625+19.75
Course from 5 to 4	N 0 ° 20' 15.74" E	Dist 2,011.2653		
Point 4	N	1,856,072.6304 E	2,426,788.3505 Sta	645+31.0178

Ending chain IL40 description



HORIZONTAL CONTROL
POINT NO. 102



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

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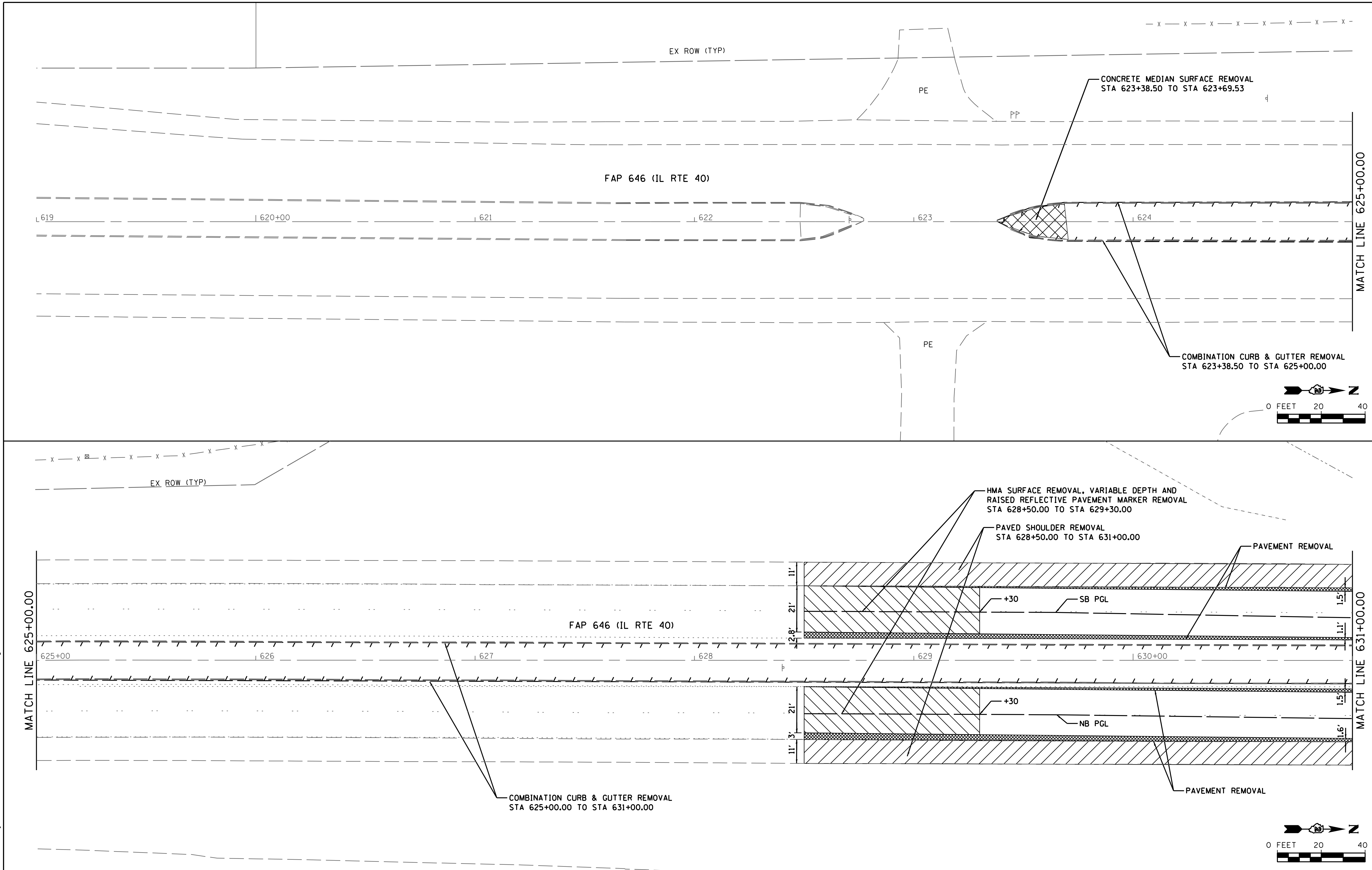
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL CONTROL

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	24
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	25
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

PAVED SHOULDER REMOVAL
STA 631+00.00 TO STA 631+60.40

PAVEMENT BREAKING
STA 631+00.00 TO STA 631+80.00

REMOVAL OF EXISTING BOAT RUB RAIL AND POSTS SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES

CONCRETE MEDIAN SURFACE REMOVAL
STA 631+91.88 TO STA 632+17.36

GUARDRAIL REMOVAL
STA 632+06.88 TO STA 633+09.18

PAVED SHOULDER REMOVAL
STA 632+16.83 TO STA 637+00.00

PAVEMENT BREAKING
STA 632+66.00 TO STA 634+65.00

COMBINATION CURB AND GUTTER REMOVAL
AND CONCRETE MEDIAN SURFACE REMOVAL
STA 632+72.35 TO STA 636+70.10 LT
STA 632+97.17 TO STA 636+70.10 RT

MATCH LINE 631+00.00

MATCH LINE 637+00.00

FAP 646 (IL RTE 40)

SB PGL

NB PGL

+51.88 +07.91 +68.93 +56.17 +25.75 +42.66 +02.96 +89.28 +14.65 +72.35 +91.87 +31.32 +97.17 +12.96 +43.09 +79.78 +92.93 +49.44 +68.42 63.19 +11.91

10' 10' 26' 16' 26' 26' 36' 36' 6' 10' 10' 20'

631 632 633 634 635 636 637 638 639 640 641 642

PAVEMENT BREAKING
STA 631+00.00 TO STA 632+60.00

COMBINATION CURB & GUTTER REMOVAL
STA 631+00.00 TO STA 632+43.09 RT
STA 631+00.00 TO STA 632+14.65 LT

GUARDRAIL REMOVAL
STA 632+09.92 TO STA 633+12.05

PAVED SHOULDER REMOVAL
STA 631+00.00 TO STA 633+02.43

HENNEPIN CANAL FEEDER

REMOVAL OF EXISTING BOAT RUB RAIL AND POSTS SHALL BE
INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES

PAVED SHOULDER REMOVAL
STA 633+57.68 TO STA 637+00.00

PAVEMENT BREAKING
STA 633+48.00 TO STA 634+65.00

HMA SURFACE REMOVAL, VARIABLE DEPTH AND
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
STA 636+45.00 TO STA 637+00.00

0 FEET 20 40

CE

COMBINATION CURB AND GUTTER REMOVAL
AND CONCRETE MEDIAN SURFACE REMOVAL
STA 637+65.58 TO STA 641+69.67

MATCH LINE 637+00.00

FAP 646 (IL RTE 40)

20'

10'

637 638 639 640 641 642

0 FEET 20 40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	26
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

EX ROW (TYP)

EX 18" PIPE CULVERT

EX DR DITCH (TYP)

PE

PP

* COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.24
STA 623+45.86 TO STA 625+00.00

PRE-STAGE INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID RIM ELEV=642.49
STAGE 3 INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE RIM ELEV=642.28

CONCRETE MEDIAN, TYPE SM-6.24
STA 623+35.80 TO STA 623+45.86

FAP 646 (IL RTE 40)

IMPROVEMENT BEGINS
STA 623+35.80

TOPSOIL FURNISH AND PLACE, 4"

MATCH LINE STA. 625+00.00

10' 33' 18' 26' 10'

11' 24' 24' 11'

619 620+00 621 622 623 624

PE

EX 18" PIPE CULVERT

EX DR DITCH (TYP)

N

5 VERT SCALE 0

0 20 HORIZ SCALE
SCALE IN FEET

*NOTE:
1. CONCRETE MEDIAN, TYPE SM-6.24 AND COMBINATION CONCRETE CURB & GUTTER TYPE M-6.24 SHALL MATCH THE EXISTING EDGE OF PAVEMENT.

660 650 640 630 620

EX FAP 646 (IL RTE 40) ℄ PROFILE

EXISTING IL RTE 40 ℄ ELEVATION

643.28 643.15 642.61 642.72 642.46 642.58 642.74

622+00 622+50 623+00 623+50 624+00 624+50 625+00

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PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
FAP ROUTE 646 (IL 40)

SCALE: AS SHOWN | SHEET 1 OF 4 SHEETS | STA. 619+00 TO STA. 625+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	27
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

JOHN H. DOTY
AGRICULTURAL

EX ROW (TYP)

EX DR DITCH (TYP)

*COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.24

PRE-STAGE INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID RIM ELEV=643.76
STAGE 3 INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE RIM ELEV=643.62

MATCH LINE STA. 625+00.00

FAP 646 (IL RTE 40)

TOPSOIL FURNISH AND PLACE, 4"

PROJECT BEGINS STA 628+50.00

628+60.00 43.83' LT
628+50.00 44.74' LT
628+50.00 33.93' LT
628+50.00 22.33' LT
628+50.00 9.93' LT

628+50.00 12.07' RT
628+50.00 34.34' RT
628+50.00 36.08' RT
628+49.89 47.04' RT
628+60.00 46.18' RT

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (STA. 629+30 TO STA. 631+00)
LEVELING BINDER (MACHINE METHOD), N70 (STA. 628+50 TO STA. 629+50)
BITUMINOUS MATERIALS (PRIME COAT)

EX 6'X4' BOX CULVERT

LIMITS OF CONSTRUCTION (TYP.)

HOT-MIX ASPHALT SHLD, 6½" WITH
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1½"

TRAFFIC BARRIER TERMINAL, TYPE 2
STA. 630+20.44

SOUTHBOUND PGL

629+64.71 21.84' LT
629+99.42 42.45' LT
630+17.45 45.27' LT
631+00.00 31.45' LT
631+00.00 7.48' LT

629+65.18 24.80' RT
631+00.00 14.55' RT

NORTHBOUND PGL

EX 8'X4' BOX CULVERT

630+72.64 48.28' RT
631+00.00 38.55' RT
630+98.26 52.55' RT

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1-1/2"
HOT-MIX ASPHALT SHOULDER, 6-1/2"
AGGREGATE SUBGRADE IMPROVEMENT, 12"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 10½"
BITUMINOUS MATERIALS (PRIME COAT)
AGGREGATE SUBGRADE IMPROVEMENT, 12"
STA. 628+00.00 TO STA. 631+00.00

LIMITS OF CONSTRUCTION (TYP)

MATCH LINE STA. 631+00.00

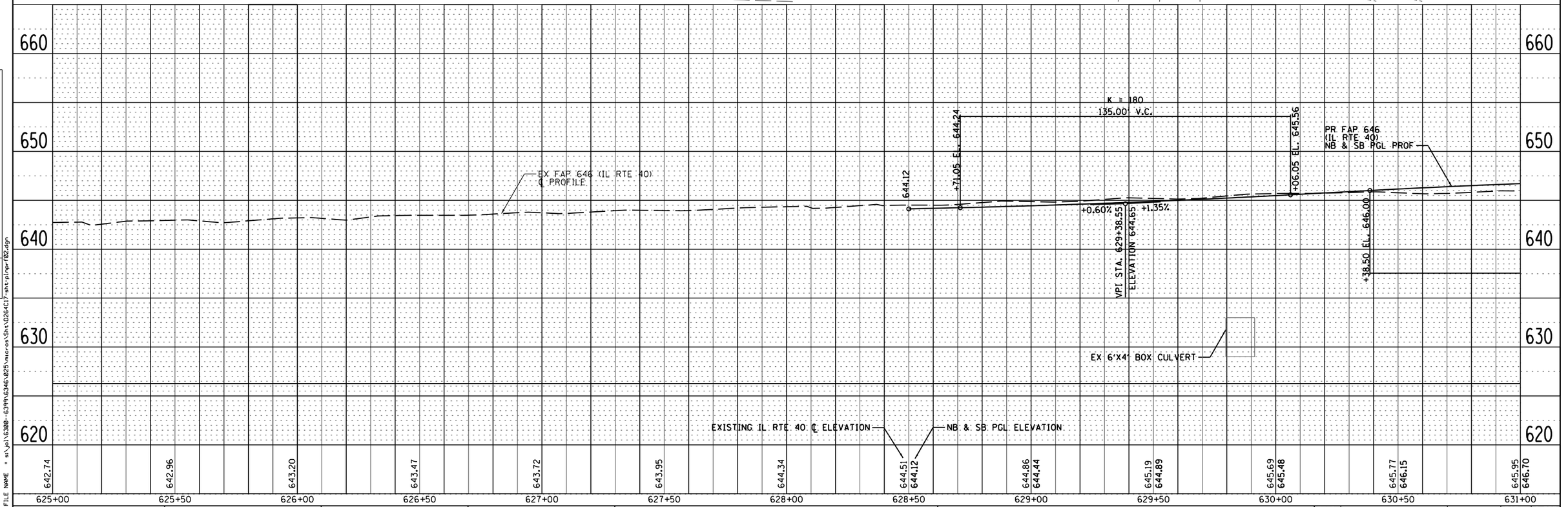
*NOTE:
1. COMBINATION CONCRETE CURB & GUTTER TYPE M-6.24 SHALL MATCH THE EXISTING EDGE OF PAVEMENT FROM STA 625+00.00 TO STA 628+50.00.

COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.24

EX DR DITCH (TYP)

FRITZ BRANT
AGRICULTURAL

5 VERT SCALE 0
0 20 HORIZ SCALE
SCALE IN FEET



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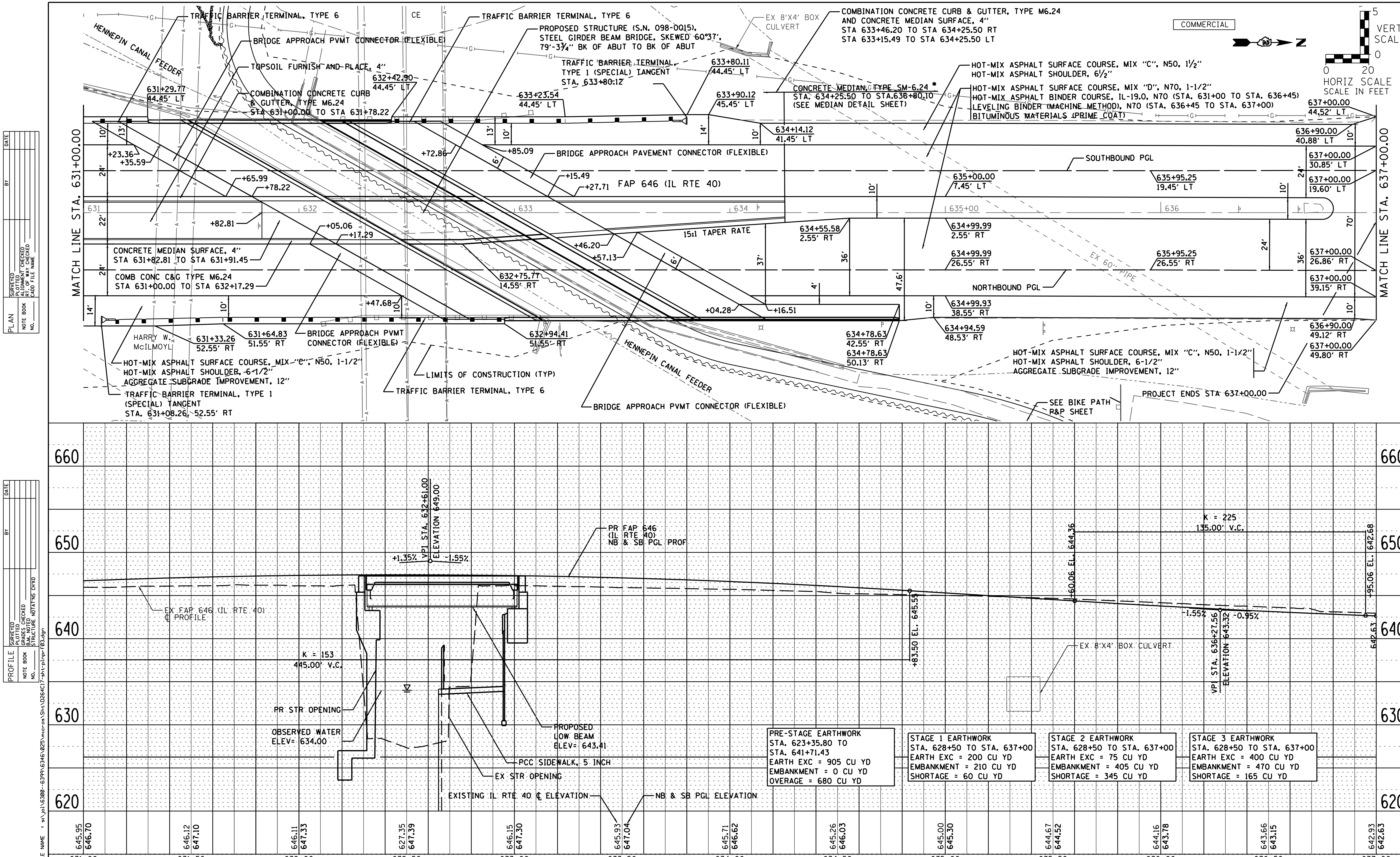
STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
FAP ROUTE 646 (IL 40)

SCALE: AS SHOWN | SHEET 2 OF 4 SHEETS | STA. 625+00 TO STA. 631+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	28
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

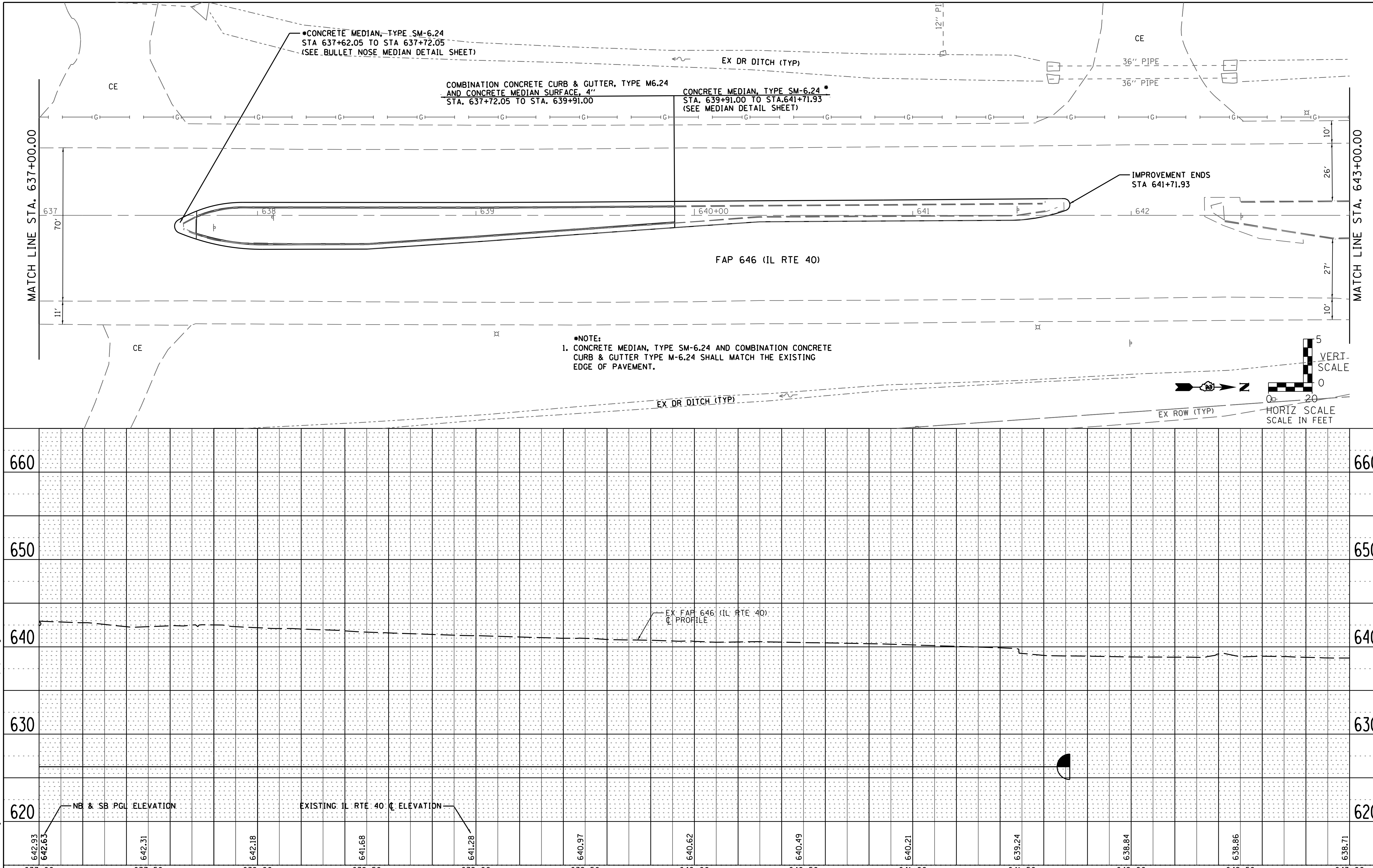
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
FAP ROUTE 646 (IL 40)

SCALE: AS SHOWN | SHEET 3 OF 4 SHEETS | STA. 631+00 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	29
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



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PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED — NOTE BOOK NO. — BY — DATE

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		DRAWN - BJF	REVISED -	
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	PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

PLAN AND PROFILE
FAP ROUTE 646 (IL 40)

SCALE: AS SHOWN | SHEET 4 OF 4 SHEETS | STA. 637+00 TO STA. 643+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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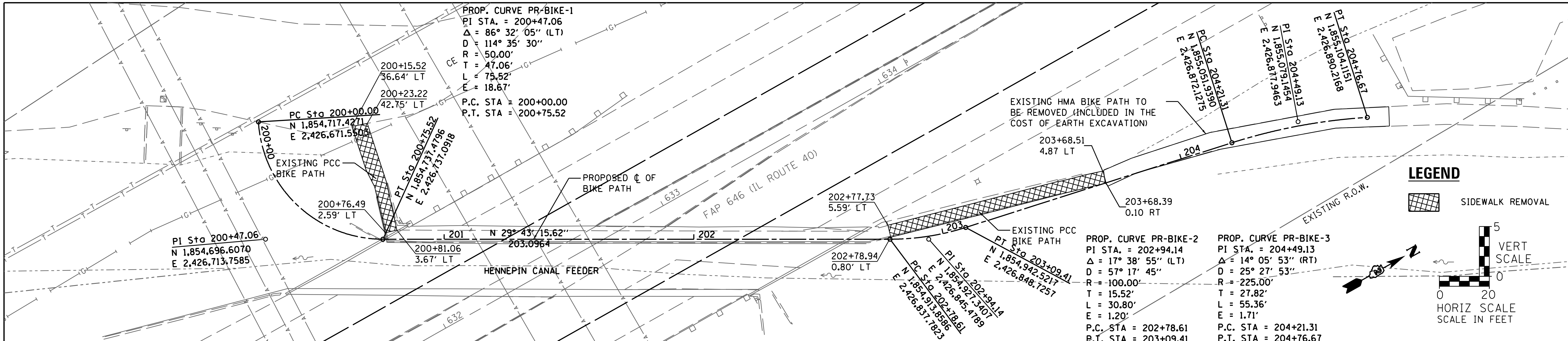
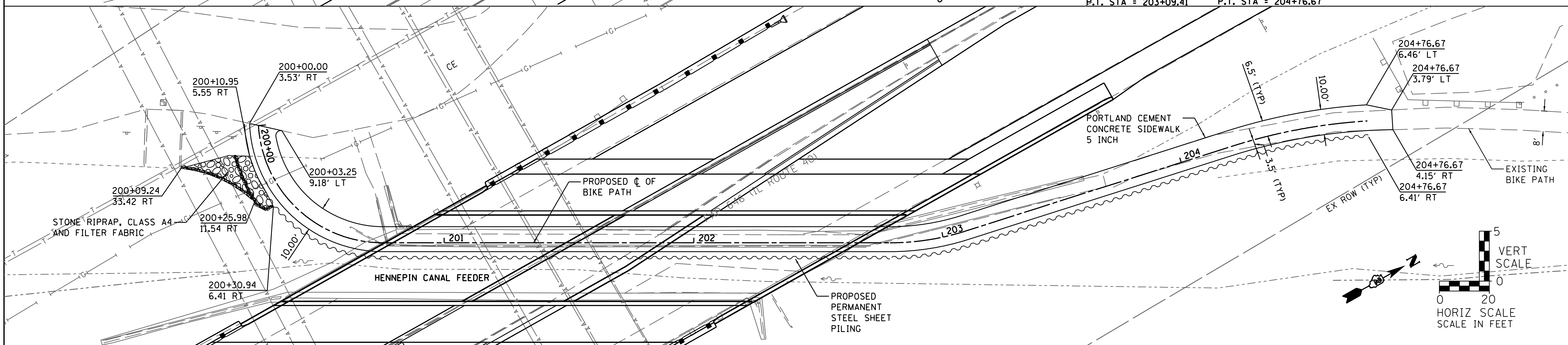
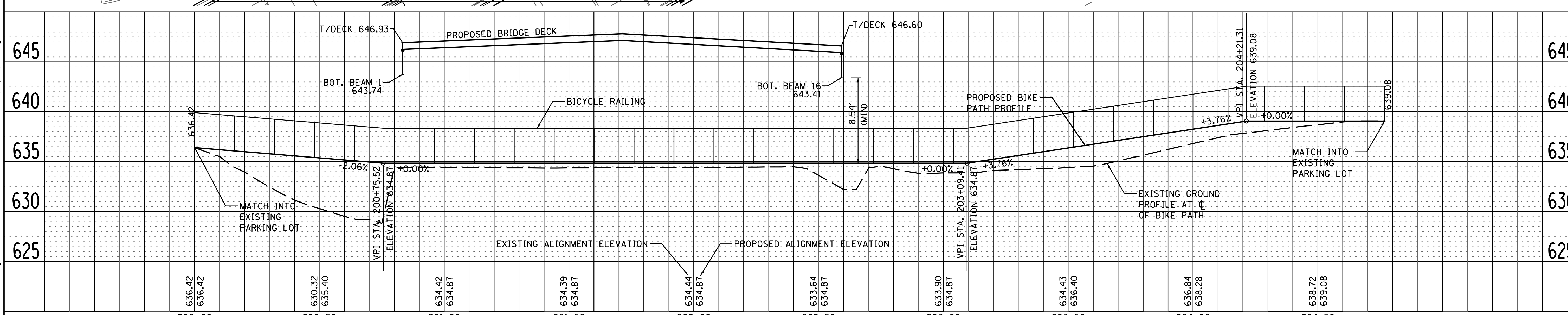
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		







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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
BIKE PATH

SCALE: AS SHOWN | SHEET 1 OF 1 SHEETS | STA. 200+00 TO STA. 204+77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	31
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGING DESCRIPTIONS:

PRESTAGE:
THE MEDIAN TO THE SOUTH OF THE CONSTRUCTION LIMITS AND THE MEDIAN TO THE NORTH OF THE CONSTRUCTION LIMITS WILL BE USED FOR A TEMPORARY CROSSOVER. SONSTRUCT USING TRAFFIC CONTROL AND PROTECTION STANDARD 701601 AND TRAFFIC CONTROL AT TRANSITIONS.

TEMPORARY PAVEMENT WILL BE INSTALLED IN LOCATIONS SHOWN IN THE STAGE 1 SHEETS FROM STA. 623+35 TO STA. 629+00, STA. 633+09.18 TO STA. 634+60.21, AND STA. 637+66 TO STA. 641+70.

INSTALL TEMPORARY LIGHTING SYSTEMS FOR CROSSOVERS ON NORTH AND SOUTH SIDE OF THE BRIDGE.

INLETS IN THE MEDIAN ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID.

STAGE 1:
NORTHBOUND LANES OF THE BRIDGE AND ROADWAY WILL BE RECONSTRUCTED. USING TRAFFIC CONTROL AND PROTECTION STANDARD 701416 AND TRAFFIC CONTROL AT TRANSITIONS.

STAGE 2:
SOUTHBOUND LANES OF THE BRIDGE AND ROADWAY WILL BE RECONSTRUCTED. USING TRAFFIC CONTROL AND PROTECTION STANDARD 701416 AND TRAFFIC CONTROL AT TRANSITIONS.

STAGE 3:
REMOVE ALL REMAINING TEMPORARY PAVEMENT AND INSTALL MEDIAN IMPROVEMENTS.

PROPOSED CURB AND GUTTER AND TOPSOIL FOR LANDSCAPED MEDIAN COMPLETED USING TRAFFIC CONTROL AND PROTECTION STANDARD 701601 AND TRAFFIC CONTROL AT TRANSITIONS.

INLETS IN THE MEDIAN ADJUSTED WITH A NEW TYPE 8 GRATE.

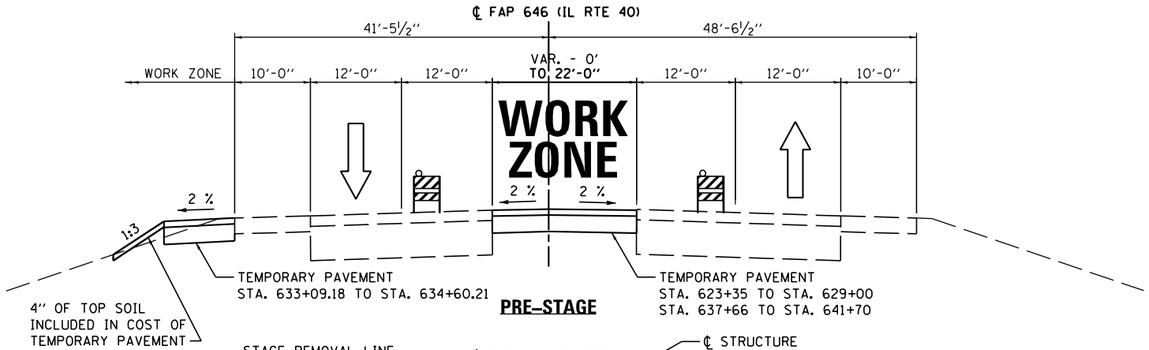
STAGING NOTES:

IL 40 WILL REMAIN OPEN TO TWO-WAY TRAFFIC AT ALL TIMES. THIS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS, THE MAINTENANCE OF TRAFFIC PLANS AND SPECIAL PROVISIONS.

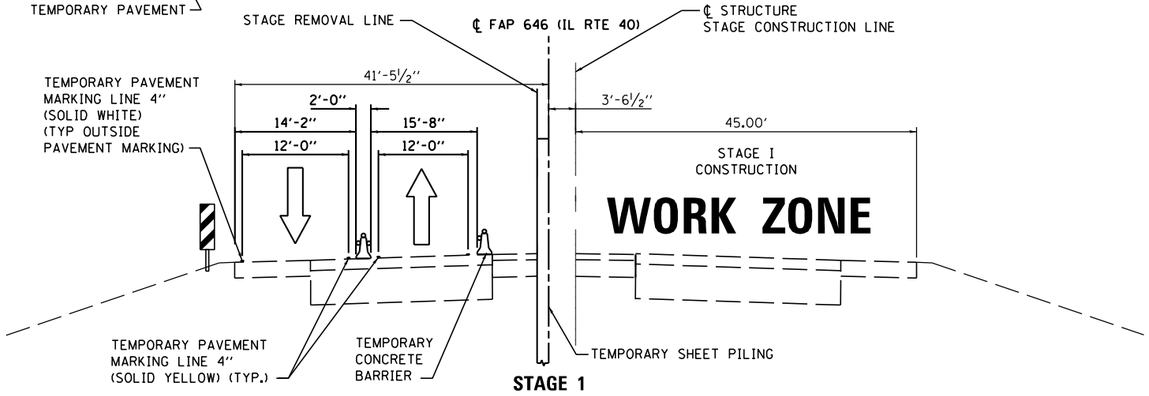
STAGE 1&2 EARTHWORK QUANTITIES HAVE BEEN COMPUTED UP TO THE BACK OF THE PROPOSED CURB BETWEEN STATIONS 628+50 TO 637+00. NECESSARY EARTHWORK DURING THESE STAGES PAST THESE POINTS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE VARIOUS EARTHWORK PAY ITEMS FOR THE PROJECT. EARTHWORK NECESSARY FOR CONSTRUCTION OF INSIDE MEDIANS HAVE BEEN INCLUDED IN STAGE 3.

FURNISHING BARRICADES, SPECIAL SIGNS AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE MAINTENANCE OF TRAFFIC PLANS WILL NOT BE MEASURED FOR PAYMENT. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS. TEMPORARY PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL WILL BE PAID FOR ACCORDING TO THE STANDARD SPECIFICATIONS.

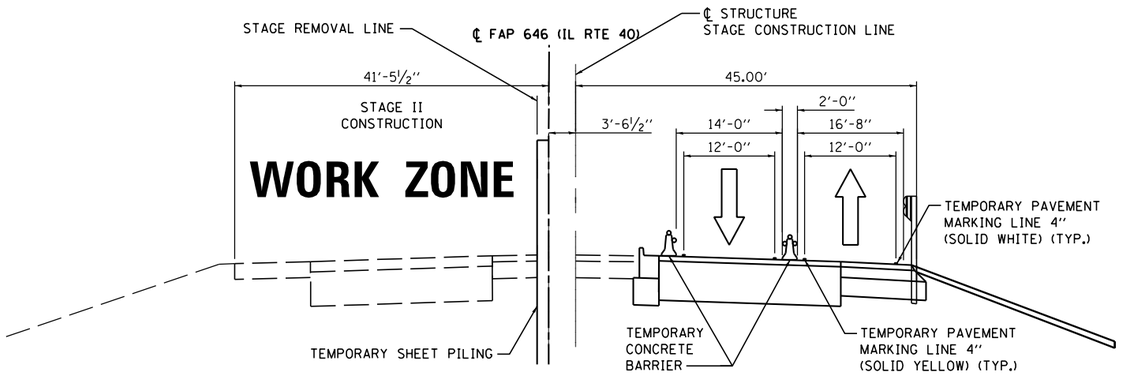
DROP-OFFS 12" TO 18" FROM THE EDGE OF PAVEMENT ARE ALLOWED FOR A MAXIMUM OF 48 HOURS WITHOUT PROTECTION WITH TEMPORARY CONCRETE BARRIER. DROP-OFFS 12" TO 18" LONGER THAN 48 HOURS AND DROP-OFFS OVER 18" MUST BE PROTECTED WITH TEMPORARY CONCRETE BARRIER.



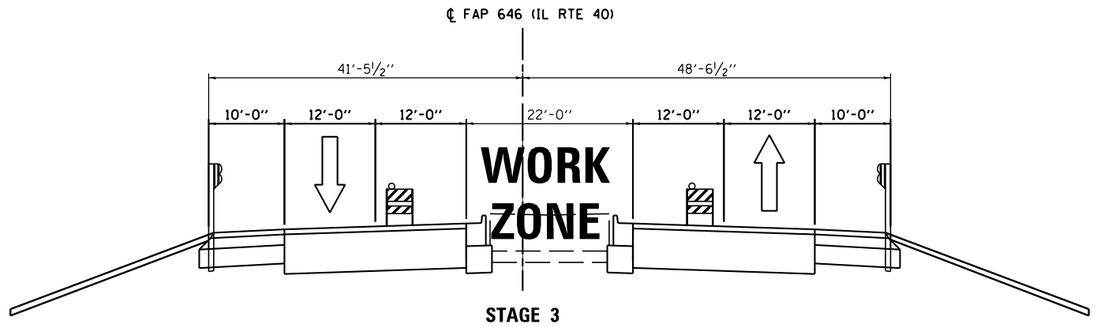
PRE-STAGE



STAGE 1



STAGE 2



STAGE 3

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PLOT SCALE = 100.0000 ' / in.	CHECKED - MAG	REVISED -	
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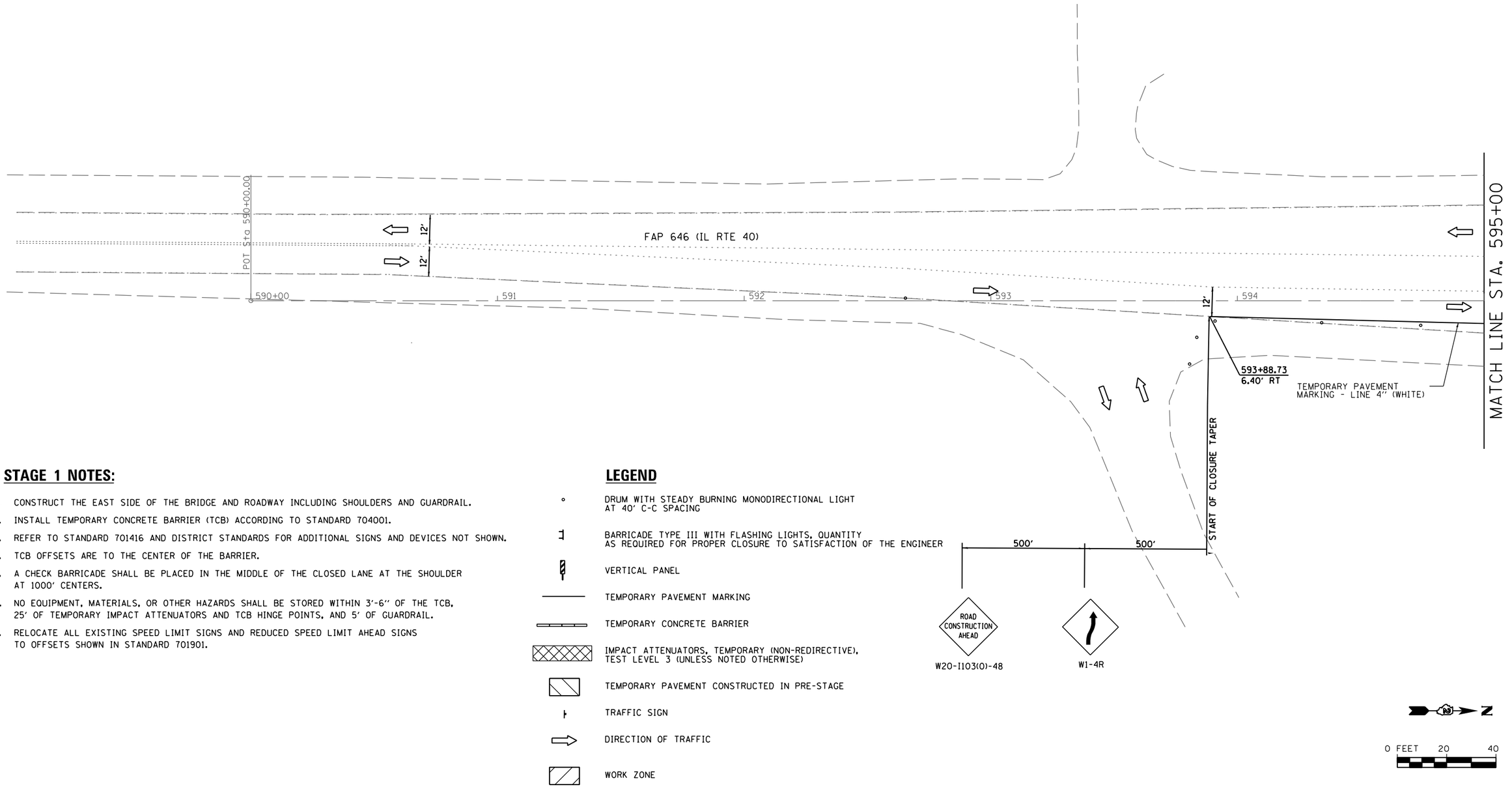
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
NOTES AND TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	32
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 1



STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

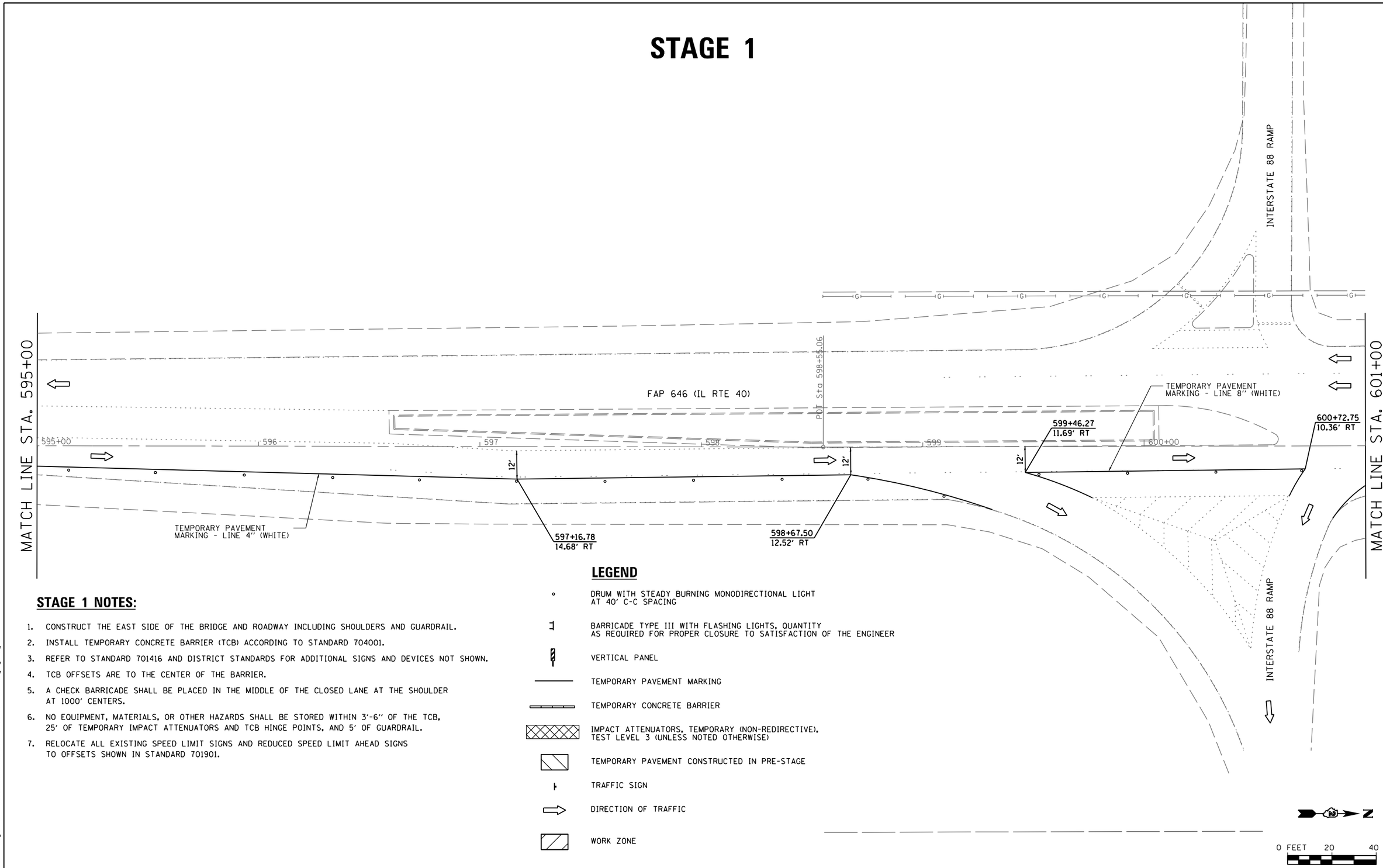
MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 1 OF 22 SHEETS | STA. 590+00 TO STA. 595+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	33
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1



STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
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6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

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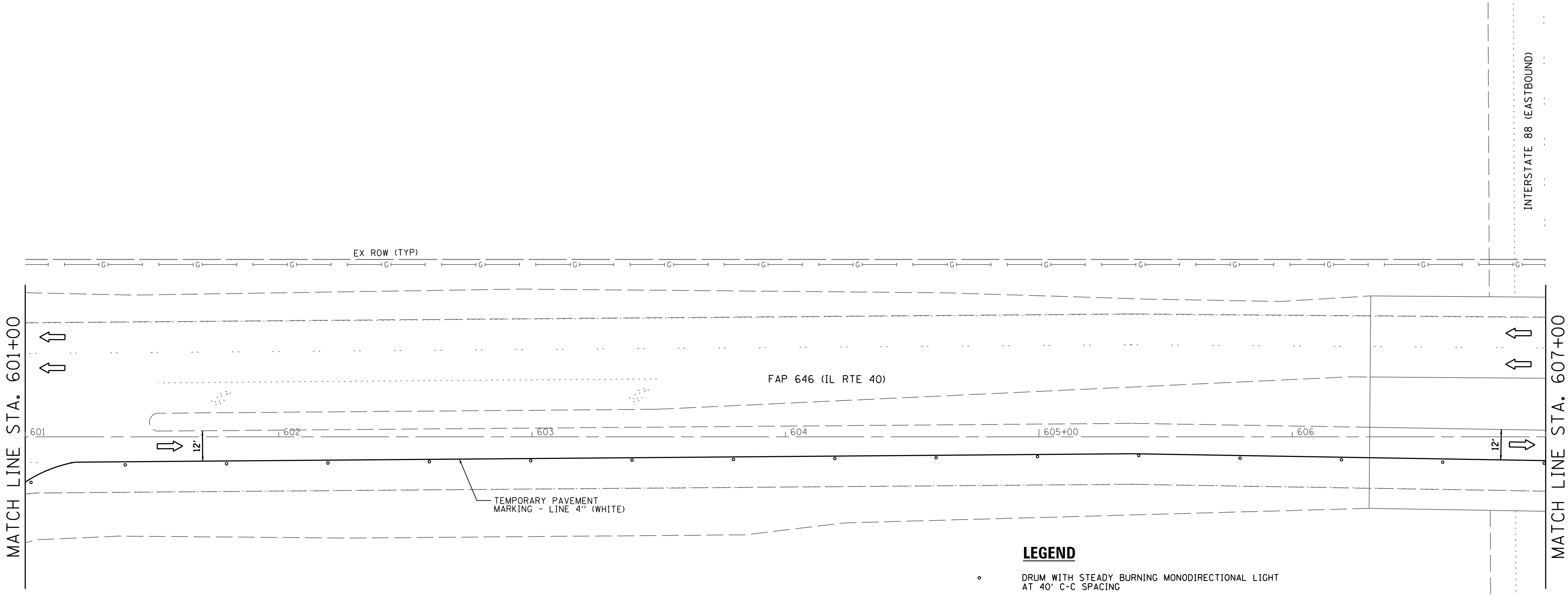
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 2 OF 22 SHEETS | STA. 595+00 | TO STA. 601+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	34
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 1



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

EX ROW (TYP)

N

0 FEET 20 40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

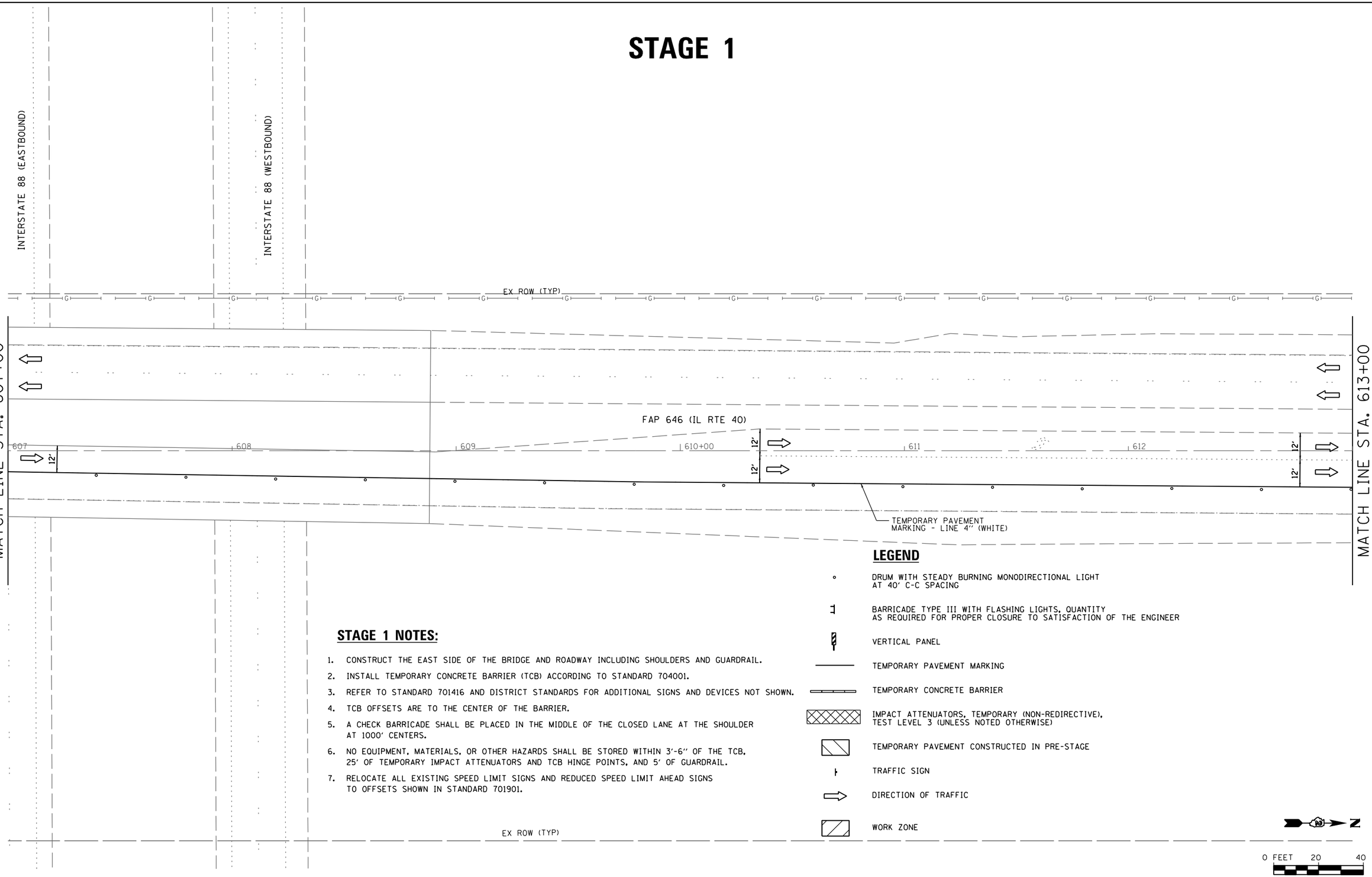
MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 3 OF 22 SHEETS | STA. 601+00 TO STA. 607+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	35
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1



STAGE 1 NOTES:

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LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

0 FEET 20 40

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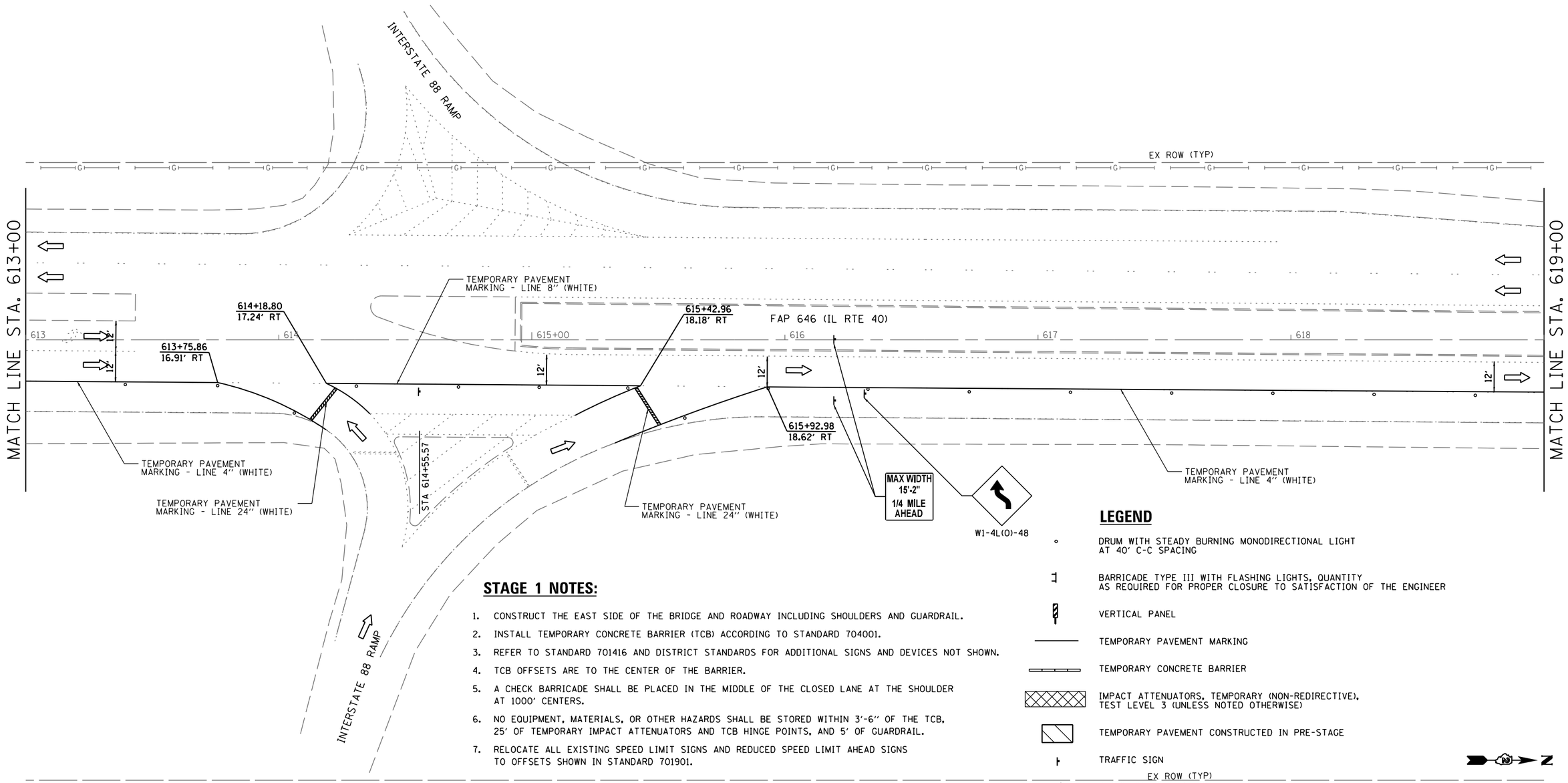
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 4 OF 22 SHEETS | STA. 607+00 | TO STA. 613+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	36
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 1



STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
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7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

0 FEET 20 40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

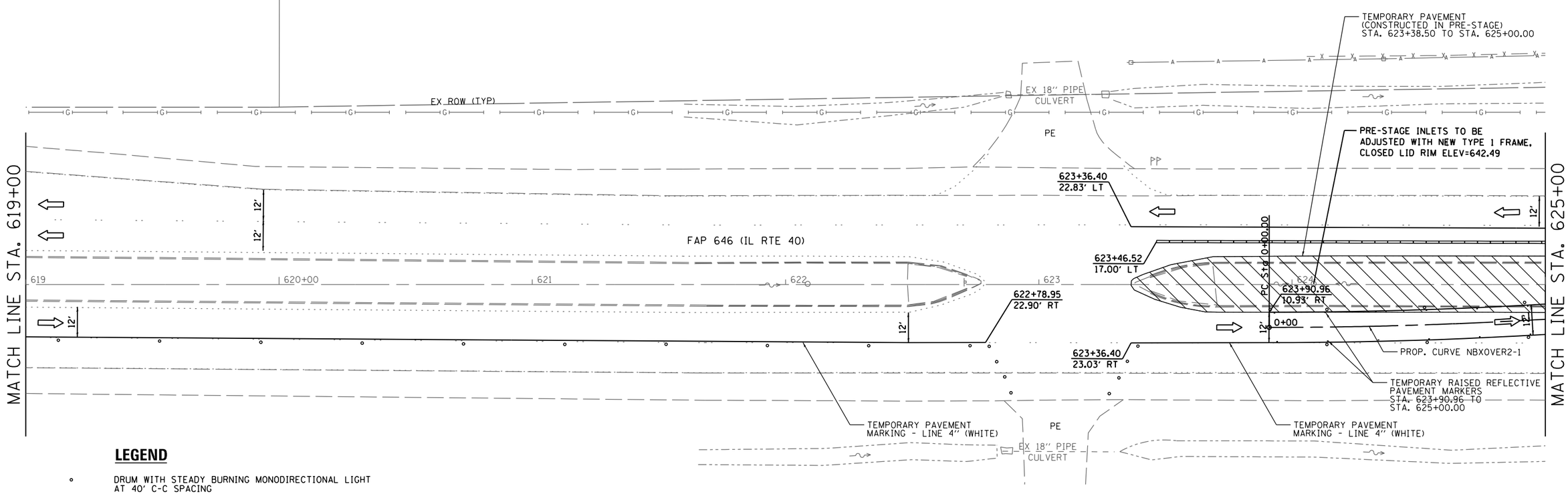
SCALE: 1" = 20' | SHEET 5 OF 22 SHEETS | STA. 613+00 | TO STA. 619+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	37
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1

PROP. CURVE NBXOVER2-1
PI STA. = 1+24.34
Δ = 7° 45′ 10″ (LT)
D = 3° 07′ 21″
R = 1,835.00′
T = 124.34′
L = 248.30′
E = 4.21′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 0+00.00
P.T. STA = 2+48.30



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40′ C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

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7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

N

0 FEET 20 40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

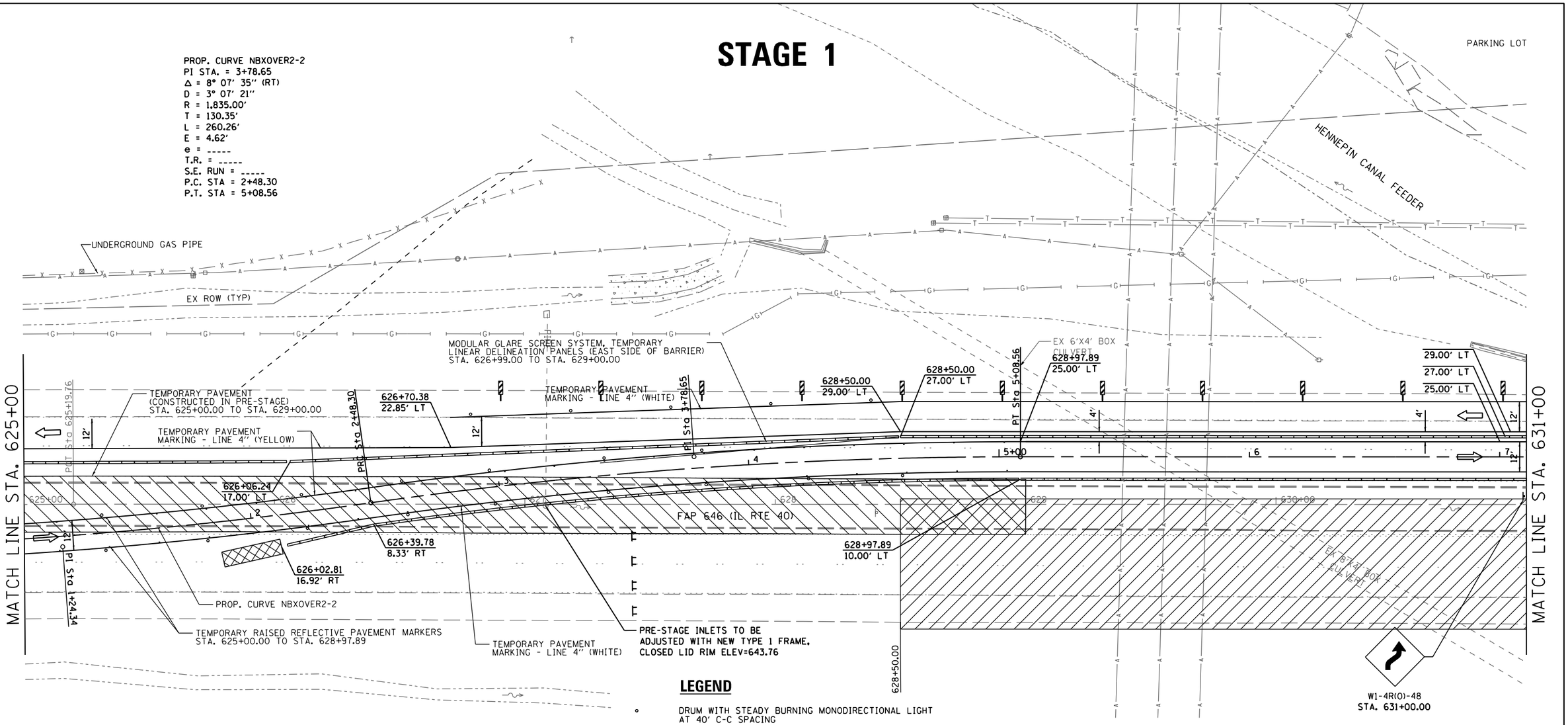
MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1″ = 20′ | SHEET 6 OF 22 SHEETS | STA. 619+00 TO STA. 625+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	38
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 1

PROP. CURVE NBXOVER2-2
PI STA. = 3+78.65
Δ = 8° 07′ 35″ (RT)
D = 3° 07′ 21″
R = 1,835.00′
T = 130.35′
L = 260.26′
E = 4.62′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 2+48.30
P.T. STA = 5+08.56



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40′ C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 1 NOTES:

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7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

0 FEET 20 40

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PLOT SCALE = 40.0000 ′ / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

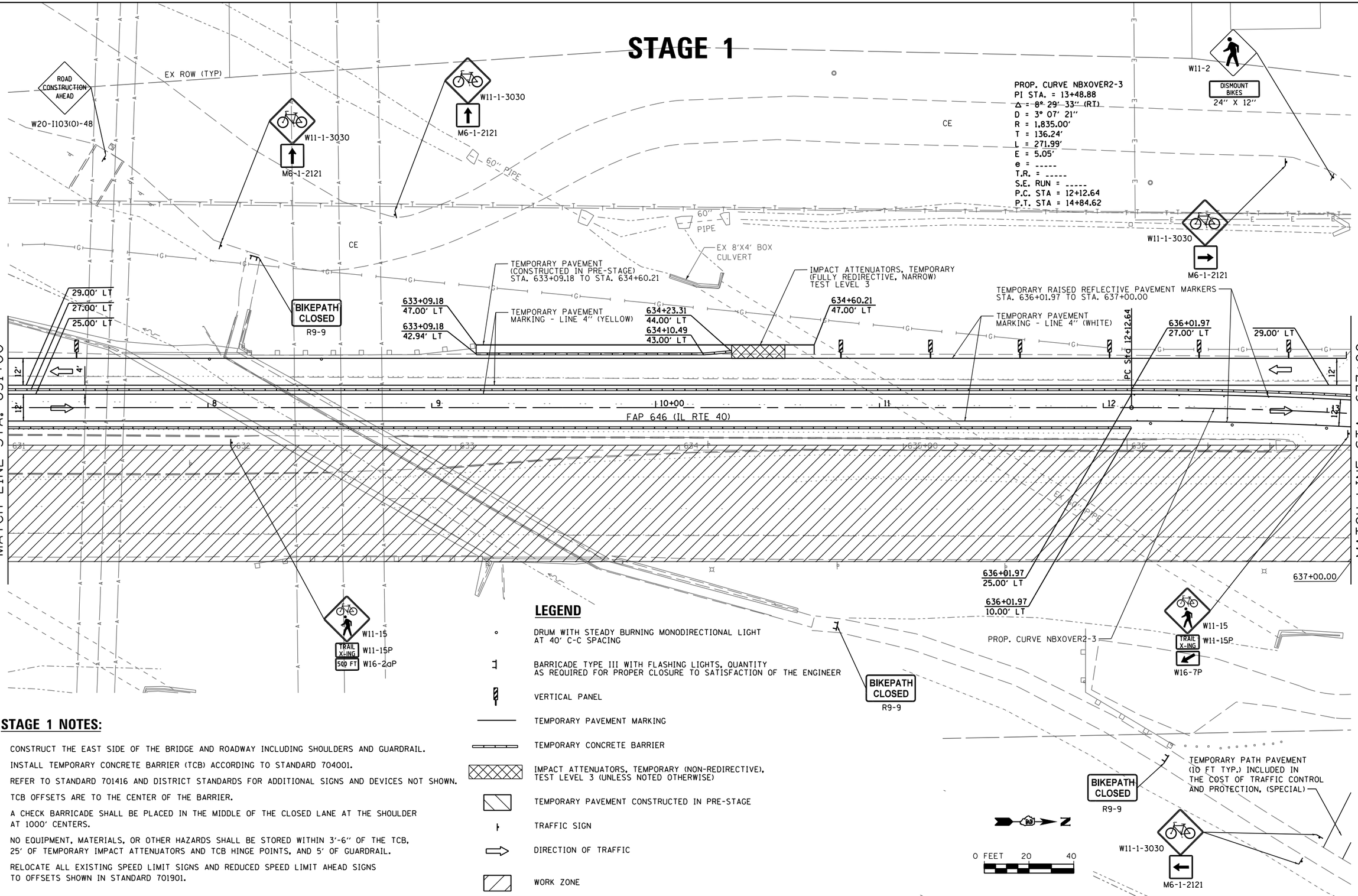
MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1″ = 20′ | SHEET 7 OF 22 SHEETS | STA. 625+00 TO STA. 631+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	39
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

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	DRAWN - DJW	REVISED -	
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PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

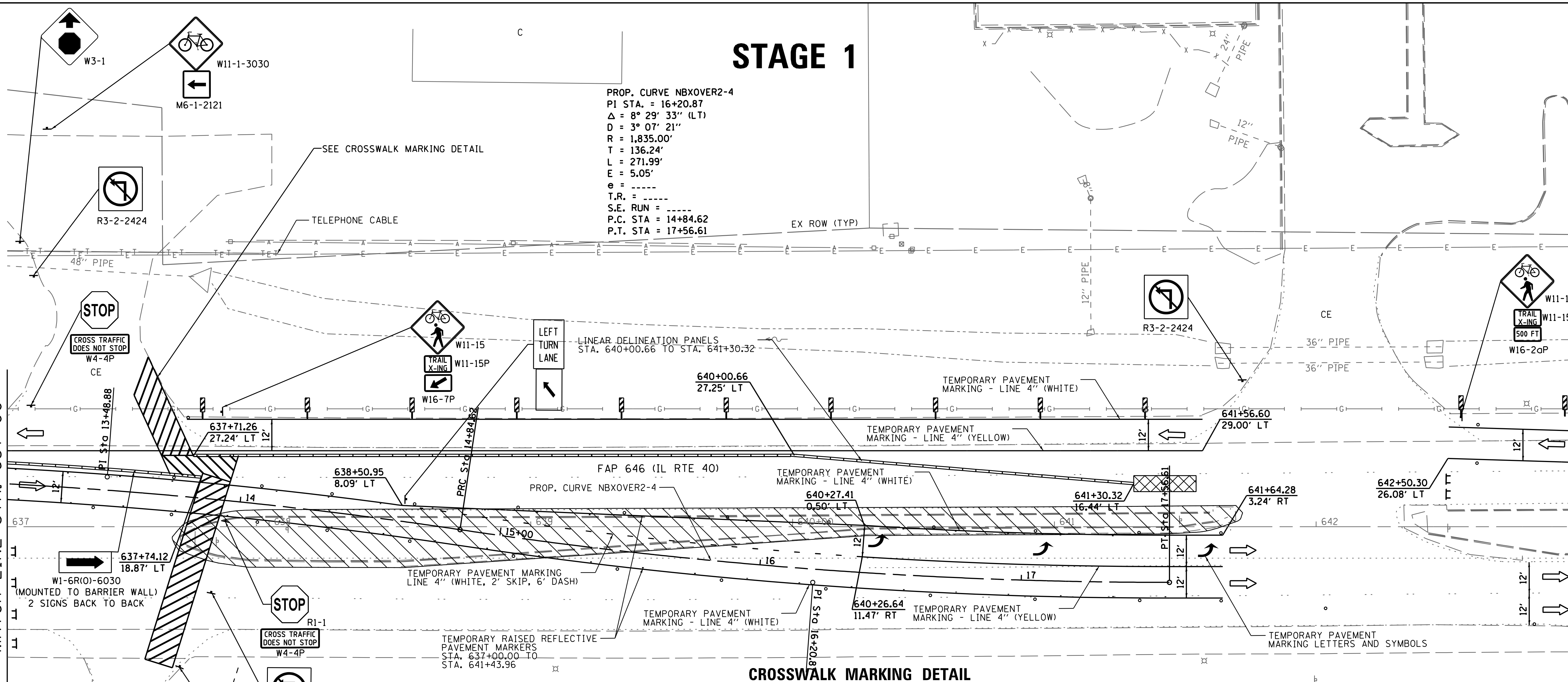
MAINTENANCE OF TRAFFIC
STAGE 1

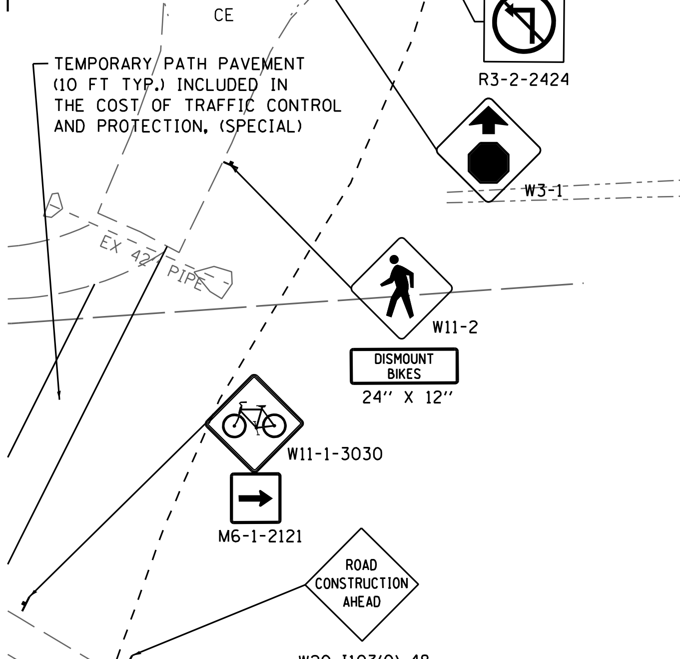
SCALE: 1" = 20' | SHEET 8 OF 22 SHEETS | STA. 631+00 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	40
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

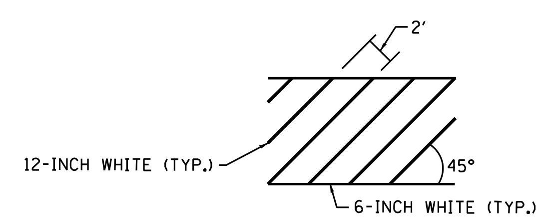
FILE NAME = s:\pl\6388-6399\6346\825\micros\Sht\D2864C17-sht-stagmg08.dgn

STAGE 1





CROSSWALK MARKING DETAIL



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

0 FEET 20 40

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PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

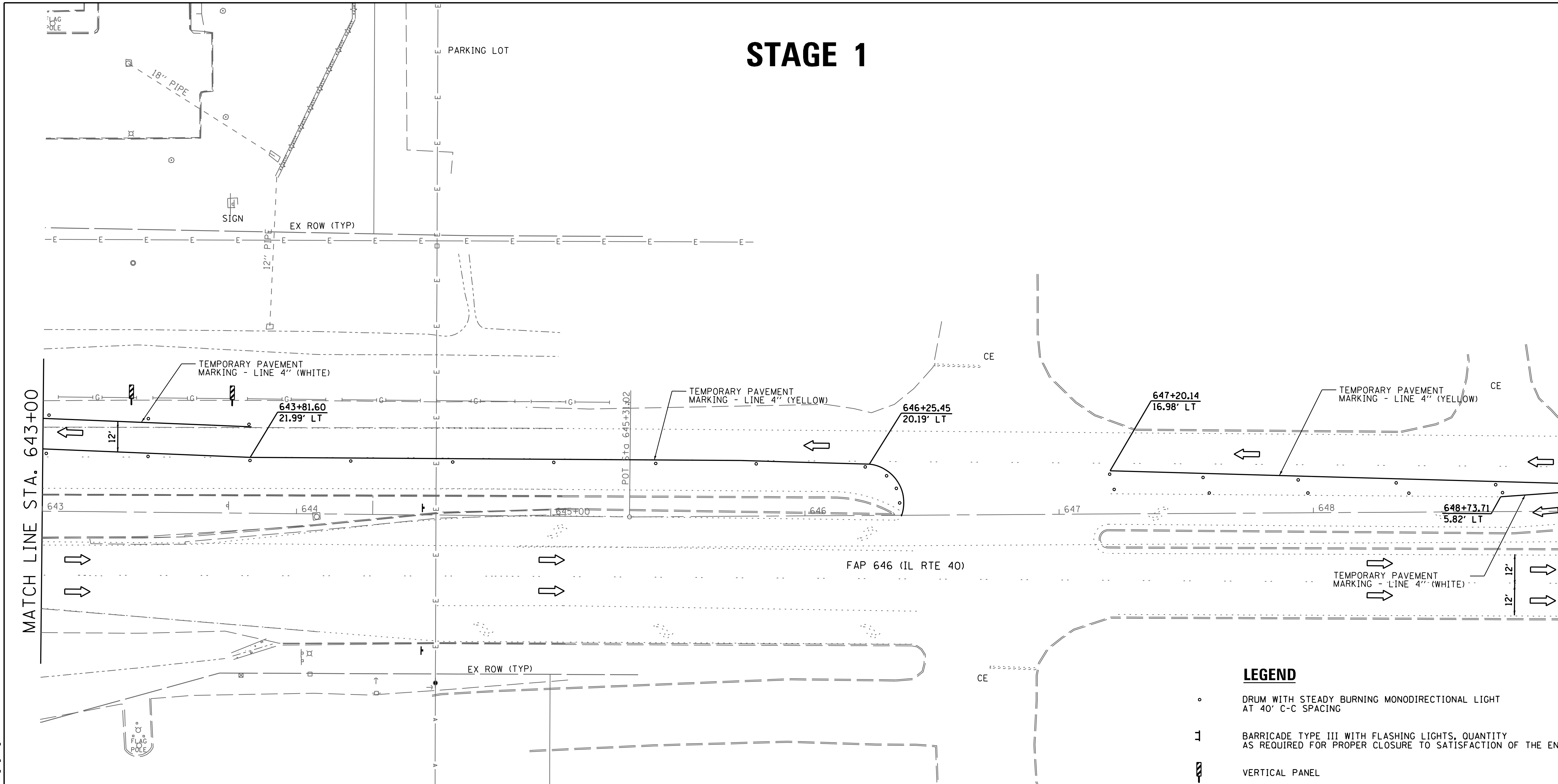
SCALE: 1" = 20' | SHEET 9 OF 22 SHEETS | STA. 637+00 TO STA. 643+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	41

CONTRACT NO. 64C17

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

N

0 FEET 20 40

STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

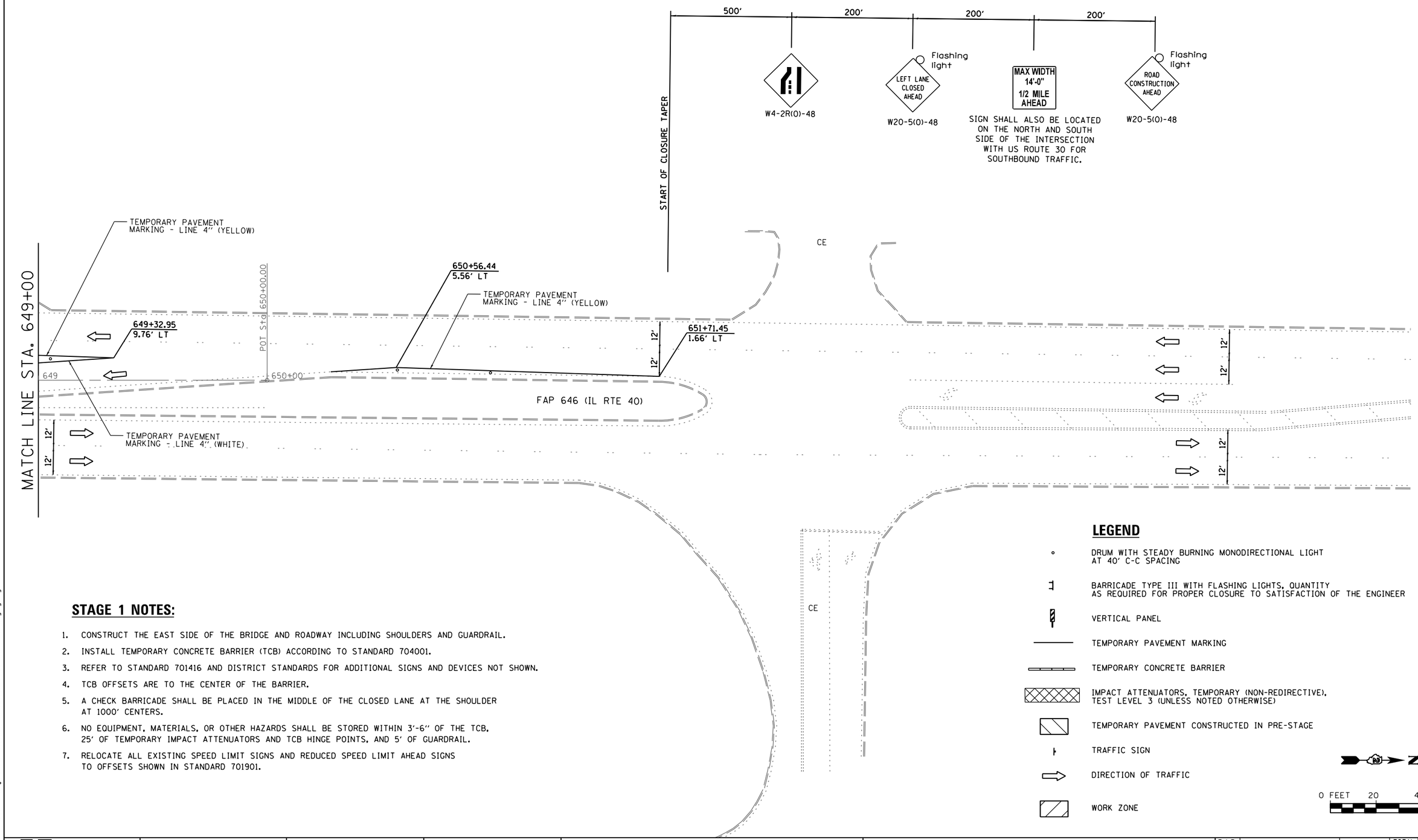
MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 10 OF 22 SHEETS | STA. 643+00 TO STA. 649+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	42
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 1



STAGE 1 NOTES:

1. CONSTRUCT THE EAST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. INSTALL TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

0 FEET 20 40

FILE NAME = s:\pl\6388-6399\6346\025\micros\Sht\D2864C17-sht-stagmgll.dgn

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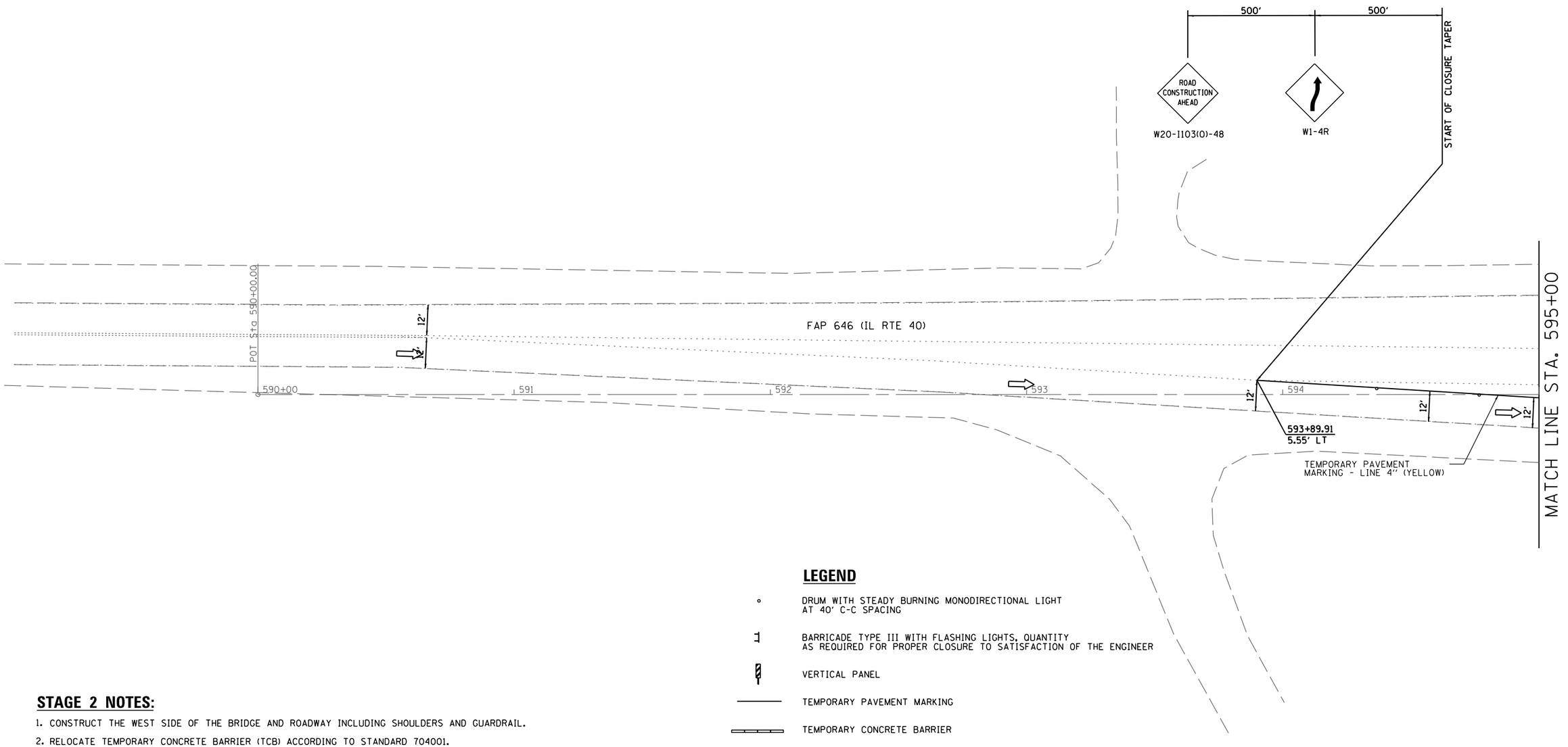
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: 1" = 20' | SHEET 11 OF 22 SHEETS | STA. 649+00 | TO STA. 650+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	43
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

N

0 FEET 20 40

FILE NAME = s:\pol\6300-6399\6346\025\micros\Sht\0264C17-sht-stagngl2.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

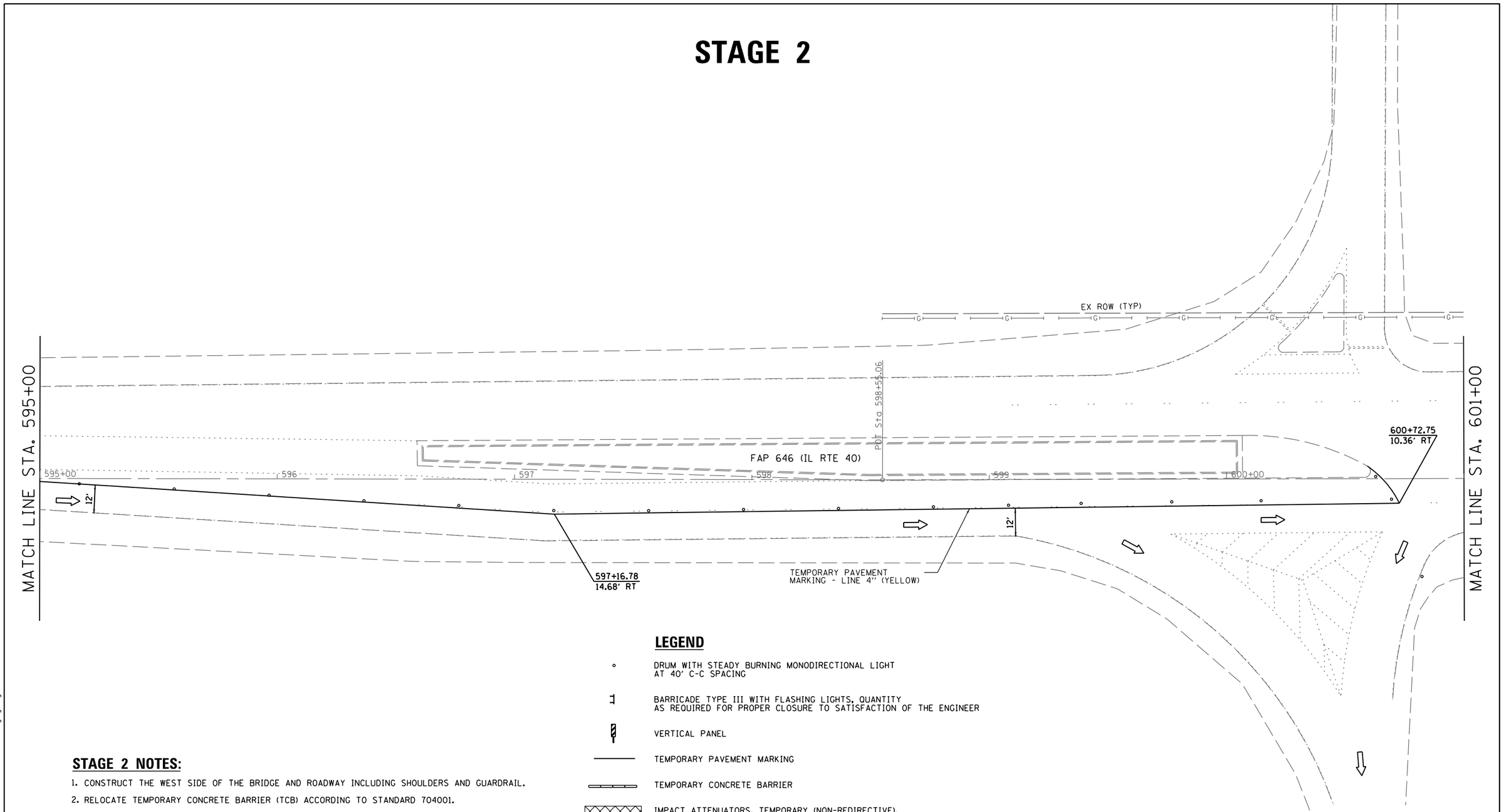
MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 12 OF 22 SHEETS | STA. 590+00 TO STA. 595+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	44
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 2



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

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PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
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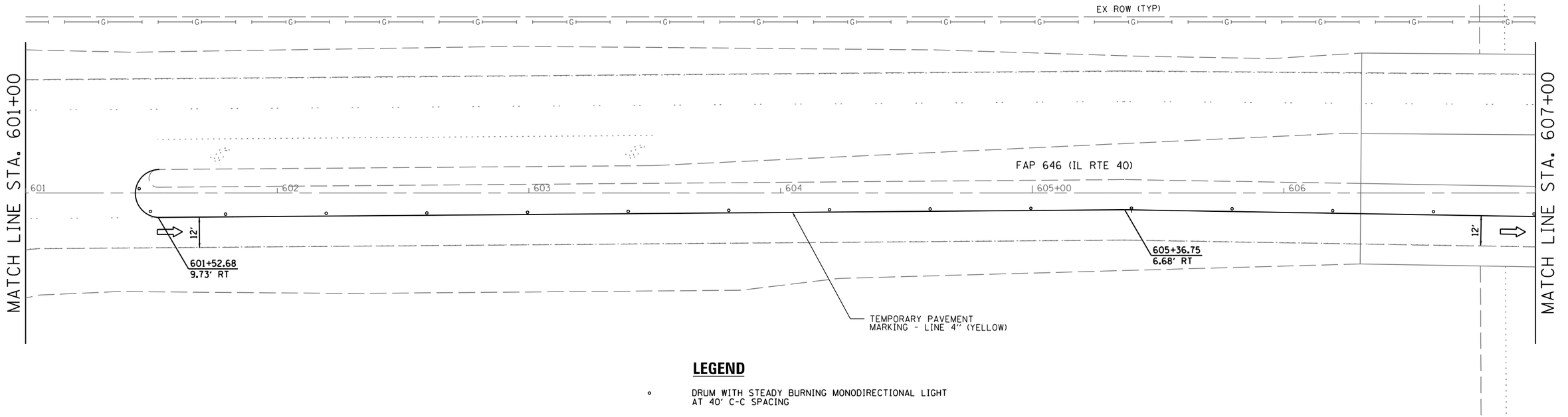
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 13 OF 22 SHEETS | STA. 595+00 TO STA. 601+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	45
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

0 FEET 20 40

FILE NAME = s:\pl\63080-6399\63460025\micros\Sht\D2864C17-sht-stagmg14.dgn

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PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

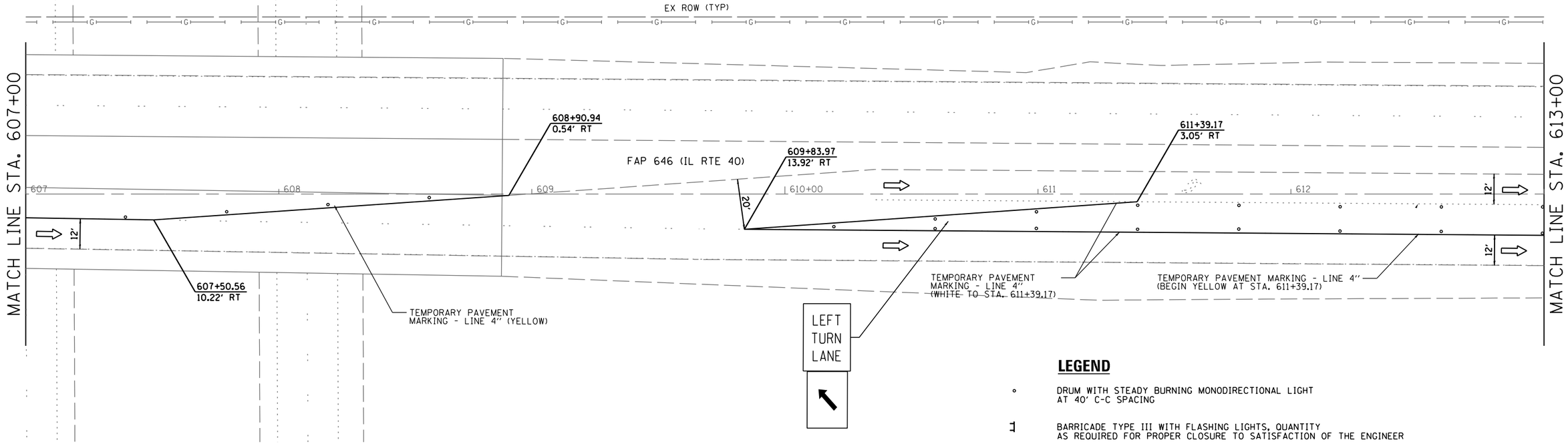
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 14 OF 22 SHEETS | STA. 601+00 | TO STA. 607+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	46
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
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7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

N

0 FEET 20 40

FILE NAME = s:\pl\6300-6399\6346\025\micros\Sht\026AC17-sht-staging15.dgn

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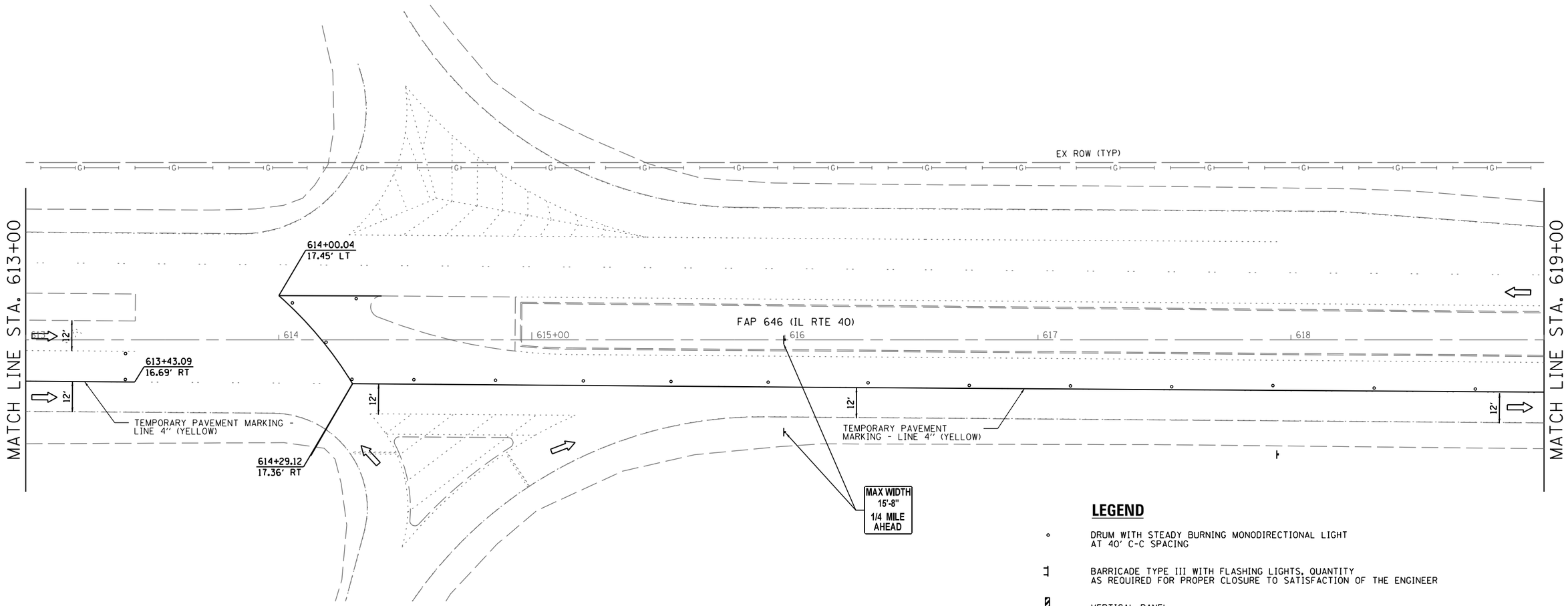
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 15 OF 22 SHEETS | STA. 607+00 TO STA. 613+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	47
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

N

0 FEET 20 40

FILE NAME = s:\jol\6300-6399\6346\025\micros\Sht\0264C17-sht-stagmgl6.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

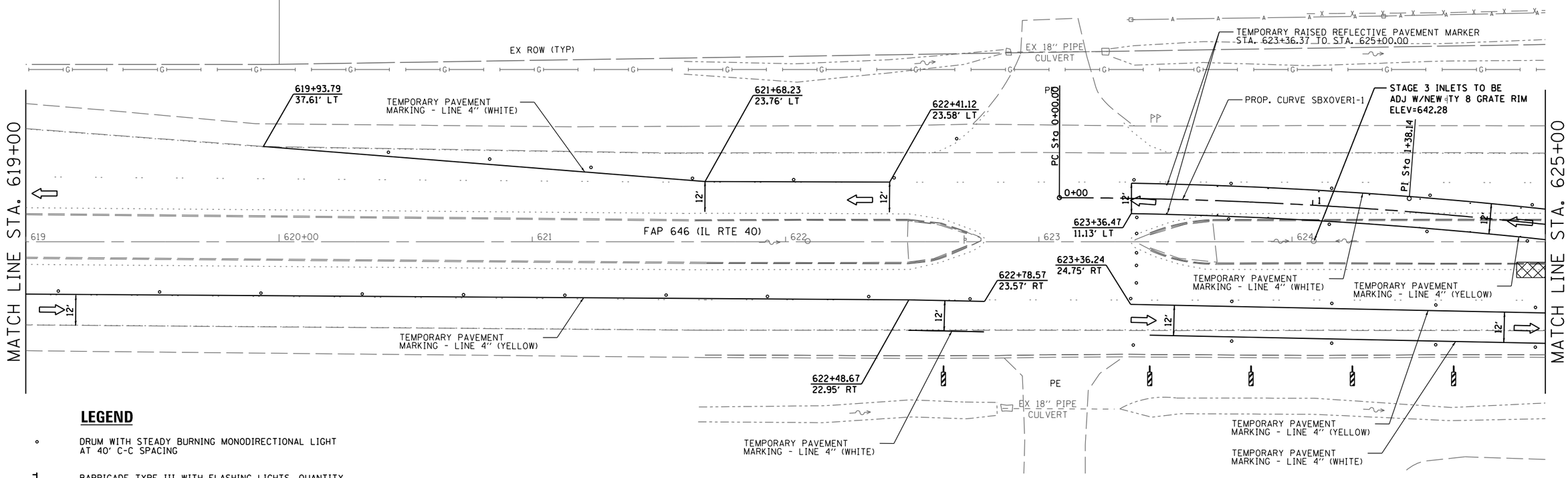
MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 16 OF 22 SHEETS | STA. 613+00 | TO STA. 619+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	48
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2

PROP. CURVE SBXOVER1-1
PI STA. = 1+38.14
Δ = 8° 36′ 36″ (RT)
D = 3° 07′ 21″
R = 1,835.00′
T = 138.14′
L = 275.75′
E = 5.19′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 0+00.00
P.T. STA = 2+75.75



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40′ C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000′ CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3′-6″ OF THE TCB, 25′ OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5′ OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

N

0 FEET 20 40

FILE NAME = s:\pol\6300-6399\6346\025\micros\Sht\0264C17-sht-staging17.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - DJW	REVISED -
PLOT SCALE = 40.0000 ′ / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

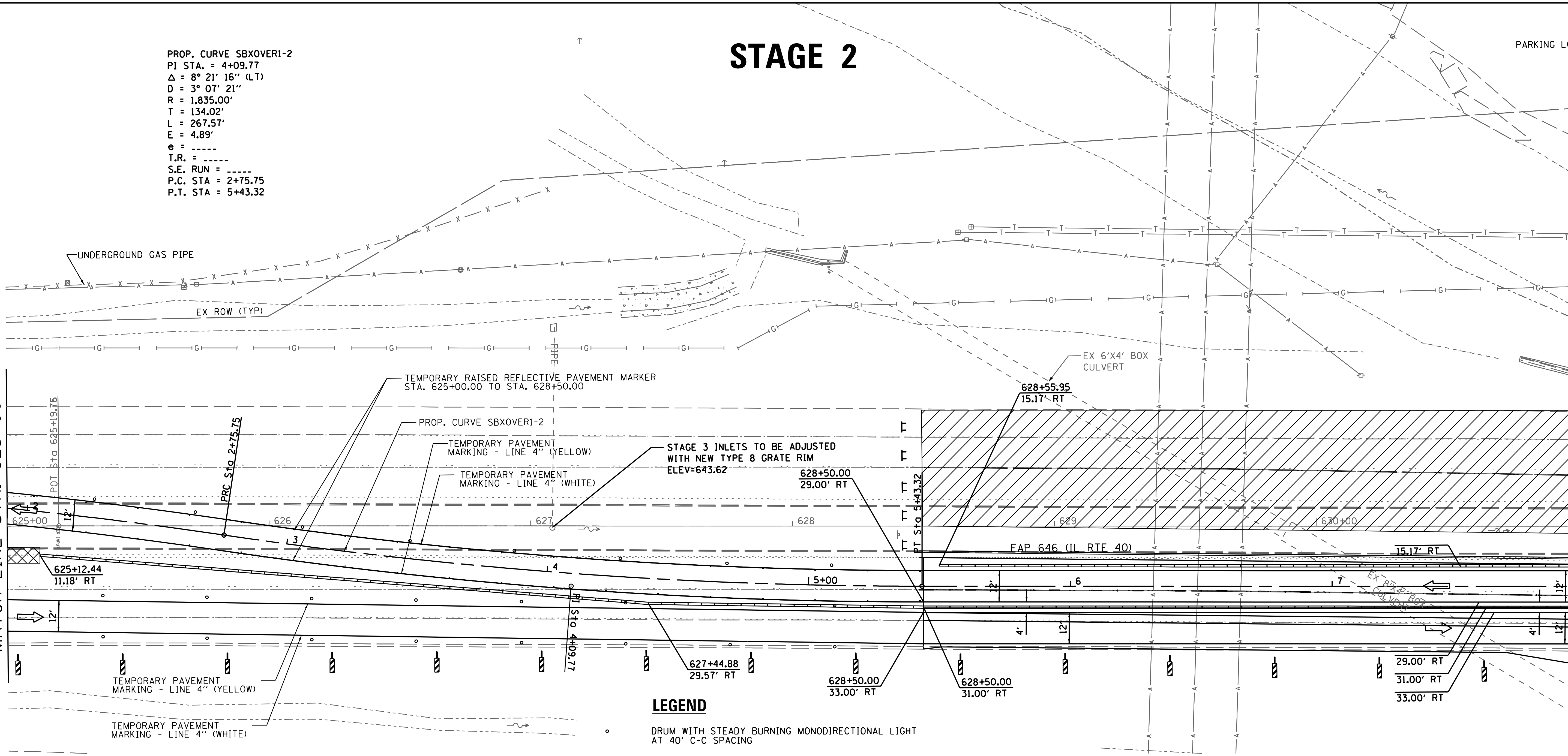
SCALE: 1" = 20′ | SHEET 17 OF 22 SHEETS | STA. 619+00 | TO STA. 625+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	49
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 2

PROP. CURVE SBXOVER1-2
PI STA. = 4+09.77
Δ = 8° 21' 16" (LT)
D = 3° 07' 21"
R = 1,835.00'
T = 134.02'
L = 267.57'
E = 4.89'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA = 2+75.75
P.T. STA = 5+43.32



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

N

0 FEET 20 40

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\0264C17-sht-staging18.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

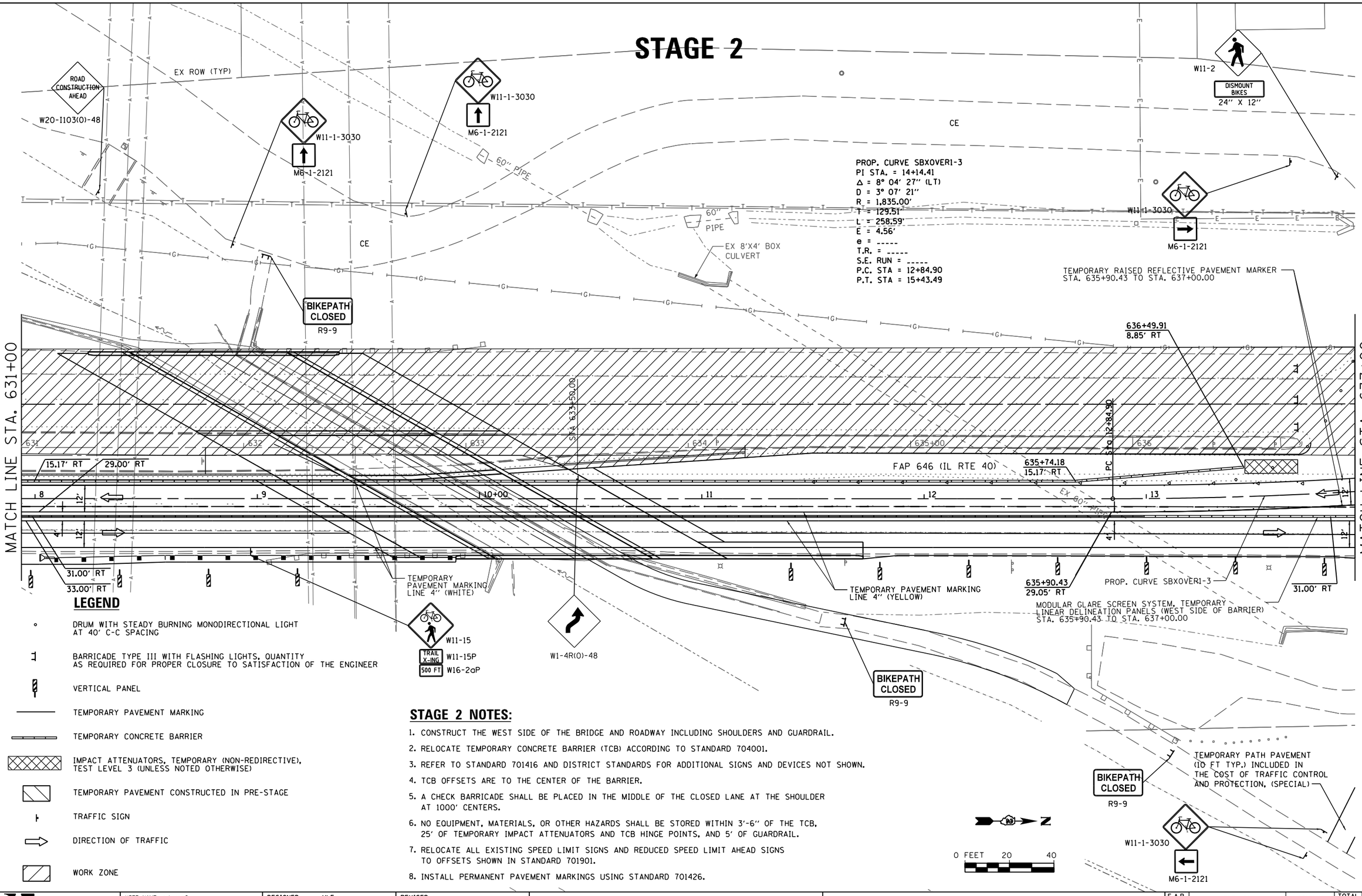
MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 18 OF 22 SHEETS | STA. 625+00 TO STA. 631+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	50
		CONTRACT NO. 64C17		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

STAGE 2



LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

FILE NAME = s:_jol\6300-6399\6346\025\micros\Sht\D2644C17-sht-staging19.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 19 OF 22 SHEETS | STA. 631+00 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	51
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2

NOTE 1

MODULAR GLARE SCREEN SYSTEM, TEMPORARY LINEAR DELINEATION PANELS (WEST SIDE OF BARRIER) STA. 637+62.31 TO STA. 638+50.00

PROP. CURVE SBXOVER1-4
PI STA. = 16+66.29
Δ = 7° 39' 27" (RT)
D = 3° 07' 21"
R = 1,834.99'
T = 122.81'
L = 245.24'
E = 4.10'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 15+43.49
P.T. STA = 17+88.73

0 FEET 20 40

W3-1
W11-1-3030
M6-1-2121
R3-2-2424
W11-15
W11-15P
W16-7P
W16-2aP
R1-1
W4-4P
W1-6R(0)-6030
W3-1
M6-1-2121
W11-1-3030
W20-1103(0)-48
R3-1100L 24X24
M6-2L 21X15

TELEPHONE CABLE
EX ROW (TYP)
48" PIPE
24" PIPE
12" PIPE
36" PIPE
36" PIPE
EX 42" PIPE
CE
SEE CROSSWALK MARKING DETAIL
SEE NOTE 1
TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER STA. 637+00.00 TO STA. 640+93.10
MODULAR GLARE SCREEN SYSTEM, TEMPORARY LINEAR DELINEATION PANELS (WEST SIDE OF BARRIER) STA. 637+62.31 TO STA. 638+50.00
PROP. CURVE SBXOVER1-4
TEMPORARY PAVEMENT MARKING LINE 4" (WHITE)
PRC Sta 15+43.49
PI Sta 16+66.29
PT Sta 17+88.73
FAP 646 (IL RTE 40)
TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE TO STA. 640+82.56)
TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
TEMPORARY PAVEMENT MARKING - LINE 4" (BEGIN YELLOW AT STA. 640+82.56)
TEMPORARY PATH PAVEMENT (10 FT TYP.) INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
DISMOUNT BIKES 24" X 12"
MATCH LINE STA. 637+00
MATCH LINE STA. 643+00

637+00.11 31.00' RT
637+00.00 33.00' RT
637+62.31 6.01' RT
637+62.36 23.08' RT
637+64.35 30.05' RT
638+02.71 31.48' RT
638+47.48 4.03' LT
638+87.30 13.10' LT
639+55.33 29.23' RT
639+96.59 2.94' RT
640+52.86 14.87' RT
640+93.10 19.25' LT
641+13.49 5.16' LT
641+40.89 2.88' LT
641+69.85 2.72' RT
641+69.87 14.72' RT
641+69.88 26.06' RT
641+70.78 20.11' LT
642+39.22 20.77' LT

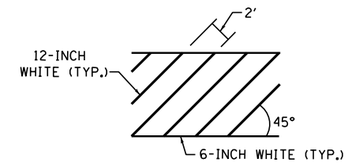
LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

