

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 131	07-06121-00-BR	JEFFERSON	30	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99350	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM
GRADE CROSSING PROTECTION FUND**

INDEX OF SHEETS

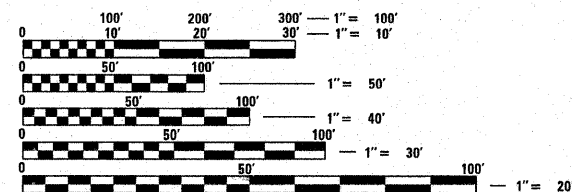
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL SECTIONS AND MISC. DETAILS
5.-7.	PLAN AND PROFILE
8.	EROSION CONTROL PLAN
9.-18.	STATION CROSS SECTIONS
19.-29.	BRIDGE PLANS
30.	BORINGS

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 24-2	MAILBOX TURNOUT FOR LOCAL ROADS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5 AND 5A

UTILITIES

ELECTRIC:	PIPELINE:
TRI-COUNTY ELECTRIC COOPERATIVE P.O. BOX 309 MT. VERNON, IL 62864 ATTN: SUE ECHOLS 618-224-5151	COUNTRYMARK COOPERATIVE, LLP 1200 REFINERY ROAD MT. VERNON, INDIANA 47620 ATTN: MICKEY SMITH 812-838-8881
WATER: WESTERN WAYNE WATER DISTRICT R R 2 WAYNE CITY, IL 62895 ATTN: ROGER JOHNSON 618-895-2802	TELEPHONE: AT&T/DISTRIBUTION 529 S. SEVENTH ST. SPRINGFIELD, IL 62703



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.

PROJECT BROS-081(52)
SECTION 07-06121-00-BR
FARRINGTON ROAD DISTRICT
JEFFERSON COUNTY
MALECKI ROAD / T.R. 131
OVER C.N. / I.C. RAILROAD AT M.P. 34.30
PROPOSED STRUCTURE NO. 041-3738
JOB NO. C-99-588-06



LOCATION OF SECTION INDICATED THUS: —■—

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (0-250 ADT)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 90 ADT (2008)

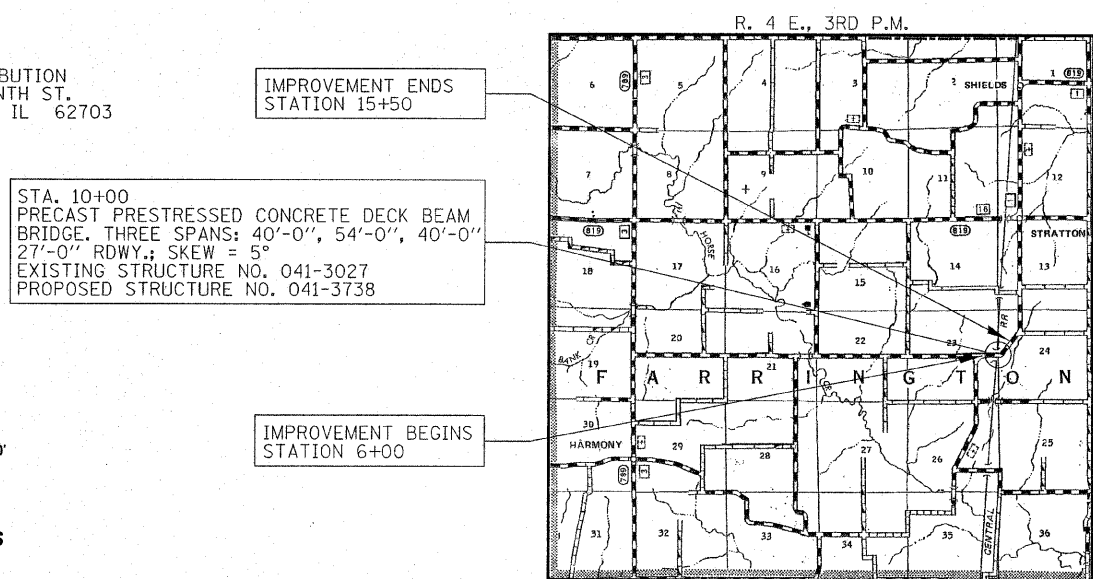
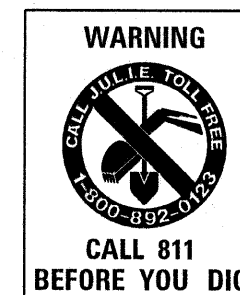
JEFFERSON COUNTY HIGHWAY DEPT.

APPROVED 12-22 2008
Virginia Walker
ROAD DISTRICT COMMISSIONER

APPROVED 12-22 2008
Steve Schaefer
COUNTY ENGINEER

PASSED 1-16 2009
Keith Wiley

Releasing For
Limited Review 1-16 2009
Blayne C. Harris
DISTRICT NINE ENGINEER OF
LOCAL ROADS & STREETS
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LOCATION MAP

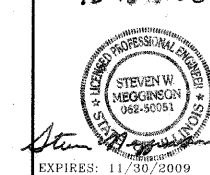
APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 950 FEET = 0.180 MILES

CONTRACT NO. 99350

JEFFERSON COUNTY

SECTION 07-06121-00-BR

DATE: 12-18-2008



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

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

HLR
ELGIN • SPRINGFIELD

EXPIRES: 11/30/2009

PROJECT NUMBER: 08.0128.130 DATE: 12/16/08

SUMMARY OF QUANTITIES			
CODE No.	ITEM	CONST. CODE X080-20	
		UNIT	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	150
20200100	EARTH EXCAVATION	CU YD	630
20400800	FURNISHED EXCAVATION	CU YD	2370
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1740
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.1
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	220
28000300	TEMPORARY DITCH CHECKS	EACH	4
28000400	PERIMETER EROSION BARRIER	FOOT	2000
28101700	RIPRAP, SPECIAL	TON	380
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	900
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	75
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	75
50300225	CONCRETE STRUCTURES	CU YD	152.3
50300280	CONCRETE ENCASEMENT	CU YD	4.4
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3618
50800105	REINFORCEMENT BARS	POUND	11720
50900205	STEEL RAILING, TYPE S1	FOOT	276
51201600	FURNISHING STEEL PILES HP12X53	FOOT	652
51202305	DRIVING PILES	FOOT	280
51500100	NAME PLATES	EACH	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	50
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
78200405	GUARDRAIL MARKERS	EACH	6
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Z0065000	SETTING PILES IN ROCK	EACH	12


^ - SEE SPECIAL PROVISIONS

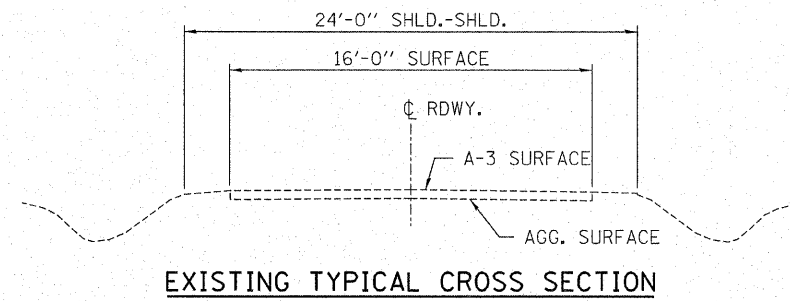
• - SECURITY STOPS

GENERAL NOTES

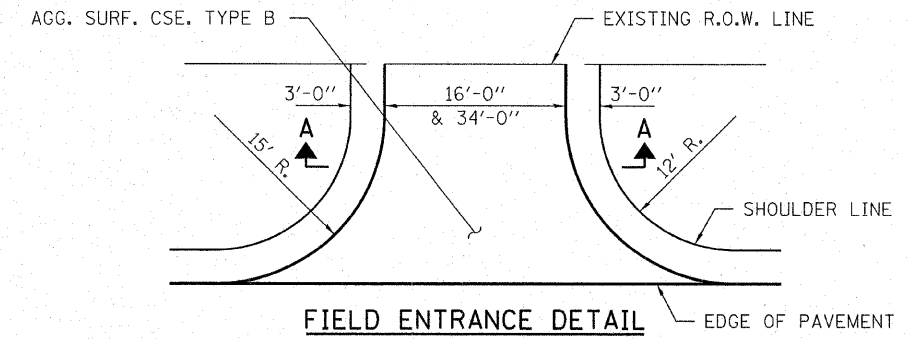
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING BITUMINOUS SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

AGGREGATE SURFACE COURSE, TYPE B	2.05 TON/CU YD
RIPRAP, SPECIAL	1.75 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

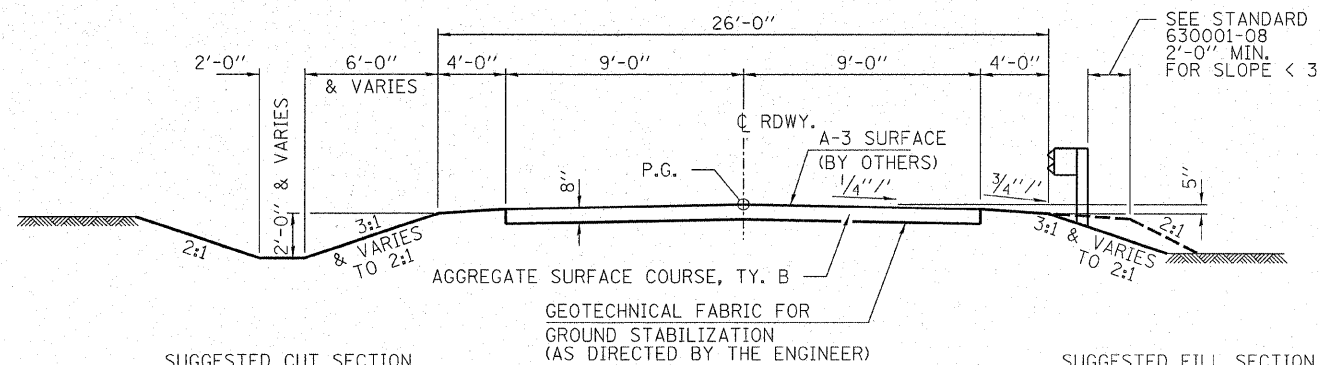
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PLOT SCALE =	DRAWN - T.W.K.	REVISED -	131				07-06121-00-BR	JEFFERSON	30	2	
PLOT DATE = 1/8/2009	CHECKED - S.W.M.	REVISED -	FARRINGTON ROAD DISTRICT				CONTRACT NO. 99350				
	DATE - 12/16/08	REVISED -	FED. ROAD DIST. NO. ILLINOIS				FED. AID PROJECT				
			SCALE:	SHEET NO. OF SHEETS		STA. TO STA.					



EXISTING TYPICAL CROSS SECTION



FIELD ENTRANCE DETAIL



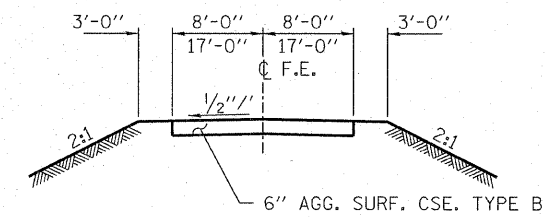
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CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION

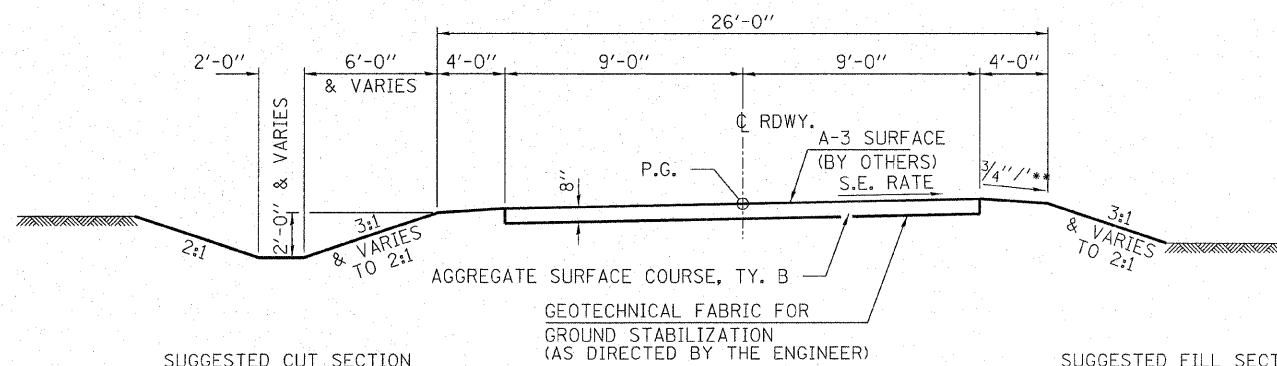
SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

STA. 6+00 TO STA. 9+32.25
STA. 14+69.41 TO STA. 15+50

TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING
ROADWAY IS TO BE CONSTRUCTED FROM STA. 6+00 TO 6+50 AND
STA. 15+00 TO 15+50. SEE SHEET 19 FOR TRANSITION AT BRIDGE.



SECTION A-A



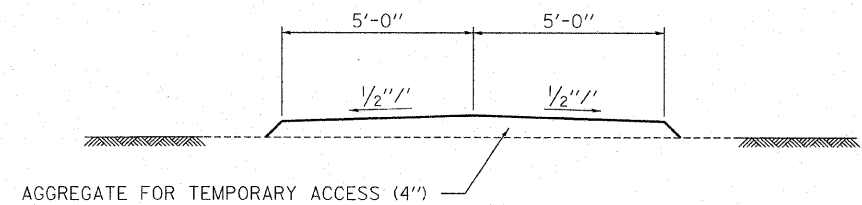
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CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

STA. 10+67.75 TO STA. 14+69.41

** ALGEBRAIC DIFFERENCE BETWEEN S.E. & SHOULDER
SHALL NOT EXCEED 10.0%

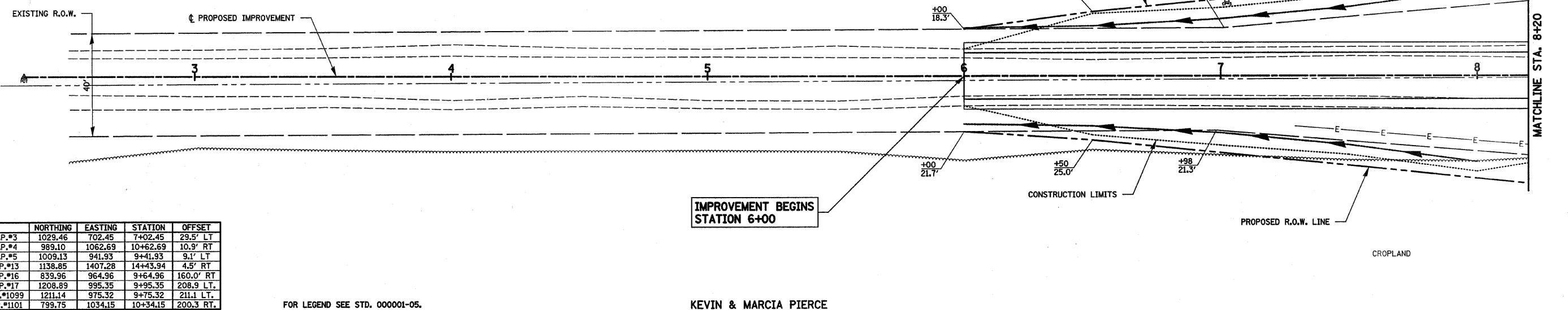
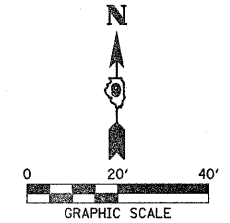
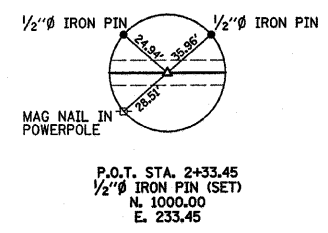


TEMPORARY ACCESS CROSS SECTION

STA. 11+70 TO STA. 15+00

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	DATE - 12/16/08	REVISED -	FED. ROAD DIST. NO. ILLINOIS				FED. AID PROJECT				
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			

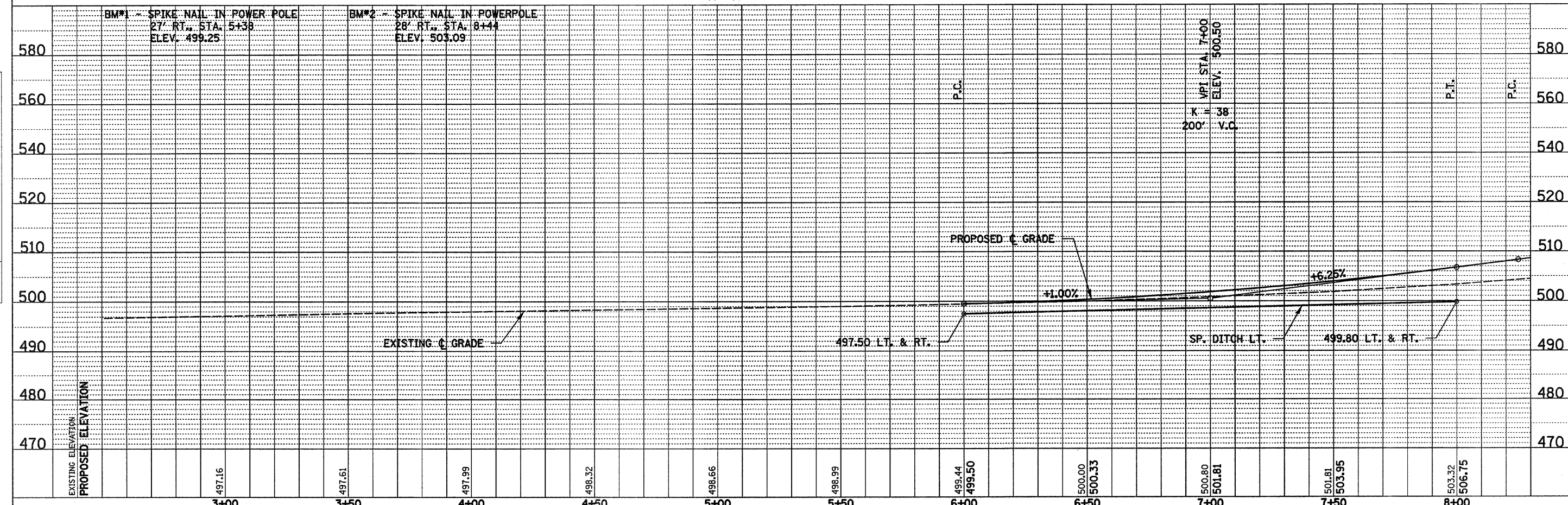
LELAND & PHYLLIS GANIEANY
SE 1/4, NE 1/4, SEC 23, T. 1 S., R. 4 E., 3RD P.M.



	NORTHING	EASTING	STATION	OFFSET
C.P.#3	1029.46	702.45	7+02.45	29.5' LT
C.P.#4	989.10	1062.69	10+62.69	10.9' RT
C.P.#5	1009.13	941.93	9+41.93	9.1' LT
C.P.#13	1138.85	1407.28	14+43.94	4.5' RT
C.P.#16	839.96	964.96	9+64.96	160.0' RT
C.P.#17	1208.89	995.35	9+95.35	208.9 LT.
C.P.#1099	1211.14	975.32	9+75.32	211.1 LT.
C.P.#1101	799.75	1034.15	10+34.15	200.3 RT.

FOR LEGEND SEE STD. 000001-05.

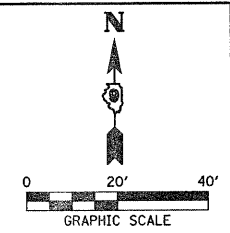
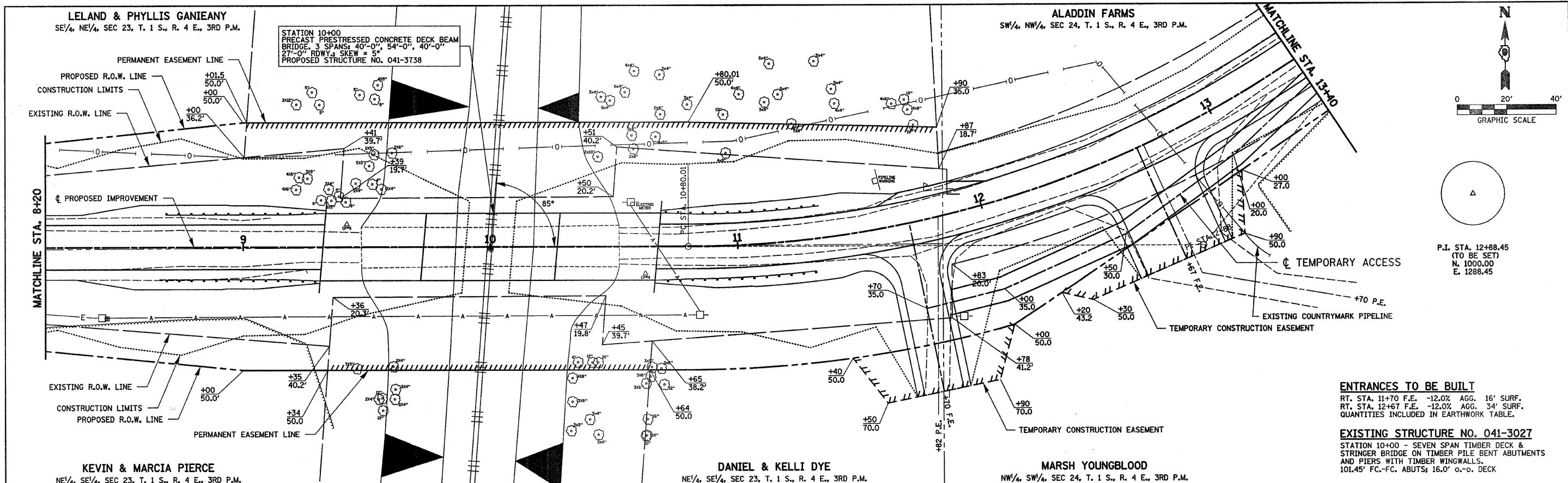
KEVIN & MARCIA PIERCE
NE 1/4, SE 1/4, SEC 23, T. 1 S., R. 4 E., 3RD P.M.



