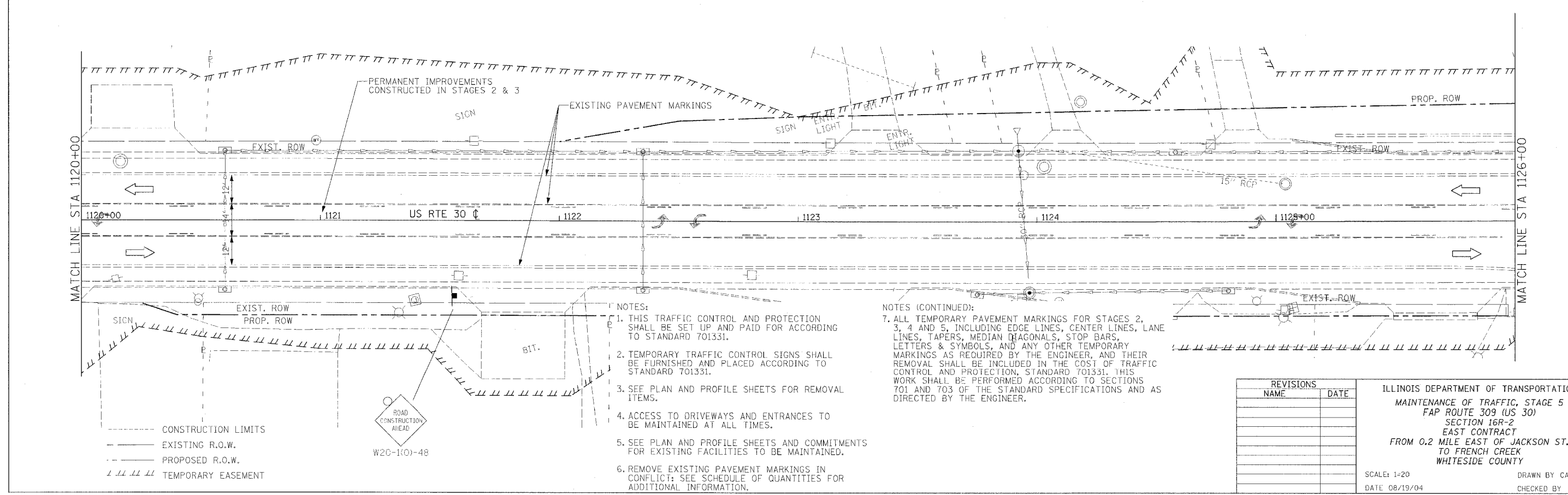
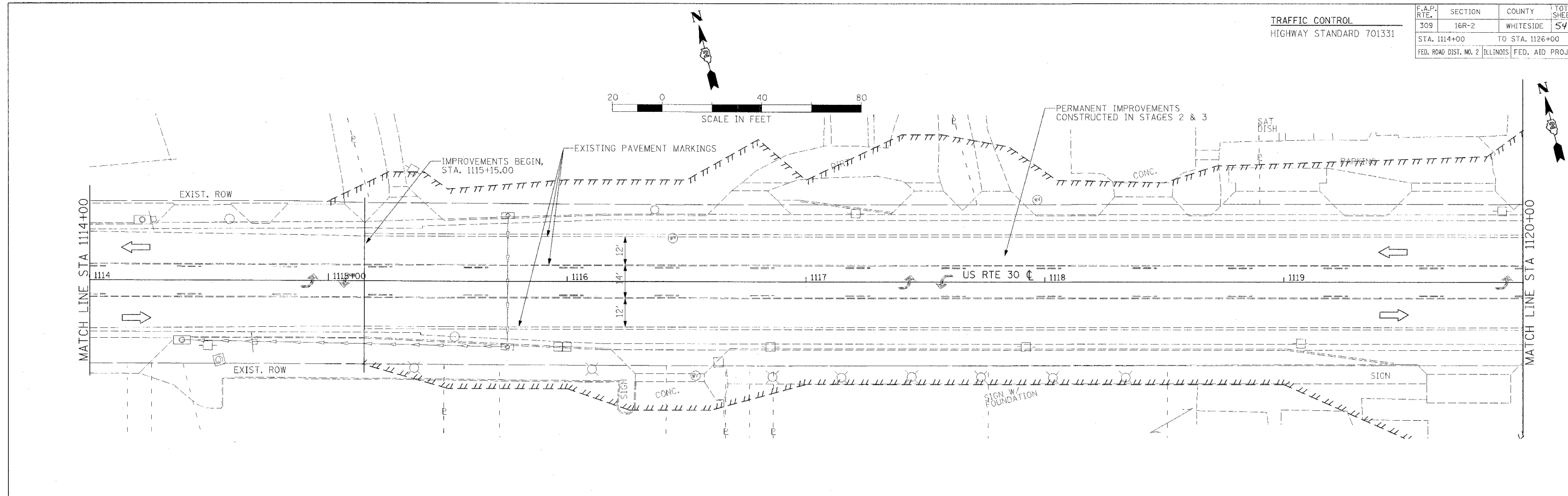


TRAFFIC CONTROL
HIGHWAY STANDARD 701331

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	101
STA. 1114+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		



- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701331.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701331.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
 4. ACCESS TO DRIVEWAYS AND ENTRANCES TO BE MAINTAINED AT ALL TIMES.
 5. SEE PLAN AND PROFILE SHEETS AND COMMITMENTS FOR EXISTING FACILITIES TO BE MAINTAINED.
 6. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT; SEE SCHEDULE OF QUANTITIES FOR ADDITIONAL INFORMATION.

- NOTES (CONTINUED):
7. ALL TEMPORARY PAVEMENT MARKINGS FOR STAGES 2, 3, 4 AND 5, INCLUDING EDGE LINES, CENTER LINES, LANE LINES, TAPERS, MEDIAN HAGONALS, STOP BARS, LETTERS & SYMBOLS, AND ANY OTHER TEMPORARY MARKINGS AS REQUIRED BY THE ENGINEER, AND THEIR REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331. THIS WORK SHALL BE PERFORMED ACCORDING TO SECTIONS 701 AND 703 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

--- CONSTRUCTION LIMITS
 - - - EXISTING R.O.W.
 - - - PROPOSED R.O.W.
 / / / / / TEMPORARY EASEMENT



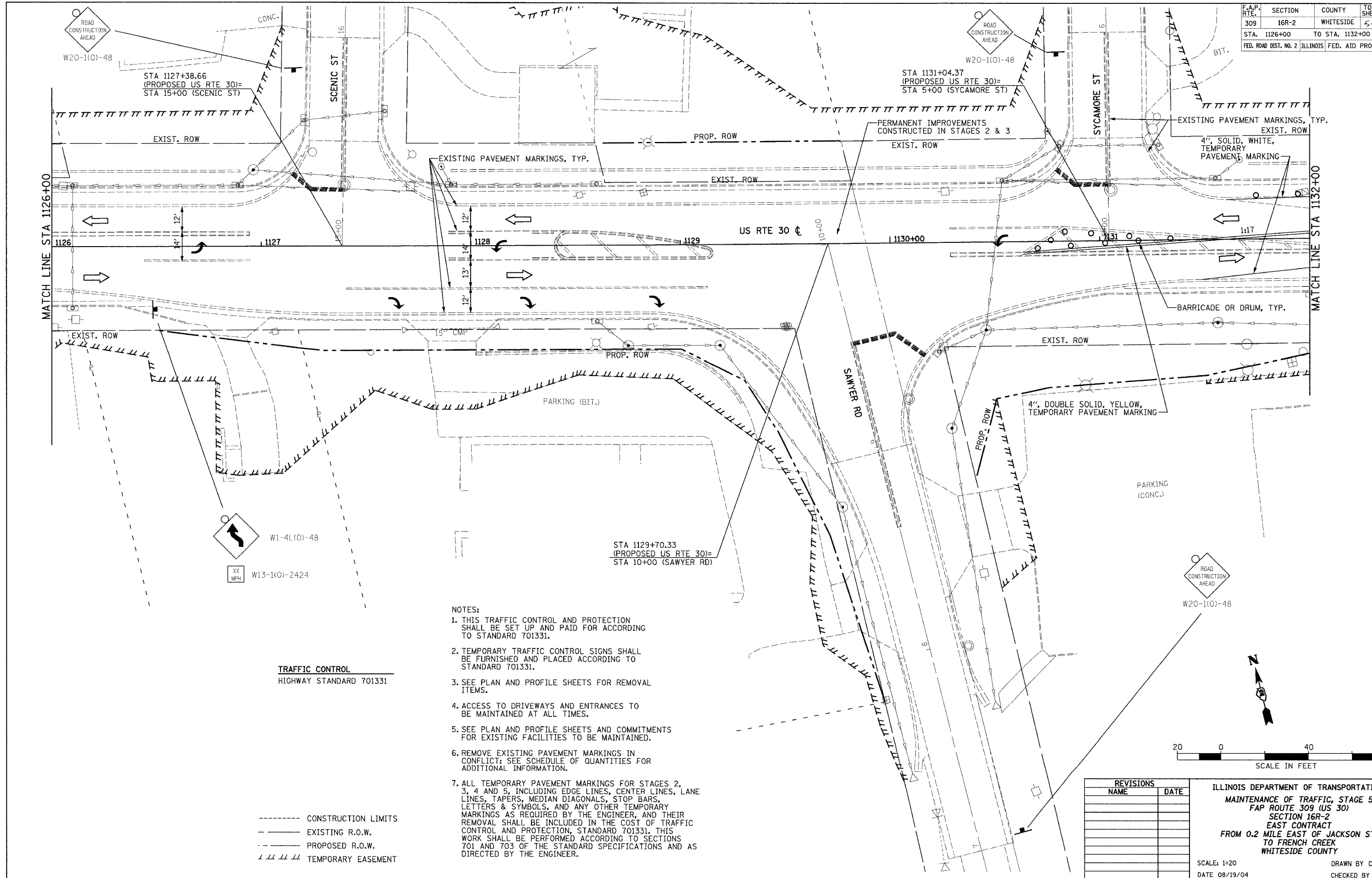
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04

DRAWN BY CAM
 CHECKED BY ROY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	162
STA. 1126+00		TO STA. 1132+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		



- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701331.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701331.
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TRAFFIC CONTROL
HIGHWAY STANDARD 701331

- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- ||||| TEMPORARY EASEMENT

REVISIONS	
NAME	DATE

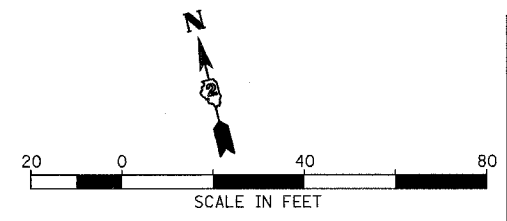
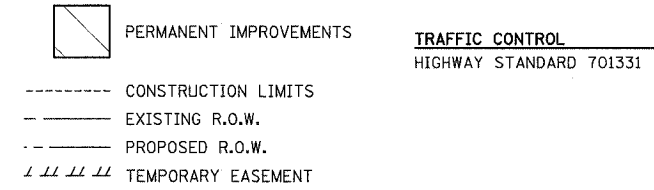
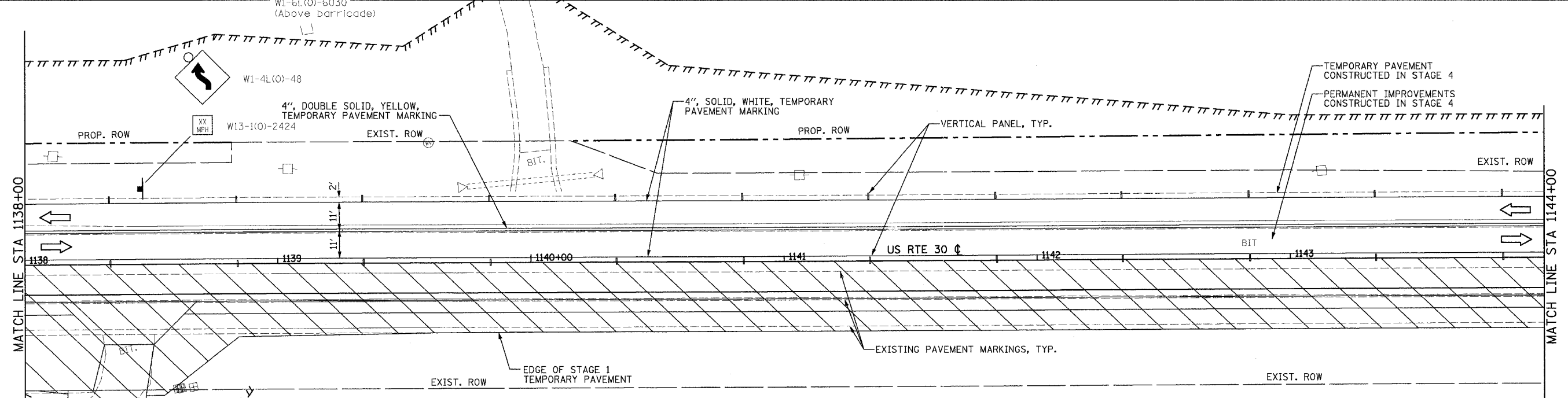
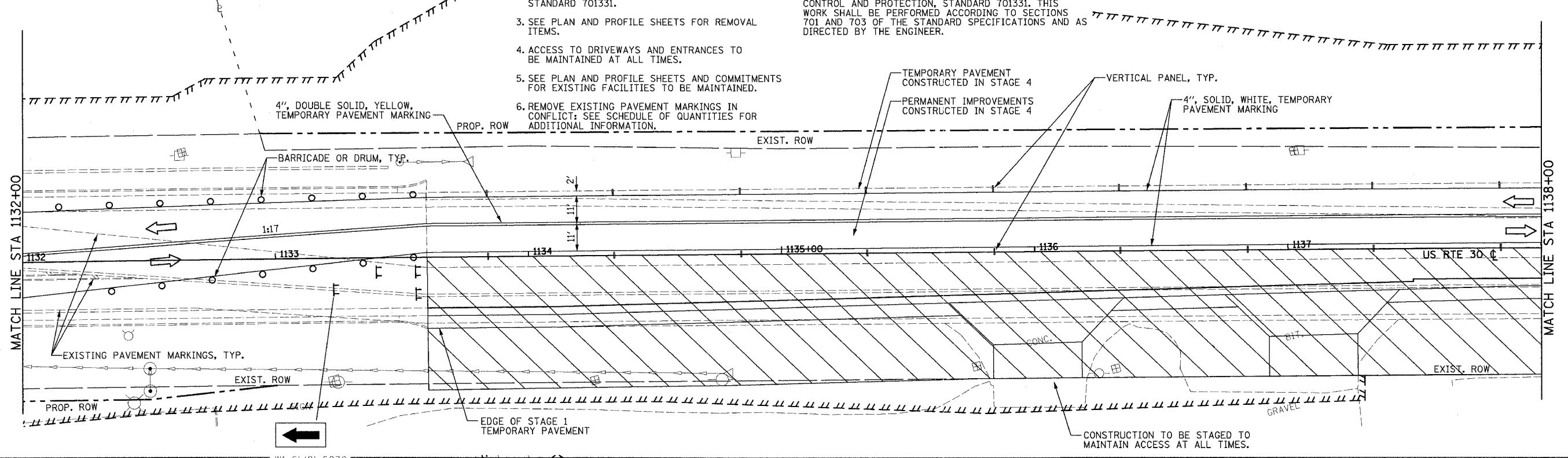
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04
 DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	103
STA. 1132+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701331.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701331.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
 4. ACCESS TO DRIVEWAYS AND ENTRANCES TO BE MAINTAINED AT ALL TIMES.
 5. SEE PLAN AND PROFILE SHEETS AND COMMITMENTS FOR EXISTING FACILITIES TO BE MAINTAINED.
 6. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT: SEE SCHEDULE OF QUANTITIES FOR ADDITIONAL INFORMATION.

- NOTES (CONTINUED):
7. ALL TEMPORARY PAVEMENT MARKINGS FOR STAGES 2, 3, 4 AND 5, INCLUDING EDGE LINES, CENTER LINES, LANE LINES, TAPERS, MEDIAN DIAGONALS, STOP BARS, LETTERS & SYMBOLS, AND ANY OTHER TEMPORARY MARKINGS AS REQUIRED BY THE ENGINEER, AND THEIR REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331. THIS WORK SHALL BE PERFORMED ACCORDING TO SECTIONS 701 AND 703 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.



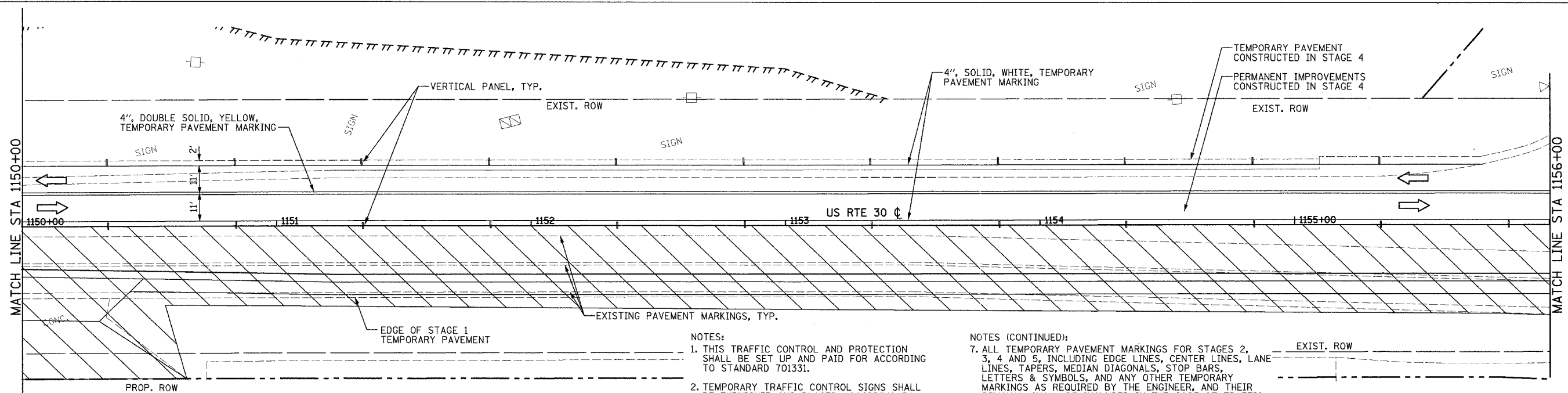
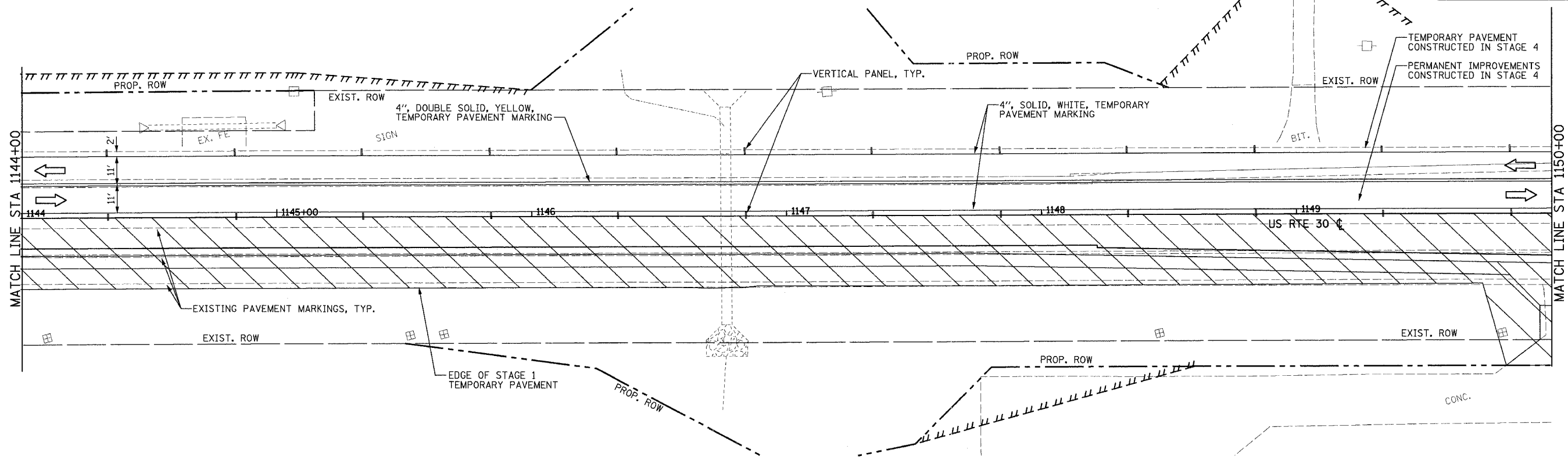
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04
 DRAWN BY CAM
 CHECKED BY RDY

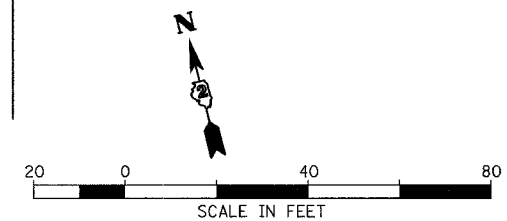
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	104
STA. 1144+00		TO STA. 1156+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL
HIGHWAY STANDARD 701331



- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701331.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701331.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
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- PERMANENT IMPROVEMENTS
- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMPORARY EASEMENT

REVISIONS	
NAME	DATE

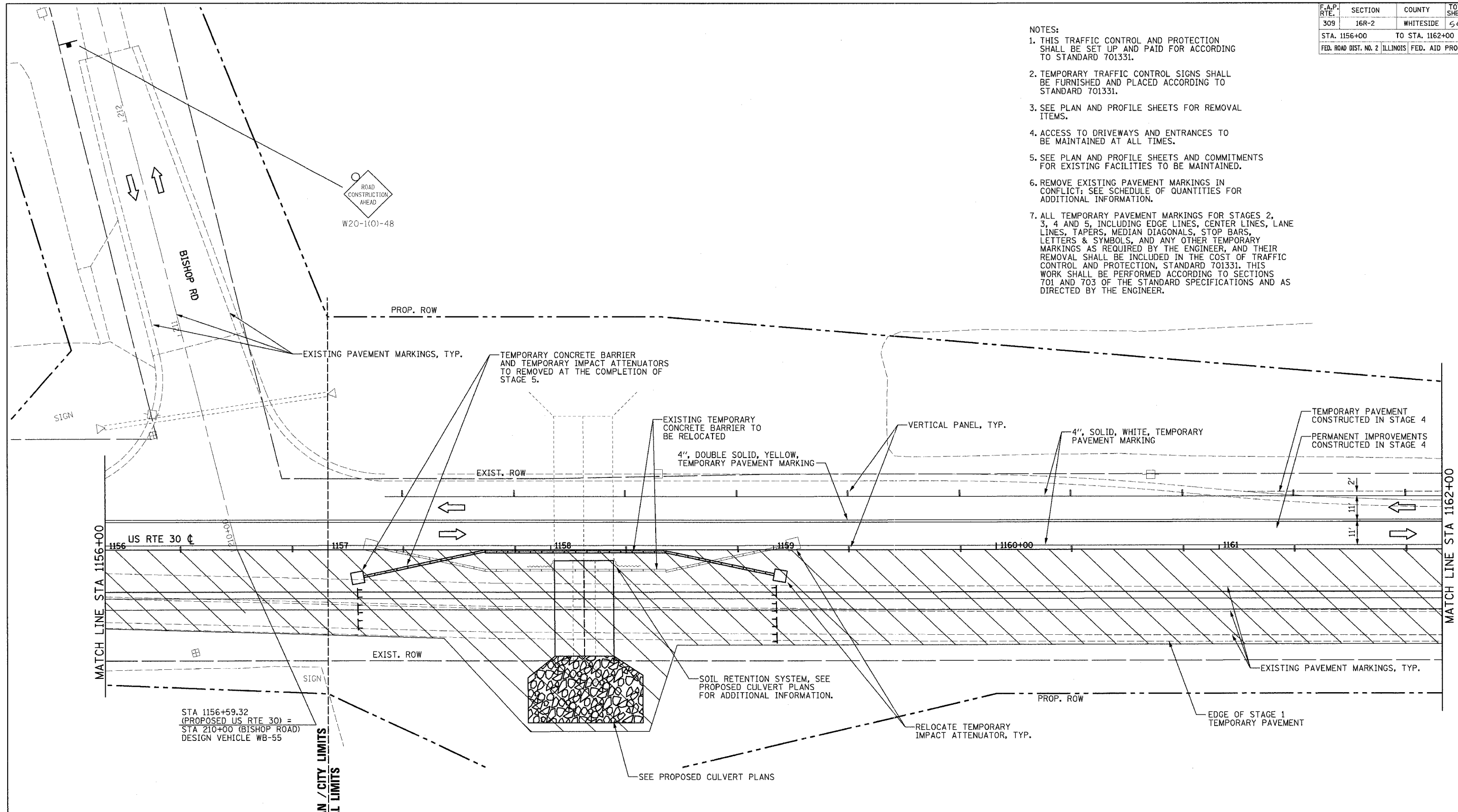
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
DATE 08/19/04

DRAWN BY CAM
CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	106
STA. 1156+00		TO STA. 1162+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701331.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701331.
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



MATCH LINE STA 1156+00

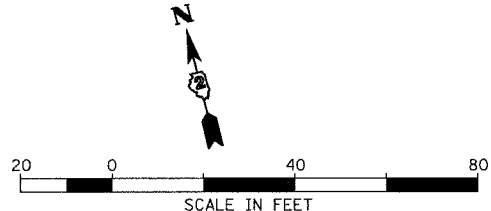
MATCH LINE STA 1162+00

STA 1156+59.32
(PROPOSED US RTE 30) =
STA 210+00 (BISHOP ROAD)
DESIGN VEHICLE WB-55

URBAN / CITY LIMITS
RURAL LIMITS

TRAFFIC CONTROL
HIGHWAY STANDARD 701331

-  PERMANENT IMPROVEMENTS
-  CONSTRUCTION LIMITS
-  EXISTING R.O.W.
-  PROPOSED R.O.W.
-  TEMPORARY EASEMENT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC, STAGE 5
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK
WHITESIDE COUNTY

SCALE: 1=20
DATE 08/19/04
DRAWN BY CAM
CHECKED BY RDY

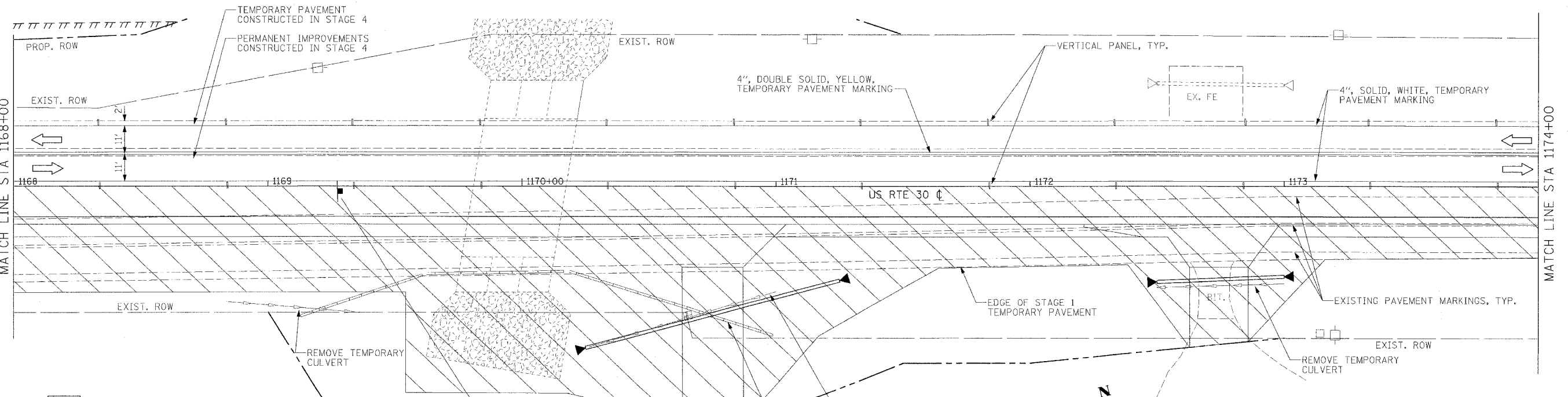
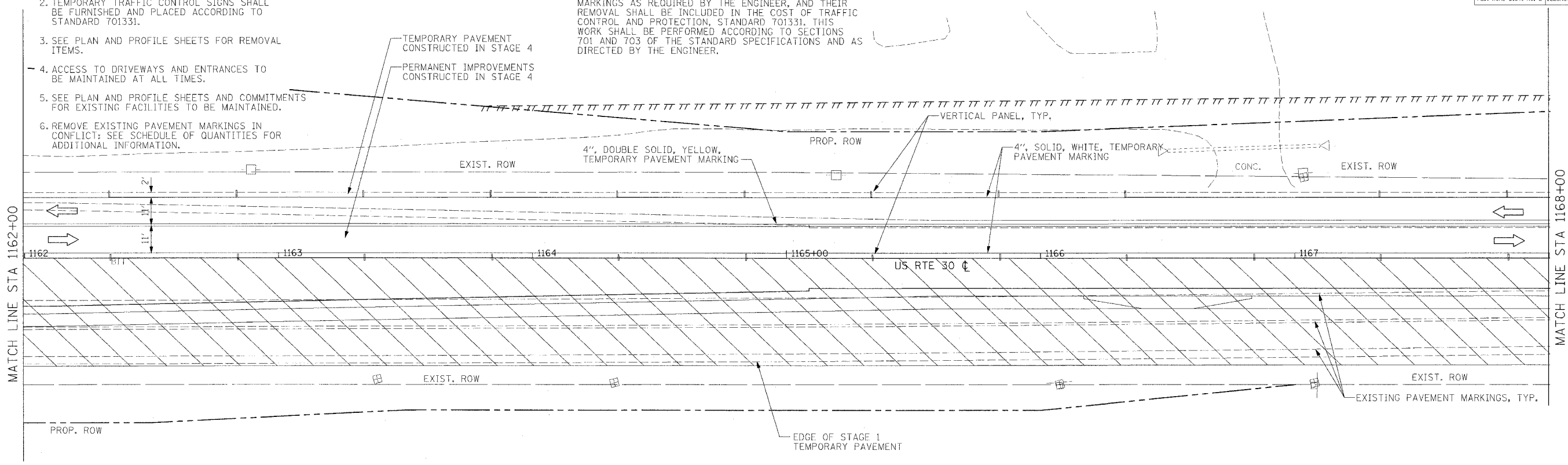
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	106
STA. 1162+00		TO STA. 1174+00		
FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT				

NOTES:

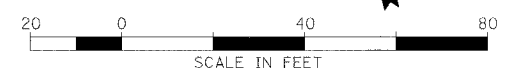
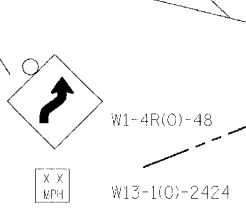
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NOTES (CONTINUED):

7. ALL TEMPORARY PAVEMENT MARKINGS FOR STAGES 2, 3, 4 AND 5, INCLUDING EDGE LINES, CENTER LINES, LANE LINES, TAPERS, MEDIAN DIAGONALS, STOP BARS, LETTERS & SYMBOLS, AND ANY OTHER TEMPORARY MARKINGS AS REQUIRED BY THE ENGINEER, AND THEIR REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331. THIS WORK SHALL BE PERFORMED ACCORDING TO SECTIONS 701 AND 703 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.



- PERMANENT IMPROVEMENTS
- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMPORARY EASEMENT
- TRAFFIC CONTROL HIGHWAY STANDARD 701331

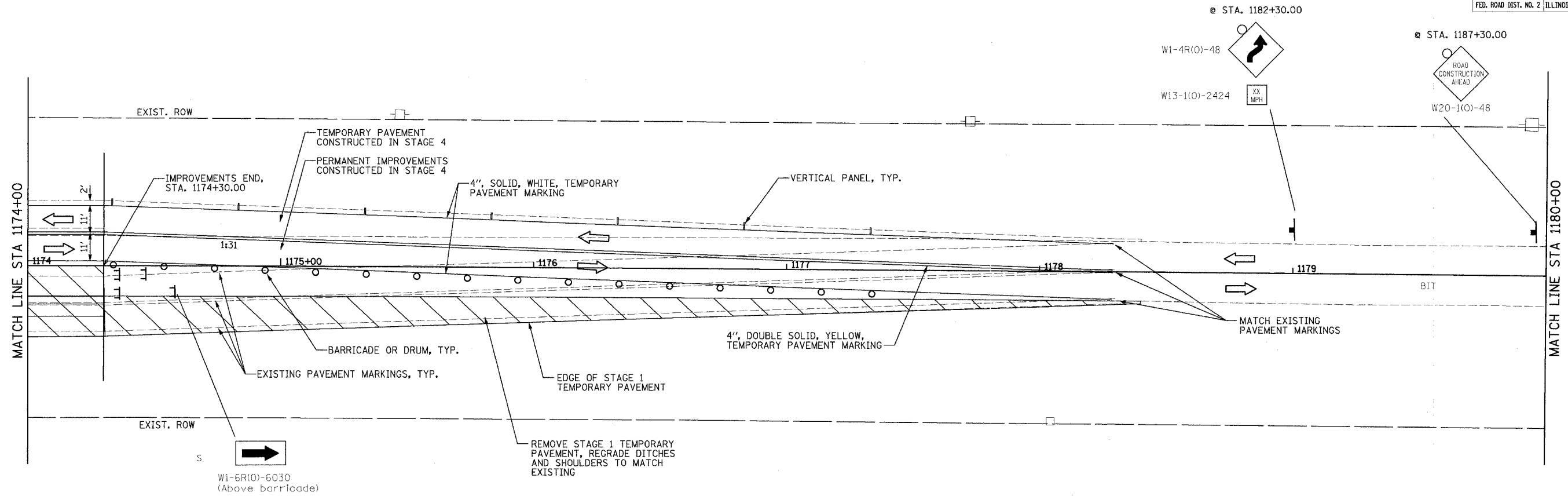


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04
 DRAWN BY CAM
 CHECKED BY RDY

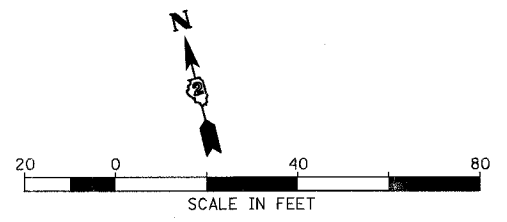
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	167
STA. 1174+00		TO STA. 1180+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



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TRAFFIC CONTROL
HIGHWAY STANDARD 701331

PERMANENT IMPROVEMENTS
 CONSTRUCTION LIMITS
 EXISTING R.O.W.
 PROPOSED R.O.W.
 TEMPORARY EASEMENT



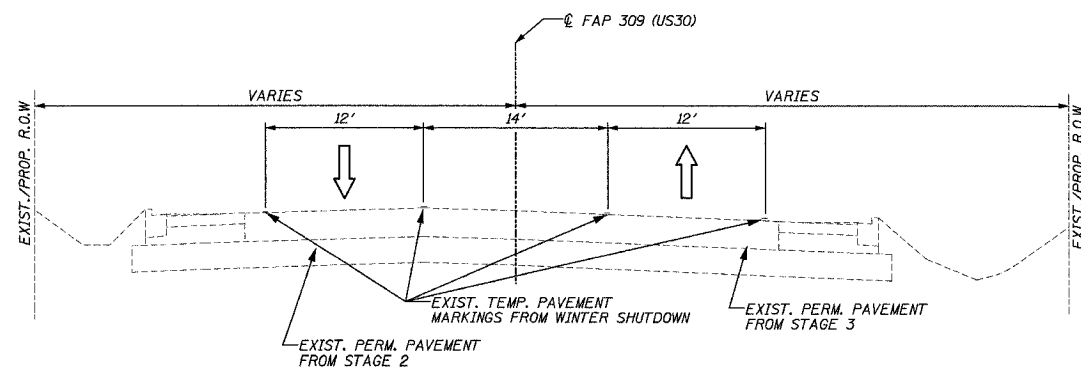
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 5
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

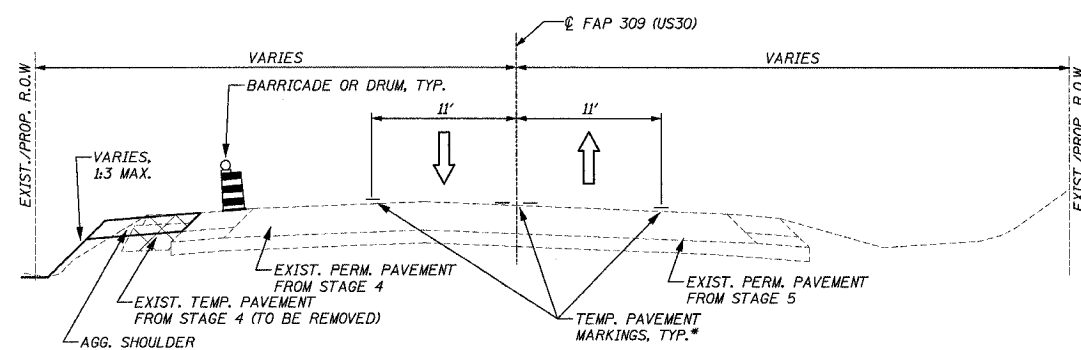
SCALE: 1=20
 DATE 08/19/04

DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	168
STA.	TO STA.			
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION NO. 1
(STA. 1114+00.00 TO STA. 1133+59.93)



TYPICAL SECTION NO. 2
(STA. 1133+59.93 TO STA. 1174+30.00)

STAGE 6

GENERAL NOTES:

ACCESS TO ENTRANCES AND LOCAL ROADS WITHIN THE PROJECT AREA WILL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE SPECIFIED IN TRAFFIC NOTES.

DRAINAGE TO EXISTING AND PROPOSED DRAINAGE STRUCTURES TO BE MAINTAINED AT ALL TIMES.

TRAFFIC NOTES:

SHIFT TRAFFIC AS SHOWN ON THE PLANS UTILIZING TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES SHOWN ON THE STAGING PLANS AND APPLICABLE TRAFFIC CONTROL STANDARDS.

MAINTAIN ONE (1) LANE OF TRAFFIC IN EACH DIRECTION WHILE MAINTAINING ACCESS TO ALL ENTRANCES AND EXITS AS SHOWN ON THE STAGING PLANS.

UTILIZE TRAFFIC CONTROL STANDARDS AS SHOWN ON THE STAGING PLANS.

WORK TO BE PERFORMED UNDER DAY TIME CLOSURES. SEE STAGING PLANS FOR APPLICABLE TRAFFIC CONTROL STANDARDS.

CONSTRUCTION/SEQUENCE OF STAGING NOTES:

PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE STAGING PLANS AND REMOVE ANY CONFLICTING EXISTING PAVEMENT MARKINGS.

REMOVE TEMPORARY PAVEMENT.

CONSTRUCT THE PERMANENT SHOULDERS AND ENTRANCES AS SHOWN ON THE STAGING PLANS.

PERFORM FINAL DITCH GRADING.

REMOVE TEMPORARY WEDGE (BITUMINOUS MIXTURE COMPLETE) ALONG THE PERMANENT GUTTER.

CONSTRUCT FINAL SURFACE COURSE ON THE ROADWAY AND SHOULDERS.

REMOVE TEMPORARY PAVEMENT MARKINGS.

INSTALL PERMANENT PAVEMENT MARKINGS.