CROSSWALK MARKING DETAIL



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

USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - DJW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

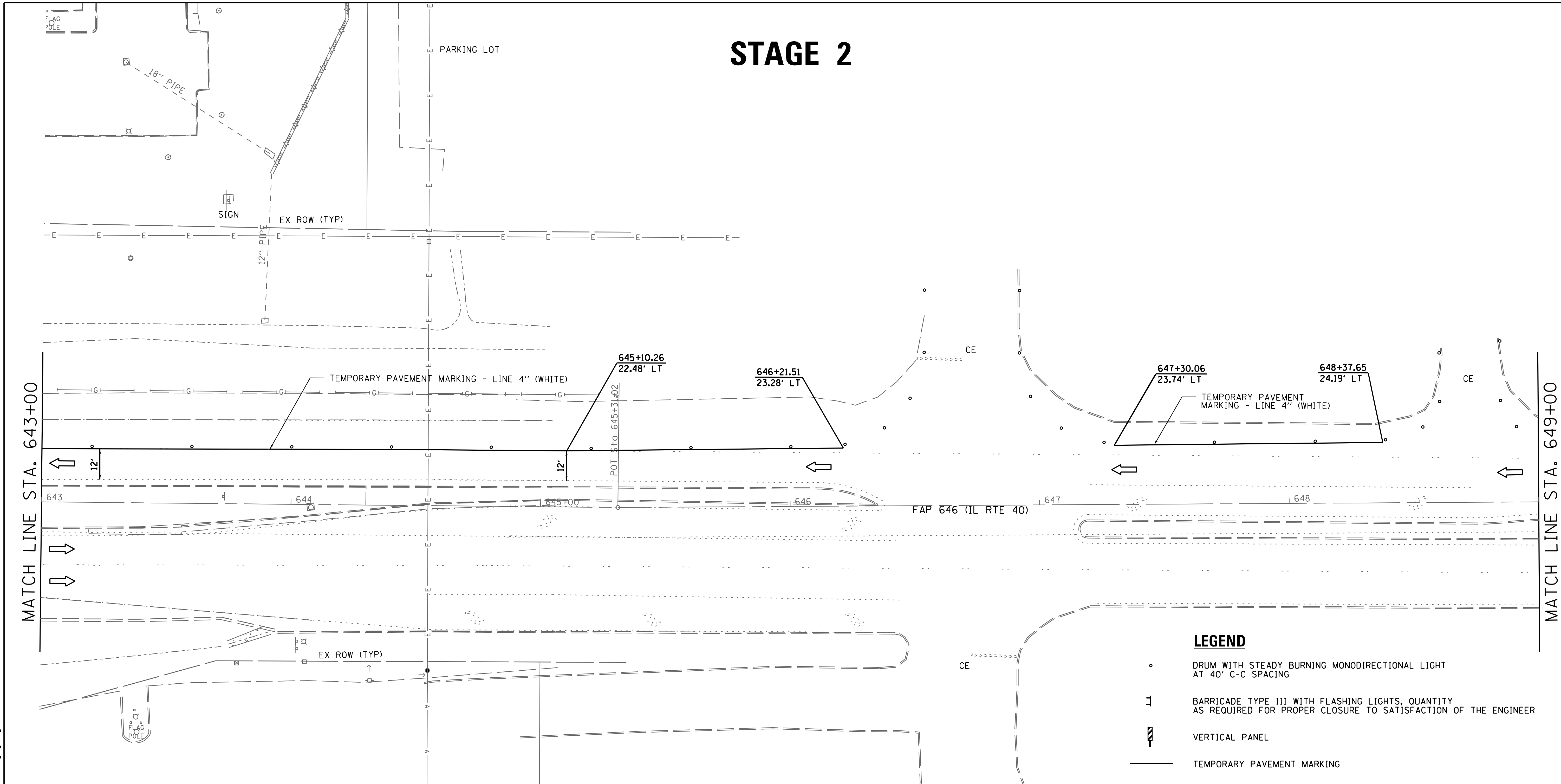
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 20 OF 22 SHEETS | STA. 637+00 TO STA. 643+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	52
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



LEGEND

∘	DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
	BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
	VERTICAL PANEL
	TEMPORARY PAVEMENT MARKING
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
	TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
	TRAFFIC SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE

N

0 FEET 20 40

STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
3. REFER TO STANDARD 701416 AND DISTRICT STANDARDS FOR ADDITIONAL SIGNS AND DEVICES NOT SHOWN.
4. TCB OFFSETS ARE TO THE CENTER OF THE BARRIER.
5. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AT THE SHOULDER AT 1000' CENTERS.
6. NO EQUIPMENT, MATERIALS, OR OTHER HAZARDS SHALL BE STORED WITHIN 3'-6" OF THE TCB, 25' OF TEMPORARY IMPACT ATTENUATORS AND TCB HINGE POINTS, AND 5' OF GUARDRAIL.
7. RELOCATE ALL EXISTING SPEED LIMIT SIGNS AND REDUCED SPEED LIMIT AHEAD SIGNS TO OFFSETS SHOWN IN STANDARD 701901.
8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\0264C17-sht-staging21.dgn

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

USER NAME = brianf	DESIGNED - VLF	REVISED -	
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PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -	
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -	

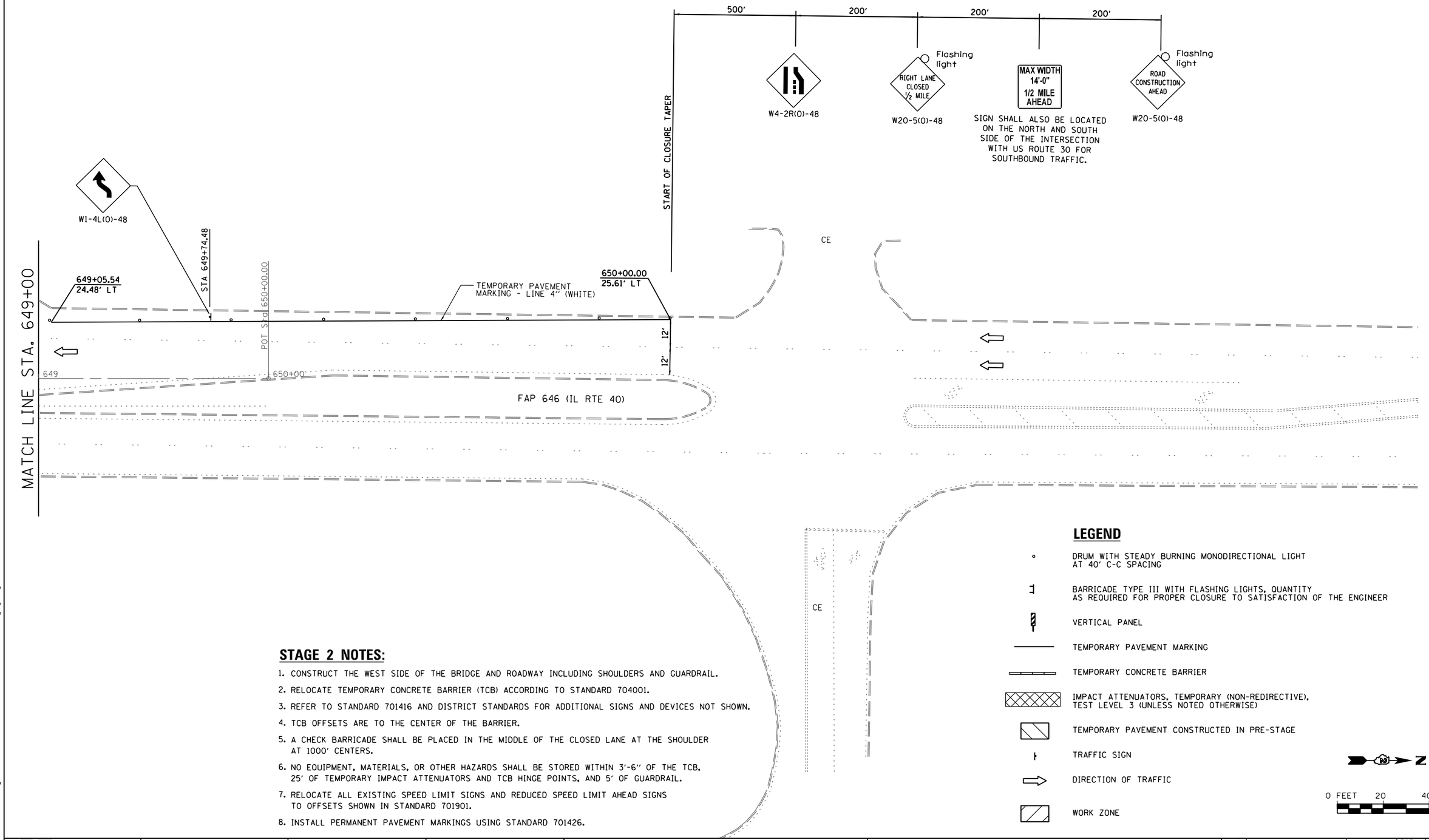
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 21 OF 22 SHEETS | STA. 643+00 TO STA. 649+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	53
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES:

1. CONSTRUCT THE WEST SIDE OF THE BRIDGE AND ROADWAY INCLUDING SHOULDERS AND GUARDRAIL.
2. RELOCATE TEMPORARY CONCRETE BARRIER (TCB) ACCORDING TO STANDARD 704001.
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8. INSTALL PERMANENT PAVEMENT MARKINGS USING STANDARD 701426.

LEGEND

- DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT AT 40' C-C SPACING
- BARRICADE TYPE III WITH FLASHING LIGHTS, QUANTITY AS REQUIRED FOR PROPER CLOSURE TO SATISFACTION OF THE ENGINEER
- VERTICAL PANEL
- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT CONSTRUCTED IN PRE-STAGE
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

0 FEET 20 40

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

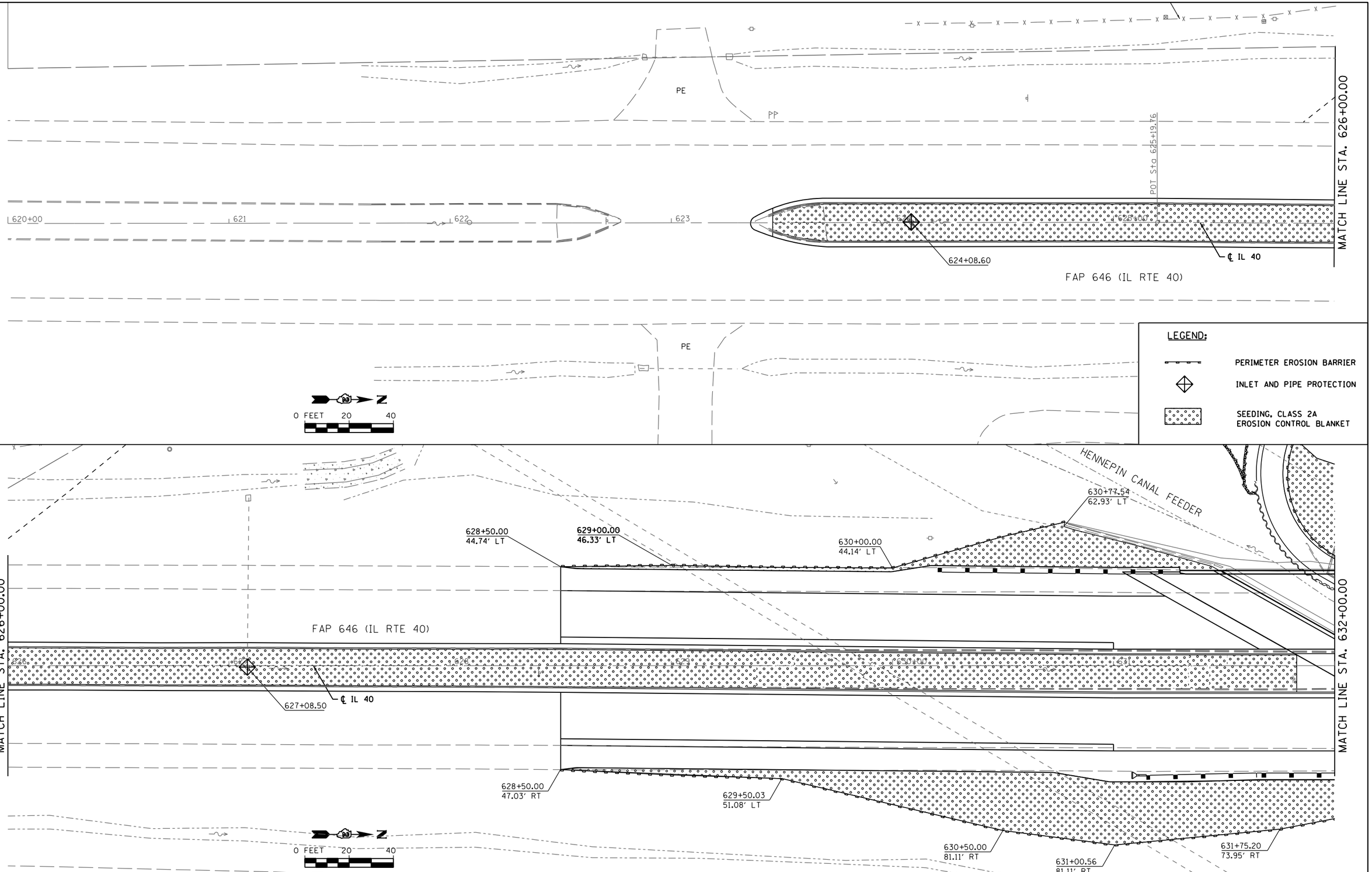
USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - DJW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1" = 20' | SHEET 22 OF 22 SHEETS | STA. 649+00 | TO STA. 650+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	54
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



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STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED - VLF	REVISED -
		DRAWN - BJF	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
	PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEETS

SCALE: 1" = 20' | SHEET 1 OF 3 SHEETS | STA. 620+00 | TO STA. 632+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	55
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 632+00.00

CE

60" PIPE

60" PIPE

CE

634+00.36
76.13' LT

EX 8'X4' BOX CULVERT

633+50.00
61.77' LT

632+65.97
60.30' LT

633+00.38
53.77' LT

635+00.35
49.07' LT

635+99.99
42.36' LT

637+00.00
44.52' LT

48" PIPE

FAP 646 (IL RTE 40)

CE

632 | 633 | 634 | 635+00 | 636 | 637

EX 60" PIPE

0 FEET 20 40

632+49.50
59.72' RT

633+10.35
65.47' RT

632+99.43
671.10' RT

HENNEPIN CANAL FEEDER

637+00.00
50.00' RT

CE

635+85.80
54.32' RT

635+84.09
107.10' RT

636+27.96
127.57' RT

EX 42" PIPE

LEGEND:

PERIMETER EROSION BARRIER

INLET AND PIPE PROTECTION

SEEDING, CLASS 2A, EROSION CONTROL BLANKET

FILE NAME = s:\pw\6300-6399\6346\025\micros\Sht\026461?-sht-erosion02.dgn

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

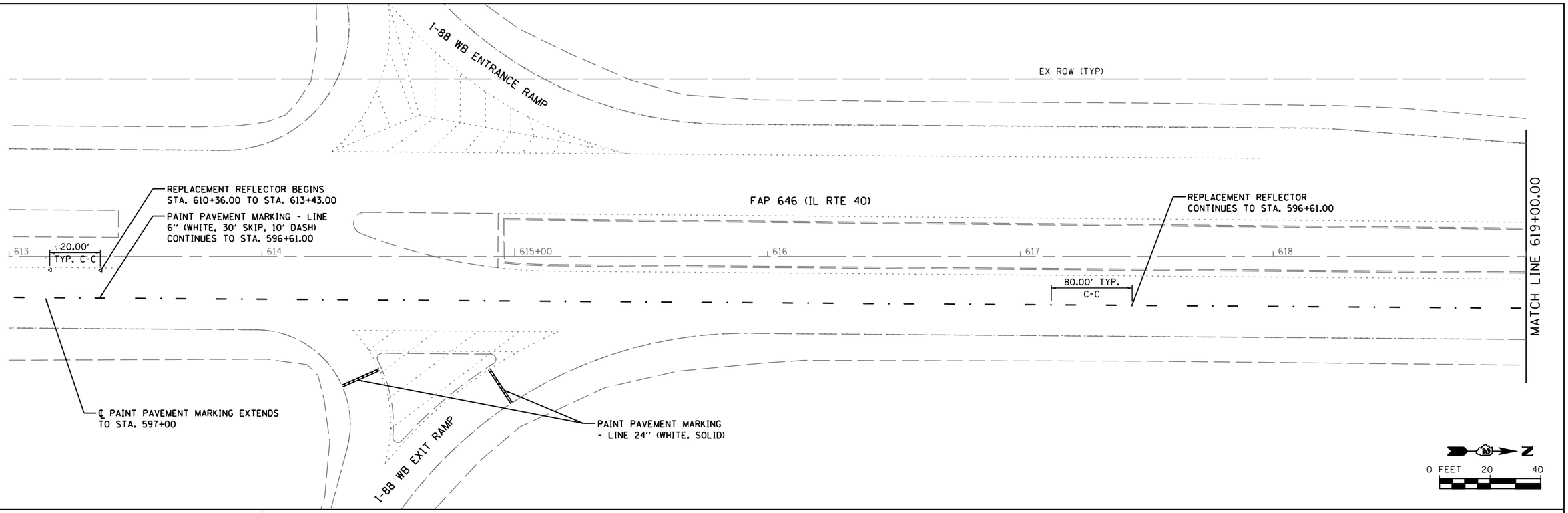
USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - BJF	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

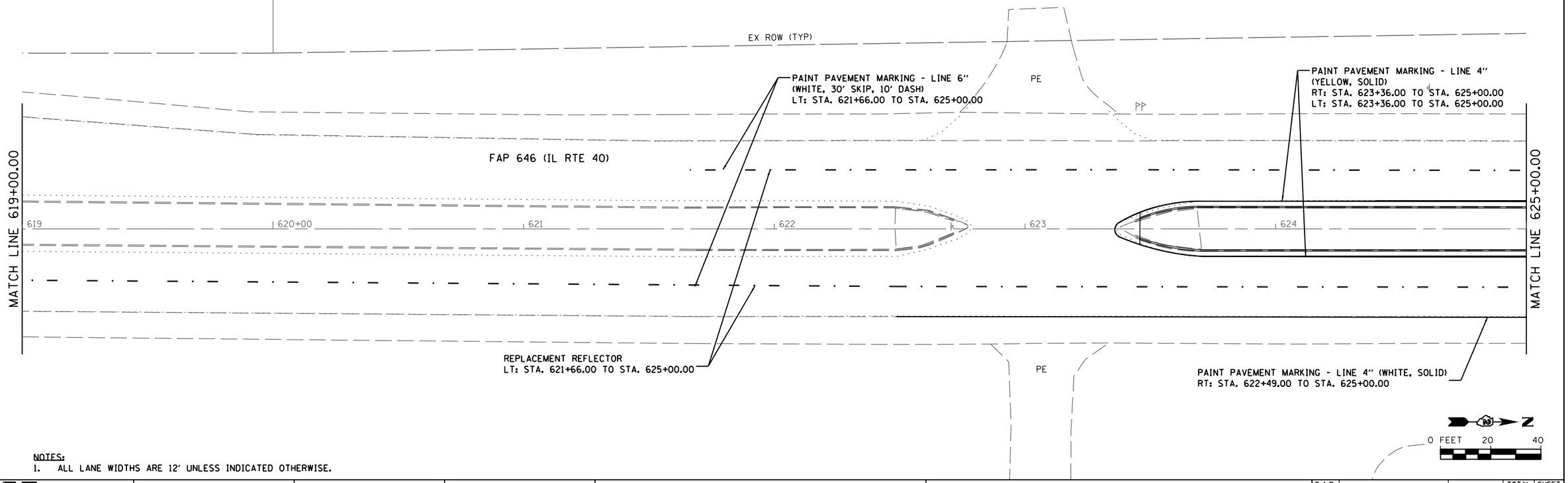
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEETS

SCALE: 1" = 20' | SHEET 2 OF 3 SHEETS | STA. 632+00 | TO STA. 644+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	56
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		





NOTES:
1. ALL LANE WIDTHS ARE 12' UNLESS INDICATED OTHERWISE.

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(815) 744-4200

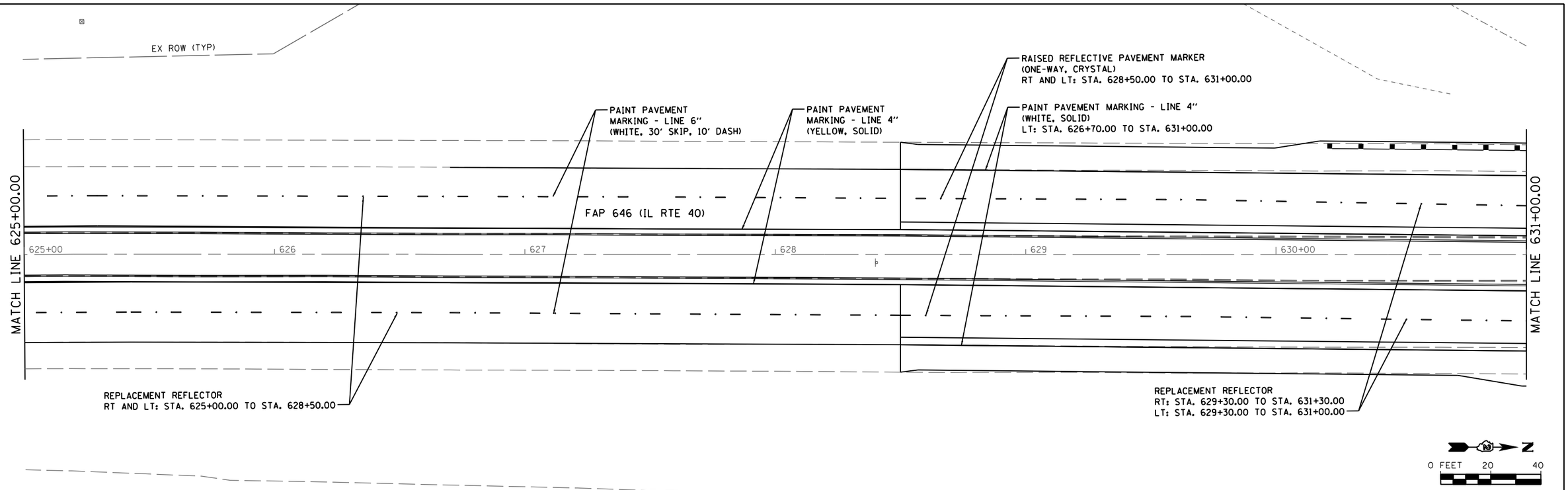
USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - BJF	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

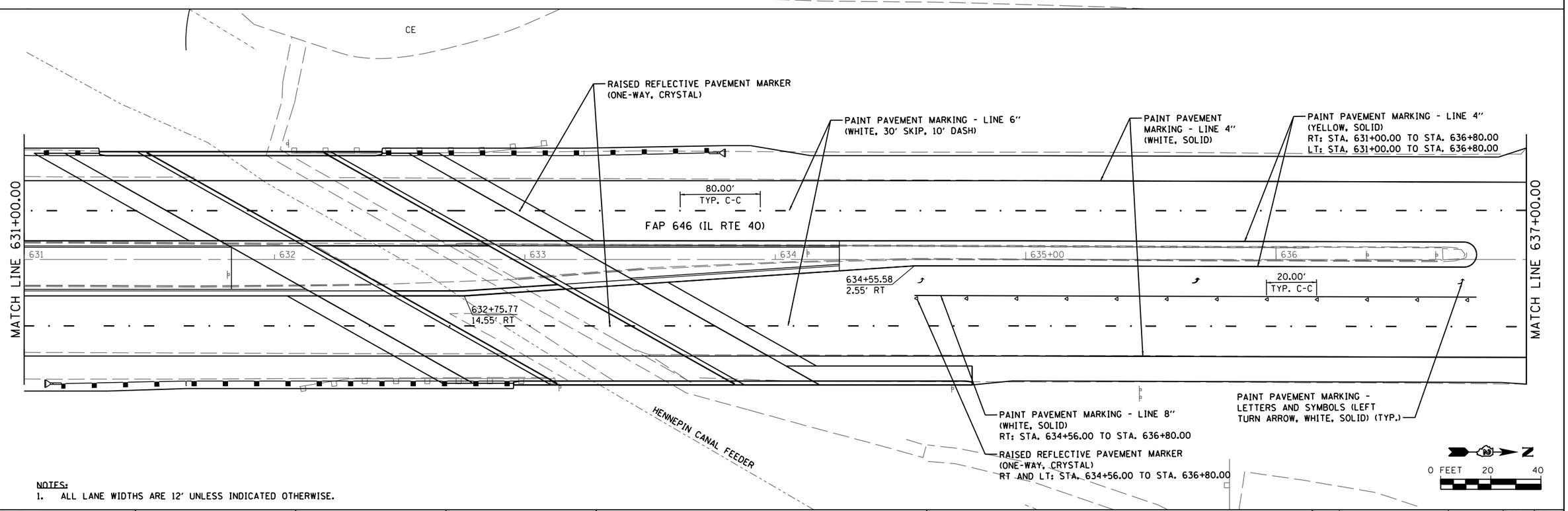
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	57
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		





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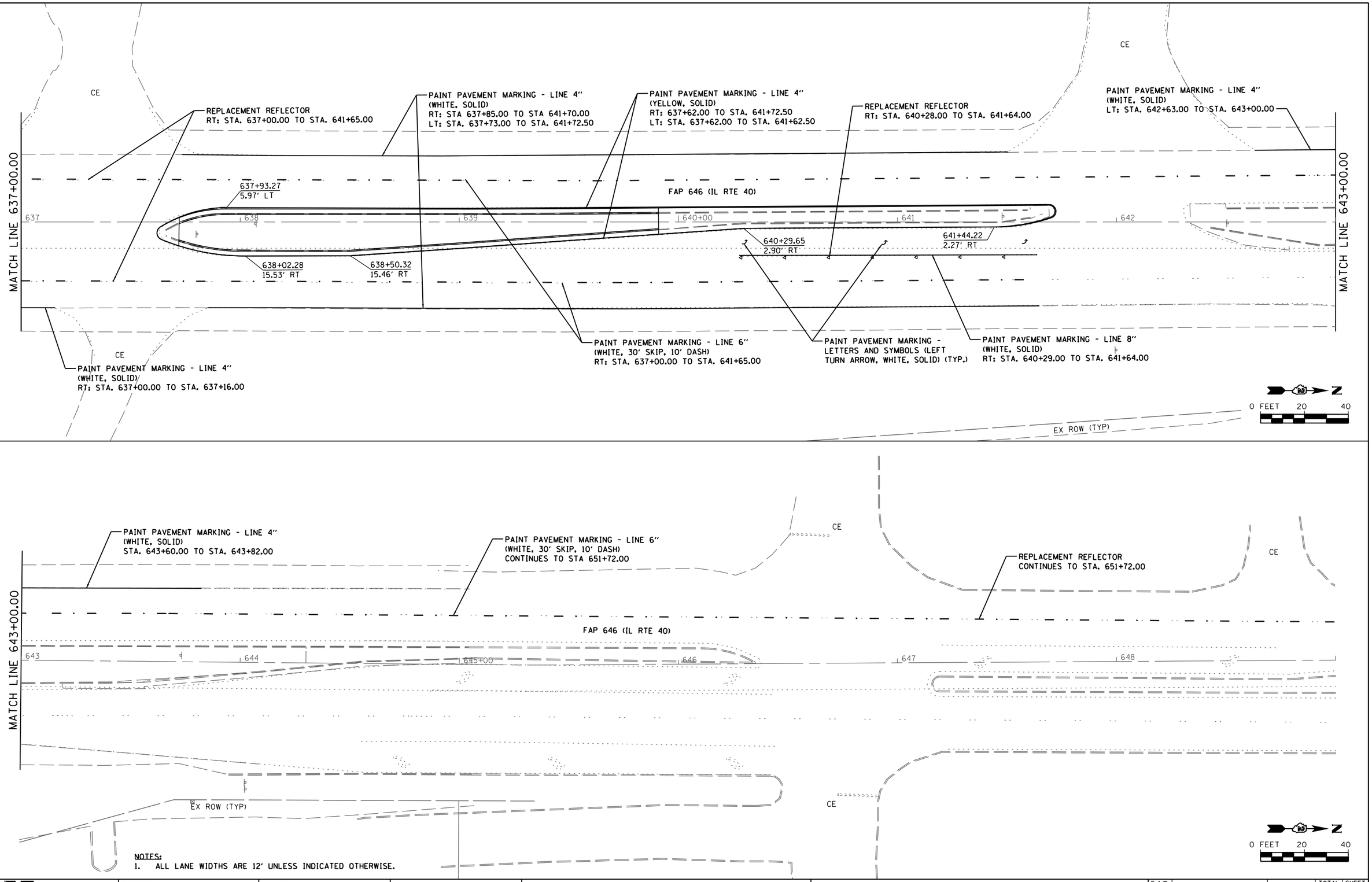
USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - BJF	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	58
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



NOTES:
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JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf	DESIGNED - VLF	REVISED -
	DRAWN - BJF	REVISED -
PLOT SCALE = 40.0000 '/ in.	CHECKED - MAG	REVISED -
PLOT DATE = 8/14/2014	DATE - 8-14-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	59
		CONTRACT NO. 64C17		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

Benchmark: Chiseled "X" on northwest corner of concrete headwall. Elev. 644.96

Existing Structure: S.N. 098-0015 originally constructed in 1966 as SBI Route 88, Section 101 B-1. The width was doubled in 1972 as FA 403, Section 195-(101 BY). Existing Structure is a combination PPC Deck Beam structure, Bk to Bk Abut 63.63' and Out to Out width 92'-0". The east third of the structure consists of 27" side by side deck beams. The west two-thirds consists of 33" deck beams spaced at ±6' centers supporting a 7" R.C. deck. Traffic to be maintained using stage construction.

No Salvage.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim (Bridge Structure)
2002 AASHTO Standard Specification for Highway Bridges (Retaining Wall and Wingwalls)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.087g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.141g
Soil Site Class = D

DESIGN STRESSES

NEW CONSTRUCTION
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

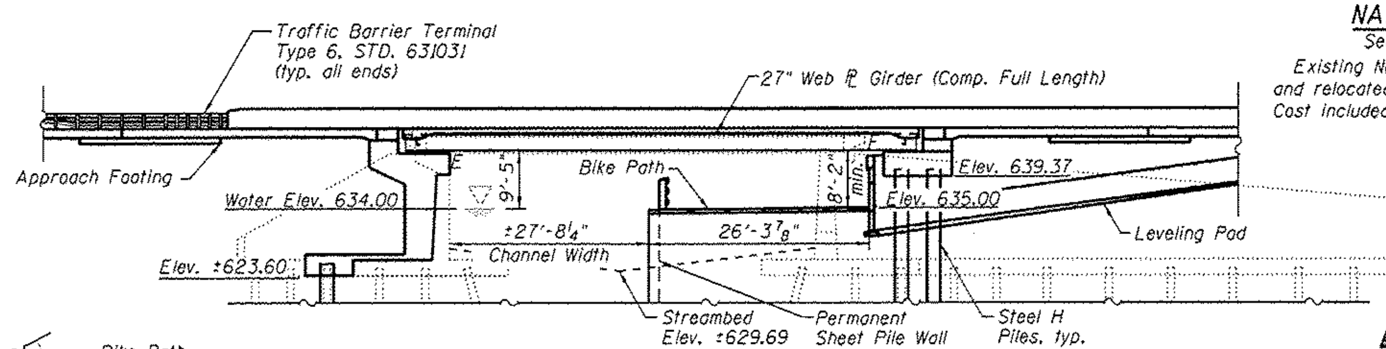
EXISTING CONSTRUCTION
f'c = 2,200 psi
fy = 40,000 psi (Reinforcement)

STATION 632+59.38
RE-BUILT 201X BY
STATE OF ILLINOIS
F.A.P. RTE. 646 SEC.101 BR-3
LOADING HL-93
STRUCTURE NO. 098-0015

NAME PLATE

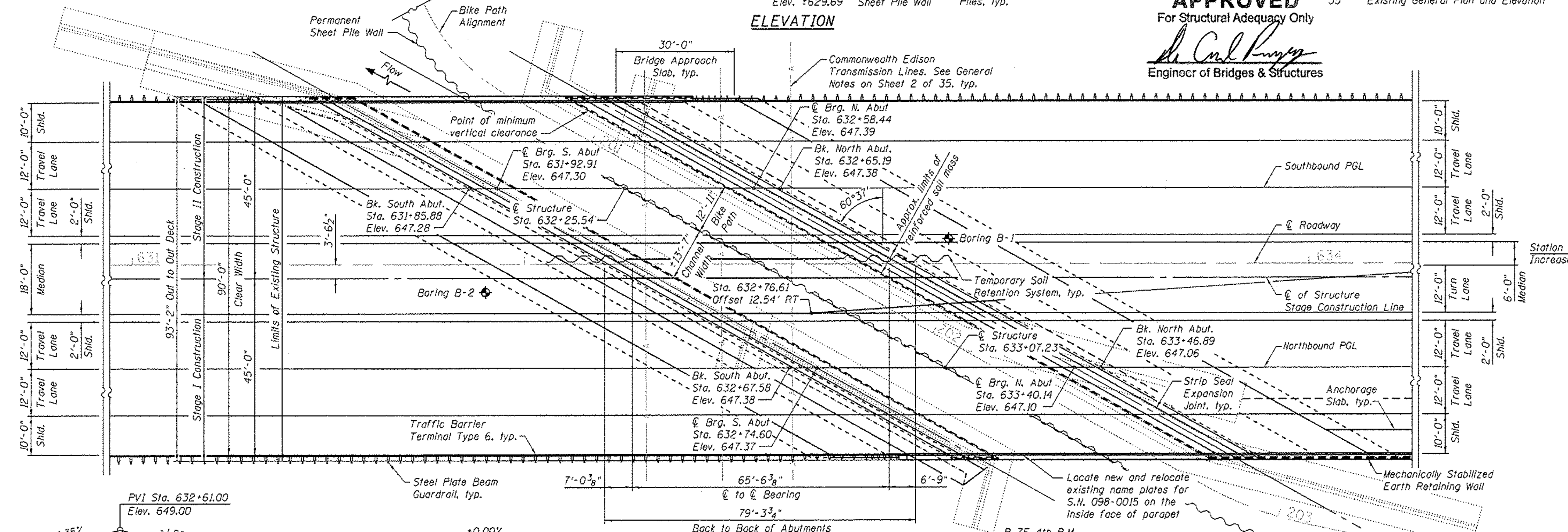
See Std. 515001
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

INDEX OF SHEETS

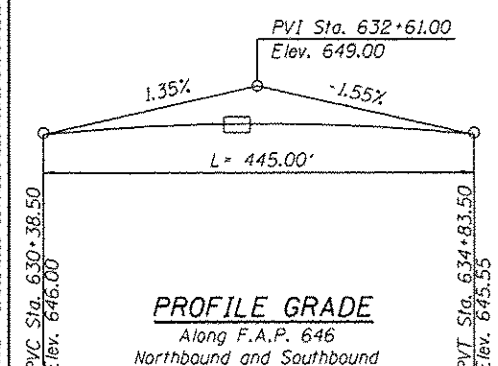


ELEVATION

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

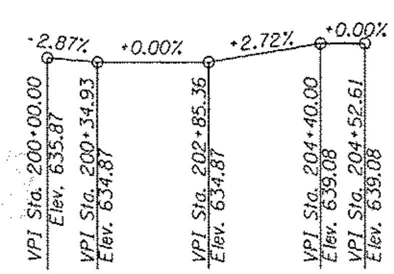


PLAN



PROFILE GRADE

Along F.A.P. 646 Northbound and Southbound Profile Grade Lines

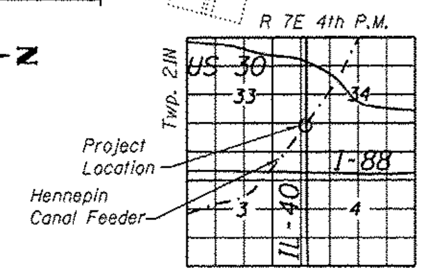


PROFILE GRADE

Along Bike Path

WATERWAY INFORMATION

Flow is controlled. Waterway opening has been determined by recreational requirements.



LOCATION SKETCH

ANTHONY J. STANDISH
081-005819
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
exp 11/2014

GENERAL PLAN AND ELEVATION
F.A.P. 646 (IL-40) OVER
HENNEPIN CANAL FEEDER
SECTION 101 BR-3
WHITESIDE COUNTY
STATION 632+59.38
STRUCTURE NO. 098-0015

FILE NAME : S:\JOL\6300--6399\6346\023\Wdcross\Sht\Structural Plans\0980015-64C17-001-GPE.dgn

STRAND ASSOCIATES® IDFPR NO. 184-001273
1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200

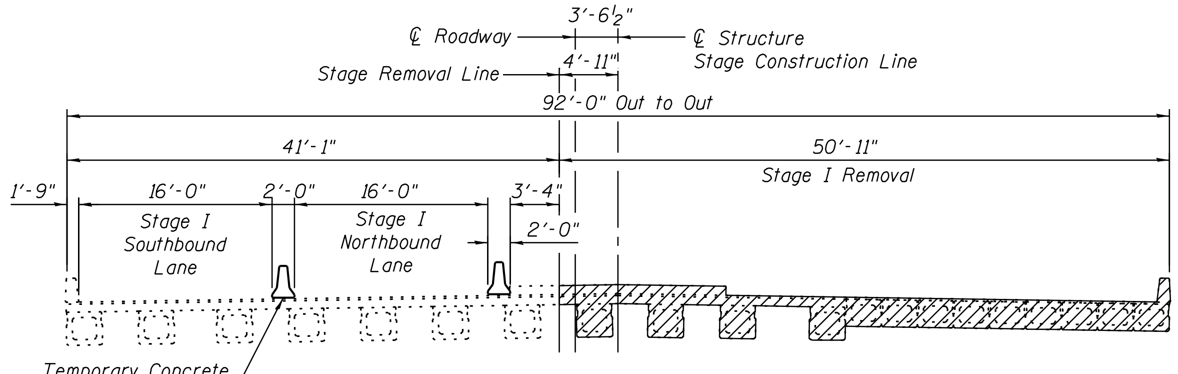
USER NAME = dennisw	DESIGNED - MJD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/15/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

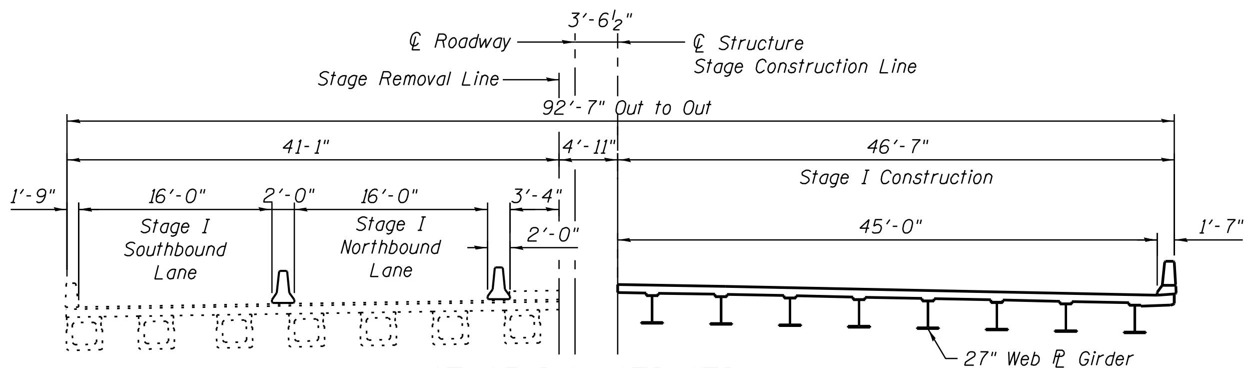
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-0015
SHEET NO. 1 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	60
		CONTRACT NO. 64C17		

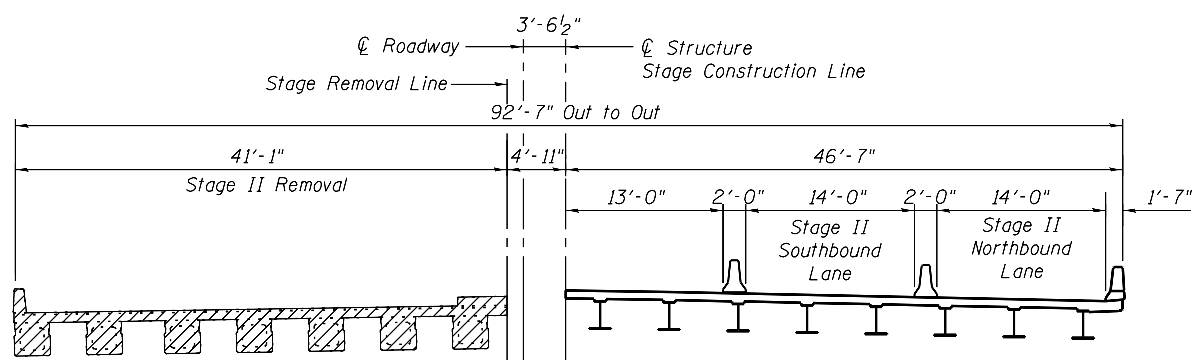
ILLINOIS FED. AID PROJECT



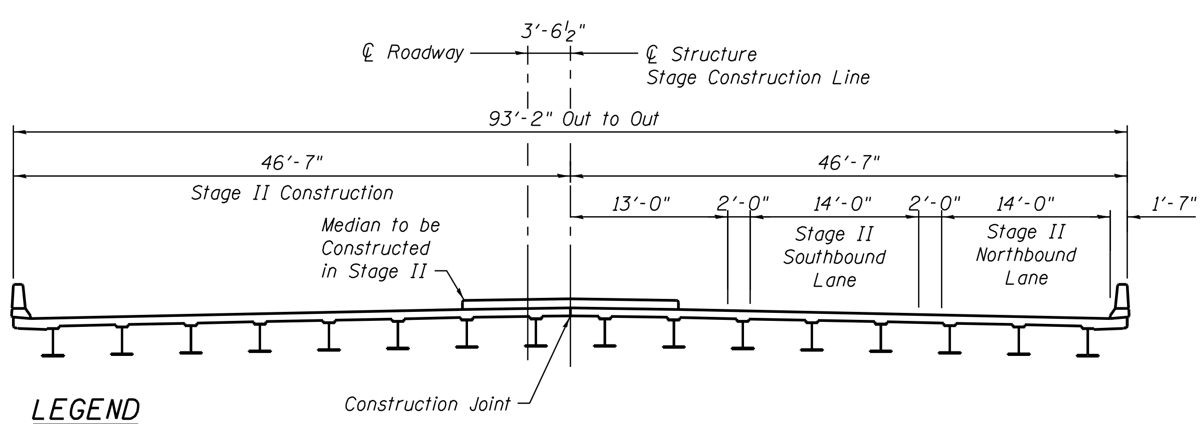
STAGE 1 REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

LEGEND

Removal of Existing Structures

Proposed Concrete

Note:
All cross sections are looking North.
See recurring special provision check sheet #6 for Asbestos Bearing Pad Removal.
See Roadway Plans for quantity of temporary barrier.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu Yd		448	448
Removal of Existing Structures	Each		1	1
Concrete Removal	Cu Yd		82	82
Structure Excavation	Cu Yd		1,313	1,313
Removal and Disposal of Unsuitable Material for Structures	Cu Yd		448	448
Concrete Structures	Cu Yd		778	778
Concrete Superstructure	Cu Yd	643		643
Bridge Deck Grooving	Sq Yd	1,307		1,307
Protective Coat	Sq Yd	1,431		1,431
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	6,480		6,480
Reinforcement Bars, Epoxy Coated	Pound	139,850	131,370	271,220
Bar Splicers	Each	371	570	941
Furnishing Steel Piles HP 12x53	Foot		4,701	4,701
Driving Piles	Foot		4,701	4,701
Test Pile Steel HP 12x53	Each		2	2
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	378		378
Elastomeric Bearing Assembly, Type I	Each	16		16
Anchor Bolts, 1"	Each	64		64
Concrete Sealer	Sq Ft		3,921	3,921
Epoxy Crack Injection	Foot		100	100
Geocomposite Wall Drain	Sq Yd		409	409
Granular Backfill for Structures	Cu Yd		545	545
Permanent Steel Sheet Piling	Sq Ft		12,893	12,893
Asbestos Bearing Pad Removal	Each		80	80
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft		50	50
Mechanically Stabilized Earth Retaining Wall	Sq Ft		2,472	2,472
Pipe Underdrains For Structures 4"	Foot		304	304
Temporary Soil Retention System	Sq Ft		2,795	2,795

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 3/4-in. ϕ, holes 15/16-in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 251,647 Pounds.

All structural steel shall be AASHTO M 270 Grade 50W (except expansion joints which shall be AASHTO M 270 Grade 50).

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

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

Concrete Sealer shall be applied to the designated areas of the abutment. This area includes the exposed face of the backwall, bridge seats and the front face of the abutment. On the South Abutment, Concrete Sealer shall only be applied to new concrete.

All structural steel and exposed surfaces of bearings within a distance of 8-ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Slip forming of the parapet is not allowed.

The abutments are to be repaired as necessary using Epoxy Crack Injection and Structural Repair of Concrete (Depth Equal to or less than 5 Inches). At the time observations were performed no deficiencies were identified. Actual areas to be repaired shall be determined by the Engineer in the field at the time of construction. Quantities have been added to the plans and are for bidding purposes only.

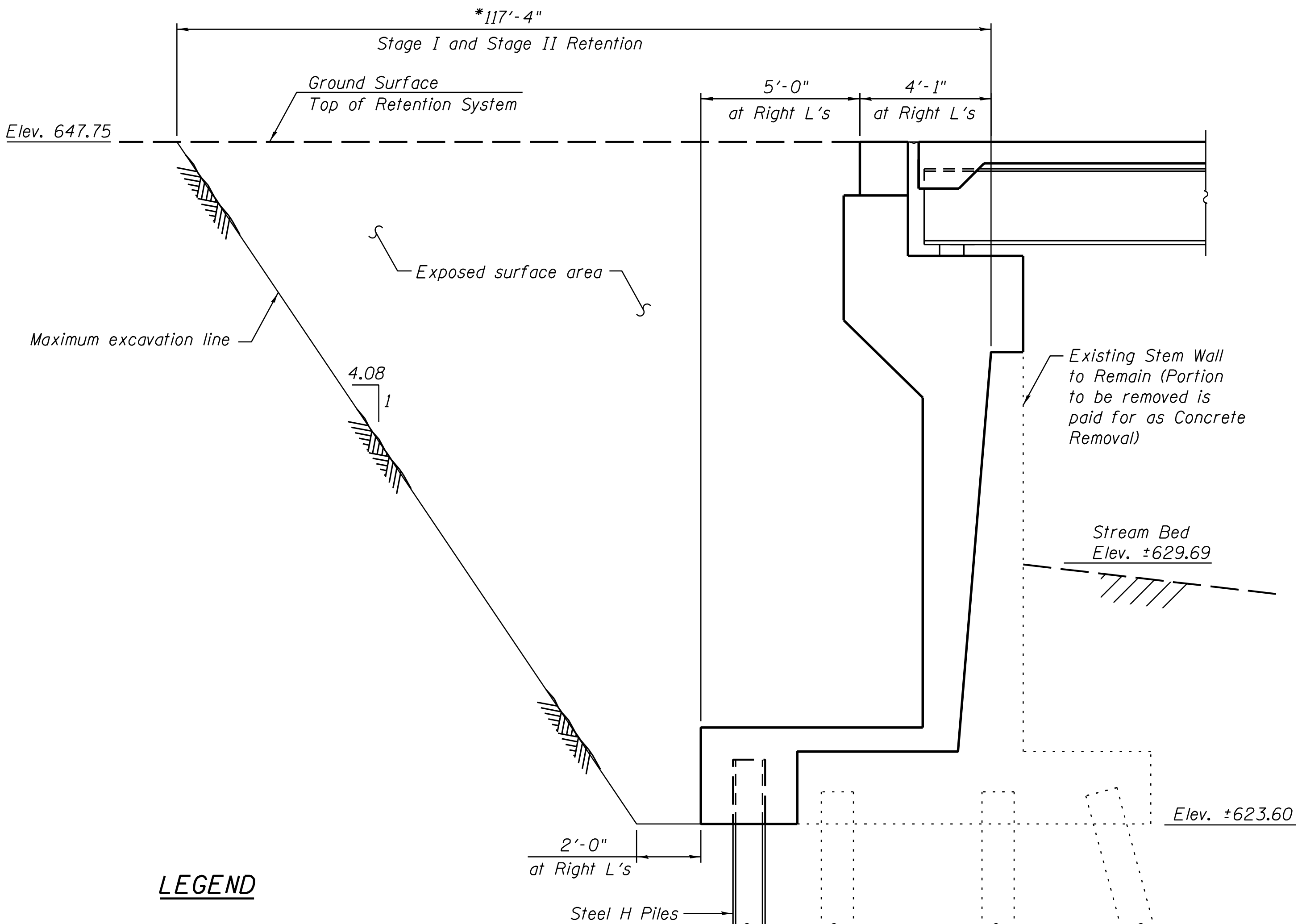
If the Contractor's procedure for existing beam removal and placement of new beams involves placement of cranes or other heavy equipment on existing or new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing or new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats on new beams, the following shall be done: placement and tightening at transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

Commonwealth Edison has raised the overhead transmission lines over the bridge. Contractor to contact Commonwealth Edison before start of construction.

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-002-GD.dgn

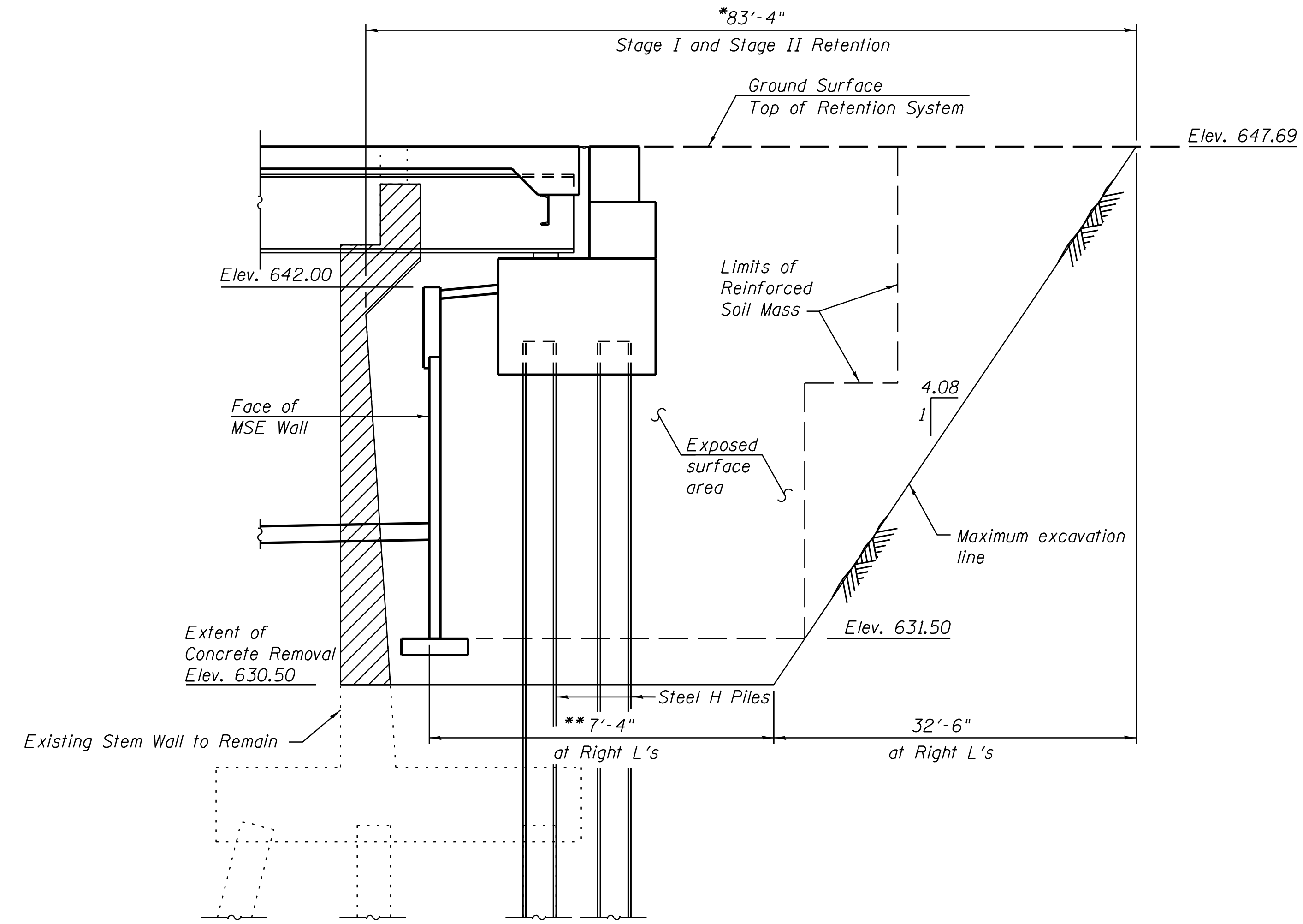
STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DETAILS STRUCTURE NO. 098-0015
		CHECKED - AJS	REVISED		
	PLOT SCALE =	DRAWN - BJF	REVISED		
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 2 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	61
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



LEGEND

Removal of Existing Structures



SOUTH ABUTMENT
TEMPORARY SOIL RETENTION STYSTEM

(Looking West)
(Horizontal Dimensions at Right L's)

NORTH ABUTMENT
TEMPORARY SOIL RETENTION STYSTEM

(Looking West)
(Horizontal Dimensions @ Rt. L's)

* Horizontal dimensions along ℄ Roadway
** Verify Length with MSE Wall Manufacturer

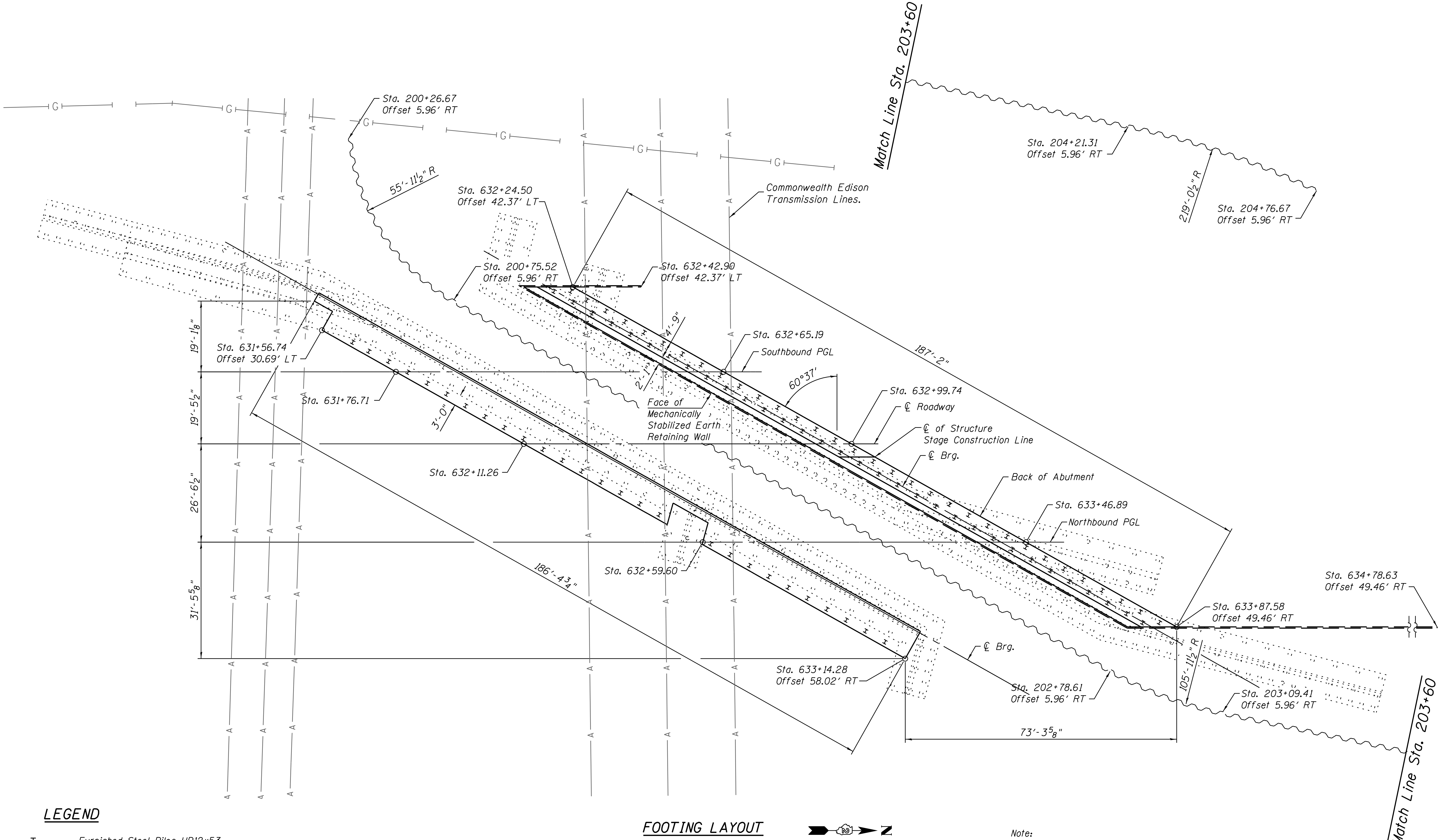
Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-002-GD.dgn

STRAND ASSOCIATES	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf PLOT SCALE = PLOT DATE = 8/14/2014	DESIGNED - RRD CHECKED - AJS DRAWN - BJF CHECKED - RRD	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION DETAILS
STRUCTURE NO. 098-0015
SHEET NO. 3 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	62
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



FOOTING LAYOUT

N

LEGEND

I — Furnished Steel Piles HP12x53

Permanent Steel Sheet Piling

Mechanically Stabilized Earth Retaining Wall

Note:
Refer to this plan with Sheet 22 and 29 of 35.