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	PLOT SCALE =	DRAWN - D.T.M.	REVISED -		
	PLOT DATE = 2/4/2009	CHECKED - S.W.M.	REVISED -		
		DATE - 06/26/08	REVISED -		

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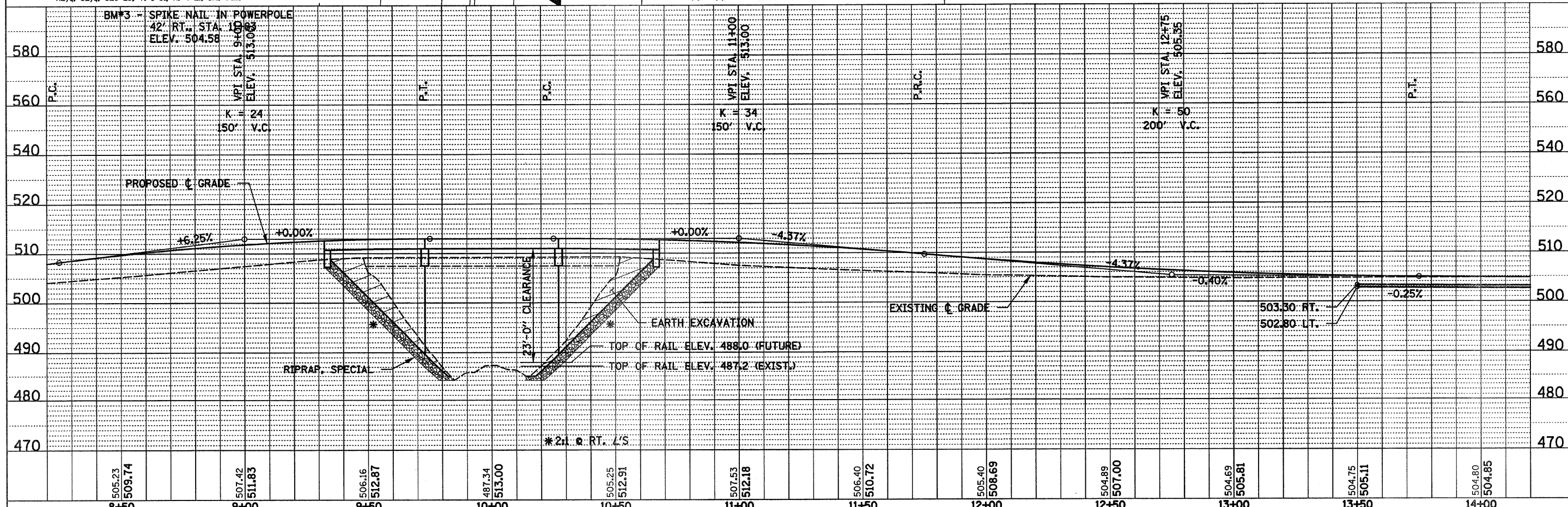
P.I. STA. 12+88.45
(TO BE SET)
N. 1000.00
E. 1288.45

ENTRANCES TO BE BUILT
RT. STA. 11+70 F.E. -12.0% AGG. 16' SURF.
RT. STA. 12+67 F.E. -12.0% AGG. 34' SURF.
QUANTITIES INCLUDED IN EARTHWORK TABLE.

EXISTING STRUCTURE NO. 041-3027
STATION 10+00 - SEVEN SPAN TIMBER DECK &
STRINGER BRIDGE ON TIMBER PILE BENT ABUTMENTS
AND PIERS WITH TIMBER WINGWALLS.
101.45' FC-F.C. ABUTS; 16.0' o.-o. DECK

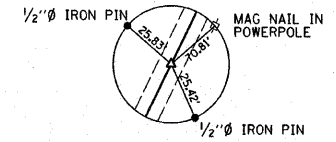
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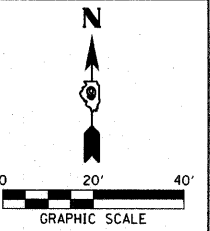


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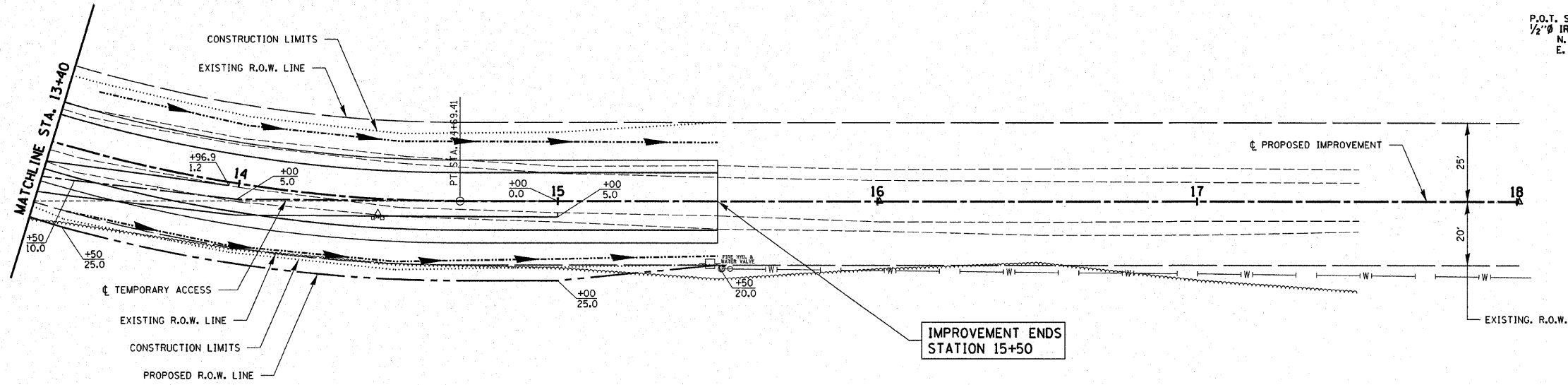
ALADDIN FARMS
SW/4, NW/4, SEC 24, T. 1 S., R. 4 E., 3RD P.M.



P.O.T. STA. 18+00.78
1/2" Ø IRON PIN (SET)
N. 1417.26
E. 1630.92

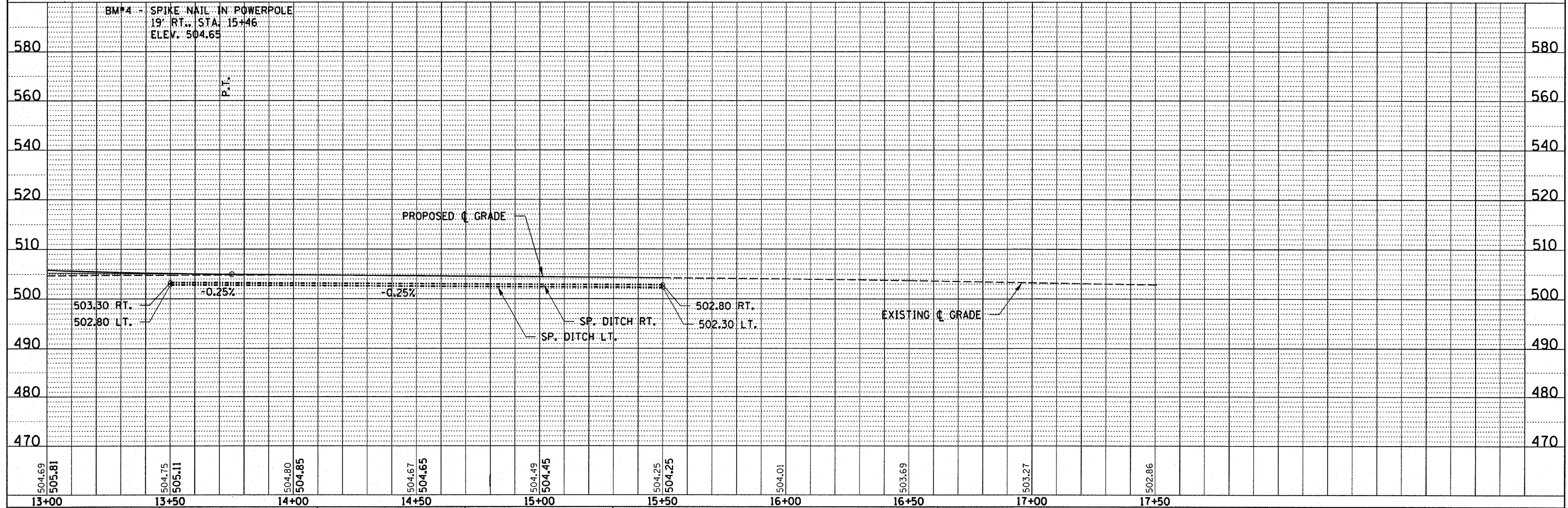


PLAN	SURVEYED	DATE
	PLOTTED	BY
	REVIEWED	
	NOTED	
	NO. OF MAY CHECKED	
	NO.	
	FILE NAME	



MARSH YOUNGBLOOD
NW/4, SW/4, SEC 24, T. 1 S., R. 4 E., 3RD P.M.

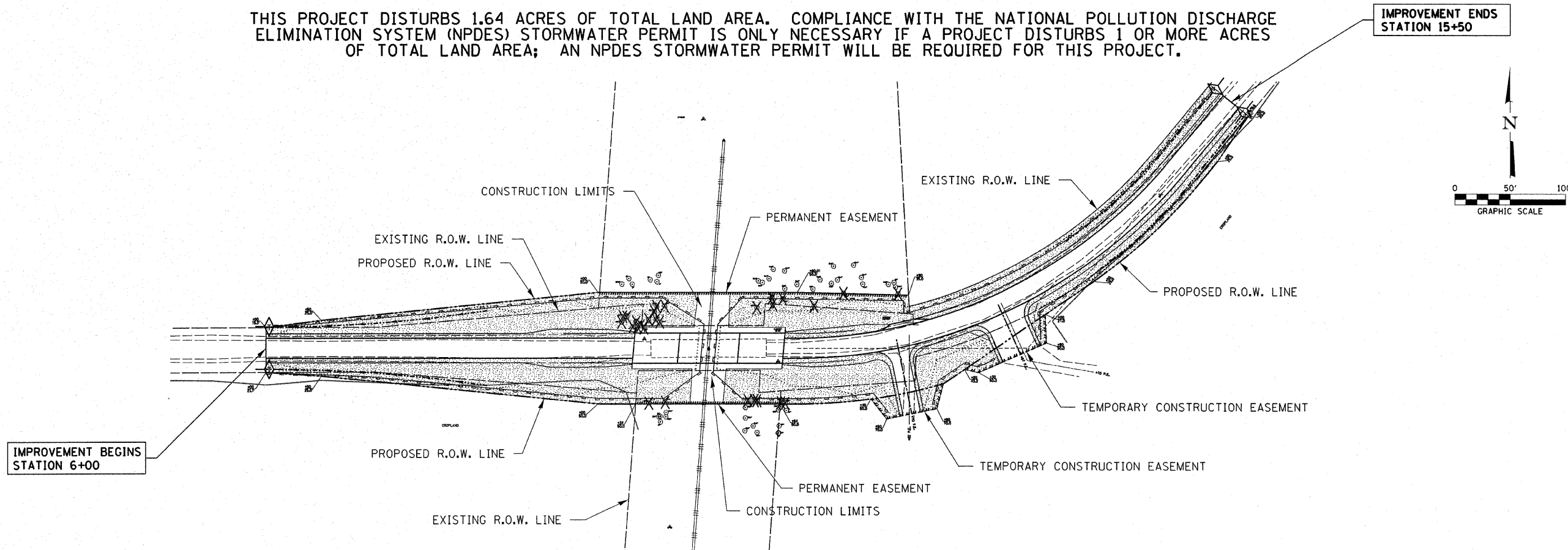
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		DRAWN - D.T.M.	REVISED -		
		CHECKED - S.W.M.	REVISED -		
		DATE - 06/26/08	REVISED -		

EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 1.64 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.



GENERAL NOTES FOR SOIL EROSION CONTROL

1. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ALSO TAKE SPECIAL NOTE TO THE CONTRACT SPECIAL PROVISION "EROSION CONTROL PLAN". ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. ALL MEASURES SHALL BE IN PLACE WITHIN 4 DAYS OF DISTURBANCE.
3. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION AND REPAIR. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SEEDING IS ACHIEVED.
4. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT 5 FEET OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION. STAKES SHALL BE PLACED AT A MINIMUM OF 5 FOOT INTERVALS. SEE STD. 280001.
5. THE PERIMETER EROSION BARRIER SHALL BE REMOVED WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AFTER THE PERIMETER EROSION BARRIER IS REMOVED, ALL AREAS DAMAGED BY THE FENCE INSTALLATION SHALL BE RESTORED BY THE CONTRACTOR.
6. THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN COST OF THE PAY ITEM PERIMETER EROSION BARRIER.
7. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED AS PER CONTRACT SPECIAL PROVISIONS ON 100 FEET CENTERS AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED IMMEDIATELY AS GRADING PROGRESSES THROUGH THE PROJECT. THE PAY ITEM FOR TEMPORARY DITCH CHECK SHALL INCLUDE THE COST OF INSTALLATION, MAINTENANCE AND REMOVAL. ONLY AGGREGATE DITCH CHECKS SHALL BE USED. SEE STD. 28001.
8. REMOVAL OF TRAPPED SEDIMENT SHALL BE PAID FOR AS EARTH EXCAVATION. SEDIMENT SHALL BE REMOVED WHEN SILTATION REACHES 50% CAPACITY OF STRUCTURE. SEE APPLICABLE STANDARDS, SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
9. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
10. THE CONTRACTOR SHALL CONTACT THE COUNTY HIGHWAY DEPARTMENT AS SOON AS INITIAL EROSION CONTROL PRACTICES ARE INSTALLED.
11. TEMPORARY SEEDING SHALL BE COMPLETED ACCORDING TO THE ITEM TEMPORARY EROSION CONTROL SEEDING ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 15 WORKING DAYS.
12. THE COST OF ALL REQUIRED TEMPORARY SEEDING SHALL BE PAID FOR AS PER THE ITEM TEMPORARY EROSION CONTROL SEEDING.
13. ALL DISTURBED AREAS SHALL BE SEEDDED AS DIRECTED BY THE ENGINEER. FINAL SEEDING SHALL CONFORM TO SEEDING CLASS 2 (SPECIAL) AS PER IDOT STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
14. THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (i.e. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS.

- LEGEND**
- PERIMETER EROSION BARRIER
 - ◇ TEMPORARY DITCH CHECKS
 - ▨ SEEDING, CLASS 2 SPECIAL

SEEDING, CLASS 2 SPECIAL

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. EST. QUANTITY = 1.1 ACRES

TEMPORARY EROSION CONTROL SEEDING

2 APPLICATIONS 100LB/ACRE EST. QUANTITY = 220 POUNDS

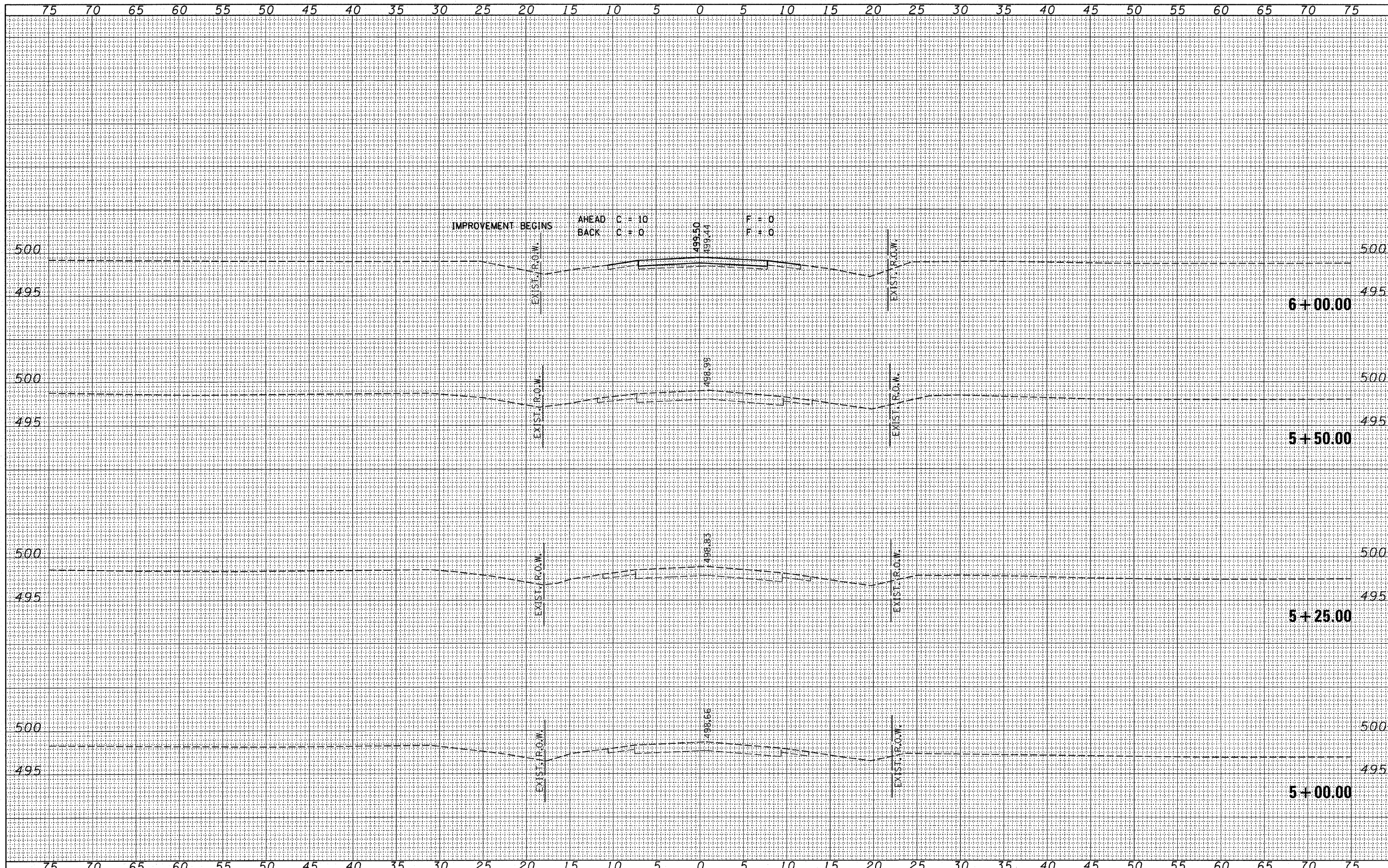
PERIMETER EROSION BARRIER

LT. STA. 6+00 TO 9+60 = 424 FT
 RT. STA. 6+00 TO 9+60 = 424 FT
 LT. STA. 10+30 TO 15+50 = 575 FT
 RT. STA. 10+30 TO 15+50 = 575 FT
 TOTAL = 2000 FT

FILE NAME = 090126-ht-erosion.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	HLR HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS	EROSION CONTROL PLAN	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.A.B.	REVISED -				131	07-06121-00-BR	JEFFERSON	30	8
		CHECKED - S.W.M.	REVISED -				FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
		DATE - 10/16/08	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

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

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



FILE NAME = 060126-sh1-exs.dgn

USER NAME =	DESIGNED - J.W.F.	REVISED -
	DRAWN - D.T.M.	REVISED -
PLOT SCALE =	CHECKED - S.W.M.	REVISED -
PLOT DATE = 12/18/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

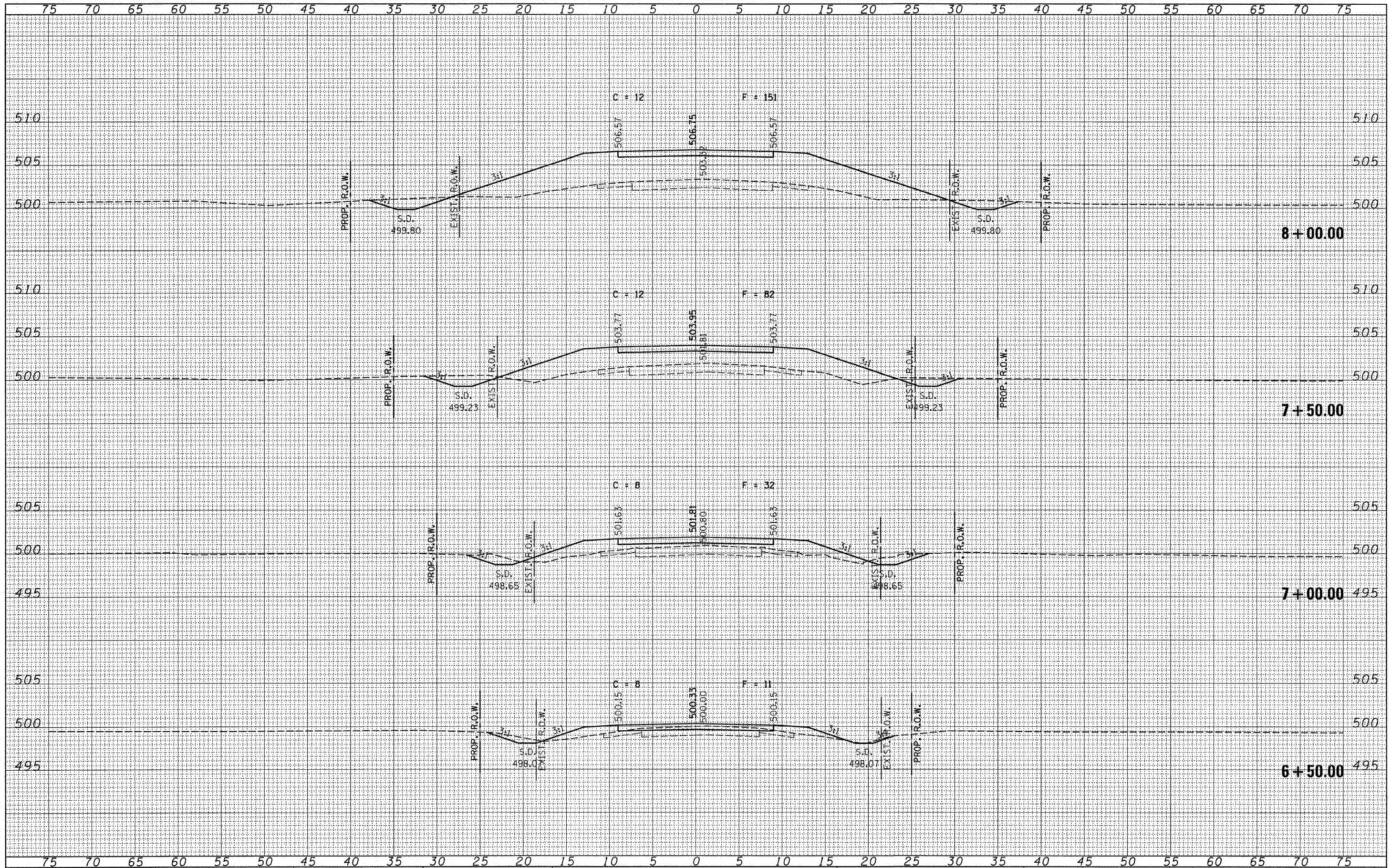
HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
SCALE: 5 SHEET NO. OF SHEETS