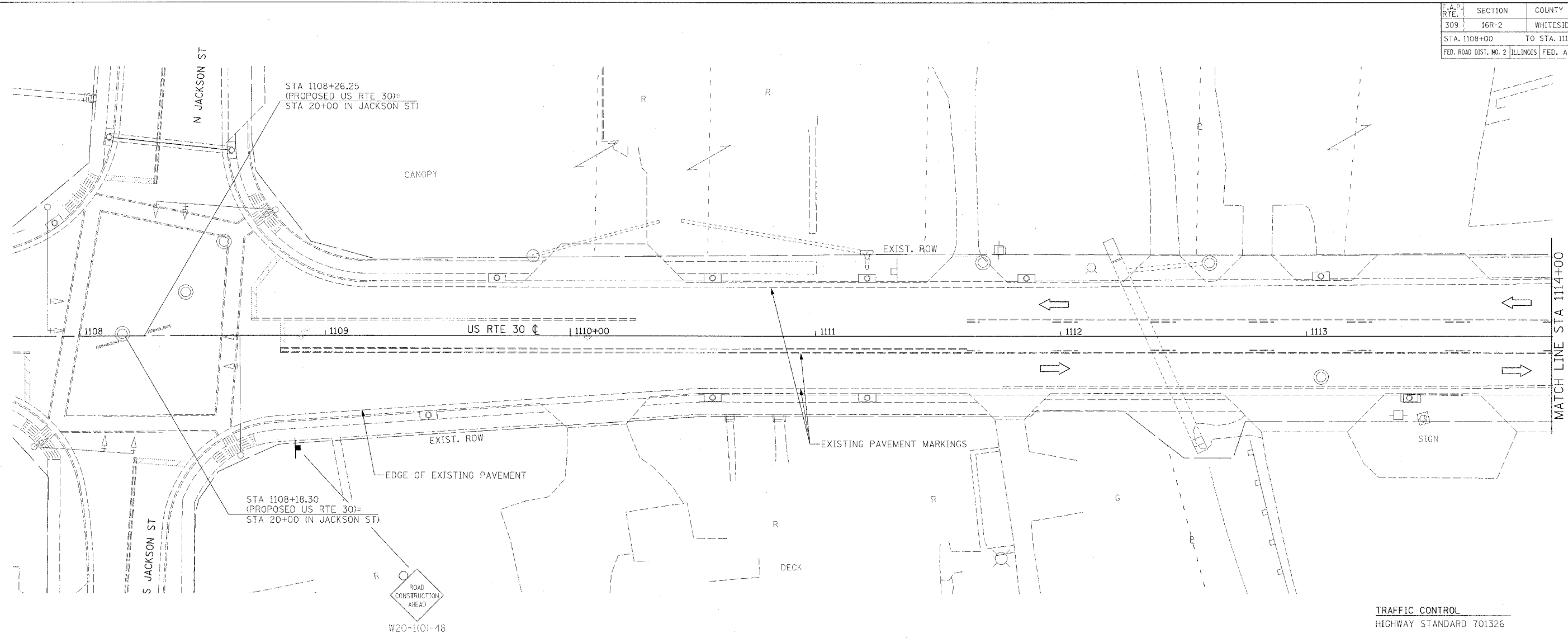
* SEE MAINTENANCE OF TRAFFIC PLANS FOR COLOR OF TEMPORARY PAVEMENT MARKINGS AND ADDITIONAL LOCATION INFORMATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC,
 TYPICAL SECTIONS, STAGE 6
 FAP ROUTE 309 (US 30), SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON
 ST. TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: N.T.S. DRAWN BY CAM
 DATE 08/19/04 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	109
STA. 1108+00		TO STA. 1114+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

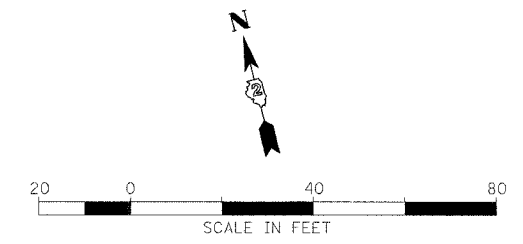


TRAFFIC CONTROL
HIGHWAY STANDARD 701326

- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- ////// TEMPORARY EASEMENT

- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701326.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
 4. ACCESS TO DRIVEWAYS AND ENTRANCES TO BE MAINTAINED AT ALL TIMES.
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MAINTENANCE OF TRAFFIC LEGEND	
	TRAFFIC FLOW DIRECTION
	LANE(S) CLOSED
	ARROW BOARD
	DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHT
	TYPE III BARRICADE
	EX TEMPORARY CONCRETE BARRIER
	PR TEMPORARY CONCRETE BARRIER
	VERTICAL PANEL
	BARRICADE TYPE I OR TYPE II OR DRUM
	SIGN
	CONSTRUCTION SPEED LIMIT SIGN
	FLAGGER WITH TRAFFIC CONTROL SIGN
	BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
	BARRICADE OR DRUM WITH FLASHING LIGHT



REVISIONS	
NAME	DATE

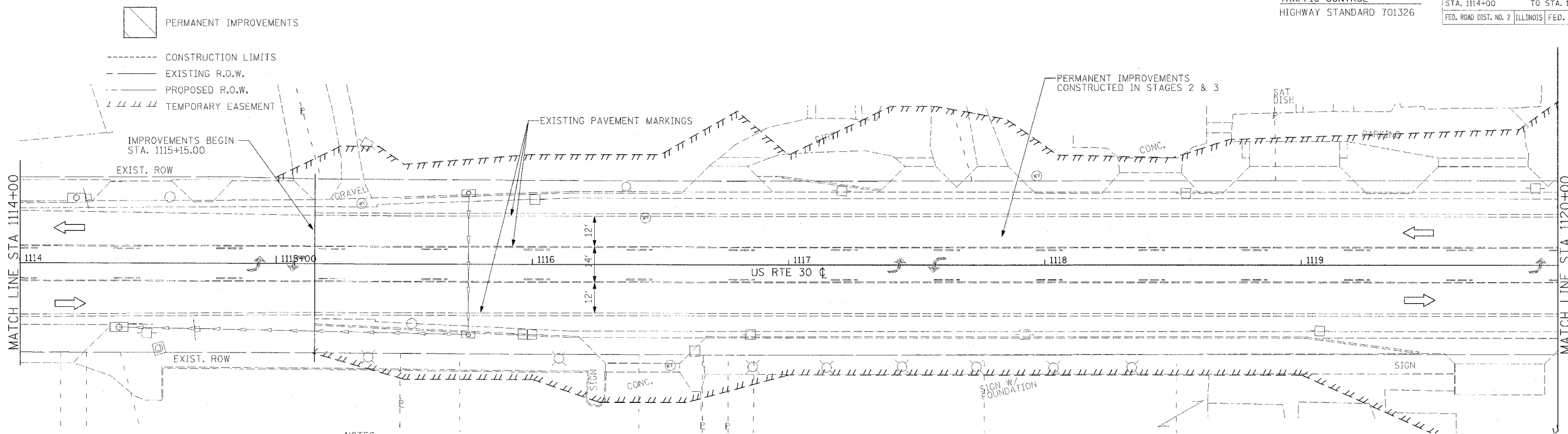
ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC, STAGE 6
FAP ROUTE 309 (US 30)
SECTION 16R-2, EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK
WHITESIDE COUNTY

SCALE: 1=20
DATE 08/19/04

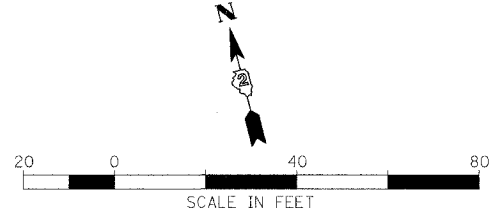
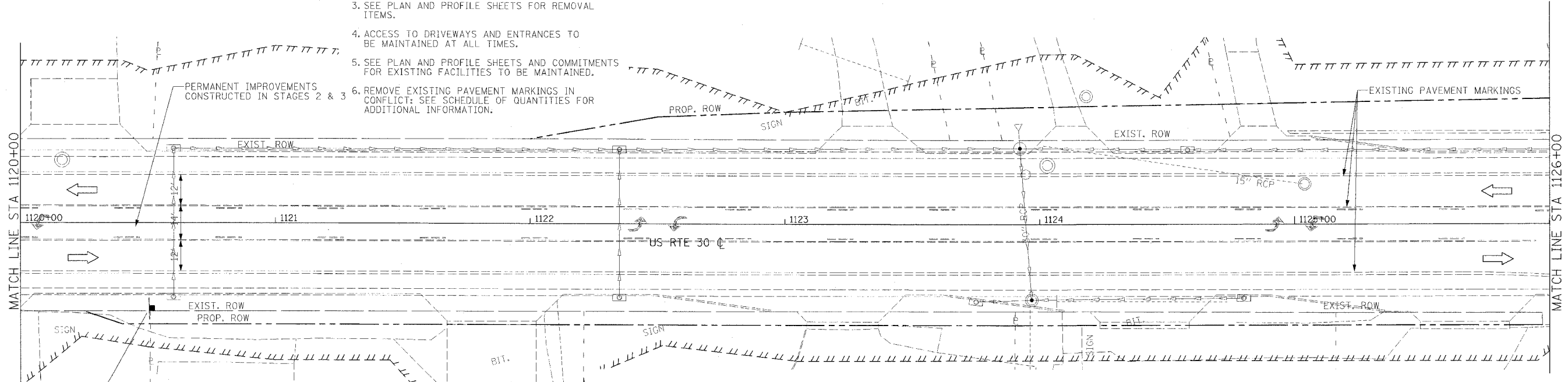
DRAWN BY CAM
CHECKED BY RDT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	517	110
STA. 1114+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL
HIGHWAY STANDARD 701326



- NOTES:
1. THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326.
 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701326.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
 4. ACCESS TO DRIVEWAYS AND ENTRANCES TO BE MAINTAINED AT ALL TIMES.
 5. SEE PLAN AND PROFILE SHEETS AND COMMITMENTS FOR EXISTING FACILITIES TO BE MAINTAINED.
 6. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT; SEE SCHEDULE OF QUANTITIES FOR ADDITIONAL INFORMATION.

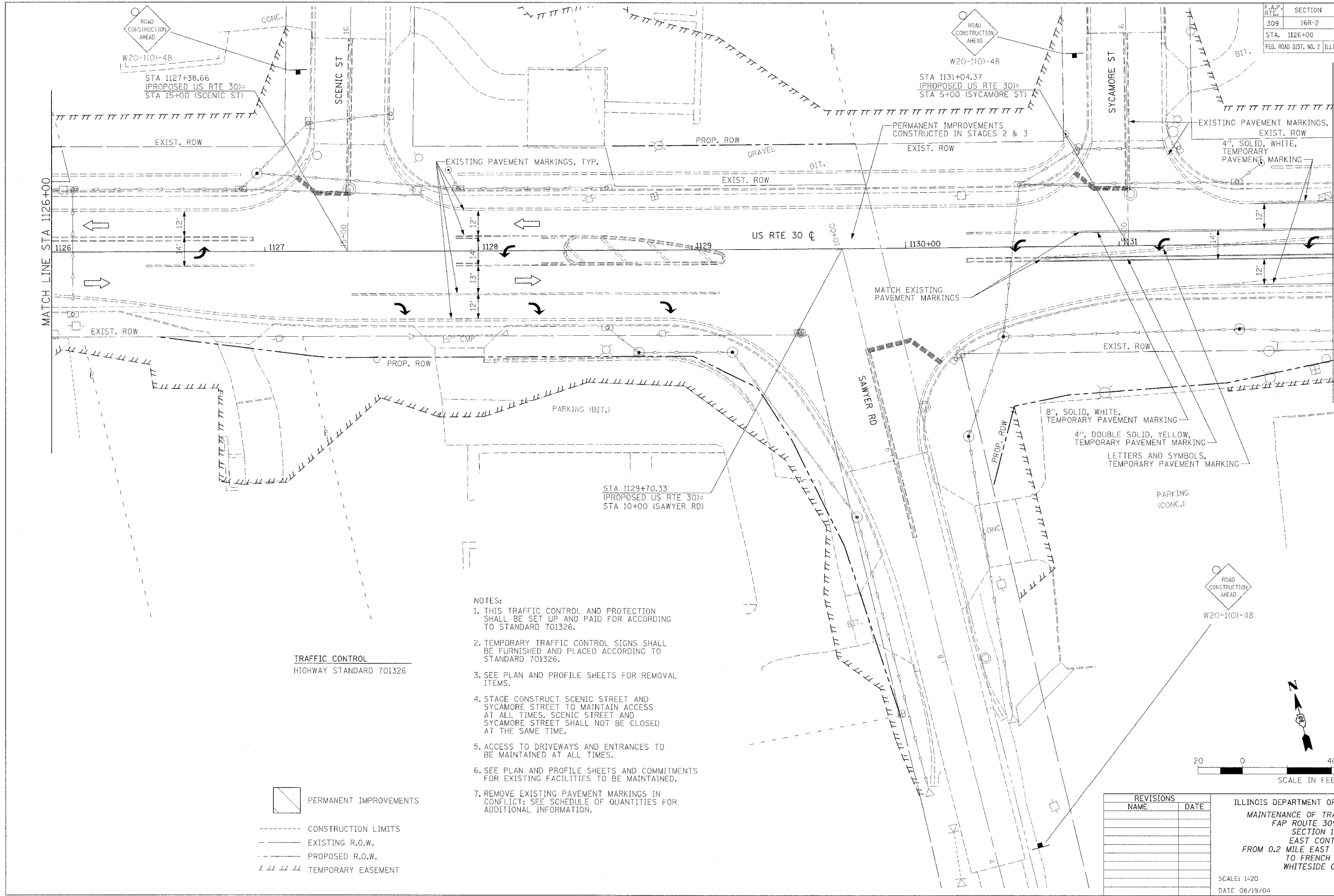


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC, STAGE 6
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK
WHITESIDE COUNTY






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DATE 08/19/04
DRAWN BY CAM
CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	111
STA. 1126+00		TO STA. 1132+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



- NOTES:
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 2. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND PLACED ACCORDING TO STANDARD 701326.
 3. SEE PLAN AND PROFILE SHEETS FOR REMOVAL ITEMS.
 4. STAGE CONSTRUCT SCENIC STREET AND SYCAMORE STREET TO MAINTAIN ACCESS AT ALL TIMES. SCENIC STREET AND SYCAMORE STREET SHALL NOT BE CLOSED AT THE SAME TIME.
 5. ACCESS TO DRIVEWAYS AND ENTRANCES TO BE MAINTAINED AT ALL TIMES.
 6. SEE PLAN AND PROFILE SHEETS AND COMMITMENTS FOR EXISTING FACILITIES TO BE MAINTAINED.
 7. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT: SEE SCHEDULE OF QUANTITIES FOR ADDITIONAL INFORMATION.

TRAFFIC CONTROL
HIGHWAY STANDARD 701326

-  PERMANENT IMPROVEMENTS
-  CONSTRUCTION LIMITS
-  EXISTING R.O.W.
-  PROPOSED R.O.W.
-  TEMPORARY EASEMENT

REVISIONS	
NAME	DATE

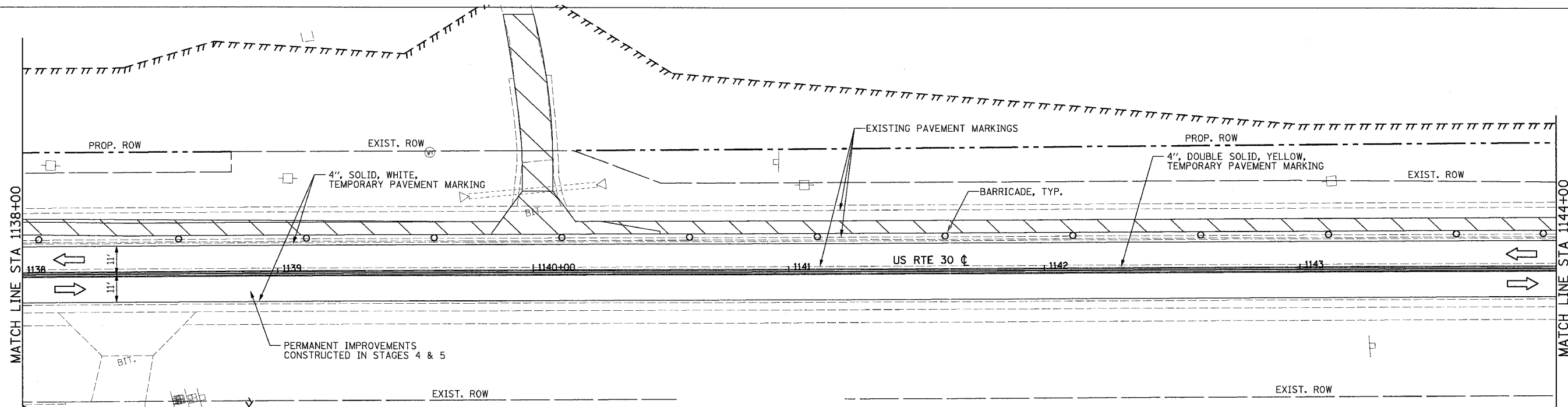
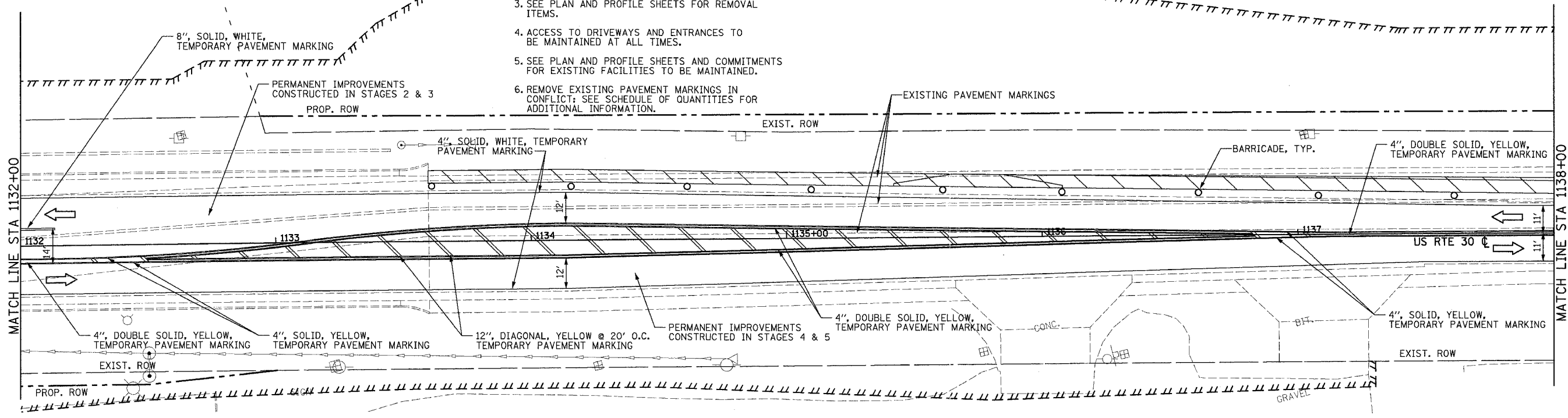
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04
 DRAWN BY CAM
 CHECKED BY RDY

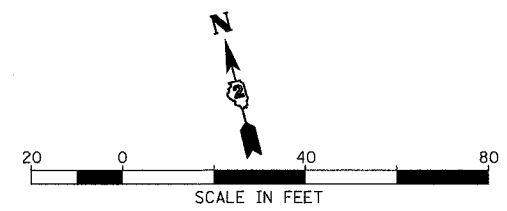
TRAFFIC CONTROL
HIGHWAY STANDARD 701326

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	112
STA. 1132+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

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- PERMANENT IMPROVEMENTS
- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMPORARY EASEMENT



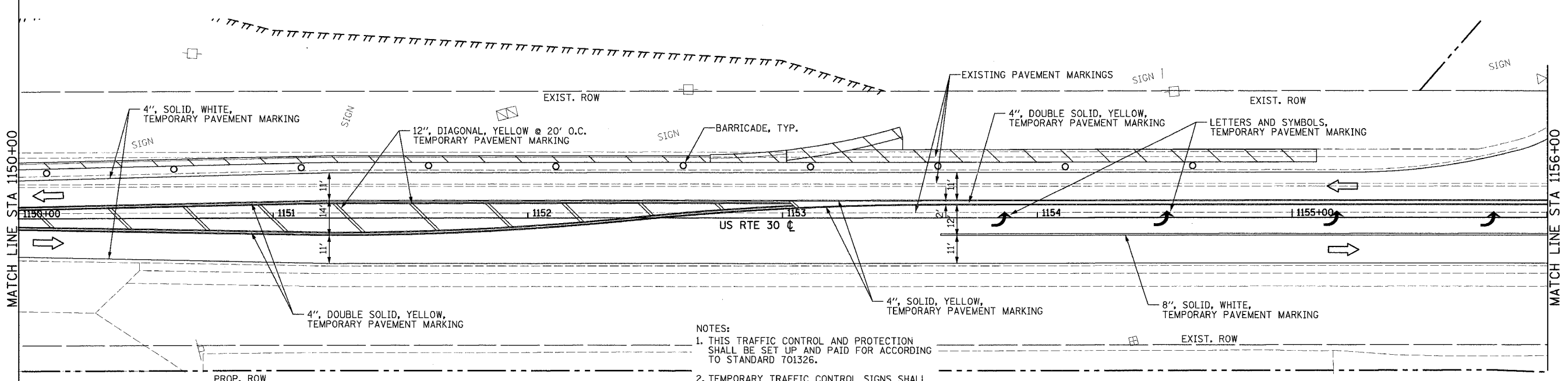
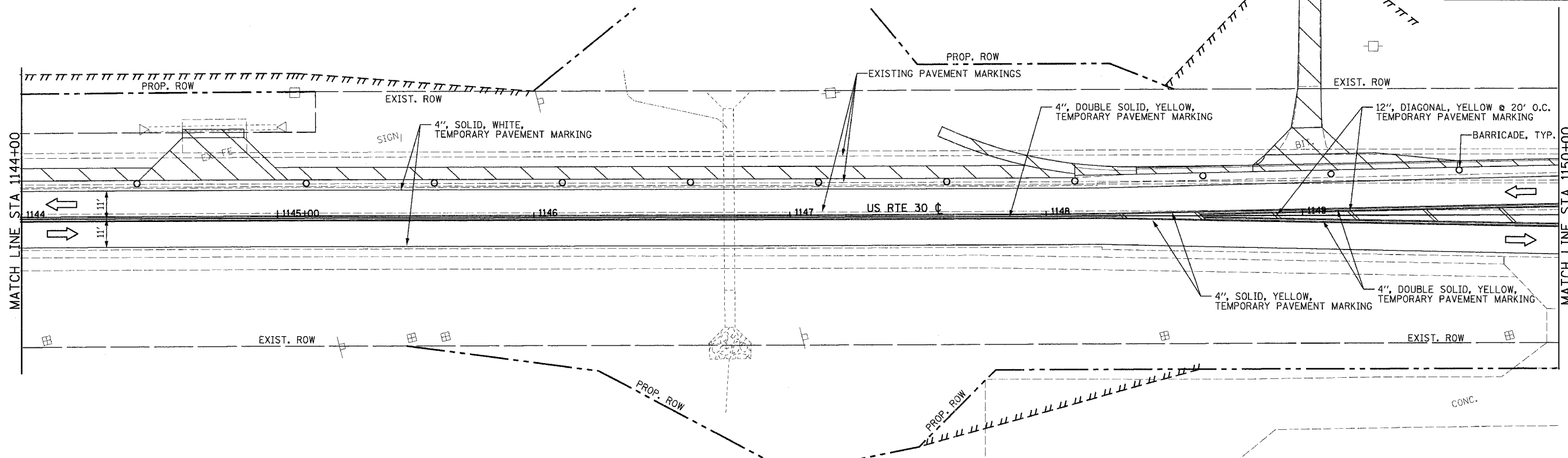
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
DATE 08/19/04

DRAWN BY CAM
CHECKED BY RDY

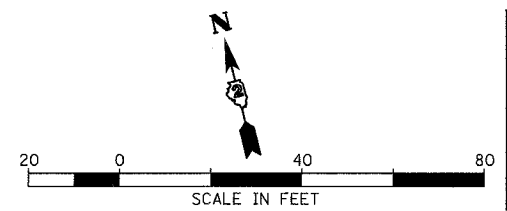
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	113
STA. 1144+00		TO STA. 1156+00		
FED. ROAD DIST. NO. 2		ILLINOIS		FED. AID PROJECT



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TRAFFIC CONTROL
HIGHWAY STANDARD 701326

- PERMANENT IMPROVEMENTS
- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMPORARY EASEMENT



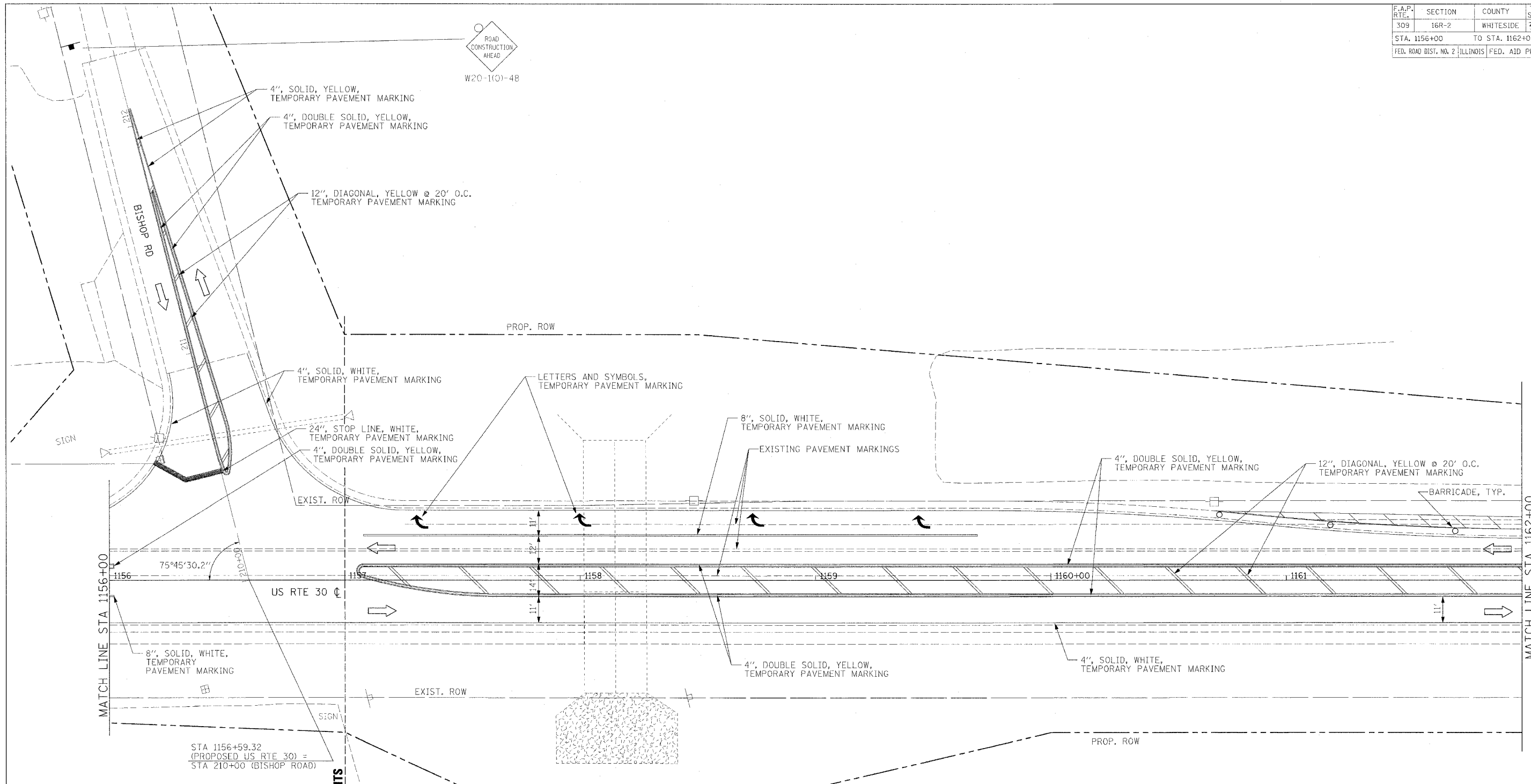
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

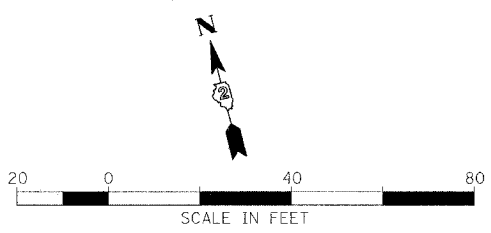
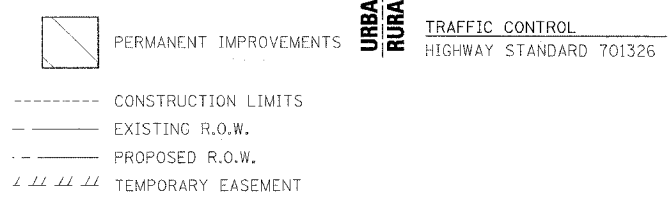
SCALE: 1=20
DATE 08/19/04

DRAWN BY CAM
CHECKED BY R0Y

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	117
STA. 1156+00		TO STA. 1162+00		
FED. ROAD DIST. NO. 2		ILLINOIS		FED. AID PROJECT



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1"=20'
 DATE 08/19/04

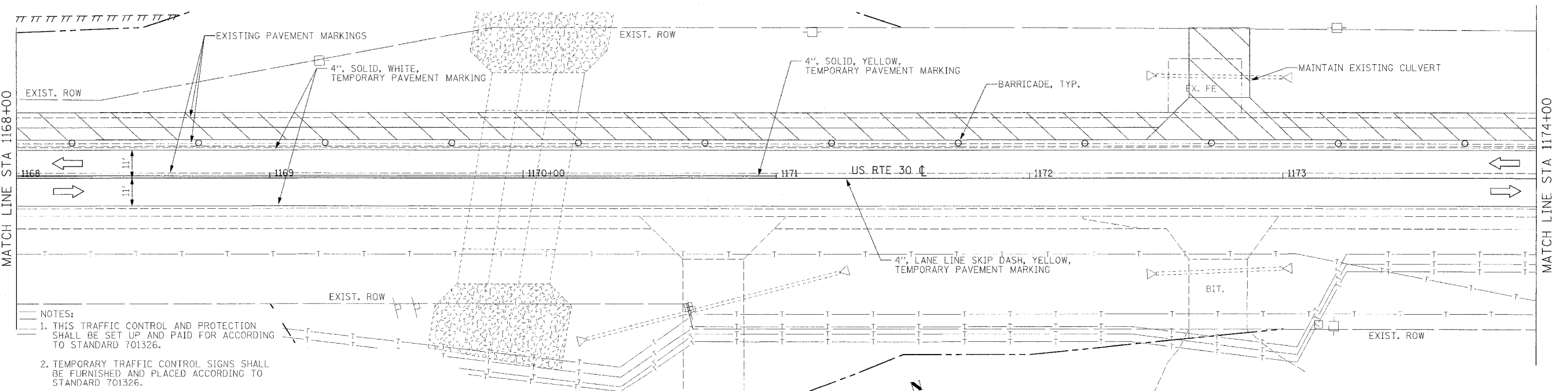
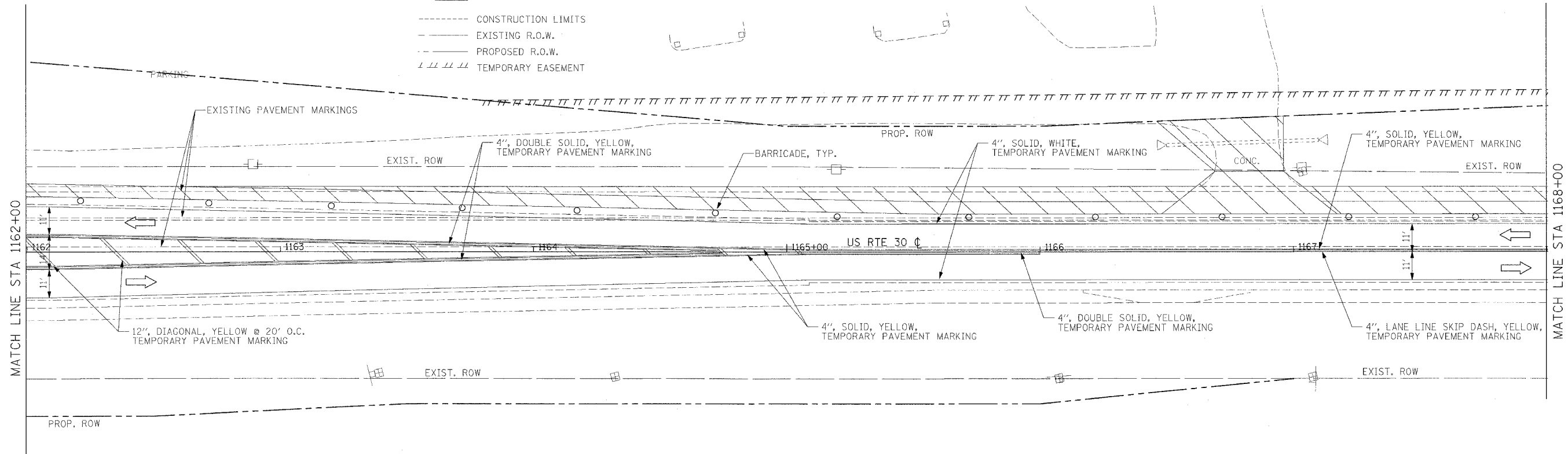
DRAWN BY CAM
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TRAFFIC CONTROL
HIGHWAY STANDARD 701326

F.A.P. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	57	115
STA. 1162+00		TO STA. 1174+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

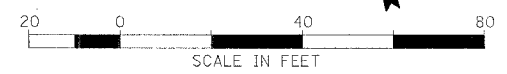
PERMANENT IMPROVEMENTS

- CONSTRUCTION LIMITS
- EXISTING R.O.W.
- PROPOSED R.O.W.
- ////// TEMPORARY EASEMENT



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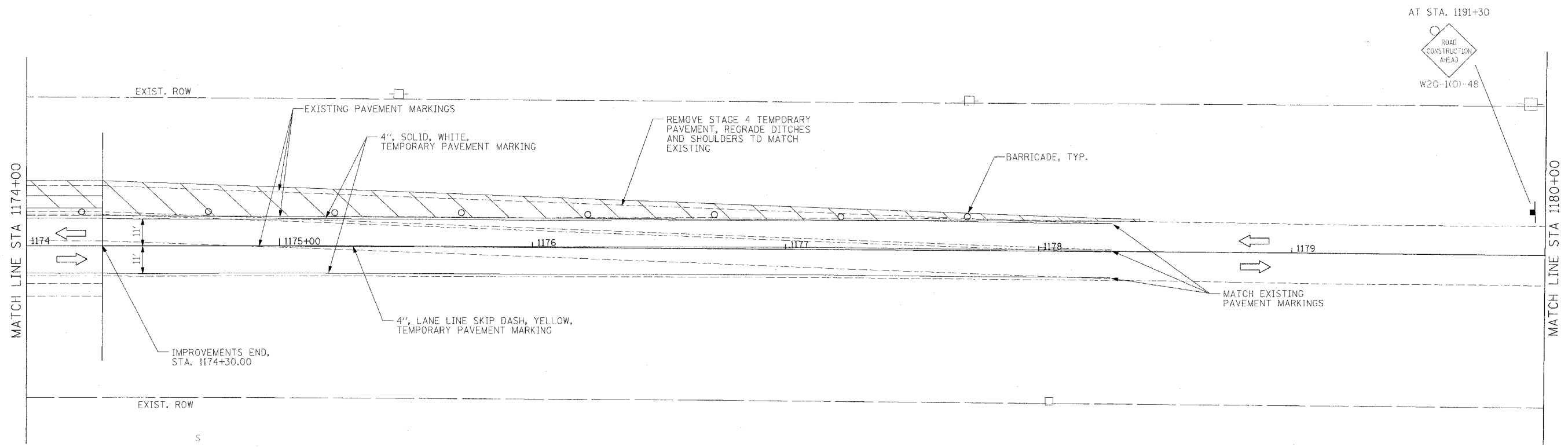
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY






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DATE 08/19/04

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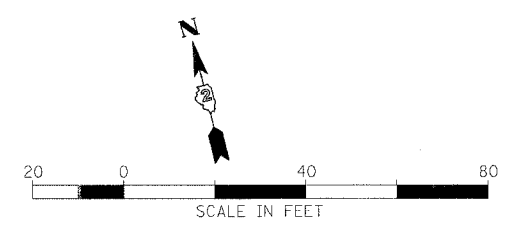
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	577	116
STA. 1174+00		TO STA. 1180+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL
HIGHWAY STANDARD 701326

-  PERMANENT IMPROVEMENTS
-  CONSTRUCTION LIMITS
-  EXISTING R.O.W.
-  PROPOSED R.O.W.
-  TEMPORARY EASEMENT

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REVISIONS	
NAME	DATE

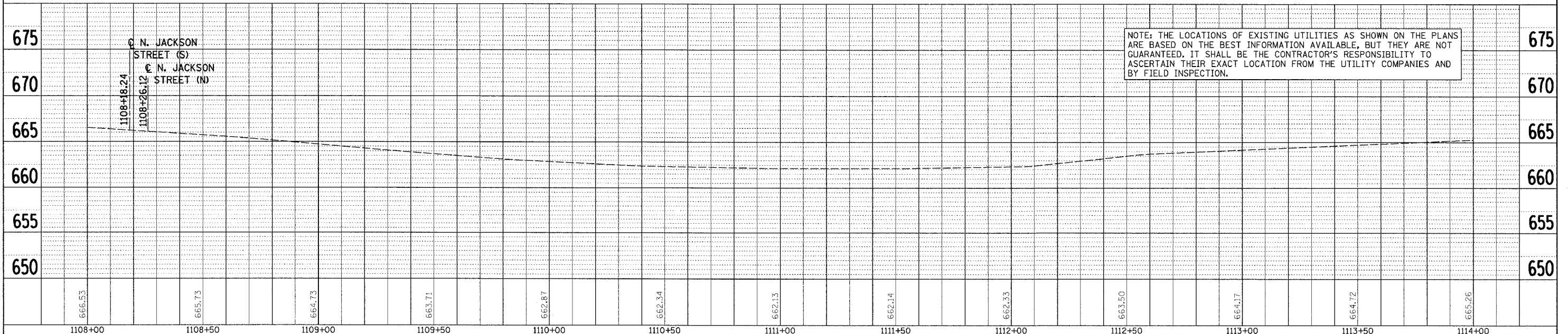
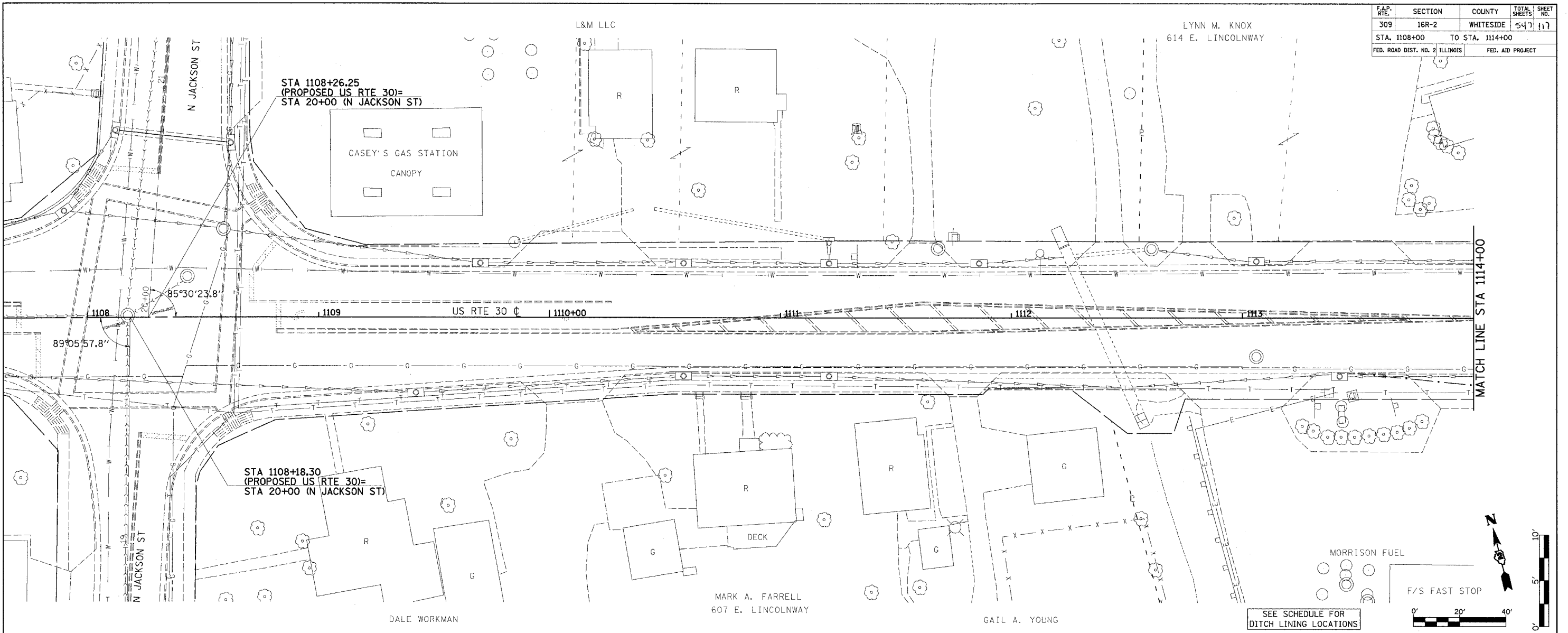
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC, STAGE 6
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE 08/19/04
 DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	117
STA. 1108+00		TO STA. 1114+00		
FED. ROAD DIST. NO. 2 ILLINOIS		FED. AID PROJECT		

PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NO.		

PROFILE	DATE	BY
SURVEYED		
GRADES CHECKED		
NO.		