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-003-SLO.dgn

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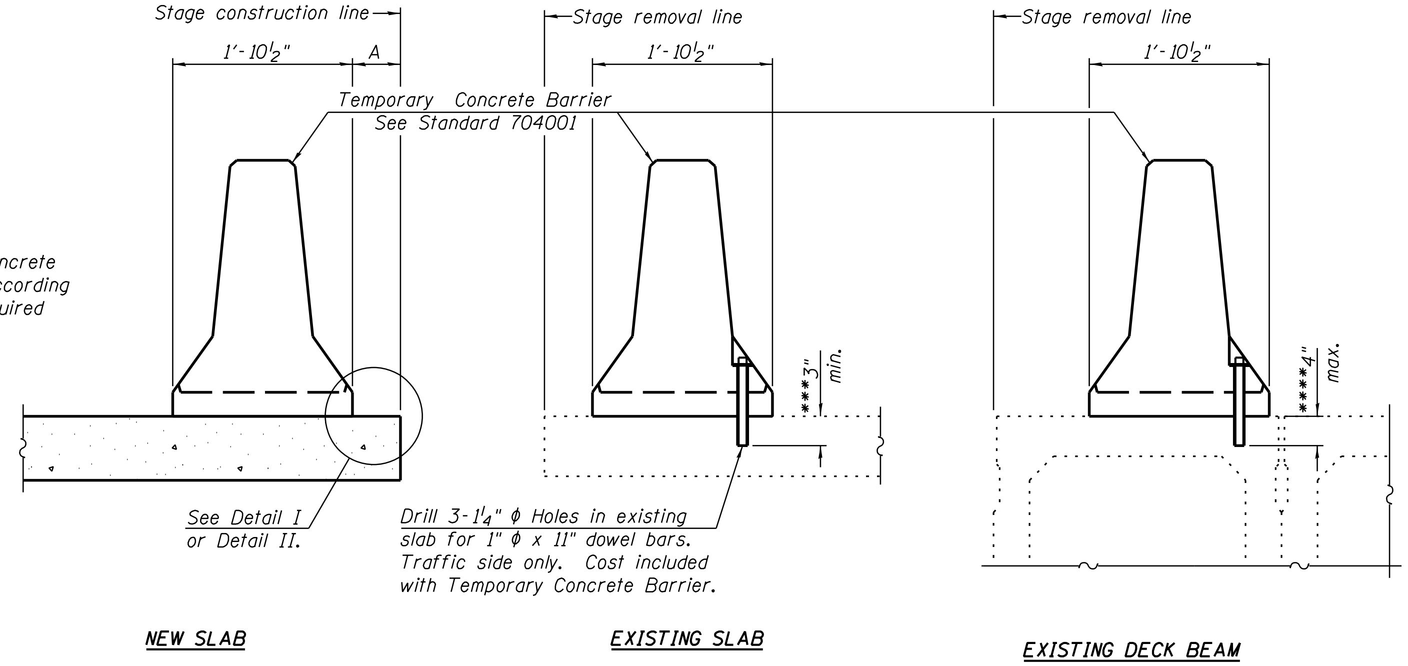
		CHECKED - AJS	REVISED	
	PLOT SCALE =	DRAWN - BJF	REVISED	
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

SUBSTRUCTURE LAYOUT
STRUCTURE NO. 098-0015
SHEET NO. 4 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	63
		CONTRACT NO. 64C17		
		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".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

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

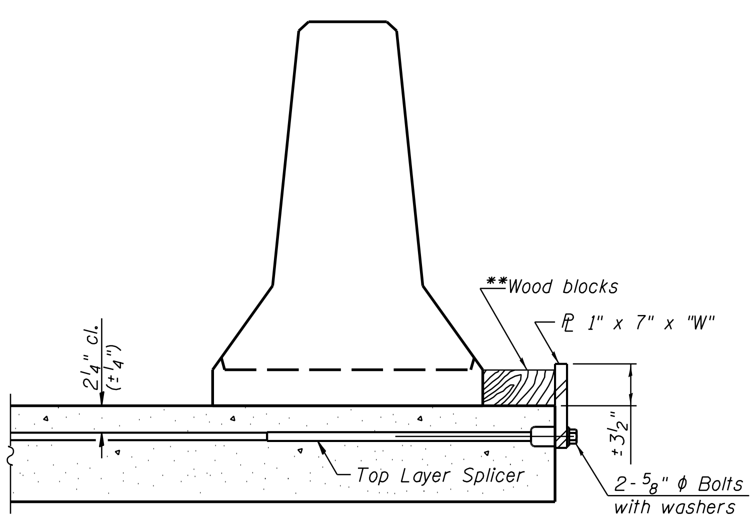
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

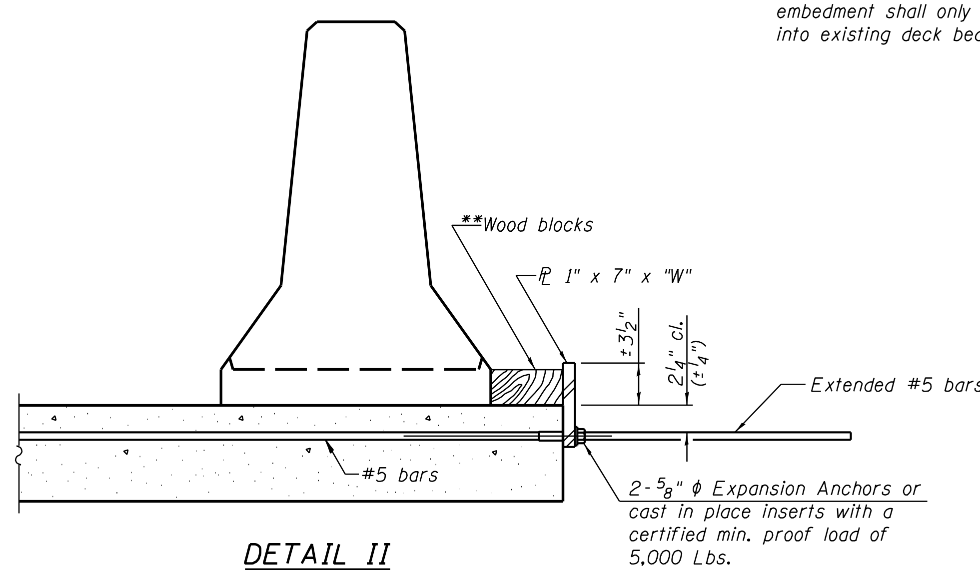
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

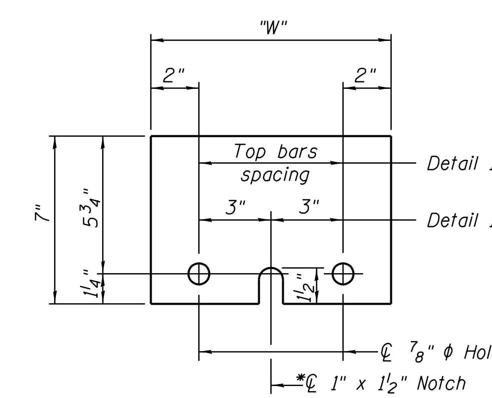
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

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

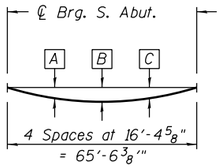
"W" = Top bars spacing + 4"

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-005-TCB.dgn

R-27

7-1-10

STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER STRUCTURE NO. 098-0015	F.A.P. RTE. 646 / SECTION 101 BR-3 / COUNTY WHITESIDE / TOTAL SHEETS 130 / SHEET NO. 64
		CHECKED - AJS	REVISED			CONTRACT NO. 64C17
	PLOT SCALE =	DRAWN - BJF	REVISED			
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 5 OF 35 SHEETS	ILLINOIS FED. AID PROJECT

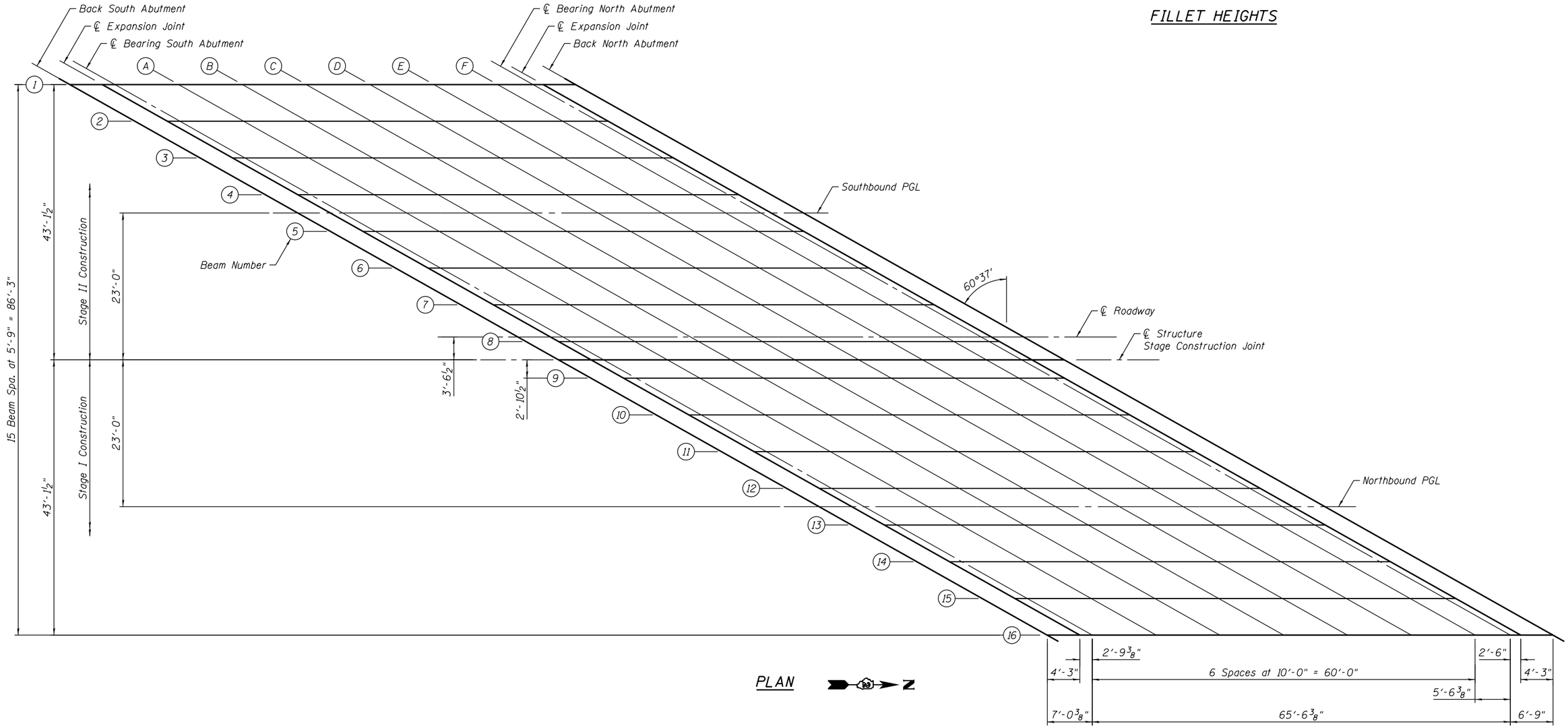


	Beams 1 & 16	Beams 2 - 15
A	1"	1"
B	1 1/2"	1 3/8"
C	1"	1"

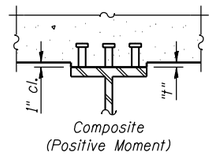
DEAD LOAD DEFLECTION DIAGRAM

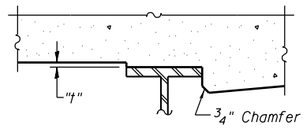
(Includes weight of concrete only.)

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 deflection as shown on sheet 7 and 8.

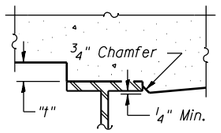


PLAN





At Minimum Fillet



At Maximum Fillet

INTERIOR BEAMS

EXTERIOR BEAMS

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

FILLET HEIGHTS

FILE NAME = s:\pl\6300-6399\6346\025\micros\Sht\Structural Plans\DP98015-64C17-006-TSE.dgn

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	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (1 OF 3)
STRUCTURE NO. 098-0015
SHEET NO. 6 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	65
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

BEAM 1

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+50.14	-39.58	646.69	646.69
CL Joint S. Abut.	631+54.35	-39.58	646.72	646.72
CL Brg. S. Abut.	631+57.17	-39.58	646.74	646.74
A	631+67.17	-39.58	646.79	646.85
B	631+77.17	-39.58	646.84	646.94
C	631+87.17	-39.58	646.88	647.00
D	631+97.17	-39.58	646.92	647.03
E	632+07.17	-39.58	646.94	647.03
F	632+17.17	-39.58	646.97	647.00
CL Brg. N. Abut.	632+22.70	-39.58	646.97	646.97
CL Joint N. Abut.	632+25.25	-39.58	646.98	646.98
Bk. Of N. Abut.	632+29.45	-39.58	646.98	646.98

BEAM 2

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+60.36	-33.83	646.87	646.87
CL Joint S. Abut.	631+64.56	-33.83	646.89	646.89
CL Brg. S. Abut.	631+67.38	-33.83	646.91	646.91
A	631+77.38	-33.83	646.96	647.01
B	631+87.38	-33.83	647.00	647.09
C	631+97.38	-33.83	647.03	647.14
D	632+07.38	-33.83	647.06	647.17
E	632+17.38	-33.83	647.08	647.16
F	632+27.38	-33.83	647.10	647.13
CL Brg. N. Abut.	632+32.91	-33.83	647.10	647.10
CL Joint N. Abut.	632+35.46	-33.83	647.10	647.10
Bk. Of N. Abut.	632+39.67	-33.83	647.11	647.11

BEAM 3

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+70.57	-28.08	647.04	647.04
CL Joint S. Abut.	631+74.77	-28.08	647.06	647.06
CL Brg. S. Abut.	631+77.59	-28.08	647.07	647.07
A	631+87.59	-28.08	647.11	647.16
B	631+97.59	-28.08	647.15	647.24
C	632+07.59	-28.08	647.17	647.28
D	632+17.59	-28.08	647.20	647.30
E	632+27.59	-28.08	647.21	647.29
F	632+37.59	-28.08	647.22	647.25
CL Brg. N. Abut.	632+43.13	-28.08	647.22	647.22
CL Joint N. Abut.	632+45.67	-28.08	647.22	647.22
Bk. Of N. Abut.	632+49.88	-28.08	647.22	647.22

BEAM 4

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+80.78	-22.33	647.20	647.20
CL Joint S. Abut.	631+84.98	-22.33	647.22	647.22
CL Brg. S. Abut.	631+87.81	-22.33	647.23	647.23
A	631+97.81	-22.33	647.26	647.31
B	632+07.81	-22.33	647.29	647.38
C	632+17.81	-22.33	647.31	647.42
D	632+27.81	-22.33	647.33	647.43
E	632+37.81	-22.33	647.34	647.41
F	632+47.81	-22.33	647.34	647.37
CL Brg. N. Abut.	632+53.34	-22.33	647.34	647.34
CL Joint N. Abut.	632+55.89	-22.33	647.33	647.33
Bk. Of N. Abut.	632+60.09	-22.33	647.33	647.33

SOUTHBOUND PGL

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+85.88	-19.45	647.28	647.28
CL Joint S. Abut.	631+90.09	-19.45	647.29	647.29
CL Brg. S. Abut.	631+92.91	-19.45	647.30	647.30
A	632+02.91	-19.45	647.34	647.39
B	632+12.91	-19.45	647.36	647.45
C	632+22.91	-19.45	647.38	647.49
D	632+32.91	-19.45	647.39	647.49
E	632+42.91	-19.45	647.39	647.47
F	632+52.91	-19.45	647.39	647.42
CL Brg. N. Abut.	632+58.44	-19.45	647.39	647.39
CL Joint N. Abut.	632+60.99	-19.45	647.39	647.39
Bk. Of N. Abut.	632+65.19	-19.45	647.38	647.38

BEAM 5

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	631+90.99	-16.58	647.35	647.35
CL Joint S. Abut.	631+95.19	-16.58	647.37	647.37
CL Brg. S. Abut.	631+98.02	-16.58	647.38	647.38
A	632+08.02	-16.58	647.41	647.46
B	632+18.02	-16.58	647.43	647.52
C	632+28.02	-16.58	647.44	647.55
D	632+38.02	-16.58	647.45	647.55
E	632+48.02	-16.58	647.45	647.53
F	632+58.02	-16.58	647.45	647.48
CL Brg. N. Abut.	632+63.55	-16.58	647.44	647.44
CL Joint N. Abut.	632+66.10	-16.58	647.44	647.44
Bk. Of N. Abut.	632+70.30	-16.58	647.43	647.43

BEAM 6

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+01.20	-10.83	647.50	647.50
CL Joint S. Abut.	632+05.41	-10.83	647.51	647.51
CL Brg. S. Abut.	632+08.23	-10.83	647.52	647.52
A	632+18.23	-10.83	647.54	647.59
B	632+28.23	-10.83	647.56	647.65
C	632+38.23	-10.83	647.57	647.67
D	632+48.23	-10.83	647.57	647.67
E	632+58.23	-10.83	647.56	647.64
F	632+68.23	-10.83	647.55	647.58
CL Brg. N. Abut.	632+73.76	-10.83	647.54	647.54
CL Joint N. Abut.	632+76.31	-10.83	647.54	647.54
Bk. Of N. Abut.	632+80.51	-10.83	647.53	647.53

BEAM 7

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+11.41	-5.08	647.64	647.64
CL Joint S. Abut.	632+15.62	-5.08	647.65	647.65
CL Brg. S. Abut.	632+18.44	-5.08	647.66	647.66
A	632+28.44	-5.08	647.67	647.72
B	632+38.44	-5.08	647.68	647.77
C	632+48.44	-5.08	647.68	647.79
D	632+58.44	-5.08	647.68	647.78
E	632+68.44	-5.08	647.67	647.74
F	632+78.44	-5.08	647.65	647.68
CL Brg. N. Abut.	632+83.97	-5.08	647.63	647.63
CL Joint N. Abut.	632+86.52	-5.08	647.63	647.63
Bk. Of N. Abut.	632+90.72	-5.08	647.62	647.62

CENTERLINE ROADWAY

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+20.43	0.00	647.76	647.76
CL Joint S. Abut.	632+24.63	0.00	647.77	647.77
CL Brg. S. Abut.	632+27.45	0.00	647.77	647.77
A	632+37.45	0.00	647.78	647.83
B	632+47.45	0.00	647.78	647.87
C	632+57.45	0.00	647.78	647.89
D	632+67.45	0.00	647.77	647.87
E	632+77.45	0.00	647.75	647.83
F	632+87.45	0.00	647.73	647.76
CL Brg. N. Abut.	632+92.99	0.00	647.71	647.71
CL Joint N. Abut.	632+95.53	0.00	647.70	647.70
Bk. Of N. Abut.	632+99.74	0.00	647.69	647.69

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-006-TSE.dgn

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PLOT SCALE =		DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014		CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (2 OF 3)
STRUCTURE NO. 098–0015

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	66

CONTRACT NO. 64C17

ILLINOIS FED. AID PROJECT

BEAM 8

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+21.63	0.68	647.78	647.78
CL Joint S. Abut.	632+25.83	0.68	647.78	647.78
CL Brg. S. Abut.	632+28.65	0.68	647.79	647.79
A	632+38.65	0.68	647.80	647.85
B	632+48.65	0.68	647.80	647.89
C	632+58.65	0.68	647.79	647.90
D	632+68.65	0.68	647.78	647.88
E	632+78.65	0.68	647.76	647.84
F	632+88.65	0.68	647.74	647.77
CL Brg. N. Abut.	632+94.18	0.68	647.72	647.72
CL Joint N. Abut.	632+96.73	0.68	647.71	647.71
Bk. Of N. Abut.	633+00.94	0.68	647.70	647.70

STAGE CONSTRUCTION LINE/ ℄ STRUCTURE

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+26.73	3.55	647.84	647.84
CL Joint S. Abut.	632+30.93	3.55	647.85	647.85
CL Brg. S. Abut.	632+33.76	3.55	647.85	647.85
A	632+43.76	3.55	647.85	647.91
B	632+53.76	3.55	647.85	647.94
C	632+63.76	3.55	647.84	647.95
D	632+73.76	3.55	647.83	647.93
E	632+83.76	3.55	647.81	647.88
F	632+93.76	3.55	647.78	647.81
CL Brg. N. Abut.	632+99.29	3.55	647.76	647.76
CL Joint N. Abut.	633+01.84	3.55	647.75	647.75
Bk. Of N. Abut.	633+06.04	3.55	647.74	647.74

BEAM 9

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+31.84	6.43	647.79	647.79
CL Joint S. Abut.	632+36.04	6.43	647.79	647.79
CL Brg. S. Abut.	632+38.86	6.43	647.80	647.80
A	632+48.86	6.43	647.80	647.85
B	632+58.86	6.43	647.79	647.88
C	632+68.86	6.43	647.78	647.89
D	632+78.86	6.43	647.76	647.86
E	632+88.86	6.43	647.74	647.81
F	632+98.86	6.43	647.70	647.73
CL Brg. N. Abut.	633+04.40	6.43	647.68	647.68
CL Joint N. Abut.	633+06.94	6.43	647.67	647.67
Bk. Of N. Abut.	633+11.15	6.43	647.66	647.66

BEAM 10

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+42.05	12.18	647.68	647.68
CL Joint S. Abut.	632+46.25	12.18	647.68	647.68
CL Brg. S. Abut.	632+49.08	12.18	647.68	647.68
A	632+59.08	12.18	647.68	647.73
B	632+69.08	12.18	647.66	647.75
C	632+79.08	12.18	647.65	647.75
D	632+89.08	12.18	647.62	647.72
E	632+99.08	12.18	647.59	647.66
F	633+09.08	12.18	647.55	647.58
CL Brg. N. Abut.	633+14.61	12.18	647.53	647.53
CL Joint N. Abut.	633+17.15	12.18	647.52	647.52
Bk. Of N. Abut.	633+21.36	12.18	647.50	647.50

BEAM 11

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+52.26	17.93	647.57	647.57
CL Joint S. Abut.	632+56.46	17.93	647.56	647.56
CL Brg. S. Abut.	632+59.29	17.93	647.56	647.56
A	632+69.29	17.93	647.55	647.60
B	632+79.29	17.93	647.53	647.62
C	632+89.29	17.93	647.51	647.61
D	632+99.29	17.93	647.47	647.58
E	633+09.29	17.93	647.44	647.51
F	633+19.29	17.93	647.39	647.42
CL Brg. N. Abut.	633+24.82	17.93	647.36	647.36
CL Joint N. Abut.	633+27.37	17.93	647.35	647.35
Bk. Of N. Abut.	633+31.57	17.93	647.33	647.33

BEAM 12

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+62.47	23.68	647.44	647.44
CL Joint S. Abut.	632+66.68	23.68	647.44	647.44
CL Brg. S. Abut.	632+69.50	23.68	647.43	647.43
A	632+79.50	23.68	647.41	647.47
B	632+89.50	23.68	647.39	647.48
C	632+99.50	23.68	647.36	647.47
D	633+09.50	23.68	647.32	647.42
E	633+19.50	23.68	647.27	647.35
F	633+29.50	23.68	647.22	647.25
CL Brg. N. Abut.	633+35.03	23.68	647.19	647.19
CL Joint N. Abut.	633+37.58	23.68	647.18	647.18
Bk. Of N. Abut.	633+41.78	23.68	647.15	647.15

NORTHBOUND PGL

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+67.58	26.55	647.38	647.38
CL Joint S. Abut.	632+71.78	26.55	647.37	647.37
CL Brg. S. Abut.	632+74.60	26.55	647.37	647.37
A	632+84.60	26.55	647.35	647.40
B	632+94.60	26.55	647.32	647.41
C	633+04.60	26.55	647.28	647.39
D	633+14.60	26.55	647.24	647.34
E	633+24.60	26.55	647.19	647.27
F	633+34.60	26.55	647.14	647.17
CL Brg. N. Abut.	633+40.14	26.55	647.10	647.10
CL Joint N. Abut.	633+42.68	26.55	647.09	647.09
Bk. Of N. Abut.	633+46.89	26.55	647.06	647.06

BEAM 13

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+72.68	29.43	647.31	647.31
CL Joint S. Abut.	632+76.89	29.43	647.31	647.31
CL Brg. S. Abut.	632+79.71	29.43	647.30	647.30
A	632+89.71	29.43	647.27	647.32
B	632+99.71	29.43	647.24	647.33
C	633+09.71	29.43	647.20	647.31
D	633+19.71	29.43	647.16	647.26
E	633+29.71	29.43	647.11	647.18
F	633+39.71	29.43	647.05	647.08
CL Brg. N. Abut.	633+45.24	29.43	647.01	647.01
CL Joint N. Abut.	633+47.79	29.43	647.00	647.00
Bk. Of N. Abut.	633+51.99	29.43	646.97	646.97

BEAM 14

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+82.89	35.18	647.18	647.18
CL Joint S. Abut.	632+87.10	35.18	647.17	647.17
CL Brg. S. Abut.	632+89.92	35.18	647.16	647.16
A	632+99.92	35.18	647.13	647.18
B	633+09.92	35.18	647.09	647.18
C	633+19.92	35.18	647.04	647.15
D	633+29.92	35.18	646.99	647.09
E	633+39.92	35.18	646.93	647.01
F	633+49.92	35.18	646.87	646.90
CL Brg. N. Abut.	633+55.45	35.18	646.83	646.83
CL Joint N. Abut.	633+58.00	35.18	646.81	646.81
Bk. Of N. Abut.	633+62.20	35.18	646.78	646.78

BEAM 15

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	632+93.11	40.93	647.03	647.03
CL Joint S. Abut.	632+97.31	40.93	647.02	647.02
CL Brg. S. Abut.	633+00.13	40.93	647.01	647.01
A	633+10.13	40.93	646.97	647.02
B	633+20.13	40.93	646.93	647.02
C	633+30.13	40.93	646.87	646.98
D	633+40.13	40.93	646.82	646.92
E	633+50.13	40.93	646.75	646.83
F	633+60.13	40.93	646.68	646.71
CL Brg. N. Abut.	633+65.67	40.93	646.64	646.64
CL Joint N. Abut.	633+68.21	40.93	646.62	646.62
Bk. Of N. Abut.	633+72.42	40.93	646.58	646.58

BEAM 16

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of S. Abut.	633+03.32	46.68	646.88	646.88
CL Joint S. Abut.	633+07.52	46.68	646.87	646.87
CL Brg. S. Abut.	633+10.35	46.68	646.86	646.86
A	633+20.35	46.68	646.81	646.87
B	633+30.35	46.68	646.76	646.86
C	633+40.35	46.68	646.70	646.82
D	633+50.35	46.68	646.63	646.75
E	633+60.35	46.68	646.56	646.65
F	633+70.35	46.68	646.49	646.52
CL Brg. N. Abut.	633+75.88	46.68	646.44	646.44
CL Joint N. Abut.	633+78.42	46.68	646.42	646.42
Bk. Of N. Abut.	633+82.63	46.68	646.38	646.38

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (3 OF 3)
STRUCTURE NO. 098-0015
SHEET NO. 8 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	67
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+17.83	-41.45	646.42
A1	631+27.83	-41.45	646.50
A2	631+37.83	-41.45	646.58
N. End South Appr. Slab	631+47.83	-41.45	646.64

WEST EDGE OF SOUTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+35.59	-31.45	646.76
A1	631+45.59	-31.45	646.83
A2	631+55.59	-31.45	646.89
N. End South Appr. Slab	631+65.59	-31.45	646.95

SOUTHBOUND PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+56.90	-19.45	647.14
A1	631+66.90	-19.45	647.19
A2	631+76.90	-19.45	647.24
N. End South Appr. Slab	631+86.90	-19.45	647.28

EAST EDGE OF SOUTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+78.22	-7.45	647.49
A1	631+88.22	-7.45	647.53
A2	631+98.22	-7.45	647.56
N. End South Appr. Slab	632+08.22	-7.45	647.59

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+91.45	0.00	647.69
A1	632+01.45	0.00	647.72
A2	632+11.45	0.00	647.75
N. End South Appr. Slab	632+21.45	0.00	647.76

CENTERLINE OF STRUCTURE/ STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	631+97.75	3.55	647.78
A1	632+07.75	3.55	647.81
A2	632+17.75	3.55	647.83
N. End South Appr. Slab	632+27.75	3.55	647.84

WEST EDGE OF NORTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	632+17.29	14.55	647.61
A1	632+27.29	14.55	647.62
A2	632+37.29	14.55	647.63
N. End South Appr. Slab	632+47.29	14.55	647.63

NORTHBOUND PGL

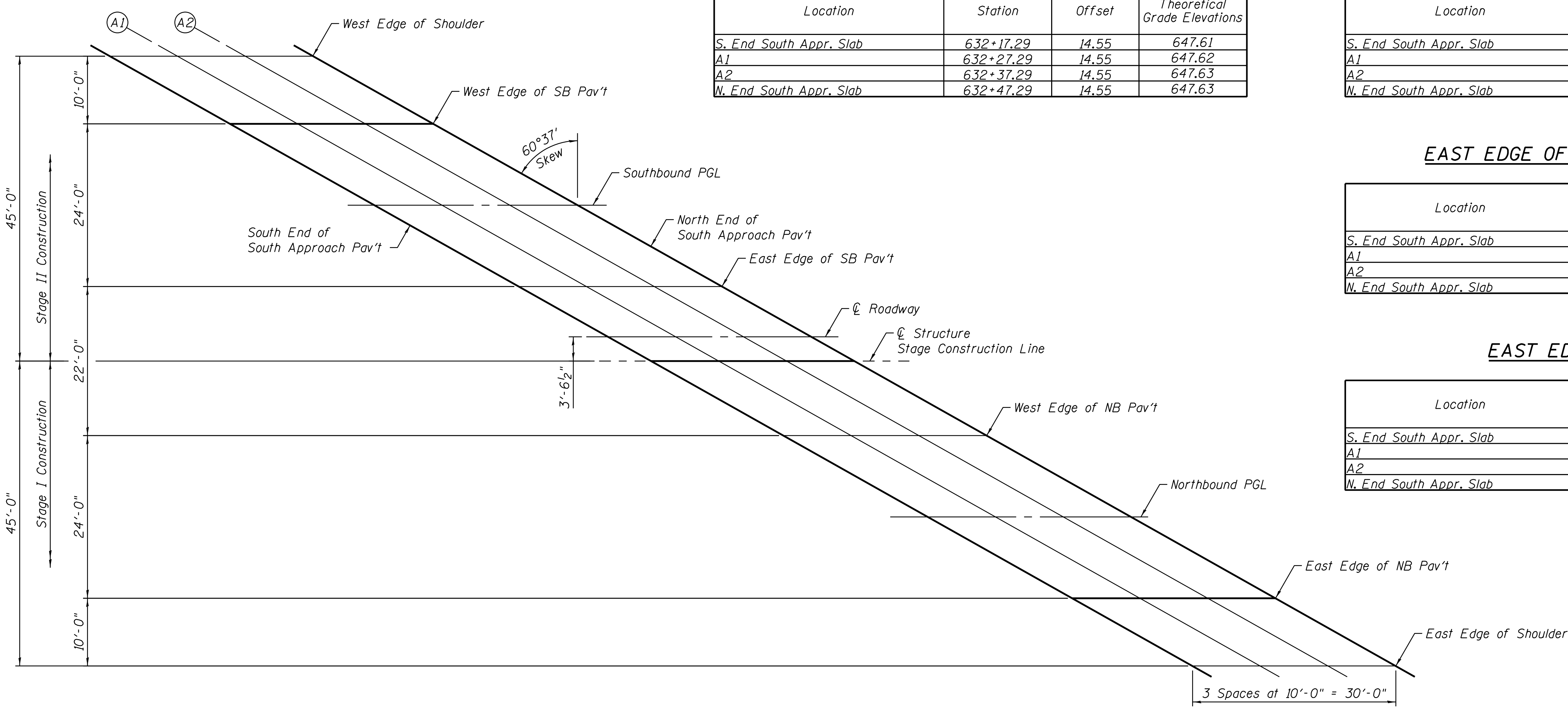
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	632+38.60	26.55	647.39
A1	632+48.60	26.55	647.39
A2	632+58.60	26.55	647.39
N. End South Appr. Slab	632+68.60	26.55	647.38

EAST EDGE OF NORTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	632+59.91	38.55	647.15
A1	632+69.91	38.55	647.14
A2	632+79.91	38.55	647.12
N. End South Appr. Slab	632+89.91	38.55	647.09

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	632+77.67	48.55	646.92
A1	632+87.67	48.55	646.90
A2	632+97.67	48.55	646.87
N. End South Appr. Slab	633+07.67	48.55	646.83



PLAN

South Approach

N

STRAND ASSOCIATES®	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	
			CHECKED - AJS	REVISED	
		PLOT SCALE =	DRAWN - BJF	REVISED	
		PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 098-0015
SHEET NO. 9 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	68
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-009-ASE.dgn

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	632+25.11	-41.45	646.94
A3	632+35.11	-41.45	646.95
A4	632+45.11	-41.45	646.95
N. End North Appr. Slab	632+55.11	-41.45	646.95

WEST EDGE OF SOUTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	632+42.86	-31.45	647.15
A3	632+52.86	-31.45	647.15
A4	632+62.86	-31.45	647.14
N. End North Appr. Slab	632+72.86	-31.45	647.13

SOUTHBOUND PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	632+64.18	-19.45	647.38
A3	632+74.18	-19.45	647.37
A4	632+84.18	-19.45	647.35
N. End North Appr. Slab	632+94.18	-19.45	647.32

EAST EDGE OF SOUTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	632+85.49	-7.45	647.58
A3	632+95.49	-7.45	647.55
A4	633+05.49	-7.45	647.52
N. End North Appr. Slab	633+15.49	-7.45	647.48

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	632+98.72	0.00	647.69
A3	633+08.72	0.00	647.65
A4	633+18.72	0.00	647.61
N. End North Appr. Slab	633+28.72	0.00	647.56

CENTERLINE OF STRUCTURE/ STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	633+05.02	3.55	647.74
A3	633+15.02	3.55	647.70
A4	633+25.02	3.55	647.65
N. End North Appr. Slab	633+35.02	3.55	647.59

WEST EDGE OF NORTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	633+24.56	14.55	647.43
A3	633+34.56	14.55	647.38
A4	633+44.56	14.55	647.32
N. End North Appr. Slab	633+54.56	14.55	647.25

NORTHBOUND PGL

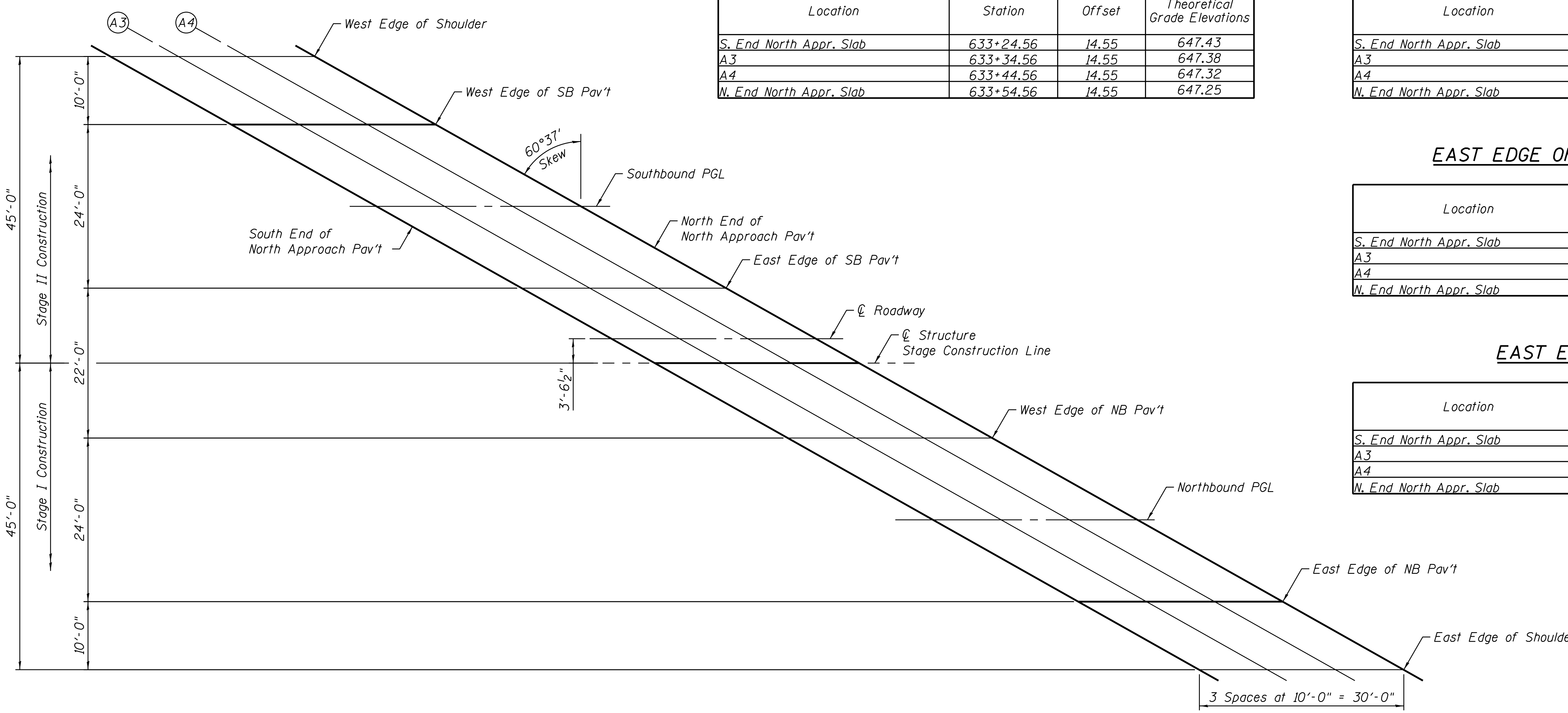
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	633+45.87	26.55	647.07
A3	633+55.87	26.55	647.00
A4	633+65.87	26.55	646.92
N. End North Appr. Slab	633+75.87	26.55	646.84

EAST EDGE OF NORTHBOUND PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	633+67.18	38.55	646.67
A3	633+77.18	38.55	646.59
A4	633+87.18	38.55	646.50
N. End North Appr. Slab	633+97.18	38.55	646.41

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	633+84.94	48.55	646.32
A3	633+94.94	48.55	646.23
A4	634+04.94	48.55	646.13
N. End North Appr. Slab	634+14.94	48.55	646.02



PLAN
North Approach

N

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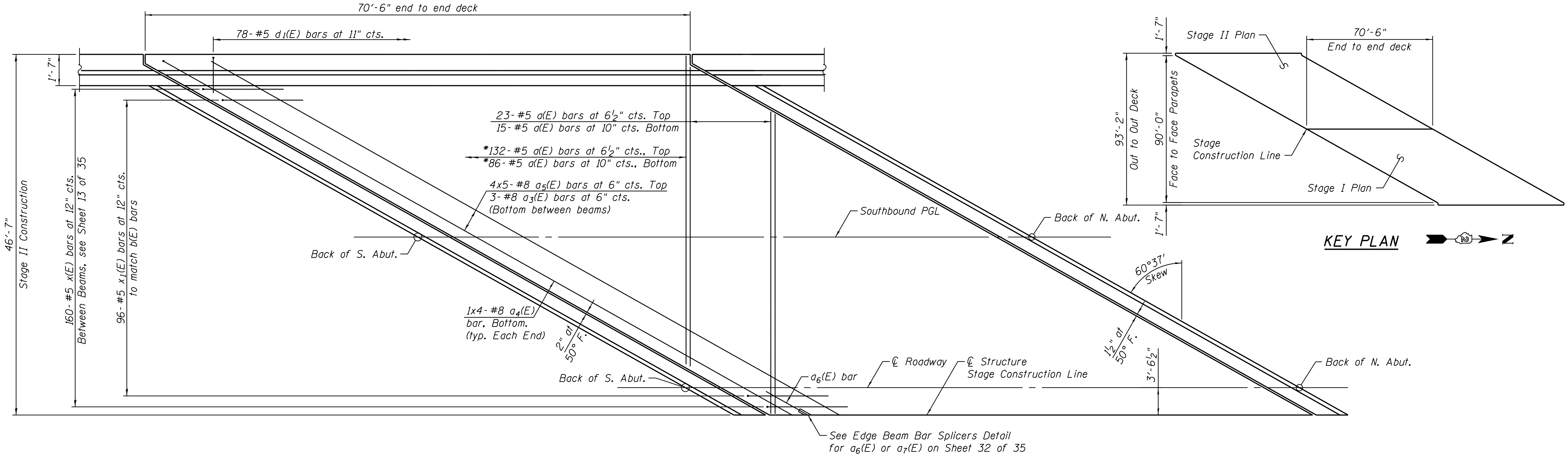
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 098-0015
SHEET NO. 10 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	69
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

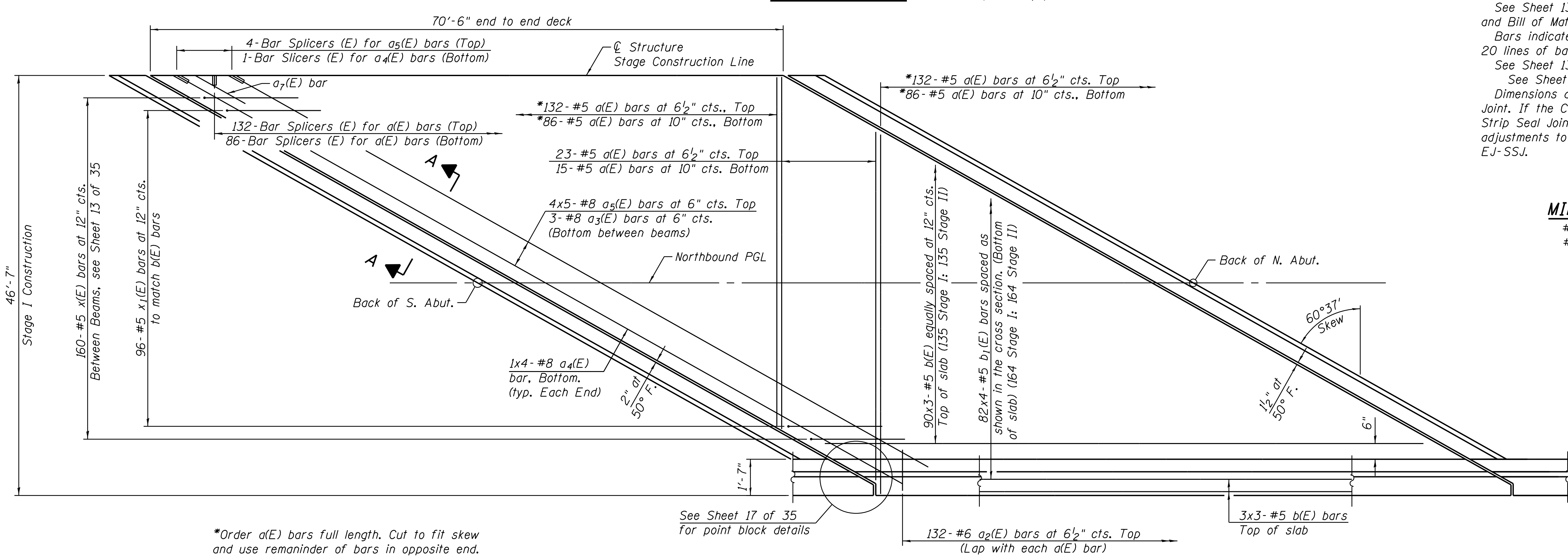


STAGE II PLAN

KEY PLAN

Notes:
See Sheet 13 of 35 for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 13 of 35 for parapet reinforcement.
See Sheet 13 of 35 for Section A-A.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.

MIN. BAR LAP
#5 bar = 3'-3"
#8 bar = 6'-9"

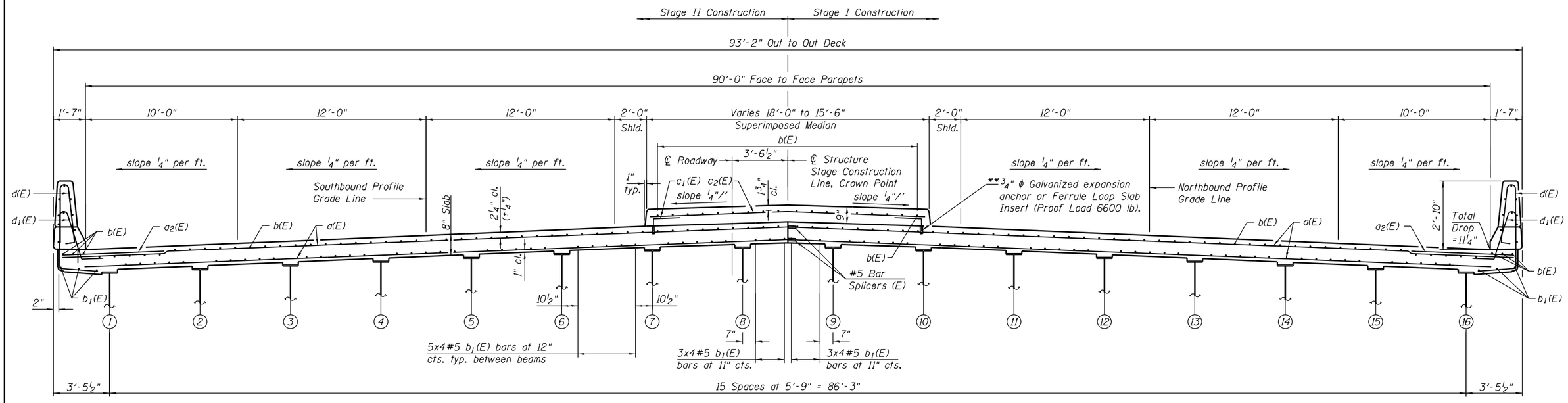


*Order a(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

STAGE I PLAN

FILE NAME = st\jol\6300--6399\6346\025\micros\Sht\Structural Plans\098-0015-64C17-011-SUP.dgn

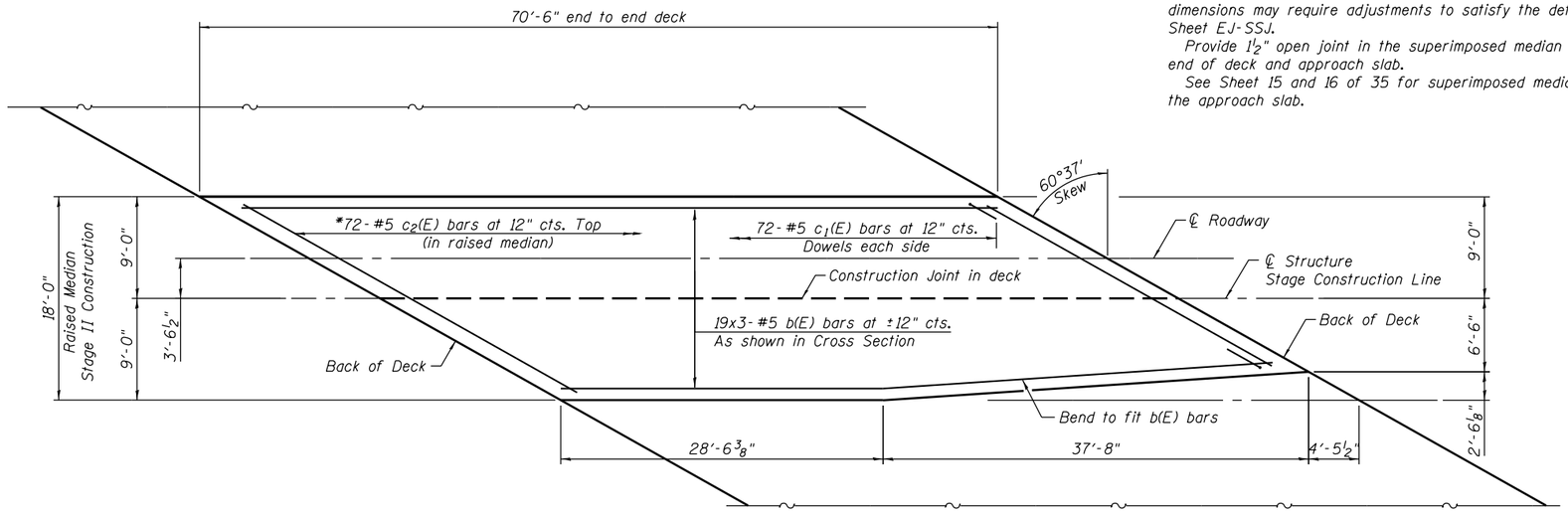
STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE (1 OF 2) STRUCTURE NO. 098-0015	F.A.P. RTE. 646; SECTION 101 BR-3; COUNTY WHITESIDE; TOTAL SHEETS 130; SHEET NO. 70
		CHECKED - AJS	REVISED			CONTRACT NO. 64C17
	PLOT SCALE =	DRAWN - BJF	REVISED		SHEET NO. 11 OF 35 SHEETS	ILLINOIS FED. AID PROJECT
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED			



**The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

CROSS SECTION
(Looking North)

Note:
Median shall be constructed in Stage II Construction.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.
Provide 1½" open joint in the superimposed median between the end of deck and approach slab.
See Sheet 15 and 16 of 35 for superimposed median details on the approach slab.