**CROSS SECTIONS
MALECKI ROAD**
STA. 5+00.00 TO STA. 6+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	9
FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



FILE NAME = 080126-shr-axs.dgn

USER NAME =

DESIGNED - J.W.F.
DRAWN - D.T.M.
CHECKED - S.W.M.
DATE - 10/15/08

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT



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

SCALE: 5

SHEET NO. OF SHEETS

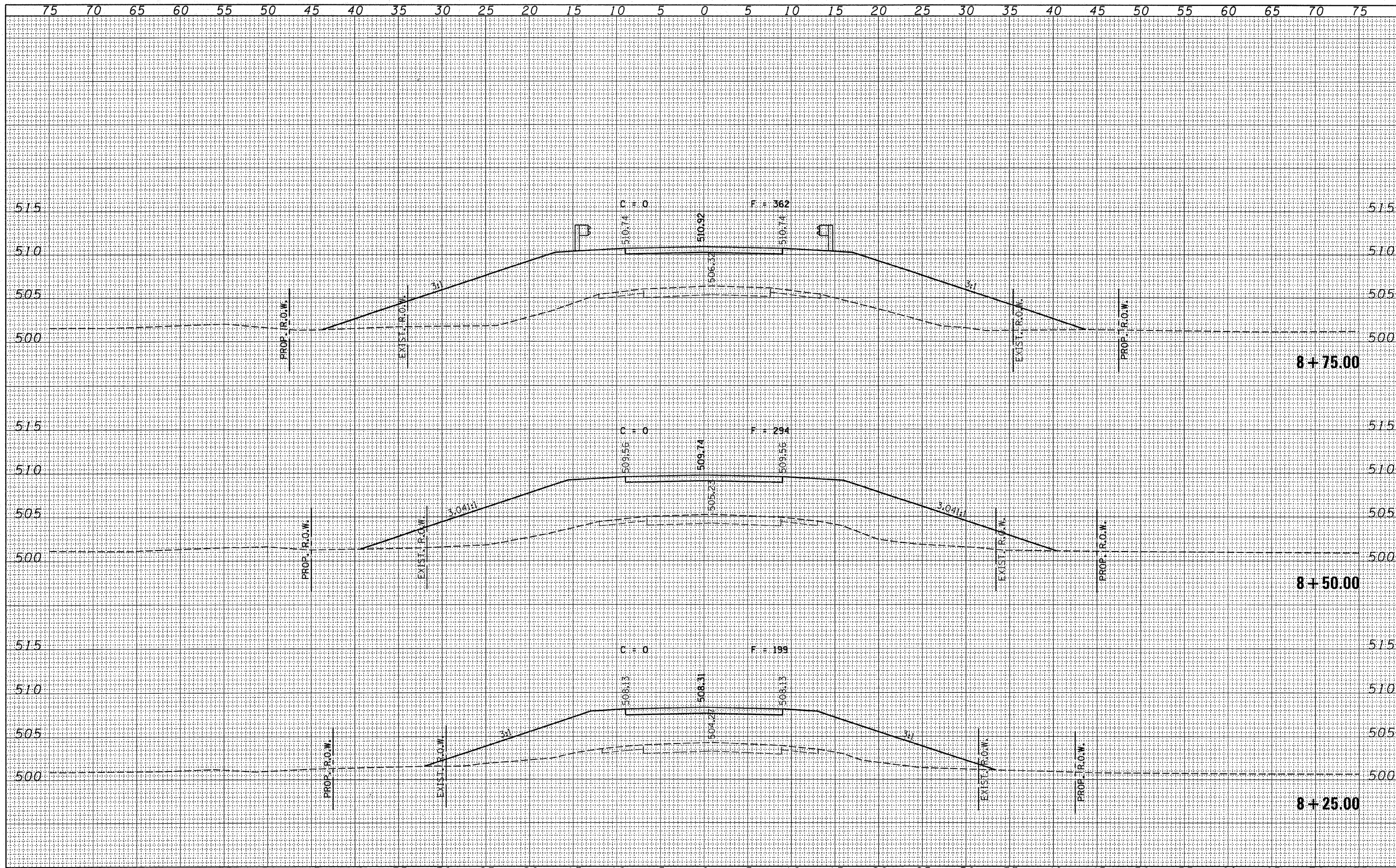
CROSS SECTIONS
MALECKI ROAD

STA. 6+50.00 TO STA. 8+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	10
FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 080126-sht-sss.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 12/18/2008

DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

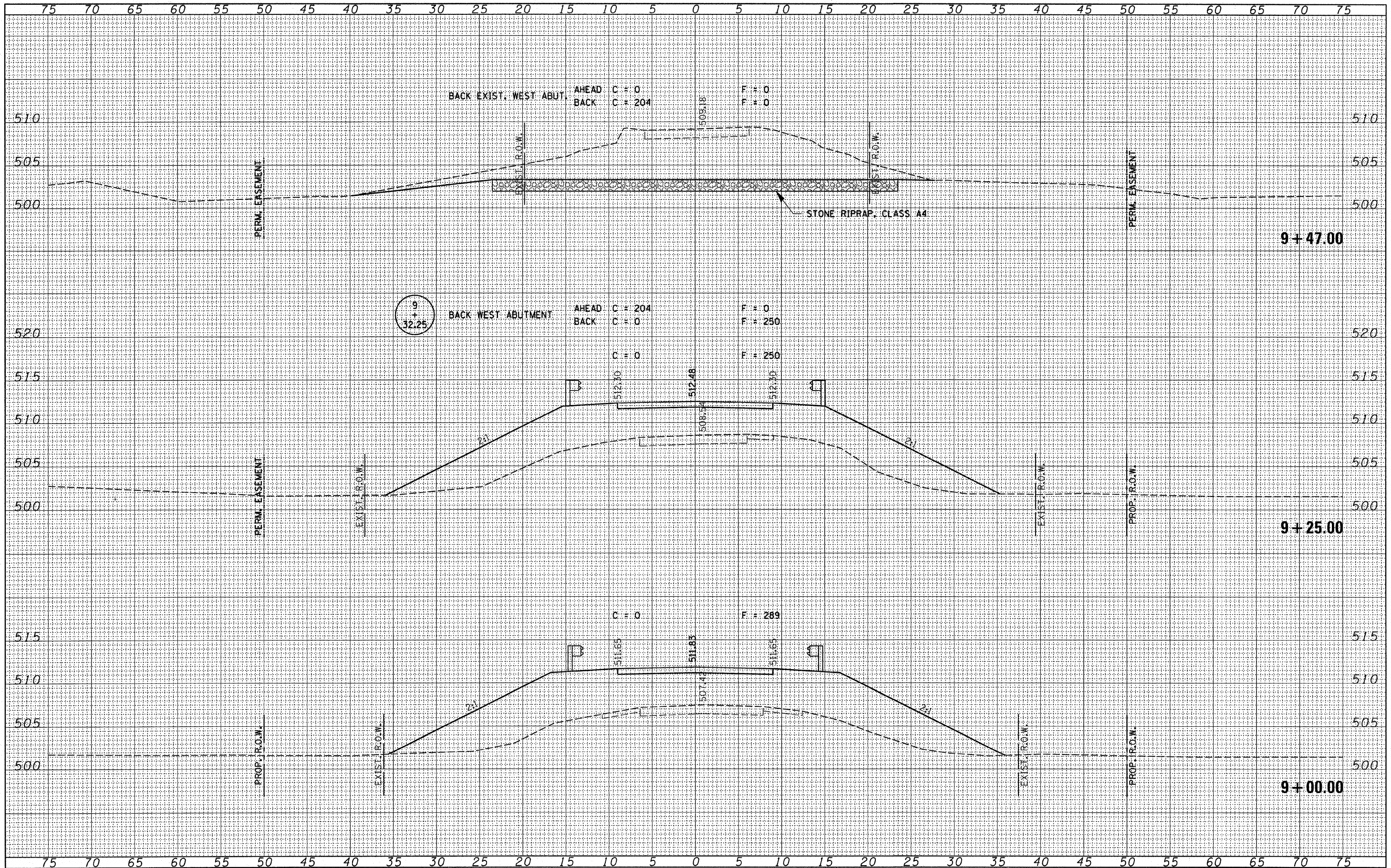
HLR HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 SCALE: 5

**CROSS SECTIONS
 MALECKI ROAD**
 STA. 8+25.00 TO STA. 8+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	11
FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME =
 PLOT SCALE =
 PLOT DATE = 12/18/2008

DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 10/15/08

REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

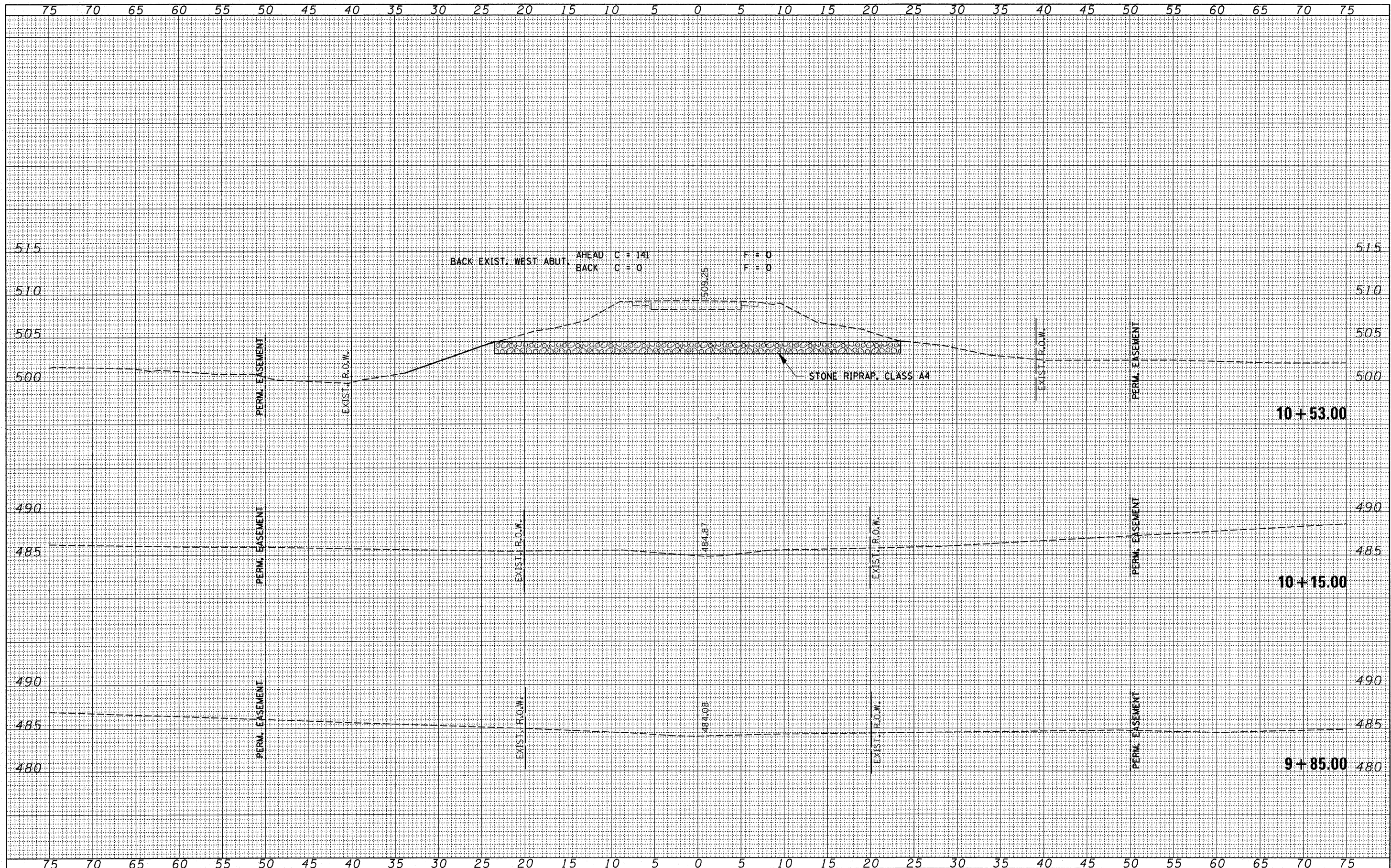
HLR HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 SCALE: 5 SHEET NO. OF SHEETS

CROSS SECTIONS
 MALECKI ROAD
 STA. 9+00.00 TO STA. 9+47.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	12
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
SURVEYED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 080126-sh1-axs.dgn

USER NAME =
 DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 10/15/08

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

ILR HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 SCALE: 5

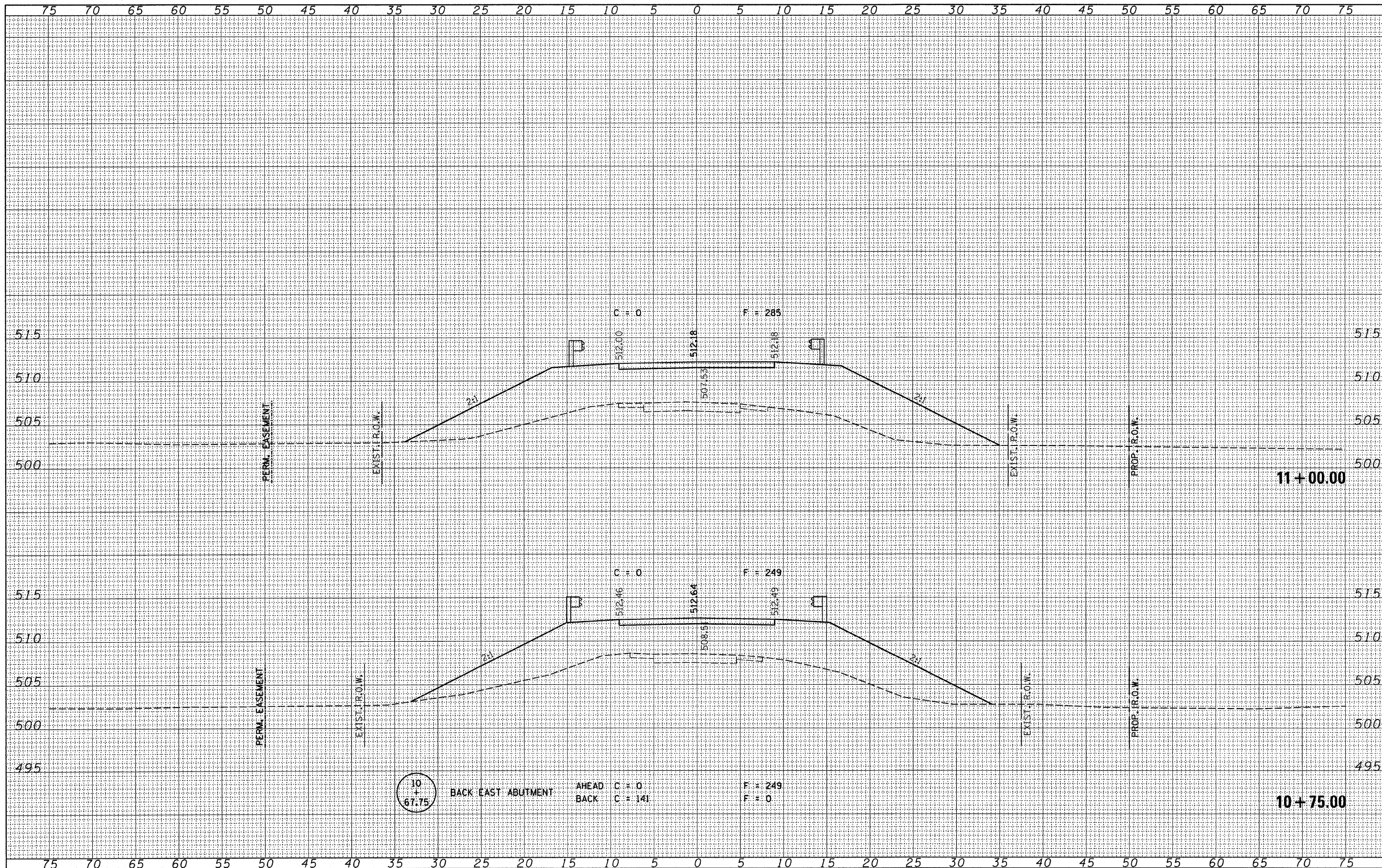
**CROSS SECTIONS
 MALECKI ROAD**

SHEET NO. OF SHEETS STA. 9+85.00 TO STA. 10+53.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	13
FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	



FILE NAME =
060126-sh1-exs.dgn

USER NAME =
PLOT SCALE =
PLOT DATE = 12/18/2008

DESIGNED - J.W.F.
DRAWN - D.T.M.
CHECKED - S.W.M.
DATE - 10/15/08

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
SCALE: 5 SHEET NO. OF SHEETS

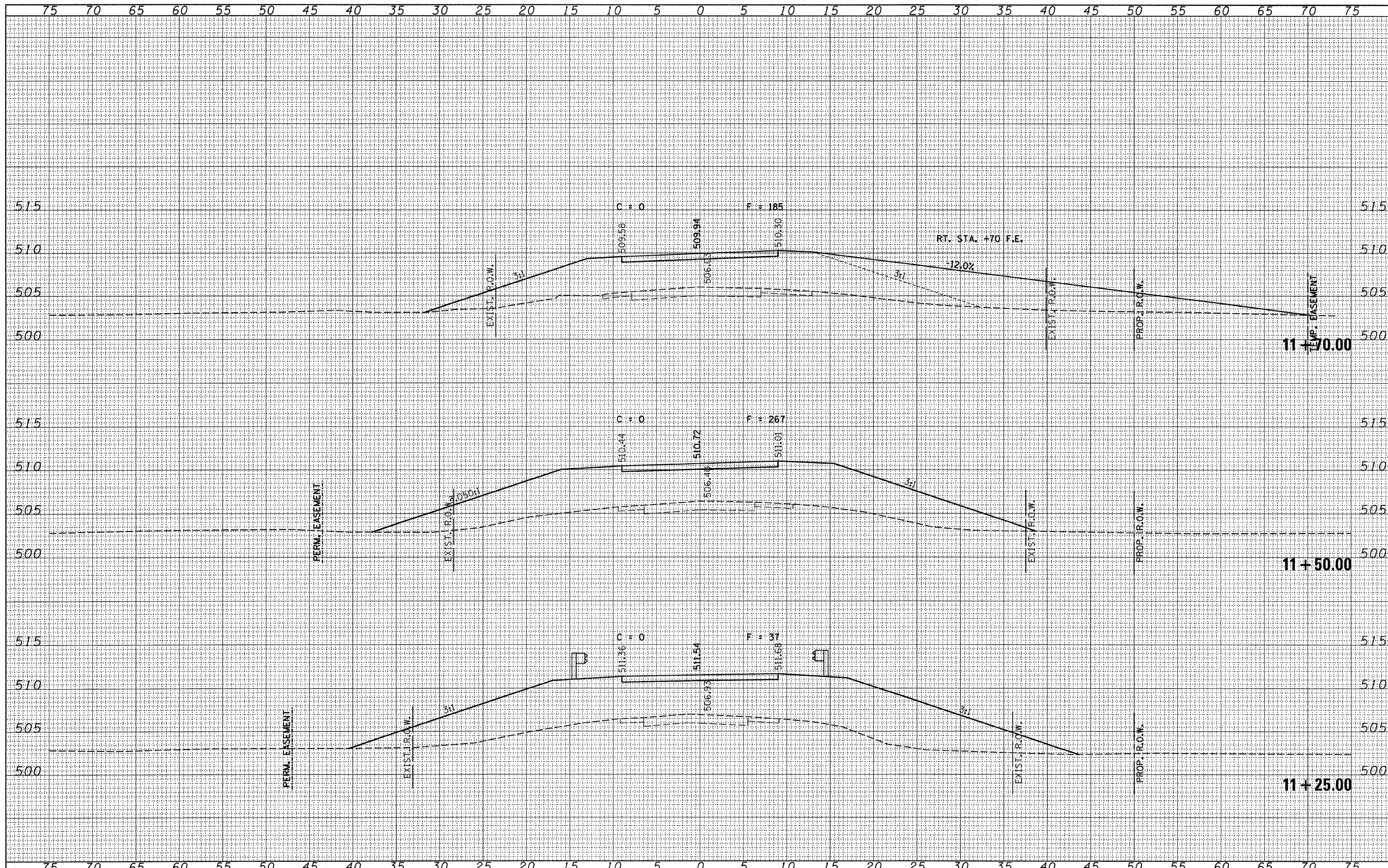
**CROSS SECTIONS
MALECKI ROAD**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	14
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA. 10+75.00 TO STA. 11+00.00

DATE	
BY	
SURVEYED	
FINAL SURVEY	
NOTE BOOK	
NO.	
TEMP. AREAS CHECKED	
PERM. AREAS CHECKED	

DATE	
BY	
SURVEYED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
TEMP. AREAS CHECKED	
PERM. AREAS CHECKED	



FILE NAME = 080126-shr-xxx.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 12/18/2008

DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

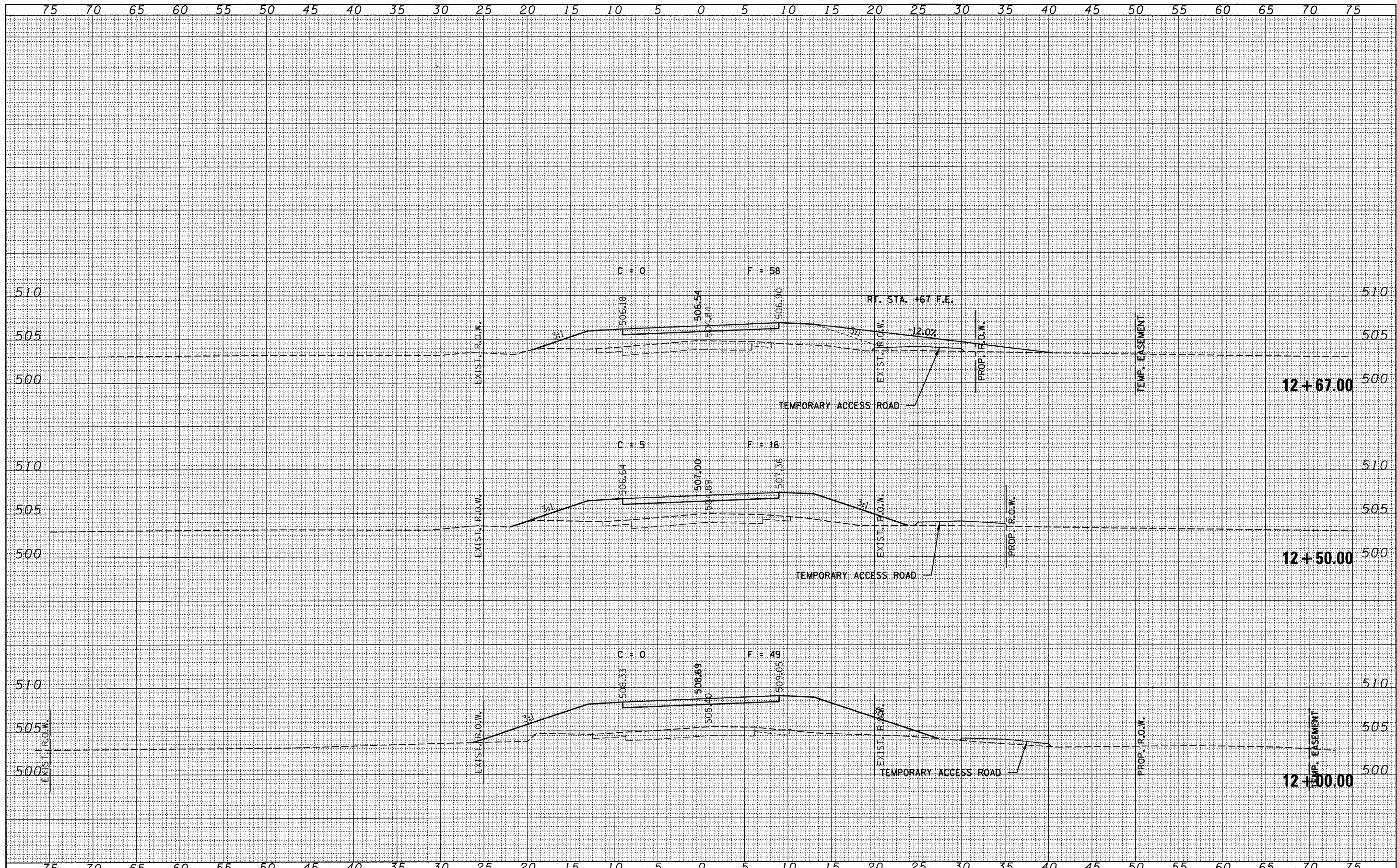
HLR HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 SCALE: 5

**CROSS SECTIONS
 MALECKI ROAD**
 STA. 11+25.00 TO STA. 11+70.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	15
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

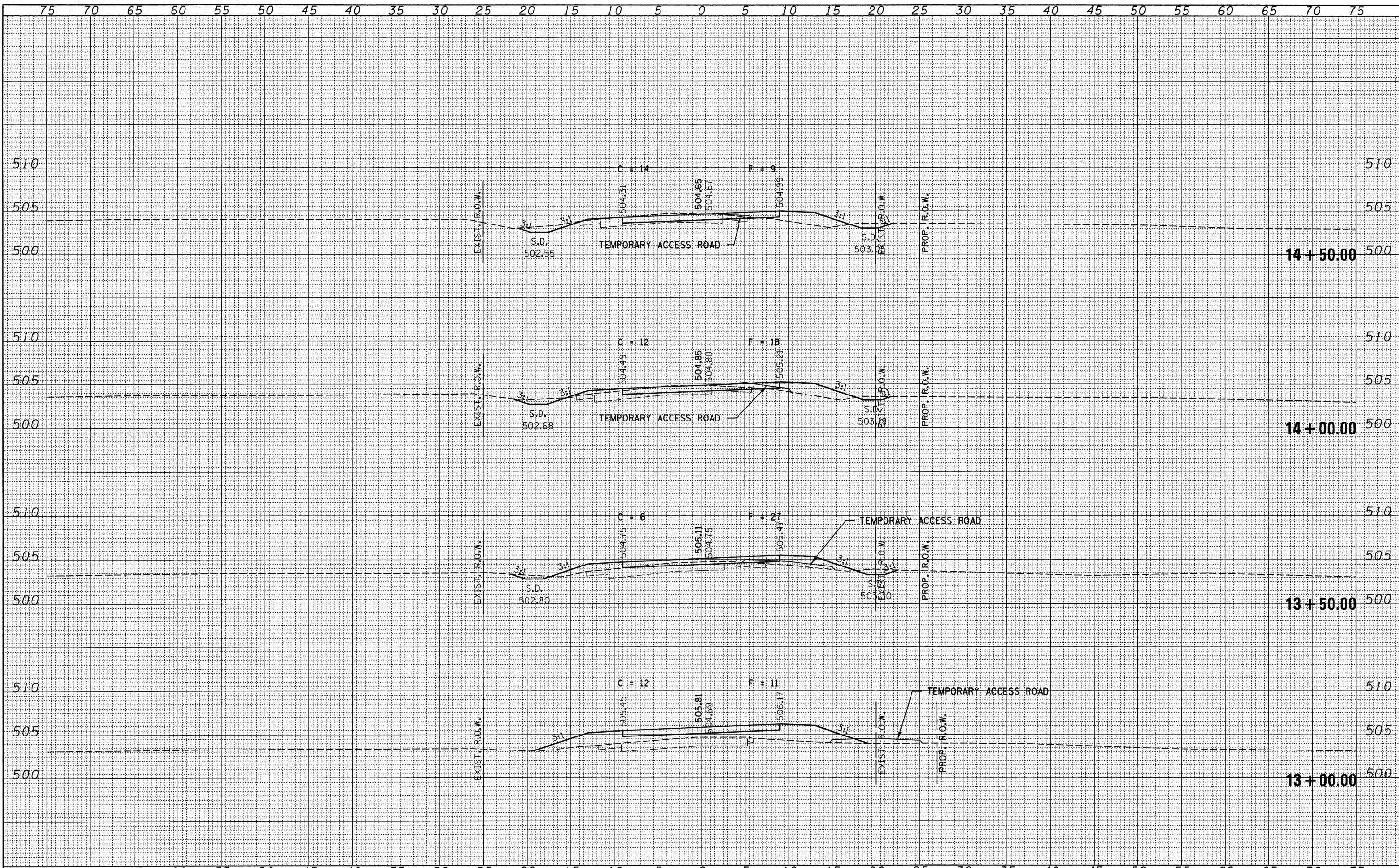
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	
	FIELD CHECKED	



FILE NAME = 090126-sht-exs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS	CROSS SECTIONS MALECKI ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DESIGNED - J.W.F.	REVISED -	131				07-06121-00-BR	JEFFERSON	30	16	
PLOT SCALE =	CHECKED - S.W.M.	REVISED -	FARRINGTON ROAD DISTRICT				CONTRACT NO. 99350				
PLOT DATE = 1/6/2009	DATE - 10/15/08	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

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

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



FILE NAME = 080126-sht-sxs.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 1/6/2009

DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

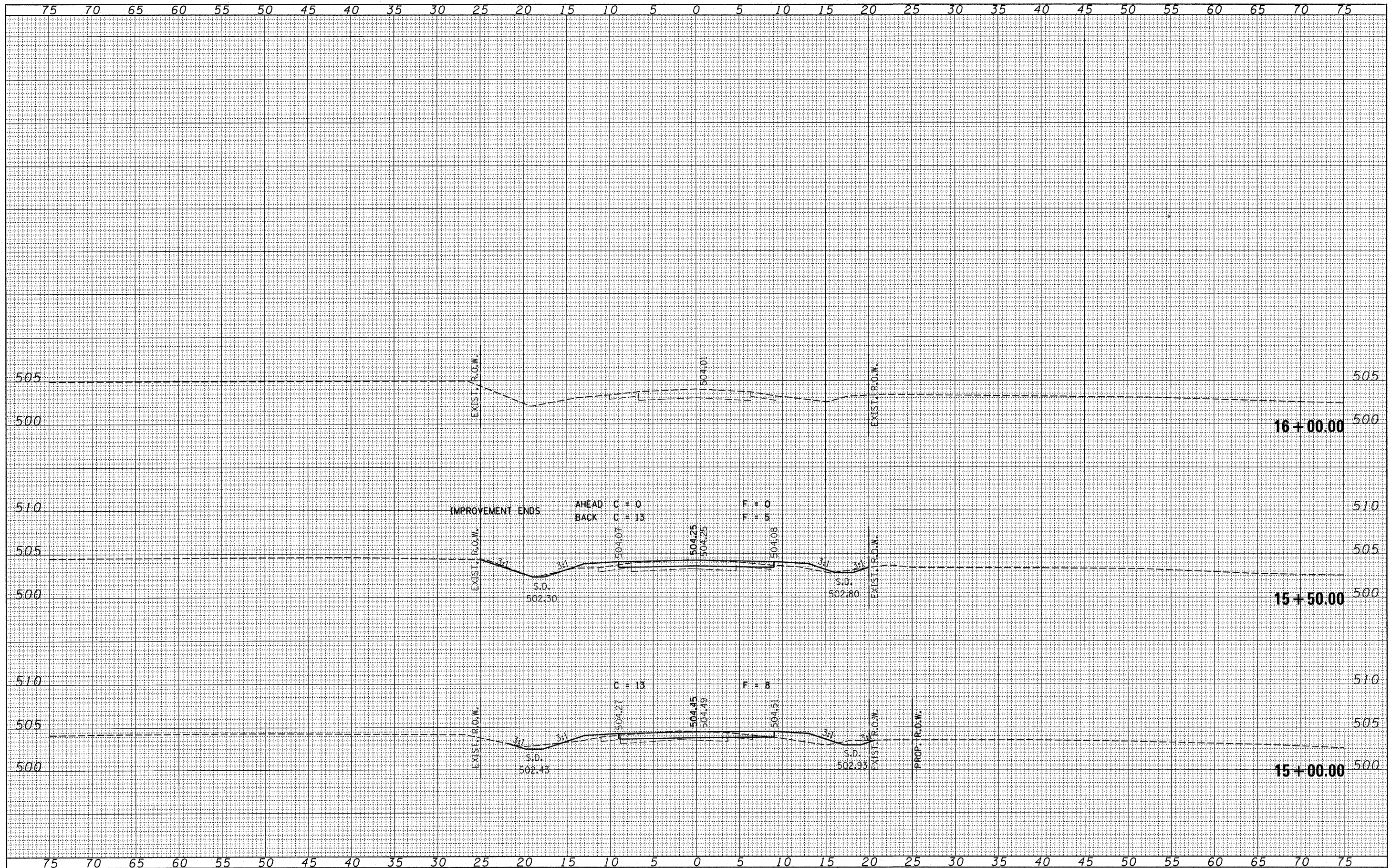
HLR HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 SCALE: 5 SHEET NO. OF SHEETS

CROSS SECTIONS
MALECKI ROAD
 STA. 13+00.00 TO STA. 14+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	17
FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 080126-sht-sxs.dgn

USER NAME =
 DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 PLOT DATE = 12/18/2008

REVISOR -
 REVISION -
 REVISION -
 REVISION -

DATE - 10/15/08

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT



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

CROSS SECTIONS
 MALECKI ROAD

SCALE: 5 SHEET NO. OF SHEETS

STA. 15+00.00 TO STA. 16+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	18
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
ILLINOIS FED. AID PROJECT				

BENCHMARK: Spike nail in power pole. 42' Rt., Sta. 11+83, Elev. 504.58

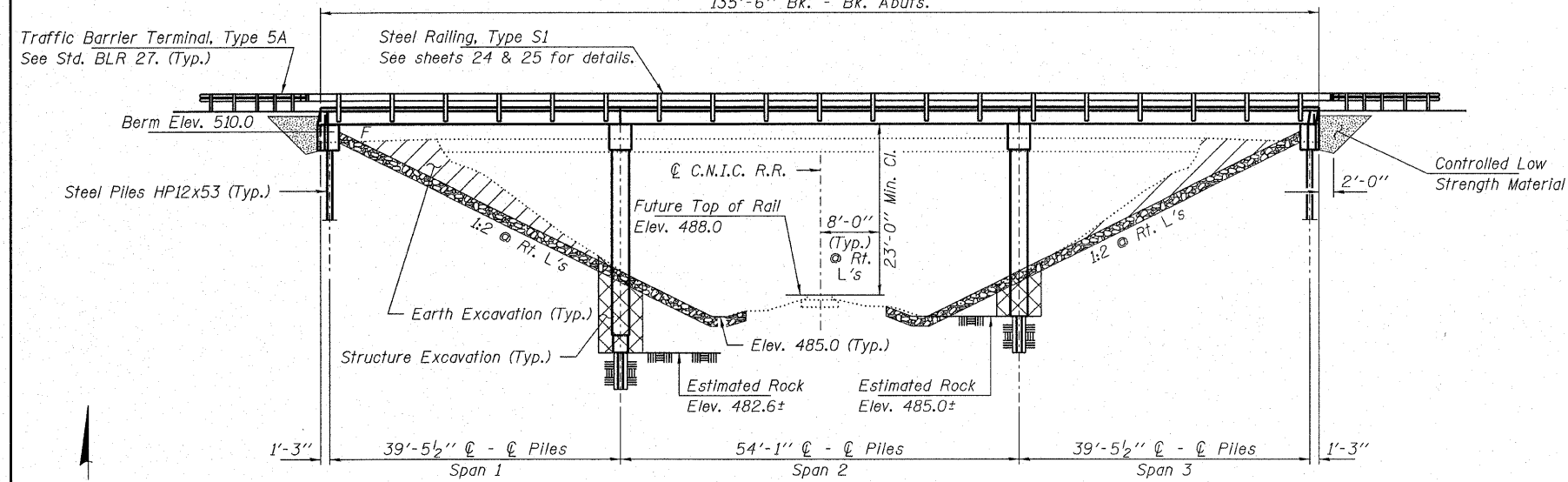
EXISTING STRUCTURE NO. 041-3027: A seven span timber deck & stringer bridge on timber pile bent abutments and piers with timber wingwalls. 101.45' fc.-fc. abutts.; 16.0' o.-o. deck. Structure closed to traffic.

No Salvage

Traffic Barrier Terminal, Type 5A
See Std. BLR 27. (Typ.)

Steel Railing, Type S1
See sheets 24 & 25 for details.

135'-6" Bk. - Bk. Abutts.

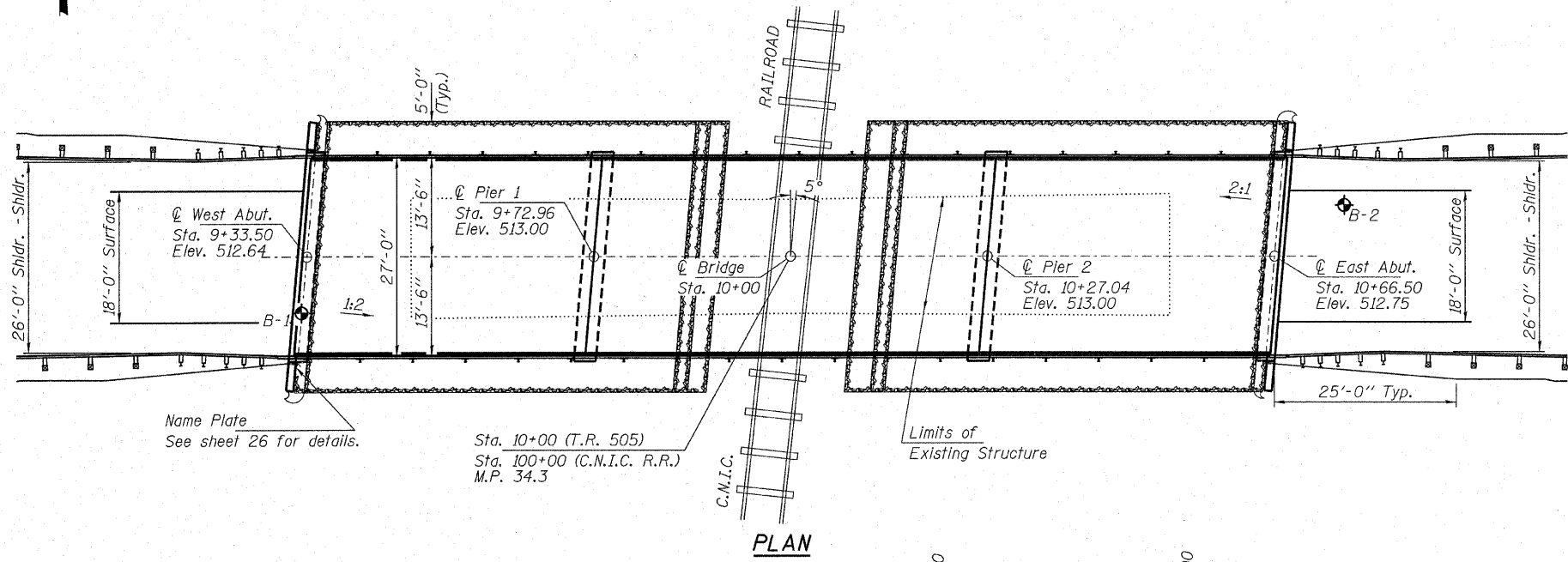
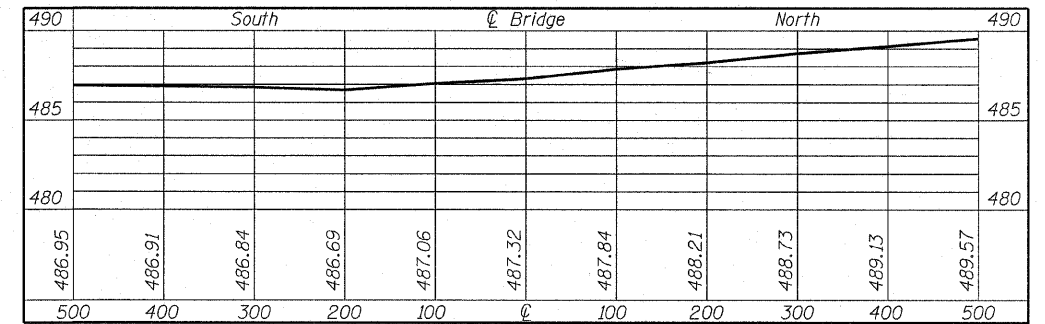


ELEVATION

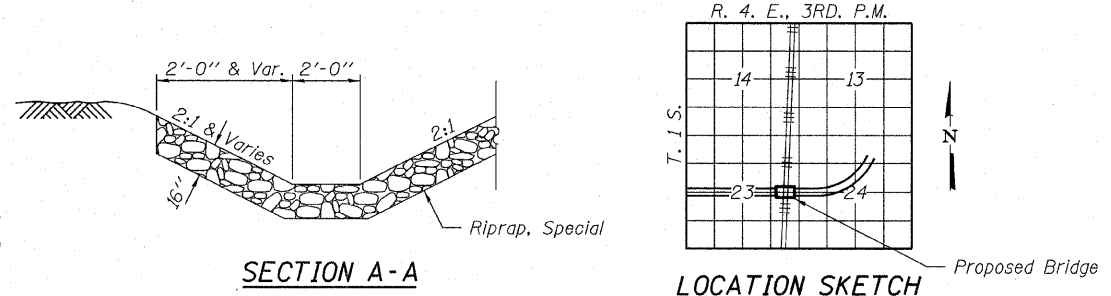
C.N.I.C. RAILROAD
BUILT 200_ BY
JEFFERSON COUNTY
SEC. 07-0621-00-BR
FARRINGTON ROAD DISTRICT
STR. NO. 041-3738
LOADING HL-93

NAME PLATE
See Std. 515001

HIGH RAIL PROFILE



PLAN



SECTION A-A

LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Riprap, Special	Ton		380	380
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			75
Concrete Structures	Cu. Yd.		152.3	152.3
Concrete Encasement	Cu. Yd.		4.4	4.4
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,618		3,618
Reinforcement Bars	Pound		11,720	11,720
Steel Railing, Type S1	Foot	276		276
Furnishing Steel Piles HP12x53	Foot		652	652
Driving Piles	Foot		280	280
Name Plates	Each		1	1
Controlled Low Strength Material	Cu. Yd.		50	50
Setting Piles In Rock	Each		12	12

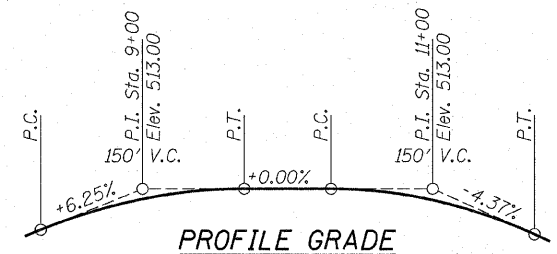
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

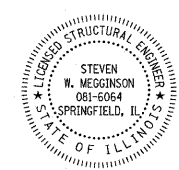
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" low lax. strands)
fpbt = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinf.)