DRAINAGE AND EROSION CONTROL PLANS (US RTE 30)

DATE: 12/27/2005
 REF: 117-45-88

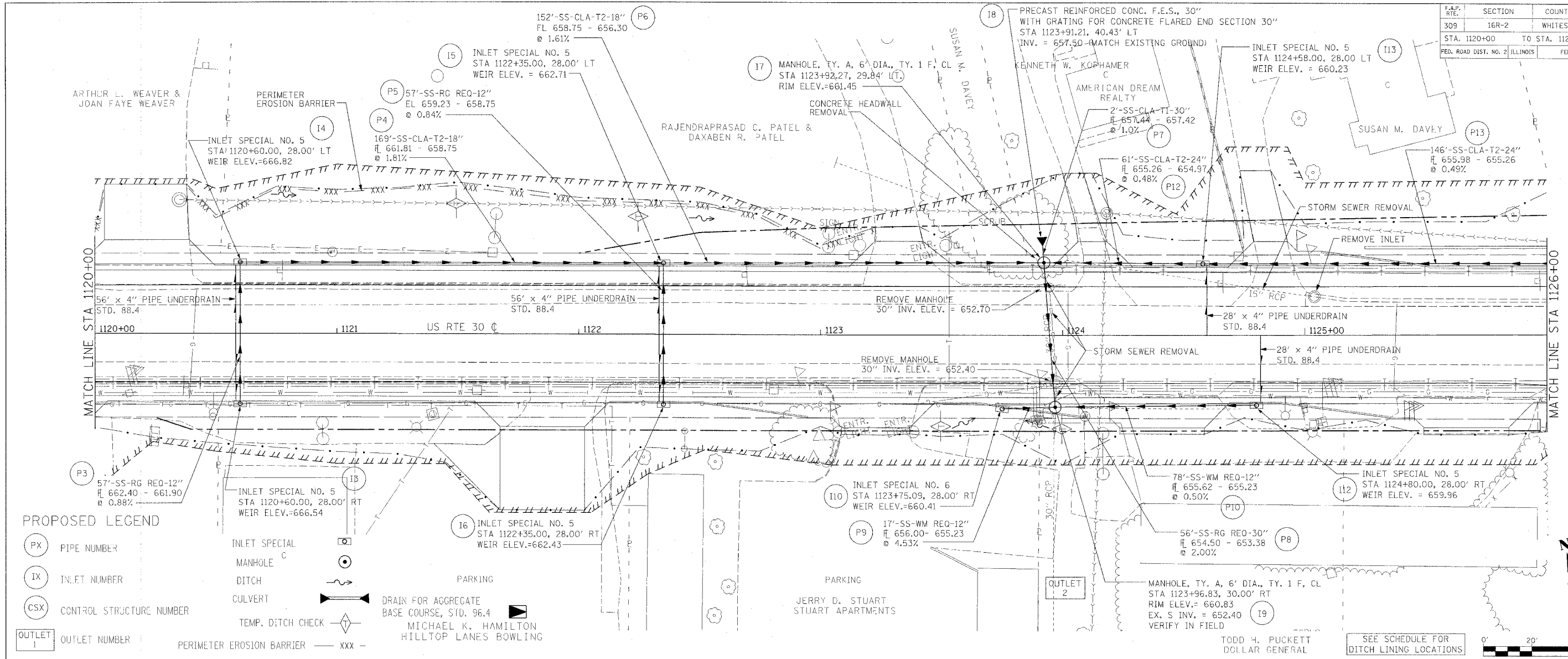
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	577	189
STA. 1120+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2 ILLINOIS		FED. AID PROJECT		

DATE	BY	REVISION

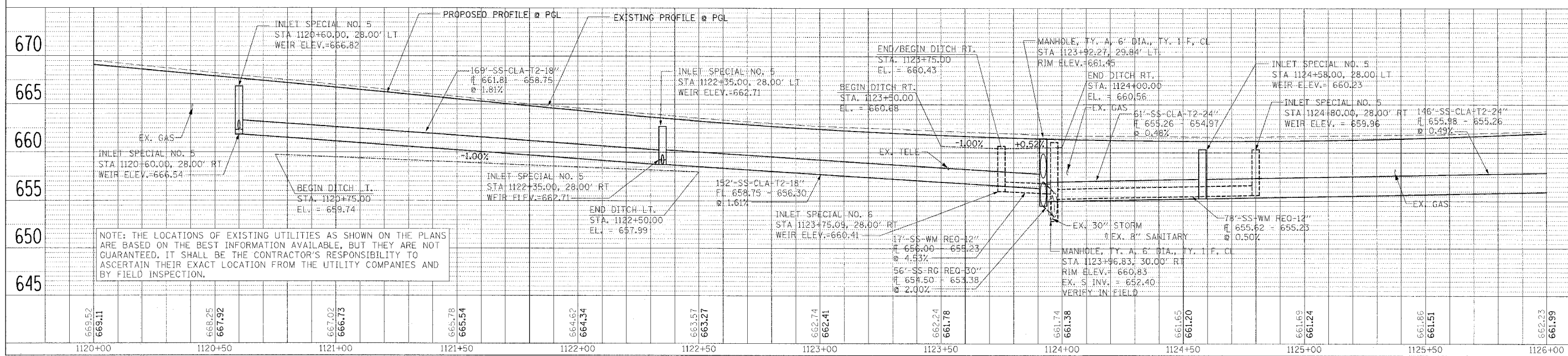
DATE	BY	REVISION

DATE	BY	REVISION



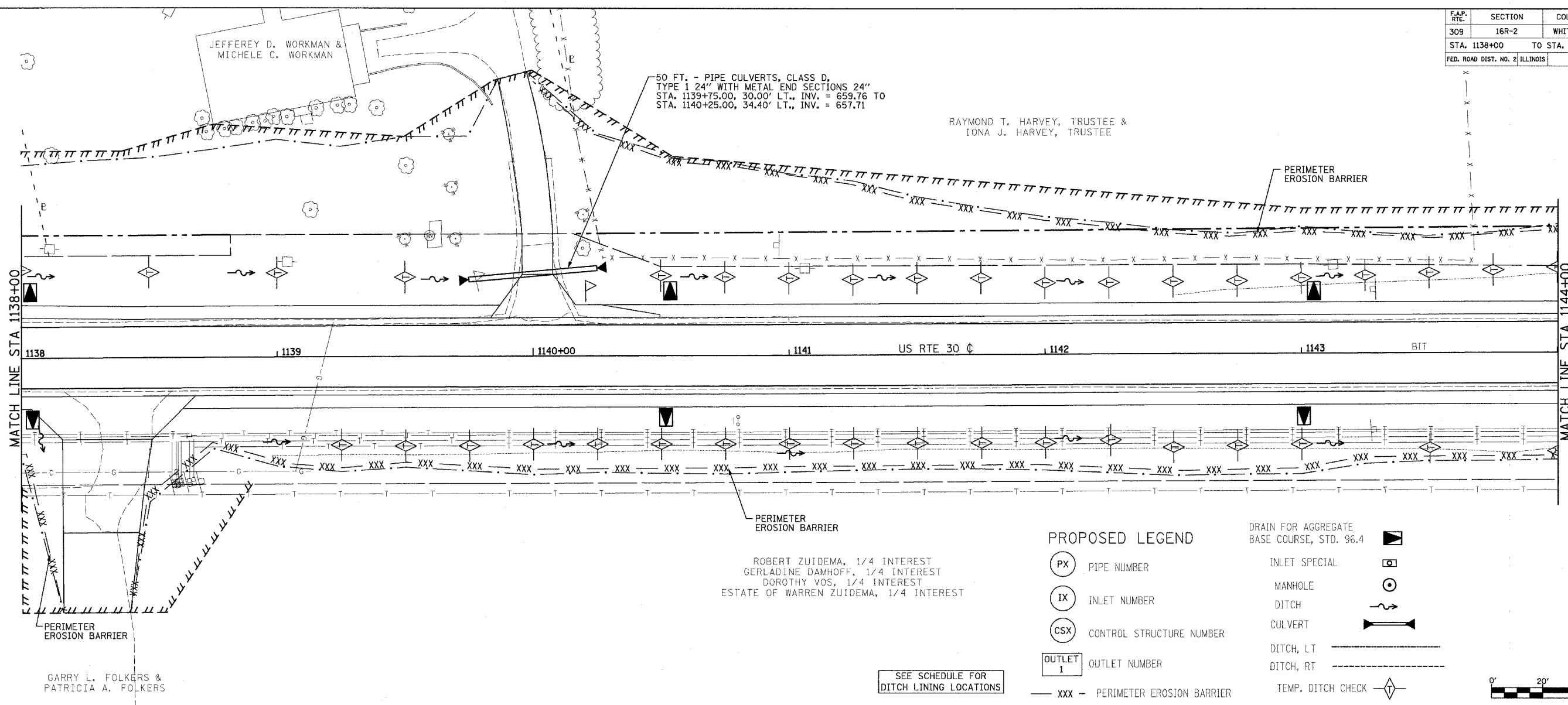
PROPOSED LEGEND

- PX PIPE NUMBER
- IX INLET NUMBER
- CSX CONTROL STRUCTURE NUMBER
- OUTLET OUTLET NUMBER
- INLET SPECIAL INLET SPECIAL
- MANHOLE MANHOLE
- DITCH DITCH
- CULVERT CULVERT
- TEMP. DITCH CHECK TEMP. DITCH CHECK
- PARKING PARKING
- DRAIN FOR AGGREGATE BASE COURSE, STD. 96.4 DRAIN FOR AGGREGATE BASE COURSE, STD. 96.4
- PERIMETER EROSION BARRIER PERIMETER EROSION BARRIER



DRAINAGE AND EROSION CONTROL PLANS (US RTE 30)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	122
STA. 1138+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2 ILLINOIS		FED. AID PROJECT		



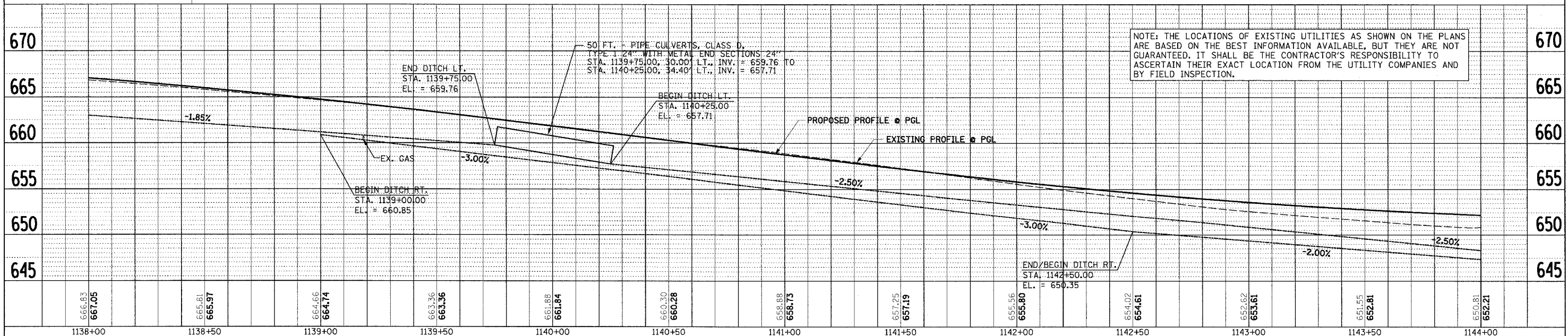
PROPOSED LEGEND

- (PX) PIPE NUMBER
- (IX) INLET NUMBER
- (CSX) CONTROL STRUCTURE NUMBER
- OUTLET 1 OUTLET NUMBER
- xxx — PERIMETER EROSION BARRIER
- INLET SPECIAL
- MANHOLE
- DITCH
- CULVERT
- DITCH, LT
- DITCH, RT
- TEMP. DITCH CHECK

DRAIN FOR AGGREGATE BASE COURSE, STD. 96.4

ROBERT ZUIDEMA, 1/4 INTEREST
 GERLADINE DAMHOFF, 1/4 INTEREST
 DOROTHY VOS, 1/4 INTEREST
 ESTATE OF WARREN ZUIDEMA, 1/4 INTEREST

SEE SCHEDULE FOR DITCH LINING LOCATIONS



DRAINAGE AND EROSION CONTROL PLANS (US RTE 30)

DATE	BY	REVISION

DATE	BY	REVISION

DATE	BY	REVISION

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	124
STA. 1150+00		TO STA. 1156+00		
FED. ROAD DIST. NO. 2 ILLINOIS			FED. AID PROJECT	

BARBERA A. BERGE, 1/2 INTEREST
ESTATE OF DENNIS D. WOOD, 1/2 INTEREST

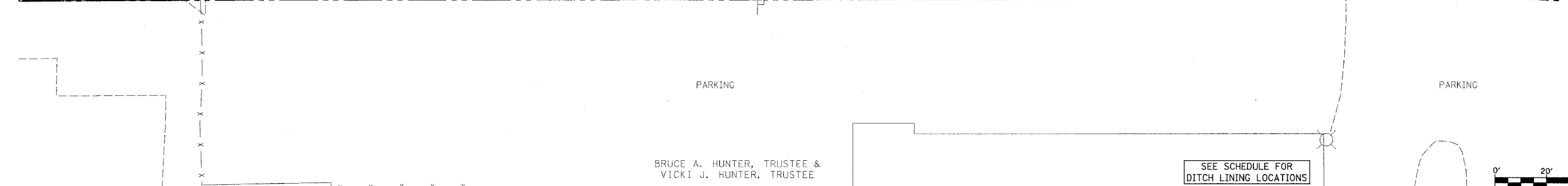
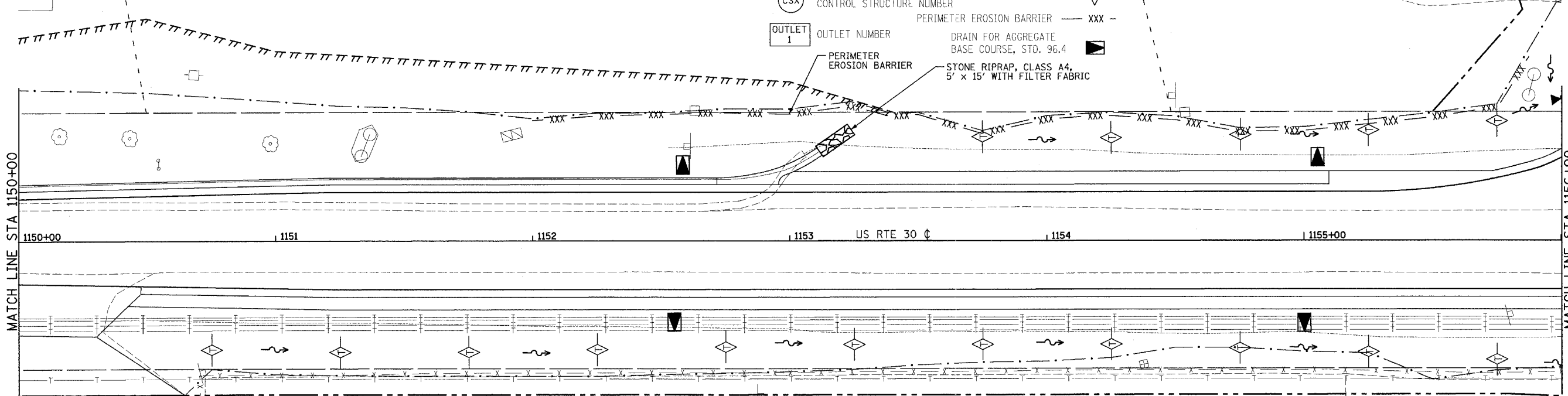
PROPOSED LEGEND

- (PX) PIPE NUMBER
- (IX) INLET NUMBER
- (CSX) CONTROL STRUCTURE NUMBER
- OUTLET 1 OUTLET NUMBER
- INLET SPECIAL
- MANHOLE
- DITCH
- CULVERT
- TEMP. DITCH CHECK
- PERIMETER EROSION BARRIER
- DRAIN FOR AGGREGATE BASE COURSE, STD. 96.4
- STONE RIPRAP, CLASS A4, 5' x 15' WITH FILTER FABRIC

JOEL A. MEDEMA

DATE	BY	REVISION
		REVISED
		PLOTTED
		ALIGNMENT CHECKED
		GRADES CHECKED
		STRUCTURE NOTATIONS CHECKED
		F.A.D. FILE NAME
		NO.

DATE	BY	REVISION
		REVISED
		PLOTTED
		ALIGNMENT CHECKED
		GRADES CHECKED
		STRUCTURE NOTATIONS CHECKED
		F.A.D. FILE NAME
		NO.



BRUCE A. HUNTER, TRUSTEE &
VICKI J. HUNTER, TRUSTEE

SEE SCHEDULE FOR
DITCH LINING LOCATIONS

NOTE: THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

STATION	ELEVATION	STRUCTURE	GRADE	STRUCTURE	ELEVATION
1150+00	654.58				
	654.57				
1150+50	654.25				
	654.22				
1151+00	653.72				
	653.70				
1151+50	653.19				
	653.01				
1152+00	652.43				
	652.14				
1152+50	651.54				
	651.14				
1153+00	650.37				
	650.14				
1153+50	649.36				
	649.13				
1154+00	648.06				
	648.20				
1154+50	646.50				
	647.50				
1155+00	645.48				
	647.00				
1155+50	644.70				
	646.73				
1156+00	643.84				
	646.84				

DRAINAGE AND EROSION CONTROL PLANS (US RTE 30)

F.A.P. RFL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	126
STA. 1162+00		TO STA. 1168+00		
FED. ROAD DIST. NO. 2 ILLINOIS		FED. AID PROJECT		

YOUNG ENTERPRISES,
AN ILLINOIS PARTNERSHIP

JBKM INC.

MIDWEST INVESTMENTS, L.P.

PARKING

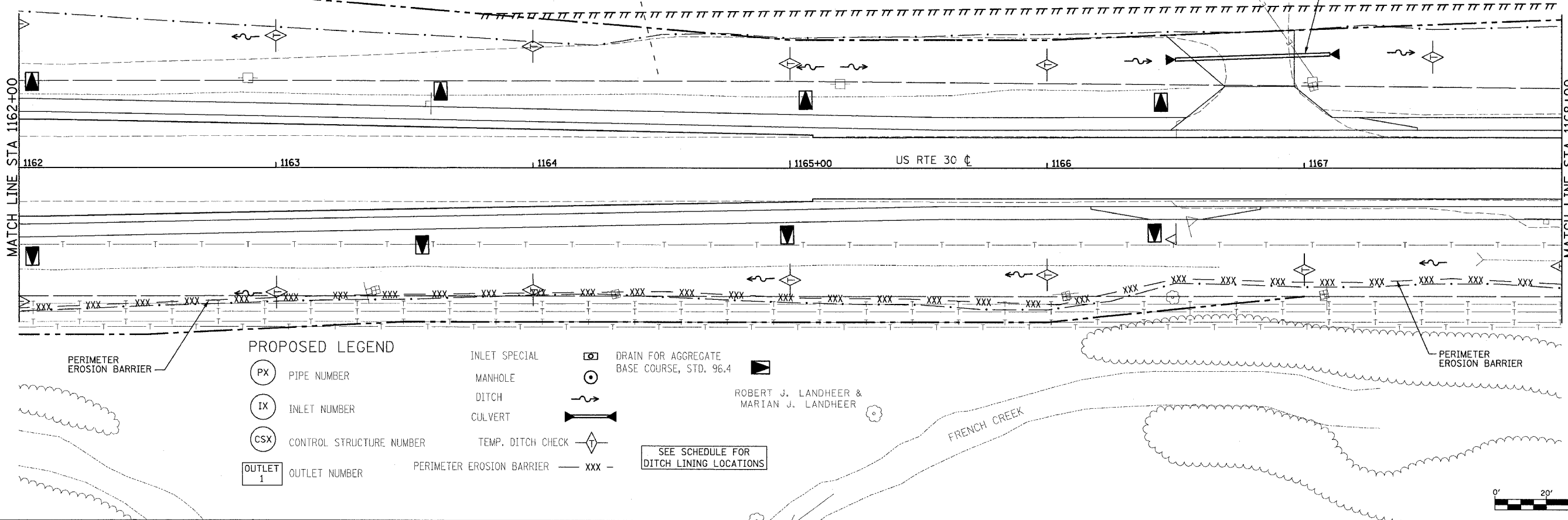
60 FT. - PIPE CULVERTS, CLASS D,
TYPE 1 15" WITH METAL END SECTIONS 15"
STA. 1166+50.00, 42.49' LT., INV. = 639.72 TO
STA. 1167+0.00, 44.51' LT., INV. = 639.48

DATE	BY	REVISION
		REVISED
		PLANNING
		DESIGN
		CONSTRUCTION
		AS BUILT

DATE	BY	REVISION
		REVISED
		PLANNING
		DESIGN
		CONSTRUCTION
		AS BUILT

MATCH LINE STA 1162+00

MATCH LINE STA 1168+00

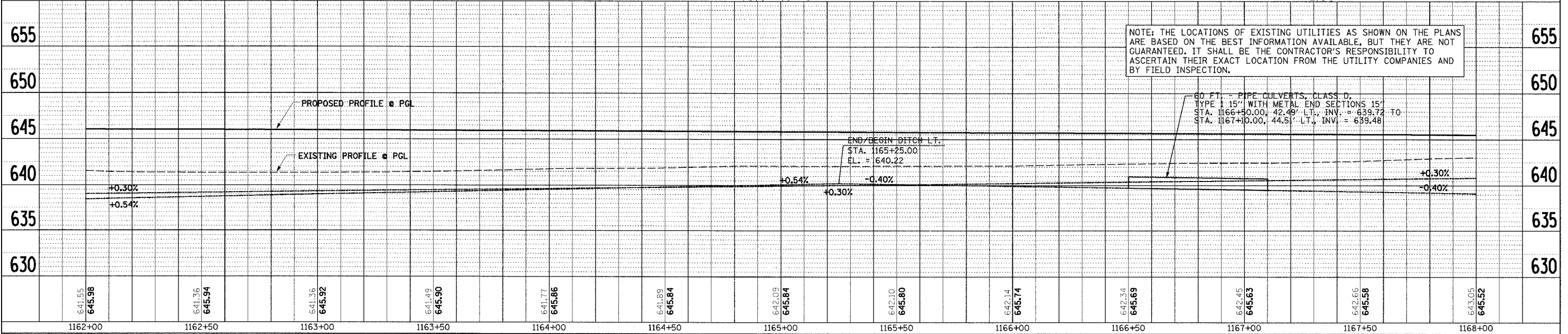


PROPOSED LEGEND

- (PX) PIPE NUMBER
- (IX) INLET NUMBER
- (CSX) CONTROL STRUCTURE NUMBER
- OUTLET 1 OUTLET NUMBER
- INLET SPECIAL
- MANHOLE
- DITCH
- CULVERT
- TEMP. DITCH CHECK
- PERIMETER EROSION BARRIER — xxx —
- DRAIN FOR AGGREGATE BASE COURSE, STD. 96.4

SEE SCHEDULE FOR
DITCH LINING LOCATIONS

ROBERT J. LANDHEER &
MARIAN J. LANDHEER



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60 FT. - PIPE CULVERTS, CLASS D,
TYPE 1 15" WITH METAL END SECTIONS 15"
STA. 1166+50.00, 42.49' LT., INV. = 639.72 TO
STA. 1167+0.00, 44.51' LT., INV. = 639.48

END/BEGIN DITCH LT.
STA. 1165+25.00
EL. = 640.22

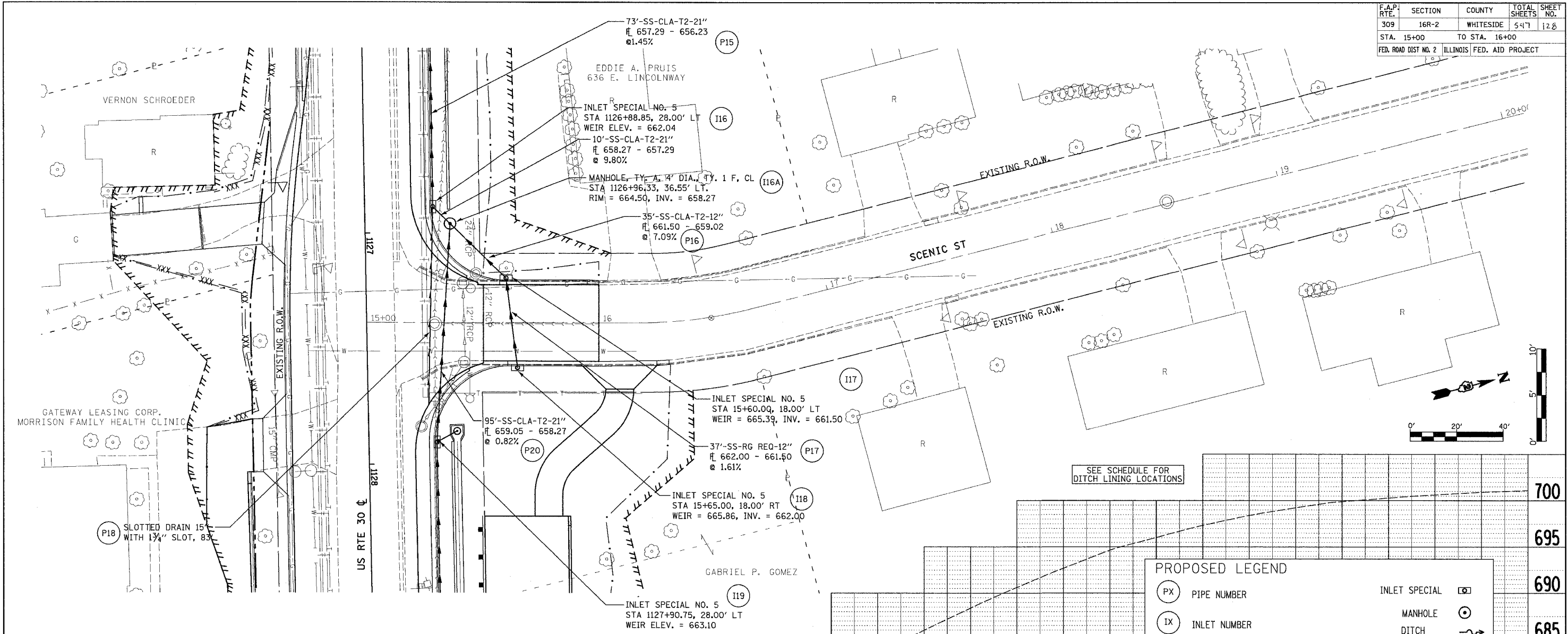
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DRAINAGE AND EROSION CONTROL PLANS (US RTE 30)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	128
STA. 15+00		TO STA. 16+00		
FED. ROAD DIST NO. 2		ILLINOIS		FED. AID PROJECT

PLAN	SURVEYED	DATE
	NOTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	CADD FILE NAME	

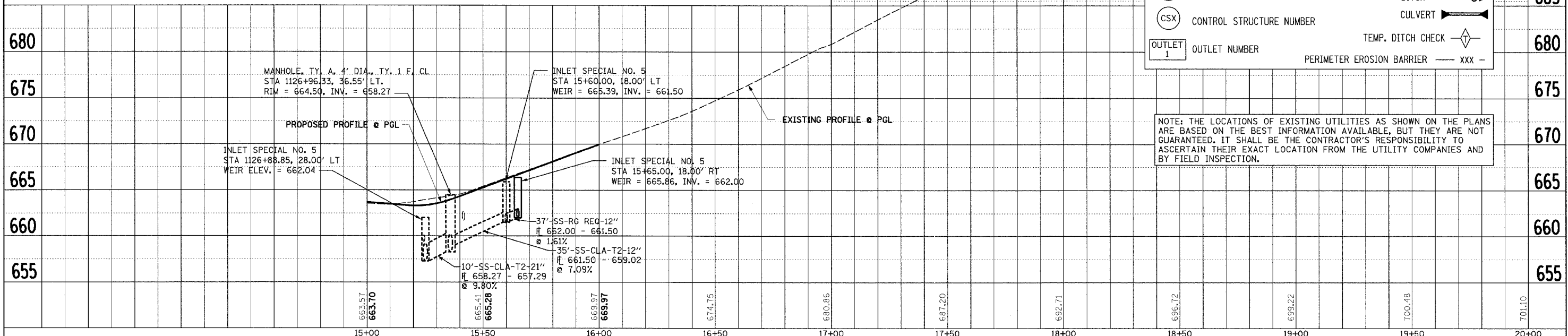
PROFILE	SURVEYED	DATE
	NOTED	
	CHECKED	
	BY	
	STRUCTURE NOTATIONS CHECKED	



SEE SCHEDULE FOR DITCH LINING LOCATIONS

PROPOSED LEGEND	
(PX)	PIPE NUMBER
(IX)	INLET NUMBER
(CSX)	CONTROL STRUCTURE NUMBER
OUTLET 1	OUTLET NUMBER
INLET SPECIAL	(Symbol)
MANHOLE	(Symbol)
DITCH	(Symbol)
CULVERT	(Symbol)
TEMP. DITCH CHECK	(Symbol)
PERIMETER EROSION BARRIER	(Symbol)

NOTE: THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.



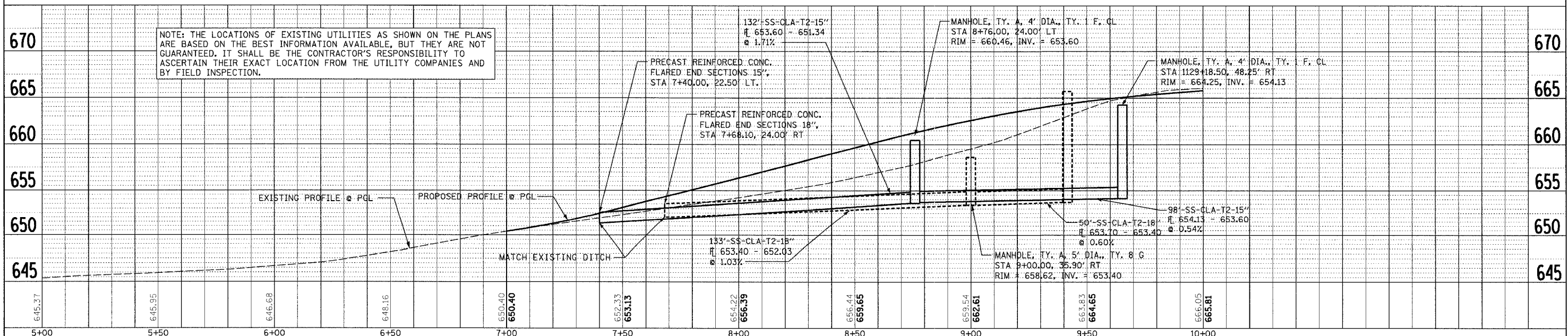
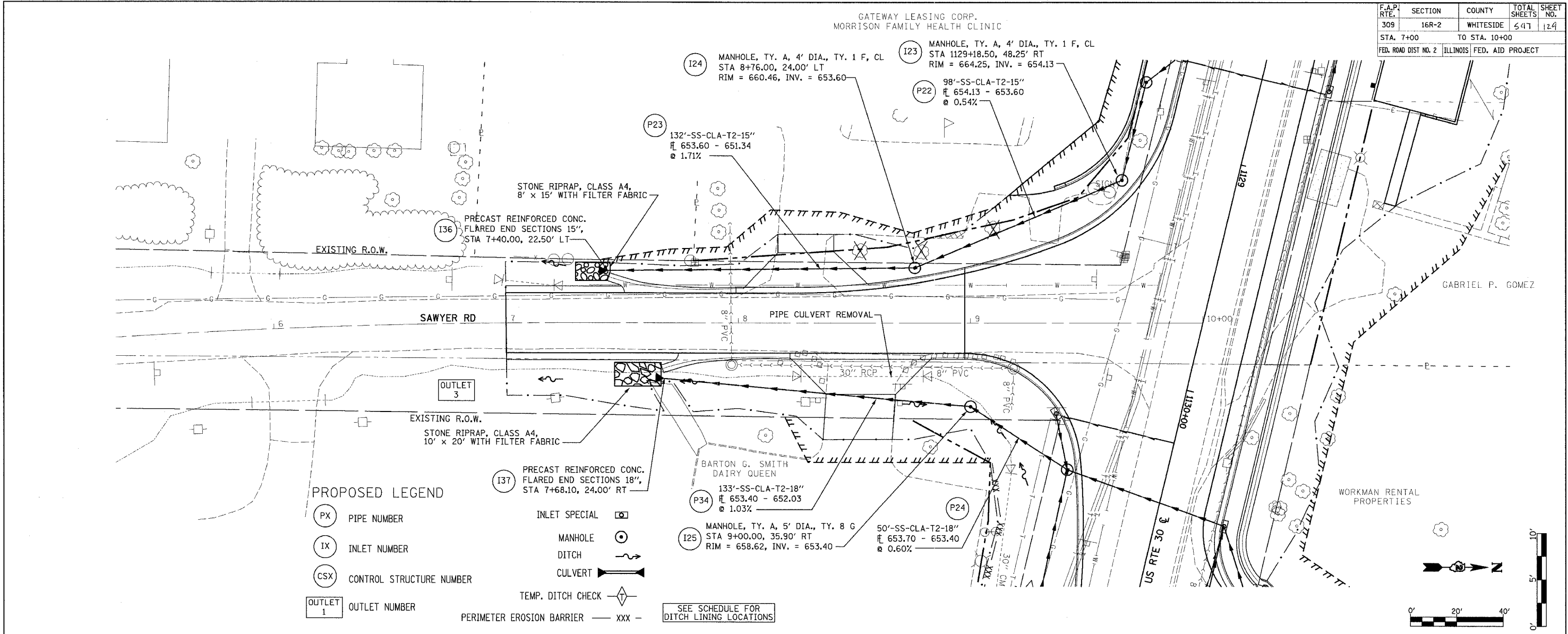
DRAINAGE AND EROSION CONTROL PLANS (SCENIC ST)

GATEWAY LEASING CORP.
MORRISON FAMILY HEALTH CLINIC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	124
STA. 7+00		TO STA. 10+00		
FED. ROAD DIST NO. 2		ILLINOIS		FED. AID PROJECT

DATE	BY
DATE	BY

DATE	BY
DATE	BY



DRAINAGE AND EROSION CONTROL PLANS (SAWYER RD)

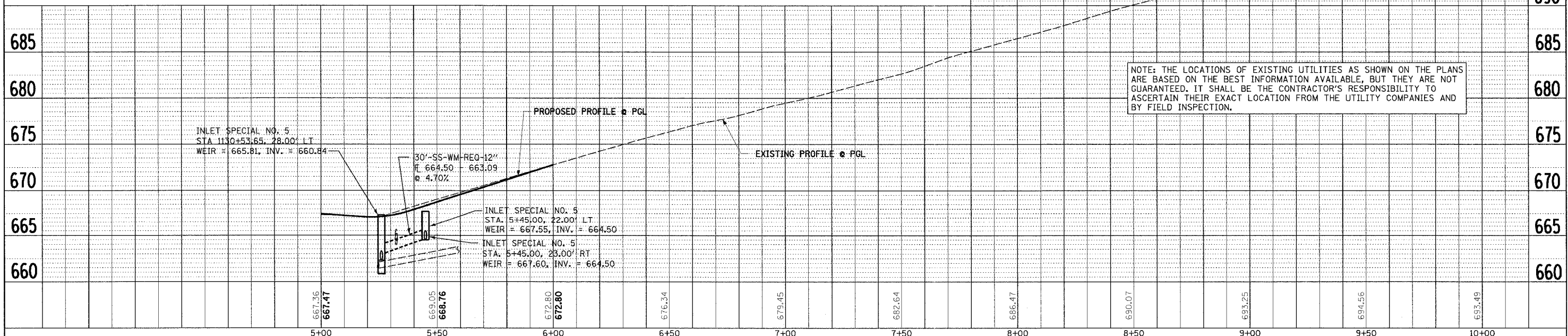
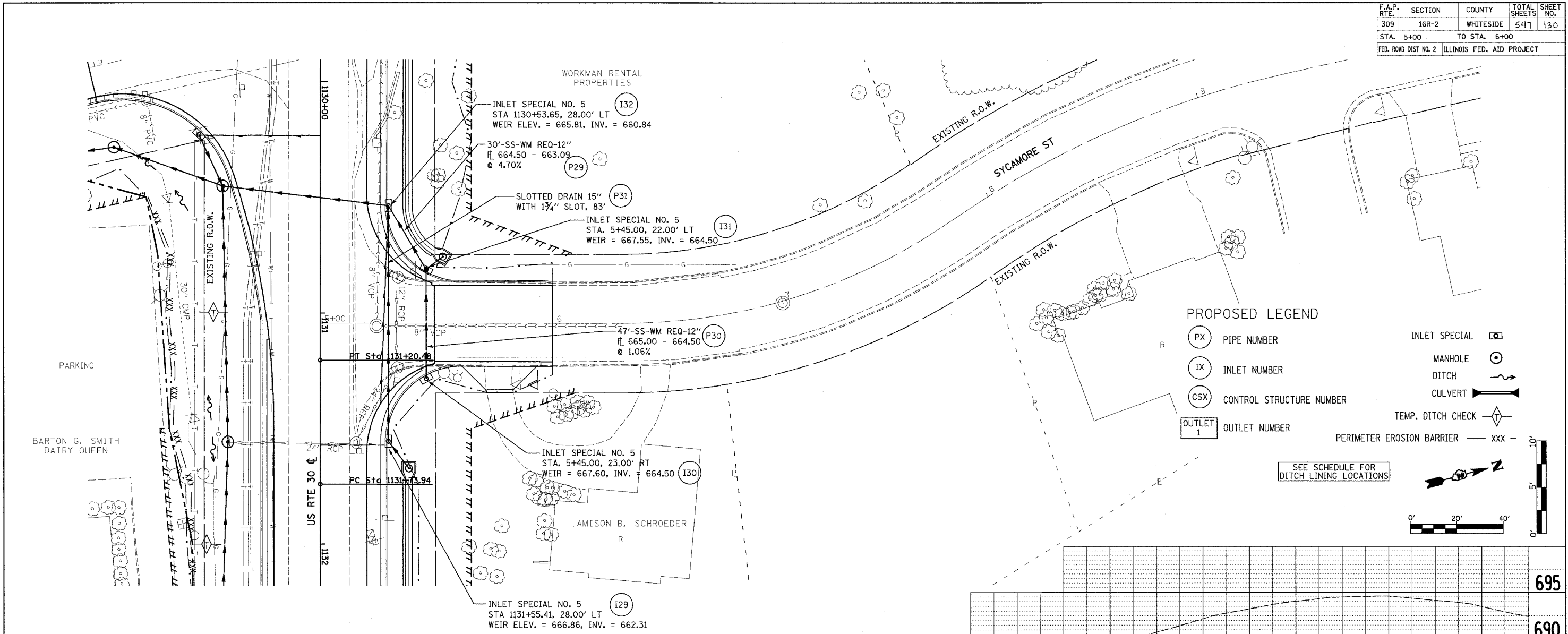
DATE	BY
DATE	BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	130
STA. 5+00		TO STA. 6+00		
FED. ROAD DIST NO. 2 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	
	CHECKED	
	DATE	

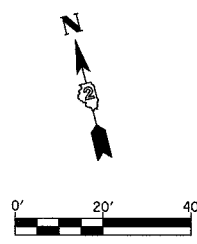
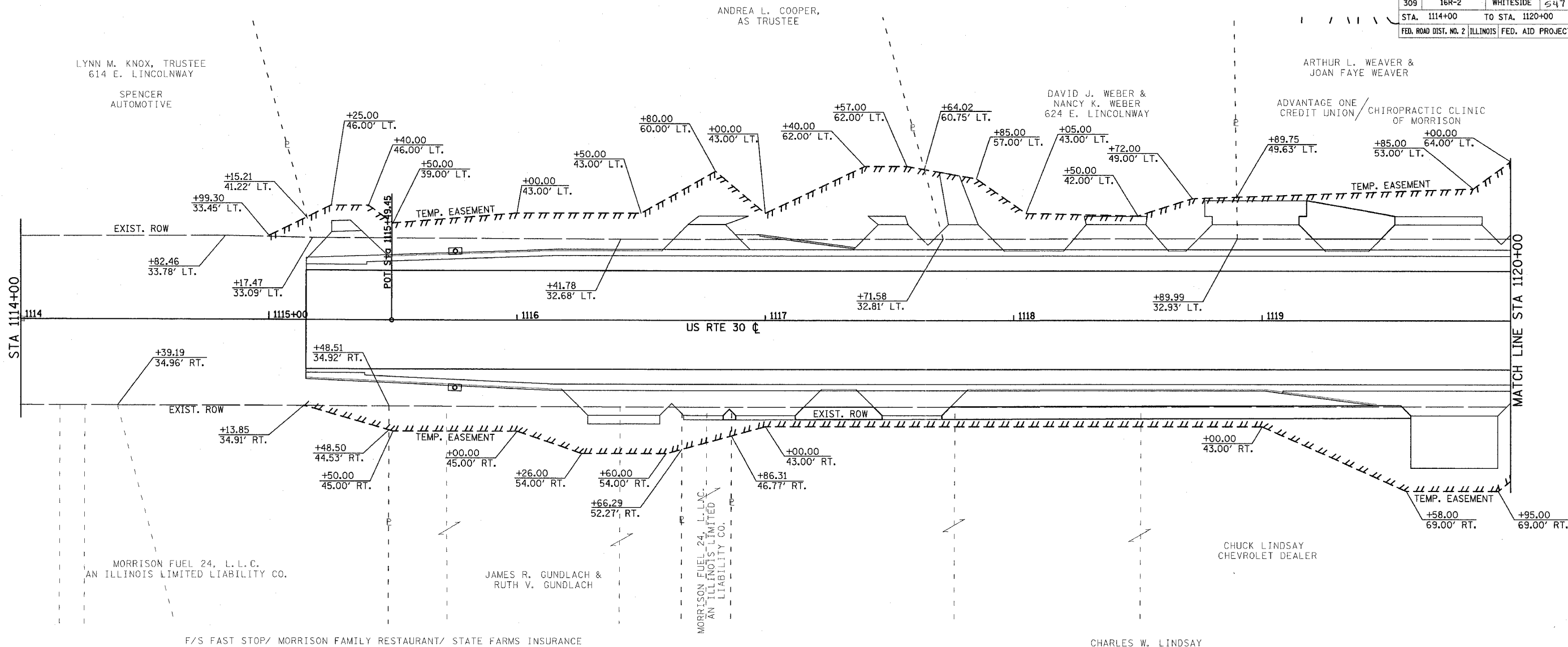
PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	
	CHECKED	
	DATE	

DATE	TIME
REF	REF
REF	REF



DRAINAGE AND EROSION CONTROL PLANS (SYCAMORE ST)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	132
STA. 1114+00		TO STA. 1120+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

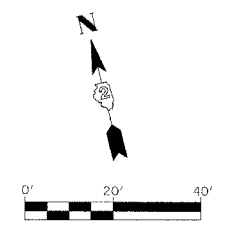
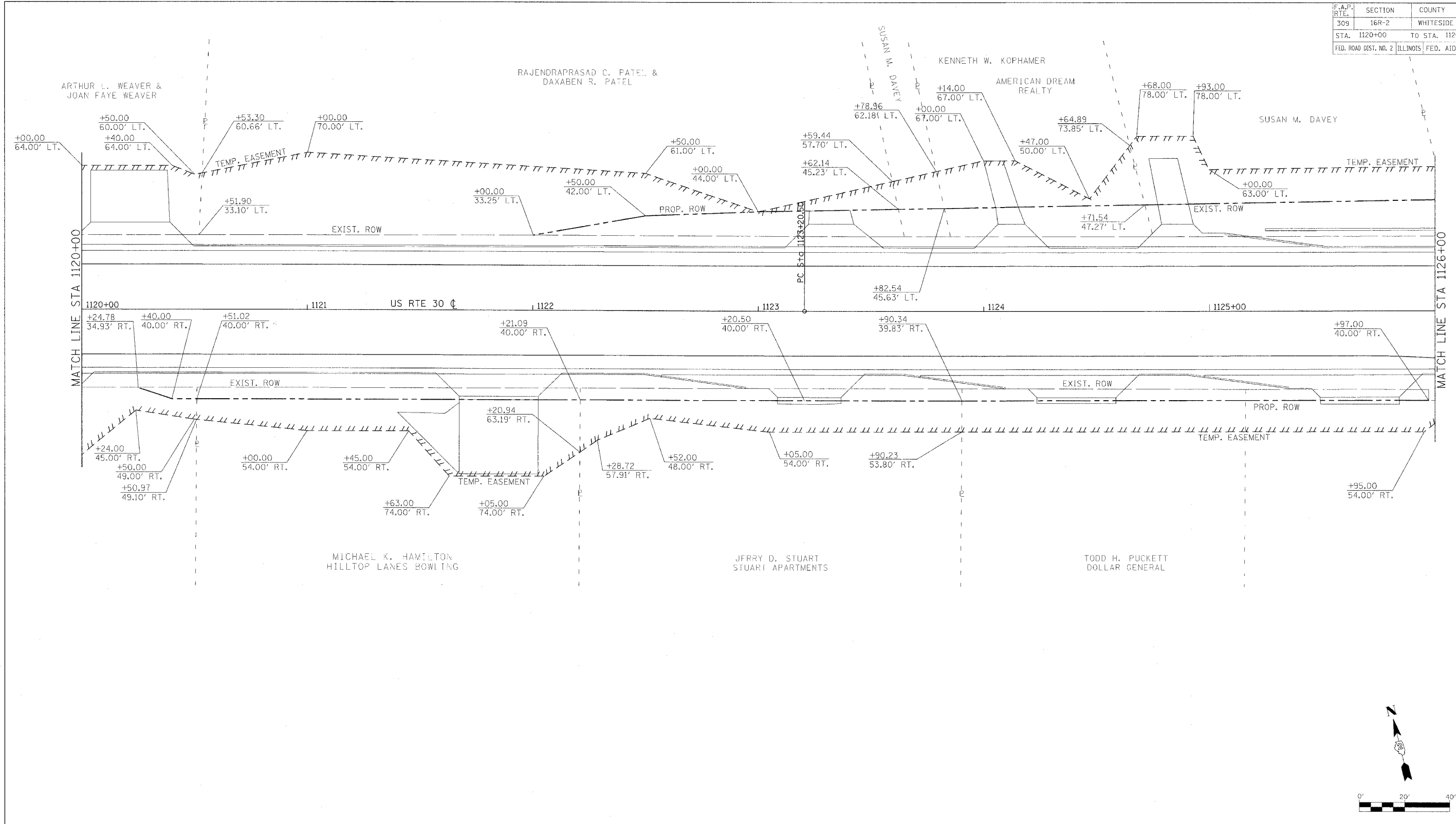


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY
 AND EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1"=20'
 DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	577	133
STA. 1120+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

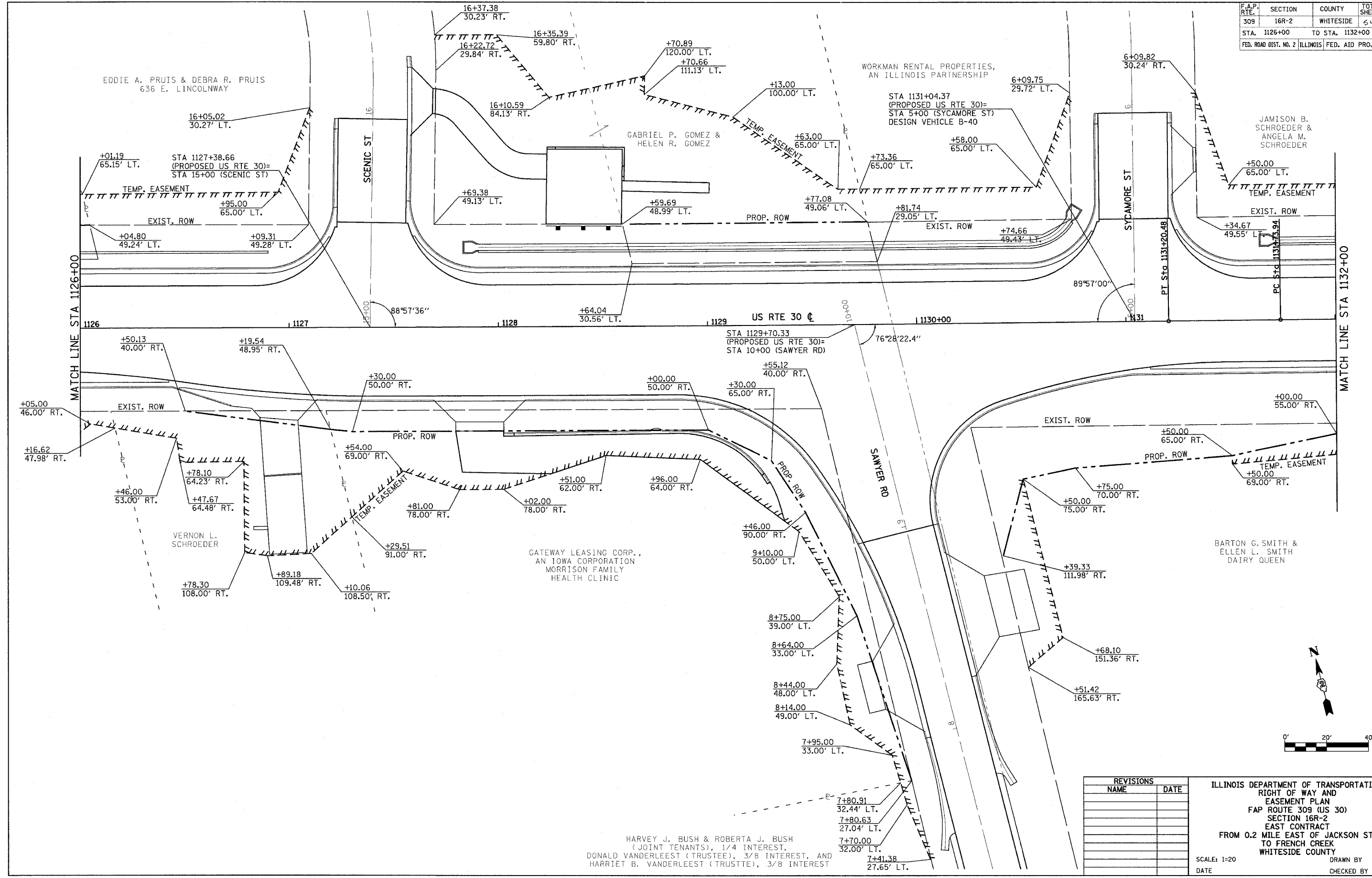


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND
 EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____