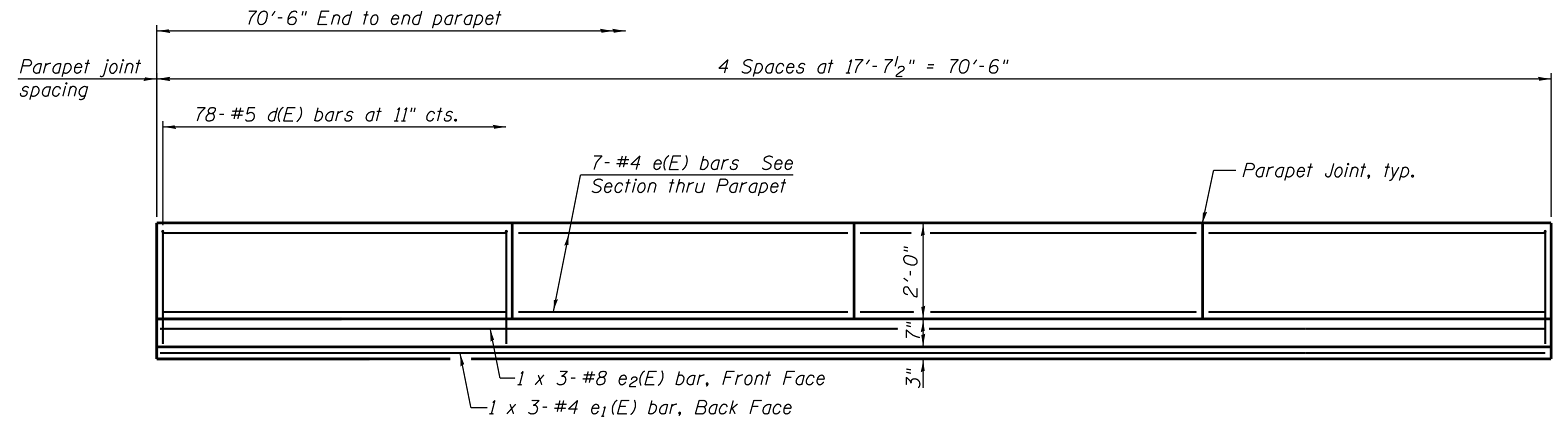
*Cut to fit $c_2(E)$ bars in skew

SUPERIMPOSED MEDIAN PLAN

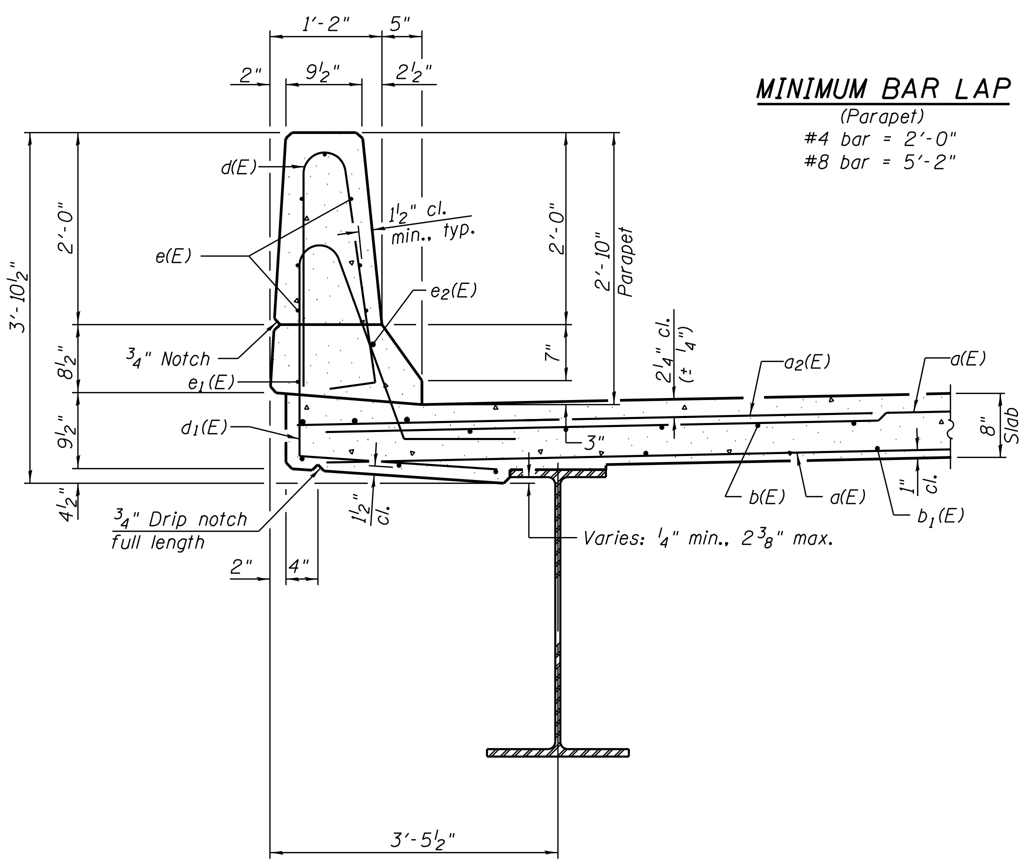
MIN. BAR LAP
#5 Bar = 3'-3"

FILE NAME = s:\pl\6300-6399\6346\025\micros\Sht\Structural Plans\P980015-64C17-011-SUP.dgn

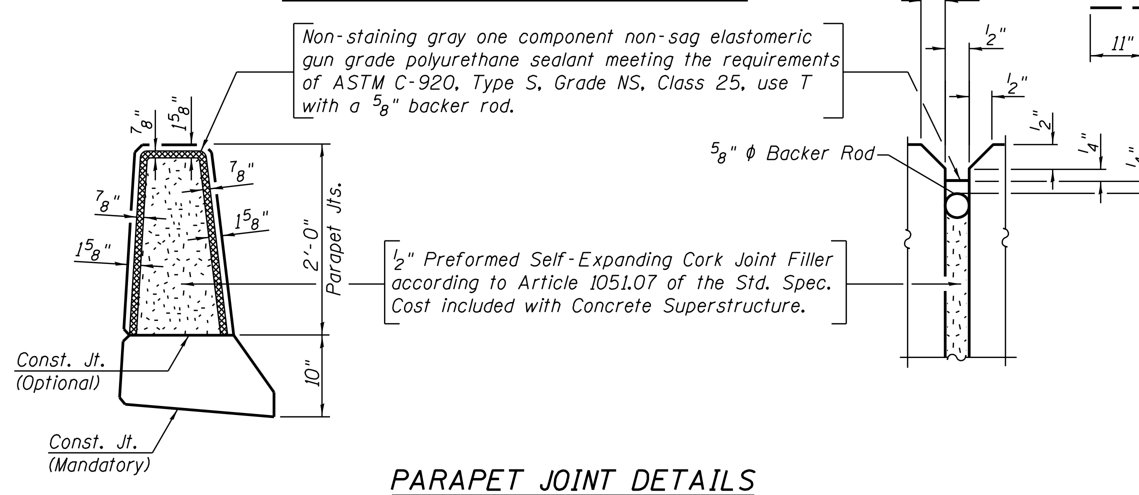
STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE (2 OF 2) STRUCTURE NO. 098-0015	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AJS	REVISED			646	101 BR-3	WHITESIDE	130	71
	PLOT SCALE =	DRAWN - BJF	REVISED					CONTRACT NO. 64C17		
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 12 OF 35 SHEETS			ILLINOIS FED. AID PROJECT		



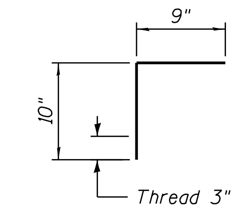
INSIDE ELEVATION OF PARAPET



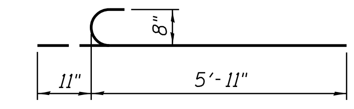
SECTION THRU PARAPET



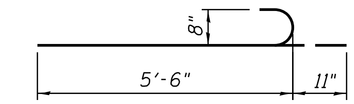
PARAPET JOINT DETAILS



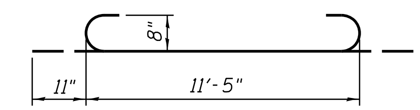
BAR c1(E)



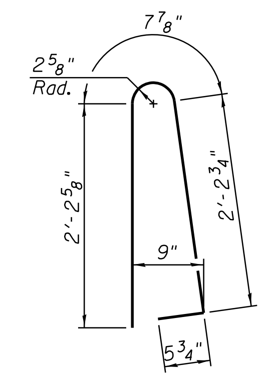
a6(E) BAR



a7(E) BAR



a3(E) BAR

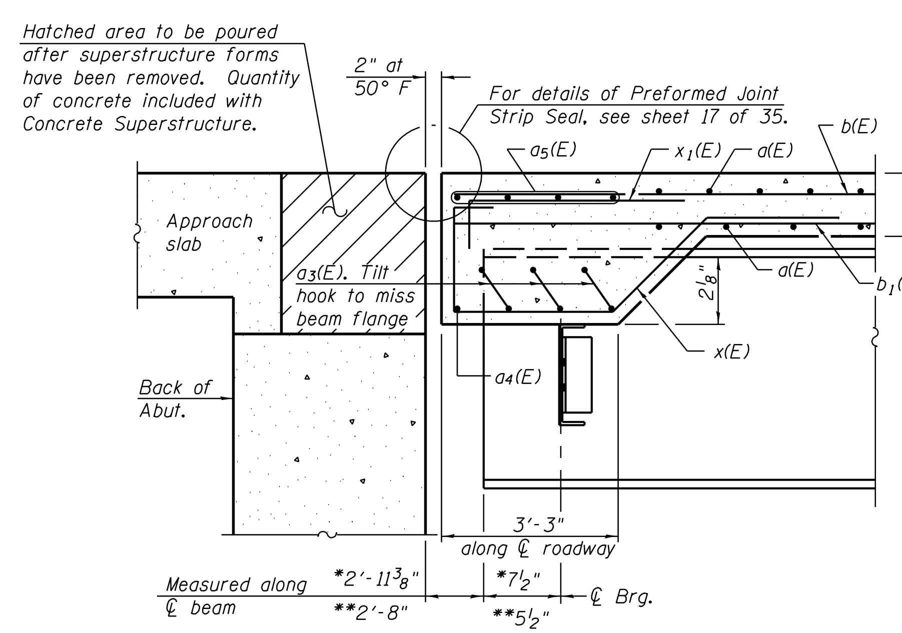


BAR d(E)

SUPERSTRUCTURE BILL OF MATERIAL

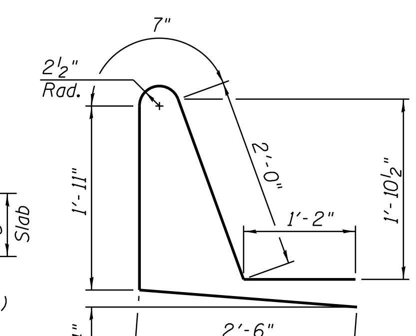
Bar	No.	Size	Length	Shape
a(E)	512	#5	39'-5"	
a2(E)	264	#6	6'-6"	
a3(E)	84	#8	13'-3"	
a4(E)	16	#8	28'-9"	
a5(E)	80	#5	21'-11"	
a6(E)	3	#5	6'-10"	
a7(E)	3	#5	6'-5"	
b(E)	345	#5	25'-8"	
b1(E)	328	#5	20'-2"	
c1(E)	144	#5	1'-7"	
c2(E)	72	#5	35'-8"	
d(E)	156	#5	5'-7"	
d1(E)	156	#5	8'-2"	
e(E)	56	#4	17'-3"	
e1(E)	6	#4	25'-0"	
e2(E)	6	#8	27'-0"	
x(E)	320	#5	7'-11"	
x1(E)	192	#5	4'-1"	
Concrete Superstructure			Cu. Yd.	260
Reinforcement Bars, Epoxy Coated			Pound	55,600

Bars indicated thus 1 x3 - #8 etc. indicates 1 line of bars with 3 lengths per line.

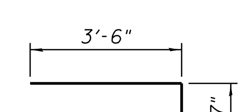


SECTION A-A

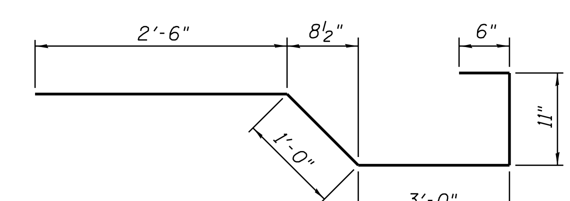
* Along South Abutment.
**Along North Abutment.



BAR d1(E)



BAR x1(E)



BAR x(E)

STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED
		CHECKED - AJS	REVISED
	PLOT SCALE =	DRAWN - BJF	REVISED
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 098-0015

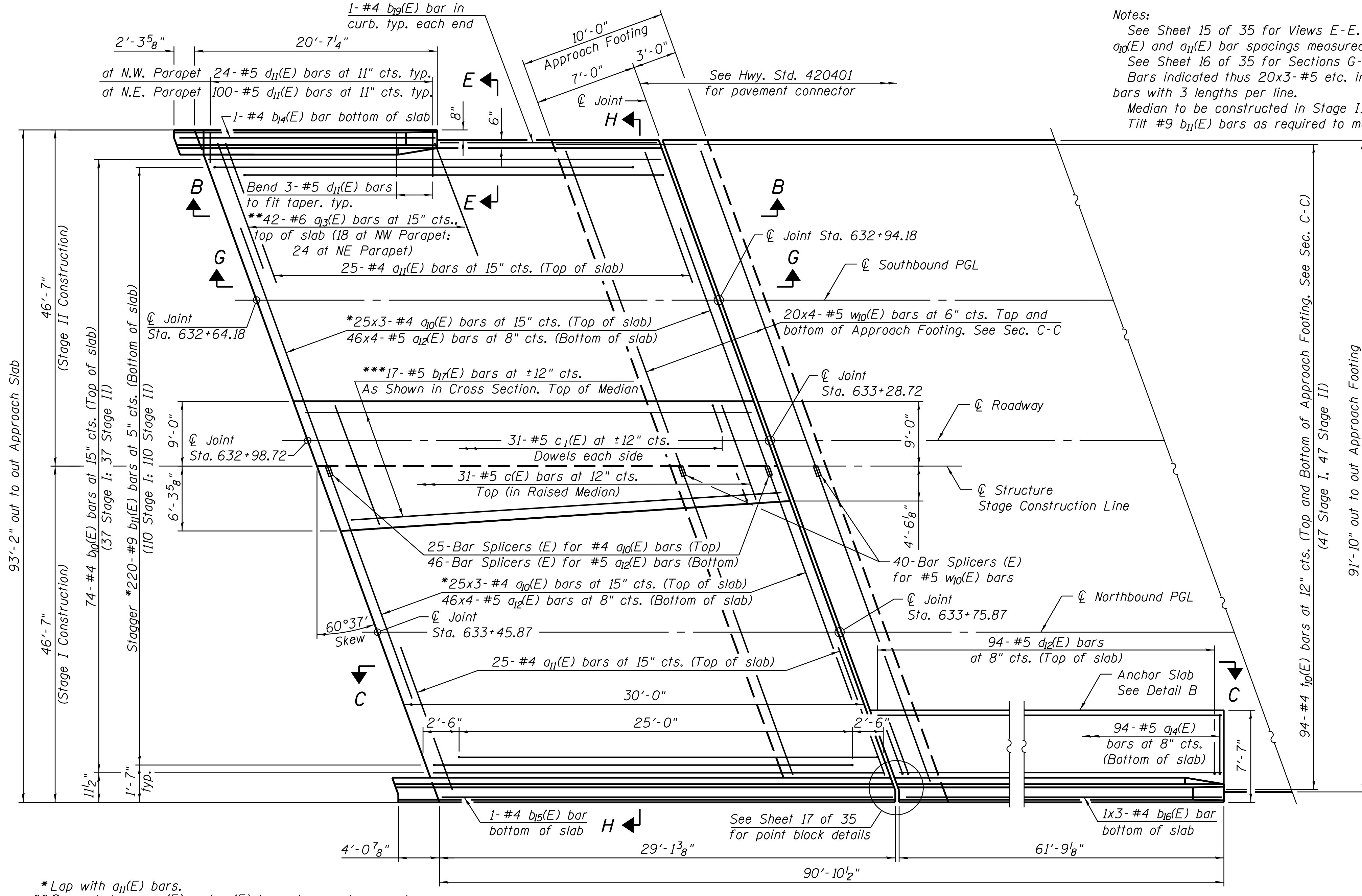
SHEET NO. 13 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	72

CONTRACT NO. 64C17

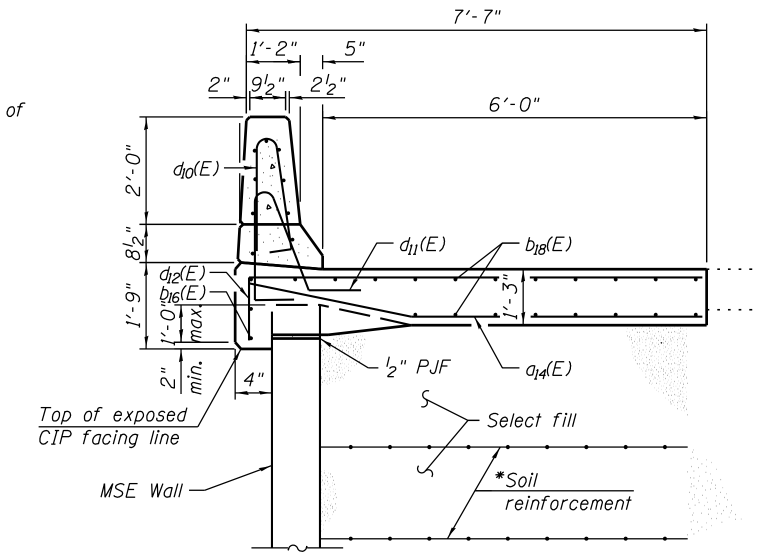
ILLINOIS FED. AID PROJECT

Notes:
See Sheet 15 of 35 for Views E-E.
a_{10}(E) and a_{11}(E) bar spacings measured along ℄ Rdwy.
See Sheet 16 of 35 for Sections G-G, H-H, and I-I.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Median to be constructed in Stage II.
Tilt #9 b_{11}(E) bars as required to maintain clearance.



* Lap with a_{11}(E) bars.
** Space between a_{10}(E) and a_{11}(E) bars, typ. each parapet.
*** Rotate to fit b_{17}(E) bars.

NORTH PLAN



DETAIL B

* The MSE Wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall

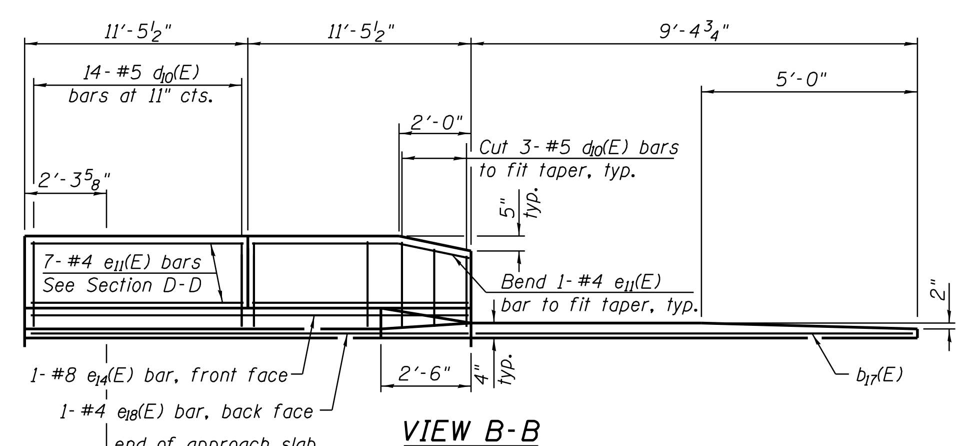
MIN. BAR LAP
(Approach Slab)
#4 bar = 2'-4"
#5 bar = 2'-7"

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

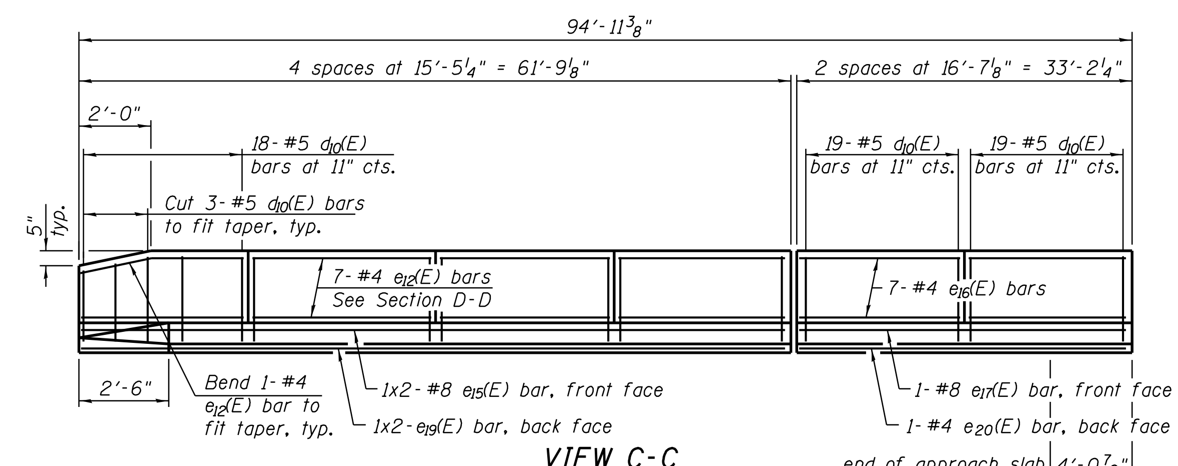
NORTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{10}(E)	150	#4	25'-6"	——
a_{11}(E)	50	#4	25'-11"	——/
a_{12}(E)	368	#5	25'-9"	——
a_{13}(E)	42	#6	6'-6"	——
a_{14}(E)	94	#5	7'-3"	——
b_{10}(E)	74	#4	29'-8"	——
b_{11}(E)	220	#9	29'-9"	⊔
b_{14}(E)	1	#4	20'-3"	——
b_{15}(E)	1	#4	28'-9"	——
b_{16}(E)	3	#4	21'-11"	——
b_{17}(E)	17	#5	29'-8"	——
b_{18}(E)	48	#4	26'-6"	——
b_{19}(E)	1	#5	9'-1"	——
c(E)	31	#5	31'-6"	——
c_1(E)	62	#5	1'-7"	⌐
d_{10}(E)	132	#5	5'-7"	∩
d_{11}(E)	124	#5	7'-11"	∩
d_{12}(E)	94	#5	8'-6"	⌐
e_{11}(E)	14	#4	11'-1"	——
e_{12}(E)	28	#4	15'-0"	——
e_{14}(E)	1	#8	22'-7"	——
e_{15}(E)	2	#8	33'-4"	——
e_{16}(E)	14	#4	16'-3"	——
e_{17}(E)	1	#8	32'-10"	——
e_{18}(E)	1	#4	22'-7"	——
e_{19}(E)	2	#4	31'-9"	——
e_{20}(E)	1	#4	32'-10"	——
t_{10}(E)	188	#4	20'-0"	——
w_{10}(E)	320	#5	25'-6"	——
Concrete Superstructure		Cu. Yd.	207	
Concrete Structures		Cu. Yd.	58	
Reinforcement Bars, Epoxy Coated		Pound	44,300	****
Reinforcement Bars, Epoxy Coated		Pound	11,030	*****

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



VIEW B-B
(Northwest Parapet)



VIEW C-C
(Northeast Parapet)

FILE NAME = s:\jol\6300-6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-014-BAP.dgn

STRAND ASSOCIATES	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - MJD	REVISED	
			CHECKED - AJS	REVISED	
		PLOT SCALE =	DRAWN - BJF	REVISED	
		PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

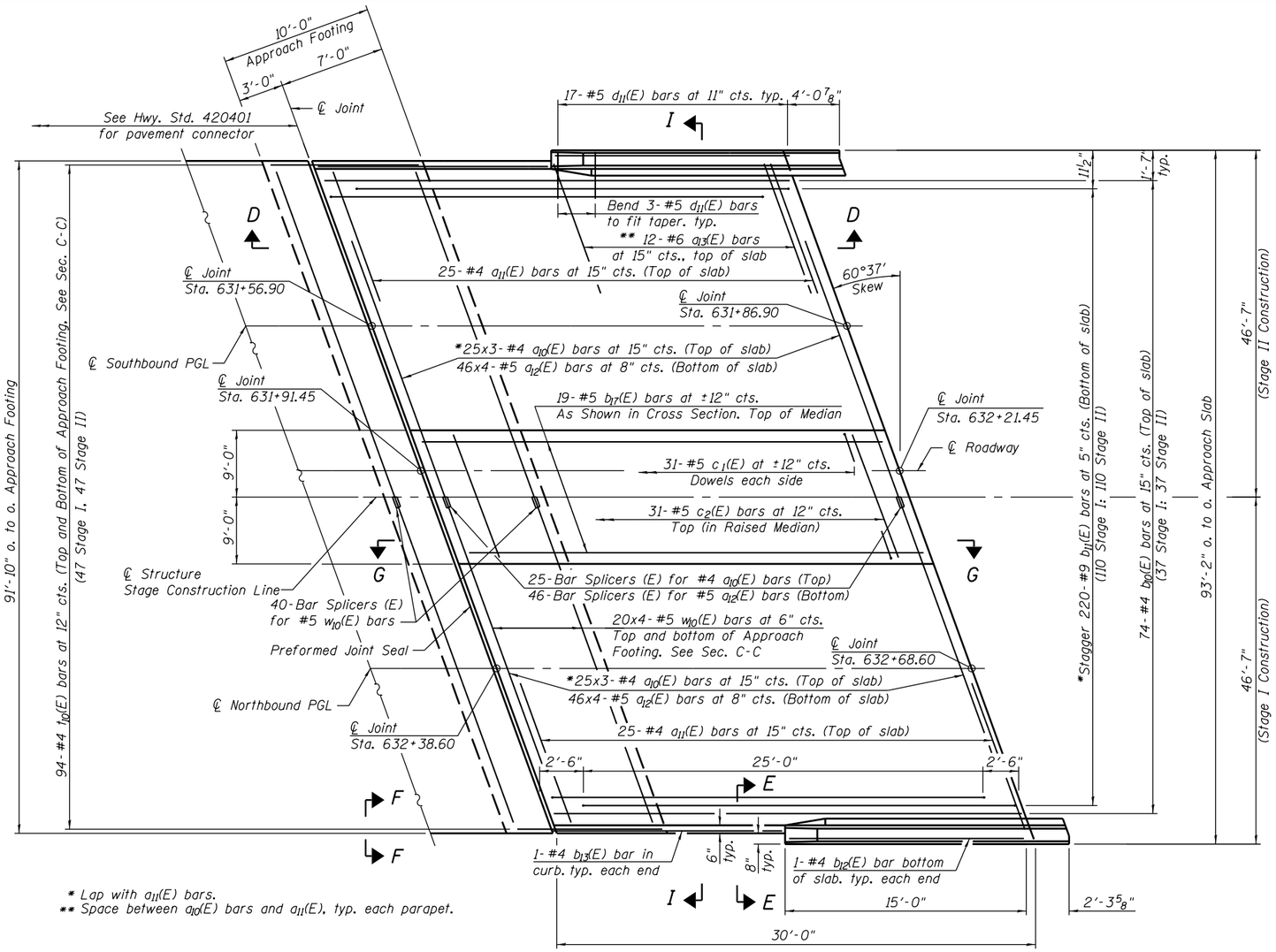
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT (1 OF 3)
STRUCTURE NO. 098-0015

SHEET NO. 14 OF 35 SHEETS

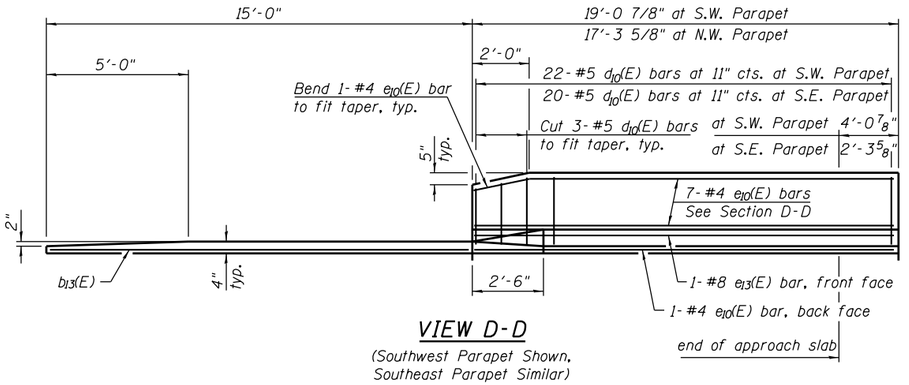
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	73
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

Notes:
See Sheet 16 of 35 for Sections G-G, H-H and I-I.
$a_{10}(E)$ and $a_{11}(E)$ bar spacings measured along ℄ Rdwy.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Tilt #9 $b_{11}(E)$ bars as required to maintain clearance.
See Sheet 14 of 35 for bar lap requirements.



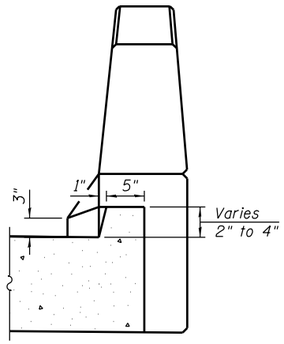
* Lap with $a_{11}(E)$ bars.
** Space between $a_{10}(E)$ bars and $a_{11}(E)$, typ. each parapet.

SOUTH PLAN



VIEW D-D

(Southwest Parapet Shown, Southeast Parapet Similar)

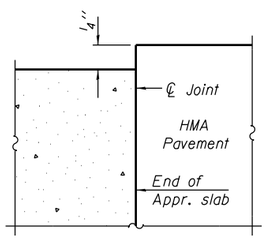


VIEW E-E

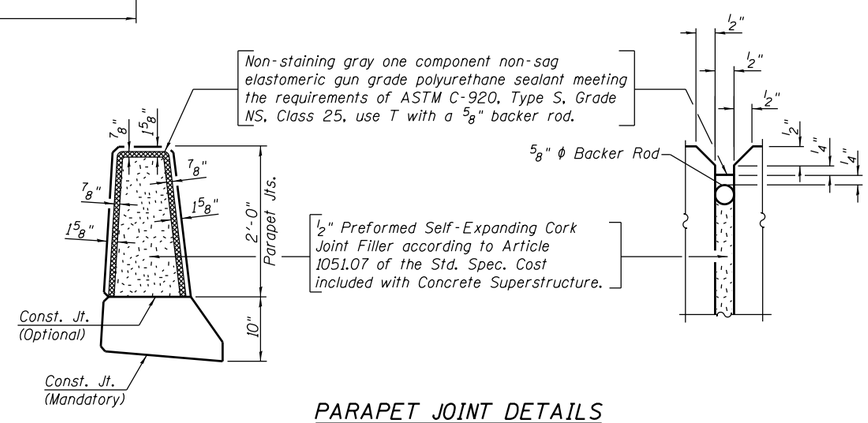
SOUTH APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
$a_{10}(E)$	150	#4	25'-6"		
$a_{11}(E)$	50	#4	25'-11"		
$a_{12}(E)$	368	#5	25'-9"		
$a_{13}(E)$	24	#6	6'-6"		
$b_{10}(E)$	74	#4	29'-8"		
$b_{11}(E)$	220	#9	29'-9"		
$b_{12}(E)$	2	#4	14'-8"		
$b_{13}(E)$	2	#4	15'-10"		
$b_{17}(E)$	19	#5	29'-8"		
$c_1(E)$	62	#5	1'-7"		
$c_2(E)$	31	#5	36'-4"		
$d_{10}(E)$	42	#5	5'-7"		
$d_{11}(E)$	34	#5	7'-11"		
$e_{10}(E)$	16	#4	14'-8"		
$e_{13}(E)$	2	#8	14'-8"		
$t_{10}(E)$	188	#4	20'-0"		
$w_{10}(E)$	320	#5	25'-6"		
Concrete Superstructure			Cu. Yd.	176	
Concrete Structures			Cu. Yd.	58	
Reinforcement Bars, Epoxy Coated			Pound	39,950	***
Reinforcement Bars, Epoxy Coated			Pound	11,030	****

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



FLEXIBLE PAVEMENT DETAIL A



PARAPET JOINT DETAILS

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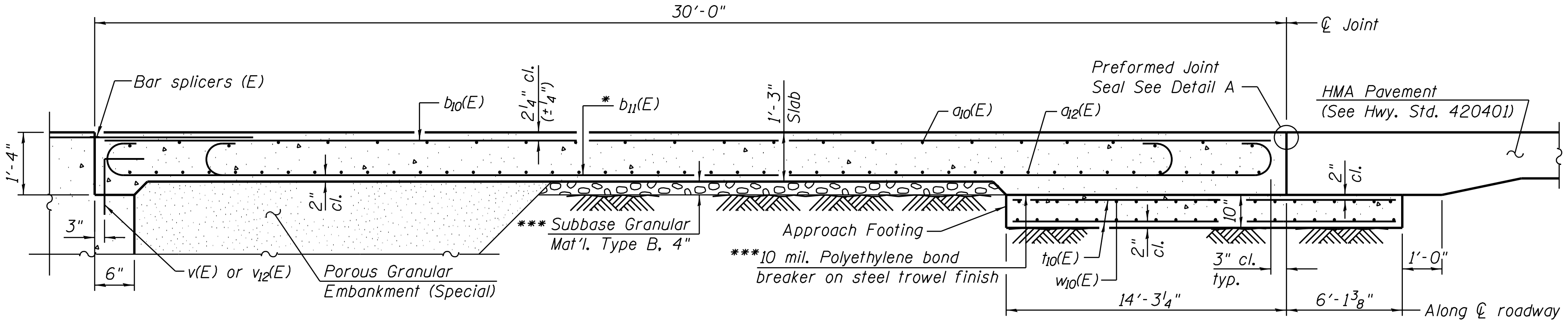
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - MJD	REVISED	
	CHECKED - AJS	REVISED	
PLOT SCALE =	DRAWN - BJF	REVISED	
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

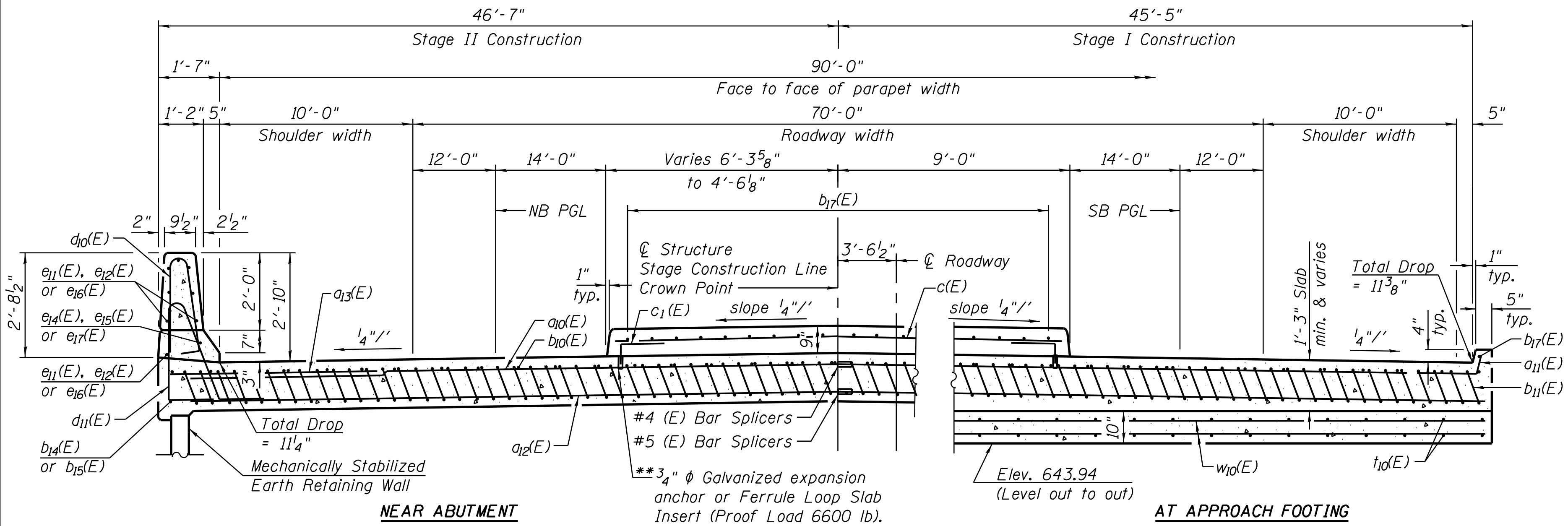
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT (2 OF 3)
STRUCTURE NO. 098-0015
SHEET NO. 15 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	74
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

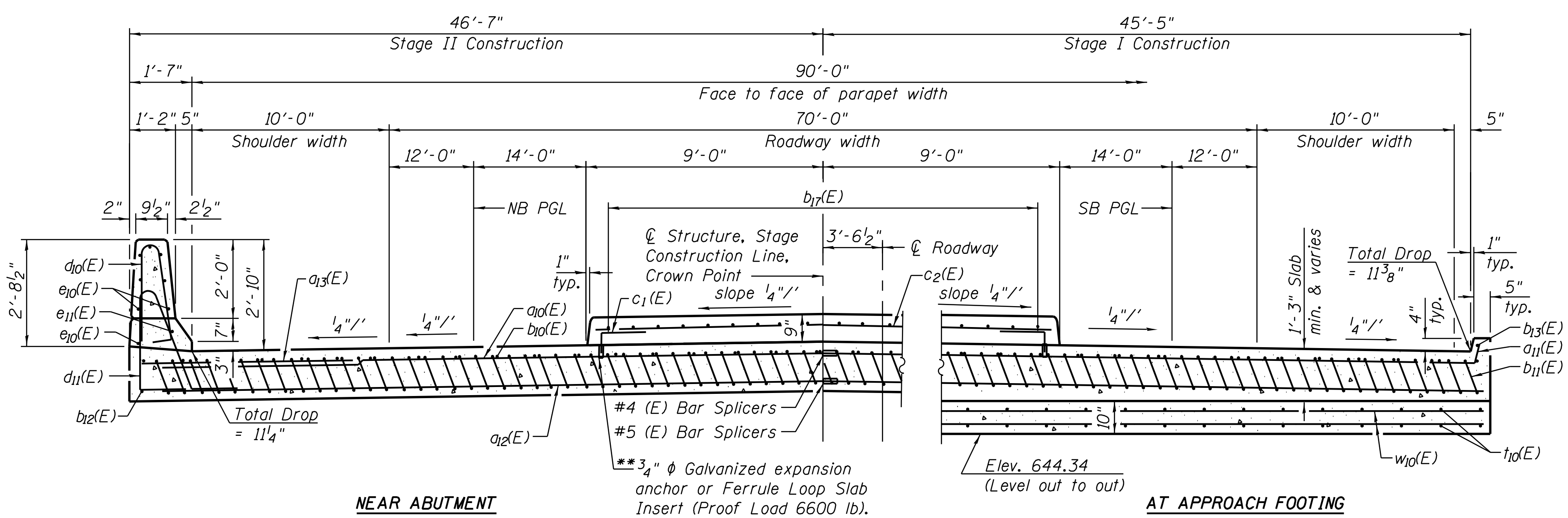


SECTION G-G



SECTION H-H

(North Approach - Looking South)

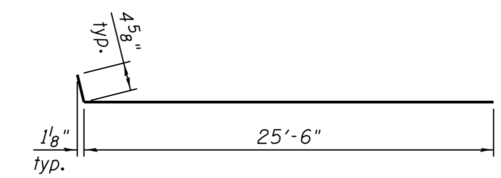


SECTION I-I

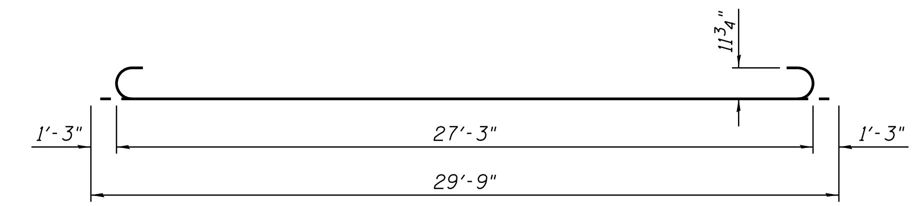
(South Approach - Looking South)

Notes:

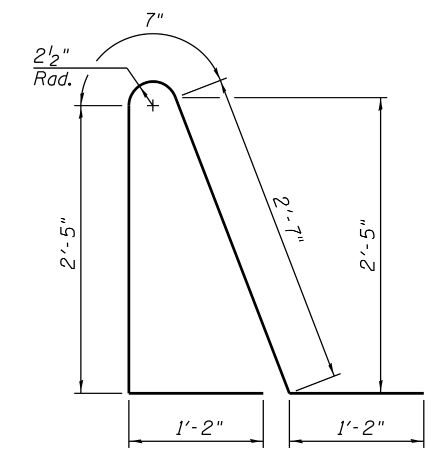
See Sheet 15 of 35 for Detail A.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v_{12}(E) bar details, See Sheet 28 of 35.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, See Sheet 32 of 35.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, See Sheet 28 of 35.
For additional parapet details, See Sheet 14 and 15 of 35.
See Sheet 13 of 35 for d(E) and c_1(E) bend diagrams.



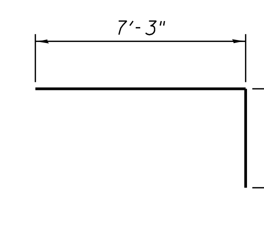
BAR a_{11}(E)



BAR b_{11}(E)



BAR d_{11}(E)



BAR d_{12}(E)

* Tilt #9 b_{11}(E) bars as required to maintain clearance.

** The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

*** Cost included with Concrete Superstructure.

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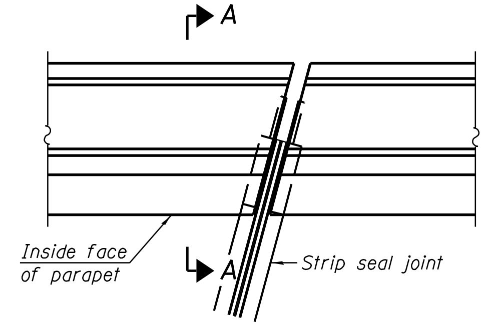
		CHECKED - AJS	REVISED
	PLOT SCALE =	DRAWN - BJF	REVISED
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

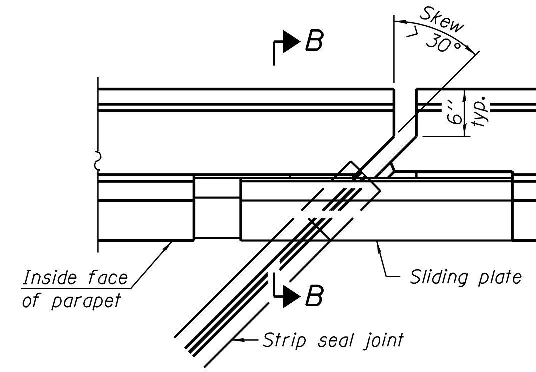
BRIDGE APPROACH PAVEMENT (3 OF 3)
STRUCTURE NO. 098-0015

SHEET NO. 16 OF 35 SHEETS

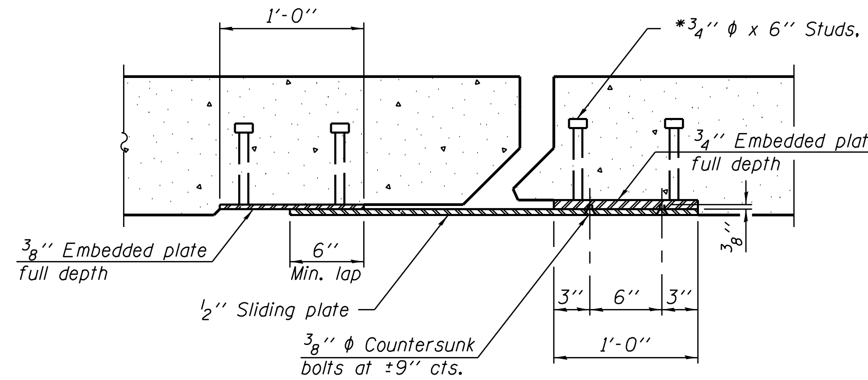
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	75
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



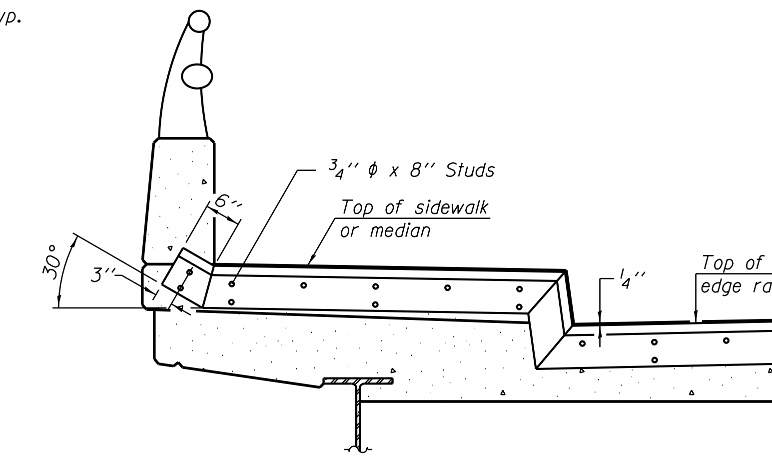
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

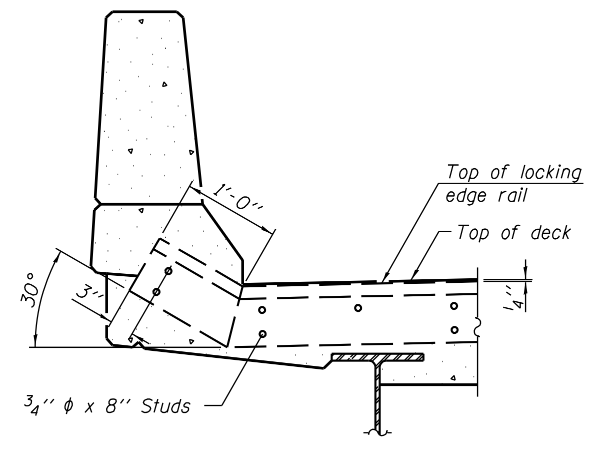


SECTION C-C

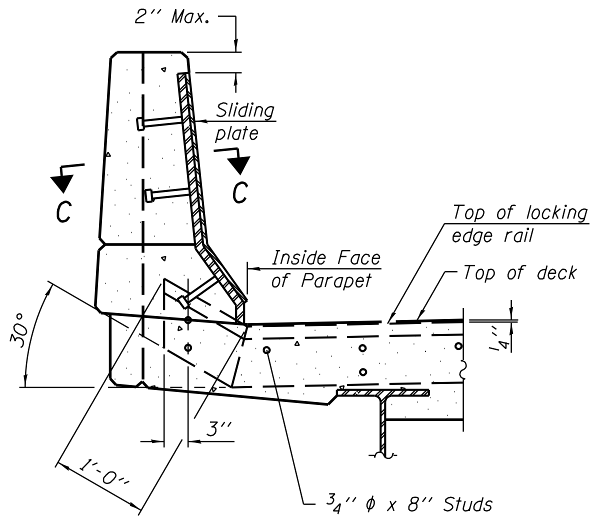


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

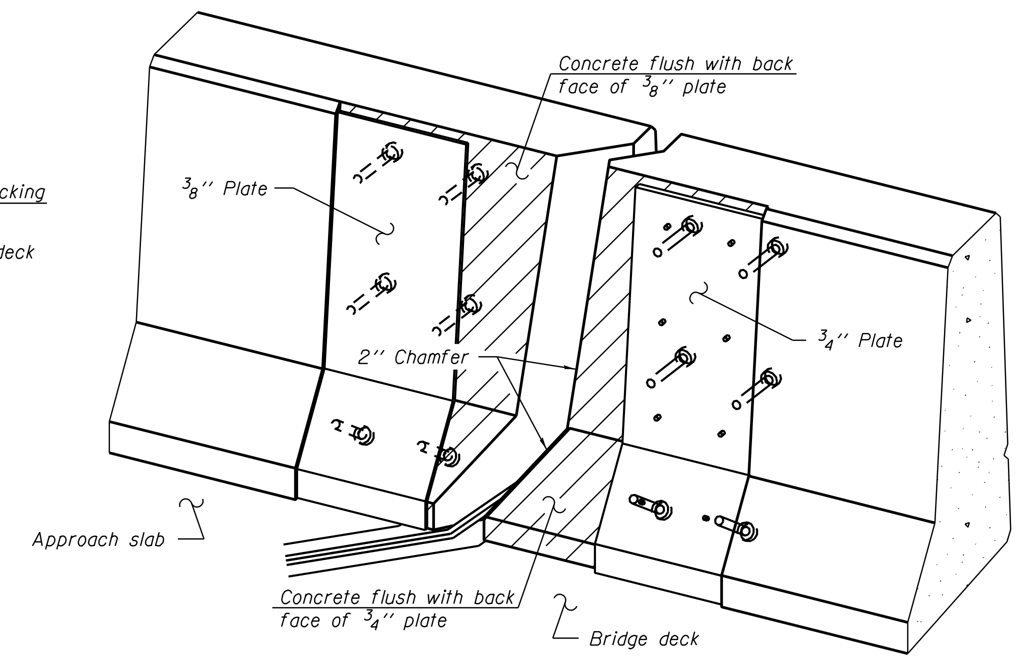
Shorter plates with a single row of studs at 12'' cts. may be necessary on medians which are shallower than 9''. See manufacturer's recommendation.



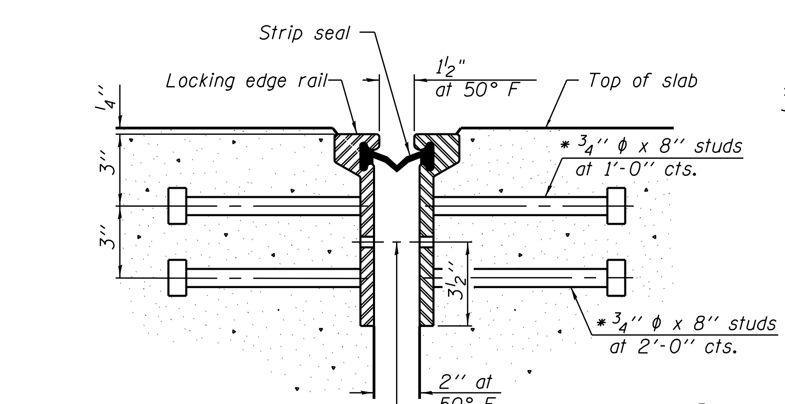
SECTION A-A



SECTION B-B

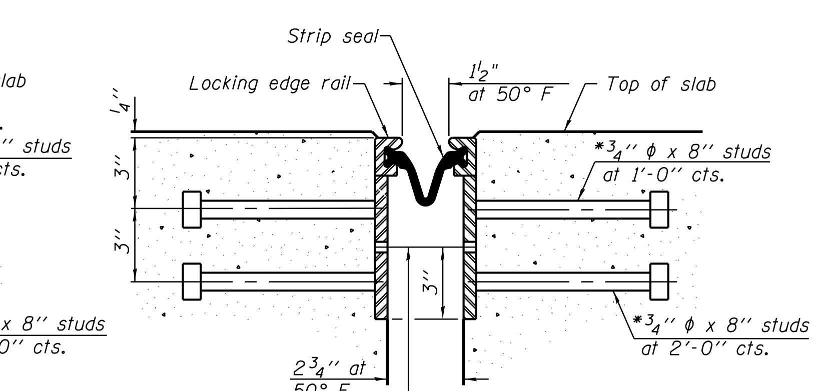


TRIMETRIC VIEW
(Showing back plates only)



7/16'' φ holes at 4'-0'' cts. for 3/8'' φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

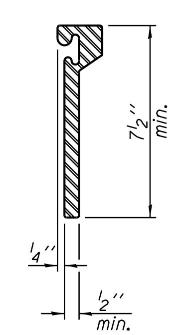
SECTION THRU ROLLED RAIL JOINT



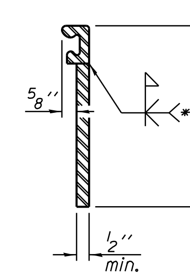
7/16'' φ holes at 4'-0'' cts. for 3/8'' φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

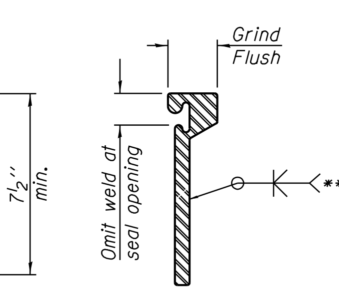
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4''. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16'', sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	378

EJ-SSJ 1-27-12

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USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 098-0015

SHEET NO. 17 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	76
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

* TOP OF WEB ELEVATIONS		
Beam Number	℄ Brg. S. Abut.	℄ Brg. N. Abut.
1	645.83	646.07
2	646.00	646.20
3	646.16	646.32
4	646.32	646.43
5	646.47	646.54
6	646.62	646.64
7	646.75	646.73
8	646.88	646.81
9	646.88	646.81
10	646.78	646.62
11	646.65	646.46
12	646.53	646.29
13	646.39	646.11
14	646.25	645.92
15	646.10	645.73
16	645.95	645.53

* For Fabrication Only

INTERIOR GIRDER REACTION TABLE		
		Abutment
R_{DC1}	(k)	26.08
R_{DC2}	(k)	10.10
R_{DW}	(k)	8.60
$R_{℄ + IM}$	(k)	103.15
R_{Total}	(k)	147.92

INTERIOR GIRDER MOMENT TABLE		
		0.5 Sp.
I_s	(in^4)	7,246
$I_c(n)$	(in^4)	25,684
$I_c(3n)$	(in^4)	16,956
S_s	(in^3)	714
$S_c(n)$	(in^3)	1,064
$S_c(3n)$	(in^3)	965
DC1	(k/')	0.775
M_{DC1}	('k)	404
DC2	(k/')	0.338
M_{DC2}	('k)	158
DW	(k/')	0.288
M_{DW}	('k)	134
$M_{℄ + IM}$	('k)	721
M_u (Strength I)	('k)	2,165
$\phi_f M_n$	('k)	4,293
f_s DC1	(ksi)	6.78
f_s DC2	(ksi)	1.96
f_s DW	(ksi)	1.67
f_s (℄+IM)	(ksi)	8.13
f_s (Service II)	(ksi)	20.98
$0.95R_hF_{yf}$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	27.7
$\phi_f F_n$	(ksi)	-
V_f	(k)	42.98

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

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

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

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_{℄ + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$.

f_s (℄+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
$M_{℄ + IM} / S_c(n)$.