PROFILE GRADE

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 12-18-2008
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-10

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 041-3738

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

LOADING HL-93

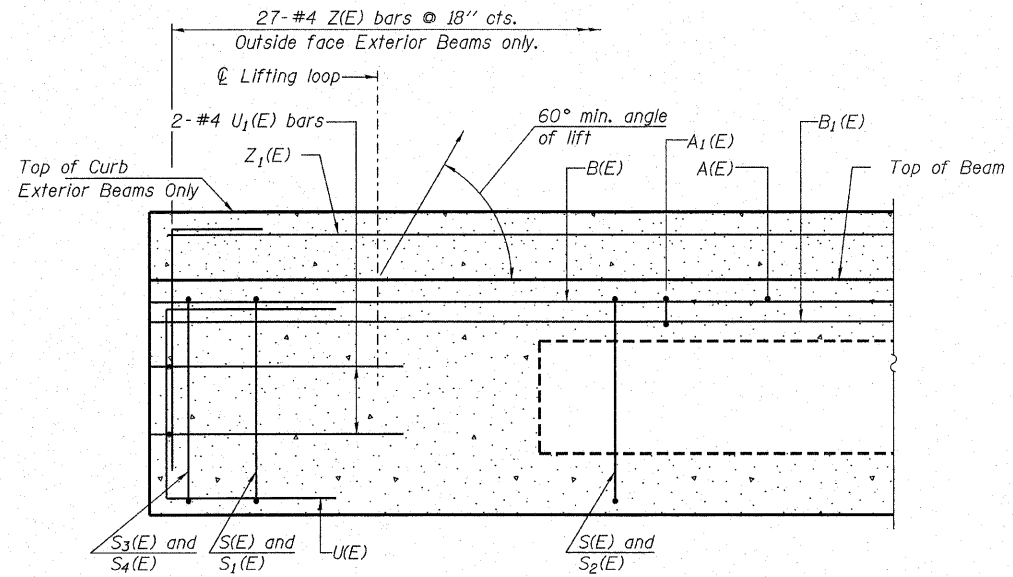
Design Specifications: 2007 AASHTO LRFD with all applicable Interims.
50#/Sq. Ft. Included in dead load for future wearing surface.

SEISMIC DATA

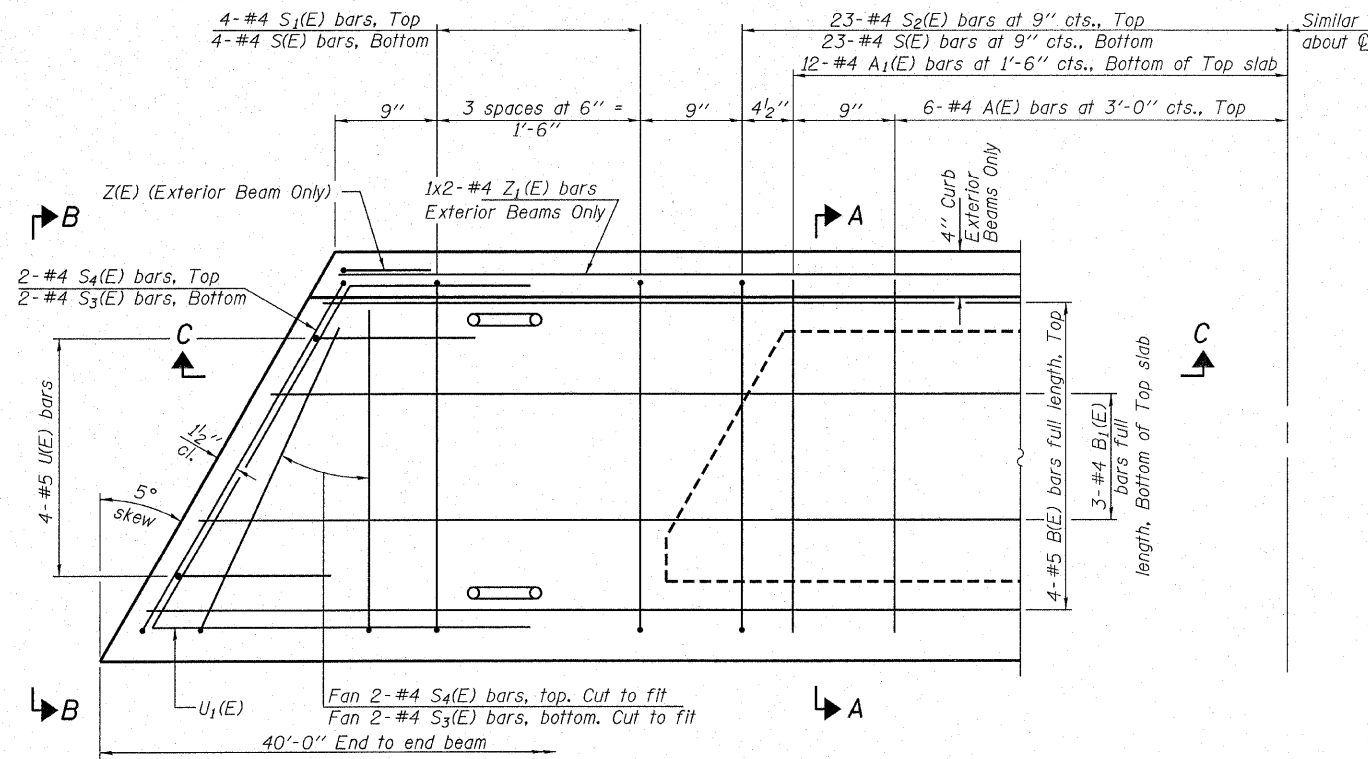
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.258g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.679g
Soil Site Class = D

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 08.0126.130 DATE: 12/16/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-0621-00-BR	JEFFERSON	30	19
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

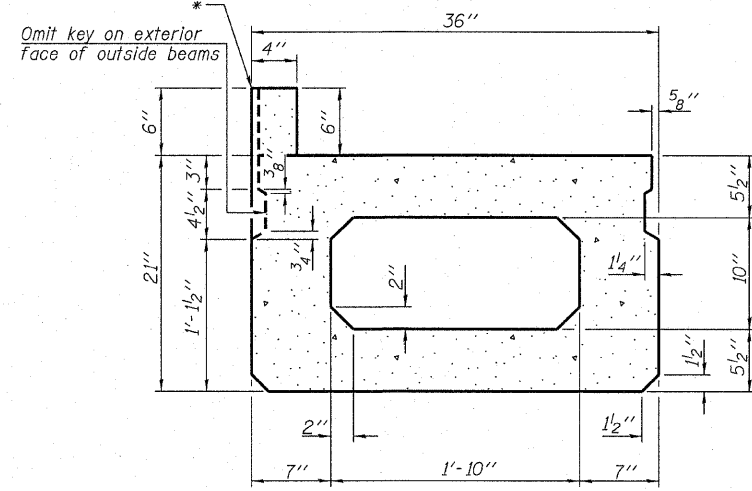


SECTION C-C



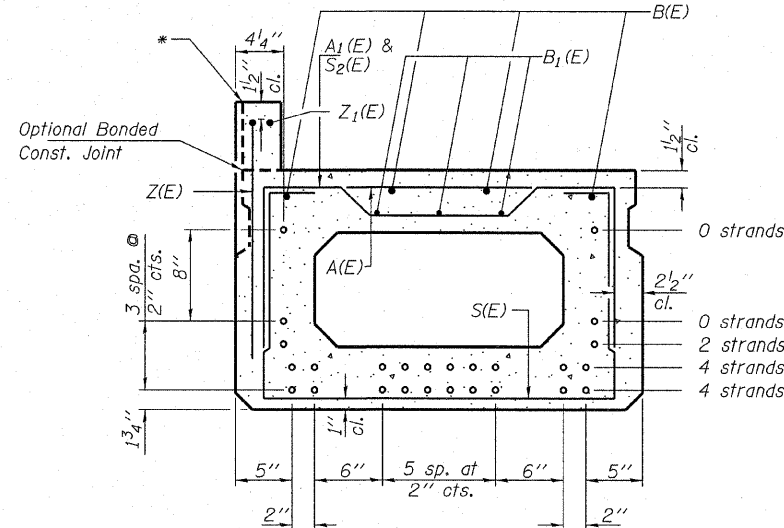
PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION A-A

(Showing dimensions)

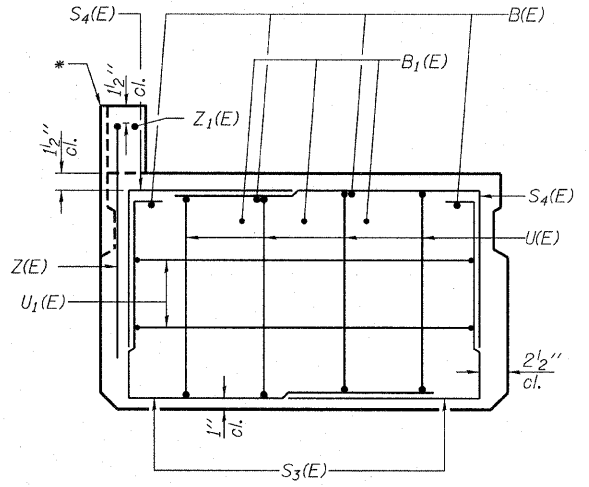


SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

* The exterior beams shall be cast with a 4" wide x 6" high concrete curb with reinforcement cast integrally with the beam. The Z(E) and Z1(E) bars shall be included in the unit cost for deck beams.



VIEW B-B

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	2'-7"	—
A1(E)	24	#4	2'-11"	—
B(E)	4	#5	39'-8"	—
B1(E)	3	#4	39'-8"	—
S(E)	54	#4	6'-5"	┌
S1(E)	8	#4	4'-11"	┌
S2(E)	46	#4	5'-2"	┌
S3(E)	8	#4	4'-2"	┌
S4(E)	8	#4	3'-5"	┌
U(E)	8	#5	4'-0"	┌
U1(E)	4	#4	5'-3"	┌
Z(E)	*27	#4	2'-5"	┌
Z1(E)	*2	#4	39'-8"	—

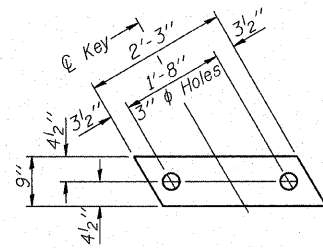
Note: See sheets 21 & 24 for additional details and Bill of Material.

SUPERSTRUCTURE
21" X 36" PPC DECK BEAM
STRUCTURE NO. 041-3738

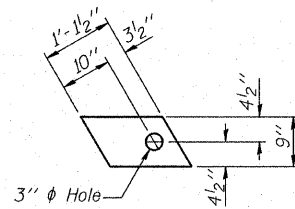
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 08.0126.130 DATE: 12/16/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	20
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



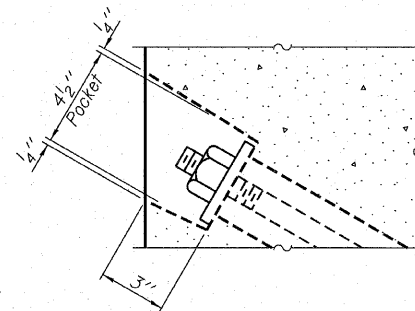
FABRIC BEARING PAD
(Interior - 32 Req'd)



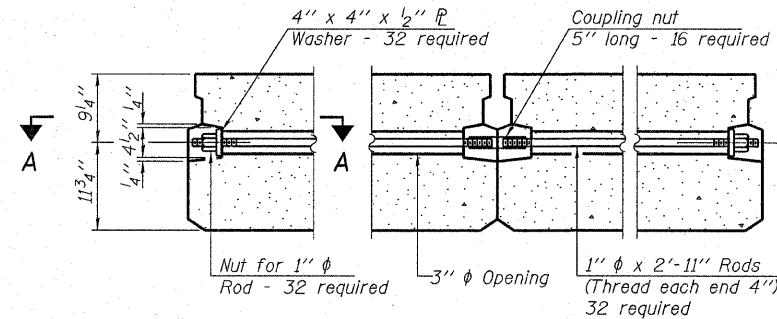
FABRIC BEARING PAD
(Exterior - 4 Req'd)

FIXED

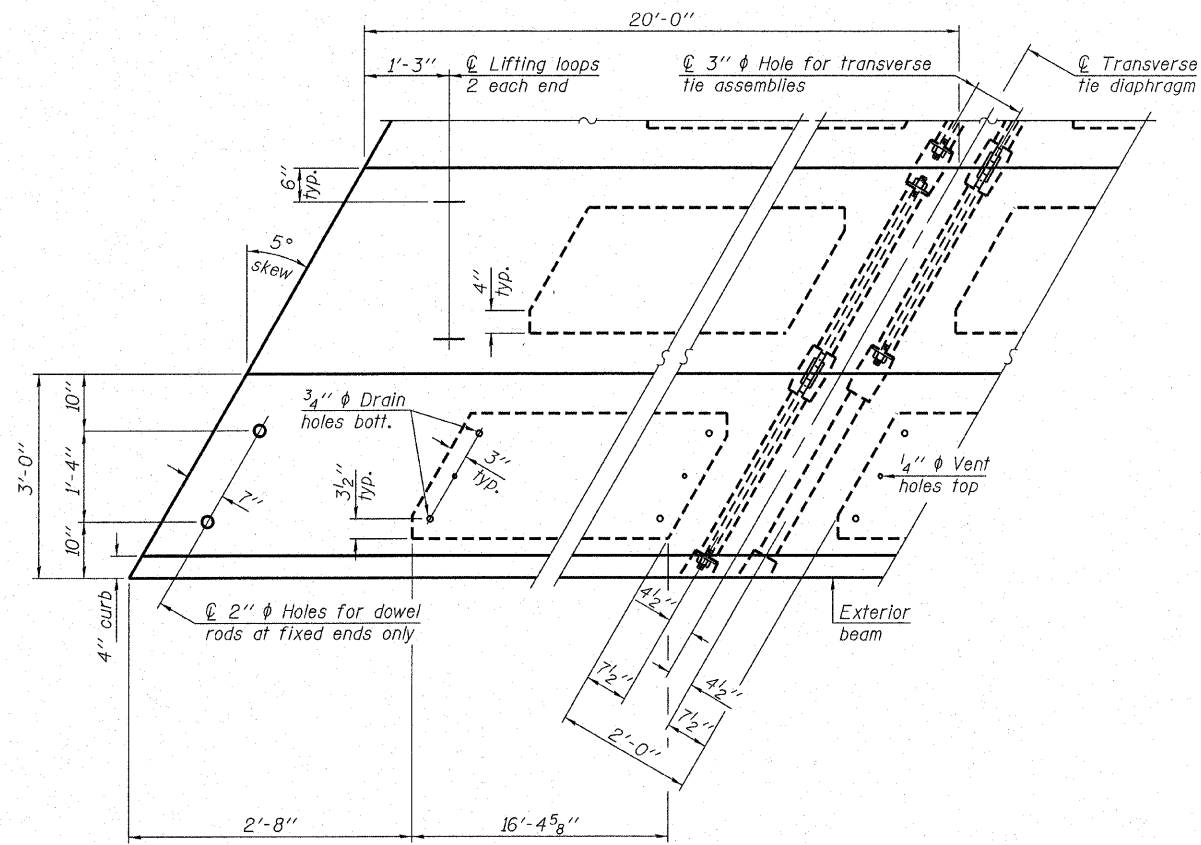
Note: Omit holes when using expansion bearings.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



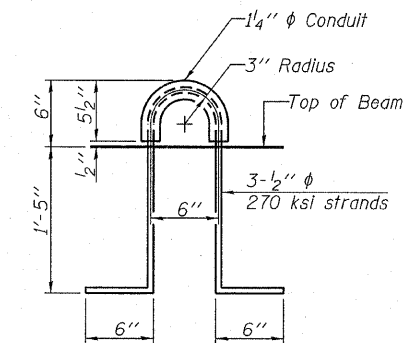
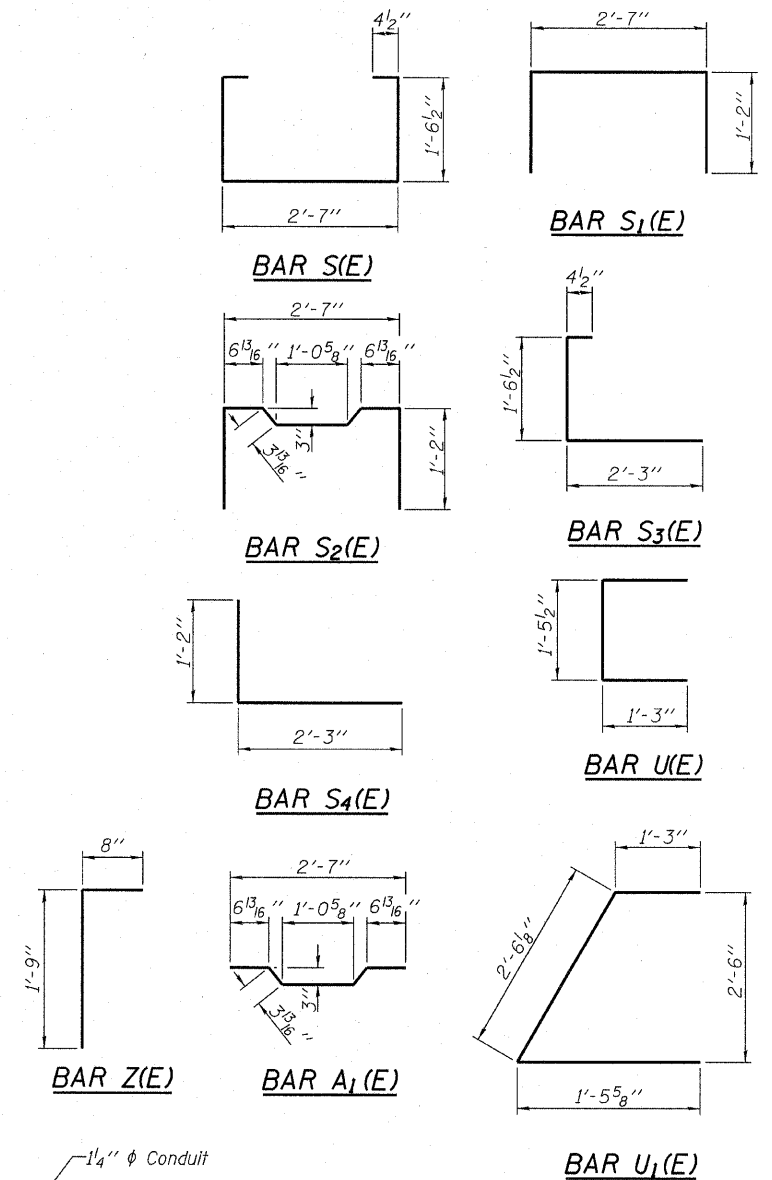
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.



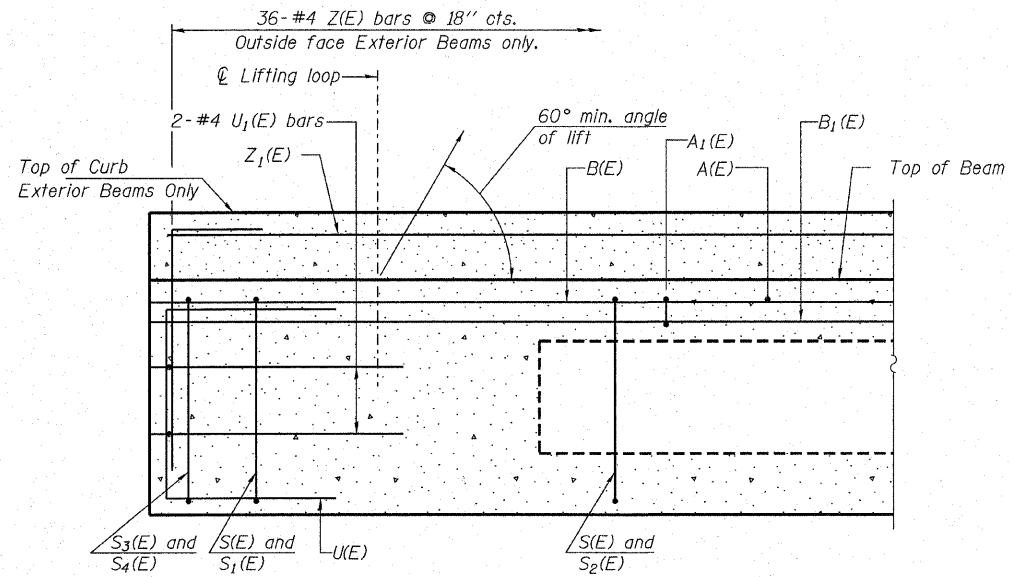
LIFTING LOOP DETAIL

BILL OF MATERIAL

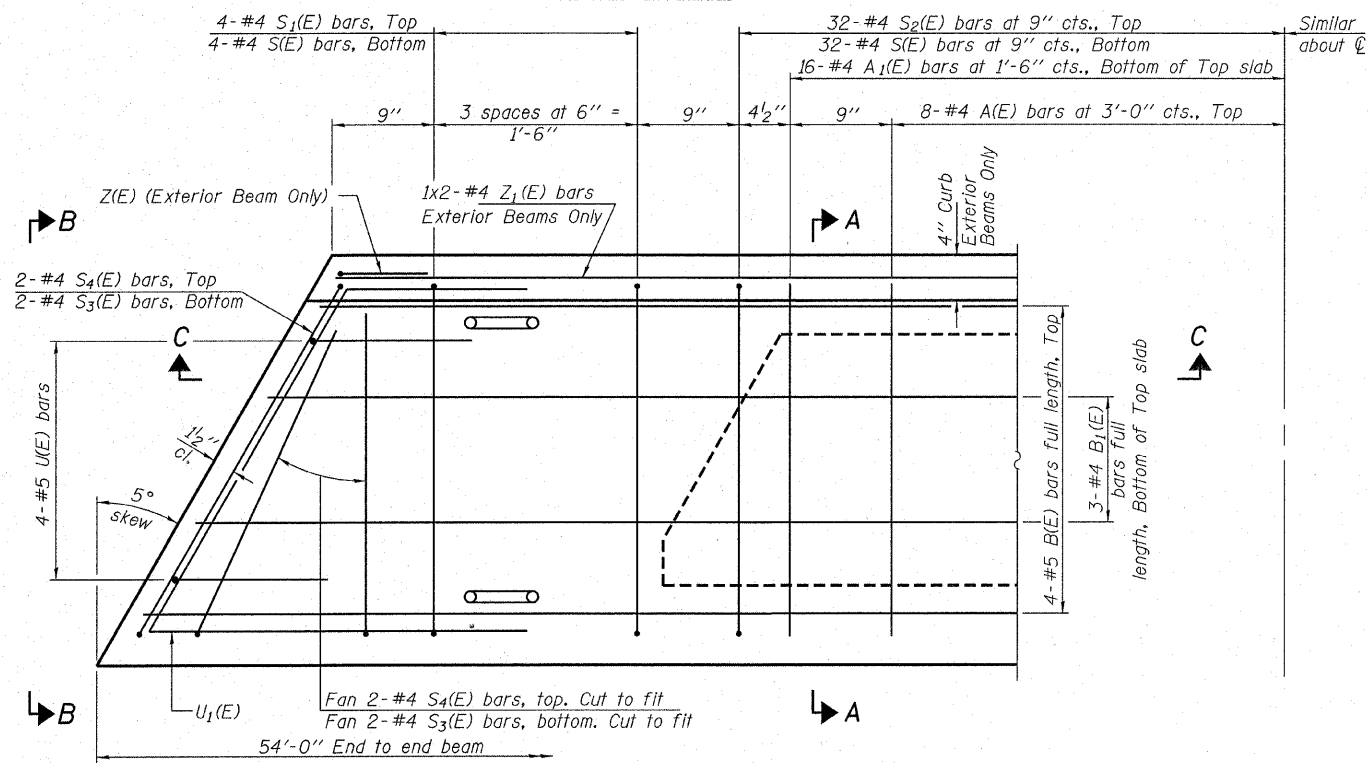
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	2,160
---	---------	-------