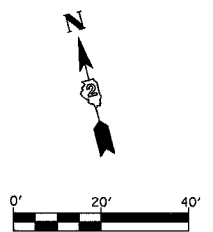
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	134
STA. 1126+00		TO STA. 1132+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



REVISIONS	
NAME	DATE

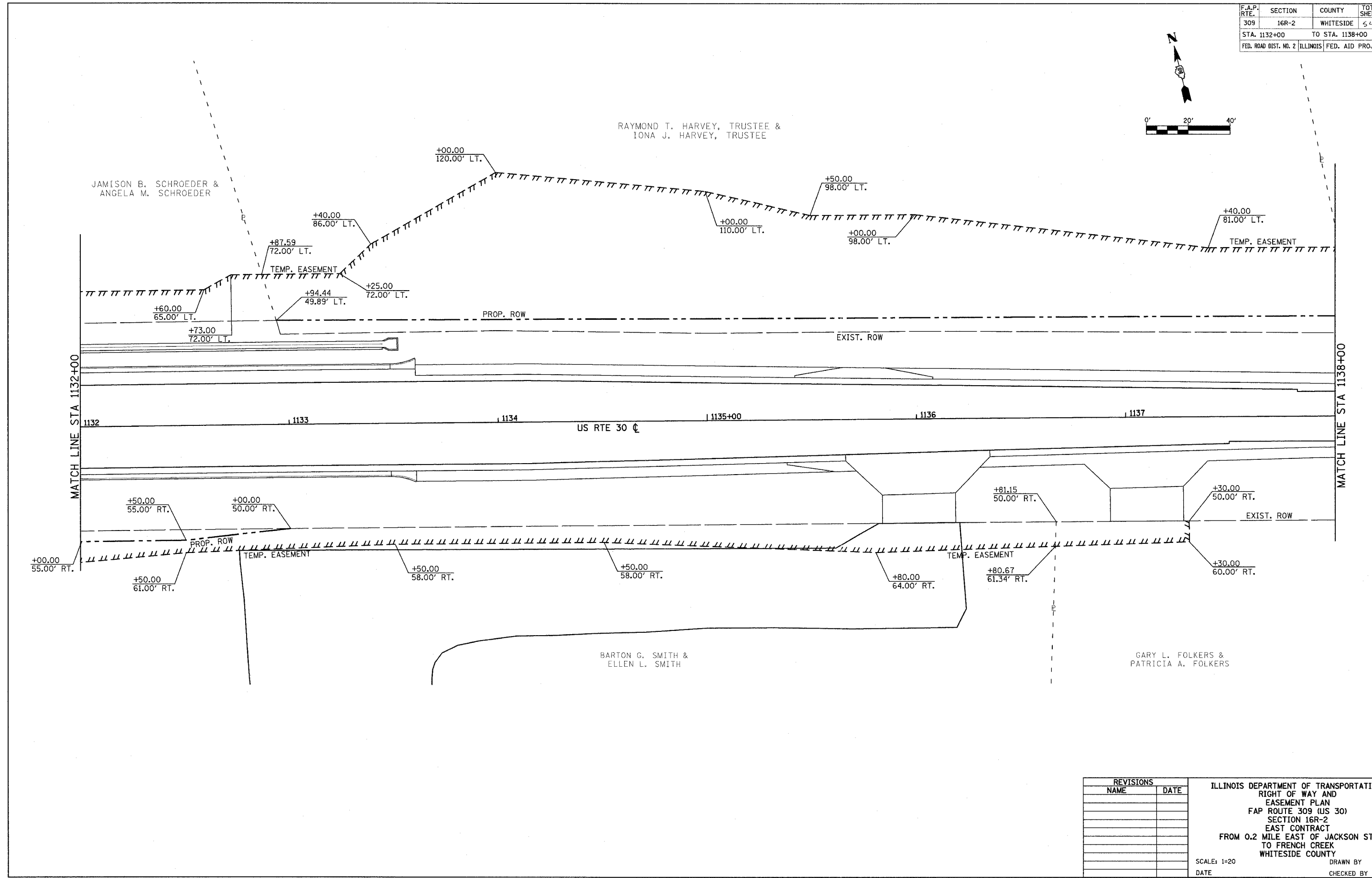
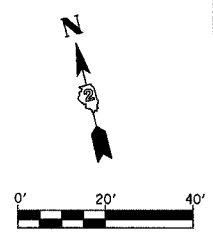
ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND
 EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=20
 DATE _____ DRAWN BY _____
 CHECKED BY _____



HARVEY J. BUSH & ROBERTA J. BUSH
 (JOINT TENANTS), 1/4 INTEREST,
 DONALD VANDERLEEST (TRUSTEE), 3/8 INTEREST, AND
 HARRIET B. VANDERLEEST (TRUSTEE), 3/8 INTEREST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	135
STA. 1132+00		TO STA. 1138+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		

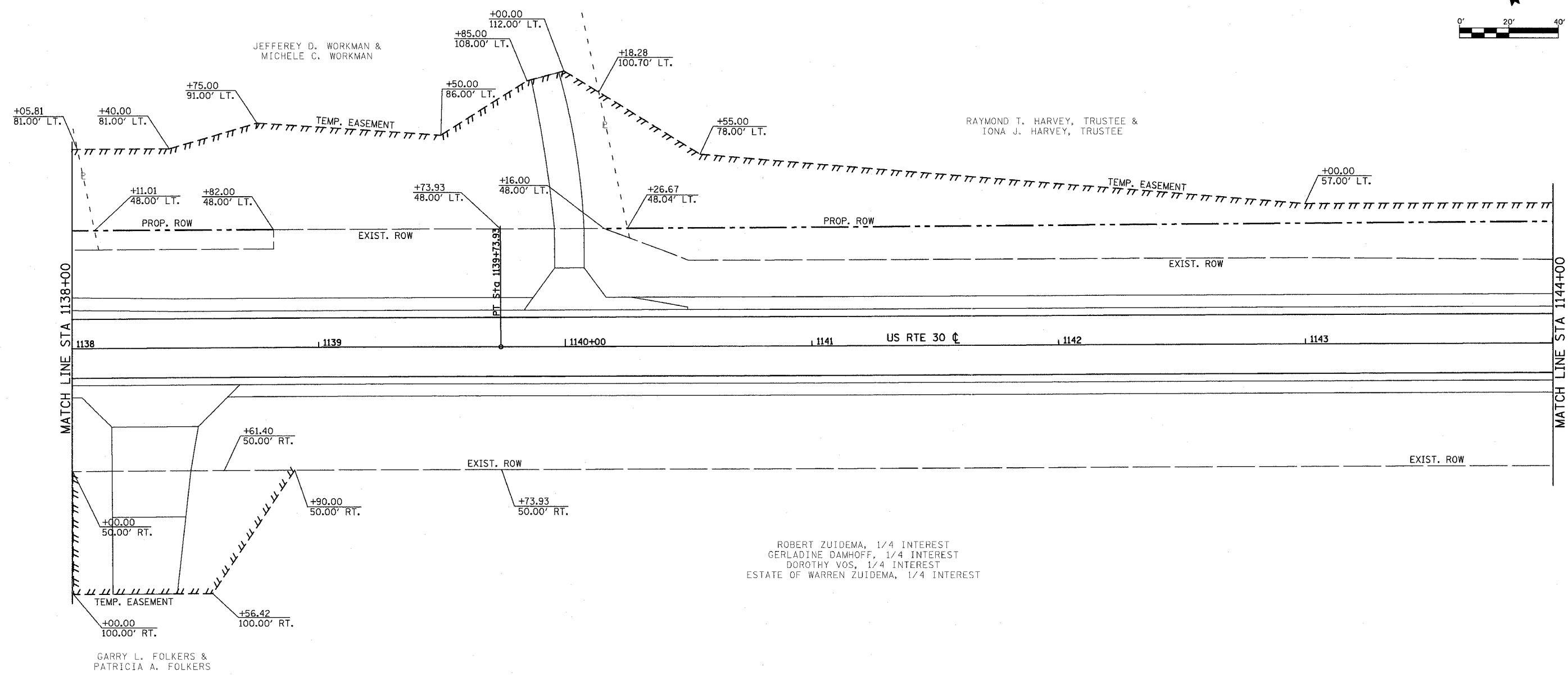
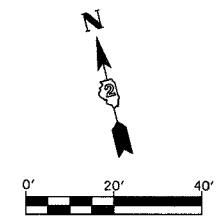


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND
 EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1"=20'
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	136
STA. 1138+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

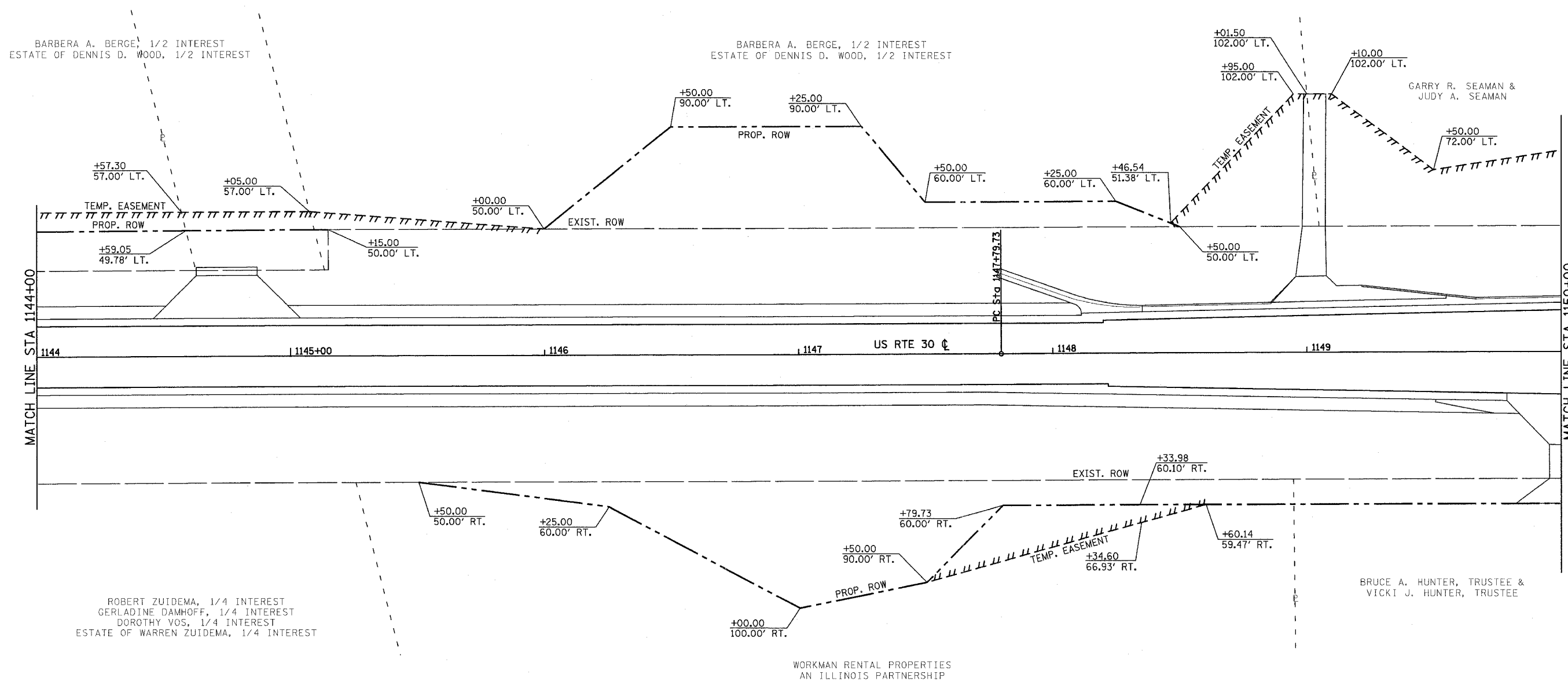
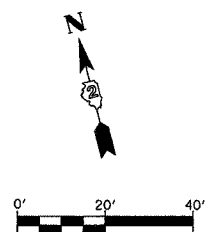


ROBERT ZUIDEMA, 1/4 INTEREST
 GERLADINE DAMHOFF, 1/4 INTEREST
 DOROTHY VOS, 1/4 INTEREST
 ESTATE OF WARREN ZUIDEMA, 1/4 INTEREST

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY AND EASEMENT PLAN FAP ROUTE 309 (US 30) SECTION 16R-2 EAST CONTRACT FROM 0.2 MILE EAST OF JACKSON ST. TO FRENCH CREEK WHITESIDE COUNTY
NAME	DATE	

SCALE: 1"=20'
 DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	137
STA. 1144+00 TO STA. 1150+00				
FED. ROAD DIST. NO. 2 ILLINOIS			FED. AID PROJECT	

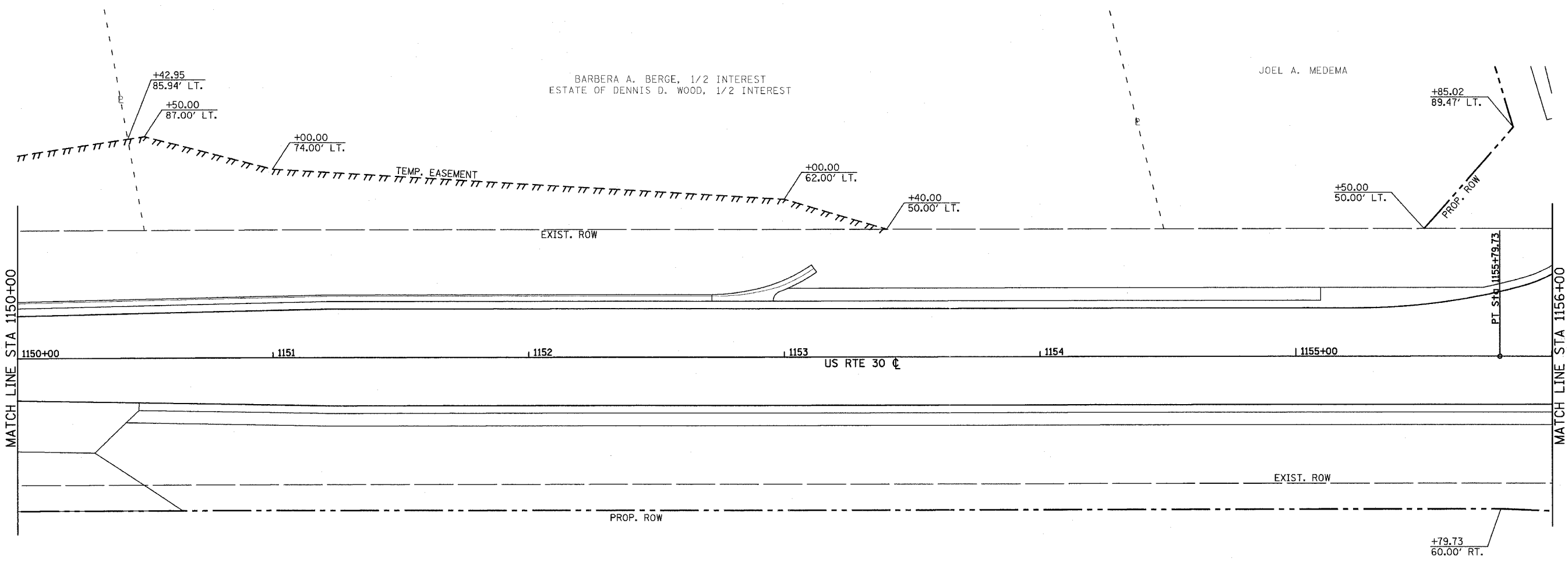
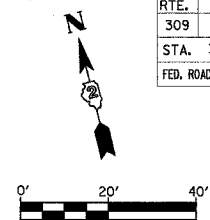


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND
 EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1"=20'
 DATE _____ DRAWN BY _____
 CHECKED BY _____

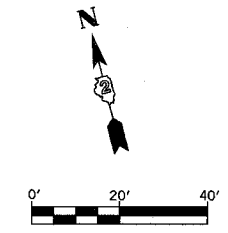
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	138
STA. 1150+00 TO STA. 1156+00				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



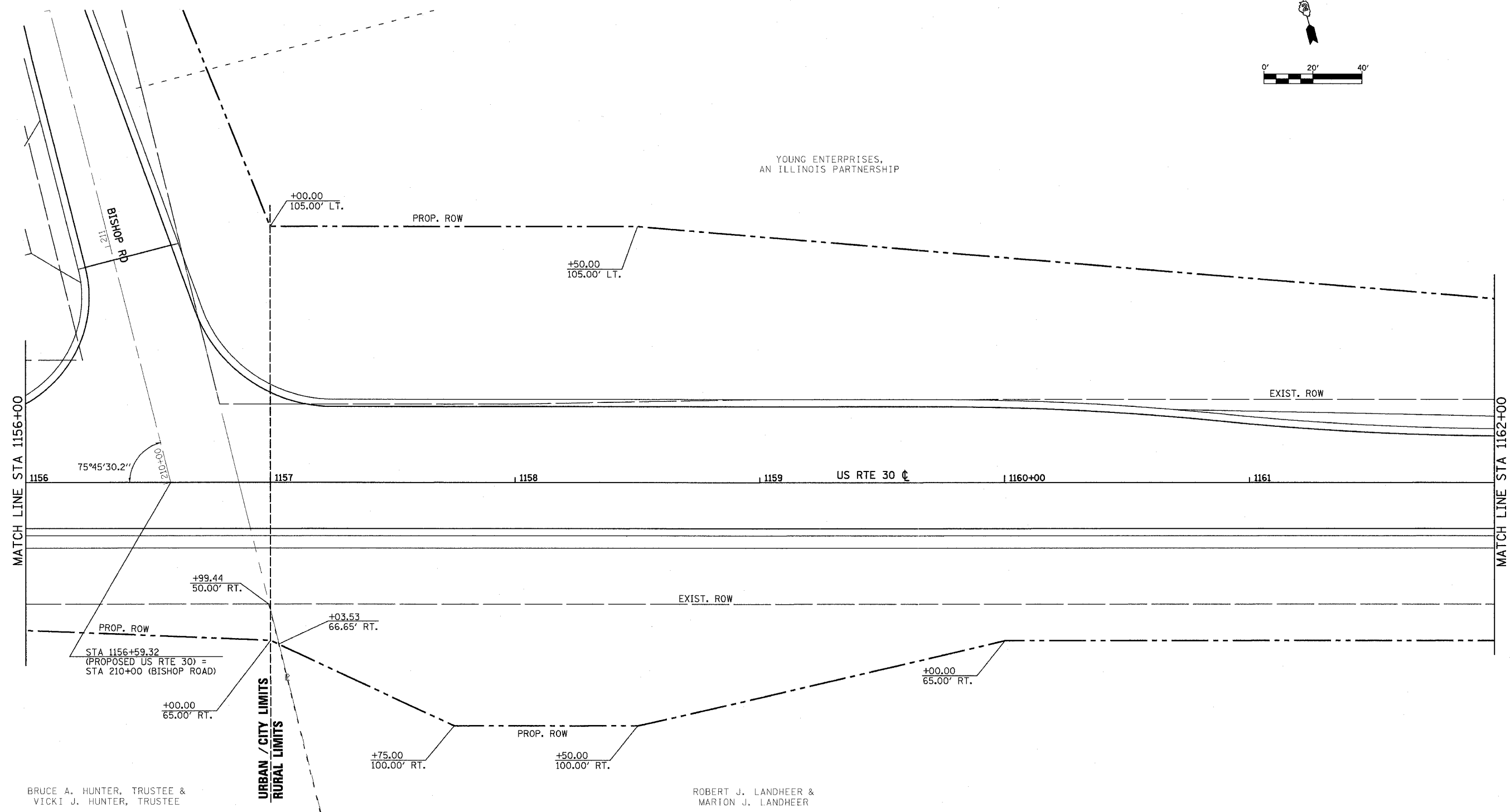
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY AND EASEMENT PLAN FAP ROUTE 309 (US 30) SECTION 16R-2 EAST CONTRACT FROM 0.2 MILE EAST OF JACKSON ST. TO FRENCH CREEK WHITESIDE COUNTY
NAME	DATE	

SCALE: 1"=20'
DATE _____ DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	139
STA. 1156+00 TO STA. 1162+00				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



YOUNG ENTERPRISES,
AN ILLINOIS PARTNERSHIP



BRUCE A. HUNTER, TRUSTEE &
VICKI J. HUNTER, TRUSTEE

ROBERT J. LANDHEER &
MARTON J. LANDHEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY AND
EASEMENT PLAN
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK
WHITESIDE COUNTY

SCALE: 1=20
DATE

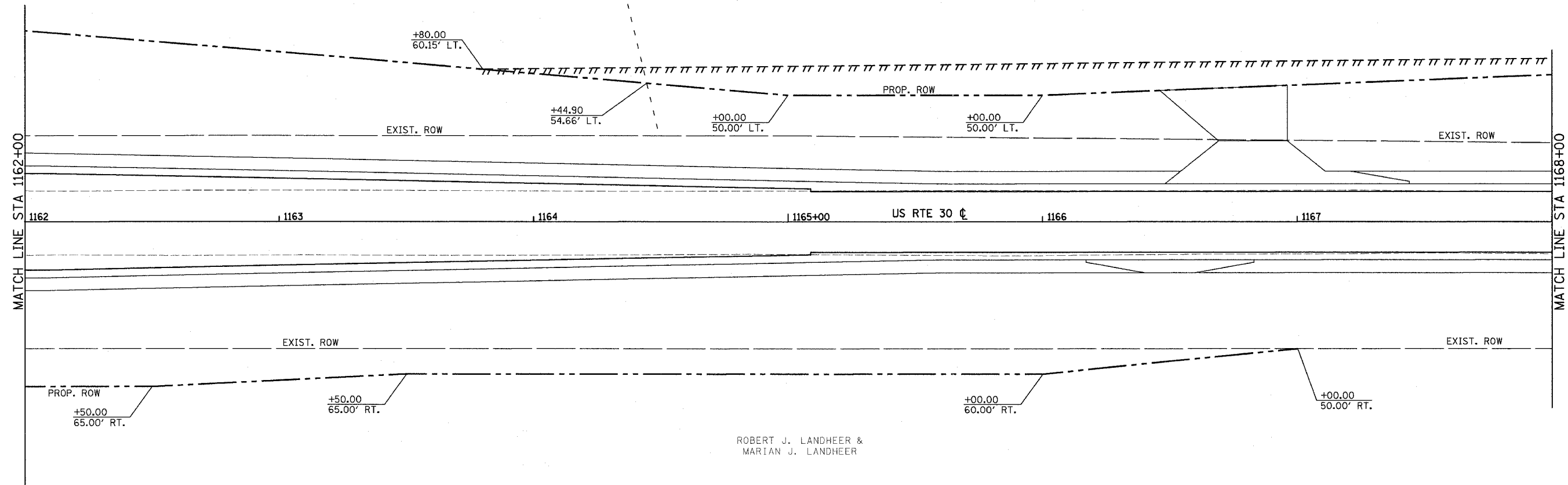
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	140
STA. 1162+00 TO STA. 1168+00				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

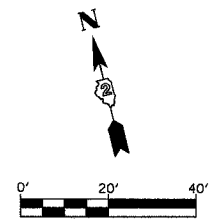
YOUNG ENTERPRISES,
AN ILLINOIS PARTNERSHIP

JBKM INC.

MIDWEST INVESTMENTS, L.P.



ROBERT J. LANDHEER &
MARIAN J. LANDHEER



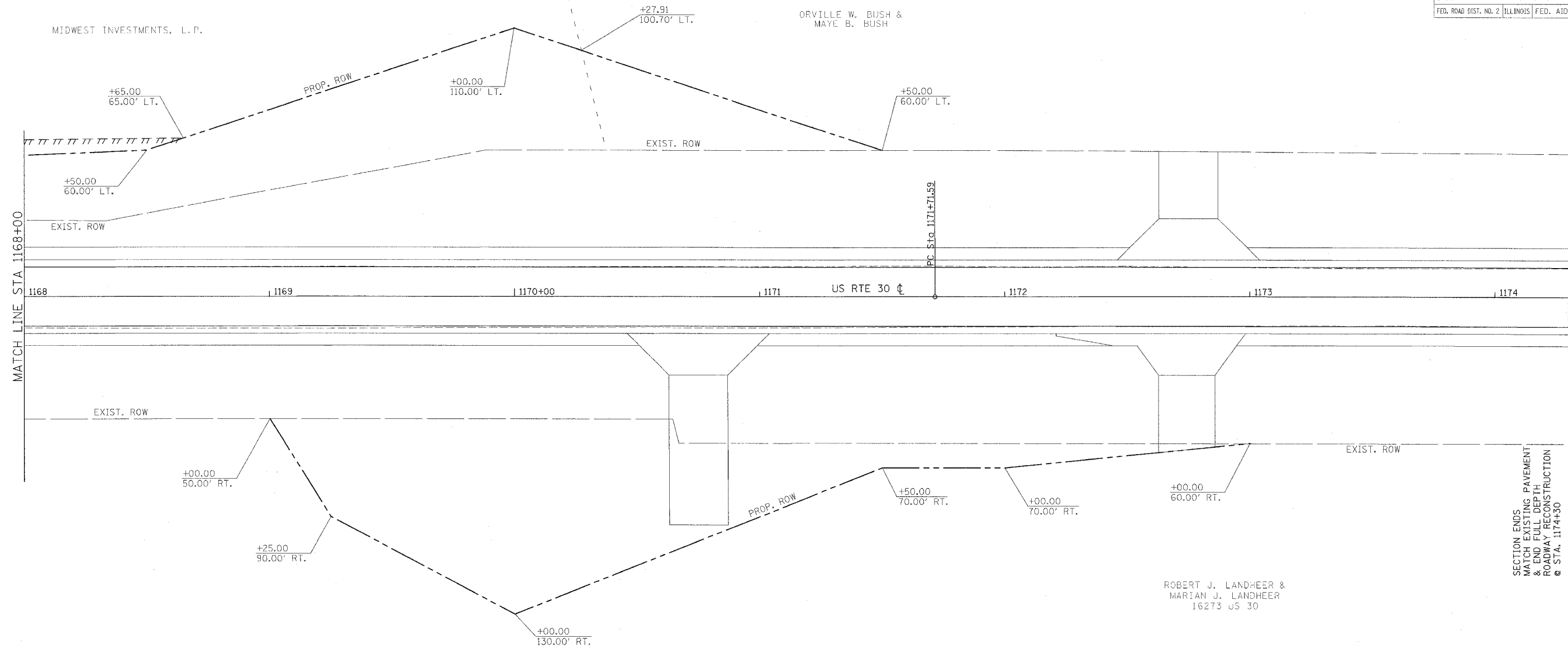
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY AND
EASEMENT PLAN
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
DATE

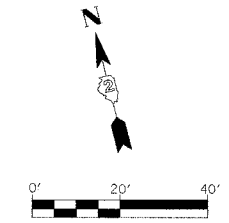
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CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	41
STA. 1168+00		TO STA. 1174+30		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA 1168+00

SECTION ENDS
MATCH EXISTING PAVEMENT
& END FULL DEPTH
ROADWAY RECONSTRUCTION
@ STA. 1174+30

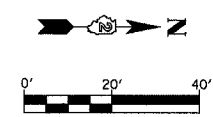
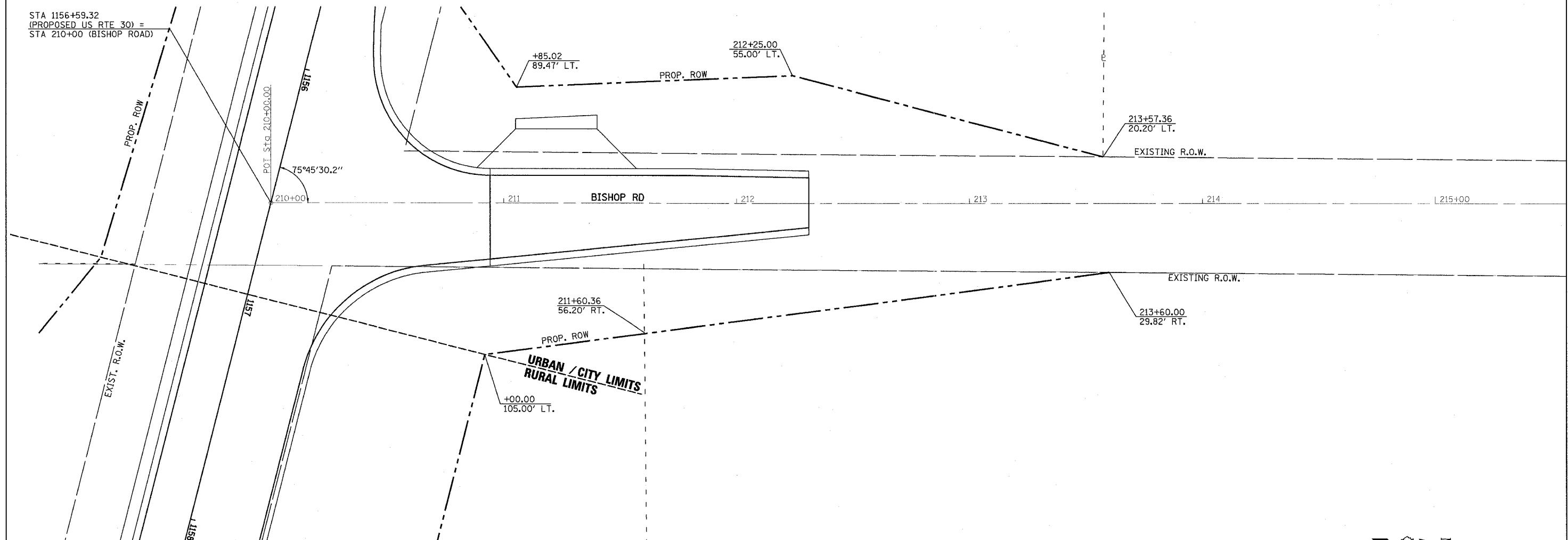


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=20' DRAWN BY
 DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	142
STA. 210+00		TO STA. 212+31		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

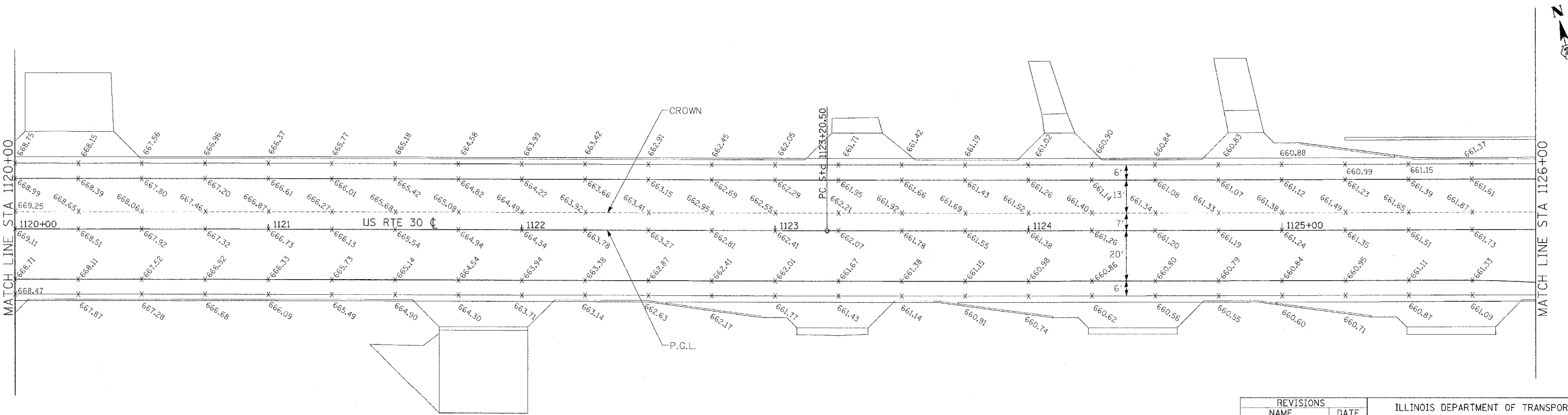
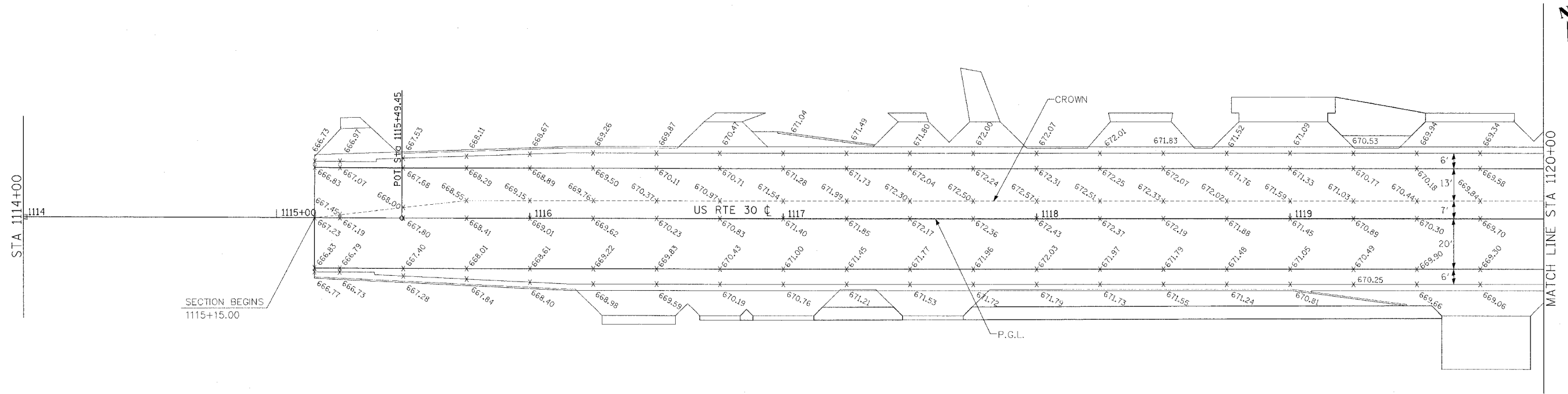


REVISIONS	
NAME	DATE

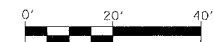
ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIGHT OF WAY AND
 EASEMENT PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	143
STA. 1114+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	



- NOTES:
- ELEVATION SHOWN AT 25 FT. SPACES, TYPICAL.
 - CROWN VARIES FROM CENTERLINE OF F.A.P. 309 (U.S. 30) TO LEFT EDGE OF TURN LANE, STA. 1115+15.00 TO 1115+75.00.
 - SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.



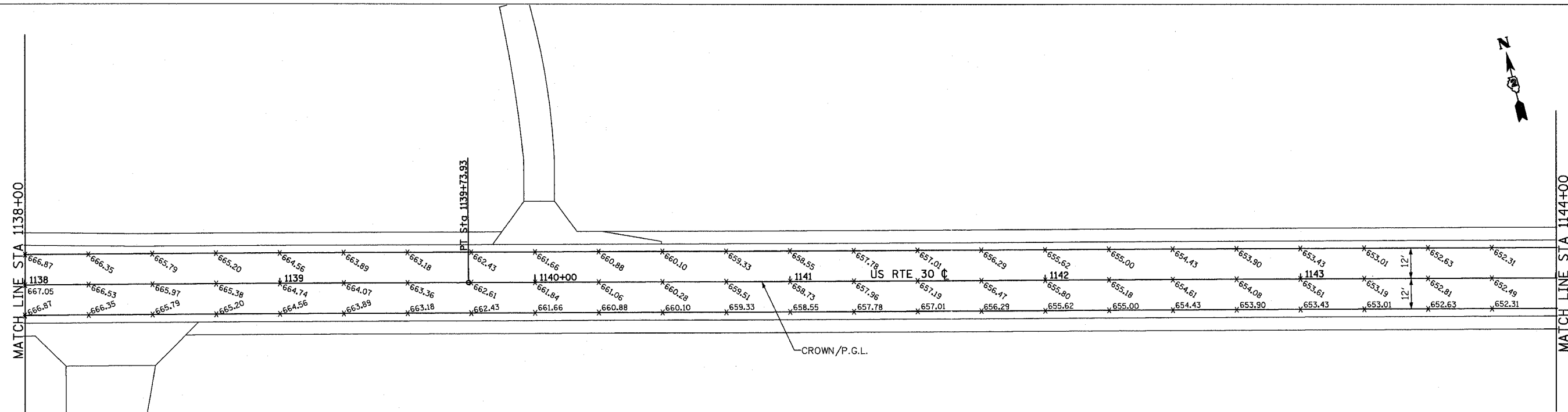
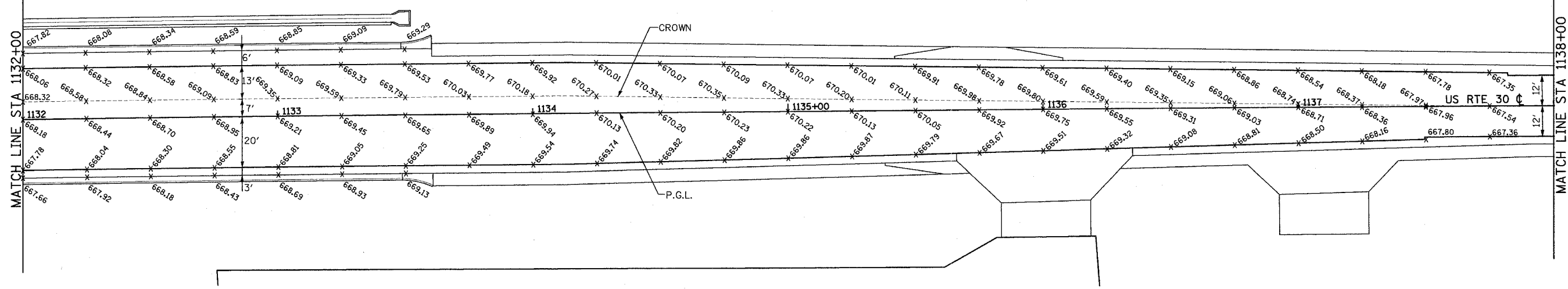
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT GRADING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

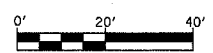
SCALE: 1=20
 DATE 10/13/05

DRAWN BY BRD
 CHECKED BY DY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	144
STA. 1132+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	



- NOTES:
- ELEVATION SHOWN AT 25 FT. SPACES, TYPICAL.
 - CROWN VARIES FROM CENTERLINE OF F.A.P. 309 (U.S. 30) TO LEFT EDGE OF TURN LANE, STA. 1134+13.57 TO 1137+13.57.
 - SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.



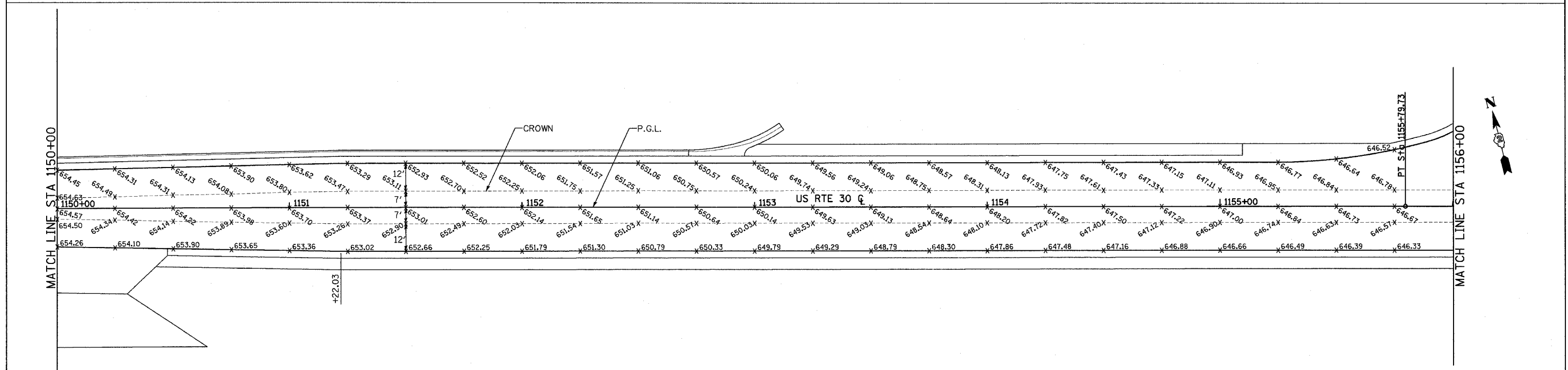
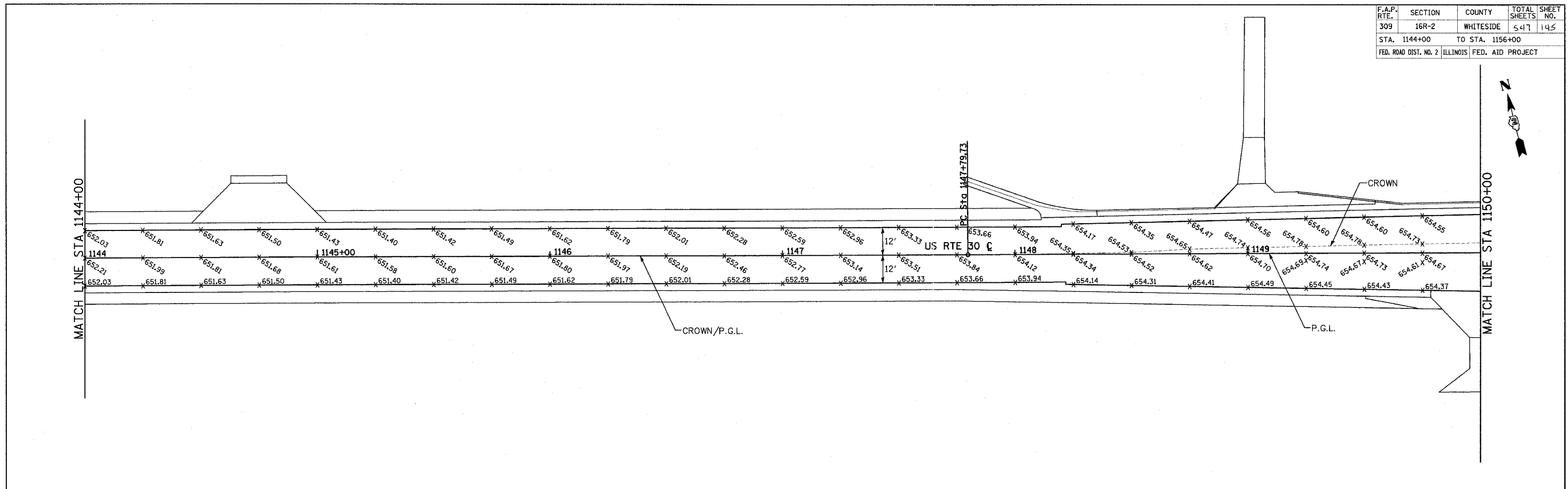
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT GRADING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE 10/13/05

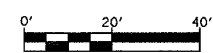
DRAWN BY BRD
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	145
STA. 1144+00		TO STA. 1156+00		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		



NOTES:

- ELEVATION SHOWN AT 25 FT. SPACES, TYPICAL.
- CROWN VARIES FROM CENTERLINE OF F.A.P. 309 (U.S. 30) TO LEFT EDGE OF MEDIAN/TURN LANE, STA. 1148+72.00 TO 1151+72.03.
- SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.