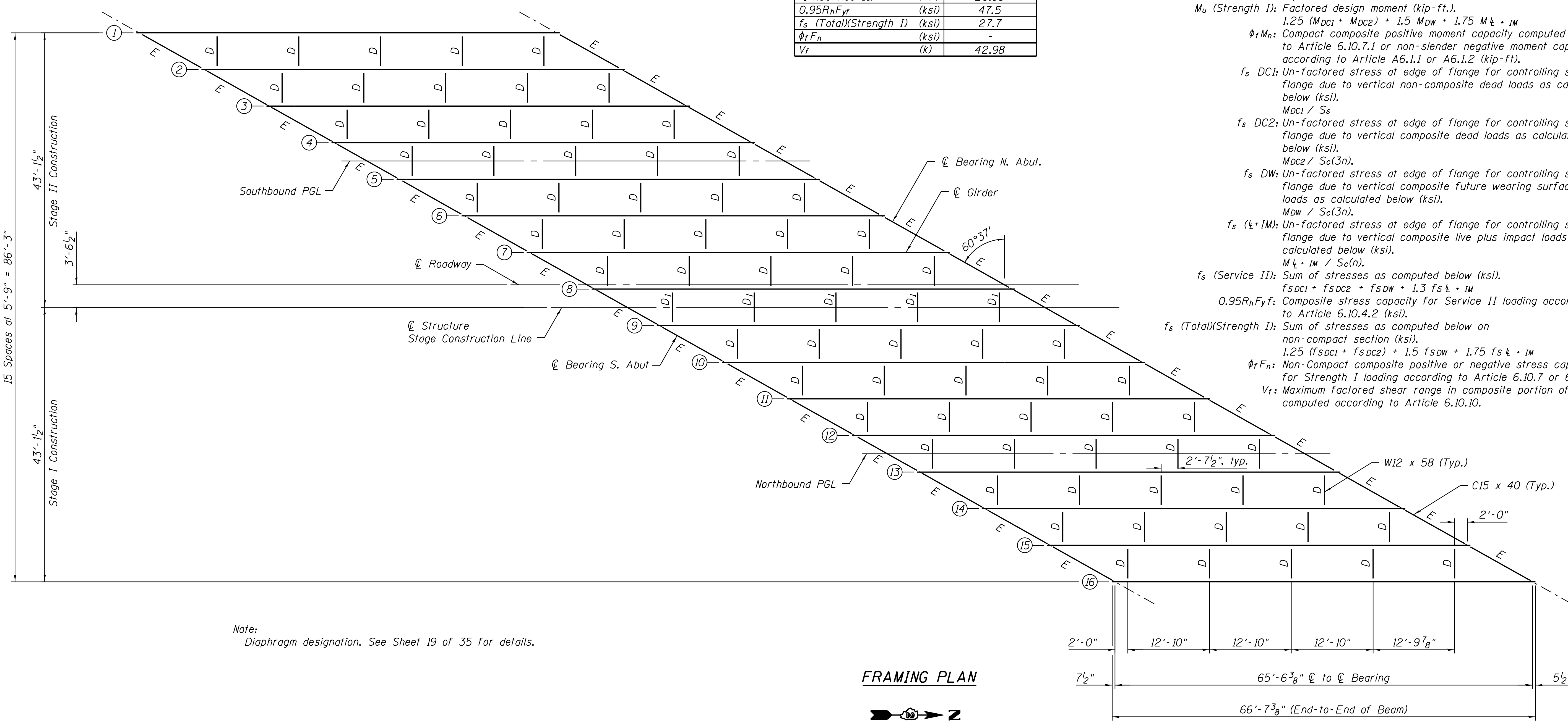
f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_{s℄ + IM}$

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_{s℄ + IM}$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

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



Note:
Diaphragm designation. See Sheet 19 of 35 for details.

FRAMING PLAN

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-018-FRAM.dgn

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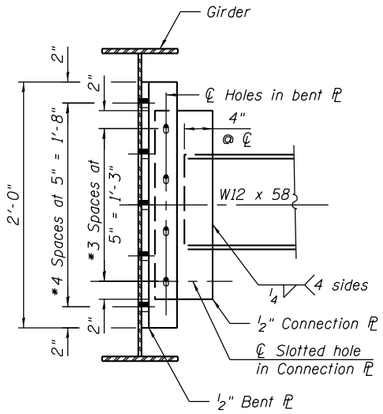
		CHECKED - AJS	REVISED
	PLOT SCALE =	DRAWN - BJF	REVISED
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

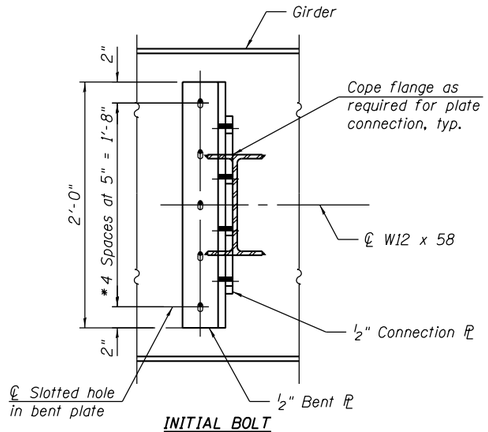
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING PLAN
STRUCTURE NO. 098-0015
SHEET NO. 18 OF 35 SHEETS

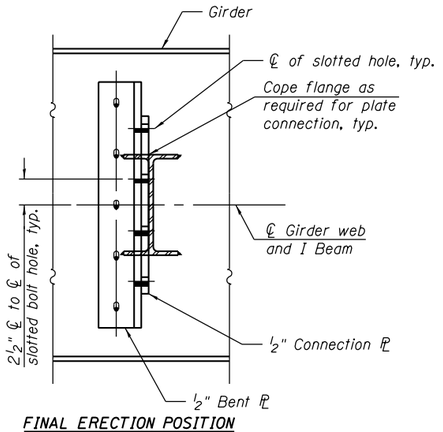
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	77
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



INITIAL BOLT ERECTION POSITION



INITIAL BOLT ERECTION POSITION



FINAL ERECTION POSITION AFTER STAGE II DECK POUR

GENERAL NOTES

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

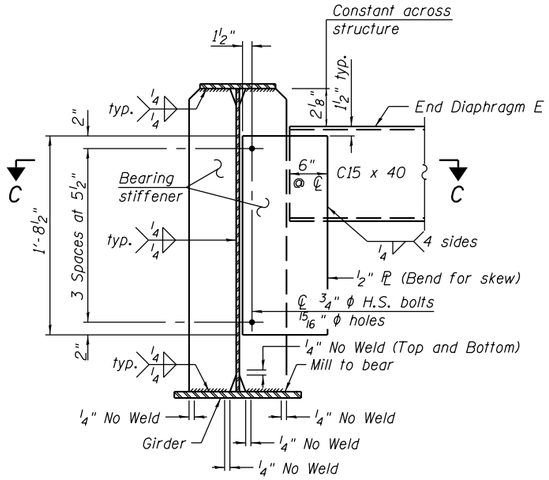
Load carrying components designated "NTR" shall conform to the "Impact Testing Requirements, Zone 2".

Two hardened washers required for each set of oversized holes.

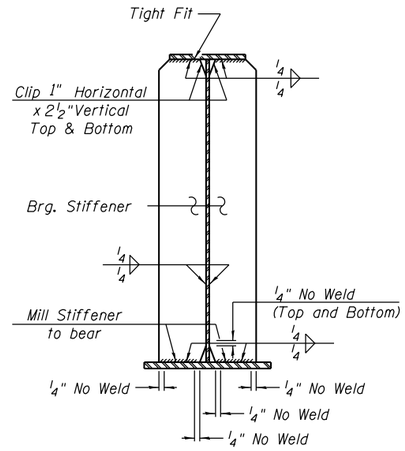
Bolts in slots shall be finger tight until the second stage pour is complete and fully tightened after completion of the deck pour for Stage II Construction. Position slots so bolts start at the end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement without laterally stressing main members.

INTERIOR DIAPHRAGM D_1

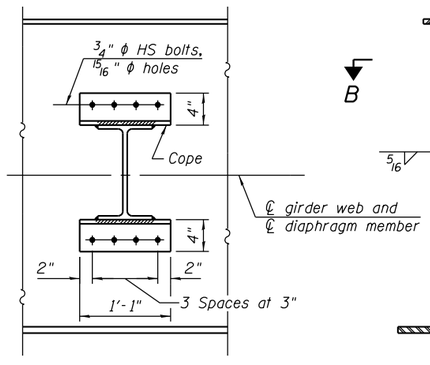
*Use $^{13}/_{16}$"x$1^{7}/_{8}$" long-slotted vertical holes for the diaphragms along the Stage Construction Line at beam 8. Long-slotted holes shall be utilized in the bent plate at the web and in the connection plate. Slotted holes shall not be used in the beam web.

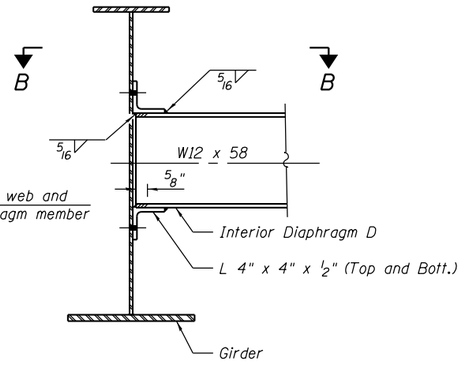


END DIAPHRAGM E

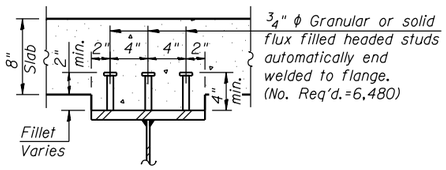


SECTION AT ABUTMENT

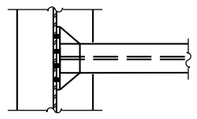




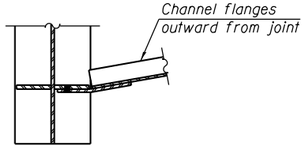
INTERIOR DIAPHRAGM D



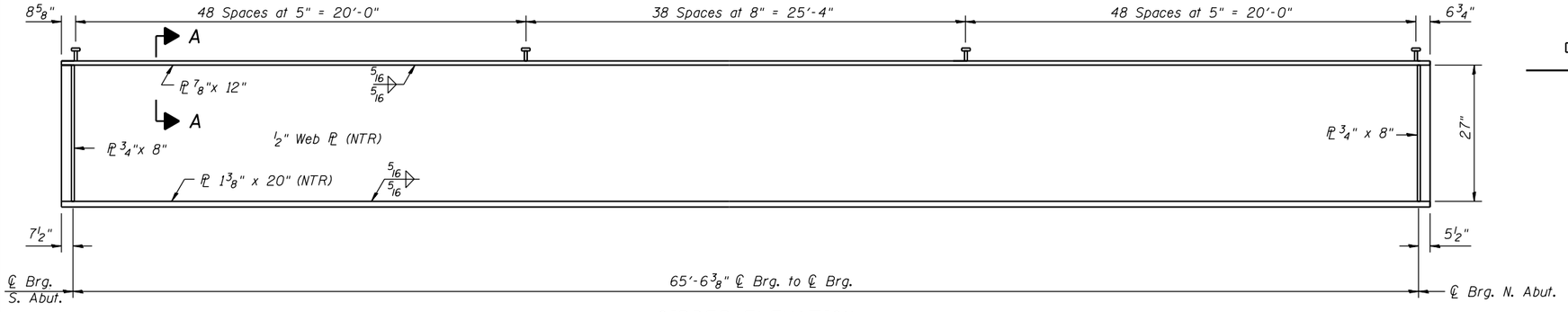
SECTION A-A



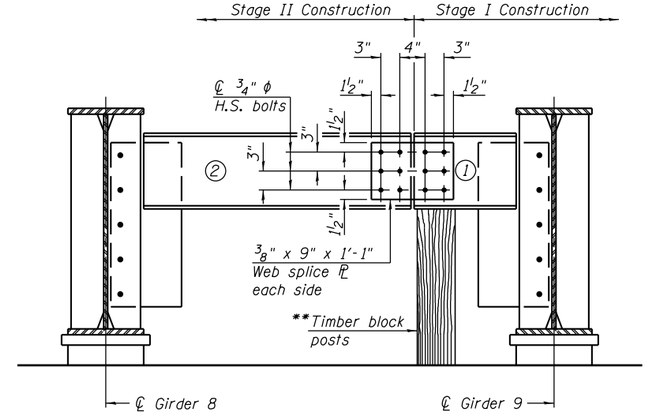
SECTION B-B



SECTION C-C



GIRDER ELEVATION



END DIAPHRAGM

**Cost of Timber Block Posts is included with Structural Steel.

END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

1.) Order diaphragm in two sections.
2.) Attach section (1) of diaphragm to girder.
3.) Place timber block posts between section (1) of diaphragm and abutment bearing section.
4.) Attach section (2) of diaphragm to both girder 8 and section (1) of diaphragm during stage II construction with splice plates.
5.) Remove timber block posts.

FILE NAME = s:\pl\6388-6399\6396\025\micros\Sht\Structural Plans\098D015-64C17-019-BEAM.dgn

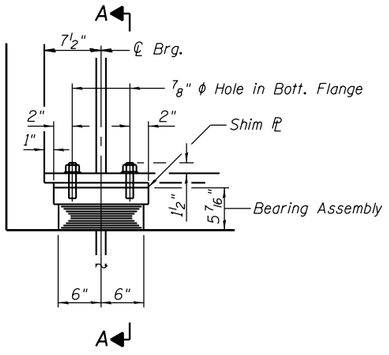
STRAND ASSOCIATES®
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

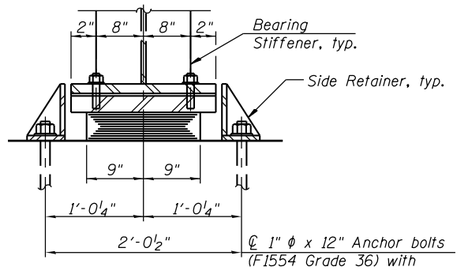
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM DETAILS
STRUCTURE NO. 098-0015
SHEET NO. 19 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	78
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

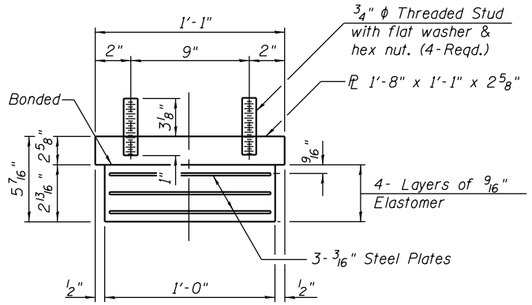


ELEVATION AT SOUTH ABUTMENT



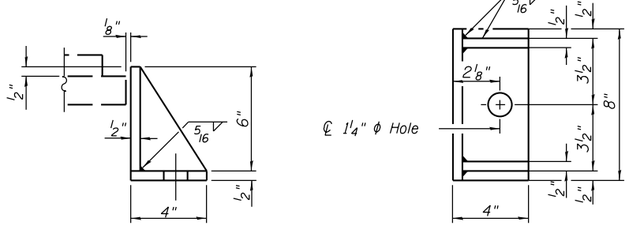
SECTION A-A

SOUTH ABUTMENT TYPE I ELASTOMERIC EXP. BRG.



SOUTH ABUTMENT BEARING ASSEMBLY

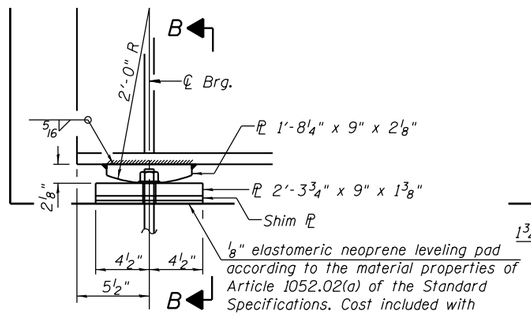
Note:
Shim plates shall not be placed under Bearing Assembly.



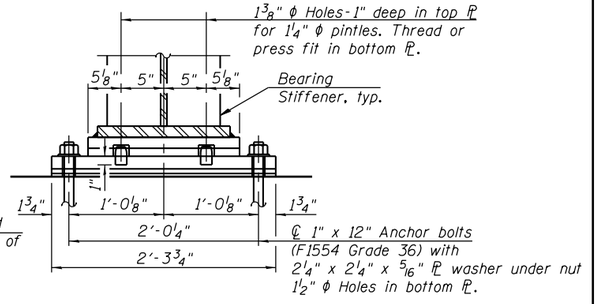
SOUTH ABUTMENT SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

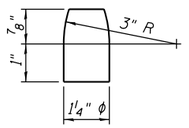


ELEVATION AT NORTH ABUTMENT



SECTION B-B

NORTH ABUTMENT FIXED BEARING



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	16
Anchor Bolts, 1"	Each	64

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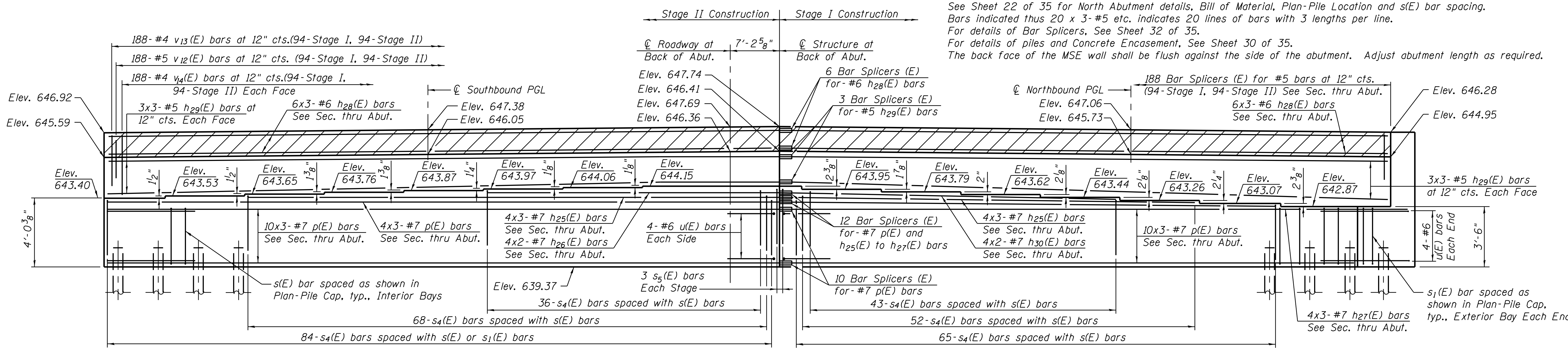
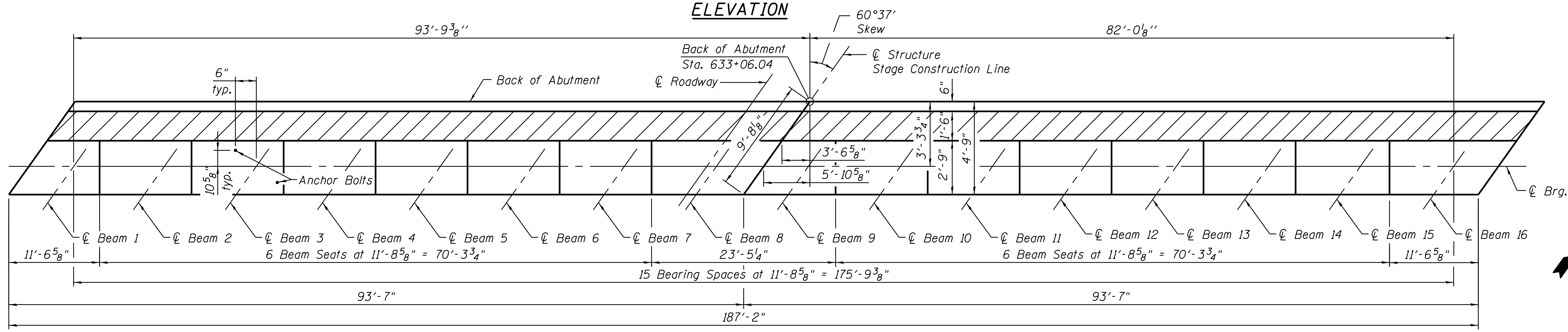
STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS STRUCTURE NO. 098-0015	F.A.P. RTE. 646	SECTION 101 BR-3	COUNTY WHITESIDE	TOTAL SHEETS 130	SHEET NO. 79
		CHECKED - AJS	REVISED							
	PLOT SCALE =	DRAWN - BJF	REVISED						CONTRACT NO. 64C17	
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 20 OF 35 SHEETS			ILLINOIS	FED. AID PROJECT	

Notes:

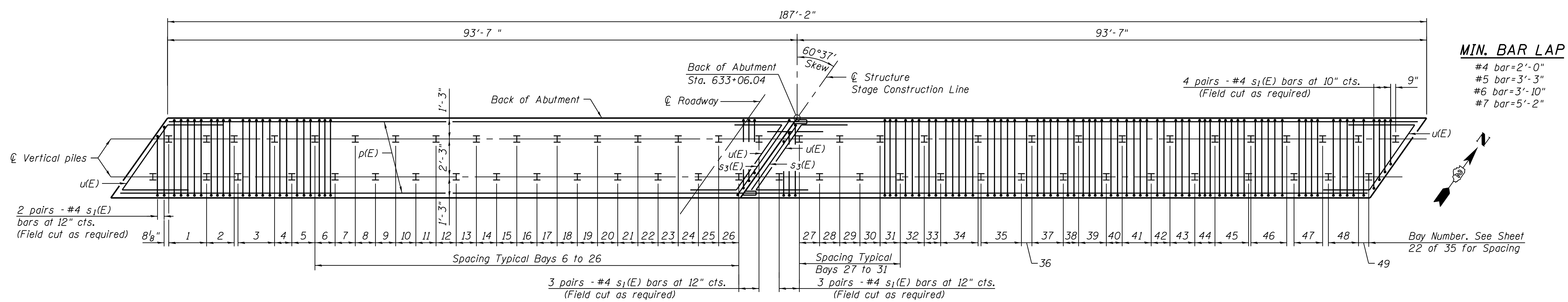
- See Sheet 22 of 35 for North Abutment details, Bill of Material, Plan-Pile Location and s(E) bar spacing.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- For details of Bar Splicers, See Sheet 32 of 35.
- For details of piles and Concrete Encasement, See Sheet 30 of 35.
- The back face of the MSE wall shall be flush against the side of the abutment. Adjust abutment length as required.



ELEVATION



TOP VIEW



PLAN-PILE CAP

Note: Step Reinforcement Not Shown

MIN. BAR LAP

#4 bar=2'-0"
#5 bar=3'-3"
#6 bar=3'-10"
#7 bar=5'-2"

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	PLOT SCALE =	DRAWN - BJF	REVISED	
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

NORTH ABUTMENT DETAILS (1 OF 2)
STRUCTURE NO. 098-0015
SHEET NO. 21 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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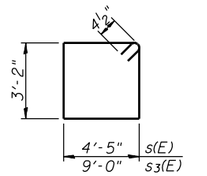
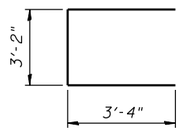
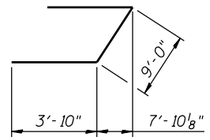
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



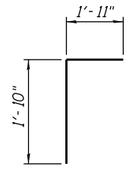
BARS s(E) & s3(E)



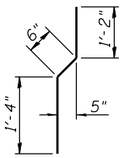
BARS s1(E)



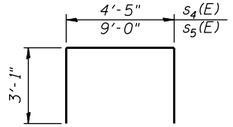
BAR u(E)



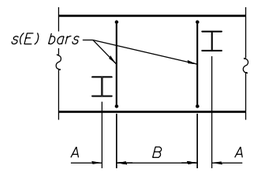
BAR v12(E)



BAR v13(E)

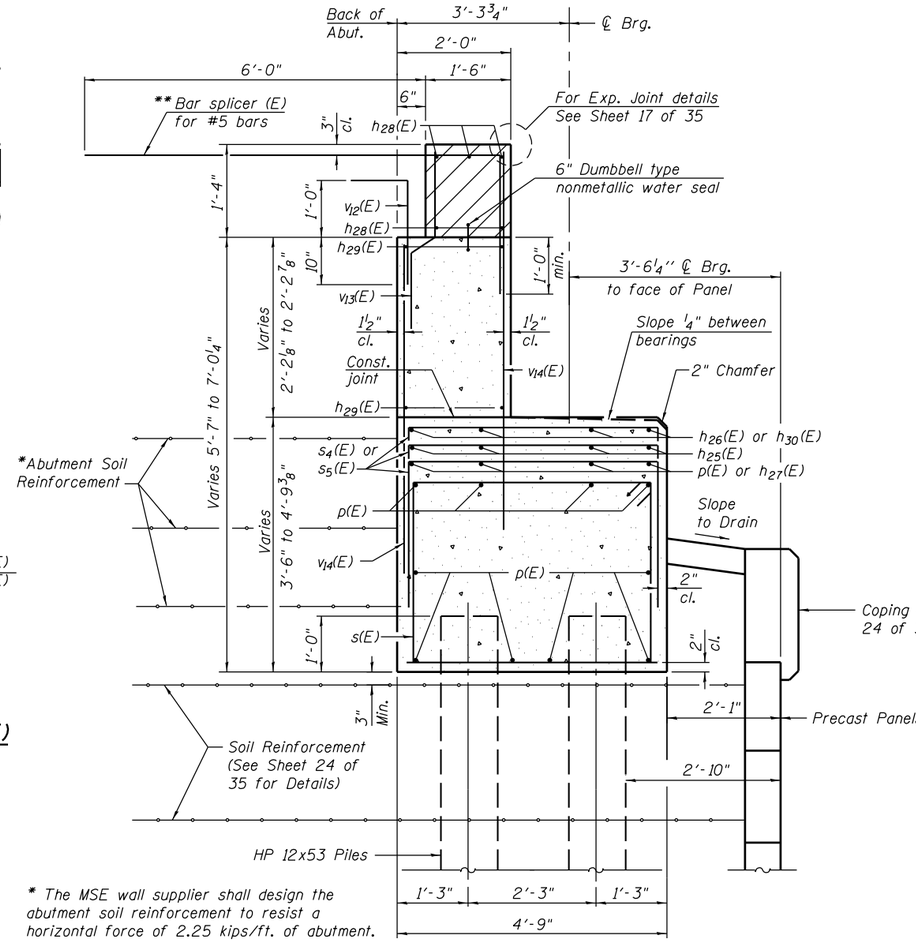


BARS s4(E) & s5(E)



PILE BAY BAR SPACING PLAN

See Pile Bay Bar Spacing Table



SEC. THRU ABUT.

* The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 2.25 kips/ft. of abutment.

**Align Bar Splicer parallel to approach slab reinforcement.

PILE BAY BAR SPACING TABLE

Bay	A	B
1	9⅞"	5 bars at 12" cts.
2	8⅛"	4 bars at 11" cts.
3	8⅝"	5 bars at 12" cts.
4	9⅜"	2 bars at 12" cts.
5	8⅝"	3 bars at 12" cts.
6 to 26	8"	3 bars at 10" cts.
27 to 31	8"	3 bars at 10" cts.
32	9⅜"	3 bars at 12" cts.
33	8⅝"	2 bars at 12" cts.
34	9⅜"	5 bars at 12" cts.
35	12"	5 bars at 12" cts.
36	9⅜"	1 bar
37	10"	4 bars at 12" cts.
38	8⅛"	2 bars at 11" cts.
39	8¼"	4 bars at 11" cts.
40	8¼"	2 bars at 12" cts.
41	7¾"	4 bars at 12" cts.
42	10¾"	2 bars at 12" cts.
43	10¼"	3 bars at 12" cts.
44	8¾"	3 bars at 9½" cts.
45	8⅛"	5 bars at 11" cts.
46	8"	5 bars at 12" cts.
47	9"	4 bars at 11" cts.
48	8¾"	4 bars at 12" cts.
49	9¼"	1 bar

For Numbering of Bays See Sheet 21 of 35. See Pile Bay Bar Spacing Plan for dimensions.

NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p(E)	72	#7	34'-8"	
s(E)	156	#4	15'-11"	
s1(E)	24	#4	9'-10"	
s3(E)	2	#6	25'-1"	
s4(E)	348	#4	10'-7"	
s5(E)	6	#4	15'-1"	
h25(E)	24	#7	28'-6"	
h26(E)	8	#7	22'-7"	
h27(E)	12	#7	30'-10"	
h28(E)	36	#6	33'-9"	
h29(E)	36	#5	33'-5"	
h30(E)	8	#7	31'-11"	
u(E)	16	#6	16'-8"	
v12(E)	188	#5	3'-9"	
v13(E)	188	#4	3'-0"	
v14(E)	376	#4	5'-0"	
Porous Granular Embankment		Cu. Yd.	448	
Structure Excavation		Cu. Yd.	973	
Removal and Disposa of Unsuitable Material for Structures		Cu. Yd.	448	
Concrete Structures		Cu. Yd.	173	
Reinforcement Bars, Epoxy Coated		Pound	18,410	
Furnishing Steel Piles, HP 12x53		Foot	3,540	
Driving Piles		Foot	3,540	
Test Pile, Steel HP 12x53		Each	1	
Concrete Sealer		Sq. Ft.	2,110	

Structure Excavation quantity includes excavation for MSE Wall.

Notes:

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

Pour steps monolithically with cap.

For details of Bar Splicers, see sheet 32 of 35.

Piles shall be driven prior to placement of the reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above the base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of the Furnishing Piles.

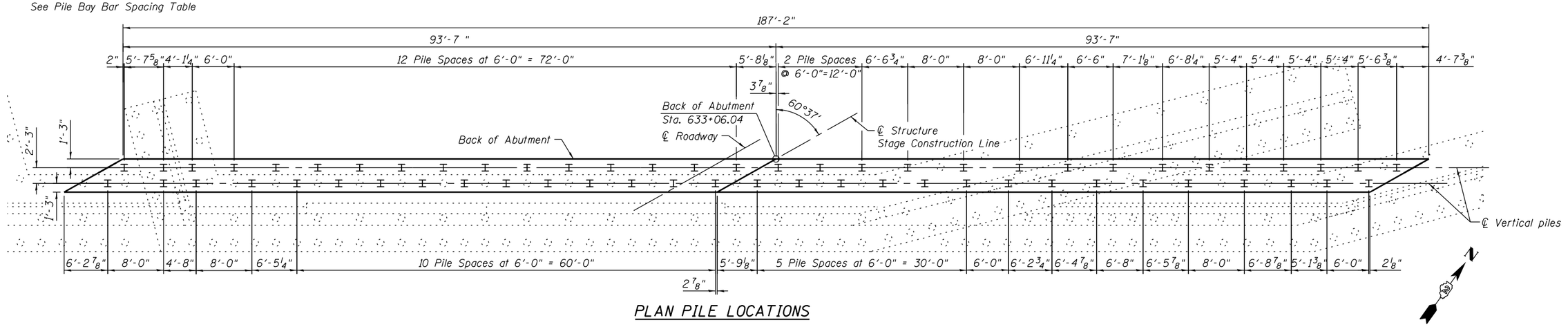
Pile shall be driven through 1'-6" min. diameter precored holes extending to elevation 623.8 according to Article 512.09(c) of the Standard Specifications and includes coring thru existing reinforce concrete footing. Proposed pile locations are to be located by the contractor to avoid interference with the existing piling. Cost included in Driving Piles.

For the Limits of Removal and Disposal of Unsuitable Material for Structures and Porous Gradual Embankment, see Sheet 24 of 35.

See Sheet 1 of 35 for location of overhead transmission lines. Contractor must communicate with Commonwealth Edison.

PILE DATA

Type: HP 12x53
Nominal Required Bearing: 145 Kips
Factored Resistance Available: 80 Kips
Est. Length: 59 Feet per Pile
No. Production Piles: 60
No. Test Piles: 1



PLAN PILE LOCATIONS

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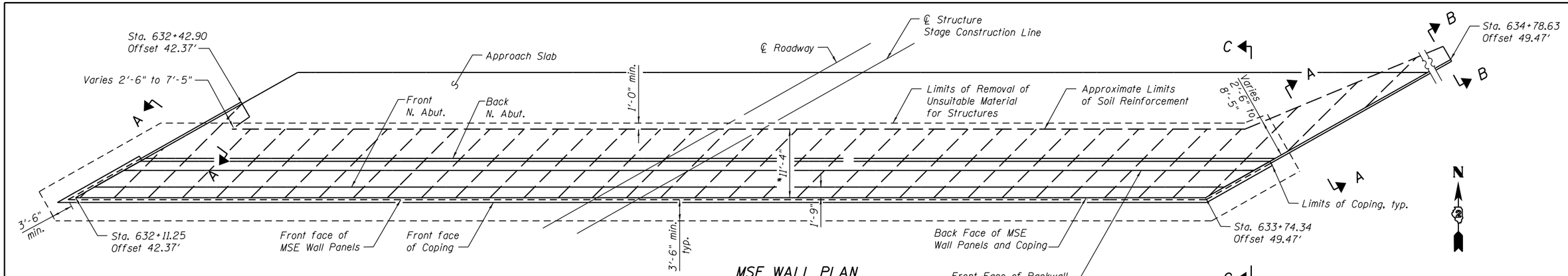
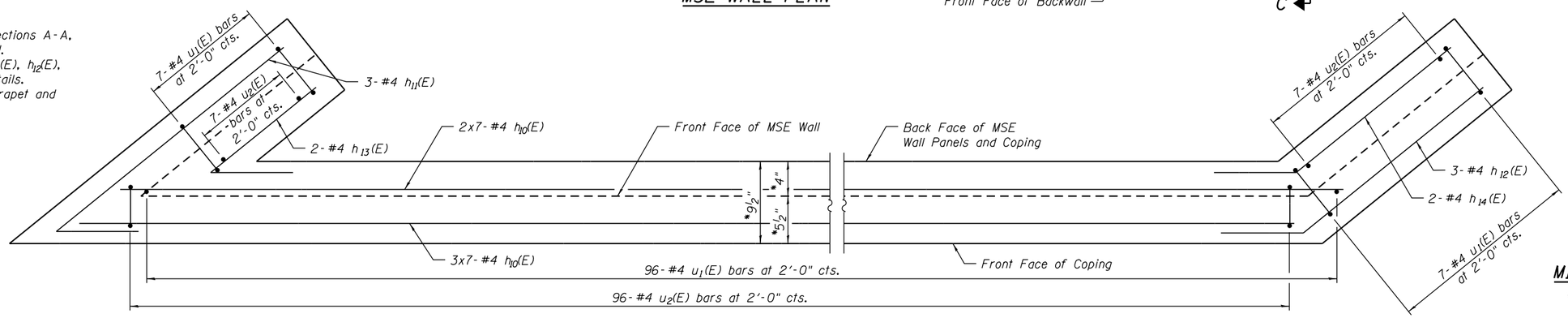
STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT DETAILS (2 OF 2) STRUCTURE NO. 098-0015
		CHECKED - AJS	REVISED		
	PLOT SCALE =	DRAWN - BJF	REVISED		
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 22 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	81
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			



MSE WALL PLAN

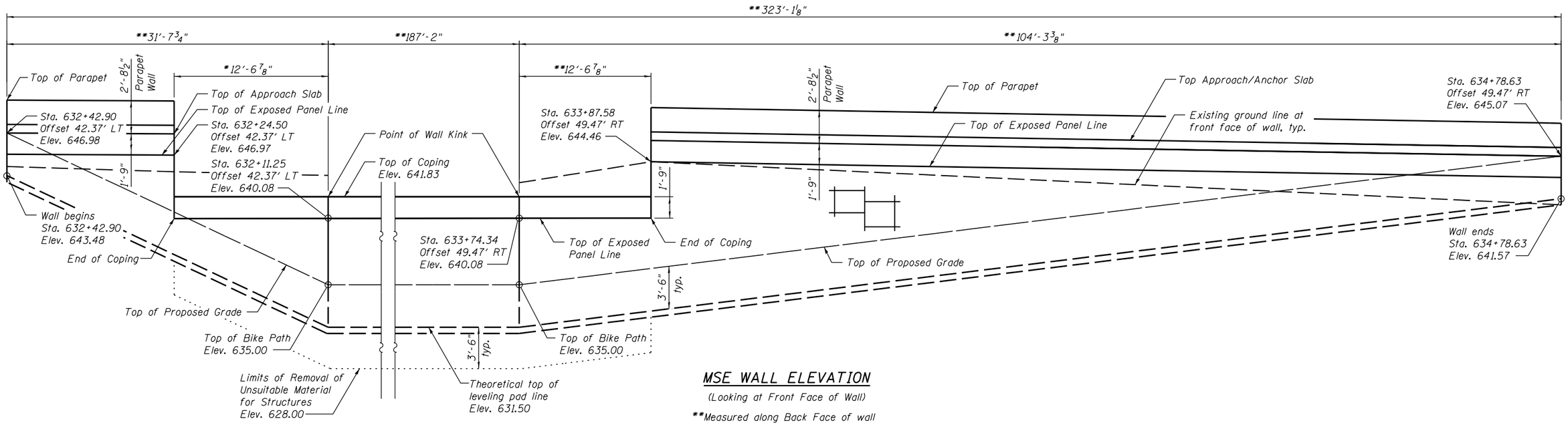
Note:
See Sheet 24 of 35 for Sections A-A, B-B, C-C, and Bill of Material.
See Sheet 24 of 35 for $h_{11}(E)$, $h_{12}(E)$, $h_{13}(E)$, $h_{14}(E)$ and $u_1(E)$ bar details.
See Sheet 14 of 35 for Parapet and Anchor Slab details.



COPING REINFORCEMENT PLAN

MIN. BAR LAP
#4 bar = 2'-11"

*Dimensions to be verified by MSE Wall Manufacturer.



MSE WALL ELEVATION

(Looking at Front Face of Wall)

**Measured along Back Face of wall

FILE NAME = s:\pl\6300-6399\6346\025\micros\Shts\Structural Plans\P980015-64C17-023-MSE1.dgn

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
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USER NAME = brianf	DESIGNED - RRD	REVISED	
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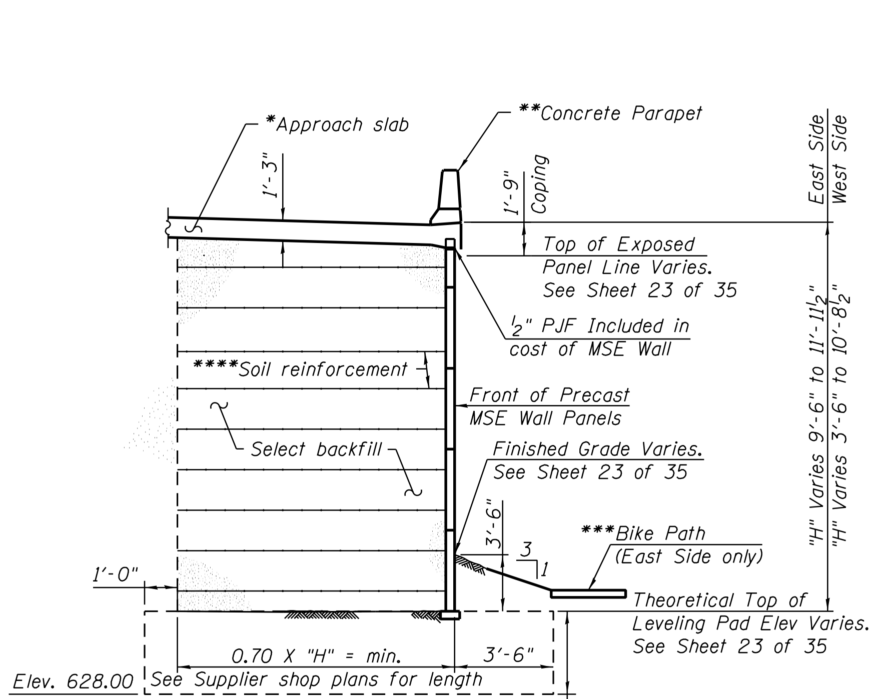
PLOT SCALE =	DRAWN - BJF	REVISED	
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL DETAILS (1 OF 2)
STRUCTURE NO. 098-0015
SHEET NO. 23 OF 35 SHEETS

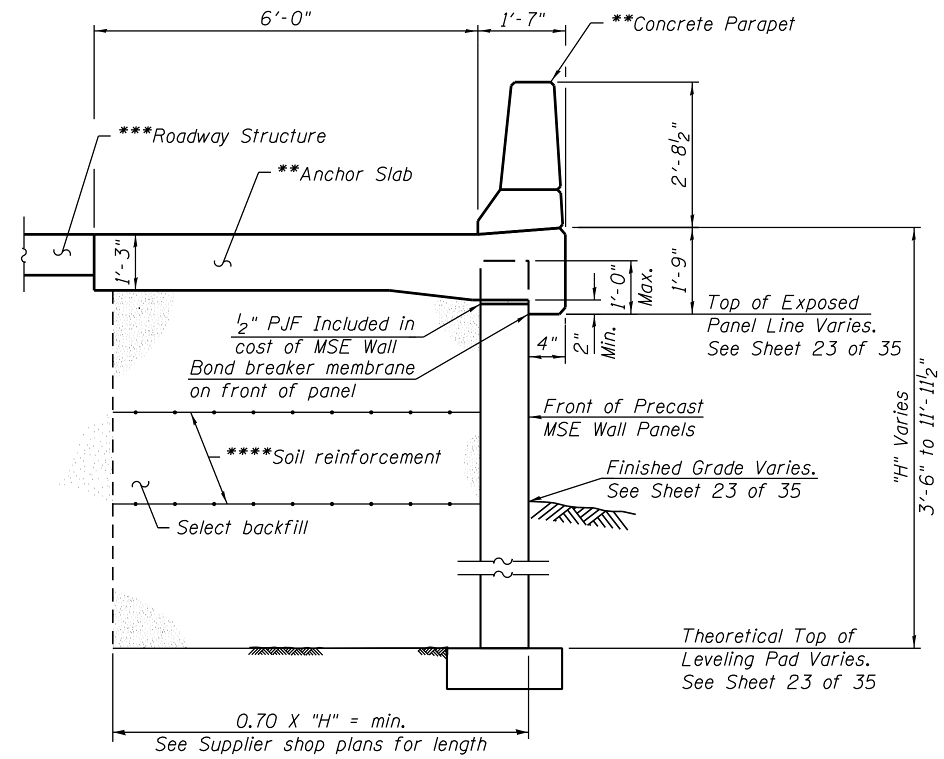
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	82
		CONTRACT NO. 64C17		
	ILLINOIS	FED. AID PROJECT		



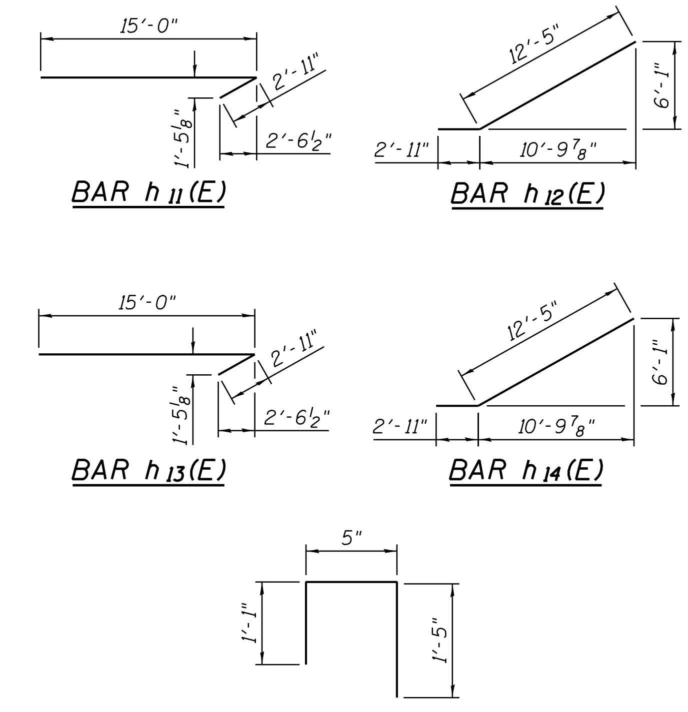
SECTION A-A

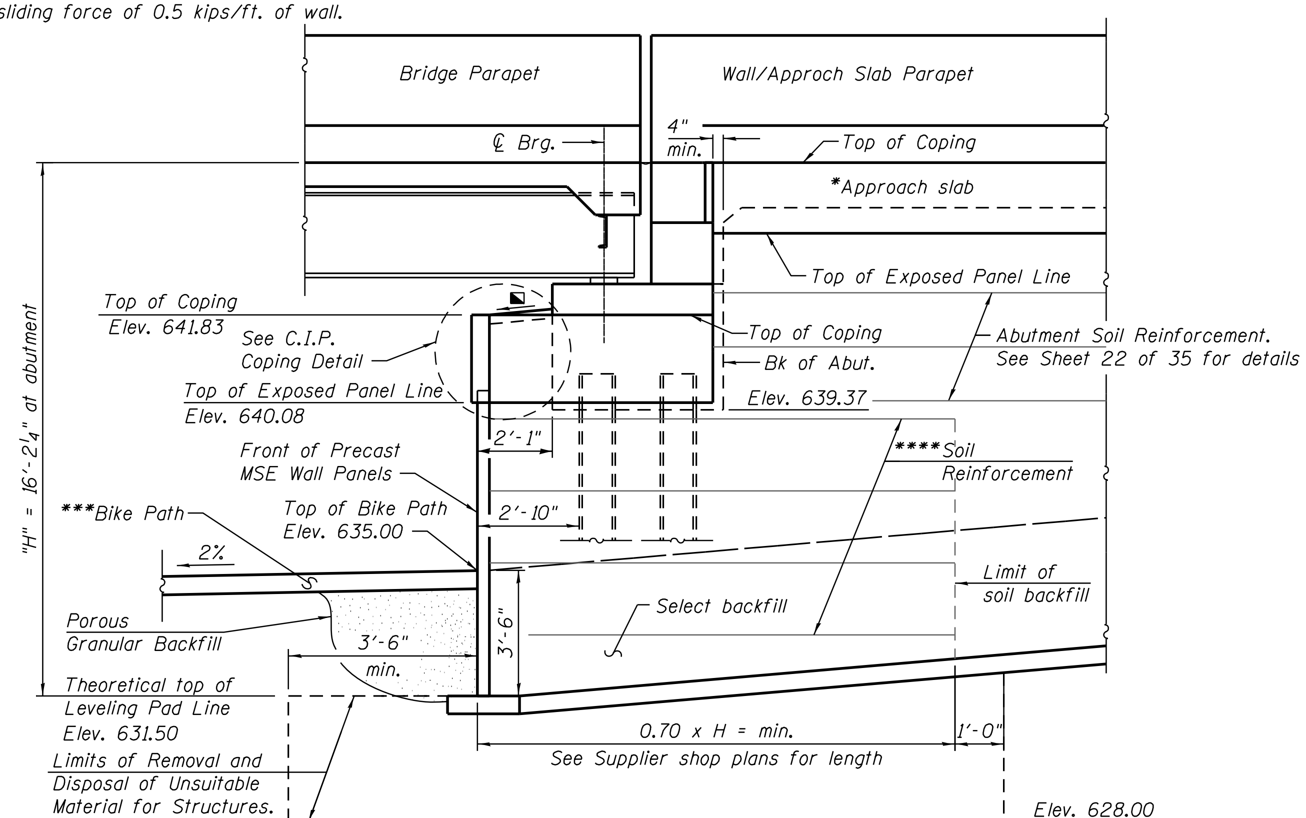
* See Sheet 14, 15 and 16 of 35 for Details.
** See Sheet 14 and 15 of 35 for Details.
*** See Roadway Plans for Details.
**** The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

Note:
Excavation in front of the MSE wall is included in the cost of Mechanically Stabilized Earth Retaining Wall.



SECTION B-B

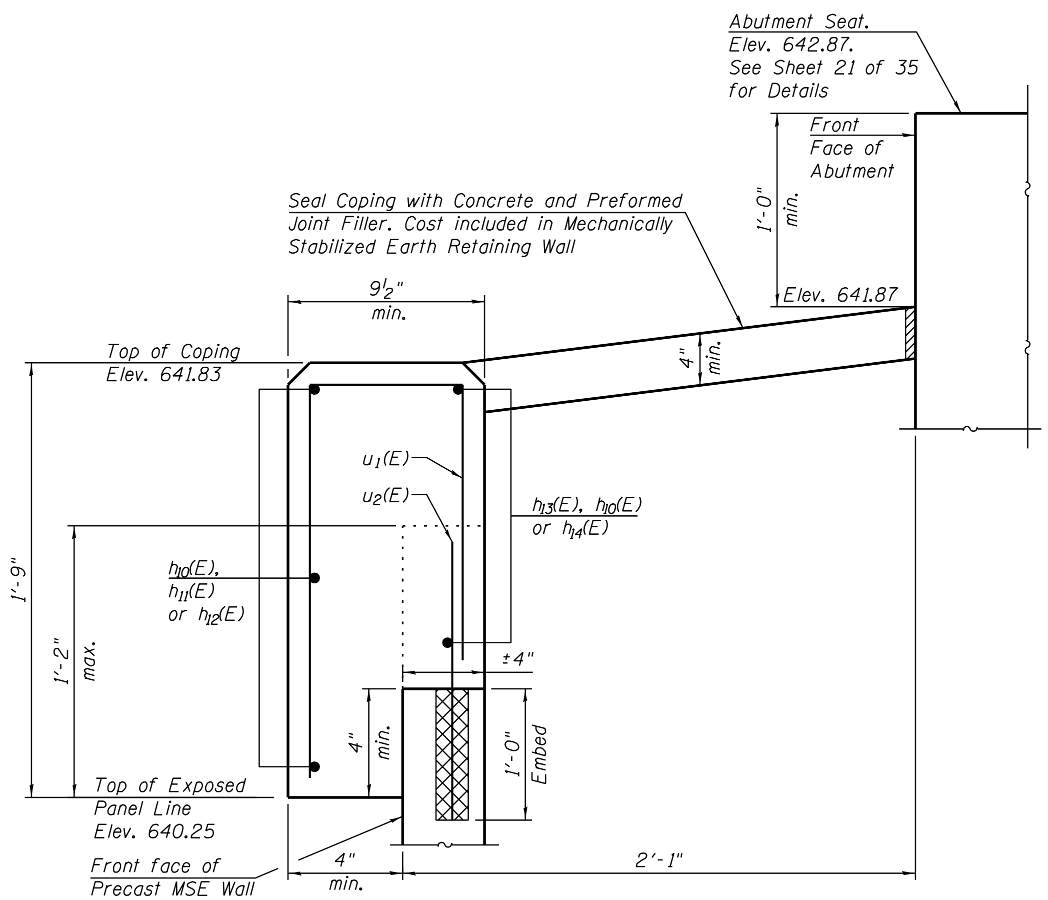




SECTION C-C

(Looking West)
(Horizontal Dimensions @ Rt. ∠'s)

Note: Existing Foundation not shown for clarity.



C.I.P. COPING DETAIL

BILL OF MATERIAL

Item	Unit	Total
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,472

C.I.P. COPING BILL OF MATERIAL*****

Bar	No.	Size	Length	Shape
$h_{10}(E)$	35	#4	29'-8"	
$h_{11}(E)$	3	#4	17'-11"	
$h_{12}(E)$	3	#4	15'-4"	
$h_{13}(E)$	2	#4	15'-6"	
$h_{14}(E)$	2	#4	15'-1"	
$u_1(E)$	110	#4	2'-11"	
$u_2(E)$	110	#4	1'-5"	
Concrete Structures			Cu. Yd.	13.7
Reinforcement Bars, Epoxy Coated			Pound	1,120
Concrete Sealer			Sq. Ft.	836

***** For information only. Cost of C.I.P. Coping and Coping Seal Concrete including: Concrete Structures, Reinforcing Bars, Epoxy Coated, and Concrete Sealer will be included for payment in the contract unit price for Mechanically Stabilized Earth Retaining Walls.