SUPERSTRUCTURE
21" X 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 041-3738

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 08.0126.130 DATE: 12/16/08	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	131	07-06121-00-BR	JEFFERSON	30	21
	FARRINGTON ROAD DISTRICT			CONTRACT NO. 99350	
	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

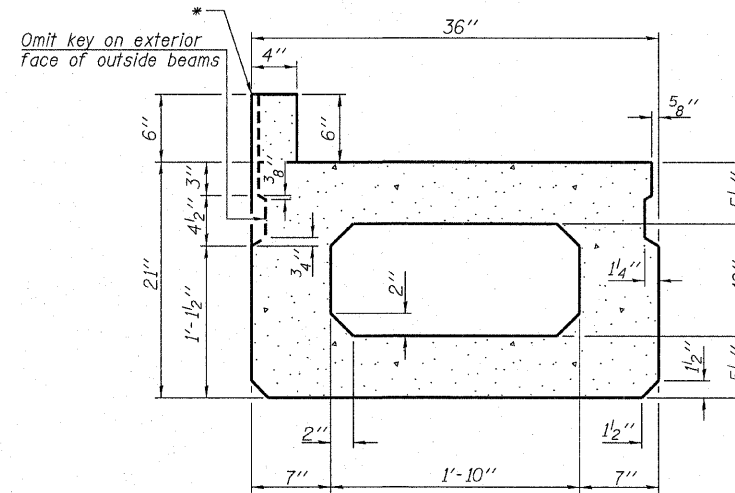


SECTION C-C



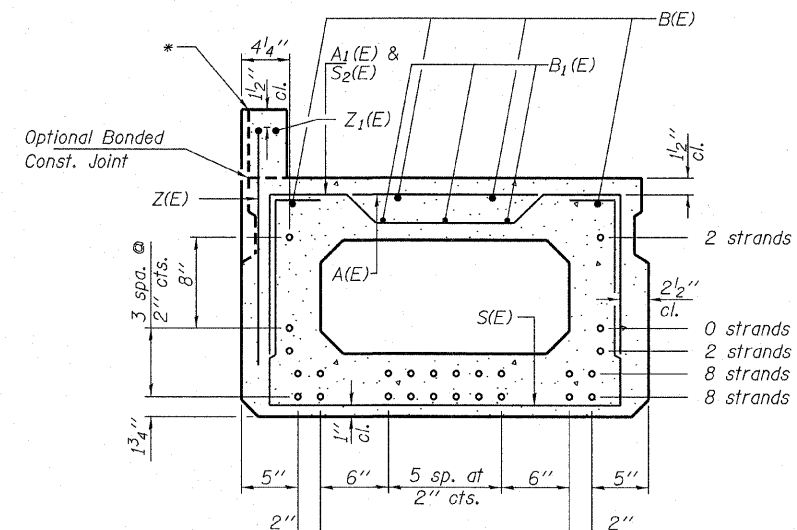
PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION A-A

(Showing dimensions)

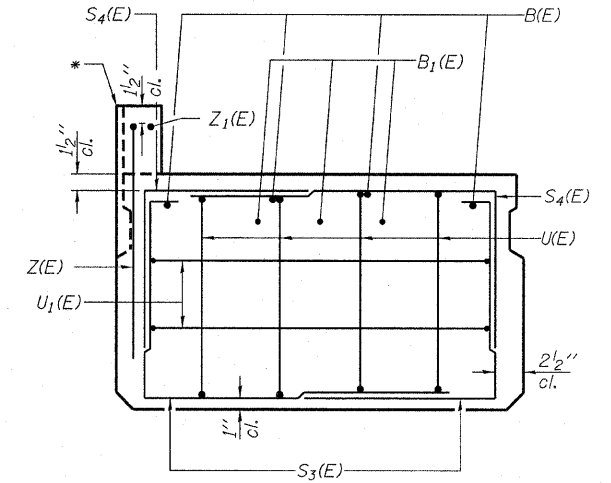


SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

* The exterior beams shall be cast with a 4" wide x 6" high concrete curb with reinforcement cast integrally with the beam. The Z(E) and Z1(E) bars shall be included in the unit cost for deck beams.



VIEW B-B

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	2'-7"	—
A1(E)	32	#4	2'-10"	—
B(E)	4	#5	53'-8"	—
B1(E)	3	#4	53'-8"	—
S(E)	72	#4	6'-5"	U
S1(E)	8	#4	4'-11"	U
S2(E)	64	#4	5'-2"	U
S3(E)	8	#4	4'-2"	U
S4(E)	8	#4	3'-5"	U
U(E)	8	#5	4'-0"	U
U1(E)	4	#4	5'-3"	U
Z(E)	*36	#4	2'-5"	U
Z1(E)	*2	#4	53'-8"	—

Note: See sheets 23 & 24 for additional details and Bill of Material.

SUPERSTRUCTURE
21" X 36" PPC DECK BEAM
STRUCTURE NO. 041-3738

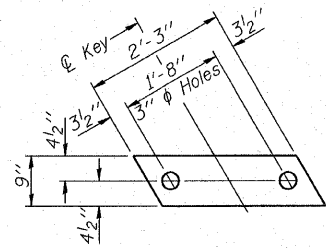
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

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

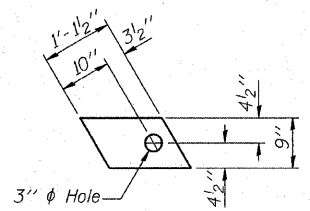
HLR 3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 08 0126 130 DATE: 12/16/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	22
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



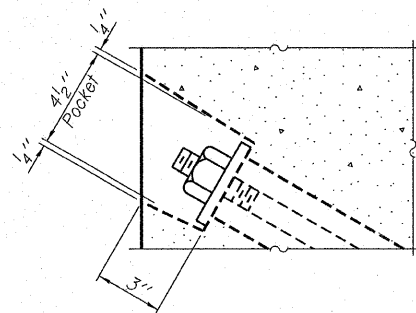
FABRIC BEARING PAD
(Interior - 16 Req'd)



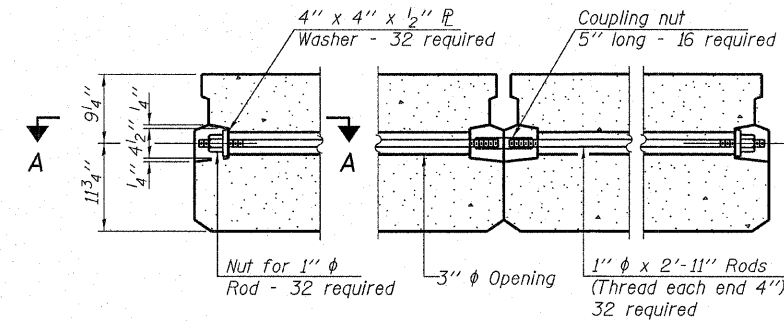
FABRIC BEARING PAD
(Exterior - 4 Req'd)

FIXED

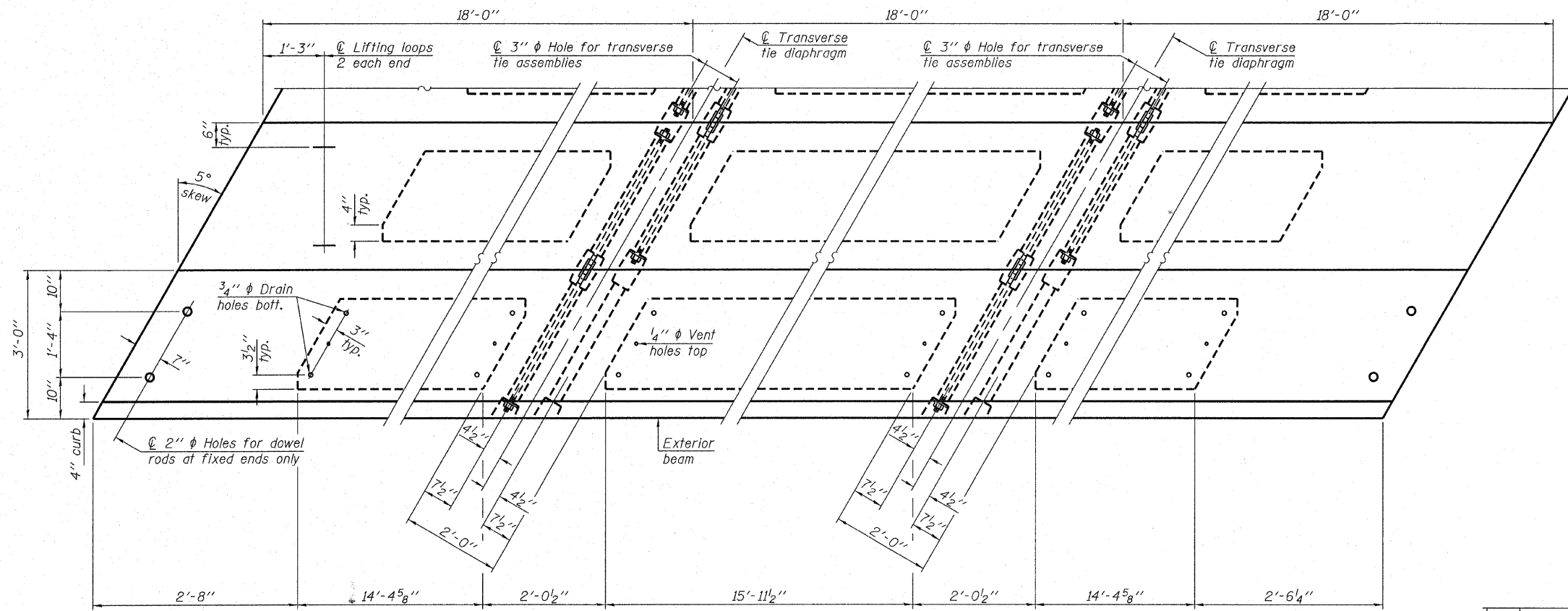
Note: Omit holes when using expansion bearings.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



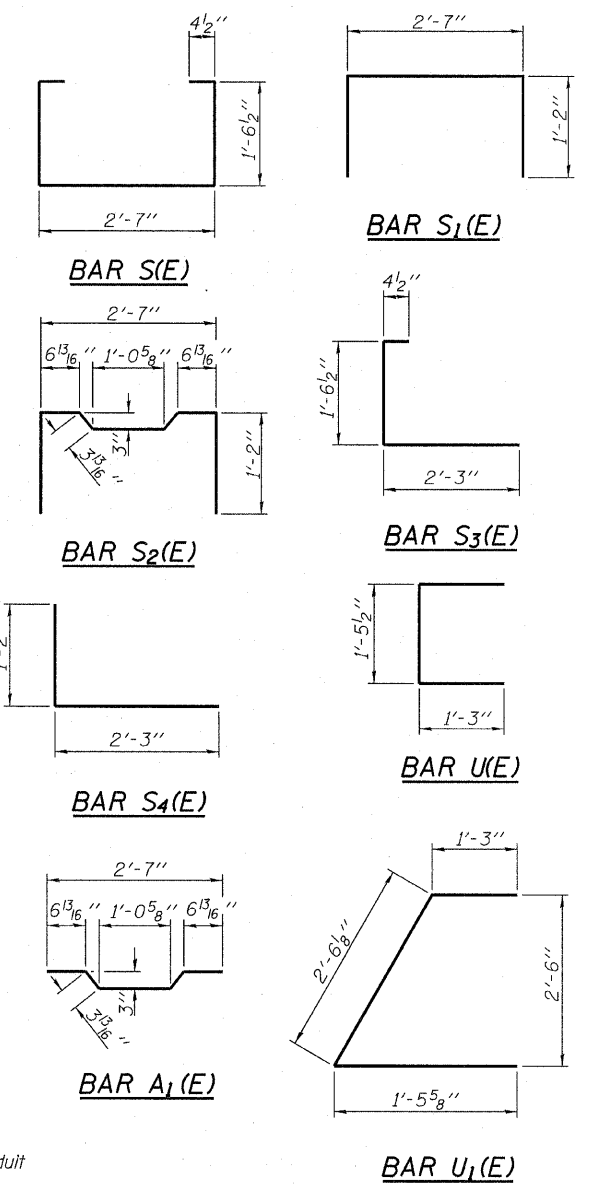
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

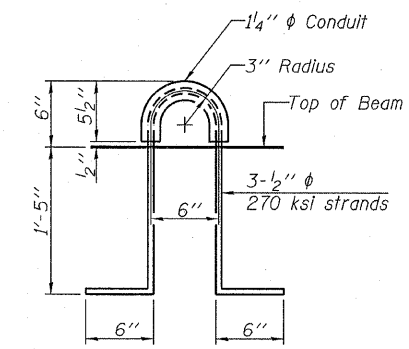
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,458
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SUPERSTRUCTURE
21" X 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 041-3738

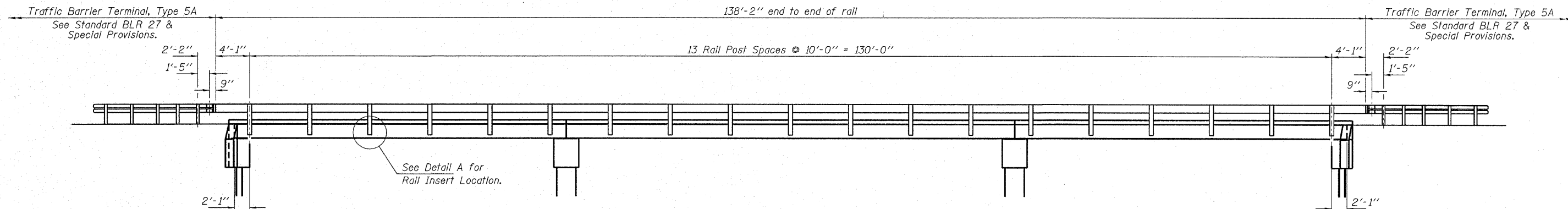


LIFTING LOOP DETAIL

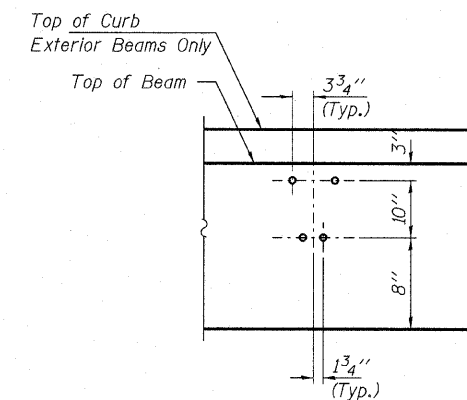
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	23
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

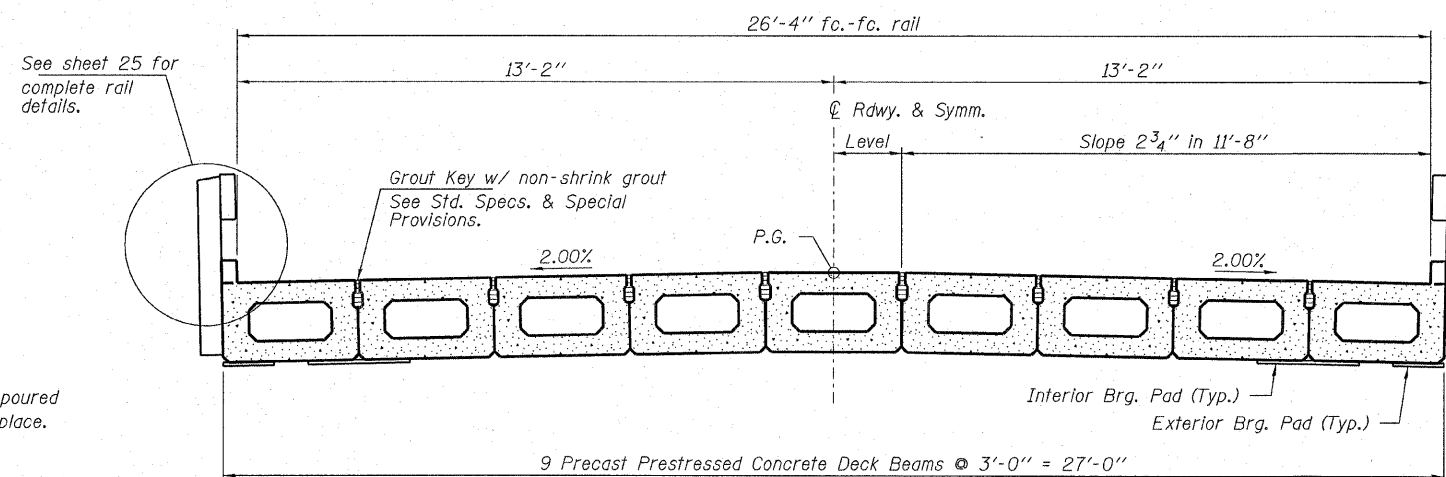
PROJECT NUMBER: 08 0126.130 DATE: 12/16/08



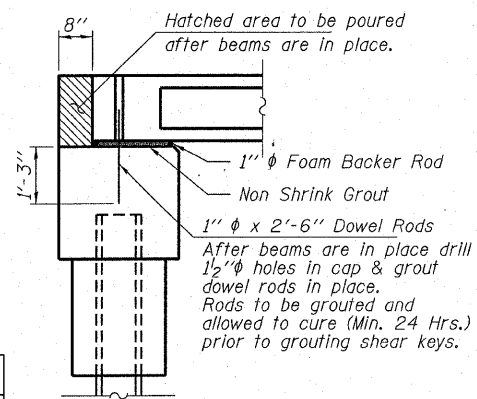
ELEVATION
Showing Rail Post Spaces
See sheet 25 for Railing Details.



DETAIL A
See sheet for Rail Insert Details.



CROSS SECTION
See sheets 20 thru 23 for Superstructure.



SECTION AT ABUTMENTS

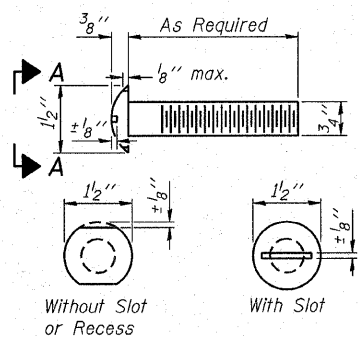
• Rt. L's
Note: Shim beams to maintain 1/2" min. clearance between the beam and cap.

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

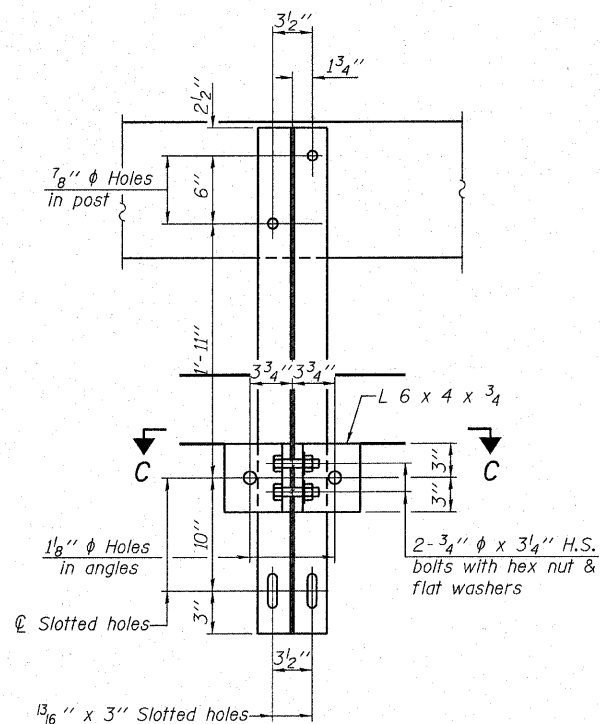
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 041-3738

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 08.0126.130 DATE: 12/16/08

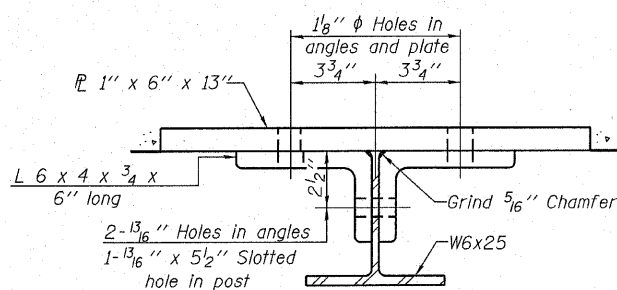
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	24
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