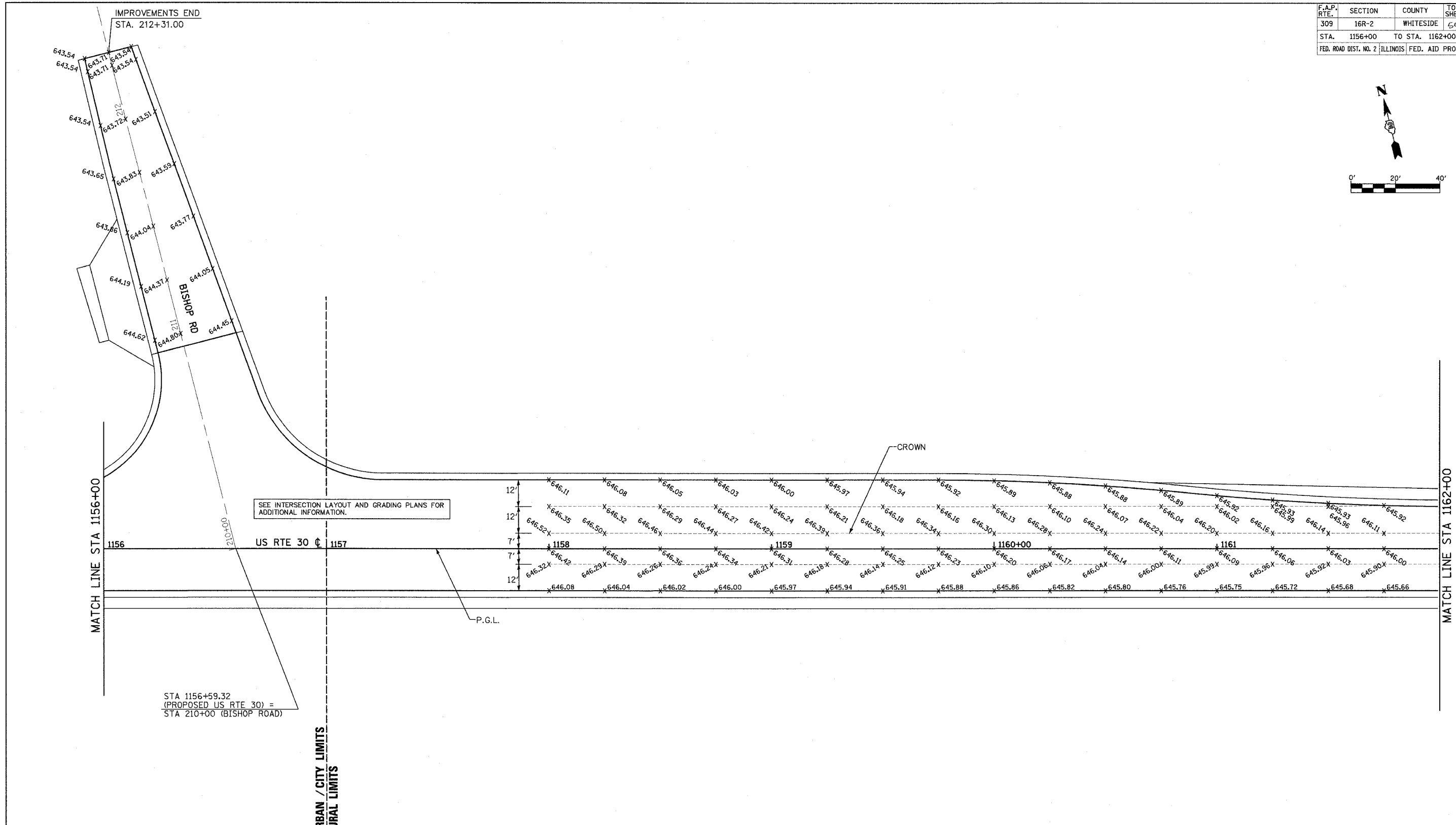
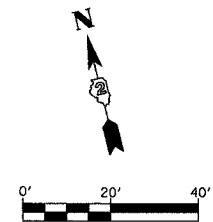


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT GRADING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE 10/13/05
 DRAWN BY BRD
 CHECKED BY RBY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	146
STA. 1156+00 TO STA. 1162+00				
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	



SEE INTERSECTION LAYOUT AND GRADING PLANS FOR ADDITIONAL INFORMATION.

STA 1156+59.32
(PROPOSED US RTE 30) =
STA 210+00 (BISHOP ROAD)

URBAN / CITY LIMITS
RURAL LIMITS

- NOTES:
- ELEVATION SHOWN AT 25 FT. SPACES, TYPICAL.
 - SEE INTERSECTION LAYOUT AND GRADING PLANS FOR ADDITIONAL INFORMATION.
 - SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.

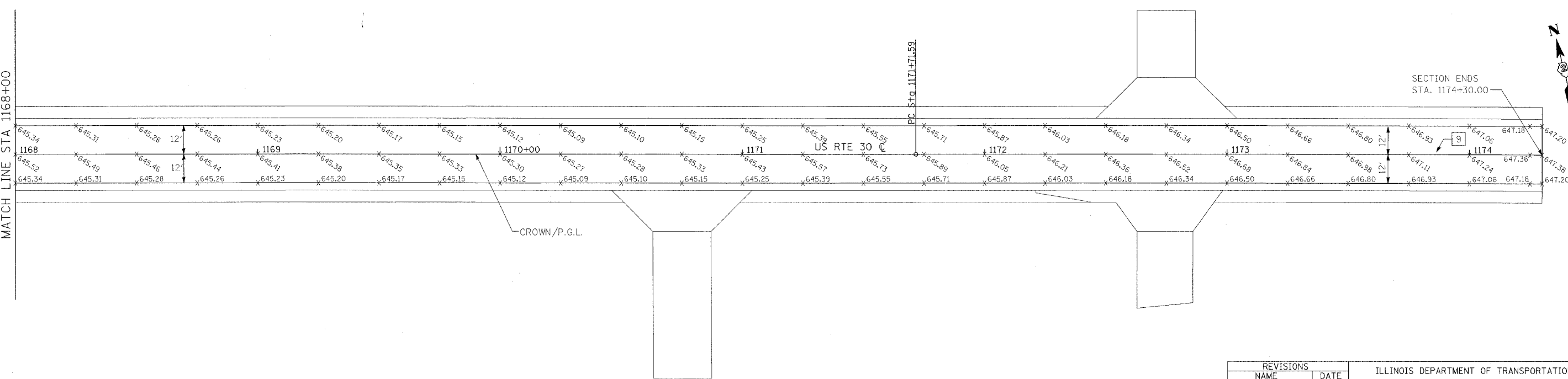
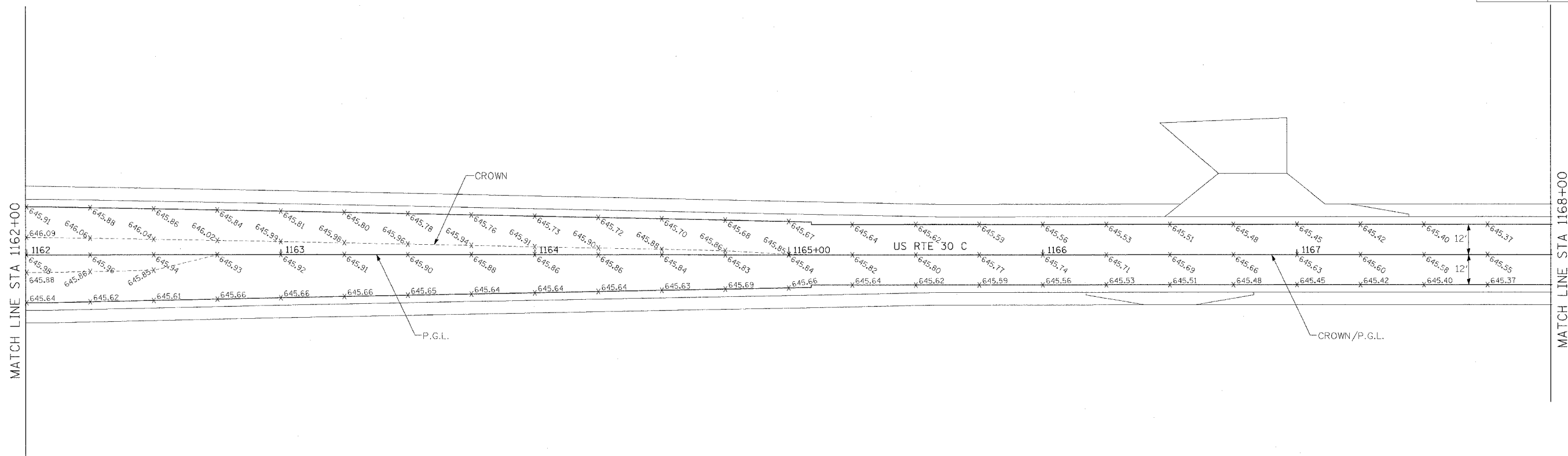
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT GRADING PLAN
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=20'
DATE 10/13/05

DRAWN BY BRD
CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	147
STA. 1162+00		TO STA. 1174+30		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	



- NOTES:
- ELEVATION SHOWN AT 25 FT. SPACES, TYPICAL.
 - CROWN VARIES FROM CENTERLINE OF F.A.P. 309 (U.S. 30) TO LEFT EDGE OF TURN LANE, STA. 1162+08.77 TO 1165+08.77.
 - SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT GRADING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=20'
 DATE 10/13/05

DRAWN BY BRD
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	148
STA. 1126+00		TO STA. 1128+50		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

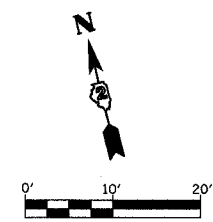
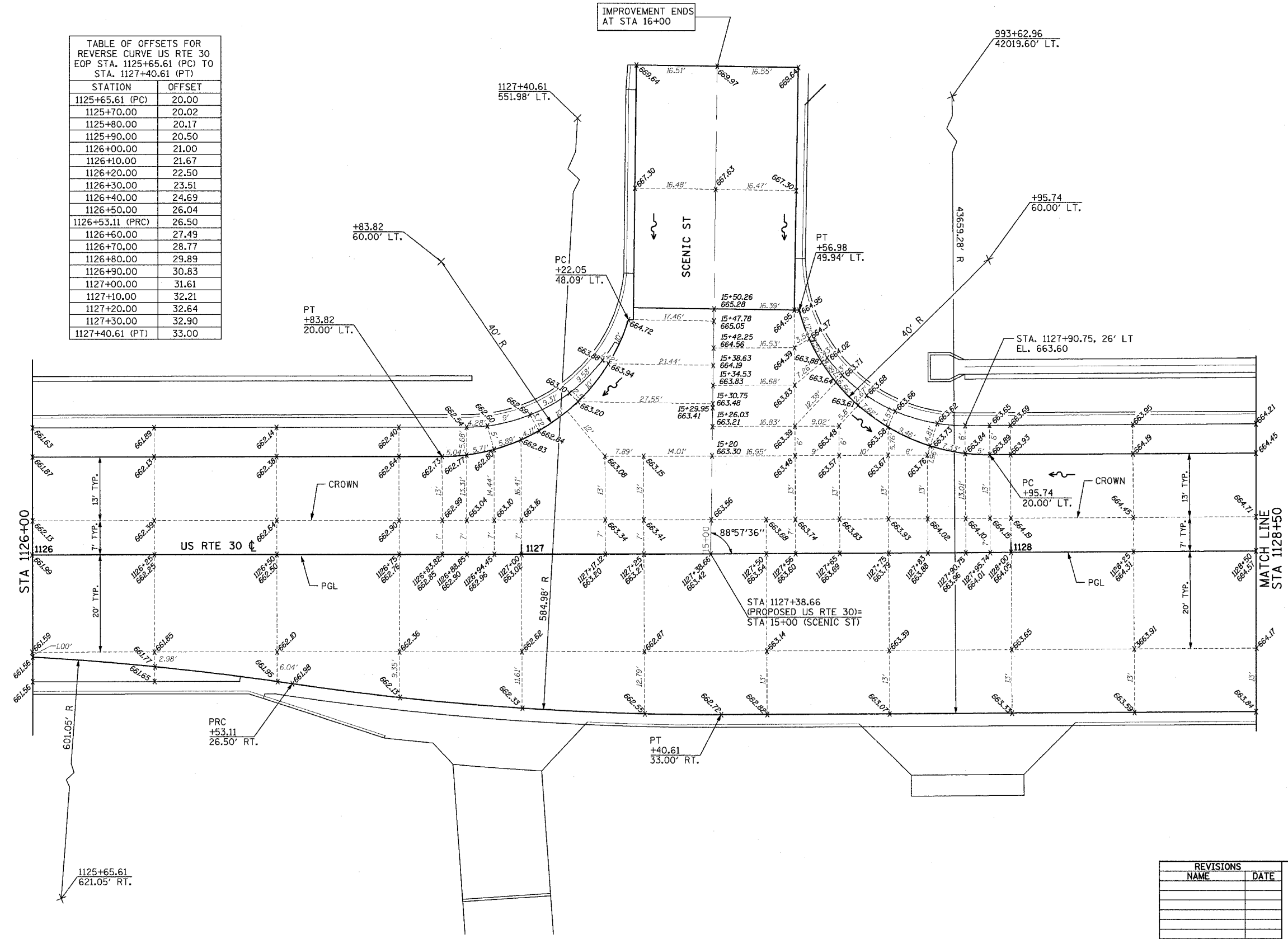


TABLE OF OFFSETS FOR REVERSE CURVE US RTE 30 EOP STA. 1125+65.61 (PC) TO STA. 1127+40.61 (PT)

STATION	OFFSET
1125+65.61 (PC)	20.00
1125+70.00	20.02
1125+80.00	20.17
1125+90.00	20.50
1126+00.00	21.00
1126+10.00	21.67
1126+20.00	22.50
1126+30.00	23.51
1126+40.00	24.69
1126+50.00	26.04
1126+53.11 (PRC)	26.50
1126+60.00	27.49
1126+70.00	28.77
1126+80.00	29.89
1126+90.00	30.83
1127+00.00	31.61
1127+10.00	32.21
1127+20.00	32.64
1127+30.00	32.90
1127+40.61 (PT)	33.00



NOTES:

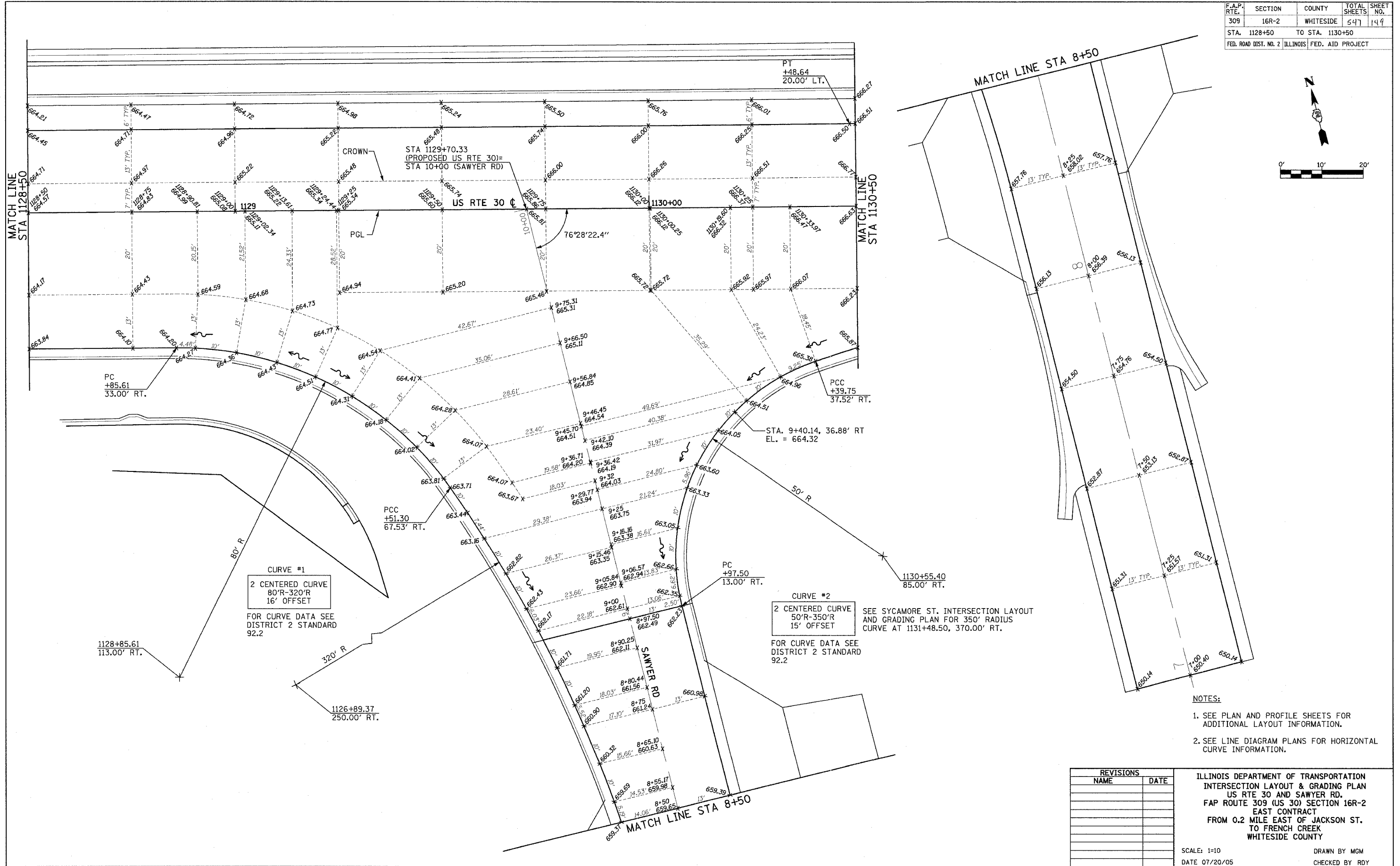
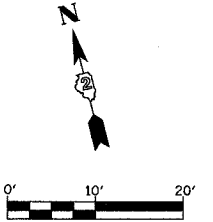
1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
2. SEE LINE DIAGRAM PLANS FOR HORIZONTAL CURVE INFORMATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION LAYOUT & GRADING PLAN
 US RTE 30 AND SCENIC ST.
 FAP ROUTE 309 (US 30) SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=10
 DATE 07/20/05
 DRAWN BY MCM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	149
STA. 1128+50		TO STA. 1130+50		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



CURVE #1
 2 CENTERED CURVE
 80'R-320'R
 16' OFFSET
 FOR CURVE DATA SEE
 DISTRICT 2 STANDARD
 92.2

CURVE #2
 2 CENTERED CURVE
 50'R-350'R
 15' OFFSET
 FOR CURVE DATA SEE
 DISTRICT 2 STANDARD
 92.2

SEE SYCAMORE ST. INTERSECTION LAYOUT
 AND GRADING PLAN FOR 350' RADIUS
 CURVE AT 1131+48.50, 370.00' RT.

- NOTES:**
1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
 2. SEE LINE DIAGRAM PLANS FOR HORIZONTAL CURVE INFORMATION.

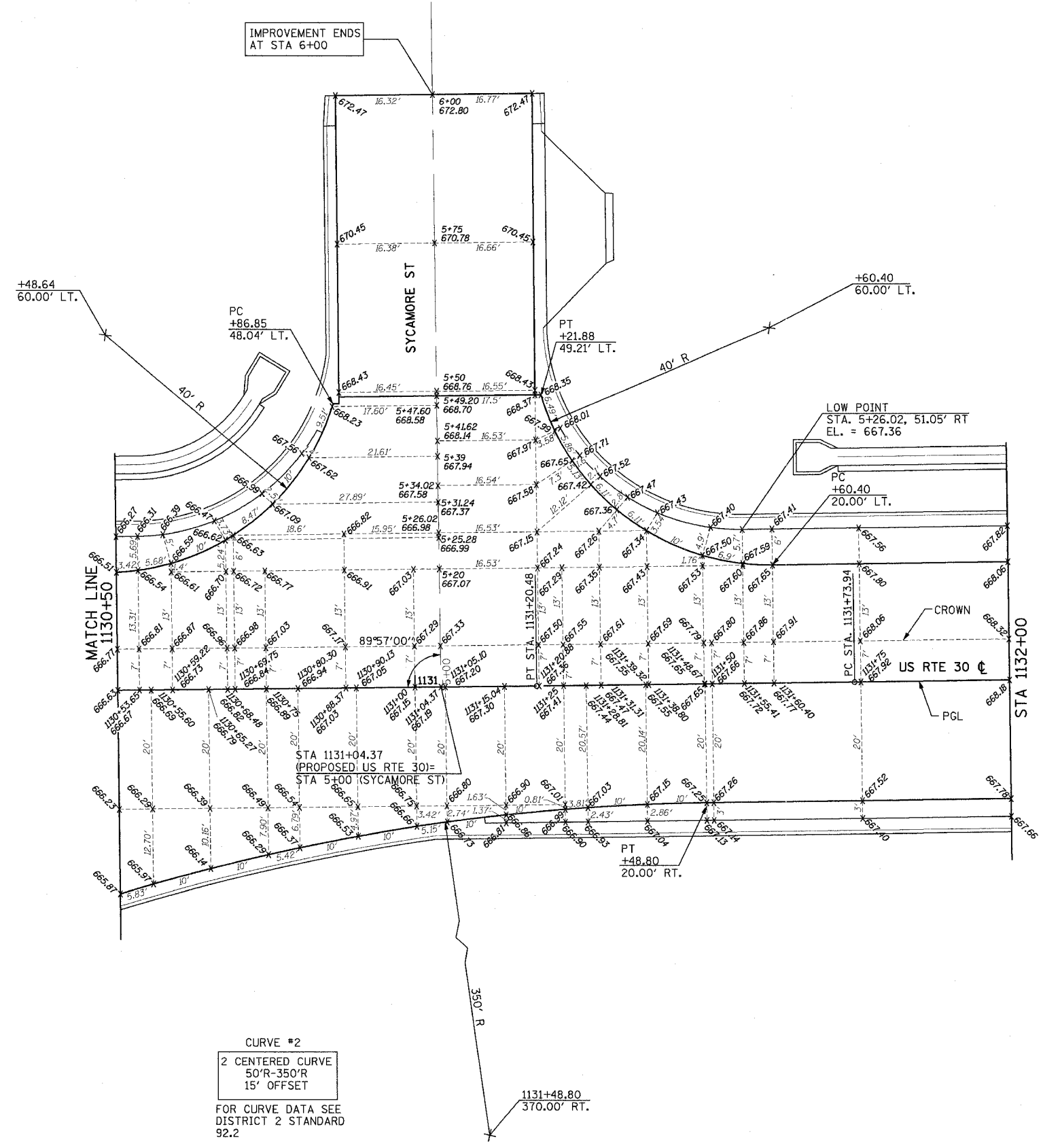
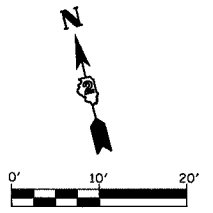
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION LAYOUT & GRADING PLAN
 US RTE 30 AND SAWYER RD.
 FAP ROUTE 309 (US 30) SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK
 WHITESIDE COUNTY

SCALE: 1=10
 DATE 07/20/05

DRAWN BY MGM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	150
STA. 1130+50		TO STA. 1132+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



CURVE #2
 2 CENTERED CURVE
 50'R-350'R
 15' OFFSET

FOR CURVE DATA SEE
 DISTRICT 2 STANDARD
 92.2

SEE SAWYER RD. INTERSECTION LAYOUT
 AND GRADING PLAN FOR 50' RADIUS
 CURVE AT 1130+55.40, 85.00' RT.

NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
2. SEE LINE DIAGRAM PLANS FOR HORIZONTAL CURVE INFORMATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION LAYOUT & GRADING PLAN
 US RTE 30 AND SYCAMORE ST.
 FAP ROUTE 309 (US 30) SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

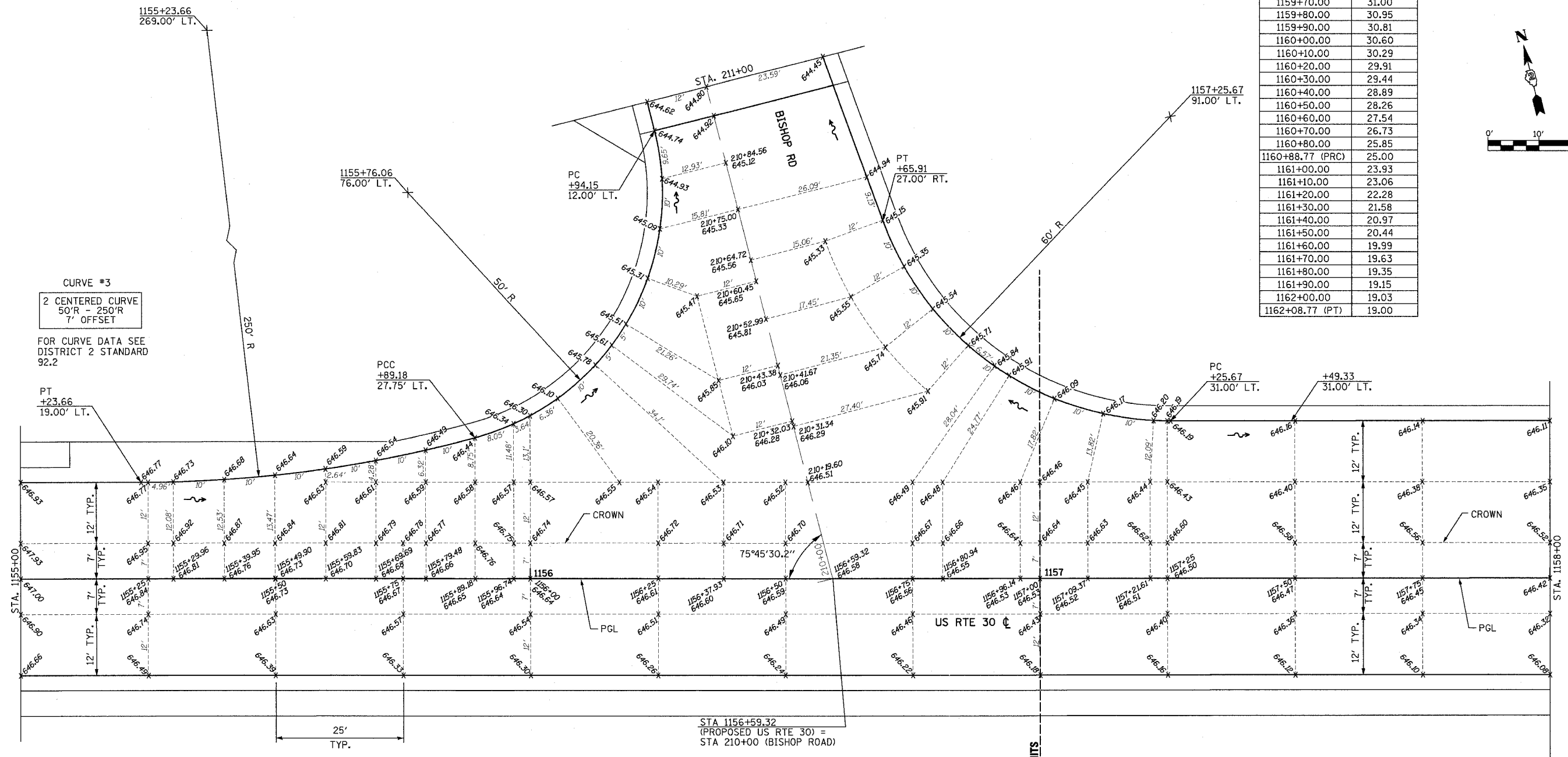
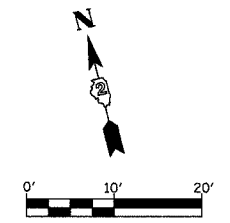
SCALE: 1"=10'
 DATE 07/20/05

DRAWN BY MCM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	151
STA. 1155+00		TO STA. 1158+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

TABLE OF OFFSETS FOR REVERSE CURVE US RTE 30 EOP STA. 1159+68.77 (PC) TO STA. 1162+08.77 (PT)

STATION	OFFSET
1159+68.77 (PC)	31.00
1159+70.00	31.00
1159+80.00	30.95
1159+90.00	30.81
1160+00.00	30.60
1160+10.00	30.29
1160+20.00	29.91
1160+30.00	29.44
1160+40.00	28.89
1160+50.00	28.26
1160+60.00	27.54
1160+70.00	26.73
1160+80.00	25.85
1160+88.77 (PRC)	25.00
1161+00.00	23.93
1161+10.00	23.06
1161+20.00	22.28
1161+30.00	21.58
1161+40.00	20.97
1161+50.00	20.44
1161+60.00	19.99
1161+70.00	19.63
1161+80.00	19.35
1161+90.00	19.15
1162+00.00	19.03
1162+08.77 (PT)	19.00



CURVE #3
 2 CENTERED CURVE
 50'R - 250'R
 7' OFFSET
 FOR CURVE DATA SEE
 DISTRICT 2 STANDARD
 92.2

- NOTES:**
1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
 2. SEE LINE DIAGRAM PLANS FOR HORIZONTAL CURVE INFORMATION.

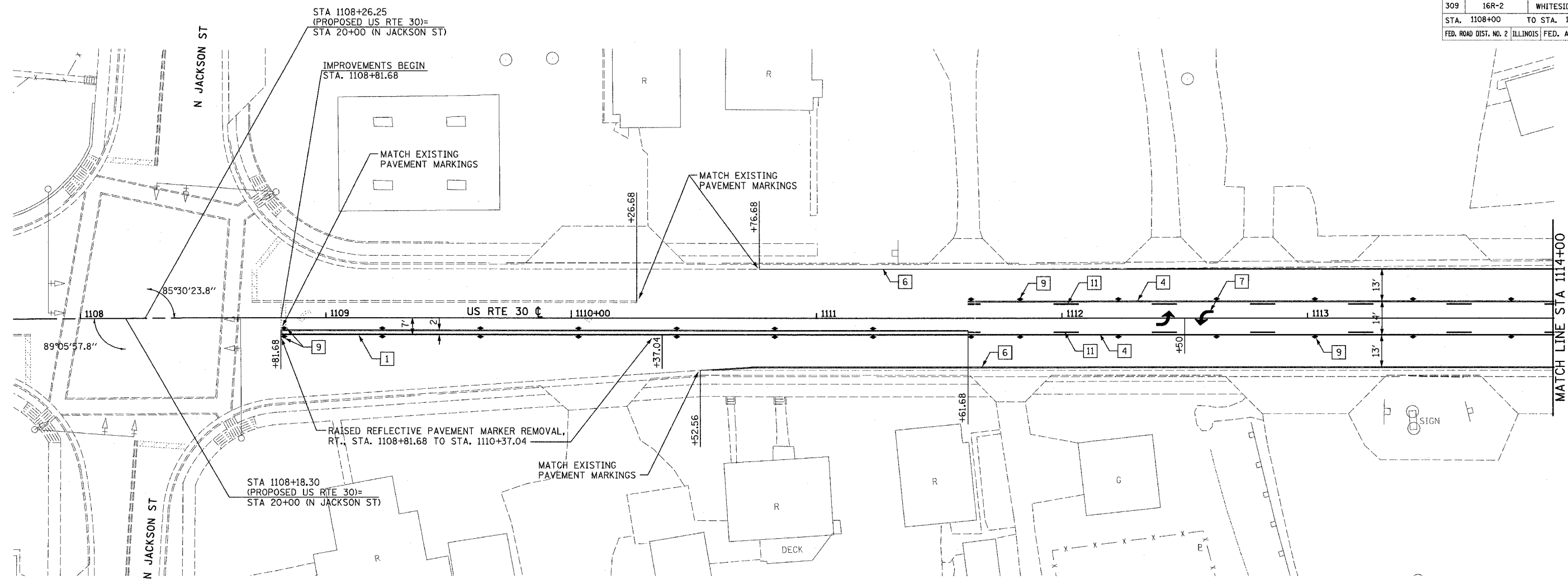
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION LAYOUT & GRADING PLAN
 US RTE 30 AND BISHOP RD.
 FAP ROUTE 309 (US 30) SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=10'
 DATE 07/21/05

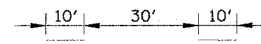
DRAWN BY MGM
 CHECKED BY ROY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	152
STA. 1108+00		TO STA. 1114+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



LEGEND

- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ► RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH



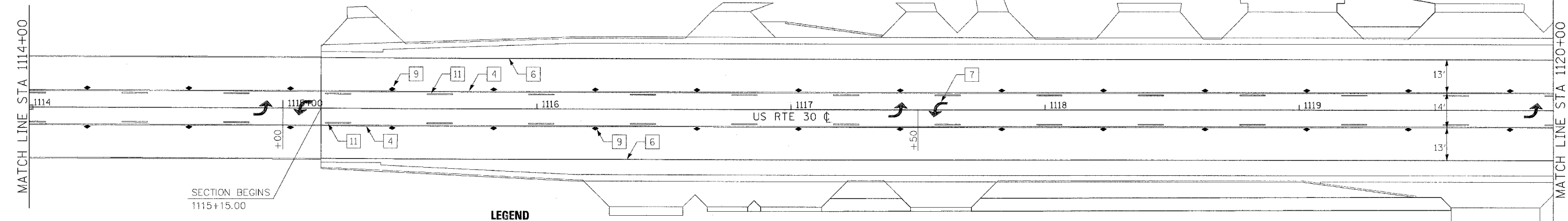
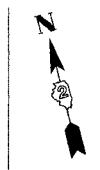
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE 07/21/05

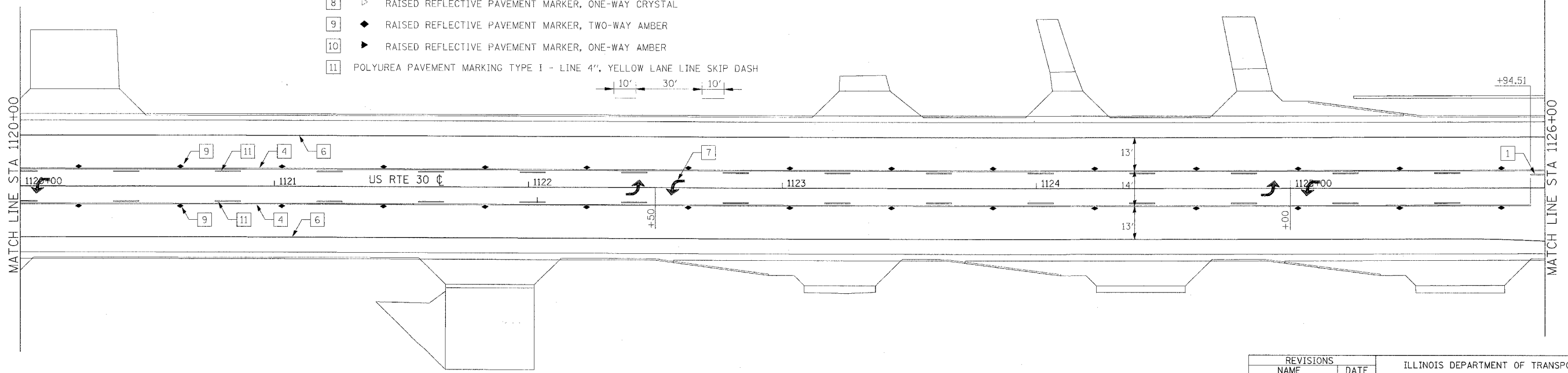
DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	153
STA. 1114+00		TO STA. 1126+00		
FED. ROAD DIST. NO. 2		ILLINOIS		FED. AID PROJECT



LEGEND

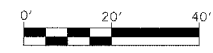
- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH



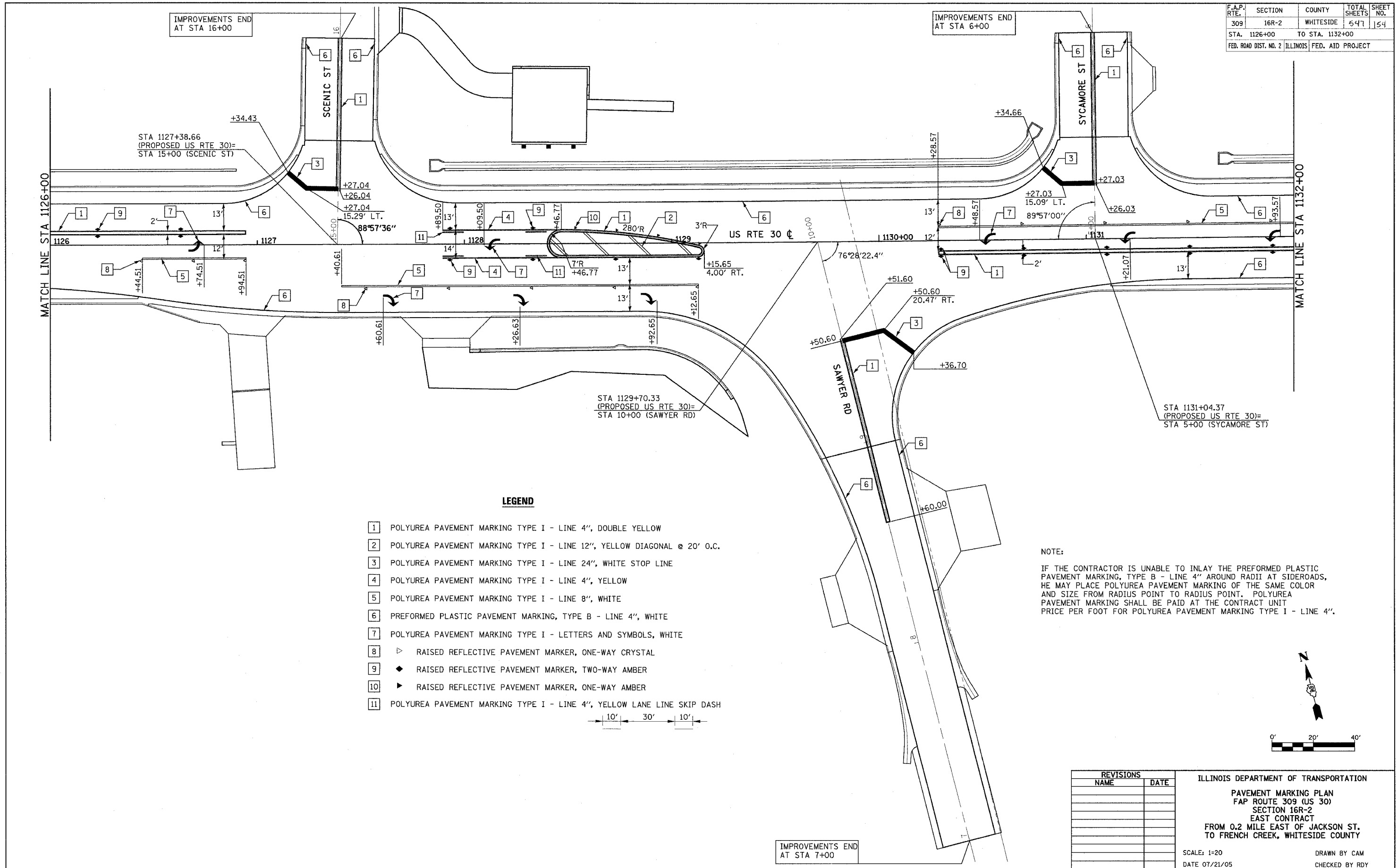
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=20'
 DATE 07/21/05
 DRAWN BY CAM
 CHECKED BY DY

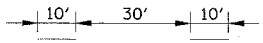


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	647	154
STA. 1126+00		TO STA. 1132+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

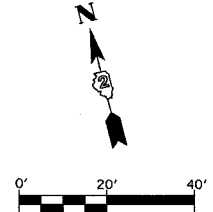


LEGEND

- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ▶ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH



NOTE:
IF THE CONTRACTOR IS UNABLE TO INLAY THE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" AROUND RADII AT SIDEROADS, HE MAY PLACE POLYUREA PAVEMENT MARKING OF THE SAME COLOR AND SIZE FROM RADIUS POINT TO RADIUS POINT. POLYUREA PAVEMENT MARKING SHALL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR POLYUREA PAVEMENT MARKING TYPE I - LINE 4".