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-023-MSE2.dgn

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		CHECKED - AJS	REVISED
	PLOT SCALE =	DRAWN - BJF	REVISED
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

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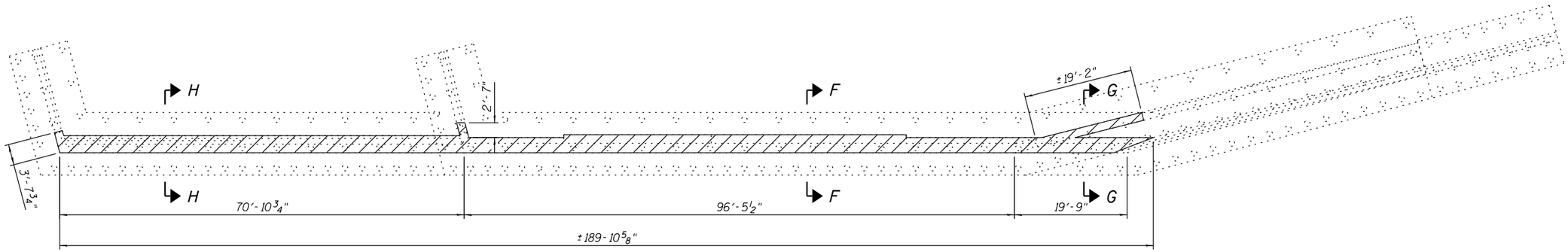
MSE WALL DETAILS (2 OF 2)
STRUCTURE NO. 098-0015
SHEET NO. 24 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	83

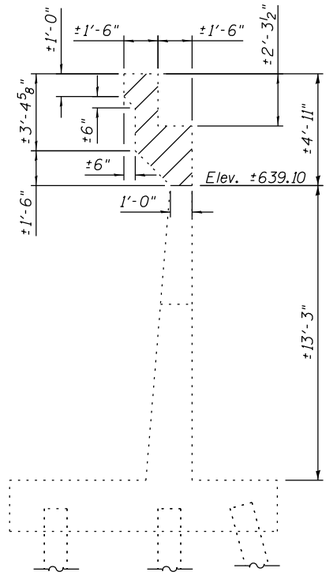
CONTRACT NO. 64C17
ILLINOIS FED. AID PROJECT



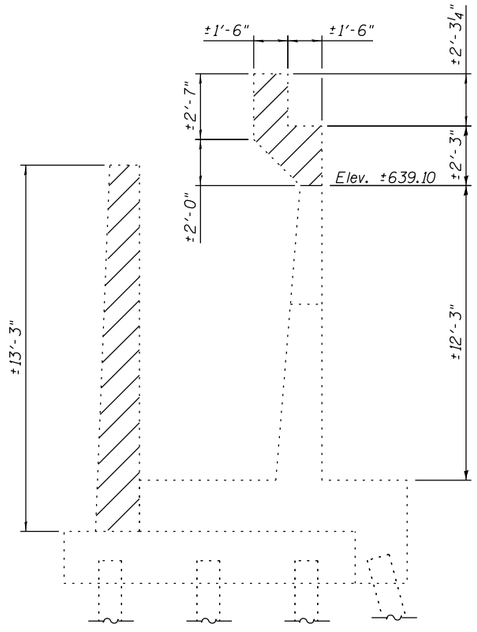
Legend

Concrete Removal

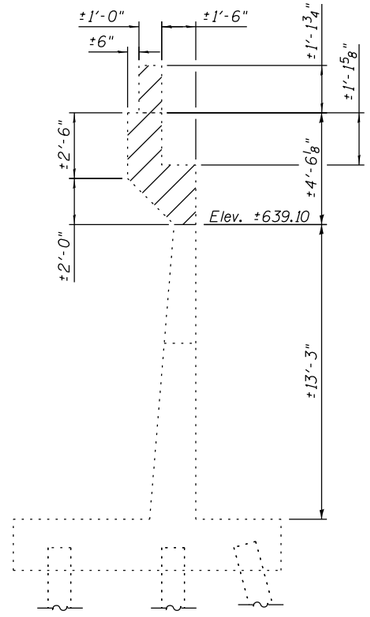
SOUTH ABUTMENT REMOVAL PLAN



SECTION F-F
(Looking West)



SECTION G-G
(Looking West)



SECTION H-H
(Looking West)

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	82

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PLOT DATE = 8/14/2014	CHECKED - KJL	REVISED	

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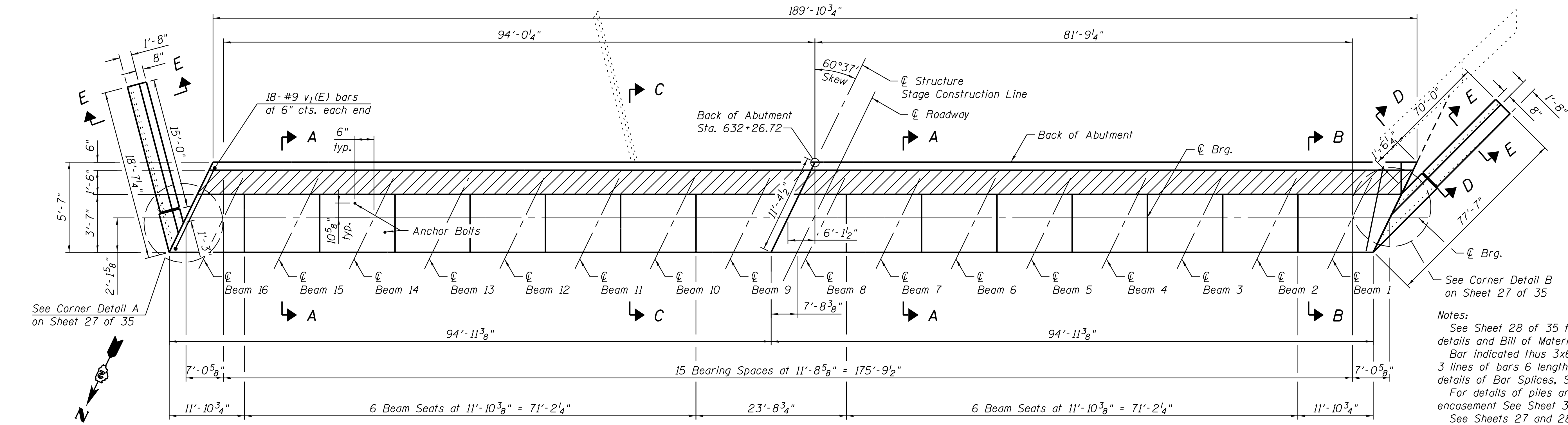
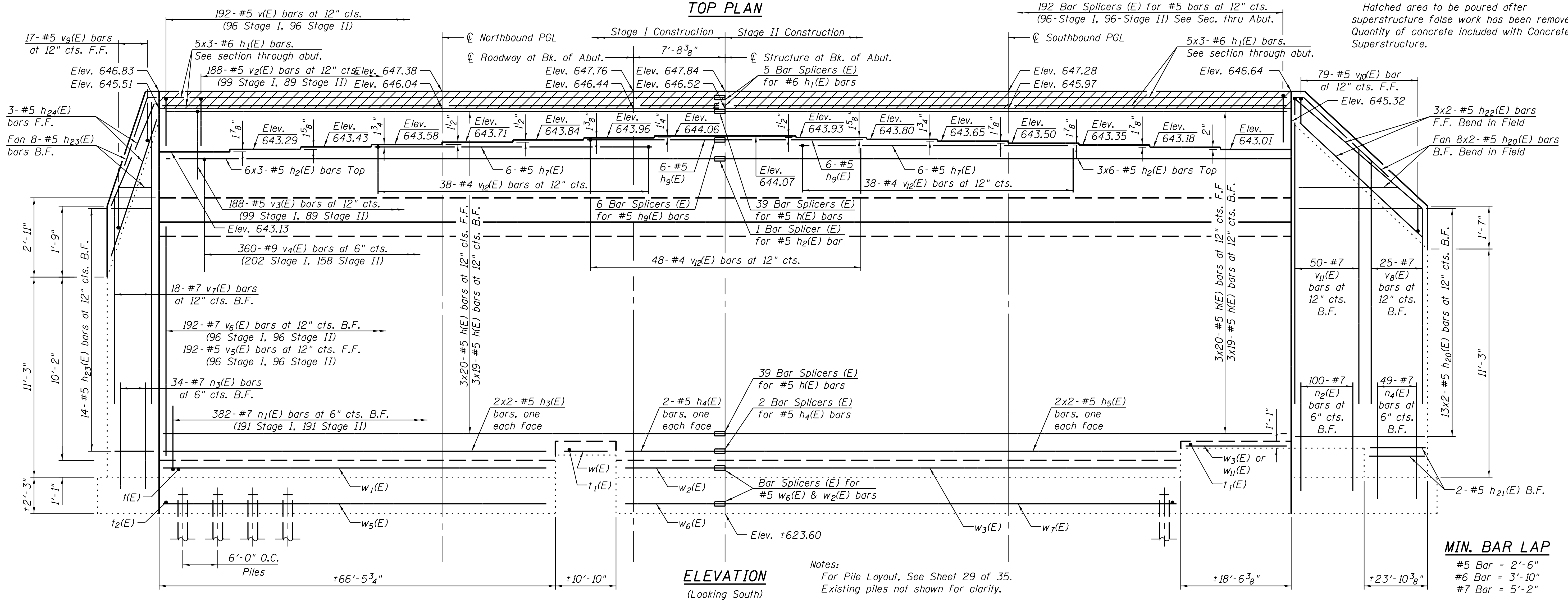
SOUTH ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 098-0015
SHEET NO. 25 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	84
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			



TOP PLAN

Notes:
See Sheet 28 of 35 for South Abutment details and Bill of Material.
Bar indicated thus 3x6-#5 etc. indicates 3 lines of bars 6 lengths per line. For details of Bar Splices, See Sheet 32 of 35.
For details of piles and concrete encasement See Sheet 30 of 35.
See Sheets 27 and 28 of 35 for Sections.
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.



ELEVATION
(Looking South)

Notes:
For Pile Layout, See Sheet 29 of 35.
Existing piles not shown for clarity.

MIN. BAR LAP
#5 Bar = 2'-6"
#6 Bar = 3'-10"
#7 Bar = 5'-2"

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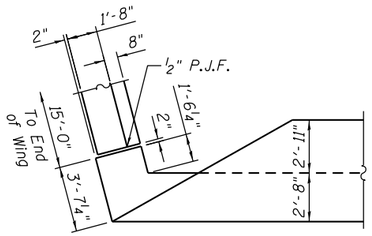
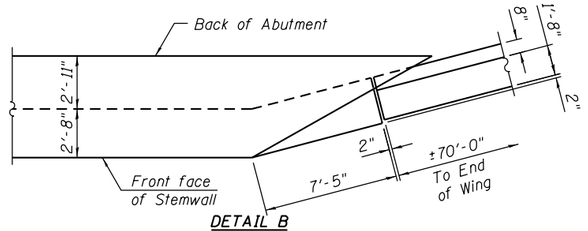
		PLOT SCALE =	DRAWN - BJF	REVISED	
		PLOT DATE = 8/14/2014	CHECKED - KJL	REVISED	

SOUTH ABUTMENT DETAILS (1 OF 3)
STRUCTURE NO. 098-0015
SHEET NO. 26 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	85
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		



DETAIL A

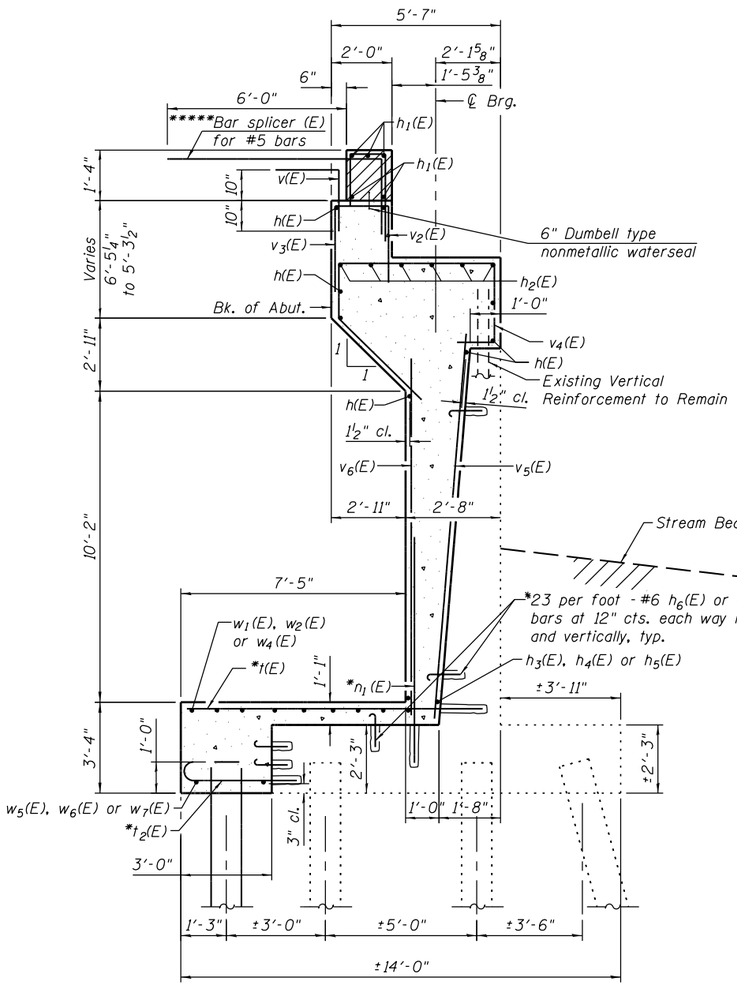


DETAIL B

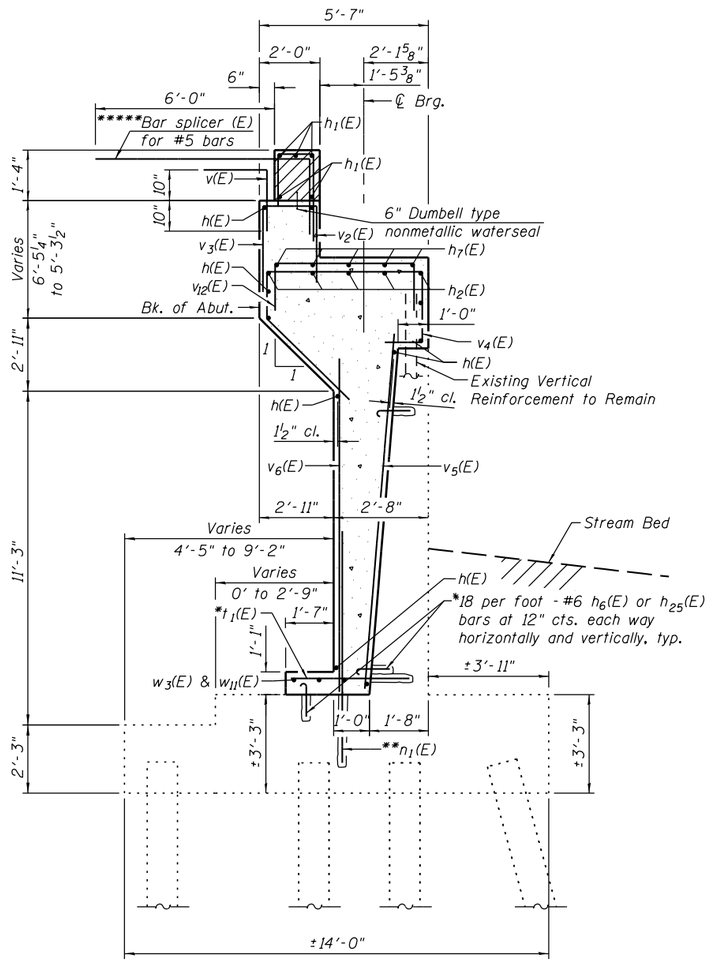
Note:
Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
On all sections, horizontal dimensions at right angles.

*****Align Bar Splicer parallel to approach slab reinforcement.

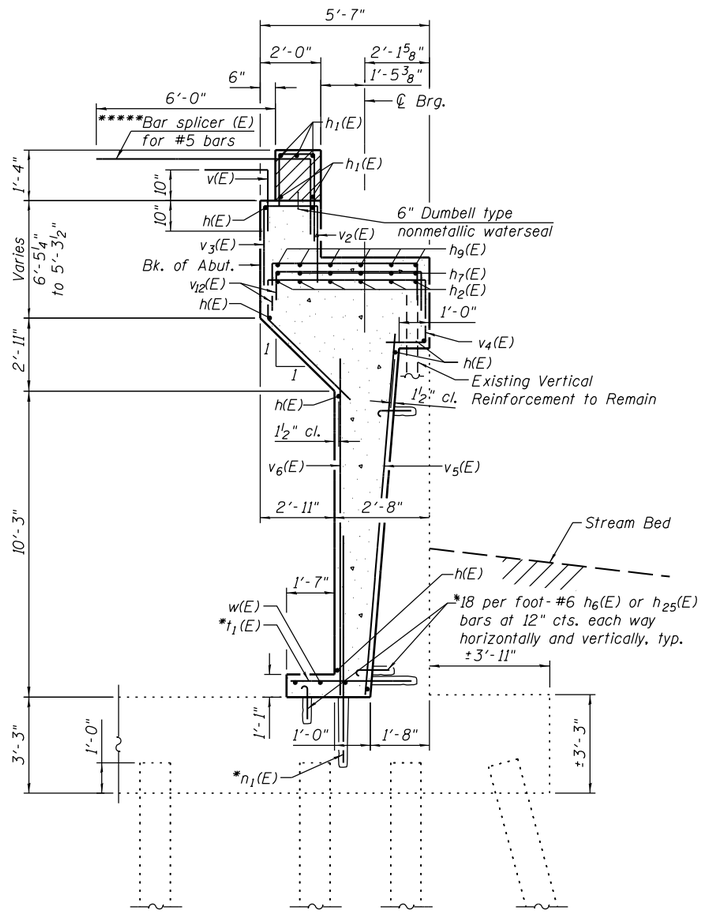
CORNER DETAILS



SECTION A-A



SECTION B-B



SECTION C-C

* Epoxy grout $h_6(E)$, $h_{25}(E)$, $t(E)$, $t_1(E)$, $t_2(E)$ and $n_1(E)$ bars in drilled holes of the depth specified by the manufacturer to achieve full tension capacity and according to Article 584 of the Standard Specifications. Bar lengths shown are based on 9 inch min. drilled holes. Actual bar lengths are required to be adjusted by the contractor before ordering of material.

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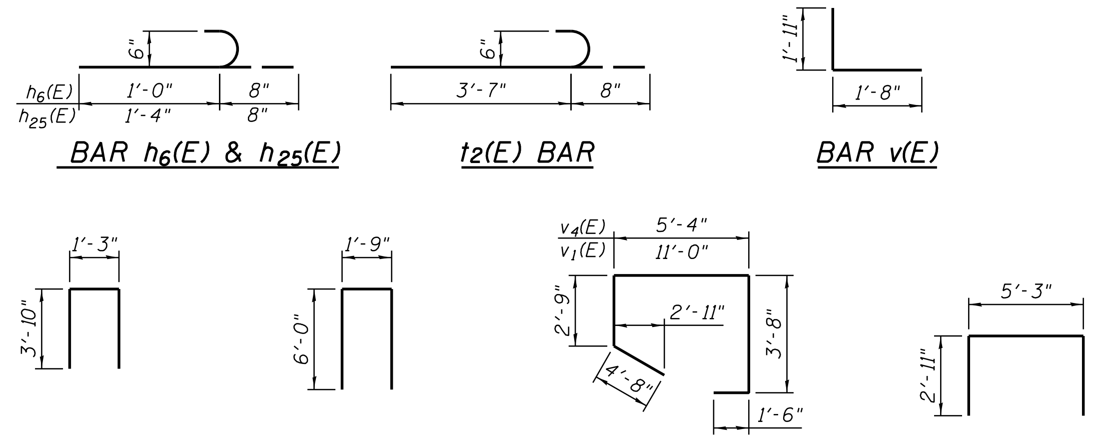
SOUTH ABUTMENT DETAILS (2 OF 3)
STRUCTURE NO. 098-0015
SHEET NO. 27 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	86
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			



BAR h_6(E) & h_{25}(E)

t_2(E) BAR

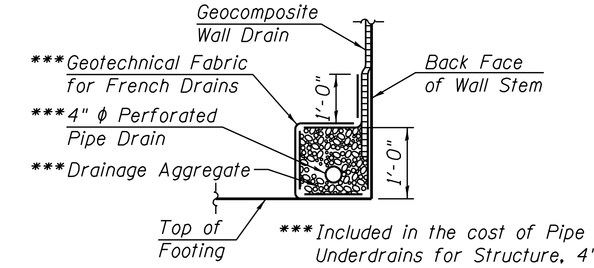
BAR v(E)

BAR v_2(E)

BAR v_3(E)

BAR v_1(E) & v_4(E)

BAR v_{12}(E)



PIPE UNDERDRAIN DETAIL

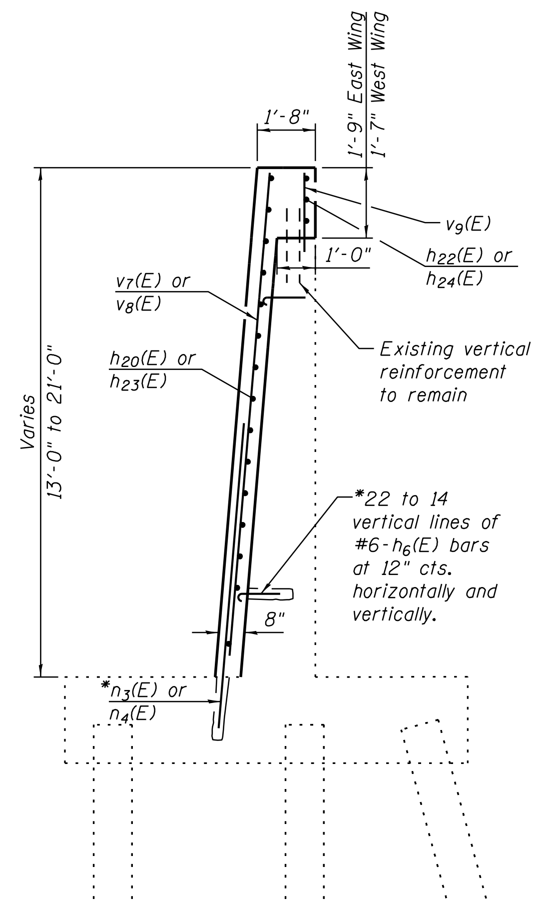
Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

Note:
Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
On all sections, horizontal dimensions at right angles.

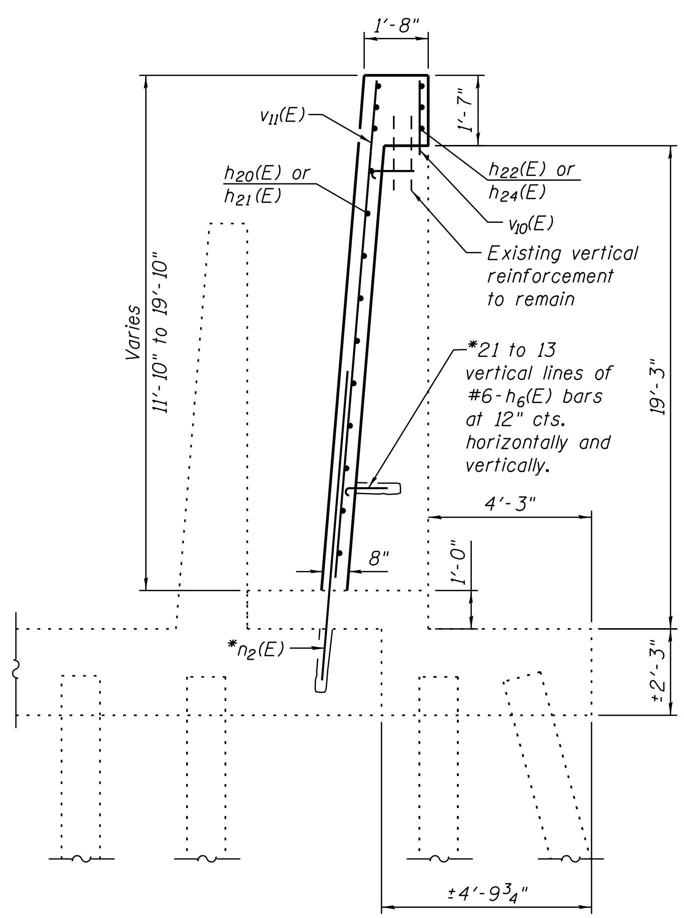
SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	234	#5	33'-3"	
h_1(E)	30	#6	34'-1"	
h_2(E)	36	#5	33'-3"	
h_3(E)	4	#5	34'-4"	
h_4(E)	2	#5	17'-3"	
h_5(E)	4	#5	39'-3"	
h_6(E)	1360	#6	1'-8"	
h_7(E)	12	#5	37'-11"	
h_9(E)	12	#5	23'-5"	
h_{20}(E)	42	#5	36'-1"	
h_{21}(E)	2	#5	23'-6"	
h_{22}(E)	6	#5	36'-5"	
h_{23}(E)	22	#5	14'-8"	
h_{24}(E)	3	#5	16'-8"	
h_{25}(E)	4261	#6	2'-0"	
n_1(E)	382	#7	7'-0"	
n_2(E)	100	#7	9'-2"	
n_3(E)	34	#7	13'-5"	
n_4(E)	49	#7	11'-7"	
t(E)	364	#6	9'-0"	
t_1(E)	40	#6	3'-2"	
t_2(E)	113	#6	4'-3"	
v(E)	192	#5	3'-7"	
v_1(E)	36	#9	23-7"	
v_2(E)	188	#5	8'-11"	
v_3(E)	188	#5	13'-9"	
v_4(E)	360	#9	17'-11"	
v_5(E)	192	#5	15'-7"	
v_6(E)	192	#7	14'-6"	
v_7(E)	18	#7	12'-8"	
v_8(E)	25	#7	12'-6"	
v_9(E)	17	#5	1'-5"	
v_{10}(E)	79	#5	1'-3"	
v_{11}(E)	50	#7	17'-8"	
v_{12}(E)	124	#4	11'-1"	
w(E)	4	#5	10'-6"	
w_1(E)	20	#5	33'-11"	
w_2(E)	10	#5	36'-10"	
w_3(E)	4	#5	18'-2"	
w_4(E)	20	#5	36'-4"	
w_5(E)	4	#5	36'-1"	
w_6(E)	2	#5	36'-10"	
w_7(E)	6	#5	25'-3"	
w_{11}(E)	6	#5	11'-7"	
Reinforcement Bars, Epoxy Coated		Pound		90,900
Concrete Structures		Cu. Yd.		489
Furnishing Steel Piles HP12x53		Foot		1,161
Driving Piles		Foot		1,161
Test Pile HP12x53		Each		1
Structure Excavation		Cu. Yd.		340
Concrete Sealer		Sq. Ft.		1,811
Geocomposite Wall Drain		Sq. Yd.		409
Granular Backfill for Structures		Cu. Yd.		545

For Bar Splicer Details See Sheet 32 of 35.
For Details of Piles and Concrete Encasement See Sheet 30 of 35.

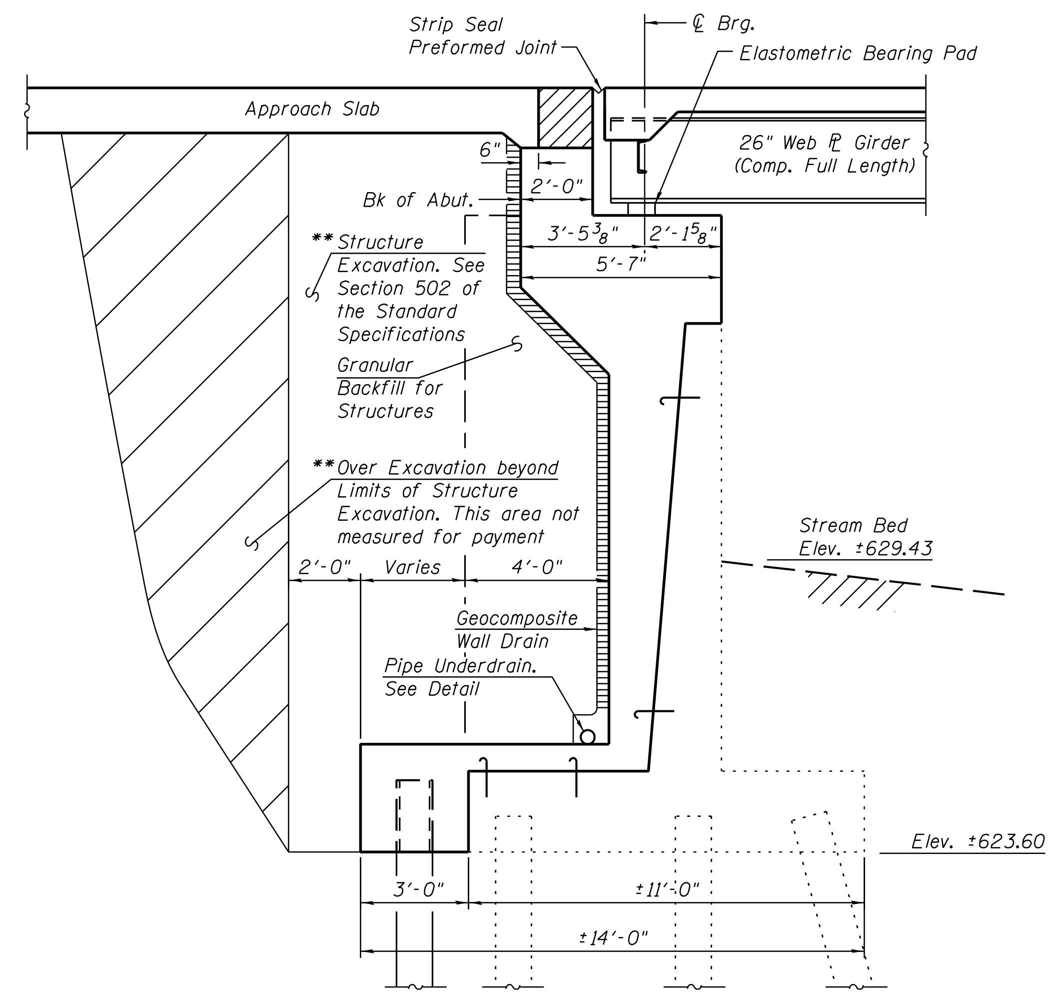


SECTION E-E



SECTION D-D

*Epoxy grout h_6(E), n_2(E), n_3(E) and n_4(E) bars in drilled holes of the depth specified by the manufacturer to achieve full tension capacity and according to Article 584 of the Standard Specifications. Bar lengths shown are based on 9 inch min. drilled holes. Actual bar lengths are required to be adjusted by the contractor before ordering of material.



SECTION THRU SOUTH ABUTMENT

** Backfil remainder of structure excavation and over excavation with same material specified for roadway embankment

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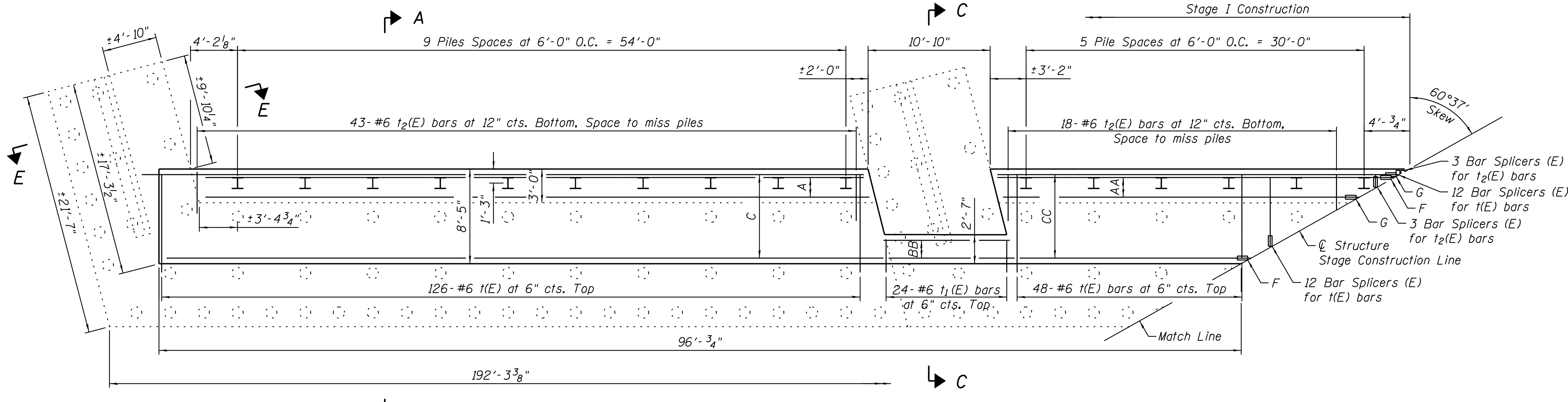
		CHECKED - AJS	REVISED		
	PLOT SCALE =	DRAWN - BJF	REVISED		
	PLOT DATE = 8/14/2014	CHECKED - KJL	REVISED		SHEET NO. 28 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	87
		CONTRACT NO. 64C17		
		ILLINOIS FED. AID PROJECT		

Notes:
See Sheet 28 of 35 for South Abutment details and Bill of Material.
Bar indicated thus 3x6-#5 etc. indicates 3 lines of bars 6 lengths per line. For details of Bar Splices, See Sheet 32 of 35.
For details of piles and concrete encasement See Sheet 30 of 35.
See Sheet 1 of 35 for location of overhead transmission lines. Contractor must communicate with Commonwealth Edison.

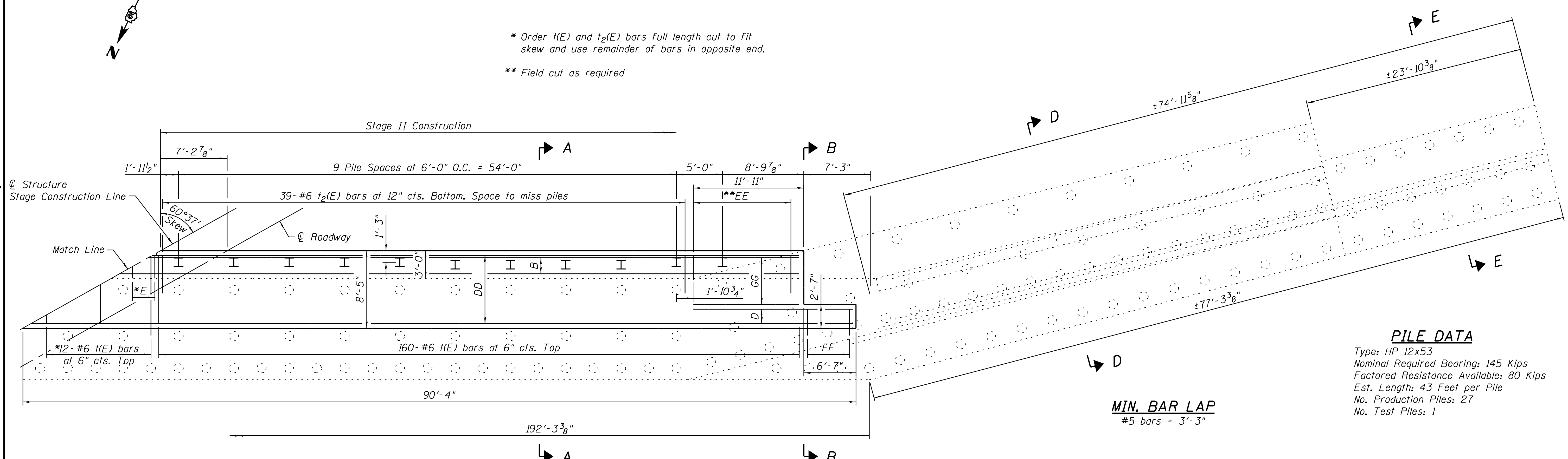
Designation	Note
A	2x2-#5 w_5(E) bars at 12" cts. Bottom
AA	2-#5 w_6(E) bars at 12" cts. Bottom
B	3x2 w_7(E) bars at 12" cts. Bottom
BB	4-#5 w(E) at 12" cts. Top
C	10x2-#5 w_1(E) bars at 12" cts. Top
CC	10-#5 w_2(E) Bars at 12" cts. Top. Cut in field to fit skew
D	4-#5 w_3(E) bars at 12" cts. Top
DD	10x2-#5 w_4(E) bars at 12" cts. Top
E	3-#6 t_2(E) bars at 12" cts. Bottom
EE	10-#6 t_2(E) bars at 12" cts. Bottom. Space to miss piles.
F	10 Bar Splicers (E) for w_2(E) bars
FF	16-#6 t_1(E) bars at 6" cts. Top
G	2 Bar Splicers (E) for w_6(E) bars
GG	6-#5 w_{11}(E) bars at 12" cts. Top



SOUTH ABUTMENT FOOTING PLAN

* Order t(E) and t_2(E) bars full length cut to fit skew and use remainder of bars in opposite end.

** Field cut as required



SOUTH ABUTMENT FOOTING PLAN

MIN. BAR LAP
#5 bars = 3'-3"

PILE DATA
Type: HP 12x53
Nominal Required Bearing: 145 Kips
Factored Resistance Available: 80 Kips
Est. Length: 43 Feet per Pile
No. Production Piles: 27
No. Test Piles: 1

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-027-SABUT4.dgn

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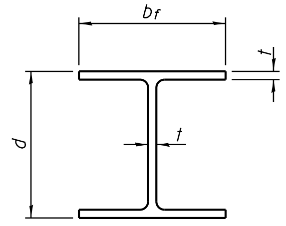
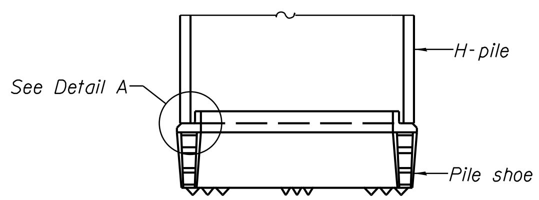
SOUTH ABUTMENT FOOTING PLAN
STRUCTURE NO. 098-0015
SHEET NO. 29 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	88
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

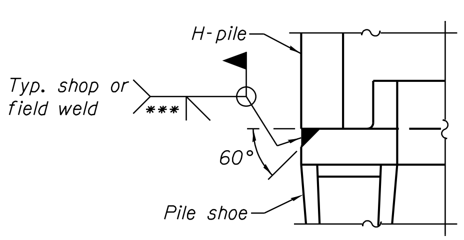


STEEL PILE TABLE

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

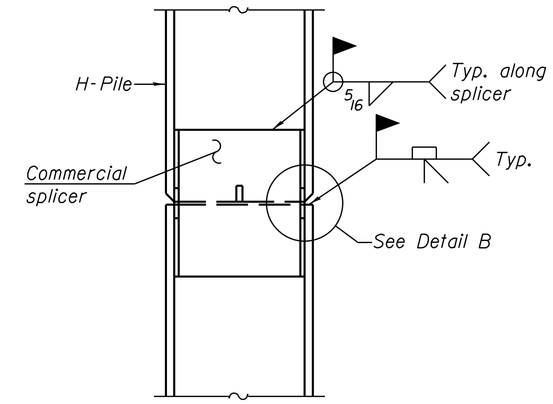


ELEVATION

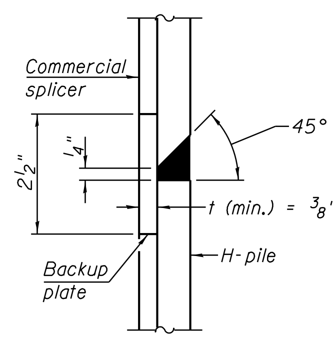


DETAIL A

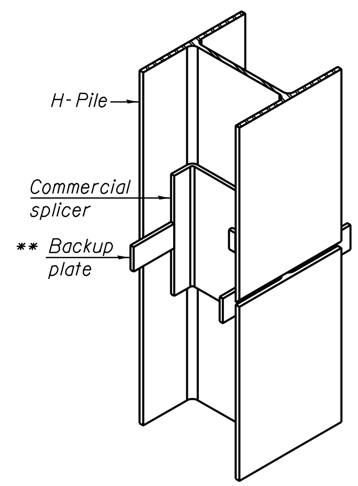
H-PILE SHOE ATTACHMENT



ELEVATION

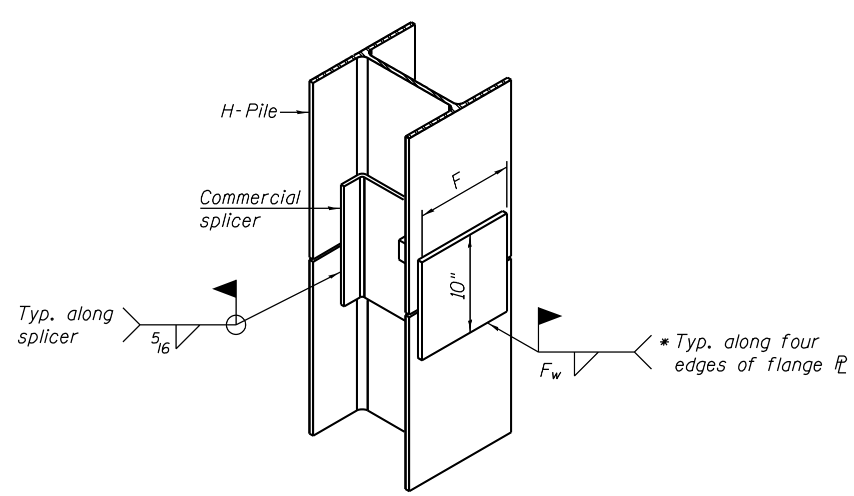


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



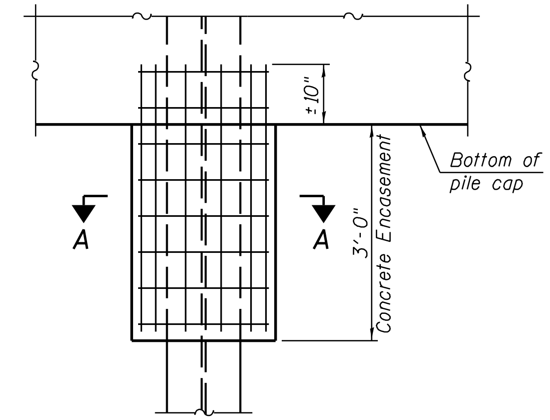
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

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

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



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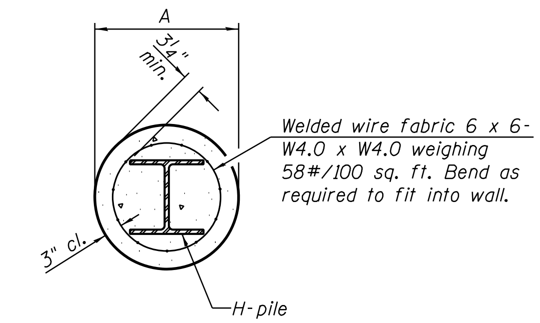
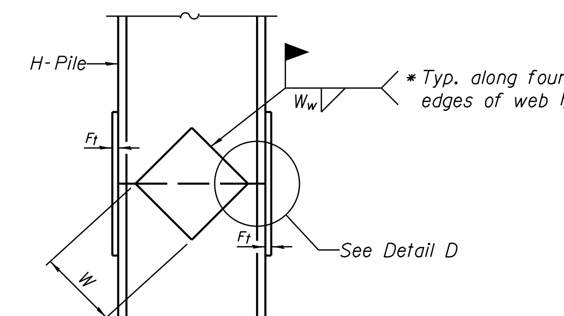


Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT



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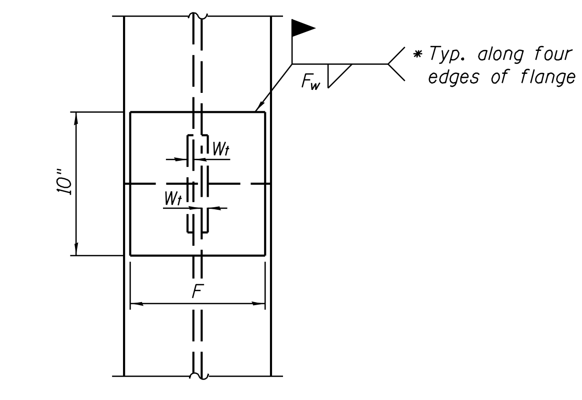
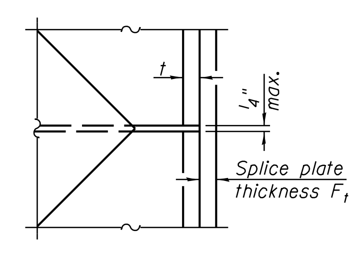


END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_f	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

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

F-HP 1-27-12

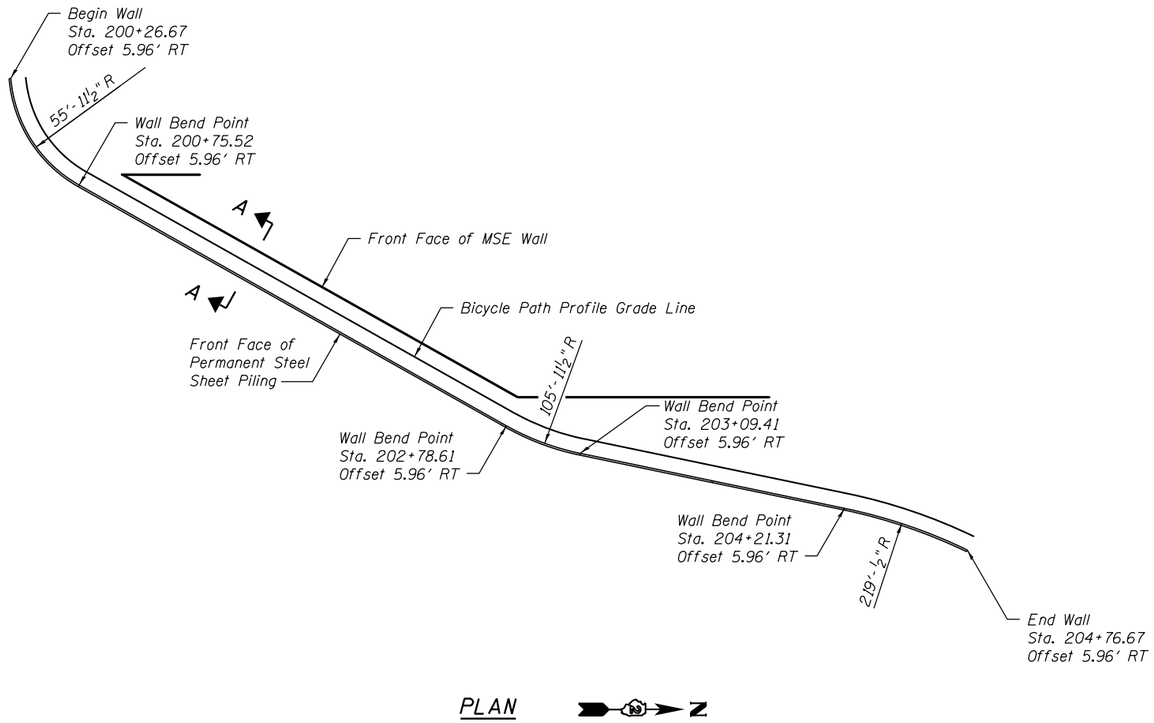
FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-028-HPILE.dgn

STRAND ASSOCIATES 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - AJS	REVISED	
	PLOT SCALE =	DRAWN - BJF	REVISED	
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

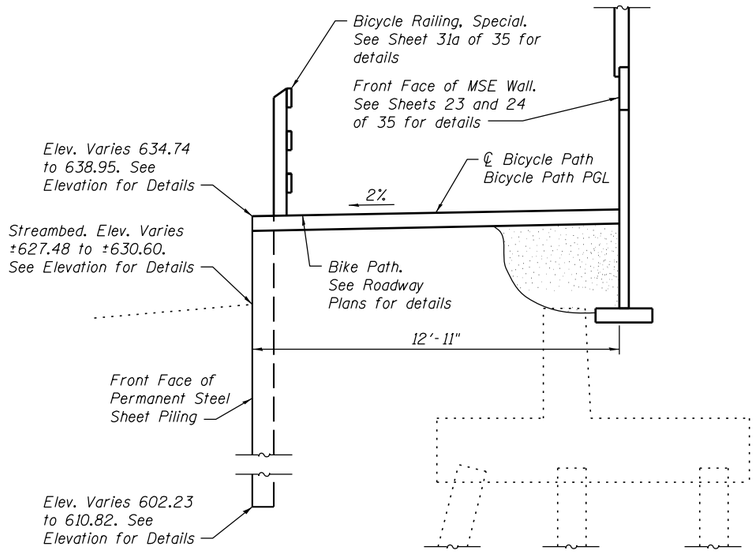
HP PILE DETAILS
STRUCTURE NO. 098-0015
SHEET NO. 30 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	89

CONTRACT NO. 64C17
ILLINOIS FED. AID PROJECT

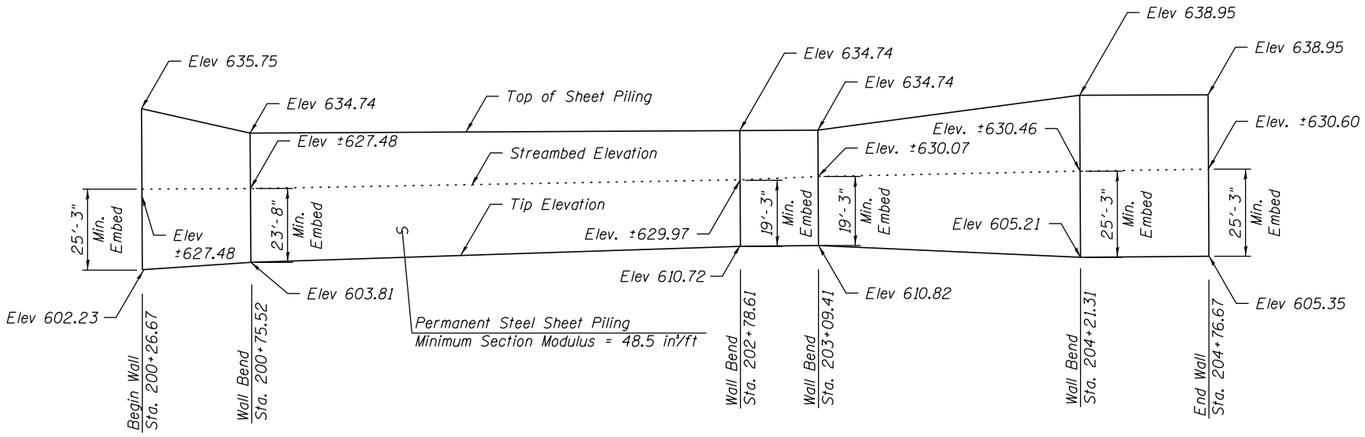


PLAN



SECTION A-A
(Looking East)
(Horizontal Dimensions @ Rt. ∠'s)

Note:
See Sheet 1 of 35 for location of overhead transmission lines. Contractor must communicate with Commonwealth Edison.



ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Permanent Steel Sheet Piling	Sq Ft.	12,893

FILE NAME = s:\jol\6300-6399\6346\025\micros\Sht\Structural Plans\09080015-64C17-029-SPILE.dgn

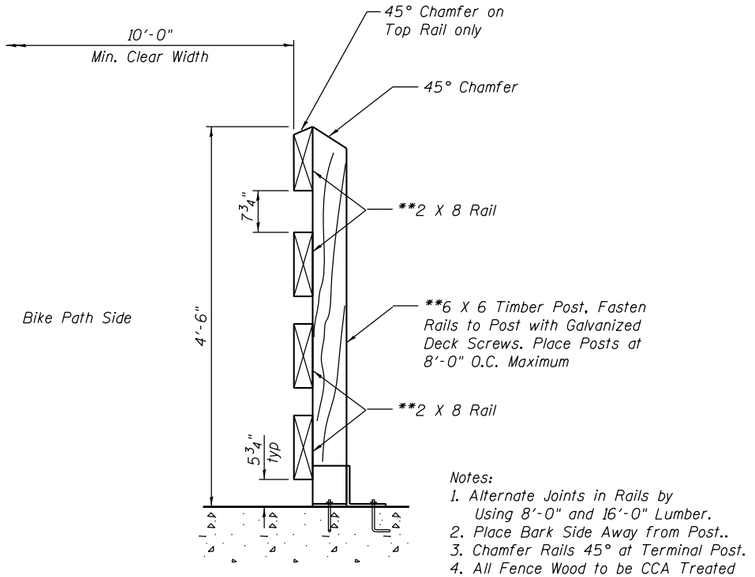
STRAND ASSOCIATES®
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

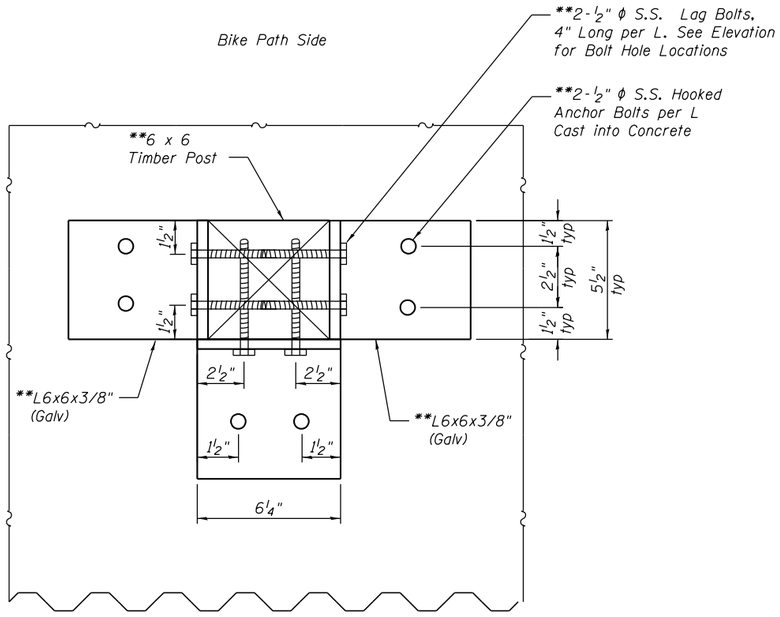
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT SHEET PILE WALL (1 of 2)
STRUCTURE NO. 098-0015
SHEET NO. 31 OF 35 SHEETS

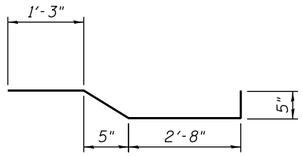
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	90
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			



Notes:
1. Alternate Joints in Rails by Using 8'-0" and 16'-0" Lumber.
2. Place Bark Side Away from Post..
3. Chamfer Rails 45° at Terminal Post.
4. All Fence Wood to be CCA Treated PINE #2 Common or Better.
5. The Clear Opening Between Elements Shall be such that a 6" Sphere Shall Not Pass Through the Lower 2'-3" of the Railing and a 8" Sphere Shall not Pass Through the Upper Portion of the Railing.