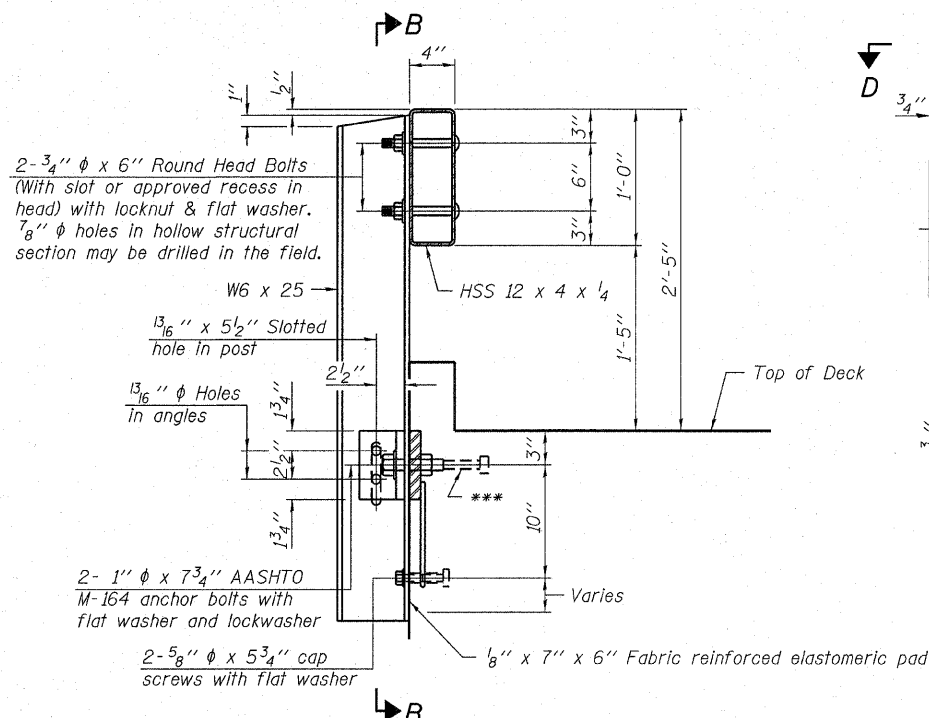
VIEW A-A ROUND HEAD BOLT



SECTION B-B

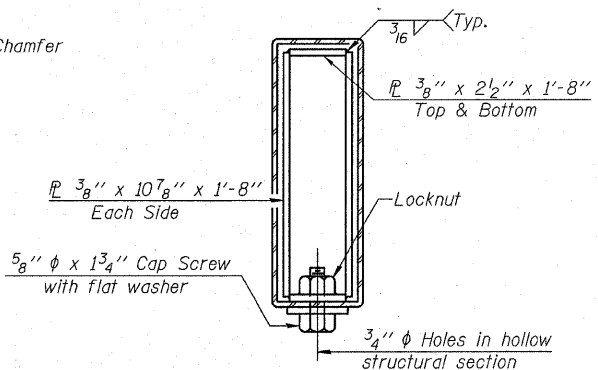


SECTION C-C

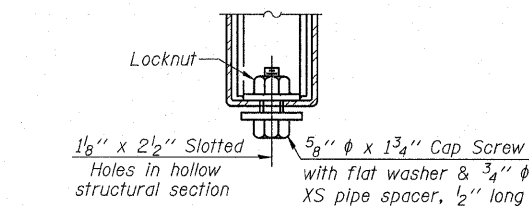


SECTION AT RAILING POST

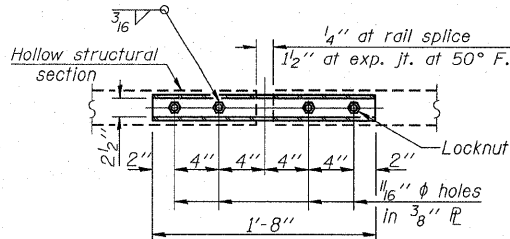
**Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



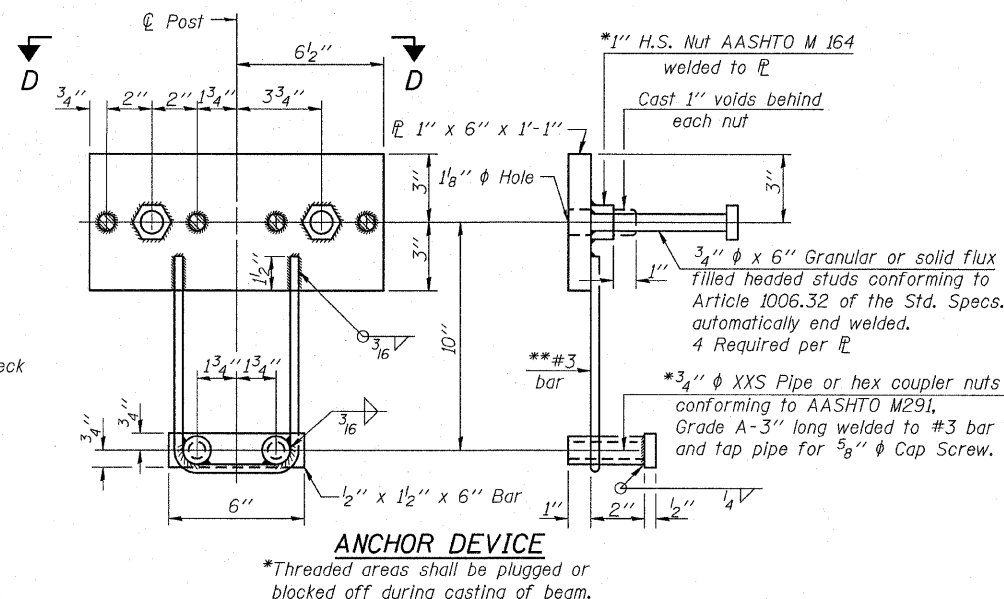
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.

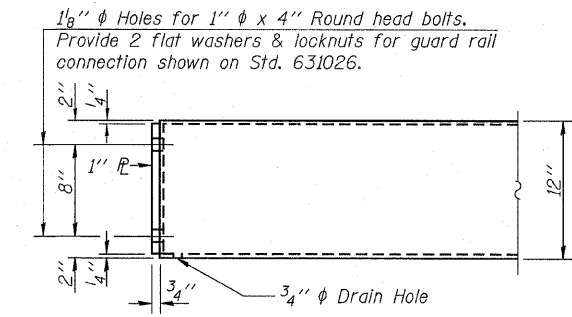


PLAN-BOTTOM SPLICE TYPICAL



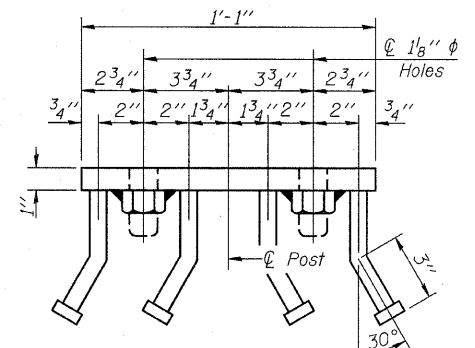
ANCHOR DEVICE

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



END OF RAIL DETAILS

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ***The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	276

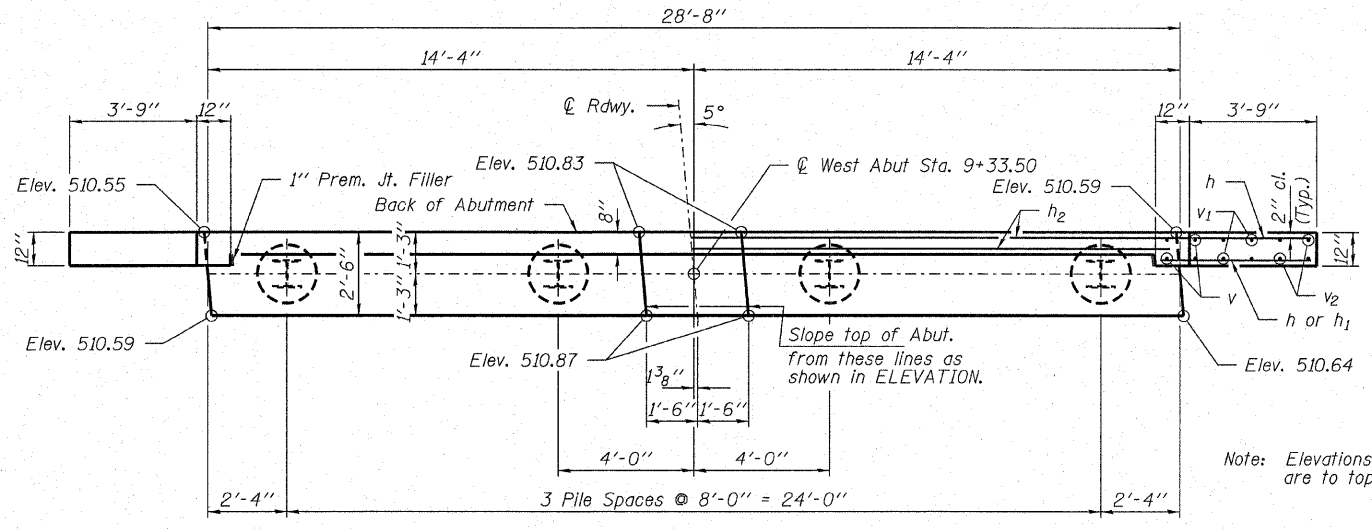
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

(10'-9" Maximum Post Spacing)

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 08.0126.130 DATE: 12/16/08

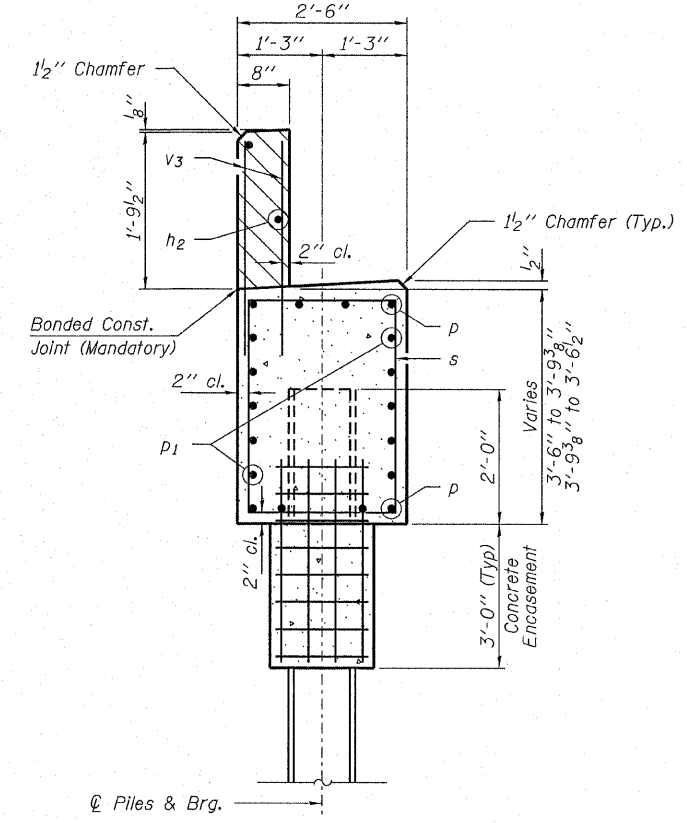
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	25
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STEEL RAILING, TYPE S-1
 STRUCTURE NO. 041-3738



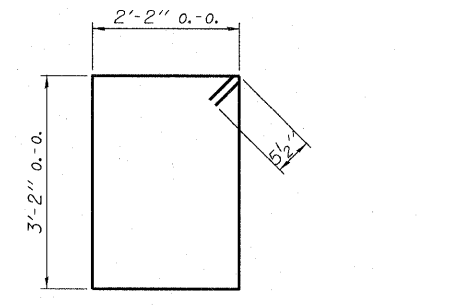
PLAN

Note: Elevations shown in PLAN are to top of cap.

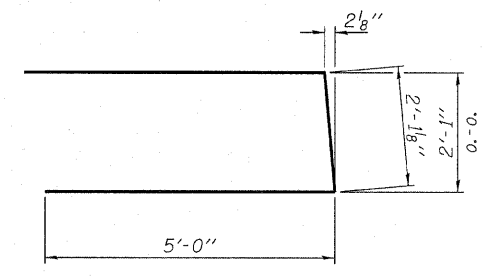


SECTION A-A

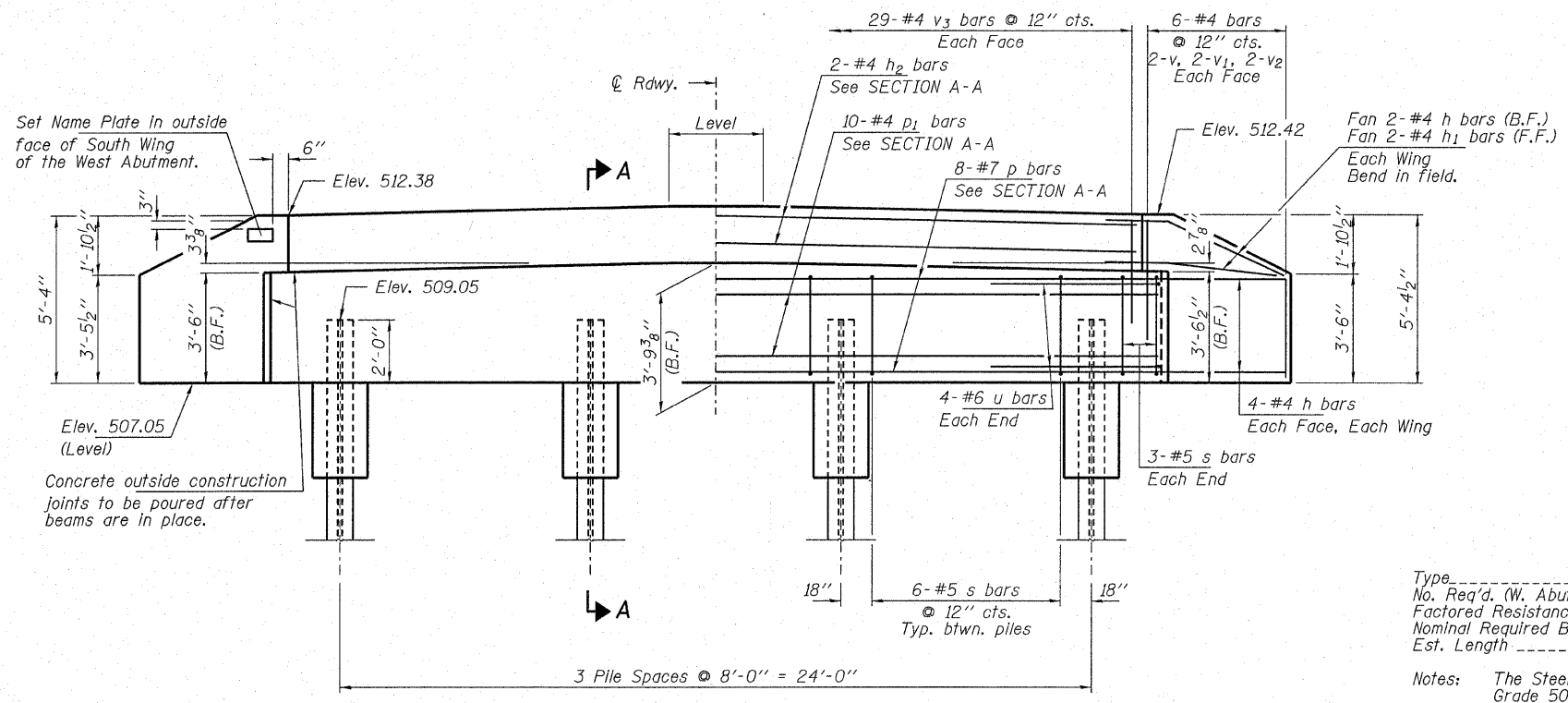
Hatched area to be poured after beams are in place.



BAR s



BAR u



ELEVATION

PILE DATA

Type: Steel HP12x53
 No. Req'd. (W. Abut.): 4
 Factored Resistance Available (RF): 209 Kips/Pile
 Nominal Required Bearing (Rn): 419 Kips/Pile
 Est. Length: 35 Ft/Pile
 Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.

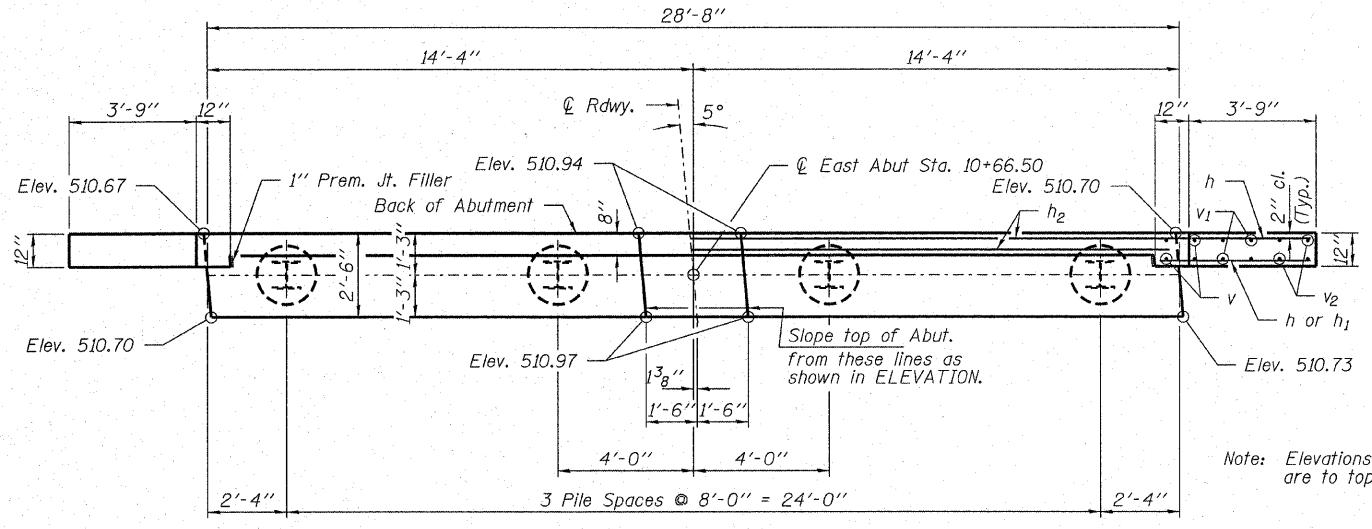
BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	20	#4	6'-0"	—
h1	4	#4	4'-6"	—
h2	2	#4	28'-4"	—
p	8	#7	28'-4"	—
p1	10	#4	28'-4"	—
s	24	#5	11'-7"	□
u	8	#6	12'-2"	U
v	8	#4	5'-1"	—
v1	8	#4	4'-1"	—
v2	8	#4	3'-1"	—
v3	58	#4	2'-8"	—
Concrete Structures			Cu. Yd.	12.5
Concrete Encasement			Cu. Yd.	1.4
Reinforcement Bars			Pound	1,390
Steel Piles HP12x53			Foot	140
Name Plates			Each	1

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

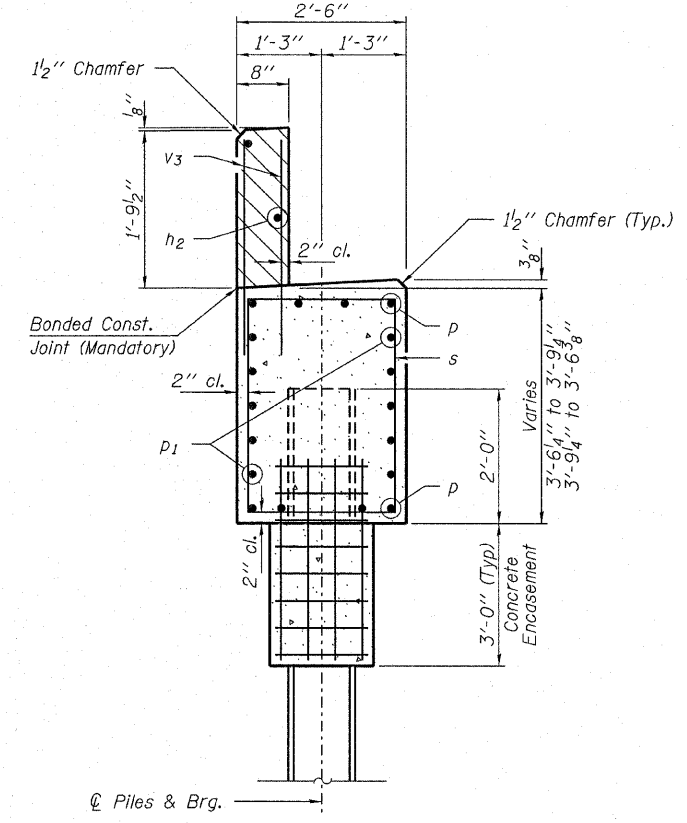
**WEST ABUTMENT
 STRUCTURE NO. 041-3738**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 08.0126.130 DATE: 12/16/08	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	131	07-06121-00-BR	JEFFERSON	30	26
	FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



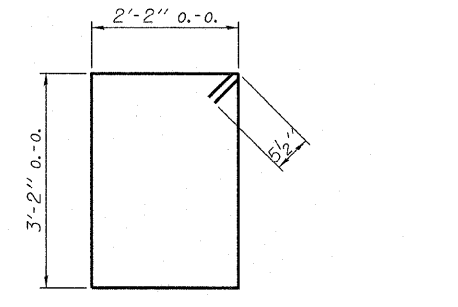
PLAN

Note: Elevations shown in PLAN are to top of cap.

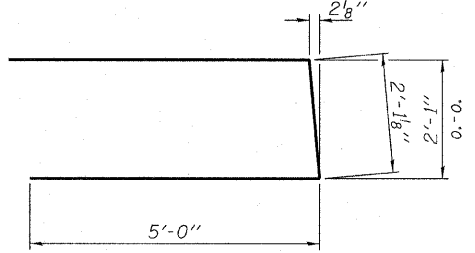


SECTION A-A

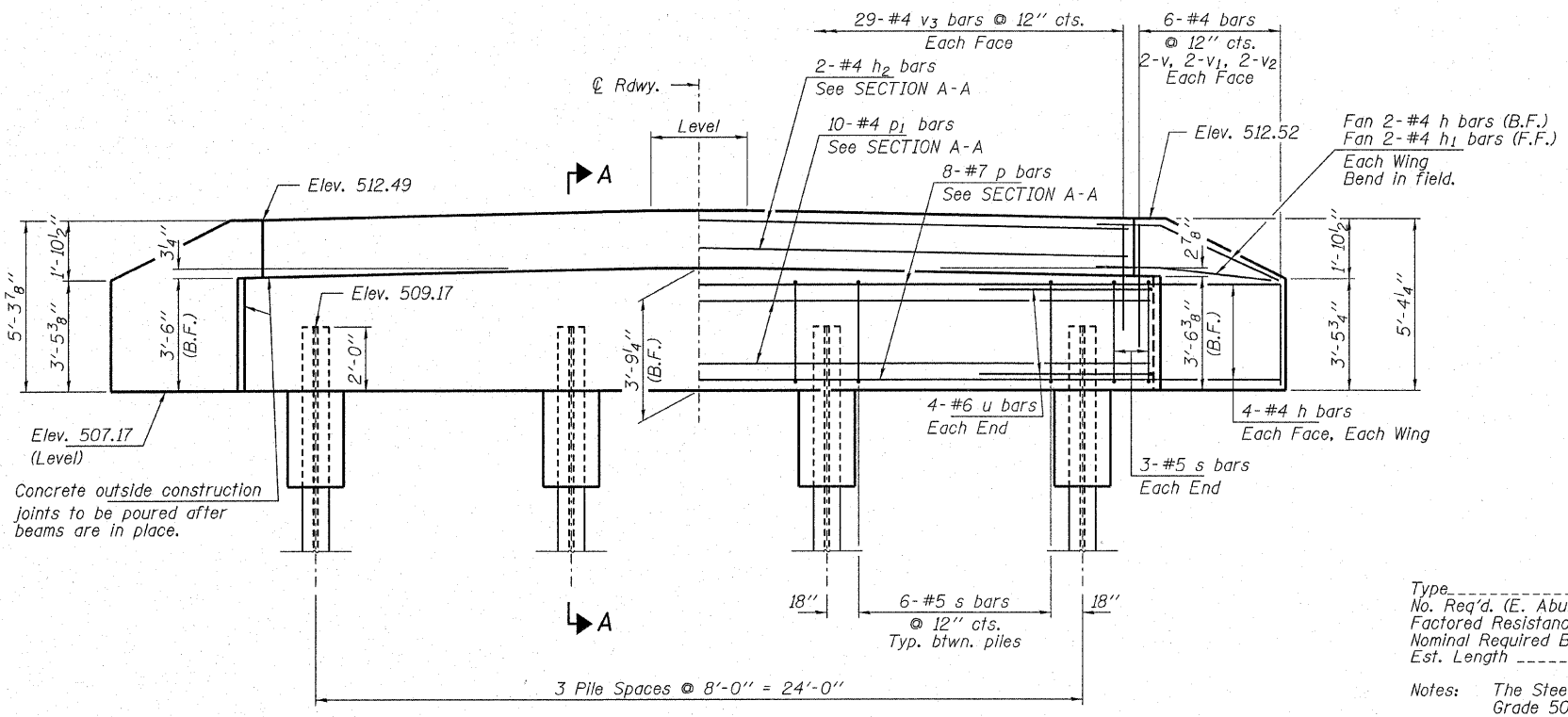
Hatched area to be poured after beams are in place.