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
FAP ROUTE 309 (US 30)
SECTION 16R-2
EAST CONTRACT
FROM 0.2 MILE EAST OF JACKSON ST.
TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
DATE 07/21/05
DRAWN BY CAM
CHECKED BY RDY

IMPROVEMENTS END AT STA 7+00

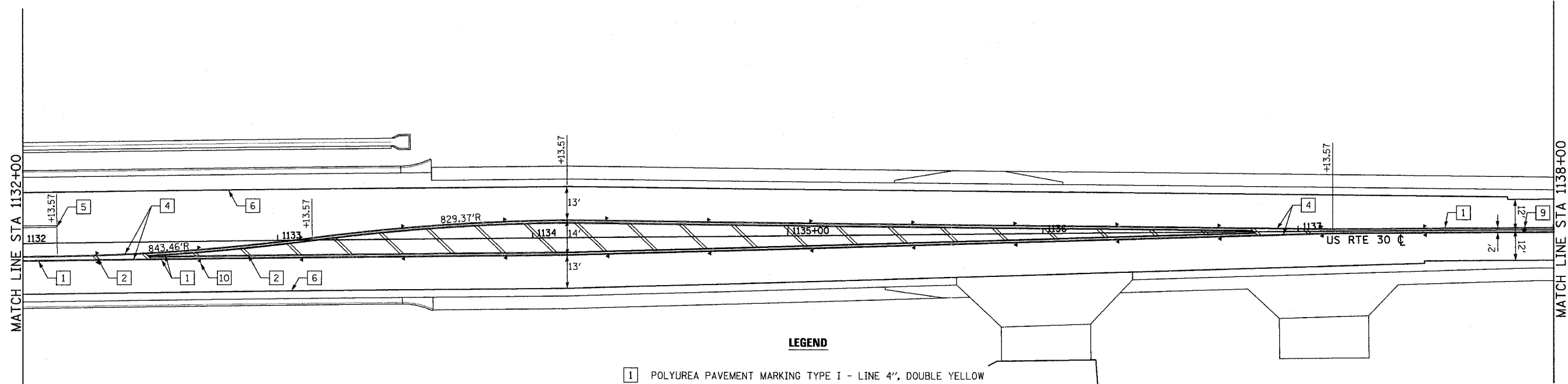
IMPROVEMENTS END AT STA 16+00

IMPROVEMENTS END AT STA 6+00

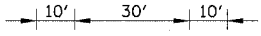
MATCH LINE STA 1126+00

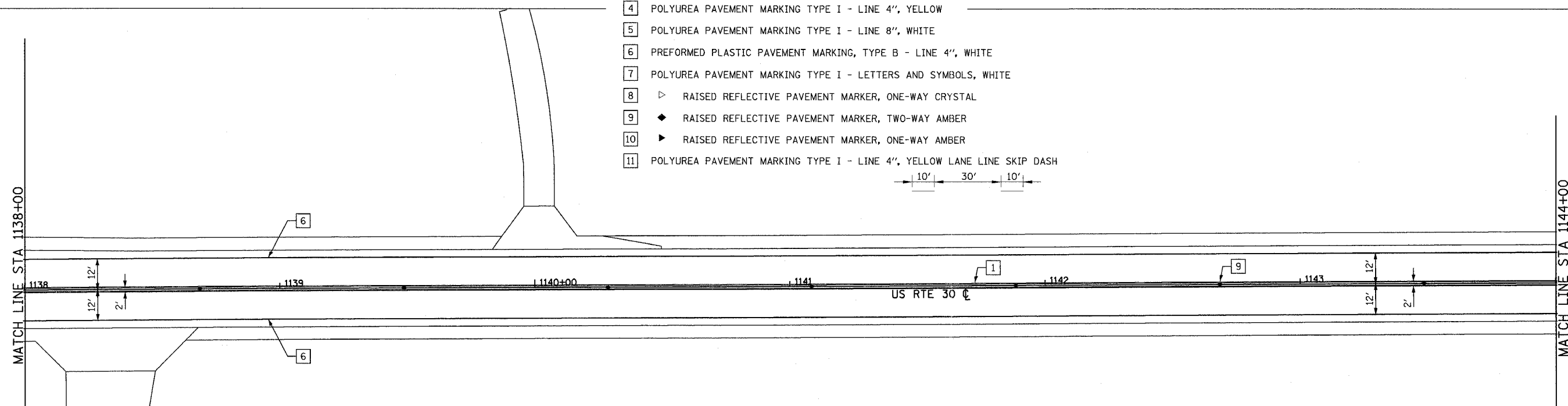
MATCH LINE STA 1132+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	165
STA. 1132+00		TO STA. 1144+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



LEGEND

- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ▶ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH


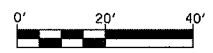


REVISIONS	
NAME	DATE

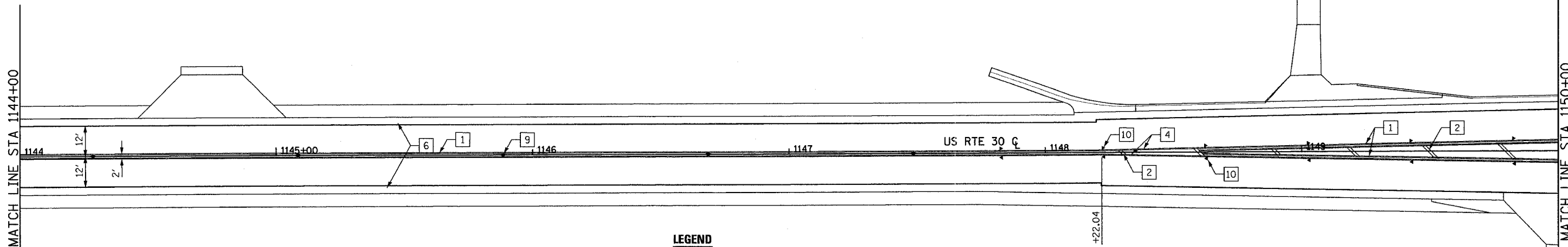
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1"=20'
 DATE 10/13/05

DRAWN BY BRD
 CHECKED BY RDY

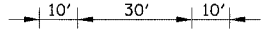


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	156
STA. 1144+00		TO STA. 1156+00		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				



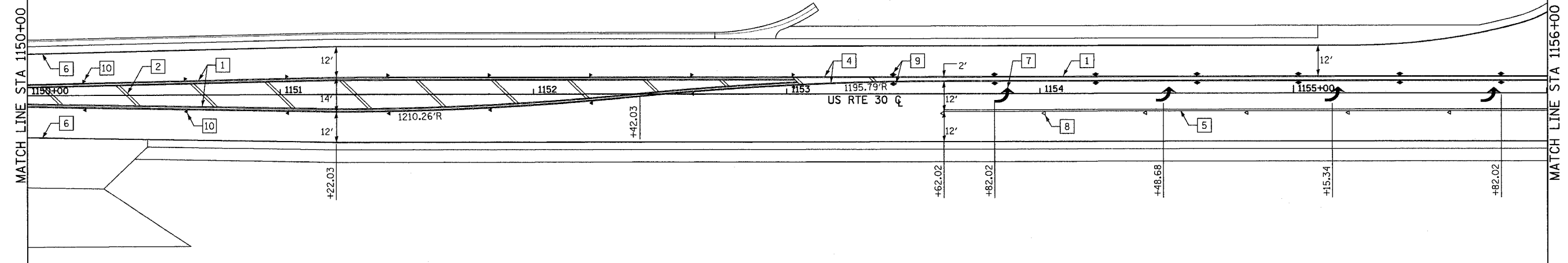
LEGEND

- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ▶ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH



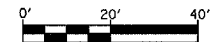
NOTE:

IF THE CONTRACTOR IS UNABLE TO INLAY THE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" AROUND RADII AT SIDEROADS, HE MAY PLACE POLYUREA PAVEMENT MARKING OF THE SAME COLOR AND SIZE FROM RADIUS POINT TO RADIUS POINT. POLYUREA PAVEMENT MARKING SHALL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR POLYUREA PAVEMENT MARKING TYPE I - LINE 4".



REVISIONS	
NAME	DATE

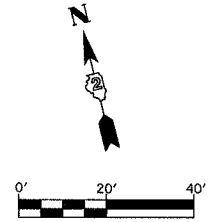
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY



SCALE: 1=20
 DATE 07/21/05

DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	157
STA. 1156+00		TO STA. 1162+00		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

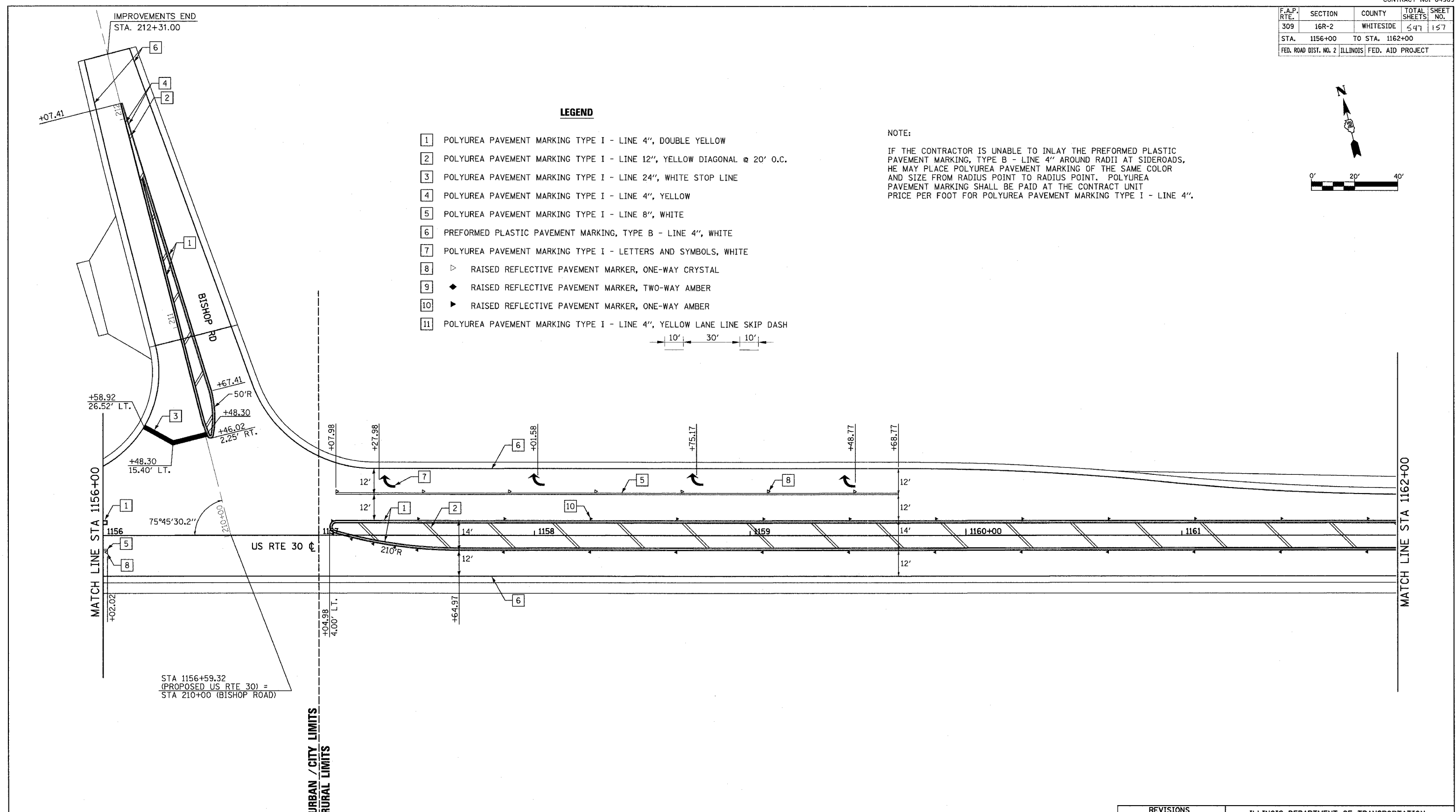
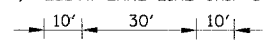


LEGEND

- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
- 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
- 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
- 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
- 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
- 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
- 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
- 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
- 10 ▶ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
- 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH

NOTE:

IF THE CONTRACTOR IS UNABLE TO INLAY THE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" AROUND RADII AT SIDEROADS, HE MAY PLACE POLYUREA PAVEMENT MARKING OF THE SAME COLOR AND SIZE FROM RADIUS POINT TO RADIUS POINT. POLYUREA PAVEMENT MARKING SHALL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR POLYUREA PAVEMENT MARKING TYPE I - LINE 4".

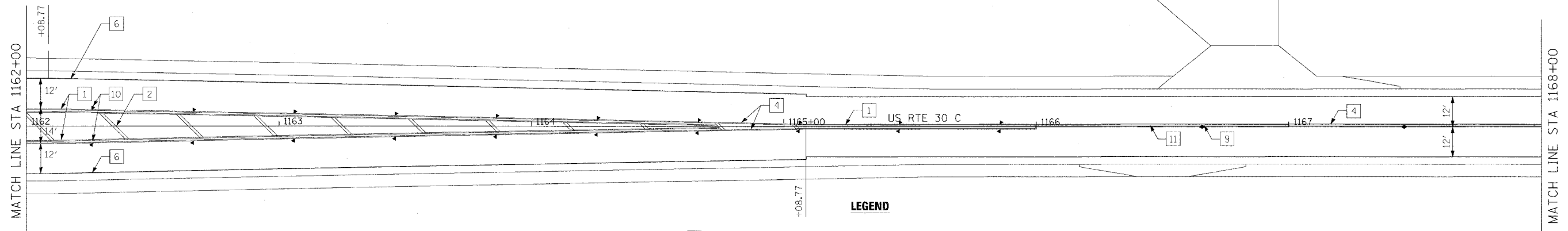


REVISIONS	
NAME	DATE

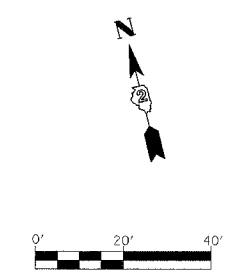
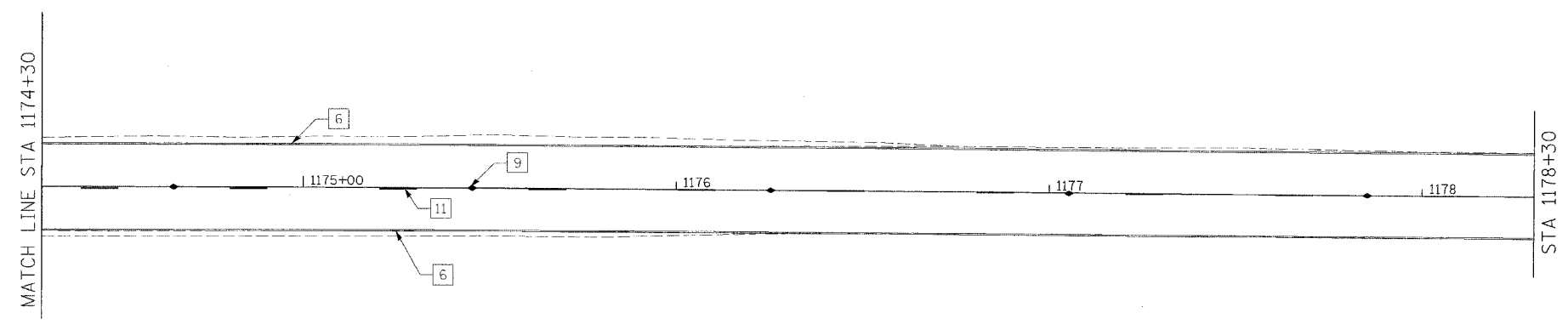
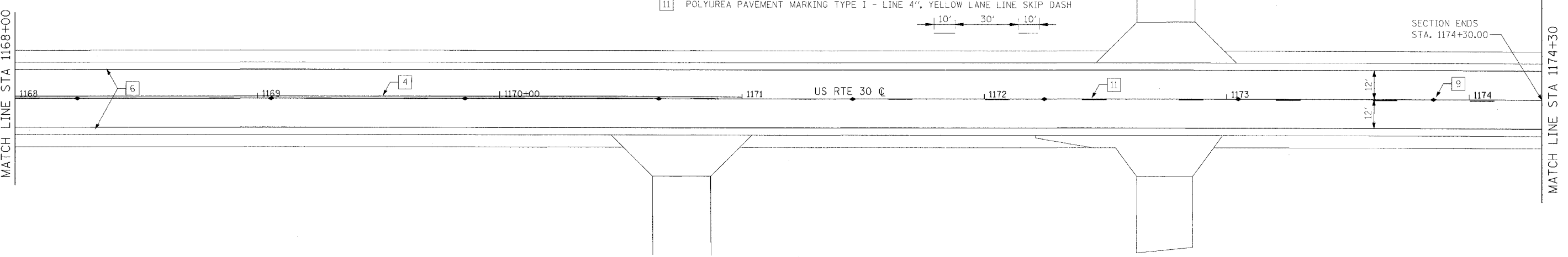
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE 07/21/05
 DRAWN BY CAM
 CHECKED BY RDY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	138
STA. 1162+00		TO STA. 1178+30		
FED. ROAD DIST. NO. 2		ILLINOIS		FED. AID PROJECT



- LEGEND**
- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", DOUBLE YELLOW
 - 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 12", YELLOW DIAGONAL @ 20' O.C.
 - 3 POLYUREA PAVEMENT MARKING TYPE I - LINE 24", WHITE STOP LINE
 - 4 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW
 - 5 POLYUREA PAVEMENT MARKING TYPE I - LINE 8", WHITE
 - 6 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4", WHITE
 - 7 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS, WHITE
 - 8 ▷ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL
 - 9 ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER
 - 10 ▶ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER
 - 11 POLYUREA PAVEMENT MARKING TYPE I - LINE 4", YELLOW LANE LINE SKIP DASH



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING PLAN
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: 1=20
 DATE 07/21/05
 DRAWN BY CAM
 CHECKED BY RDY

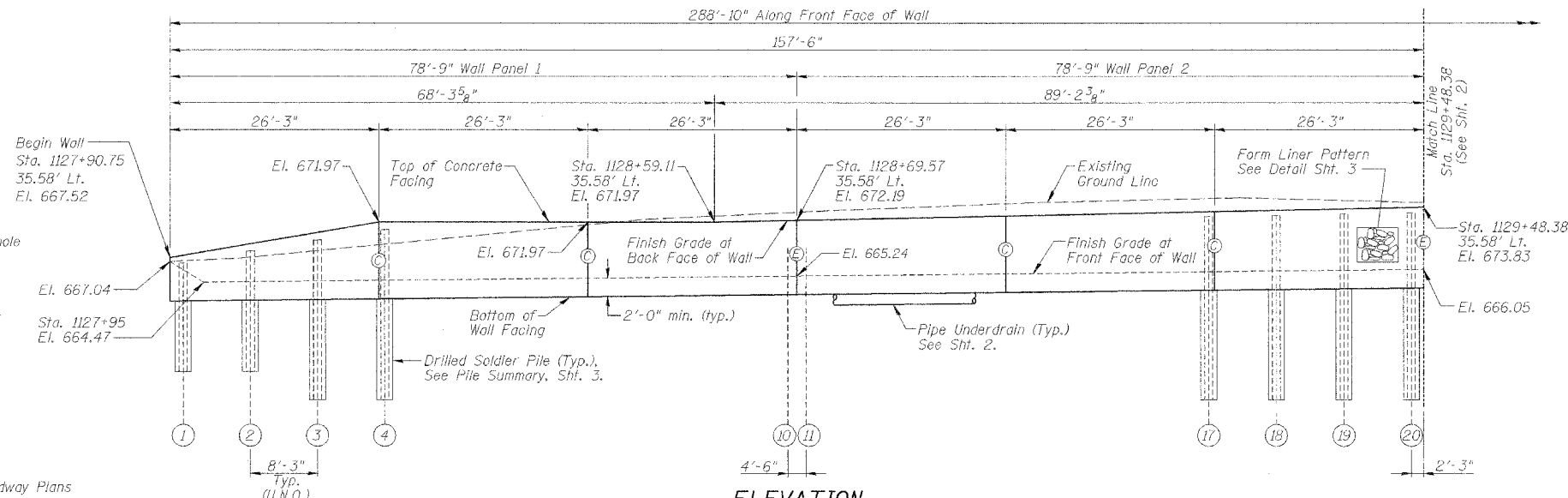
Bench Mark: Chiseled "□" on Sign Station 1124+07.90, 49.2' Rt. El. = 661.28
 Existing Structure: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

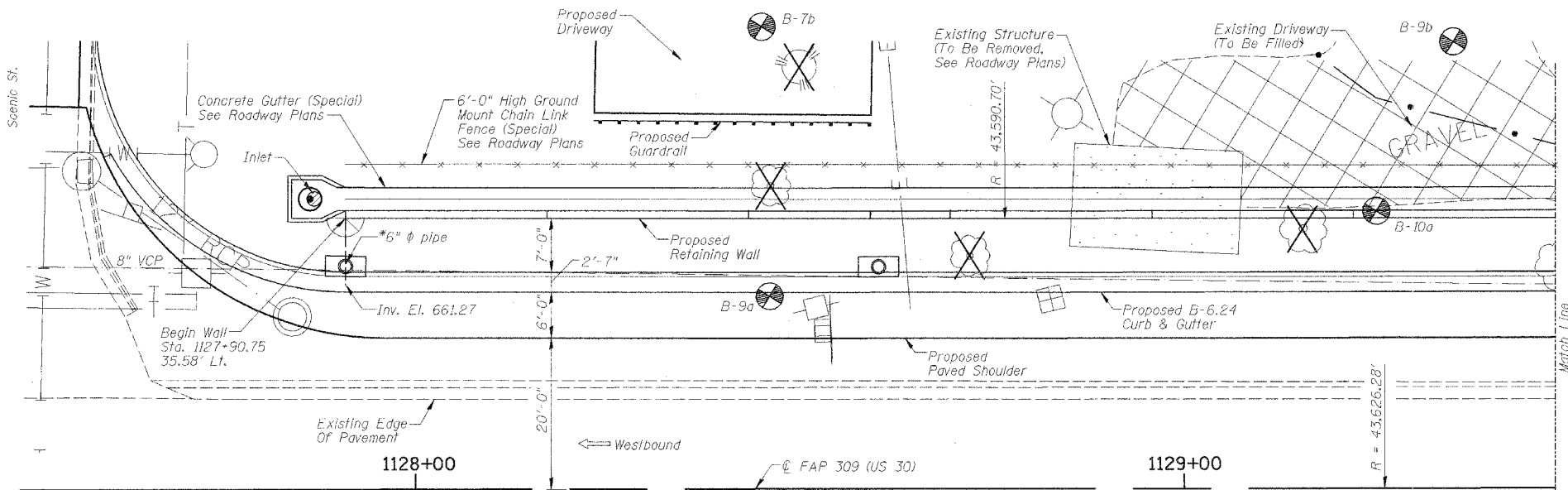
F.A.P. 309	16R-2	WHITESIDE	547	154	SHEET NO. 1
Contract No. 64969					13 SHEETS

LEGEND

- Existing Roadway
- Sign Post
- Power Pole
- Light Pole
- Telephone Pole
- Telephone Splice Box
- Telephone Double Handhole
- Fire Hydrant
- Manhole
- Inlet
- Existing Sanitary Sewer
- Existing Telephone
- Existing Electric
- Existing Water Main
- Existing Storm Sewer
- Construction Joint
- Expansion Joint
- Pile Designation
- Soil Borings
- Tree Removal. See Roadway Plans

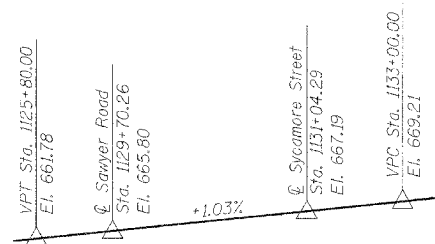


ELEVATION
 (Looking North)



* 6" φ non-perforated pipe from beginning of wall underdrain to inlet Sta. 1127+90.75, 26.00' Lt. Cost included in pay item Pipe Underdrains for Structures, 4".

PLAN



PROFILE GRADE U.S. RTE. 30
 (Along C of Roadway)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications For Highway Bridges

DESIGN STRESSES

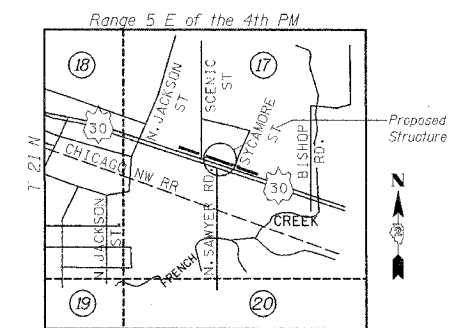
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 PSI (reinforcement)
 fy = 36,000 PSI (M270 Gr. 36 structural steel)

CURVE DATA

P1 STA. = 1127+20.50
 Δ = 1° 03' 02.29" (LT)
 D = 0° 07' 52.80"
 R = 43,626.28'
 T = 400.00'
 L = 799.97'
 E = 1.83'
 P.C. STA. = 1123+20.50
 P.T. STA. = 1131+20.48

INDEX OF SHEETS

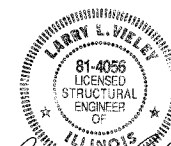
Sht. #	Title
1	General Plan
2	General Plan & Section
3	General Notes, Details, & Total Bill of Material
4	Soldier Pile Wall Panel 1
5	Soldier Pile Wall Panel 2
6	Soldier Pile Wall Panel 3
7	Soldier Pile Wall Panel 4
8	Concrete Facing for Soldier Pile Walls
9-13	Boring Logs



LOCATION SKETCH

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph C. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



Larry L. Vieley
 Illinois Licensed Structural Engineer No. 081-004056
 Lic. Expires: 11/30/06

12/08/05
 Date

GENERAL PLAN
 RETAINING WALL NO. 1
 U.S. RTE. 30 (LINCOLN HIGHWAY)
 BETWEEN SCENIC ST. & SYCAMORE ST.
 F.A.P. ROUTE 309 SECTION 16 R-2
 WHITESIDE COUNTY
 STA. 1127+90.75 TO
 STA. 1130+75.26 (LT.)
 STRUCTURE NO. 098-7001

STS CONSULTANTS
 111 NE Jefferson Ave.
 Peoria, Illinois 61602
 Ph: (309) 676-8464
 Fax: (309) 676-5445
 IL Design Firm Reg. No. 184-001518

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

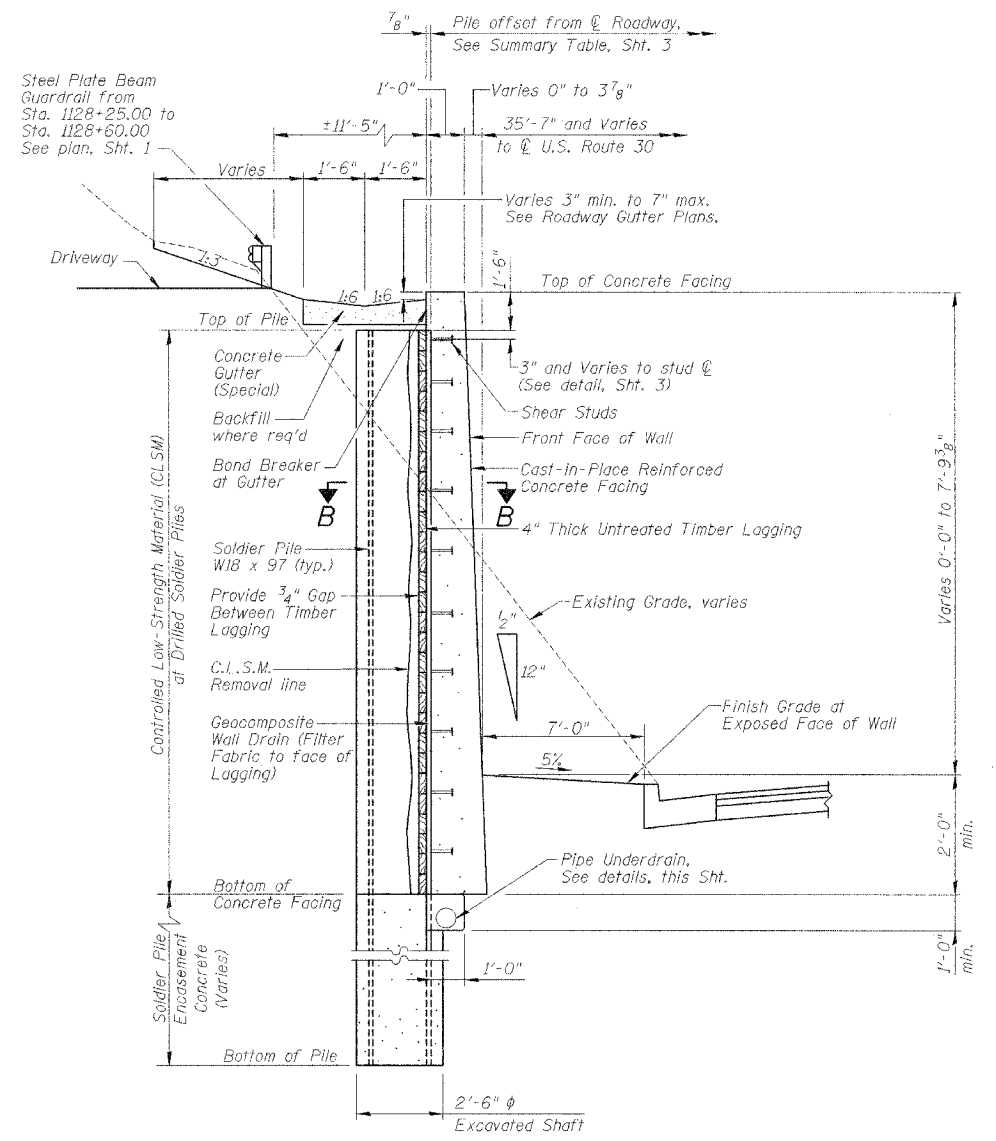
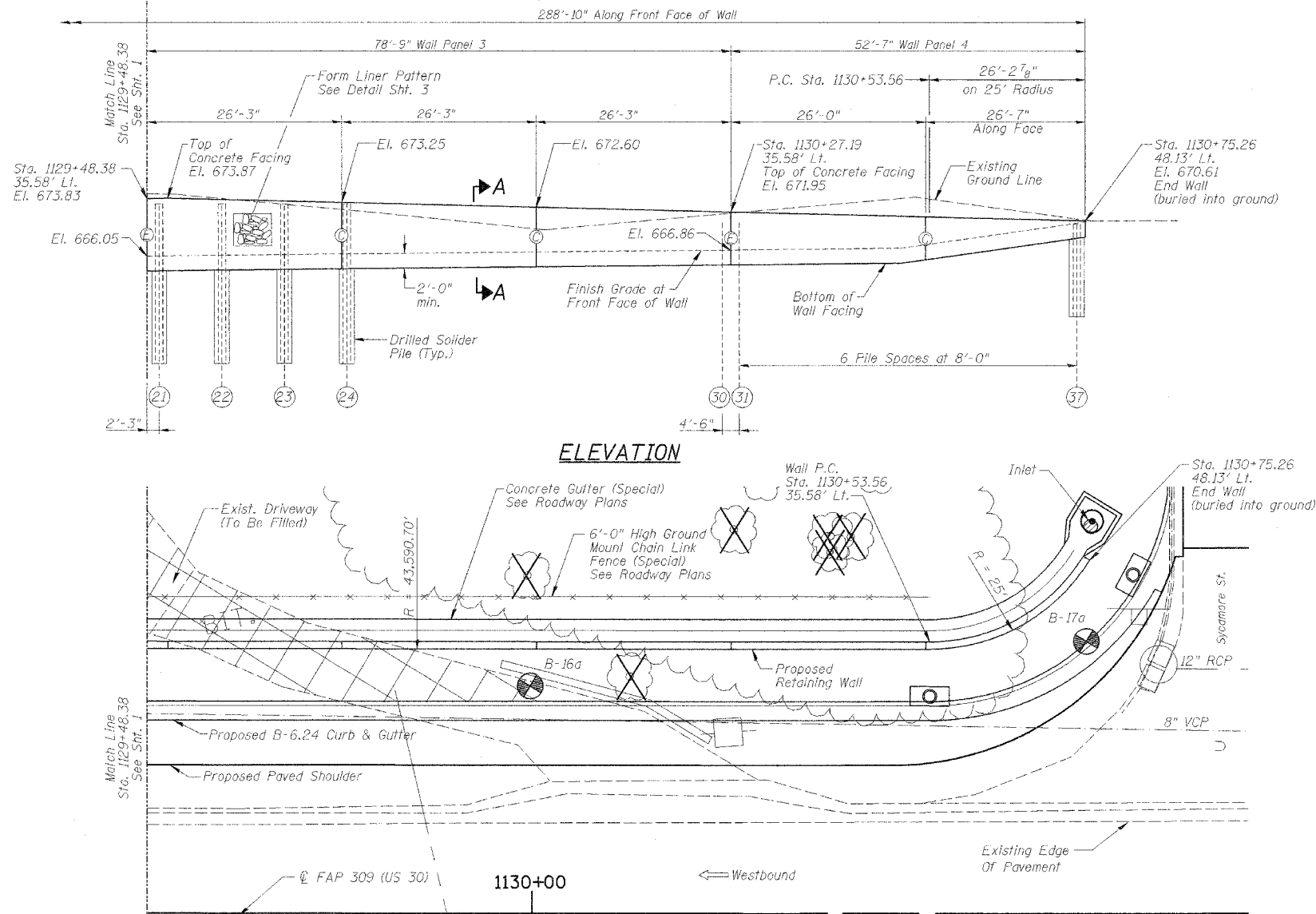
Notes:

- Expansion joints shall be provided at 78'-9" intervals, U.N.O.
- Construction joints shall be provided at 26'-3" intervals, U.N.O. Reinforcing steel shall be placed continuously through construction joints.
- All offsets shown to front face of wall at finish grade level from C of U.S. Rte. 30.

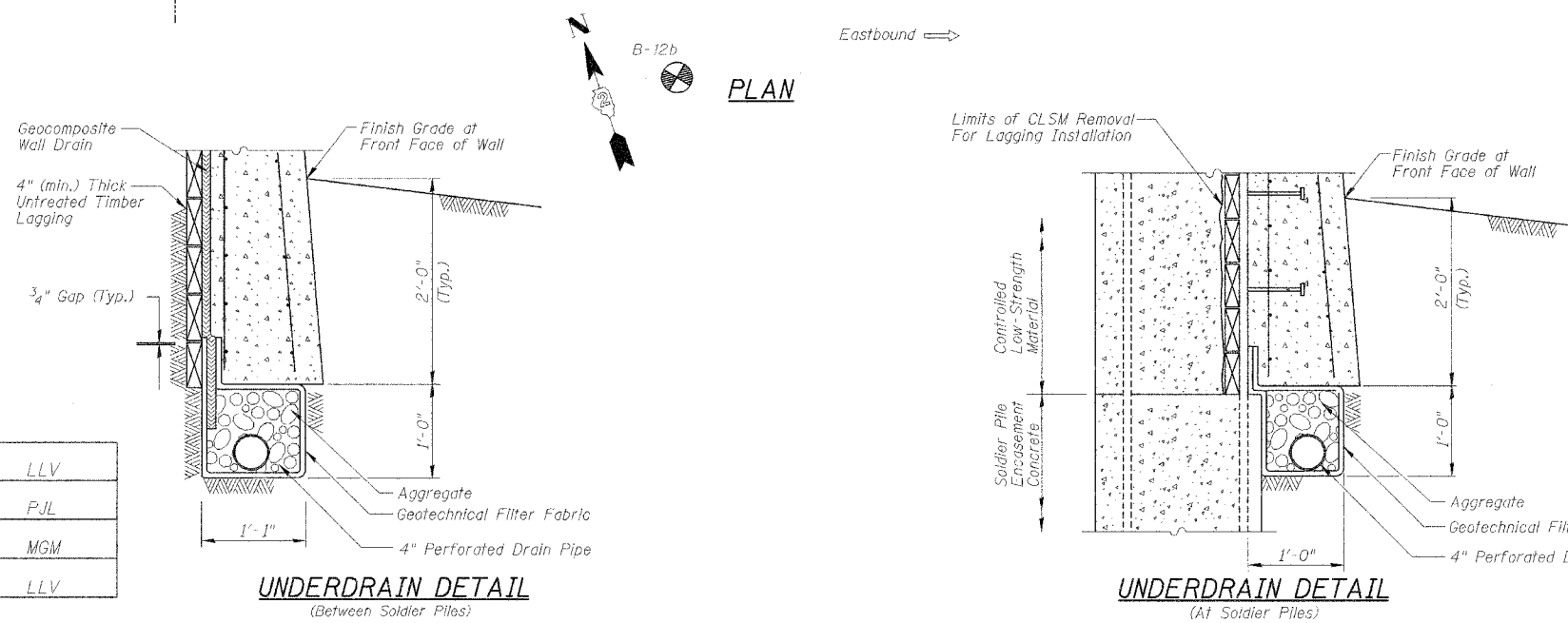
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 309	16R-2	WHITESIDE	641	160	13 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract No. 64969



SECTION A-A
RETAINING WALL TYPICAL SECTION
See Sht. 3 for Section B-B.



DESIGNED	LLV
CHECKED	P.JL
DRAWN	MGM
CHECKED	LLV

Note:
See Special Provision for Pipe Underdrains for Structures, 4'.

GENERAL PLAN & SECTION
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1129+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
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FAX (309) 676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

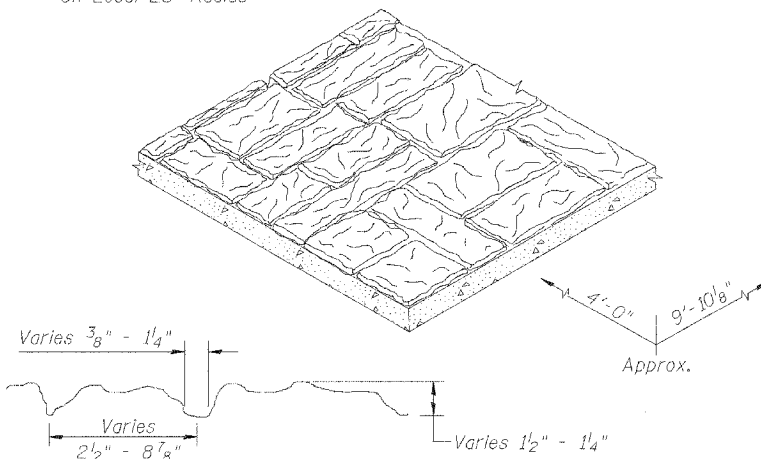
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	641	161
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3
13 SHEETS

SOLDIER PILE SUMMARY

Pile #	Station	Offset (Lt.) (ft.)	Top of Pile Elevation (ft.)	Bottom of Pile Elevation (ft.)	Length (ft.)
1	1127+93.00	36.65	666.40	650.00	16.40
2	1128+01.26	36.71	667.80	650.00	17.80
3	1128+09.52	36.76	669.20	648.00	21.20
4	1128+17.77	36.81	670.47	647.00	23.47
5	1128+26.03	36.82	670.47	647.00	23.47
6	1128+34.29	36.82	670.47	647.00	23.47
7	1128+42.54	36.80	670.47	647.00	23.47
8	1128+50.80	36.80	670.47	647.00	23.47
9	1128+59.06	36.80	670.47	647.00	23.47
10	1128+67.31	36.80	670.64	647.00	23.64
11	1128+71.82	36.80	670.74	647.00	23.74
12	1128+80.08	36.80	670.91	647.00	23.91
13	1128+88.33	36.81	671.08	647.00	24.08
14	1128+96.59	36.81	671.26	647.00	24.26
15	1129+04.85	36.82	671.43	647.00	24.43
16	1129+13.10	36.82	671.60	647.00	24.60
17	1129+21.36	36.82	671.78	647.00	24.78
18	1129+29.62	36.83	671.95	647.00	24.95
19	1129+37.87	36.83	672.12	646.00	26.12
20	1129+46.12	36.83	672.29	646.00	26.29
21	1129+50.63	36.83	672.35	646.00	26.35
22	1129+58.89	36.82	672.15	646.00	26.15
23	1129+67.15	36.81	671.94	647.00	24.94
24	1129+75.41	36.80	671.74	647.00	24.74
25	1129+83.66	36.79	671.53	647.00	24.53
26	1129+91.92	36.77	671.33	650.00	21.33
27	1130+00.18	36.76	671.12	650.00	21.12
28	1130+08.43	36.75	670.92	650.00	20.92
29	1130+16.69	36.74	670.71	650.00	20.71
30	1130+24.95	36.73	670.51	650.00	20.51
31	1130+29.45	36.72	670.39	652.00	18.39
32	1130+37.46	36.71	670.19	652.00	18.19
33	1130+45.46	36.70	669.99	652.00	17.99
34	1130+53.47	36.67	669.78	654.00	15.78
*35	1130+60.99	37.81	669.58	654.00	15.58
*36	1130+67.81	41.26	669.38	660.00	9.38
*37	1130+73.19	46.67	669.18	660.00	9.18

* On Local 25' Radius



FORM LINER DETAIL
(See General Note 5)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n(E)	122	#5	28'-3"	—
h ₁ (E)	60	#5	26'-1"	—
h ₂ (E)	16	#5	28'-0"	—
h ₃ (E)	6	#5	26'-1"	—
h ₄ (E)	6	#5	25'-1"	—
v(E)	27	#5	13'-8"	—
v ₁ (E)	480	#5	3'-0"	—
v ₂ (E)	324	#5	8'-1"	—
v ₃ (E)	54	#5	6'-4"	—
v ₄ (E)	48	#5	5'-5"	—
v ₅ (E)	29	#5	7'-5"	—
v ₆ (E)	54	#5	7'-3"	—
ITEM	UNIT	TOTAL		
Reinforcement Bars, Epoxy Coated	Pound	11,890		
Concrete Structures	Cu. Yd.	99.8		
Finishing Soldier Piles, W18 x 97	Ft.	803.0		
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	3,941		
Stud Shear Connectors	Each	255		
Untreated Timber Lagging	Sq. Ft.	1,840		
Geocomposite Wall Drain	Sq. Yd.	164		
Pipe Underdrains for Structures, 4"	Ft.	296		
Structure Excavation	Cu. Yd.	70		

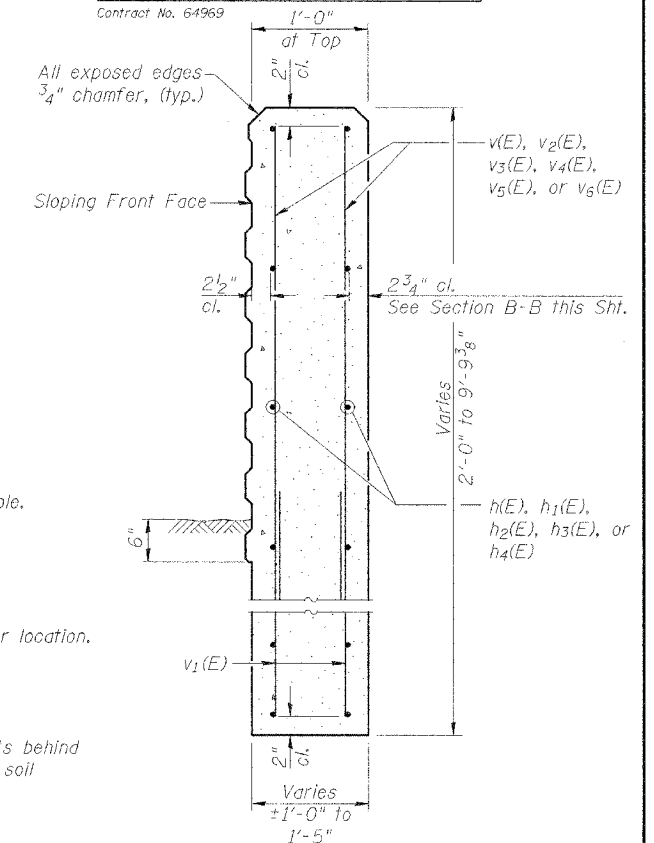
Reinforcement bars designated (E) shall be epoxy coated.

GENERAL NOTES

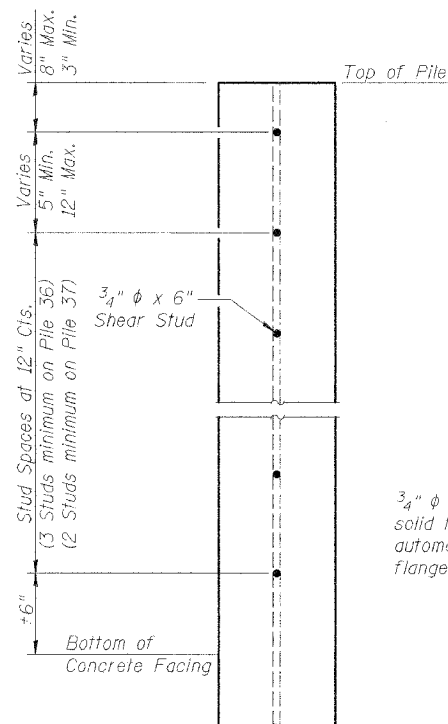
1. Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
2. The contractor is responsible for the design and performance of the timber lagging using no less than a 4" nominal rough-sawn thickness and timber with a minimum tabulated unit stress in bending (F_b) of 1,500 psi.
3. Stud shear connectors for the Soldier Piles may be shop or field welded.
4. All construction joints shall be bonded.
5. Form liners shall be used on the outside exposed vertical area of the retaining wall. The form liners shall have no reveal, extend 6" below grade, and shall simulate the appearance of a limestone facade as shown on the plans. The contractor shall prepare at the job site, a mock surface constructed of his proposed form liner for approval of the Engineer prior to ordering the quantity of form liner required to complete the project. The form liner will not be paid for separately, but shall be included in the contract unit price per Cubic Yard for Concrete Structures.

SEQUENCE OF CONSTRUCTION

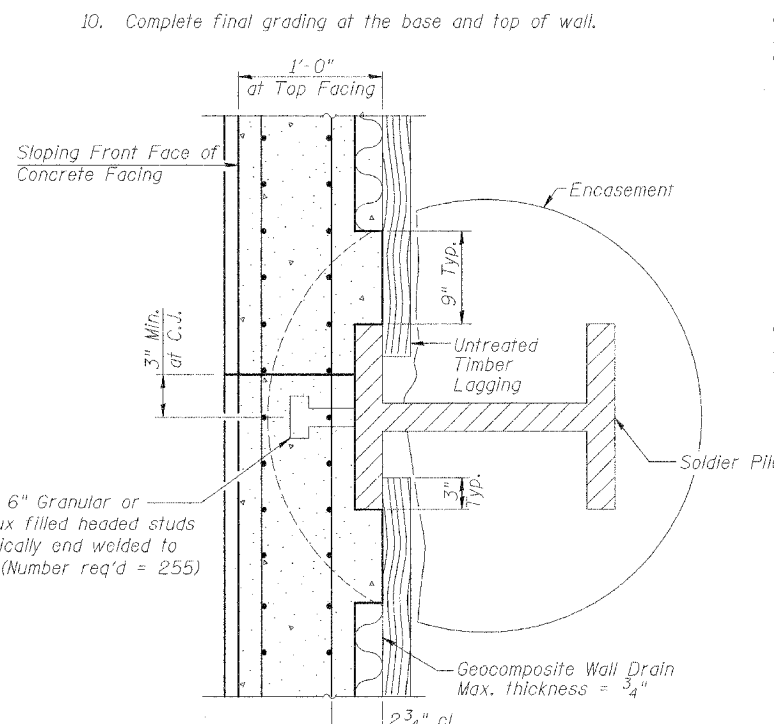
1. Establish working platform and drill shaft excavation for soldier pile to tip elevation shown on the Summary Table. The side walls of the shaft excavation shall be supported as required to prevent collapse.
2. Remove any loose material and excess water from shaft. If the water inflow is excessive or pumping causes side wall caving, allow water to stabilize so the the concrete can be placed by pump or tremie.
3. Set soldier piles in the shaft of excavation and brace to maintain proper pile position. See Summary Table for location.
4. Place Soldier Pile Encasement Concrete around soldier pile to the bottom of the Proposed Concrete Facing elevation and C.L.S.M. to the top of pile.
5. After all the concrete has attained required strength, excavate in front of wall in stages. Backfill in low spots behind wall. Simultaneous to the excavation, remove the C.L.S.M. at the face of the soldier piles and remove only enough soil necessary to place each timber lagging snug against excavated surface.
6. Complete untreated timber lagging placement to the depths shown on the plans.
7. Attach Geocomposite Wall Drain to cover the untreated timber lagging. See Section B-B, this sheet and Underdrain Details, Sht. 2.
8. Construct Pipe Underdrain by excavating a trench, lining it with fabric, placing a pipe and aggregate such that the Geocomposite Wall Drain is connected as shown on the plans.
9. Attach shear studs on soldier piles, set reinforcement, form and pour Concrete Facing.
10. Complete final grading at the base and top of wall.