POST MOUNTING DETAIL-PLAN VIEW



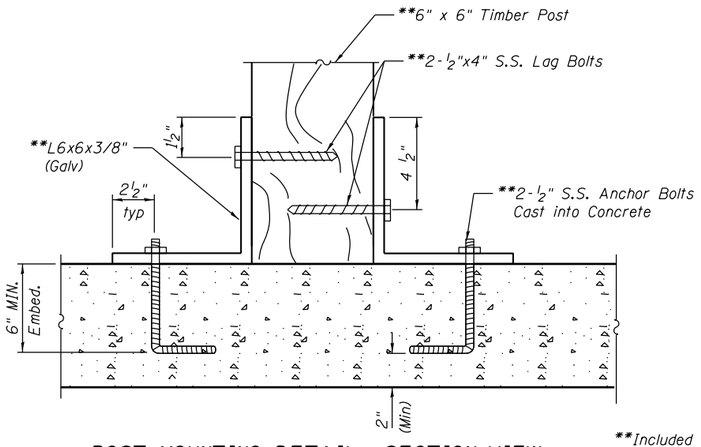
c(E) bars

MIN. BAR LAP

#4 bar = 1'-3"

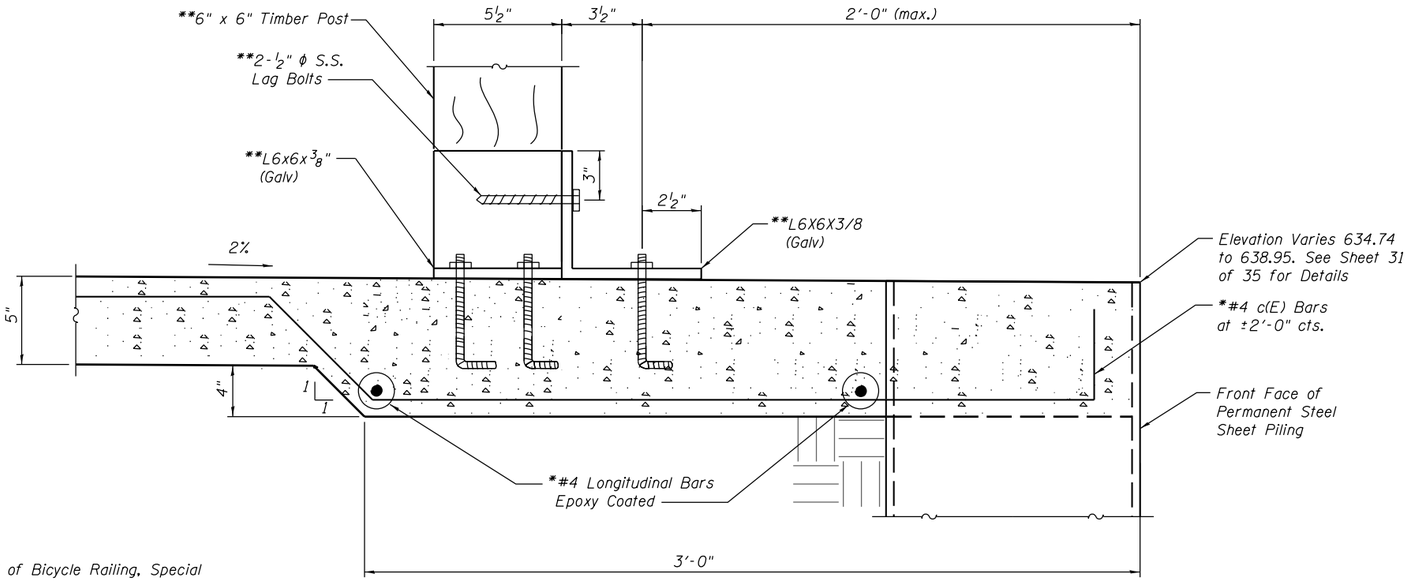
BICYCLE RAILING, SPECIAL SECTION (TYP.)

(See Roadway Plans for Quantities)



POST MOUNTING DETAIL- SECTION VIEW

**Included in the Cost of Bicycle Railing, Special



*Included in the Cost of PCC Sidewalk, 5"

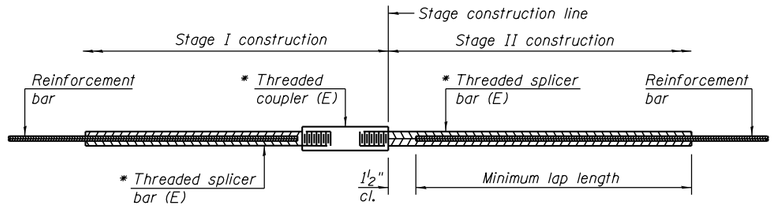
POST MOUNTING DETAIL-ELEVATION VIEW

FILE NAME = s:\pl\6300-6399\6346\025\micros\Shts\Structural Plans\0980015-64C17-029-SPILE2.dgn

STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - AJS	REVISED	
	PLOT SCALE =	DRAWN - BJF	REVISED	
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

PERMANENT SHEET PILE WALL (2 of 2)
STRUCTURE NO. 098-0015
SHEET NO. 31A OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	91
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			



STANDARD BAR SPLICER ASSEMBLY

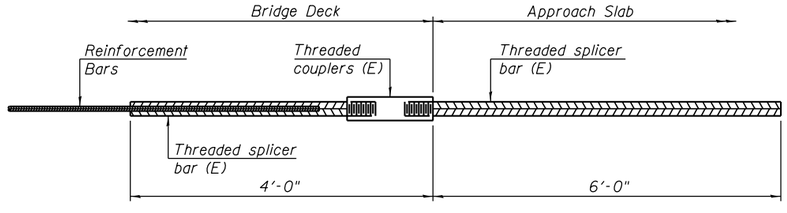
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

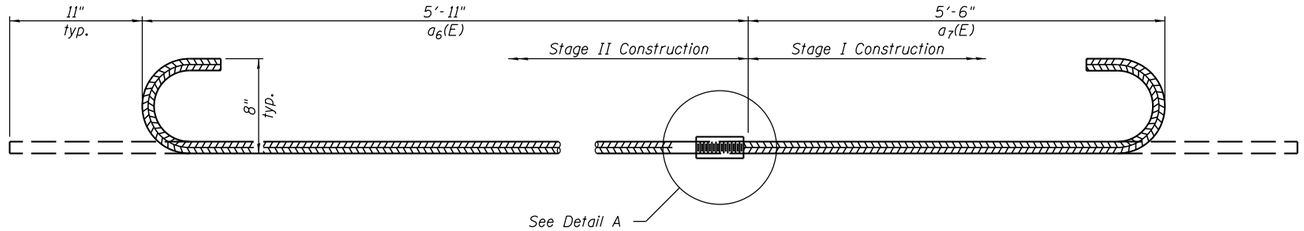
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	223	Table 3
North Abutment	#5	3	Table 5
North Abutment	#6	6	Table 5
North Abutment	#7	22	Table 5
South Abutment	#5	53	Table 5
South Abutment	#6	26	Table 5
North Approach Slab	#4	71	Table 3
North Approach Slab	#5	40	Table 3
South Approach Slab	#4	71	Table 3
South Approach Slab	#5	40	Table 3



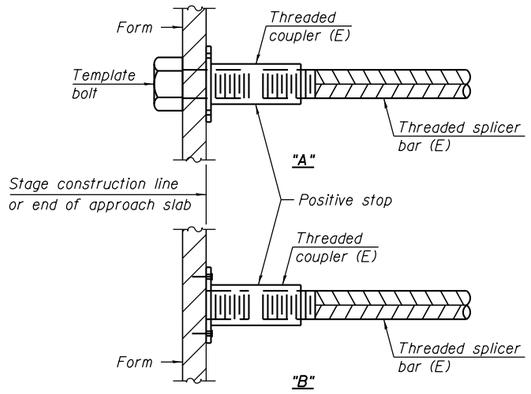
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



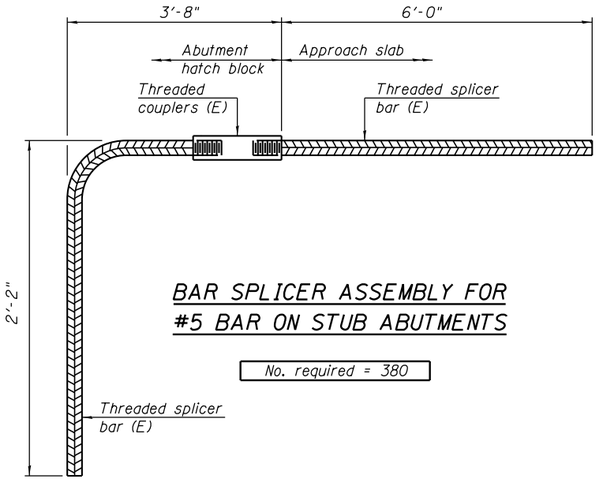
#8-a6(E) & a7(E) BAR SPLICER ASSEMBLY FOR EDGE BEAMS AT STAGE CONSTRUCTION JOINT

No. required = 6



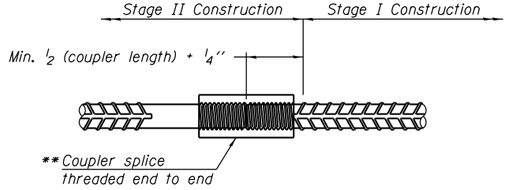
INSTALLATION AND SETTING METHODS

"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.



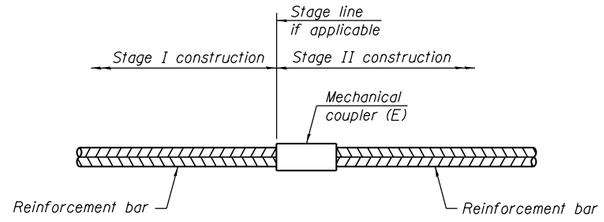
BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 380



DETAIL A

** The bar splicer assembly shall allow completion of the splice without turning of the hook bars. The stage II splice bar shall be threaded such that the entire coupler can be threaded onto the splice bar.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

NOTES

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

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

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

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

FILE NAME = s:\jol\6388-6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-038-SPLICE.dgn

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER AND ASSEMBLY DETAILS
STRUCTURE NO. 098-0015
SHEET NO. 32 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	92
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

Boring Information taken from Design Drawings:
Elevation 645.20 feet, Station 633+02.28, Offset 10.1 LT

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 1/4/07

ROUTE FAP 646 DESCRIPTION P92-045-06 Bridge over I & M Feeder Canal, IL 40 LOGGED BY Wally Garza

SECTION 101 BR-3 LOCATION Coloma Twp. - 33 SE, SEC. , TWP. 21N, RNG. 7E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 098-0015
Station

BORING NO. B-1
Station 78+02
Offset 10.00ft Lt Med. CL
Ground Surface Elev. 99.20 ft

Surface Water Elev. ___ ft
Stream Bed Elev. 82.00 ft

Groundwater Elev.:
First Encounter 81.7 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark gray LOAM	96.70			0.5	15.0
MEDIUM/STIFF black LOAM	95.20		6 6 8	1.0 S	11.0
STIFF dark brown SANDY LOAM	92.70	-5	8 8 9	1.1 S	11.0
STIFF dark brown SANDY LOAM	90.20		3 4 6	1.5 S	15.0
STIFF dark gray LOAM	87.70	-10	3 7 9	1.9 P	15.0
STIFF dark gray SANDY LOAM	85.20		2 5 7	1.2 S	18.0
MEDIUM gray SILTY LOAM with 12% ORGANICS	82.20	-15	1 2 3	0.9 B	53.0
MEDIUM gray fine SAND ▼	80.20		3 8 6		
		-20			
LOOSE gray fine SAND	77.70		0 2 4		
LOOSE gray fine SAND	75.20		0 2 3		
LOOSE gray dirty SAND & GRAVEL	72.70	-25	2 2 4		
MEDIUM gray SAND & GRAVEL	70.20		13 11 7		
Wash MEDIUM gray SAND & GRAVEL	67.70	-30	5 7 8		
Wash MEDIUM gray clean medium coarse SAND	65.20		3 6 7		
MEDIUM gray clean medium coarse SAND with medium GRAVEL	62.70	-35	3 5 6		
LOOSE/MEDIUM gray clean medium coarse SAND with medium GRAVEL	60.20		3 4 6		
		-40			

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)

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 1/4/07

ROUTE FAP 646 DESCRIPTION P92-045-06 Bridge over I & M Feeder Canal, IL 40 LOGGED BY Wally Garza

SECTION 101 BR-3 LOCATION Coloma Twp. - 33 SE, SEC. , TWP. 21N, RNG. 7E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 098-0015
Station

BORING NO. B-1
Station 78+02
Offset 10.00ft Lt Med. CL
Ground Surface Elev. 99.20 ft

Surface Water Elev. ___ ft
Stream Bed Elev. 82.00 ft

Groundwater Elev.:
First Encounter 81.7 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM gray clean medium coarse SAND	57.70		3 6 10		
Wash MEDIUM gray clean medium coarse SAND	55.20		5 8 14		
Wash MEDIUM gray fine SAND	52.70	-45	5 12 14		
Wash MEDIUM gray fine SAND	50.20		1 5 8		
Wash MEDIUM gray medium clean SAND	47.70	-50	4 9 14		
Wash MEDIUM gray medium clean SAND	45.20		3 4 7		
Wash MEDIUM gray medium clean SAND	42.70	-55	2 3 7		
Wash DENSE gray fine SAND	40.20		7 12 32		
		-60			
Wash MEDIUM gray fine SAND	37.70		16 10 10		
Wash MEDIUM gray SAND & GRAVEL	35.20		3 7 7		
MEDIUM tan fine SAND	32.70	-65	7 6 12		
MEDIUM tan fine SAND	30.20		11 12 16		
VERY DENSE tan fine SAND with LIMESTONE fragments	27.20	-70	40 35 35		
DENSE tan weathered LIMESTONE	25.20		20 17 21		
VERY DENSE tan weathered LIMESTONE	22.70	-75	18 100/9"		
End of Boring		-80			

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)

FILE NAME = s:\jol\6300--6399\6346\025\micros\Sht\Structural Plans\0980015-64C17-031-SBL.dgn

Boring Information taken from Design Drawings:
Elevation 646.0 feet, Station 631+82.00, Offset 4.0 RT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 1/4/07

ROUTE FAP 646 DESCRIPTION P92-045-06 Bridge over I & M Feeder Canal, IL 40 LOGGED BY Wally Garza

SECTION 101 BR-3 LOCATION Coloma Twp. - 33 SE, **SEC.** , **TWP.** 21N, **RNG.** 7E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 098-0015
Station

BORING NO. B-2
Station 79+50
Offset 0.00ft Ctr. of Median
Ground Surface Elev. 100.00 ft

Surface Water Elev. ft
Stream Bed Elev. 82.00 ft

Groundwater Elev.:
First Encounter 82.5 ft ▼
Upon Completion 94.0 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Auger boring completed due to presence of high-power lines.
				BROWN sandy ROAD ROCK
97.00				
		2.3 P	22.0	VERY STIFF dark brown SANDY CLAY LOAM
95.00 -5				
		2.0 P	13.0	VERY STIFF dark brown SANDY LOAM ▽
92.50				
		1.3 P	19.0	STIFF dark brown SANDY LOAM
90.00 -10				
		0.5 P	14.0	MEDIUM dark brown SANDY LOAM
87.50				
		0.5 P	20.0	MEDIUM dark brown SANDY LOAM
-15				
84.50				LOOSE dark gray dirty medium SAND
82.50 ▼				LOOSE gray fluid medium SAND
80.00 -20				
				MEDIUM tan clean medium SAND
75.00 -25				
				MEDIUM tan gray clean medium SAND with GRAVEL
70.00 -30				
				MEDIUM tan-gray, clean, medium SAND with GRAVEL
				Smooth, easy drilling down to 58'.
-35				
-40				

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)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 1/4/07

ROUTE FAP 646 DESCRIPTION P92-045-06 Bridge over I & M Feeder Canal, IL 40 LOGGED BY Wally Garza

SECTION 101 BR-3 LOCATION Coloma Twp. - 33 SE, **SEC.** , **TWP.** 21N, **RNG.** 7E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 098-0015
Station

BORING NO. B-2
Station 79+50
Offset 0.00ft Ctr. of Median
Ground Surface Elev. 100.00 ft

Surface Water Elev. ft
Stream Bed Elev. 82.00 ft

Groundwater Elev.:
First Encounter 82.5 ft ▼
Upon Completion 94.0 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				MEDIUM tan-gray, clean, medium SAND with GRAVEL
				Smooth, easy drilling down to 58'. *(continued)*
-45				
-50				
47.00				Rough Med Drilling to 60'
-55				
40.00 -60				End of Boring

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)

FILE NAME = s:\jobs\6388-6399\6396\025\micros\Sht\Structural Plans\098D015-64C17-031-SBL.dgn

STRAND ASSOCIATES® 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG (2 OF 2)
STRUCTURE NO. 098-0015
SHEET NO. 34 OF 35 SHEETS

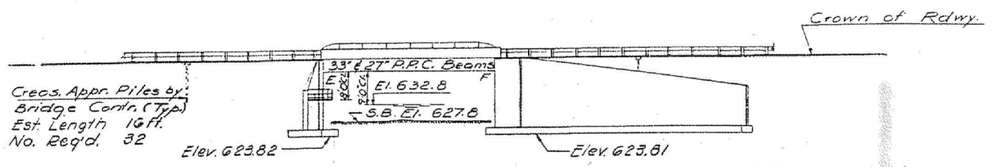
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	94
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 403	101 BY	WHITESIDE	589	270
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

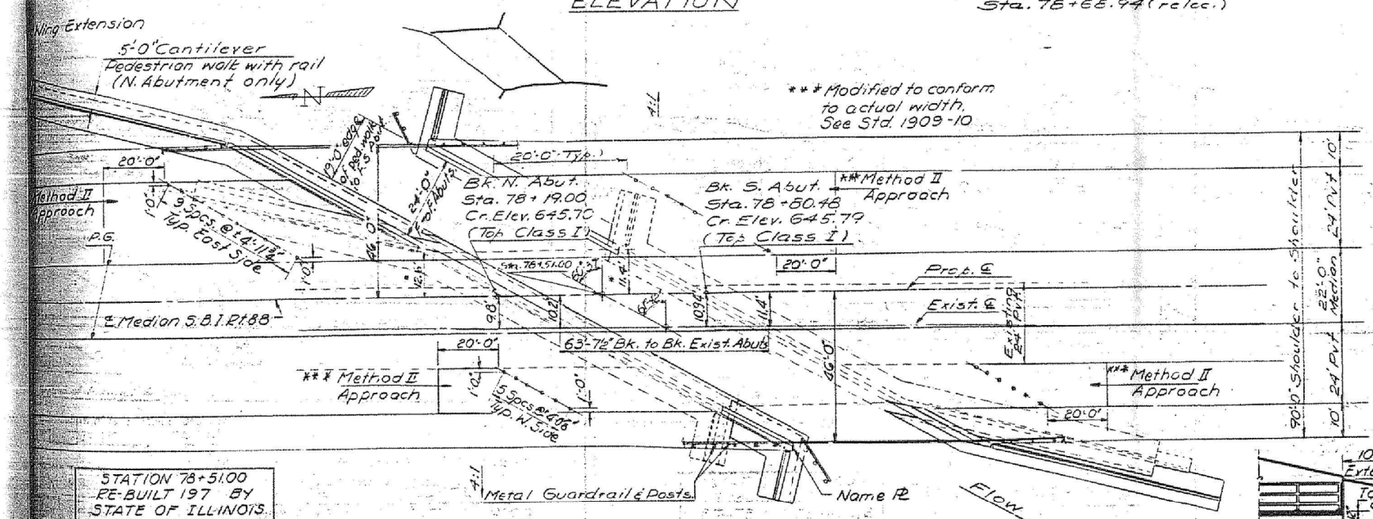
SHEET NO. 1
11 SHEETS

Existing Structure: Built as S.B.I. Rte. 88 Sec. 101 B-1 at Sta. 78+50 in 1964. Existing spread P.P.C. Bms. with 7" concrete slab superstructure and R.C. abuts. will be widened in kind. Traffic shall be maintained over the existing structure during construction.



ELEVATION

STA EQN:
Sta. 78+50 (exist.) = Sta. 78+68.94 (reloc.)

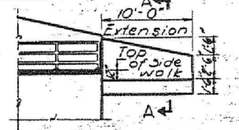


* Field Measurements (& prop. Rdwy to Face Exist. Curbs at Back of Abutments)

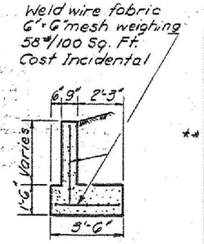
STATION 78+51.00
RE-BUILT 197 BY
STATE OF ILLINOIS
S.B.I. Rt. 88 SEC. 101 BY
LOADING HS 20

NAME PLATE
See Std. 2113

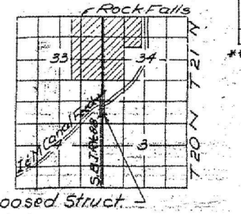
PLAN



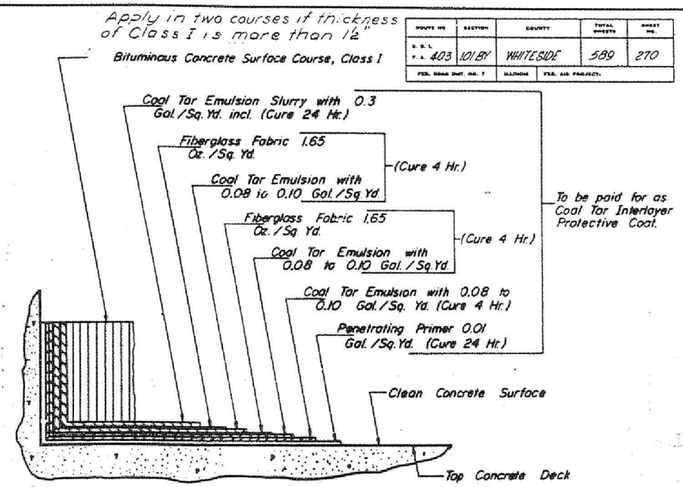
ELEVATION-WING EXTENSION
2.9 Cu. Yds. Class X Concrete included in Substructure Quantities.



SEC. A-A



LOCATION SKETCH



DETAIL OF DECK SURFACING

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.

Expansion bolts shall consist of self drilling expansion anchors and ¾"ø hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.

The concrete rail section above the mandatory construction joint at the top of the slab & top of P.P.C. Bms. shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

The Basic Lead Silico-Chromate paint system shall be used for shop painting of structural steel.

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

Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.

BILL OF MATERIALS

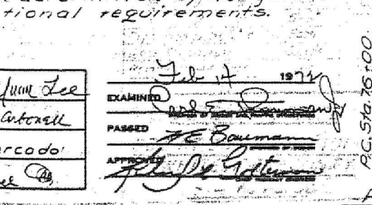
Item	Unit	Super	Sub	Total
Timber Buffers Complete	L Sum.			L Sum.
Structure Excavation	Cu Yds.			760
Bituminous Concrete Surf. Cse Class I	Tons	45		45
Concrete Removal	Cu Yds.	11	344	459
Expansion Bolts (¾"ø)	Each	111	511	622
** Class X Concrete	Cu Yds	64.2	657.6	721.8
P.P.C. Deck Bms (27")	Sq. Ft.	1483		1483
P.P.C. Deck Bms (33")	Sq. Ft.	494		494
Aluminum Railing	Lin. Ft.	112		112
Reinforcement Bars	Lbs.	8540	71470	80010
Coal Tar Interlayer Protect. Coat	Sq. Yds	448		448
Name Plates	Each		1	1
Preformed Joint Sealer	Lin. Ft.	184		184
Structural Steel	Lbs.	3580		3580
Untreated Piles (Up to 30')	Lin. Ft.		5628	5628
Test Piles (Timber)	Each		4	4
Protective Coat	Sq. Yds.	42		42
Creosoted Piles (Up to 20')	Lin. Ft.			512

** Includes 2.9 Cu. Yds. Wing Extension.

PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,000 psi
fs = 248,000 psi (7/16" strands)
fsi = 173,600 psi (7/16" strands)

FIELD UNITS
fc = 1200 psi (super)
fc = 1000 psi (sub)
fs = 20000 psi (Reinf.)
n = 10

New Constr. Loading HS 20-44



PROFILE S.B.I. RTE. 88
Top of Class I @ edge of pavement.

WATERWAY INFORMATION
Flow controlled and W.W. opening has been determined by navigation & recreational requirements.

DESIGNED Ann-Yuan Lee
CHECKED [illegible]
DRAWN E. Mercado
CHECKED H.Y. Lee

EXAMINED Feb. 4 1974
PASSED [illegible]
APPROVED [illegible]

GENERAL PLAN & ELEVATION
S.B.I. RT. 88 OVER I & M CANAL
S.B.I. RT. 88 (F.A. 40) SEC. 101 BY
WHITESIDE COUNTY
STA. 78+51.00

For Information only

FILE NAME = s:\jol\6388-6399\6346\025\micros\Sht\Structural Plans\098001S-64C17-033-EGPE.dgn

SA STRAND ASSOCIATES®	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273		
USER NAME = brianf	DESIGNED - RRD	REVISED	
	CHECKED - AJS	REVISED	
PLOT SCALE =	DRAWN - BJF	REVISED	
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-0015
SHEET NO. 35 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	95
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

D-145

CONTRACT NO. 64C67

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	17	1

*FAP 646 & FAP 638
**101BY-D & 137-1B-D
***WHITESIDE & HENRY

D-92-116-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 646 (IL 40) & FAP 638 (IL 82)
SECTION 101BY-D & 137-1B-D
WHITESIDE & HENRY COUNTY
C-92-151-06

INDEX OF SHEETS

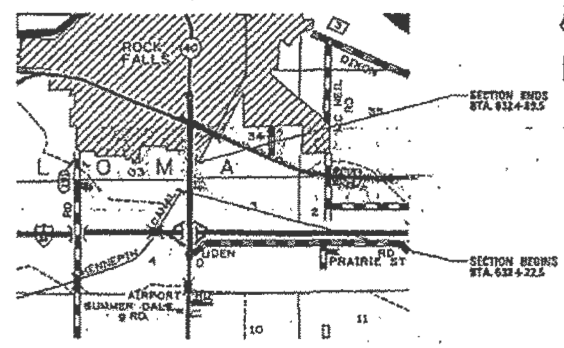
STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701423-01	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR > 45 MPH TO 55 MPH
702001-06	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
780001-01	TYPICAL PAVEMENT MARKINGS

PROJECT ENGINEER
MAHMOUD ETEMADI
PHONE: (815) 284-5393

SQUAD LEADER
AHMAD EL-AHMAD
PHONE: (815) 284-5994

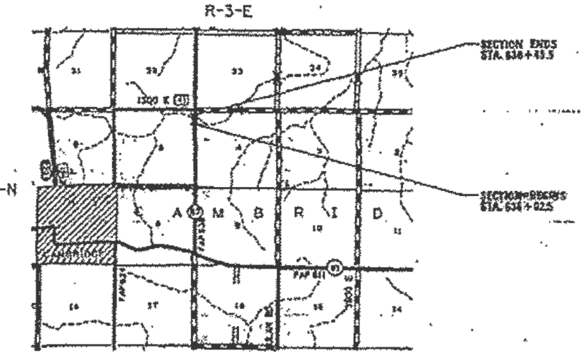
R-6-7-E



WHITESIDE COUNTY

N

R-3-E



HENRY COUNTY

FOR INFORMATION ONLY

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

GROSS LENGTH OF SECTION = 63 FEET = 0.0119 MILES (WHITESIDE)
GROSS LENGTH OF SECTION = 43 FEET = 0.008 MILES (HENRY)
NET LENGTH OF SECTION = 63 FEET = 0.0119 MILES (WHITESIDE)
NET LENGTH OF SECTION = 43 FEET = 0.008 MILES (HENRY)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 10 2006
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
August 18, 2006
ENGINEER OF DESIGN AND ENVIRONMENT
August 18, 2006
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

WHITESIDE COUNTY
STERLING & COLOMA, SECTION 30 & 31, T. 21-N. & R-6-7-E.
HENRY COUNTY
CAMBRIDGE, SECTION 15, T. 15-N. & R-3-E.

CONTRACT NO. 64C67

100' 200' 300' — 1" = 100'
10' 20' 30' — 1" = 10'
50' 100' — 1" = 20'

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON

FILE NAME = s:\jol\6300--6399\6346\025\Microstn\Structural Plans\098001S-64C17-034-EPLANS.dgn

STRAND ASSOCIATES	1170 SOUTH HOUBOLT ROAD, JOLIET, ILLINOIS 60431, (815) 744-4200, IDFPR NO. 184-001273	USER NAME = brianf / PLOT SCALE = / PLOT DATE = 8/14/2014	DESIGNED - RRD / CHECKED - AJS / DRAWN - BJF / CHECKED - RRD	REVISED / REVISED / REVISED / REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING GENERAL PLAN AND ELEVATION STRUCTURE NO. 098-0015 SHEET NO. 1 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	96

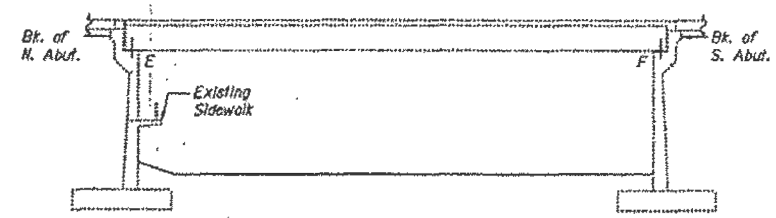
CONTRACT NO. 64C17

ILLINOIS FED. AID PROJECT

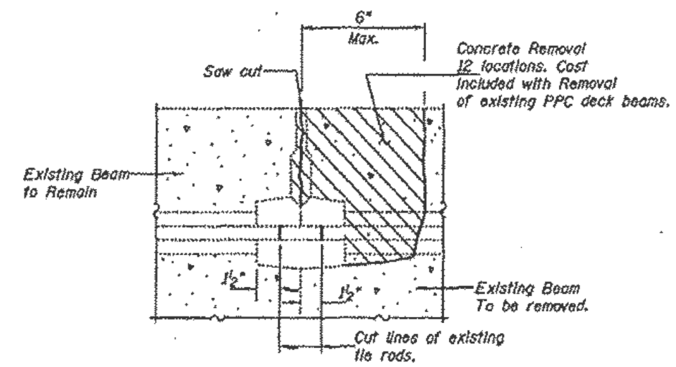
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		Whiteside	-	7-	SHEET NO. 1 / 3 SHEETS

Contract Number: 64C67



ELEVATION



BEAM REMOVAL DETAIL AT TRANSVERSE TIES

GENERAL NOTES

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

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to manufacturer's specifications prior to another coat of zinc. This work shall be performed by the producer and included with the cost of the beam.

Any damage done to the bridge during beam removal shall be repaird by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams.

The top surface of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of ¼".

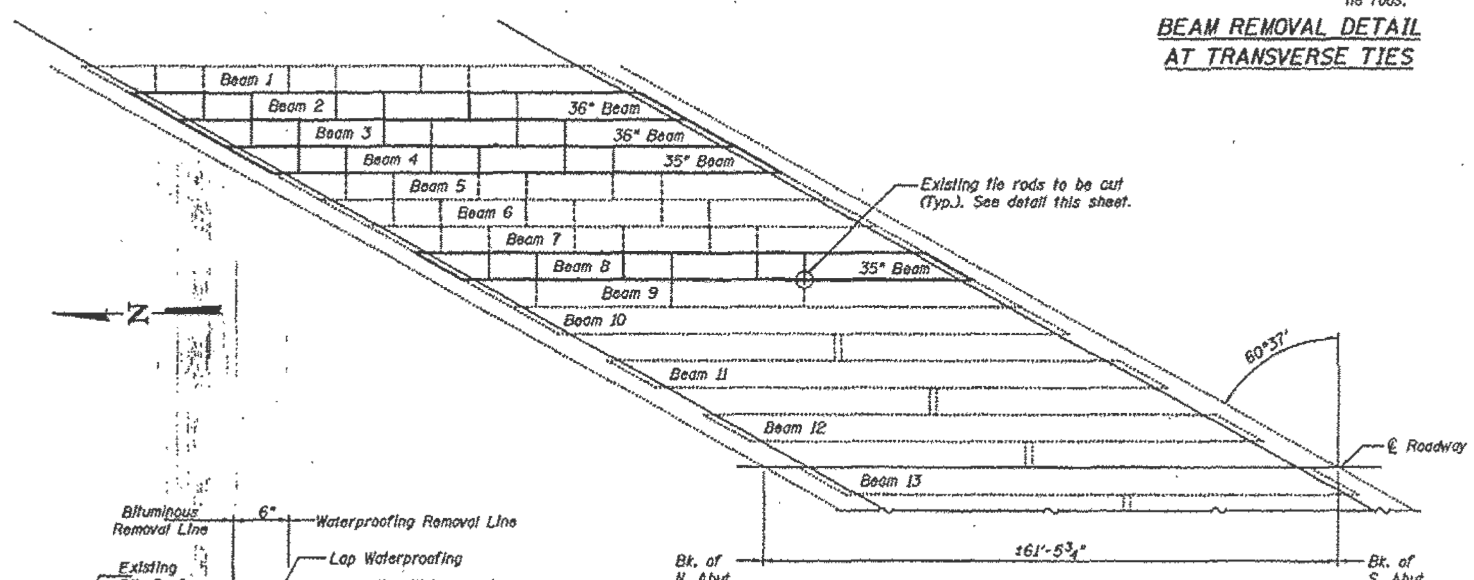
If required to be anchored, temporary concrete barrier shall only be anchored into the overlay and not the PPC Deck Beams.

All construction joints shall be bonded.

See Roadway Plans for Stage Construction Details.

The minimum thickness of the Bituminous concrete overlay shall be 1½" and varies as required to adjust for the existing profile grade and beam camber.

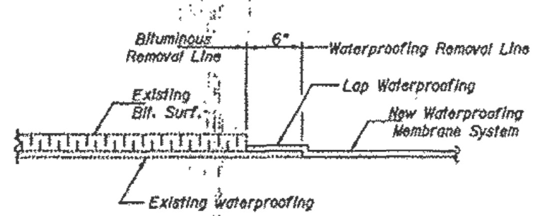
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.



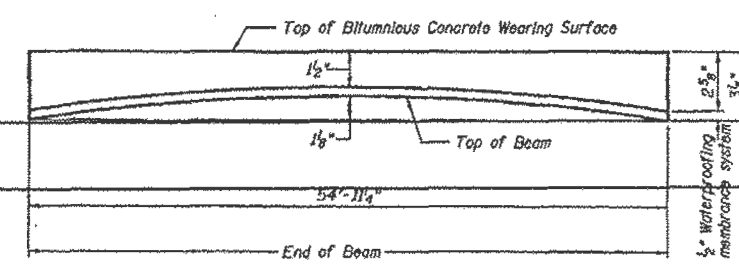
PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	659
PPC Deck Beams (27" Depth)	Sq. Ft.	650
PC Mortar Fairing Course	Foot	330
Waterproofing Membrane System	Sq. Yd.	917
Asbestos Bearing Pad Removal	Each	4
Bituminous Concrete Surface Course, Superpave Mix "D" N50	Ton	10.3
Furnishing and Erecting Structural Steel	Pound	210
Bituminous Concrete Surface Removal	Sq. Yd.	18.5
Silicone Joint Sealer, 1½"	Foot	25



WATERPROOFING TREATMENT



ANTICIPATED INITIAL CAMBER DIAGRAM

DESIGN STRESSES PRECAST UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½" ϕ low lax strands)
f'si = 201,960 psi (½" ϕ low lax strands)

DESIGNED
CHECKED
DRAWN
CHECKED F.J.B. / PSJ

August 4, 2006
EXAMINED — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

Expires: November 30, 2006

PLAN AND ELEVATION
IL 40 / HENNEPIN CANAL FEEDER
WHITESIDE COUNTY
SN 098-0015

SLT-92-001-06

FOR INFORMATION ONLY

FILE NAME = s:\pj\6300-6399\6346\025\MicroS\Shts\Structural Plans\0980015-64C17-034-EPLANS.dgn

STRAND ASSOCIATES 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED
		CHECKED - AJS	REVISED
	PLOT SCALE =	DRAWN - BJF	REVISED
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-0015
SHEET NO. 2 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	97
		CONTRACT NO. 64C17		

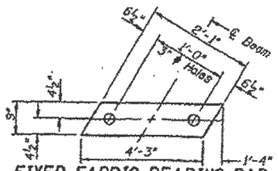
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

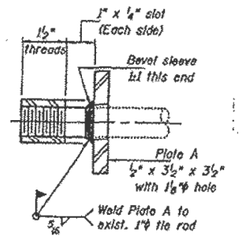
		Whiteside	-	8

SHEET NO. 2
3 SHEETS

Contract Number: 64C67

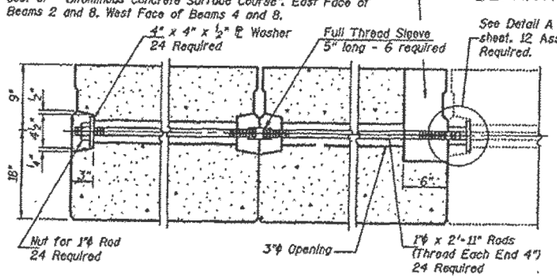


FIXED FABRIC BEARING PAD
(Expansion Pad Similar Without Holes)

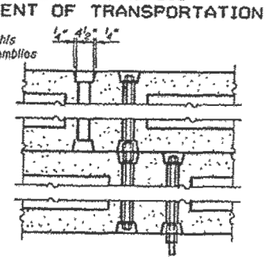


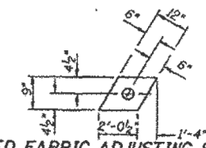
SECTION A-A

6" x 6" x 11½" Blockout to be filled with Class BD Concrete after Beams have been installed. Cost shall be included in the cost of "Bituminous Concrete Surface Course". East Face of Beams 2 and 8. West Face of Beams 4 and 8.



TYPICAL TRANSVERSE TIE ASSEMBLY





FIXED FABRIC ADJUSTING SHIM
(Expansion Pad Similar Without Hole)

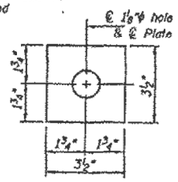
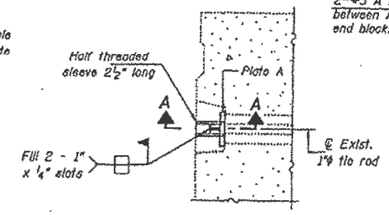
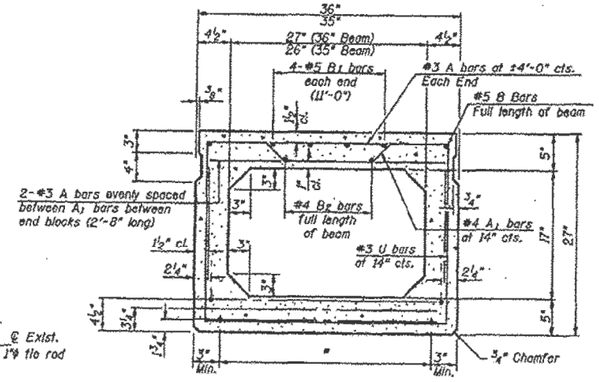


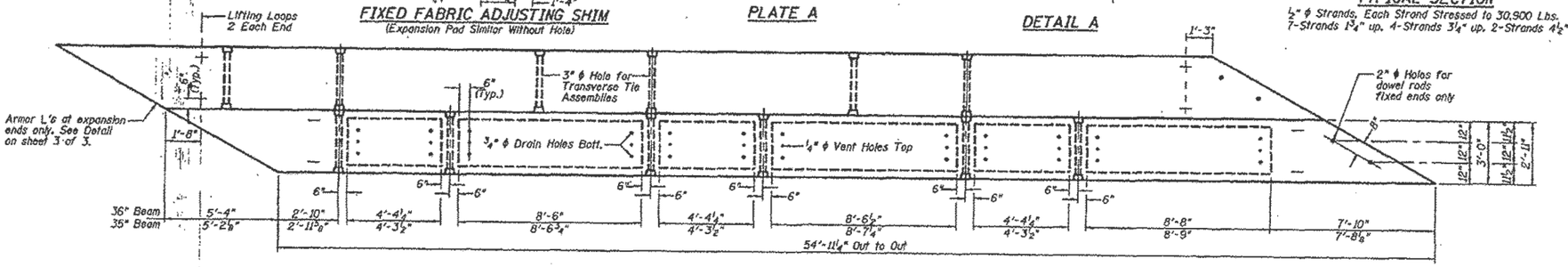
PLATE A



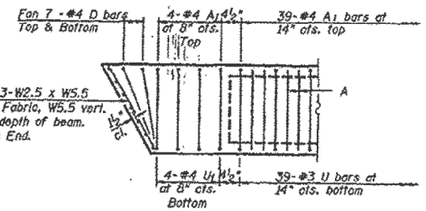
DETAIL A



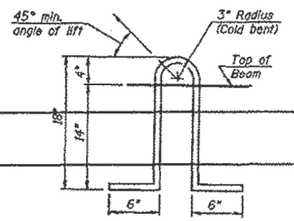
TYPICAL SECTION
½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
7-Strands 1¾" up, 4-Strands ¾" up, 2-Strands 4½" up



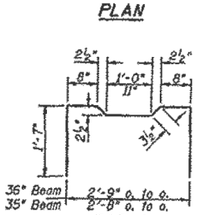
PLAN



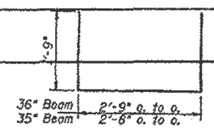
END PLAN



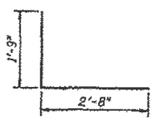
LIFTING LOOP DETAIL



BAR A1



BARS U & U1



BAR D

* TRANSVERSE PLACEMENT GUIDELINES

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be ½".
4. The minimum clearance from strand to void shall be ½".

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 2 -½" ϕ-270 ksi strands, as shown.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads sol. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
The bearing seat surfaces shall be adjusted by shimming to assure full and even bearing. Two ⅛" fabric adjusting shims of the dimensions shown shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
Required Release Strength, f'ci, shall be 4,000 p.s.i.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms.	Sq. Ft.	650

DESIGNED	S.J.B.
CHECKED	P.S.J.
DRAWN	Drew Christopher
CHECKED	S.J.B. P.S.J.

August 3, 2006

EXAMINED John A. Morris
ENGINEER OF STRUCTURAL REVIEWS

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PD-5-R 10-22-04

SLT-92-001-06

BEAM DETAILS
IL 40 / HENNEPIN CANAL FEEDER CANAL BRIDGE 45
WHITESIDE COUNTY
SN 098-0015

FOR INFORMATION ONLY

FILE NAME = s:\pal\6300-6399\6346\025\Micros\Shts\Structural Plans\098001S-64C17-034-EPLANS.dgn

STRAND ASSOCIATES®
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brienf	DESIGNED - RRD	REVISED	
	CHECKED - AJS	REVISED	
PLOT SCALE =	DRAWN - BJF	REVISED	
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

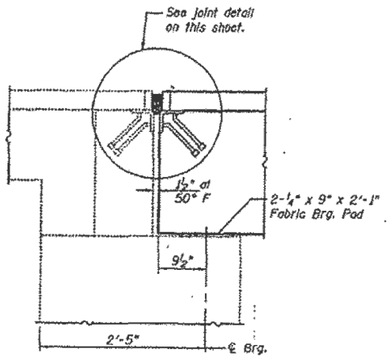
EXISTING GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-0015
SHEET NO. 3 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	98
		CONTRACT NO. 64C17		
	ILLINOIS FED. AID PROJECT			

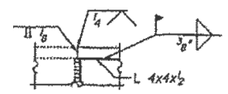
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	DIST.	TYPE	SHEET NO. 3
		Whiteside	-	9 -	3 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

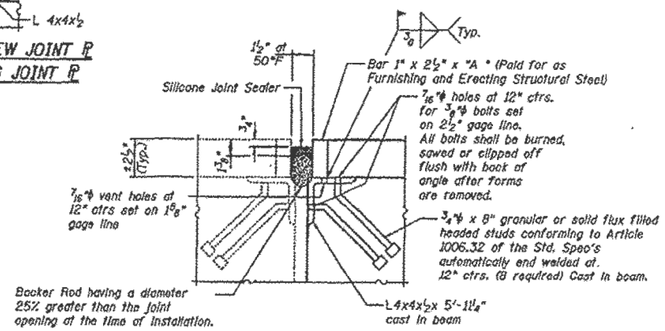
Contract Number 64C67



TYPICAL NORTH ABUTMENT SECTION
(Dimensions at Rt. L's)

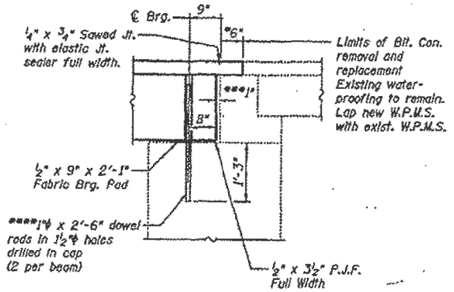


ELEVATION NEW JOINT ℙ TO EXISTING JOINT ℙ



WEST ABUTMENT JOINT DETAIL
(Cost included with PPC Deck Beams, except as noted)

Beam	Length "A"
2 - 4	18'-4"
8	6'-1¼"

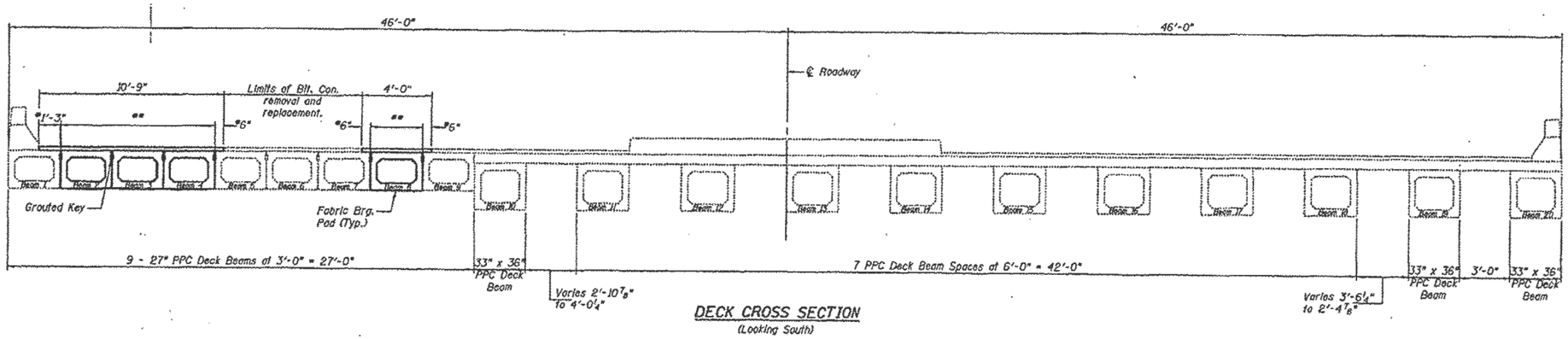


TYPICAL SOUTH ABUTMENT SECTION
(Dimensions at Rt. L's)

*Limits of existing waterproofing to remain. The bituminous concrete removal in these areas shall be paid for as Bituminous Concrete Surface Removal.
**Cost of removal in these areas is included with Removal of Existing PPC Deck Beams.

****Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

***Existing joint filler to be removed. Cost included with removal of PPC deck beams. 1" Joint shall be filled with non-shrink grout. Dimension may vary to accommodate tolerance in beam lengths.



DECK CROSS SECTION
(Looking South)

DESIGNED	S.J.B.
CHECKED	P.S.J.
DRAWN	Drew Christopher
CHECKED	S.J.B. P.S.J.

August 3, 2006
EXAMINED John A. Morris, ENGINEER OF STRUCTURAL REVIEWS
PASSED Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES

JOINT AND DECK DETAILS
IL 40 / HENNEPIN CANAL
FEEDER CANAL BRIDGE 45
WHITESIDE COUNTY
SN 098-0015

FOR INFORMATION ONLY

SLT-92-001-06

FILE NAME = e:\plt\6300-6399\6346\025\Micros\Shts\Structural Plans\P098015-64C17-R34-EPLANS.dgn

STRAND ASSOCIATES®
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED	
	CHECKED - AJS	REVISED	
PLOT SCALE =	DRAWN - BJF	REVISED	
PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-0015
SHEET NO. 4 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	101 BR-3	WHITESIDE	130	99
		CONTRACT NO. 64C17		
	ILLINOIS	FED. AID PROJECT		

117-B

SBI ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 88 / FA 40	101B-1	WHITESIDE	31	1
F.A.P. RTE. NO. 4		ILLINOIS PROJECT	F-126(5)	

P-92-013-63

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SCALES:
- PLAN 1 INCH = 50 FT.
- PROFILE, HOR. 1 INCH = 50 FT.
- PROFILE, VERT. 1 INCH = 5 FT.
- CROSS-SECTIONS 1 INCH = 5 FT.

SBI ROUTE 88 SECTION 101B-1
(FA ROUTE 40) PROJECT F-126(5)
WHITESIDE COUNTY

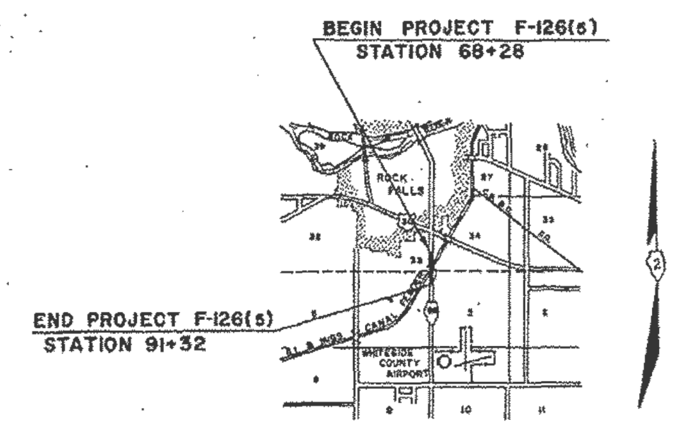
INDEX OF SHEETS

1. COVER SHEET
   INDEX OF SHEETS
   SUMMARY OF QUANTITIES
2. TYPICAL SECTIONS
   GENERAL NOTES
3. TYPICAL MAILBOX TURNOUTS AND PRIVATE ENTRANCE APPROACHES
   SCHEDULE FOR PIPE CULVERTS, CLASS X CONCRETE AND REINFORCEMENT BARS

4-5. PLAN AND PROFILE
6. PROFILE OF DETOUR ROAD
7-16. STRUCTURE PLANS
17-26. CROSS-SECTIONS STA. 64+00 TO 96+00
27. STANDARD 1996 "REINFORCED CONCRETE HEADWALLS"
    STANDARD 1972-3 "ROAD UNDER CONSTRUCTION SIGN"
    STANDARD 2114 "FLAGMAN TRAFFIC CONTROL SIGN"
    STANDARD 2150-2 "SIGN FOR PRIMARY SYSTEM PROJECT"
28 STANDARD 1909-4
29 STANDARDS 2113-1, 2115-1, 2179
30 STANDARDS 1746-3, 1744-1, 1972-1
31 STANDARD 2169

SUMMARY OF QUANTITIES

010001	TREE REMOVAL (6 TO 15 INCH DIAMETER)	IN. DIA.	295
010002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN. DIA.	703
010005	TREE REMOVAL, ACRES	ACRE	1.0
011001	EARTH EXCAVATION	CU. YDS.	29,646
013001	BORROW EXCAVATION	CU. YDS.	16,214
024001	SUB-BASE --- GRANULAR MATERIAL, TYPE A	TON	2897
029005	GRAVEL OR CRUSHED STONE BASE COURSE TYPE B	TON	3538
046001	BITUMINOUS MATERIALS, (PRIME COAT)	GALLON	2500
046007	BITUMINOUS CONCRETE SURFACE COURSE SUB-CLASS I-11	TON	726
048008	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ. YDS.	5648.7
048011	PORTLAND CEMENT CONCRETE PAVEMENT 10½ - 10½	SQ. YDS.	352.1
048019	PAVEMENT FABRIC	SQ. YDS.	6046.
045002	REMOVAL OF EXISTING STRUCTURES	L. SUM	1
050002	CLASS B EXCAVATION FOR STRUCTURES	CU. YDS.	930
052001	HANDRAIL CONCRETE	CU. YDS.	3.1
052003	CLASS X CONRETE	CU. YDS.	765.3
052016	CLASS X CONREIE (HEADWALL)	CU. YDS.	43.2
052021	PROTECTIVE COAT.	SQ. YDS.	5912.
054001	FURNISHING AND ERECTING STRUCTRUAL STEEL	POUND	2500
056036	PIPE CULVERTS, TYPE 2A, 48"	LIN. FT.	158
058059	PIPE CULVERTS, TYPE 3A, 48"	LIN. FT.	196
058251	PIPE CULVERT, TYPE 2 48"	LIN. FT.	206
058199	PIPE CULVERT, TYPE 1 15"	LIN. FT.	194
058555	REMOVE AND RELAY PIPE CULVERTS 15"	LIN. FT.	28
058758	REMOVE AND RELAY PIPE CULVERTS 48"	LIN. FT.	30
059001	REINFORCEMENT BARS	POUND	105,250
060001	FURNISHING UNTREATED PILES UP TO 30 FEET	LIN. FT.	3904
060004	FURNISHING CREOSOTED PILES UP TO 20 FEET	LIN. FT.	406
060007	TEST PILE TIMBER	EACH	2
081001	NAME PLATES	EACH	1
082001	PAVEMENT REMOVAL	SQ. YDS.	3766
099002	WOOD GUARD RAIL REMOVAL	LIN. FT.	812
100001	PIPE HANDRAIL	LIN. FT.	360
101007	STOCK-PILING SALVAGE AGGREGATE	CU. YDS.	7181
101009	SALVAGED AGGREGATE	CU. YDS.	273
103001	TEMPORARY BRIDGE COMPLETE	EACH	1
104001	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	6
104002	RE-ERECTING RIGHT OF WAY MARKERS	EACH	8
110001	TEMPORARY SEEDING	ACRE	4.5
110004	COMPLETE SEEDING	ACRE	4.6
110006	FERTILIZER NUTRIENTS	TON	0.7
111003	STRAW FOR ASPHALT-COATED MULCH	TON	23
111005	EMULSIFIED ASPHALT	GALLON	1955
201028	WOVEN WIRE FENCE	LIN. FT.	670
051036	PRECAST PRESTRESSED CONCRETE BRIDGE BEAMS	LIN. FT.	454
201320	CONSTRUCTION IDENTIFICATION SIGNS	EACH	2
067010	TIMBER BUFFERS COMPLETE	L. SUM	1



PROJECT TOTAL LENGTH = 2304 FT. = 0.436 MI.

ROAD CLASSIFICATION
3300-T-70

CONTRACT NO. 88549

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

SUBMITTED Feb. 5 64
APPROVED March 18 64
APPROVED March 18 64
APPROVED March 18 64
APPROVED March 18 64

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

FOR INFORMATION ONLY

FILE NAME = s:\pl\6300-6399\6345\025\Micros\Sht\Structural Plans\098015-64C17-034-EPLANS.dgn

STRAND ASSOCIATES 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING GENERAL PLAN AND ELEVATION STRUCTURE NO. 098-0015	F.A.P. RTE. 646	SECTION 101 BR-3	COUNTY WHITESIDE	TOTAL SHEETS 130 / SHEET NO. 100
		CHECKED - AJS	REVISED					CONTRACT NO. 64C17	
	PLOT SCALE =	DRAWN - BJF	REVISED				ILLINOIS FED. AID PROJECT		
	PLOT DATE = 8/14/2014	CHECKED - RRD	REVISED		SHEET NO. 5 OF 13 SHEETS				