BAR s



BAR u



ELEVATION

PILE DATA

Type: Steel HP12x53
 No. Req'd. (E. Abut.): 4
 Factored Resistance Available (RF): 209 Kips/Pile
 Nominal Required Bearing (Rn): 419 Kips/Pile
 Est. Length: 35 Ft/Pile

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

BILL OF MATERIAL - E. ABUT.

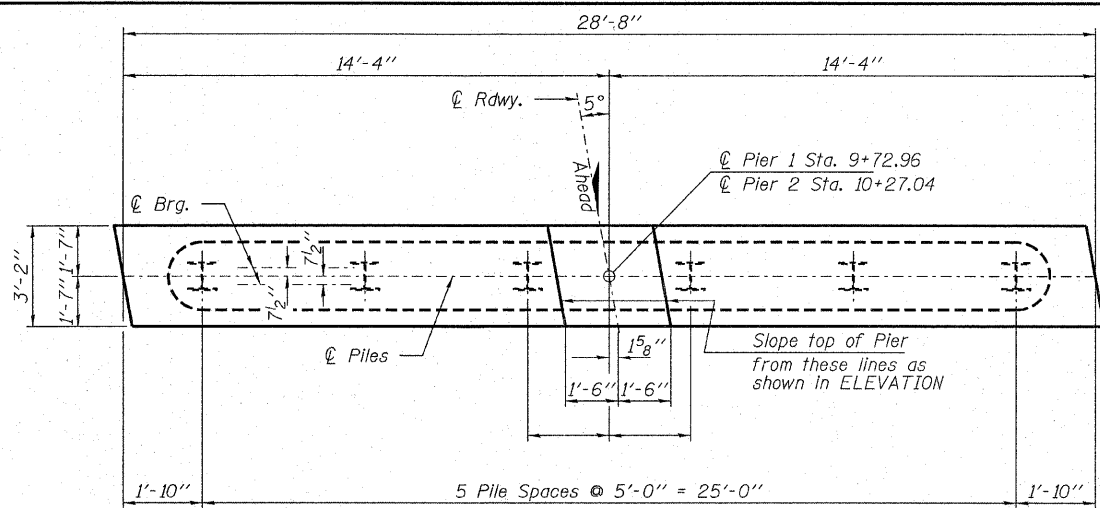
BAR	NO.	SIZE	LENGTH	SHAPE
h	20	#4	6'-0"	—
h1	4	#4	4'-6"	—
h2	2	#4	28'-4"	—
p	8	#7	28'-4"	—
p1	10	#4	28'-4"	—
s	24	#5	11'-7"	□
u	8	#6	12'-2"	U
v	8	#4	5'-1"	—
v1	8	#4	4'-1"	—
v2	8	#4	3'-1"	—
v3	58	#4	2'-8"	—
Concrete Structures			Cu. Yd.	12.4
Concrete Encasement			Cu. Yd.	1.4
Reinforcement Bars			Pound	1,390
Steel Piles HP12x53			Foot	140

**EAST ABUTMENT
STRUCTURE NO. 041-3738**

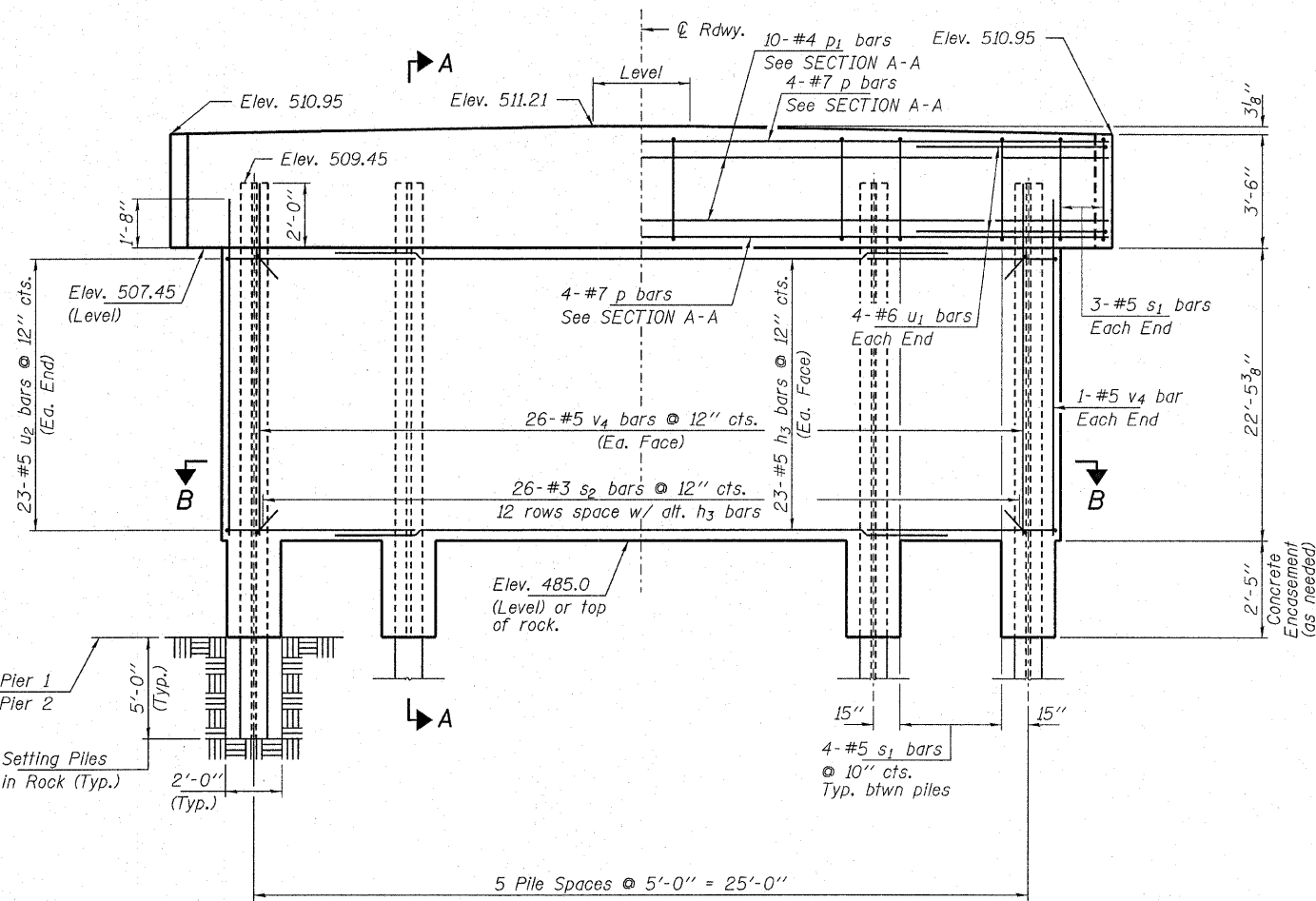
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 08 0126.130 DATE: 12/16/08

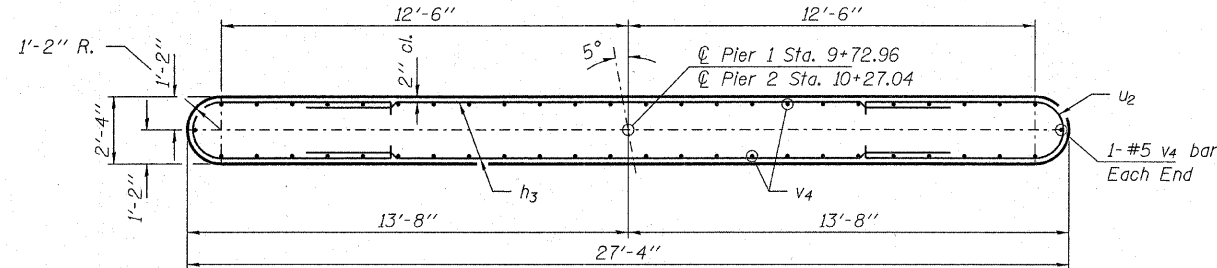
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131	07-06121-00-BR	JEFFERSON	30	27
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



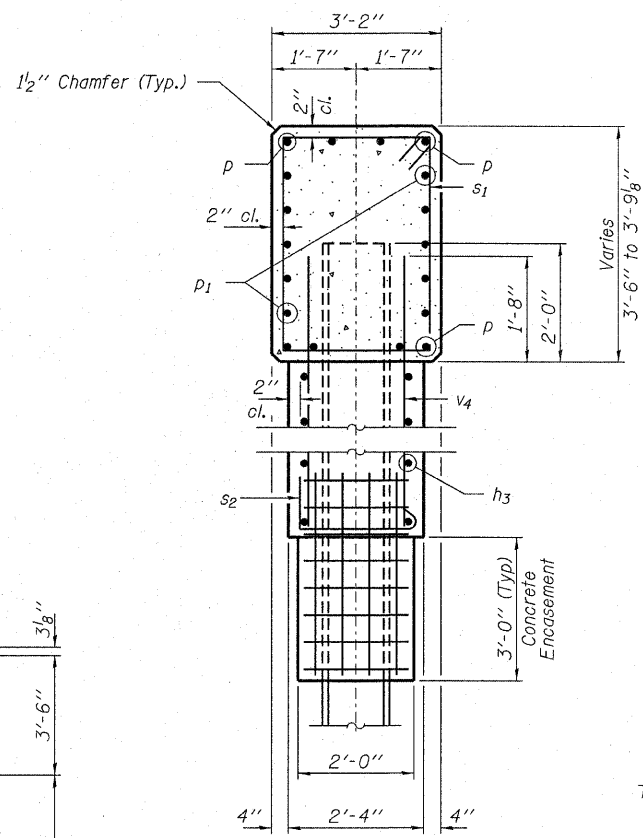
PLAN



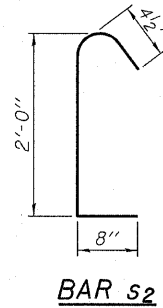
ELEVATION
(Looking East)



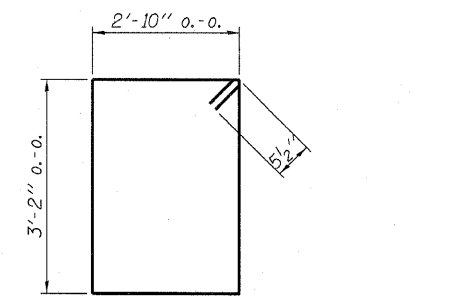
SECTION B-B



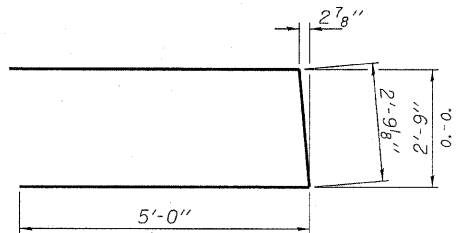
SECTION A-A



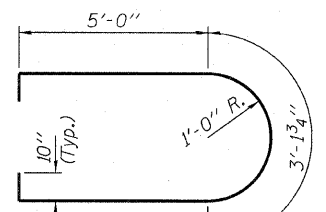
BAR s2



BAR s1



BAR u1



BAR u2

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

PILE DATA

Type.....Steel HP12x53
 No. Req'd. (2 Piers).....12
 Factored Resistance Available (RF).....209 Kips/Pile
 Nominal Required Bearing (Rn).....419 Kips/Pile
 Est. Length.....32 Ft/Pile - Pier 1
 30 Ft/Pile - Pier 2

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

BILL OF MATERIAL - 2 PIERS

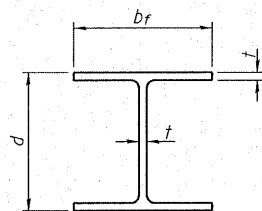
BAR	NO.	SIZE	LENGTH	SHAPE
h3	92	#5	18'-4"	—
p	16	#7	28'-4"	—
p1	20	#4	28'-4"	—
s1	52	#5	12'-11"	□
s2	312	#3	3'-1"	└
u1	16	#6	12'-10"	U
u2	92	#5	14'-10"	U
v4	108	#5	24'-2"	—
Concrete Structures			Cu. Yd.	127.4
Reinforcement Bars			Pound	8,940
Steel Piles HP12x53			Foot	372
Concrete Encasement			Cu. Yd.	1.6

PIERS
STRUCTURE NO. 041-3738

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

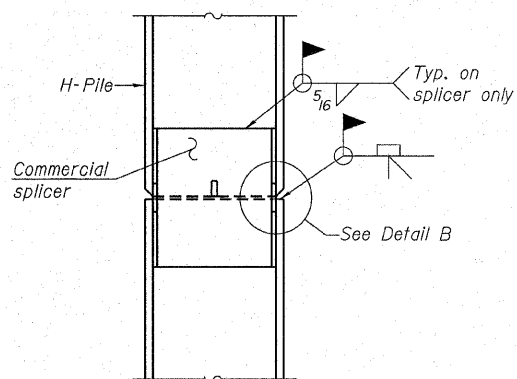
HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
HLR
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 PROJECT NUMBER: 08.0126.130 DATE: 12/16/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	28
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

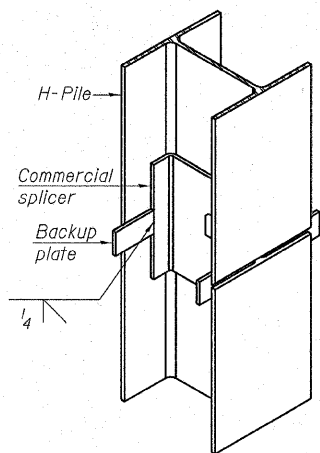


STEEL PILE TABLE

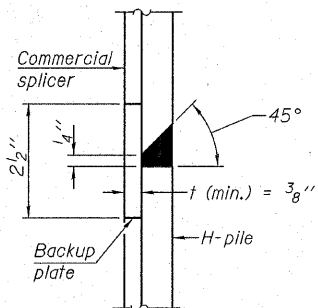
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

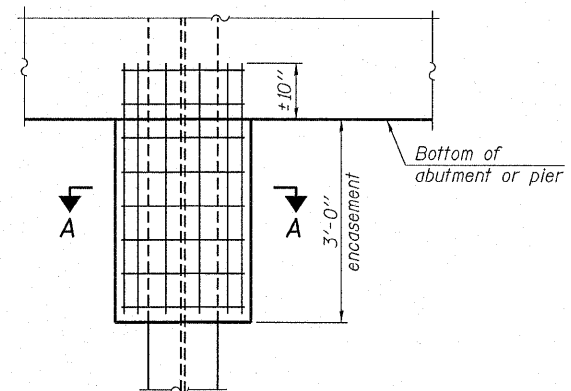


ISOMETRIC VIEW



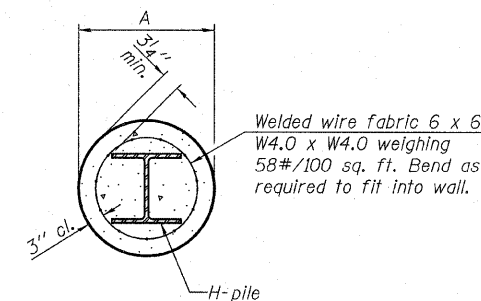
DETAIL "B"

WELDED COMMERCIAL SPLICE



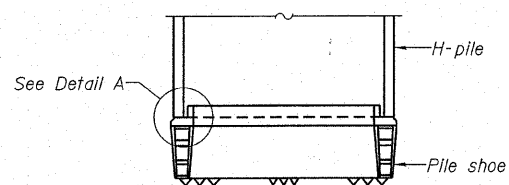
ELEVATION

PILE ENCASEMENT

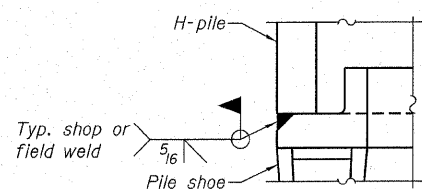


SECTION A-A

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

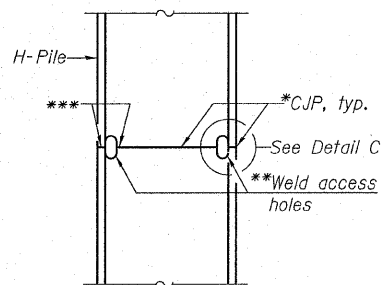


ELEVATION

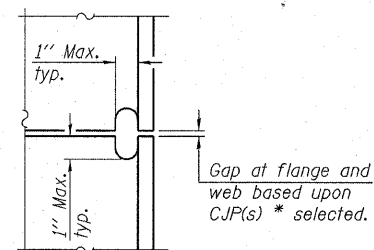


DETAIL A

H-PILE SHOE ATTACHMENT

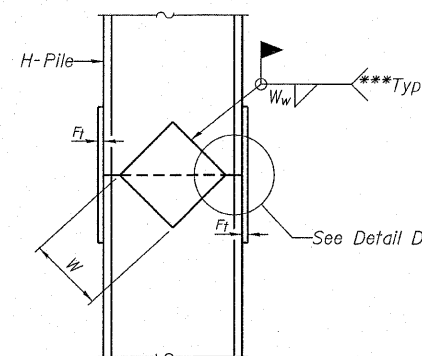


ELEVATION

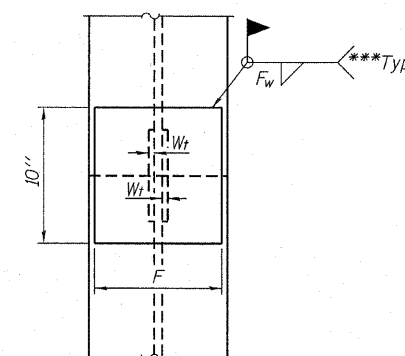


DETAIL C

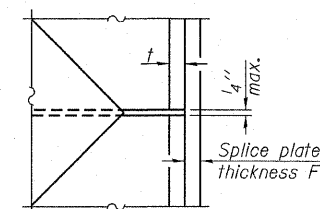
COMPLETE PENETRATION WELD SPLICE



ELEVATION



END VIEW



DETAIL D

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

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

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

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

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

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

F-HP

5-16-08

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	29
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**STEEL H PILE DETAILS
 STRUCTURE NO. 041-3738**

Bridge Foundation Boring Log

Project: H-08101 Bridge over CN/IC RR Date: 5/29/08
Section: 07-06121-00-BR Station _____ Bored by: D. Russell
Structure: _____ Checked By: T. Holcomb
County: Jefferson

Boring No. 1	Elevation	N	Qu tsf	w %	Surface Water Elev.	Elevation	N	Qu tsf	w %
Station: _____					Ground Water Elev. During Drilling 73.5				
Offset: _____					Upon Completion 75.5				
Assumed 100.0 = (509.2)									
Ground Surface 98.5	0				sandy clay (continued)				
Gray Mottled Silty CLAY (A-6) with sand (507.7)									
	5	2.0S	22				33	5.2S	14
	3	0.9B	26		(480.7) 71.5		100	/3"	10
					Brown Mottled Gray SHALE				
(501.2) 92.0							100	/5"	12
Brown Mottled Gray Sandy CLAY (A-6)	13	1.3S	21						
					(475.7) 66.5		100	/5"	9
	3	2.1S	20		End of Boring @ -32.0'				
	10	2.8B	20						
	9	1.9B	20						
	8	1.6S	26						
	5	1.5S	28						
	30	7.4S	11						

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING 1

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

Bridge Foundation Boring Log

Project: H-08101 Bridge over CN/IC RR Date: 5/30/08
Section: 07-06121-00-BR Station _____ Bored by: D. Russell
Structure: _____ Checked By: T. Holcomb
County: Jefferson

Boring No. 2	Elevation	N	Qu tsf	w %	Surface Water Elev.	Elevation	N	Qu tsf	w %
Station: _____					Ground Water Elev. During Drilling Dry				
Offset: _____					Upon Completion Dry				
Assumed 100.0 = (509.2)									
Ground Surface 98.9	0				weathered shale (continued)				
Gray Mottled Silty CLAY (A-6) with sand (508.1)									
	4	1.1S	26				59	4.0S	12
	3	1.2S	22				45	3.3S	15
	8	1.3S	22				100	/6"	10
					(477.1) 67.9		100	/6"	9
	6	1.5S	21		Gray Mottled Brown Sandy SHALE				
	9	1.7S	19		(473.1) 63.9		100	/6"	10
					End of Boring @ -35.0'				
	8	1.7S	24						
	8	0.9S	16						
	10	1.0S	23						
	50	3.7S	12						

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING 2

BORINGS
STRUCTURE NO. 041-3738

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR 3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 08.0128.130 DATE: 12/16/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131	07-06121-00-BR	JEFFERSON	30	30
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99350		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				