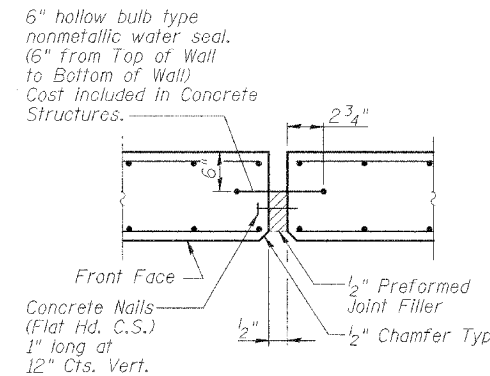
SECTION THRU CONCRETE FACING
SECTION C-C



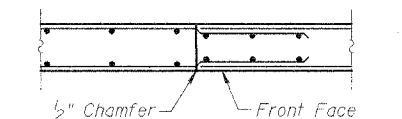
SHEAR STUD DETAIL



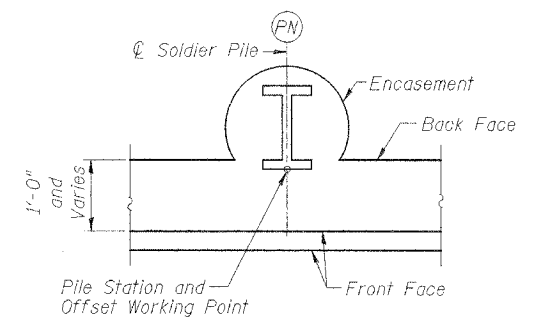
SECTION B-B



EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



SOLDIER PILE WORKING POINT

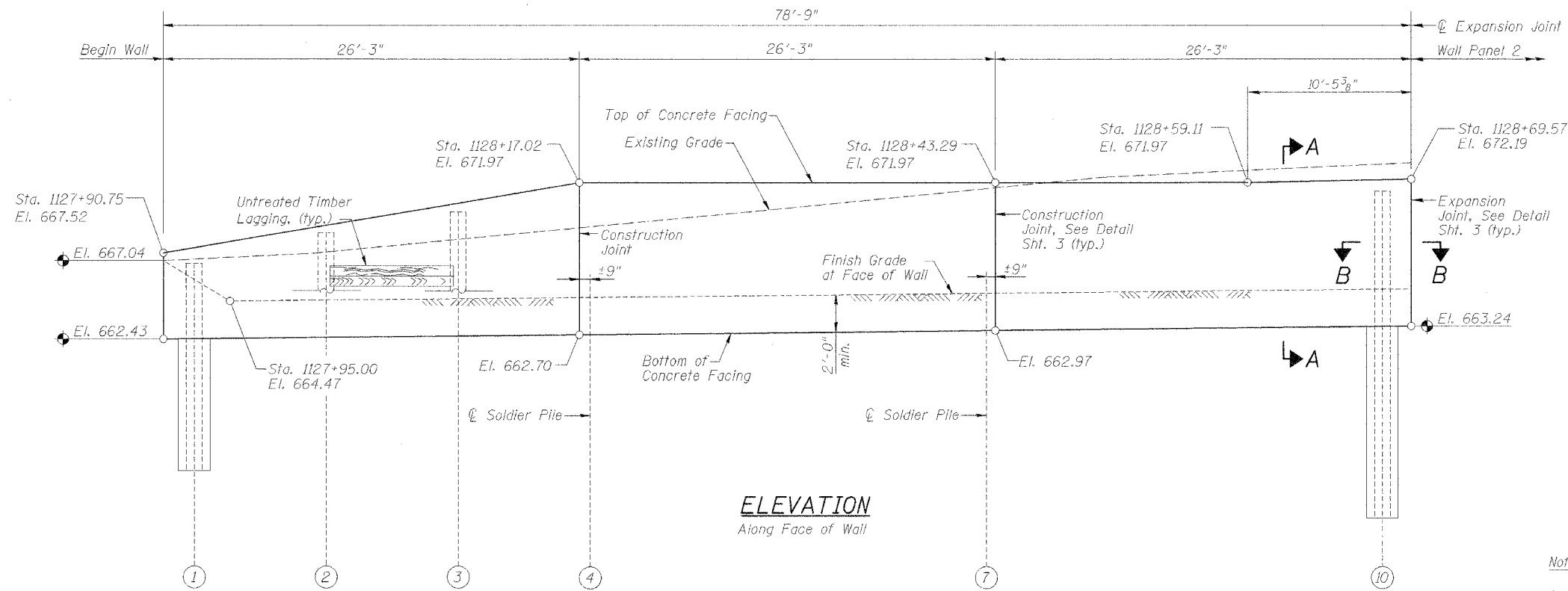
GENERAL NOTES, DETAILS, & TOTAL BILL OF MATERIAL
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph:(309)676-8484
FAX:(309)676-5445
IL Design Firm Reg. No. 184-001518

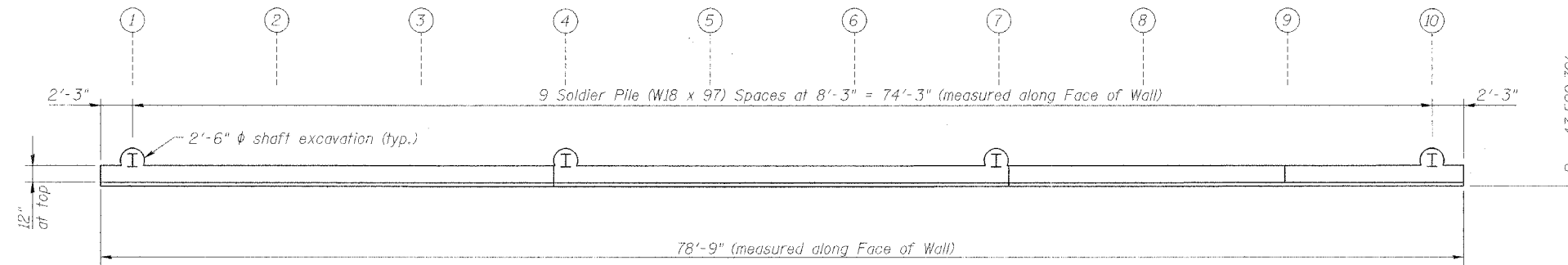
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	INCHES	SHEET NO.	SHEET NO. 4
F.A.P. 309	16R-2	WHITESIDE	547	162	13 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract No. 64969



ELEVATION
Along Face of Wall



PLAN



Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B & Pile Summary.
3. See Sht. 8 for Reinforcement.

DESIGNED	LLV
CHECKED	P.J.L.
DRAWN	MGM
CHECKED	LLV

SOLDIER PILE WALL PANEL 1
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

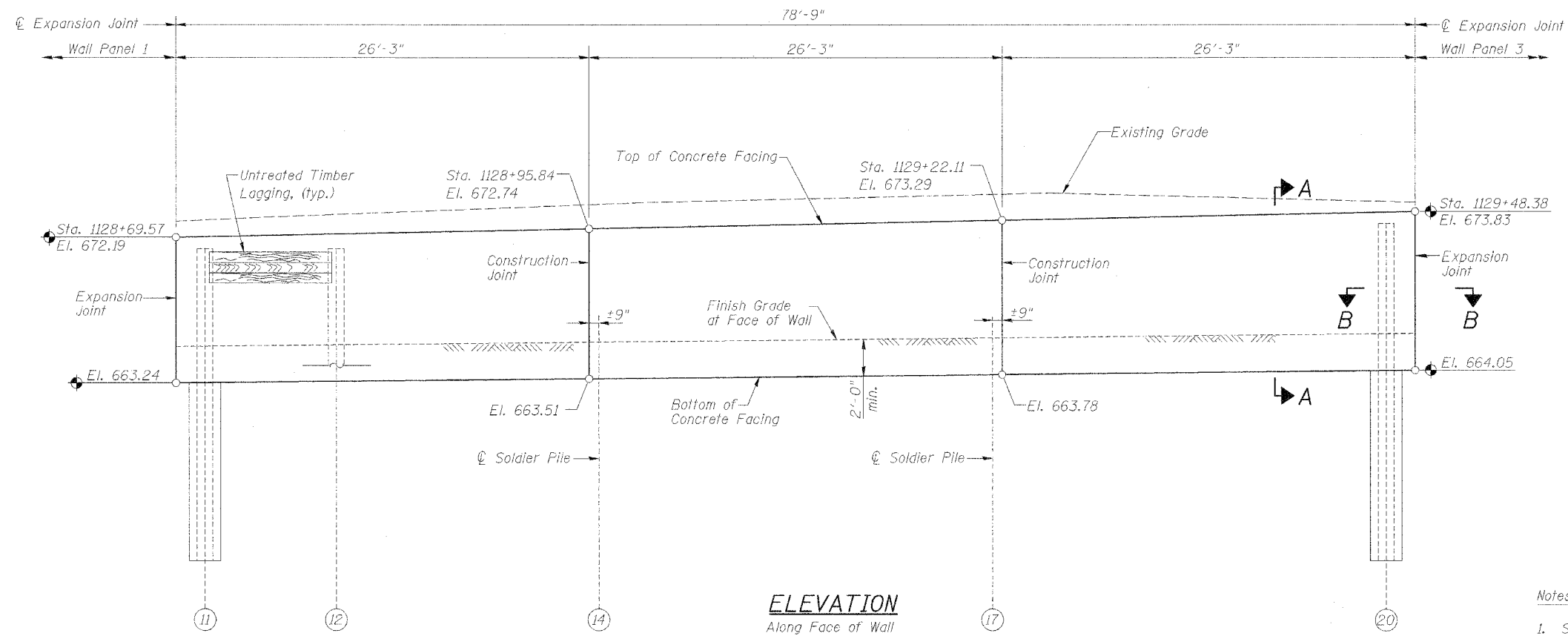
STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

DATE PLOTTED: 12/20/2005 10:13:26 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

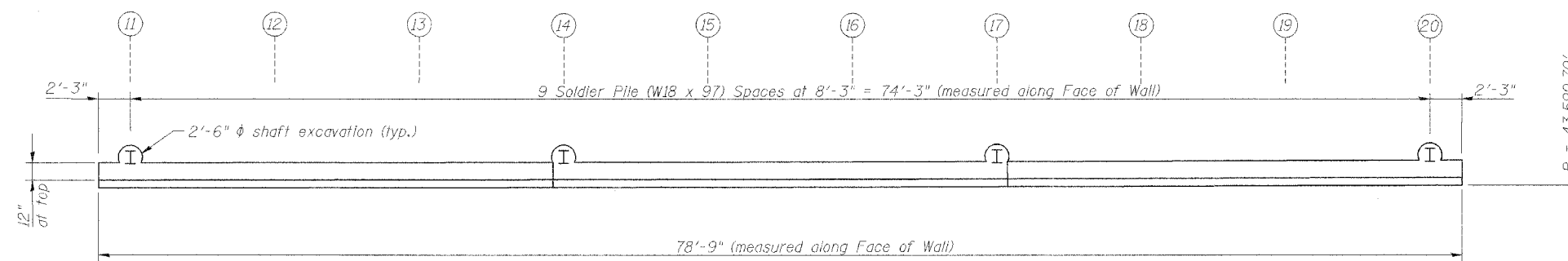
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F.A.P. 309	16R-2	WHITESIDE	647	143	13 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract No. 64969



Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B & Pile Summary.
3. See Sht. 8 for Reinforcement.



DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

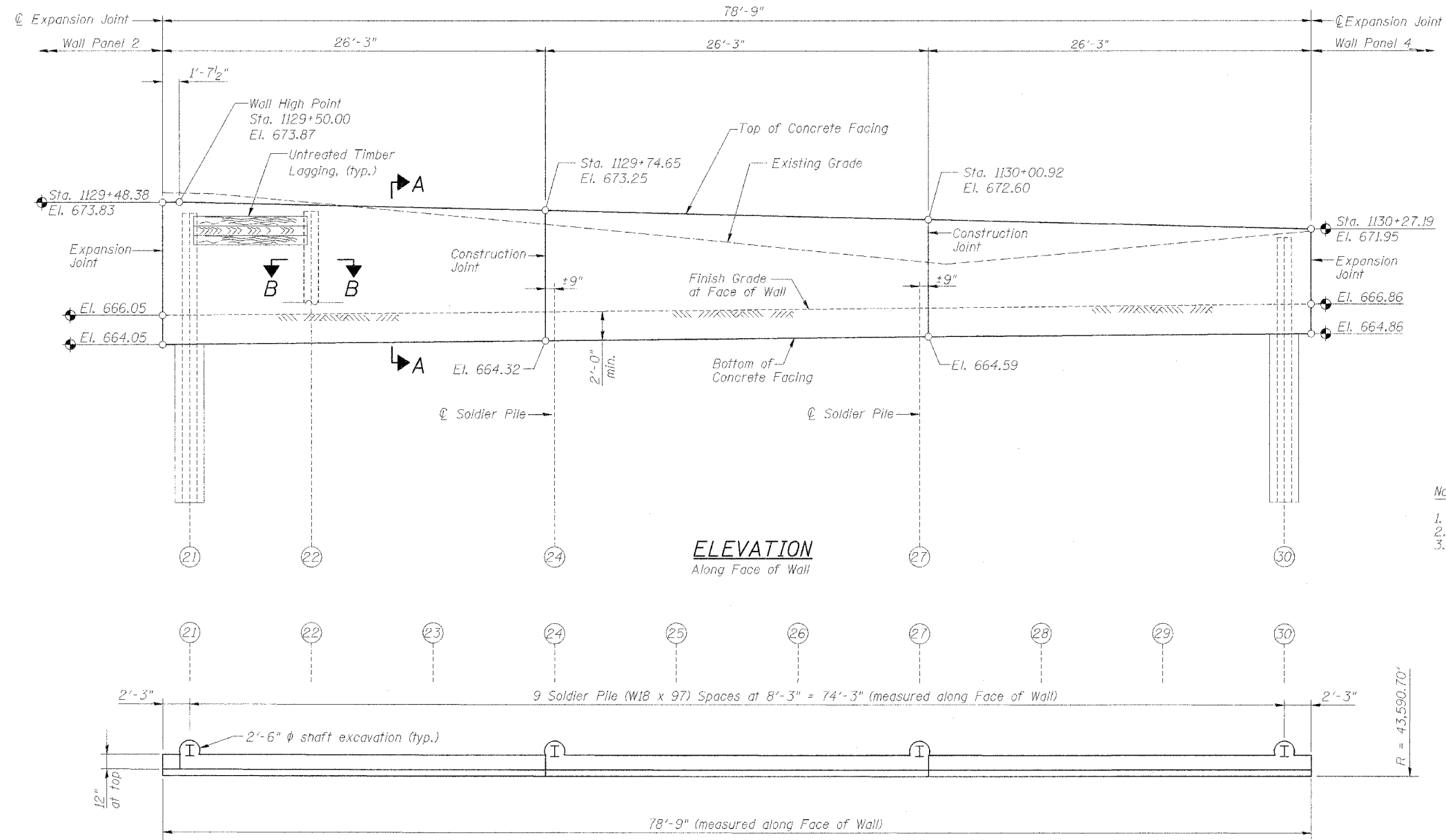
SOLDIER PILE WALL PANEL 2
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 13 SHEETS
F.A.P. 309	16R-2	WHITESIDE	541	164	
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT-		

Contract No. 64969



- Notes:
1. See Sht. 2 for Section A-A.
 2. See Sht. 3 for Section B-B & Pile Summary.
 3. See Sht. 8 for Reinforcement.

SOLDIER PILE WALL PANEL 3
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

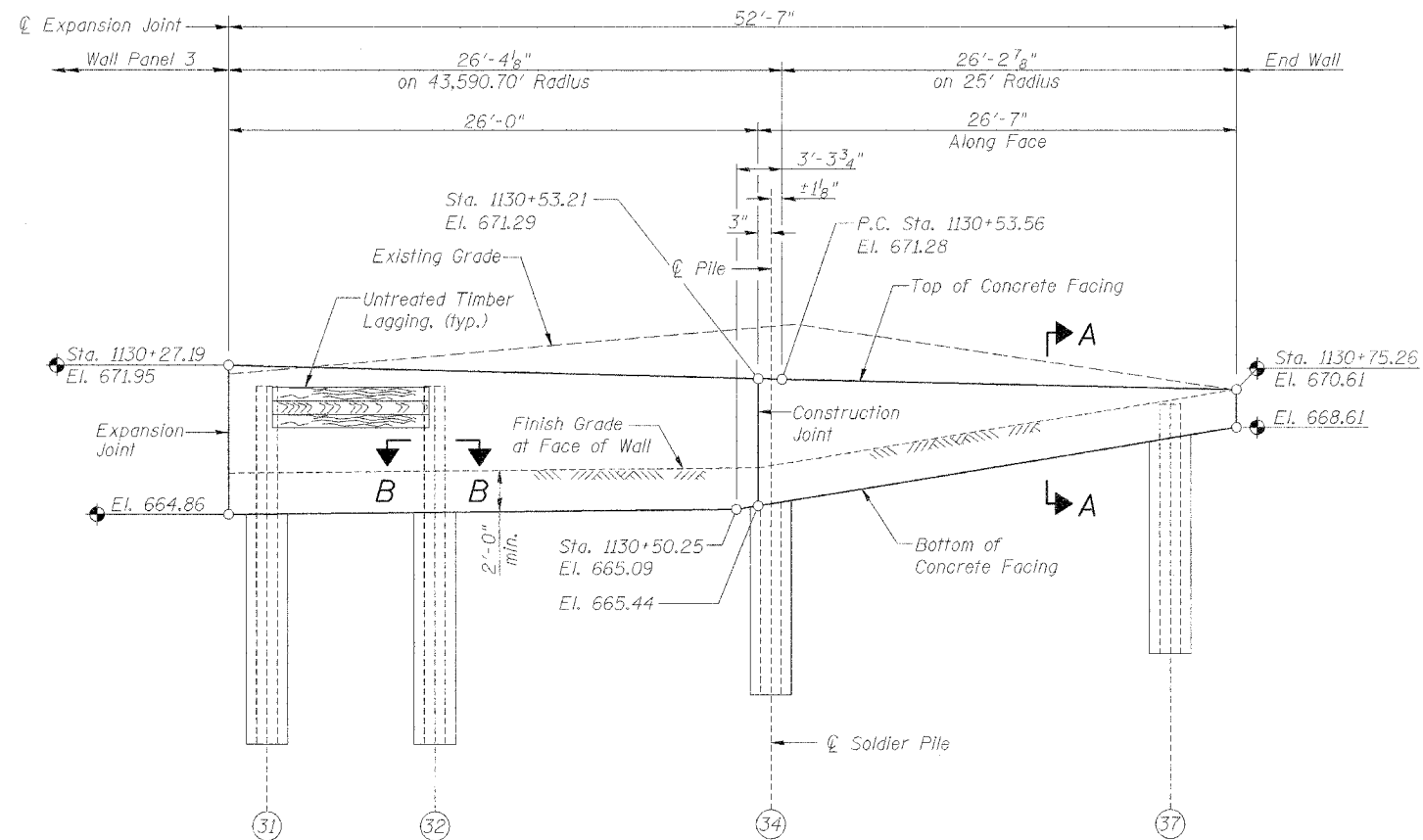
DESIGNED	LLV
CHECKED	P.JL
DRAWN	MGM
CHECKED	LLV

STS CONSULTANTS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
F.A.P. 309	16R-2	WHITESIDE	547	145	13 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

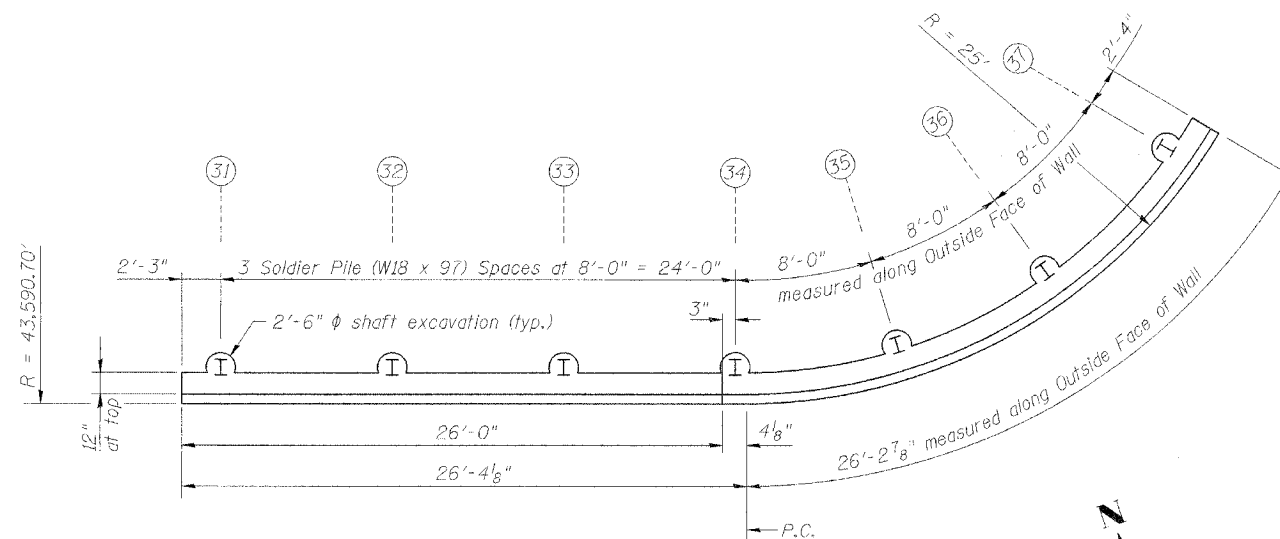
Contract No. 64969



ELEVATION
Along Face of Wall

Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B & Pile Summary.
3. See Sht. 8 for Reinforcement.
4. Pile webs are placed parallel to radial lines.



PLAN

DESIGNED	LLV
CHECKED	P.J.L.
DRAWN	MGM
CHECKED	LLV

**SOLDIER PILE WALL PANEL 4
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001**

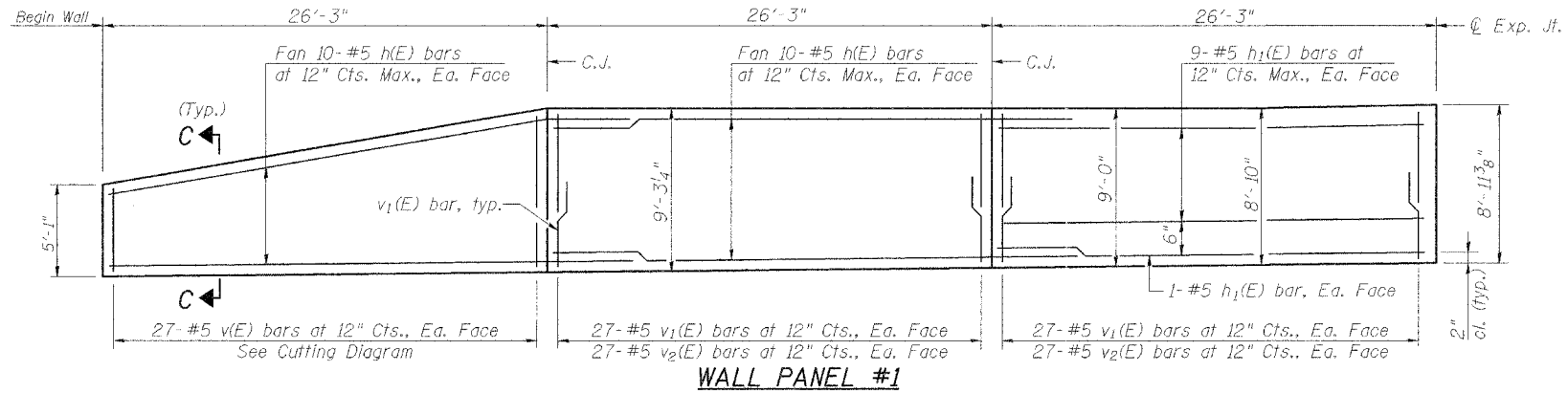
STS CONSULTANTS
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Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

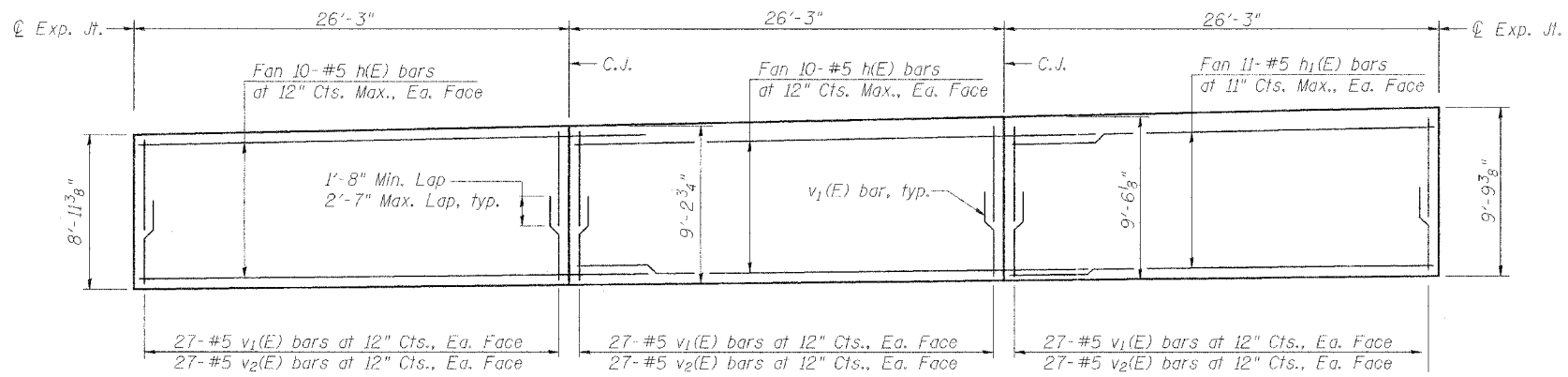
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.P. 309	16R-2	WHITESIDE	547	166
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract No. 64969

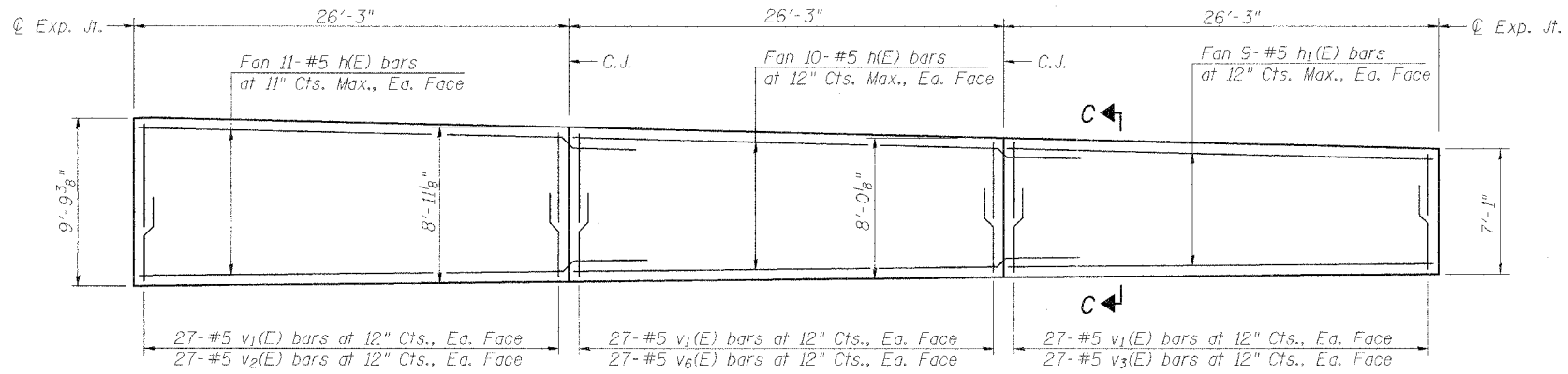
SHEET NO. 8
13 SHEETS



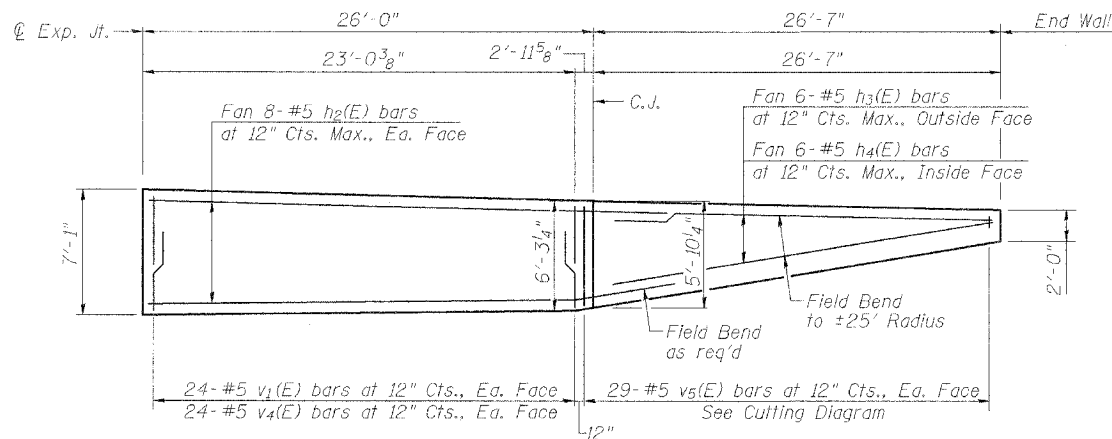
WALL PANEL #1



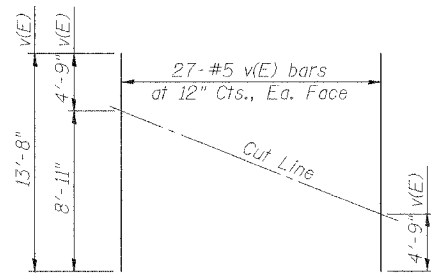
WALL PANEL #2



WALL PANEL #3

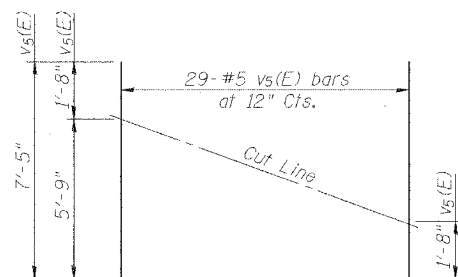


WALL PANEL #4



BAR CUTTING DIAGRAM

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



BAR CUTTING DIAGRAM

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

MIN. BAR LAPS
#5 bars = 1'-8"

Note:
1. See Sht. 3 for Section C-C & Reinforcement Bar List.

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

CONCRETE FACING FOR
SOLDIER PILE WALLS
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways DOT

SOIL BORING LOG

Page 1 of 1
Date 11/22/04

ROUTE FA 309 DESCRIPTION Retaining Wall, US 30 east edge of Morrison LOGGED BY J. Stratling
SECTION 16RS LOCATION Mt. Pleasant Twp. - SW 17, SEC., TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-7b
Station 1128+45
Offset 60.00R Lt of CL
Ground Surface Elev. 674.6

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
672.60	4	0.5 P	17	MEDIUM brown SANDY LOAM	653.10	8	1.8 B	14
671.10	4	1.25 P	7	STIFF tan SILT	650.60	12		
668.60	5	1.5 P	6	STIFF tan SILT	648.60	4	0.25 P	28
666.10	4	1.0 P	8	STIFF tan SILT	645.60	7	0.6 B	23
663.60	4	1.0 P	13	STIFF tan SILT	643.60	23		
661.10	5	1.0 P	11	STIFF tan SILT	641.10	24		
658.60	7	0.75 P	10	MEDIUM tan SILT	638.60	17		
656.10	5	0.75 P	22	MEDIUM tan SILT				
				STIFF tan SILTY CLAY LOAM				

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 645.1 ft
Upon Completion 640.6 ft
After _____ Hrs.

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 DOT

SOIL BORING LOG

Page 1 of 1
Date 3/4/03

ROUTE FA 309 DESCRIPTION Retaining wall, US 30 in Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION Mt. Pleasant Twp. - NW 18, SEC., TWP. 21N, RNG. 4E
COUNTY Whiteside DRILLING METHOD Auger Boring HAMMER TYPE Minutaman Auger

STRUCT. NO. _____
Station 1128+50

BORING NO. B-9a
Station 1128+45
Offset 25.00R Lt of CL
Ground Surface Elev. 668.5

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
647.50				MEDIUM tanish gray SILTY LOAM (continued)	647.50			
644.00			0.2 P	VERY SOFT Same as above with SAND lens	644.00			19
641.00				End of Boring	641.00			
639.50				VERY SOFT tan SILTY LOAM	639.50	0.1 P		15
636.50				SOFT Same as above	636.50	0.3 P		20
633.50				VERY SOFT tan SILTY LOAM	633.50	0.1 P		21
630.50				MEDIUM tanish gray SILTY LOAM	630.50	0.7 P		21

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 652.5 ft
Upon Completion 648.5 ft
After _____ Hrs.

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)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	171
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

Contract No. 64969



Illinois Department
of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3/7/03

ROUTE FA 309 DESCRIPTION Retaining wall, US 30 in Morrison LOGGED BY W. Garza

SECTION 16RS LOCATION Mt. Pleasant Twp. - NW 18, SEC. , TWP. 21N, RNG. 4E

COUNTY Whiteside DRILLING METHOD Auger Boring HAMMER TYPE Minuteman Auger

STRUCT. NO.	D	B	U	M	Surface Water Elev.
Station	E	L	C	O	Stream Bed Elev.
BORING NO.	P	O	S	I	Groundwater Elev.:
Station	H	W	Qu	T	First Encounter
Offset	T	S			Upon Completion
Ground Surface Elev.	(ft)	(#ft)	(tsf)	(%)	After Hrs.
tan SILTY LOAM				8	
666.50			0.8	12	
MEDIUM tan SILTY LOAM with ORGANICS			P		
663.50			0.3	18	
SOFT Same as above			P		
660.50			0.3		
SOFT tan SILTY LOAM			P		
657.50			0.1	23	
Same as above, wet, with SAND lens			P		
654.50			0.0	26	
VERY SOFT tan SILTY LOAM			P		
651.50					
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 T208)

BORING LOGS
RETAINING WALL NO. 1
U.S. RTE. 30 (LINCOLN HIGHWAY)
BETWEEN SCENIC ST. & SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1127+90.75 TO
STA. 1130+75.26 (LT.)
STRUCTURE NO. 098-7001

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

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111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

HWY-309-7001-001 12/22/2005 10:45:32 AM

Bench Mark: Chiseled "□" on Step at Station 1134+34.3, 49.50' Rt. Elevation = 667.39
 Existing Structure: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 309	16R-2	WHITESIDE	647	172	11 SHEETS
FED. ROAD DIST. NO. 4	ILL. DIST.	FED. AID PROJECT			

Contract No. 64969

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications For Highway Bridges

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (M270 Gr. 36 structural steel)

CURVE DATA

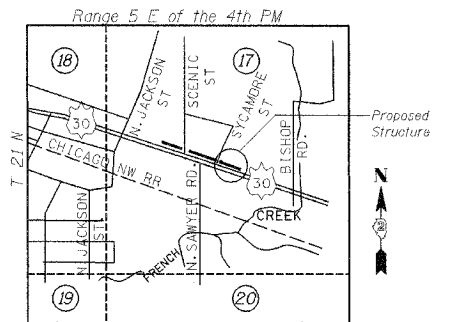
PI STA. 1135+73.94
 $\Delta = 0^\circ 28' 00.78" (RT)$
 $D = 0^\circ 03' 30.10"$
 $R = 98,174.99'$
 $T = 400.00'$
 $L = 799.99'$
 $E = 0.8149'$
 $L.C. = 799.99'$
 P.C. STA. = 1131+73.94
 P.T. STA. = 1139+73.93

INDEX OF SHEETS

Sht. #	Title
1	General Plan
2	Section, Profile Grade, and Drain Details
3	General Notes, Details, & Total Bill of Material
4	Soldier Pile Wall Panel 1
5	Soldier Pile Wall Panel 2
6	Soldier Pile Wall Panel 3
7	Concrete Facing for Soldier Pile Walls
8-11	Boring Logs

Notes:

1. See Sht. 2 for Section A-A.



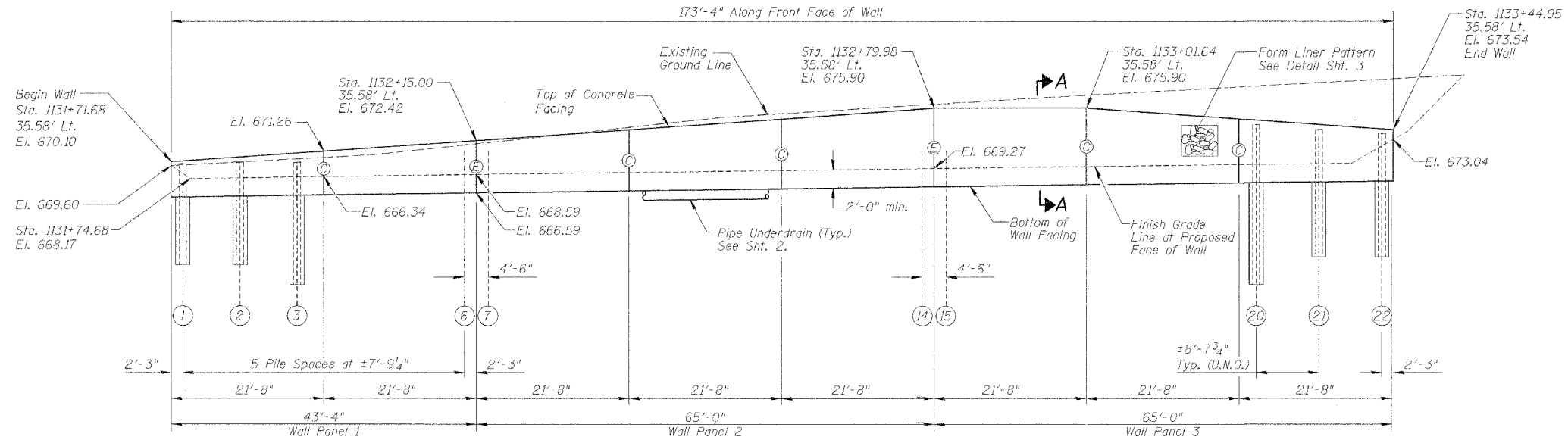
LOCATION SKETCH

GENERAL PLAN
 RETAINING WALL NO. 2
 U.S. RTE. 30 (LINCOLN HIGHWAY)
 EAST OF SYCAMORE ST.
 F.A.P. ROUTE 309 SECTION 16 R-2
 WHITESIDE COUNTY
 STA. 1131+71.68 TO
 STA. 1133+44.95 (LT.)
 STRUCTURE NO. 098-7002

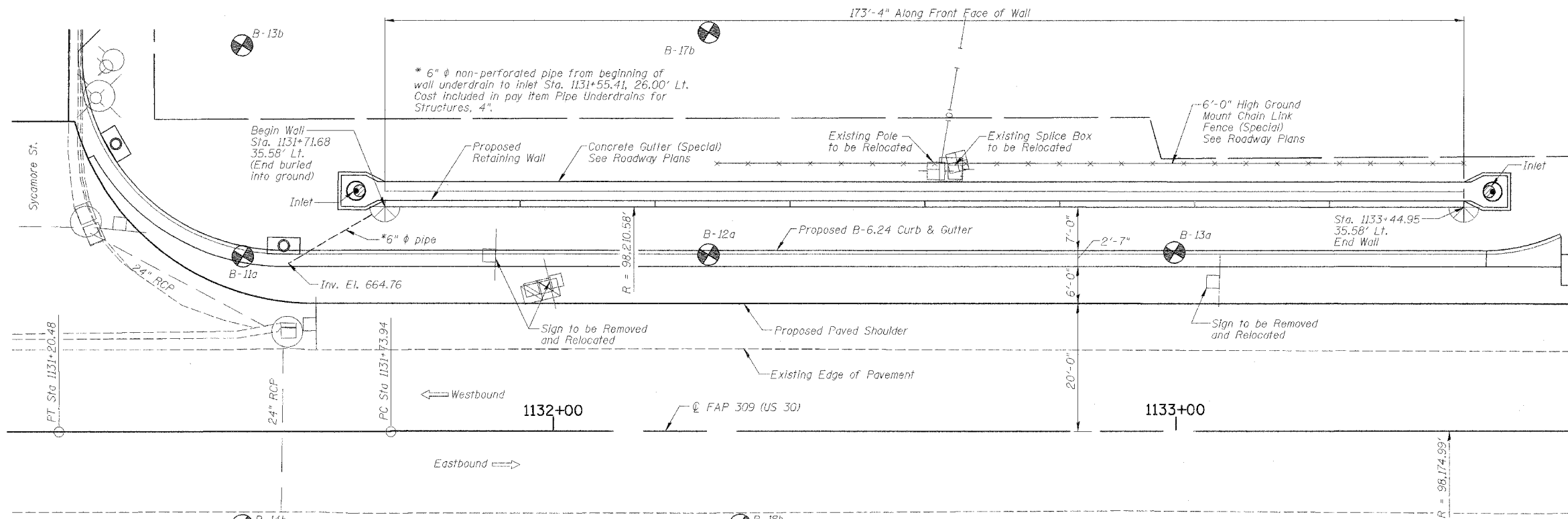
STS CONSULTANTS
 111 NE Jefferson Ave.
 Peoria, Illinois 61602
 Ph: (309) 676-8464
 Fax: (309) 676-5445
 IL Design Firm Reg. No. 184-001518

LEGEND

- Existing Roadway
- Sign Post
- Power Pole
- Light Pole
- Telephone Pole
- Telephone Splice Box
- Telephone Double Handhole
- Fire Hydrant
- Manhole
- Inlet
- Existing Overhead Electric
- Existing Storm Sewer
- Construction Joint
- Expansion Joint
- Pile Designation
- Soil Borings



ELEVATION
 (Looking North)



PLAN

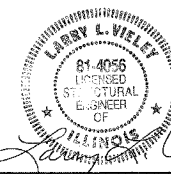
Notes:

- Expansion joints shall be provided at 65'-0" intervals, U.N.O.
- Construction joints shall be provided at 21'-8" intervals. Reinforcing steel shall be placed continuously through construction joints.
- All offsets shown to face of wall at finish grade level from U.S. Rte. 30

DESIGNED	LLV
CHECKED	P.JL
DRAWN	MGM
CHECKED	LLV

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph C. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



Larry L. Velej
 Illinois Licensed Structural Engineer No. 081-004056
 Lic. Expires: 11/30/06

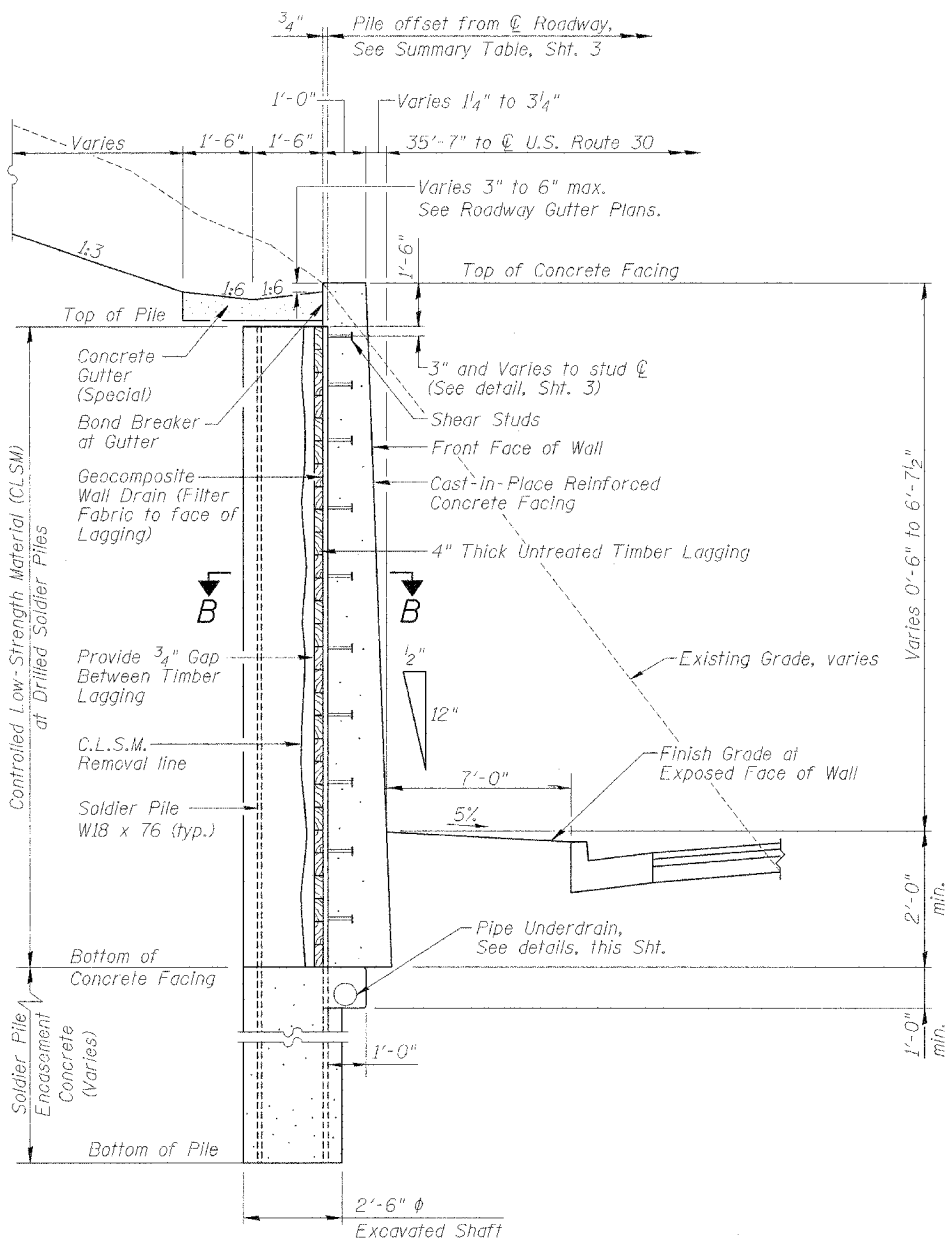
12/08/05

Date

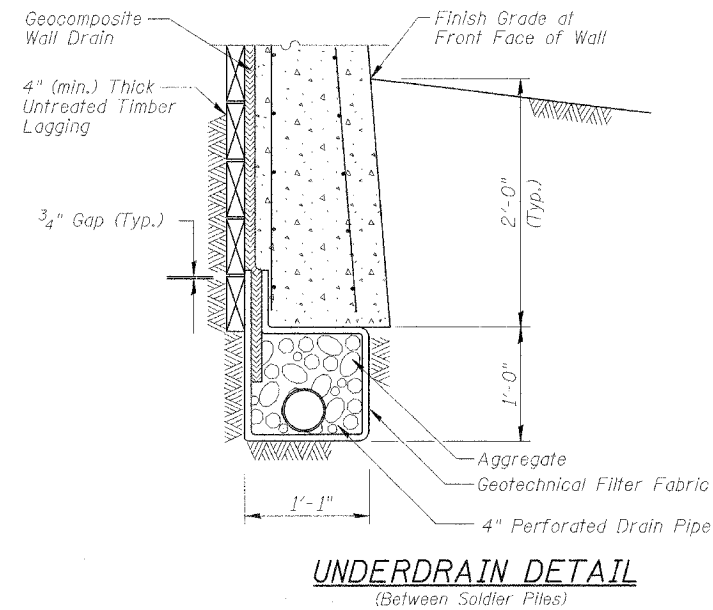
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	647	173
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

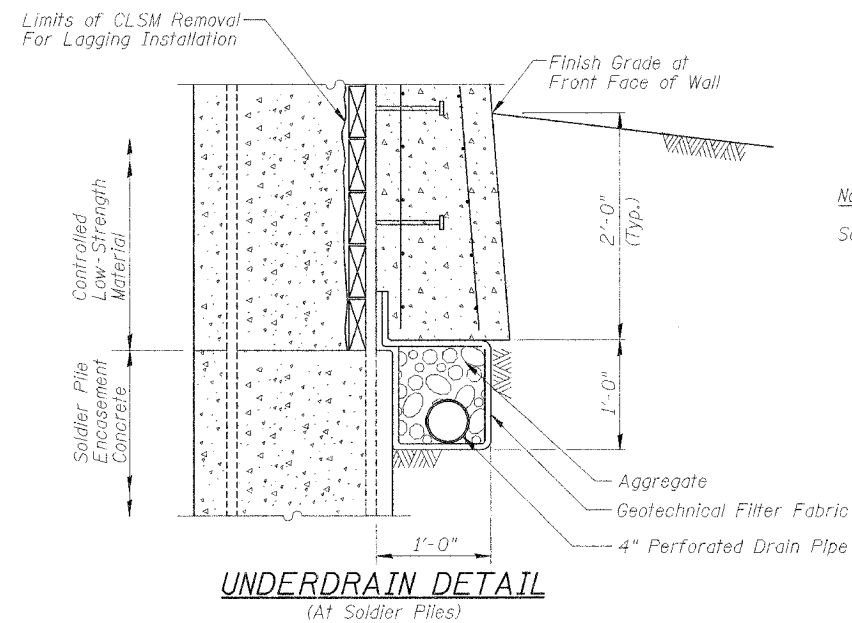
Contract No. 64969



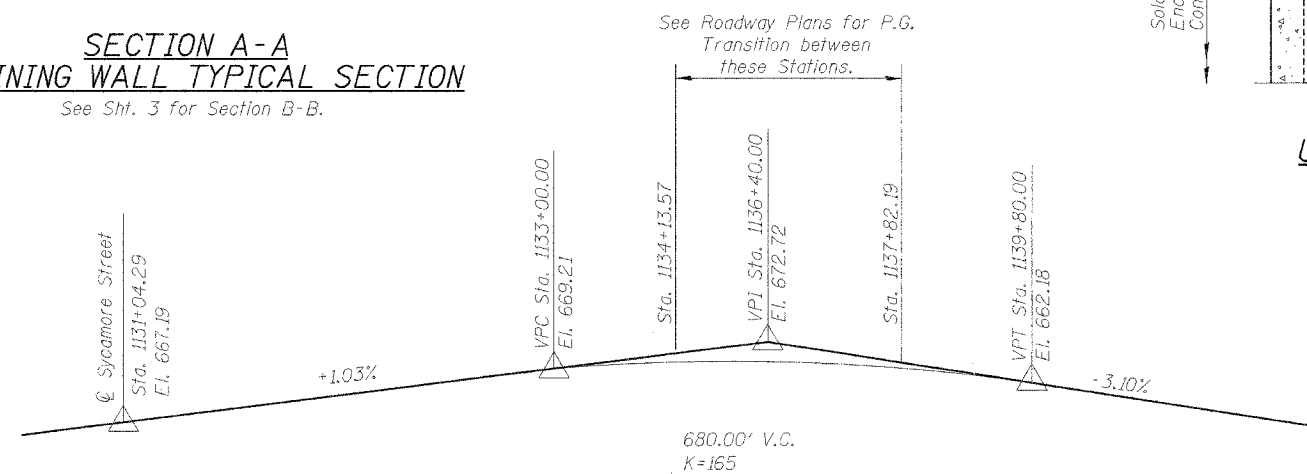
SECTION A-A
RETAINING WALL TYPICAL SECTION
See Sht. 3 for Section B-B.



UNDERDRAIN DETAIL
(Between Soldier Piles)



Note:
See Special Provision for Pipe Underdrains for Structures, 4"



PROFILE GRADE U.S. RTE. 30
(Along Centerline of Roadway)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

SECTION, PROFILE GRADE AND
DRAIN DETAILS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph (309) 676-8464
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IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
2. The contractor is responsible for the design and performance of the timber lagging using no less than a 4" nominal rough-sawn thickness and timber with a minimum tabulated unit stress in bending (F_b) of 1,500 psi.
3. Stud shear connectors for the Soldier Piles may be shop or field welded.
4. All construction joints shall be bonded.
5. Form liners shall be used on the outside exposed vertical area of the retaining wall. The form liners shall have no reveal, extend 6" below grade, and shall simulate the appearance of a limestone facade as shown on the plans. The contractor shall prepare at the job site, a mock surface constructed of his proposed form liner for approval of the Engineer prior to ordering the quantity or form liner required to complete the project. The form liner will not be paid for separately, but shall be included in the contract unit price per Cubic Yard for Concrete Structures.

SEQUENCE OF CONSTRUCTION

1. Establish working platform and drill shaft excavation for soldier pile to tip elevation shown on the Summary Table. The side walls of the shaft excavation shall be supported as required to prevent collapse.
2. Remove any loose material and excess water from shaft. If the water inflow is excessive or pumping causes side wall caving, allow water to stabilize so the the concrete can be placed by pump or tremie.
3. Set soldier piles in the shaft of excavation and brace to maintain proper pile position. See Summary Table for location.
4. Place Soldier Pile Encasement Concrete around soldier pile to the bottom of the Proposed Concrete Facing elevation and C.L.S.M. to the top of pile.
5. After all the concrete has attained required strength, excavate in front of wall in stages. Excavate behind wall to near final grade. Simultaneous to the excavation, remove the C.L.S.M. at the face of the soldier piles and remove only enough soil necessary to place each timber lagging snug against excavated surface.
6. Complete untreated timber lagging placement to the depths shown on the plans.
7. Attach Geocomposite Wall Drain to cover the untreated timber lagging. See Section B-B, this sheet and Underdrain Details, sheet 2.
8. Construct Pipe Underdrain by excavating a trench, lining it with fabric, placing a pipe and aggregate such that the Geocomposite Wall Drain is connected as shown on the plans.
9. Attach shear studs on soldier piles, set reinforcement, form and pour Concrete Facing.
10. Complete final grading at the base and top of wall.

SOLDIER PILE SUMMARY

Pile #	Station	Offset (LT.) (ft.)	Top Elevation (ft.)	Bottom Elevation (ft.)	Length (ft.)
1	1131+73.93	36.61	668.72	658.00	10.72
2	1131+81.69	36.62	669.14	658.00	11.14
3	1131+89.46	36.64	669.56	656.00	13.56
4	1131+97.22	36.65	669.97	656.00	13.97
5	1132+04.99	36.66	670.39	656.00	14.39
6	1132+12.75	36.68	670.80	655.00	15.80
7	1132+17.25	36.69	671.04	655.00	16.04
8	1132+25.89	36.70	671.50	655.00	16.50
9	1132+34.53	36.72	671.97	652.00	19.97
10	1132+43.17	36.73	672.43	652.00	20.43
11	1132+51.81	36.75	672.89	652.00	20.89
12	1132+60.45	36.76	673.36	649.00	24.36
13	1132+69.09	36.78	673.82	649.00	24.82
14	1132+77.73	36.79	674.28	649.00	25.28
15	1132+82.23	36.80	674.40	649.00	25.40
16	1132+90.87	36.79	674.40	649.00	25.40
17	1132+99.51	36.78	674.40	649.00	25.40
18	1133+08.15	36.77	674.05	649.00	25.05
19	1133+16.79	36.75	673.58	652.00	21.58
20	1133+25.43	36.72	673.11	652.00	21.11
21	1133+34.07	36.70	672.64	655.00	17.64
22	1133+42.70	36.68	672.17	655.00	17.17

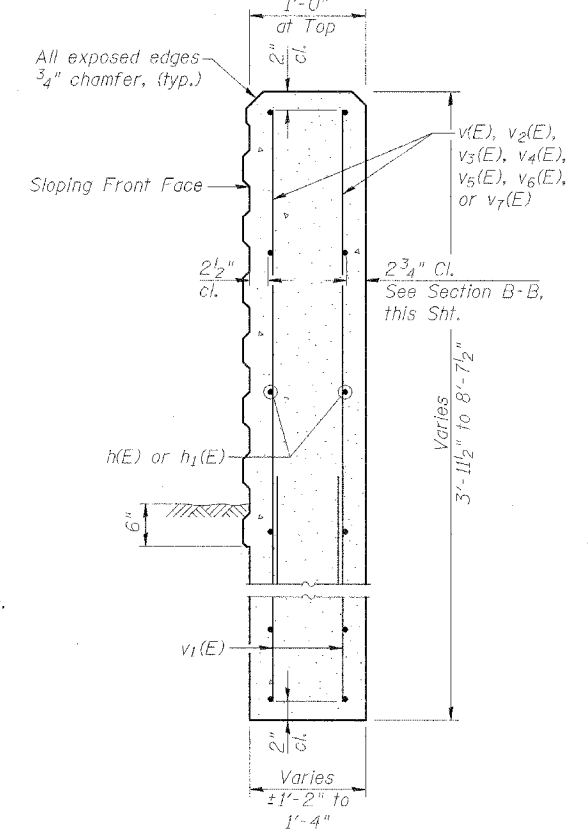
TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	84	#5	23'-8"	---
h ₁ (E)	50	#5	21'-6"	---
v(E)	22	#5	8'-1"	---
v ₁ (E)	220	#5	3'-0"	---
v ₂ (E)	44	#5	4'-3"	---
v ₃ (E)	44	#5	5'-1"	---
v ₄ (E)	44	#5	6'-0"	---
v ₅ (E)	88	#5	6'-11"	---
v ₆ (E)	22	#5	14'-9"	---
v ₇ (E)	22	#5	12'-0"	---
ITEM	UNIT	TOTAL		
Reinforcement Bars, Epoxy Coated	Pound	6,020		
Concrete Structures	Cu. Yd.	48.5		
Furnishing Soldier Piles, W18 x 76	Ft.	426.5		
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	2,094		
Stud Shear Connectors	Each	121		
Untreated Timber Lagging	Sq. Ft.	889		
Geocomposite Wall Drain	Sq. Yd.	80		
Pipe Underdrains for Structures, 4"	Ft.	192		
Structure Excavation	Cu. Yd.	41		

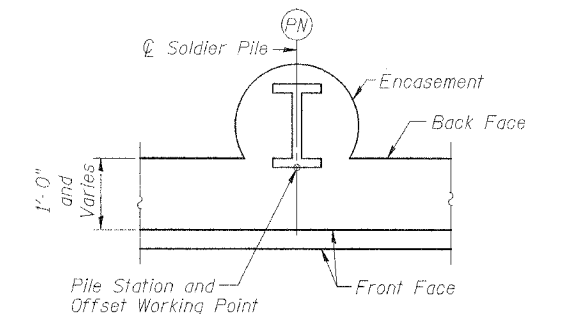
Reinforcement bars designated (E) shall be epoxy coated.

PLATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	641	174
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

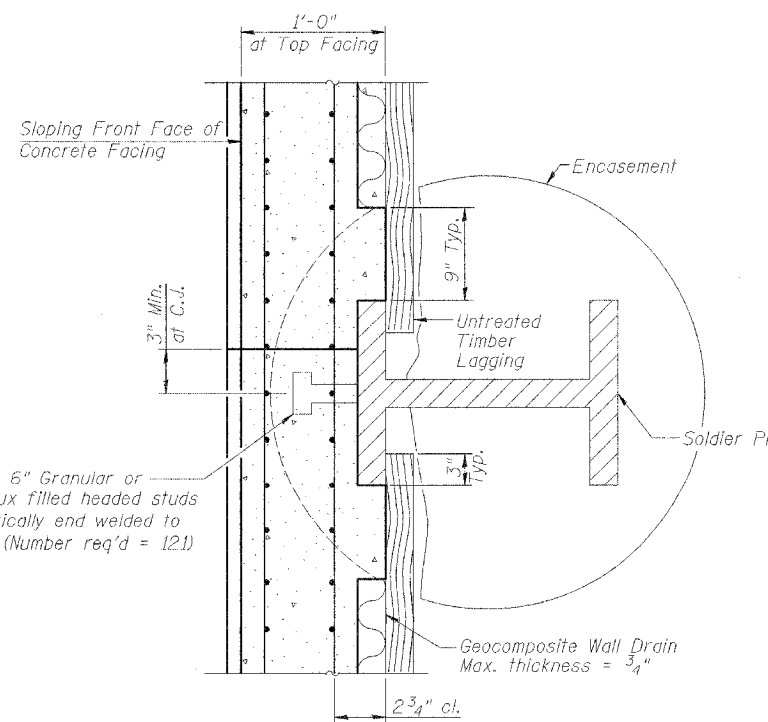
Contract No. 64969



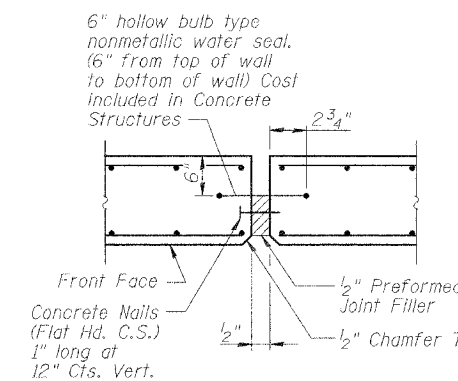
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SECTION C-C



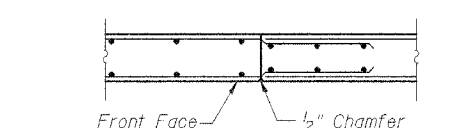
SOLDIER PILE WORKING POINT



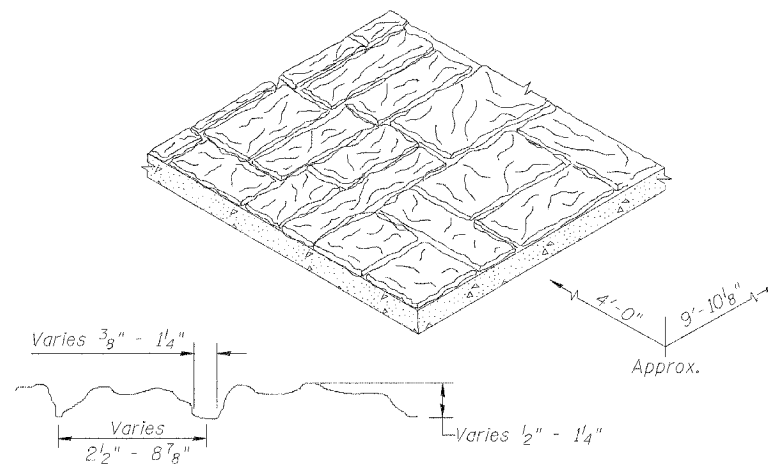
SECTION B-B



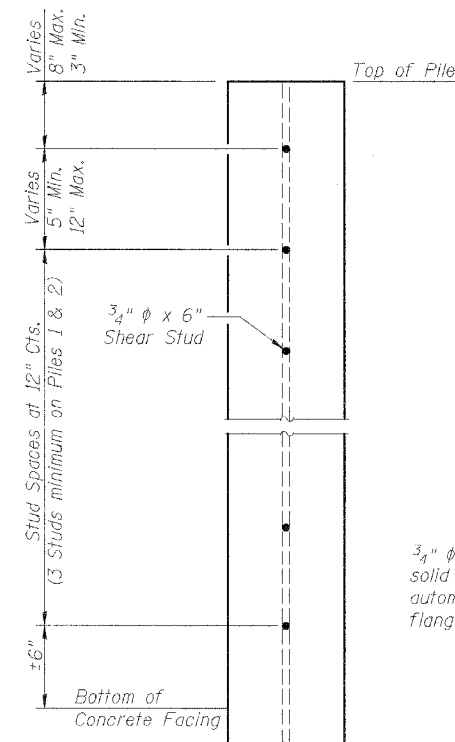
EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



FORM LINER DETAIL
(See General Note 5)



SHEAR STUD DETAIL

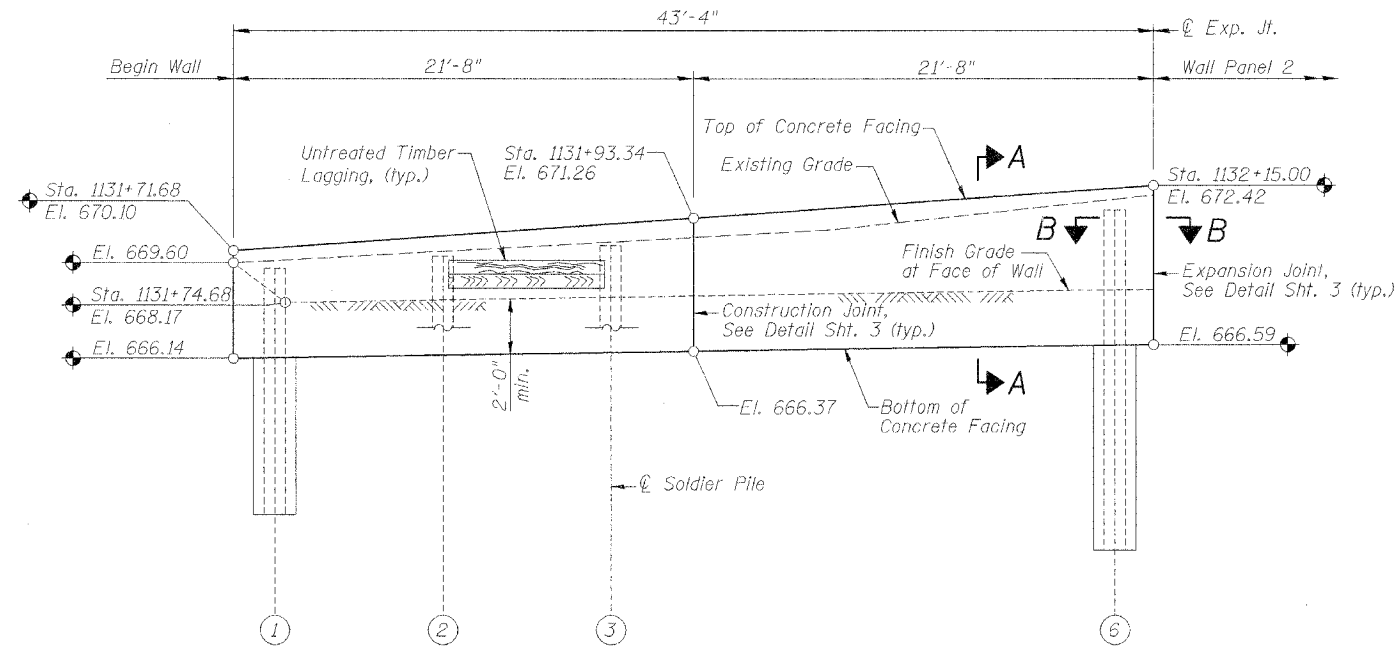
DESIGNED	LLV
CHECKED	P-JL
DRAWN	MGM
CHECKED	LLV

GENERAL NOTES, DETAILS, &
TOTAL BILL OF MATERIAL
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
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IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

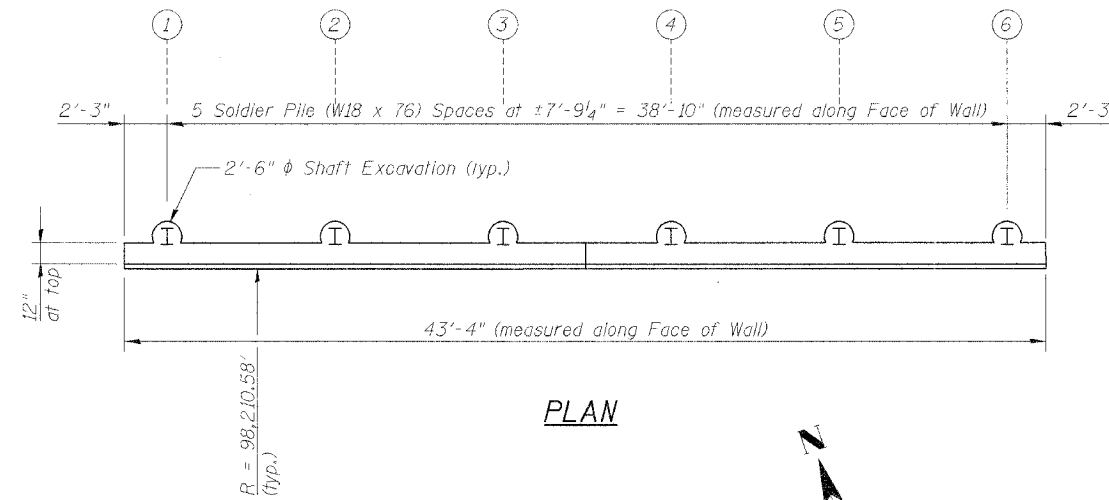
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL	SHEET NO. 4 11 SHEETS
F.A.P. 309	16R-2	WHITESIDE	647	175	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	Contract No. 64969		



ELEVATION
Along Face of Wall

Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B and Pile Summary.
3. See Sht. 7 for Reinforcement.



PLAN



DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

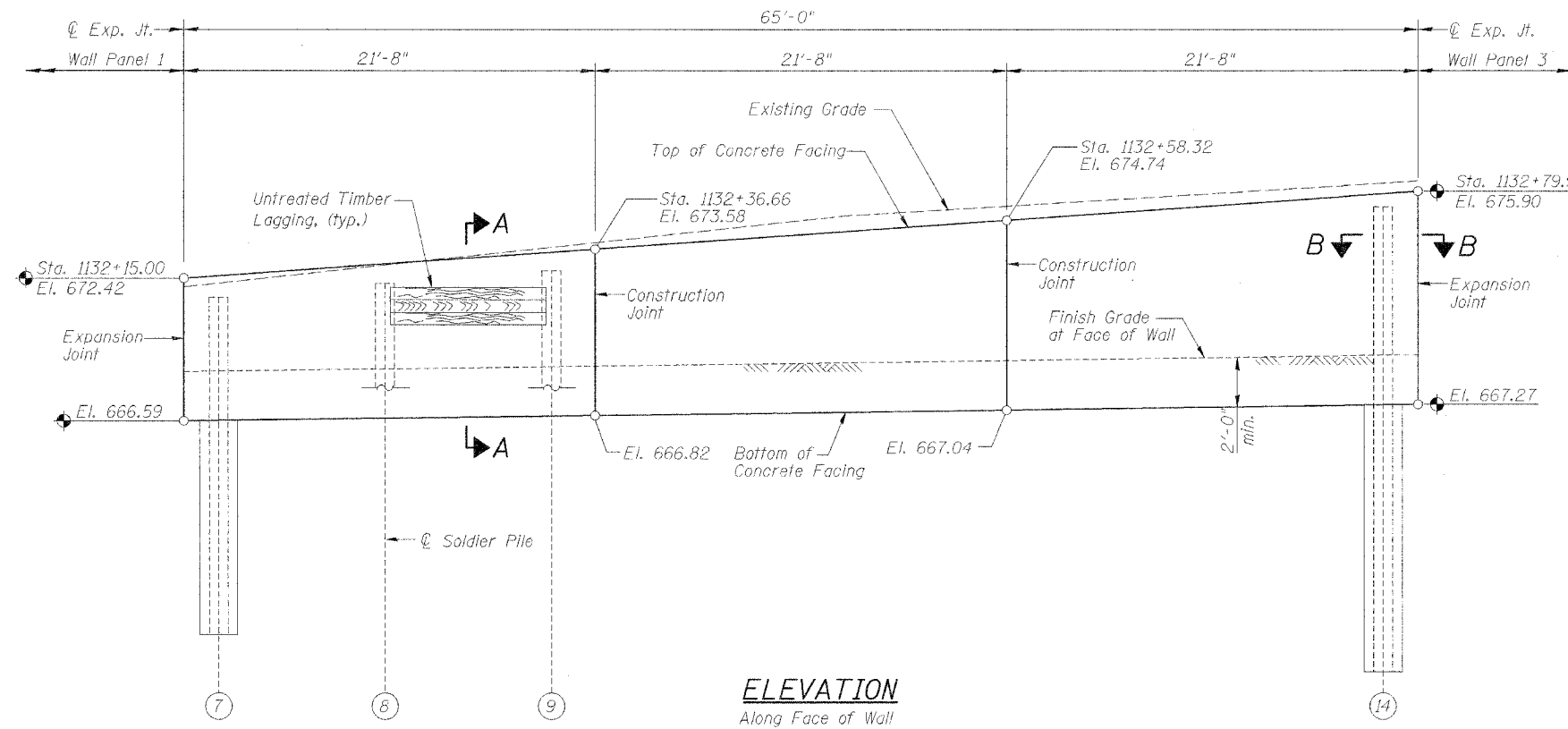
SOLDIER PILE WALL PANEL 1
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

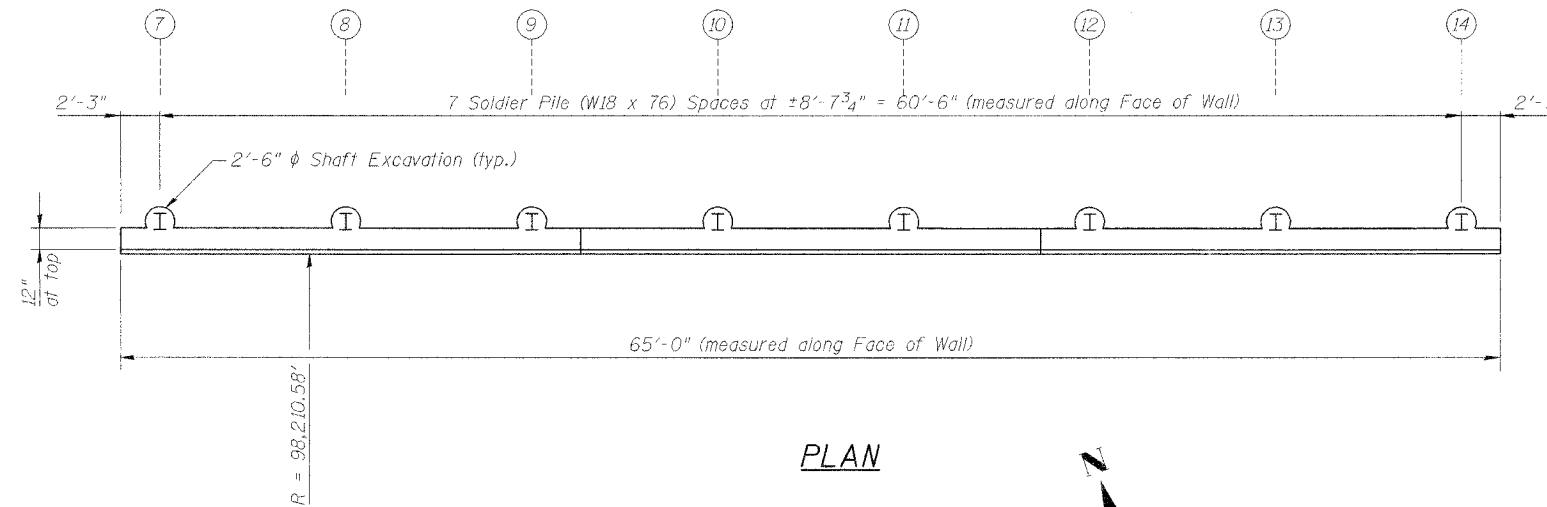
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 309	16R-2	WHITESIDE	547	176	11 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-			

Contract No. 64969



Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B and Pile Summary.
3. See Sht. 7 for Reinforcement.



DESIGNED	LLV
CHECKED	FJL
DRAWN	MGM
CHECKED	LLV

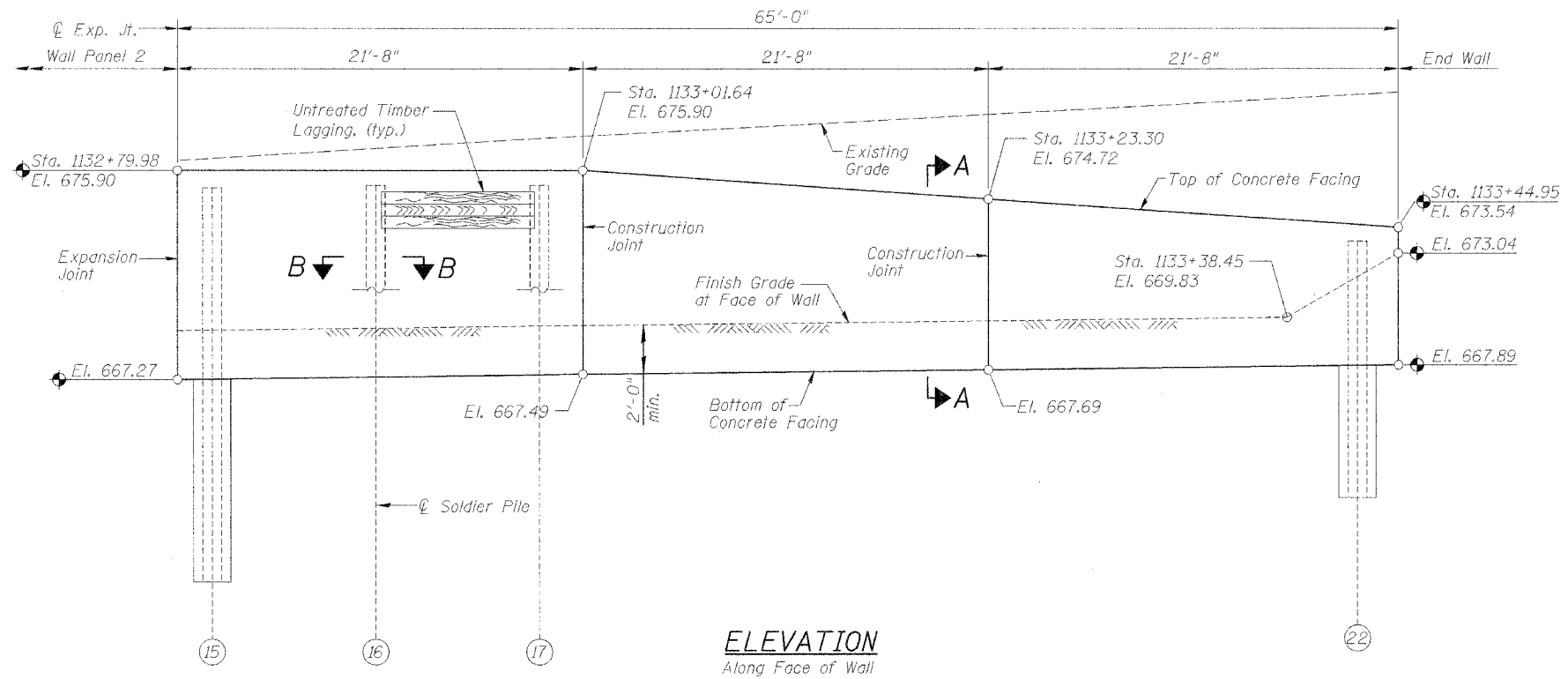
SOLDIER PILE WALL PANEL 2
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

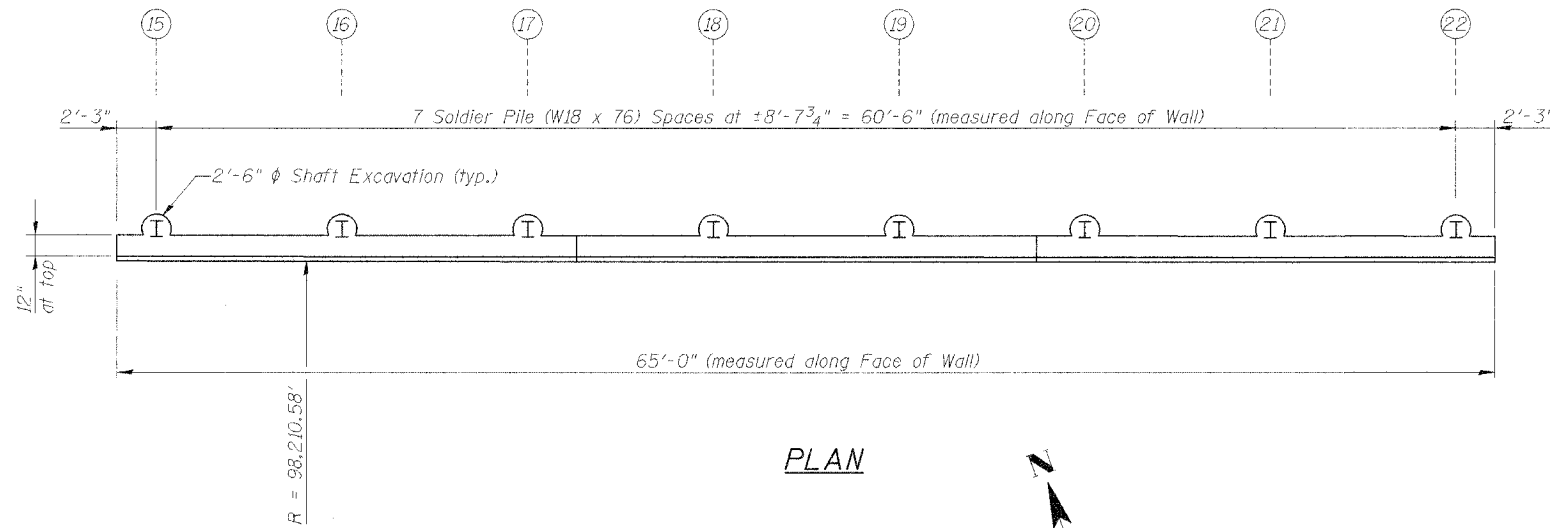
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	177
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

Contract No. 64969



Notes:

1. See Sht. 2 for Section A-A.
2. See Sht. 3 for Section B-B and Pile Summary.
3. See Sht. 7 for Reinforcement.



DESIGNED	LLV
CHECKED	PJL
DRAWN	MCM
CHECKED	LLV

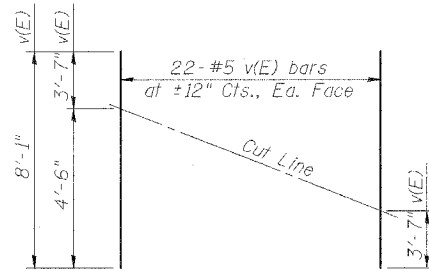
SOLDIER PILE WALL PANEL 3
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

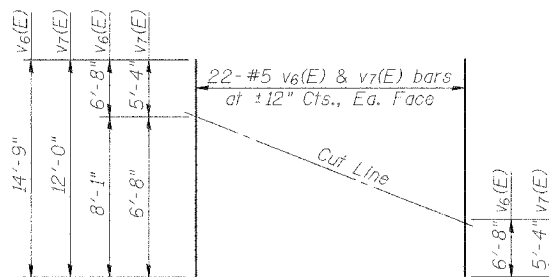
ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET NO.	SHEET NO. 7 11 SHEETS
F.A.P. 309	16R-2	WHITESIDE	647	178	
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT	

Contract No. 64969



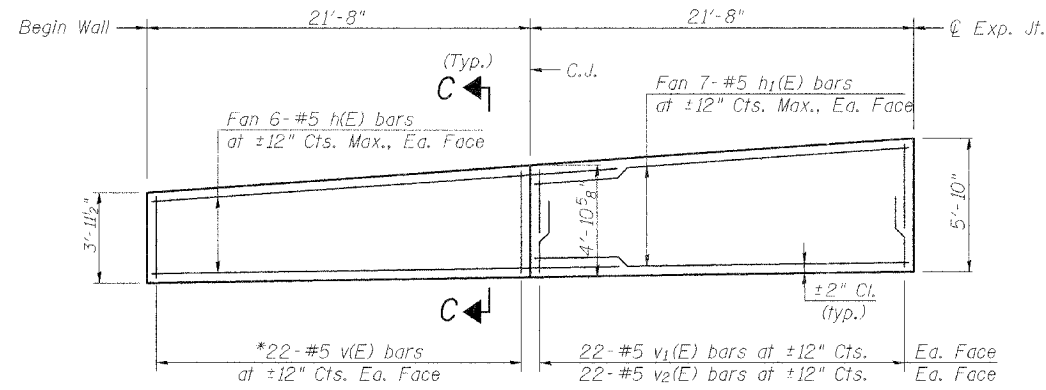
BAR CUTTING DIAGRAM

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

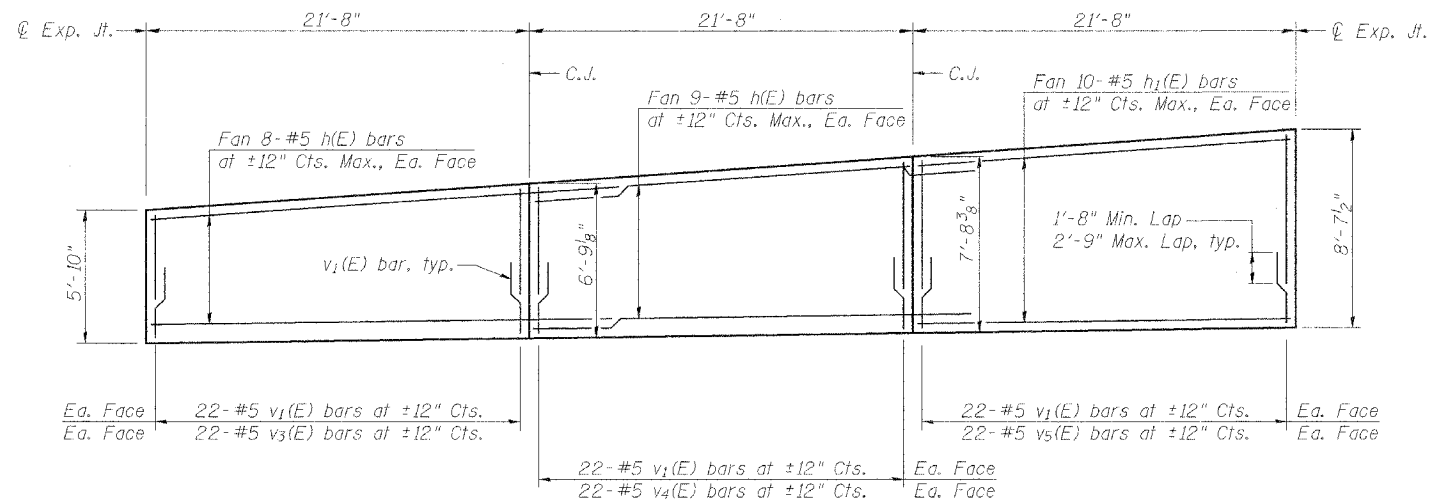


BAR CUTTING DIAGRAM

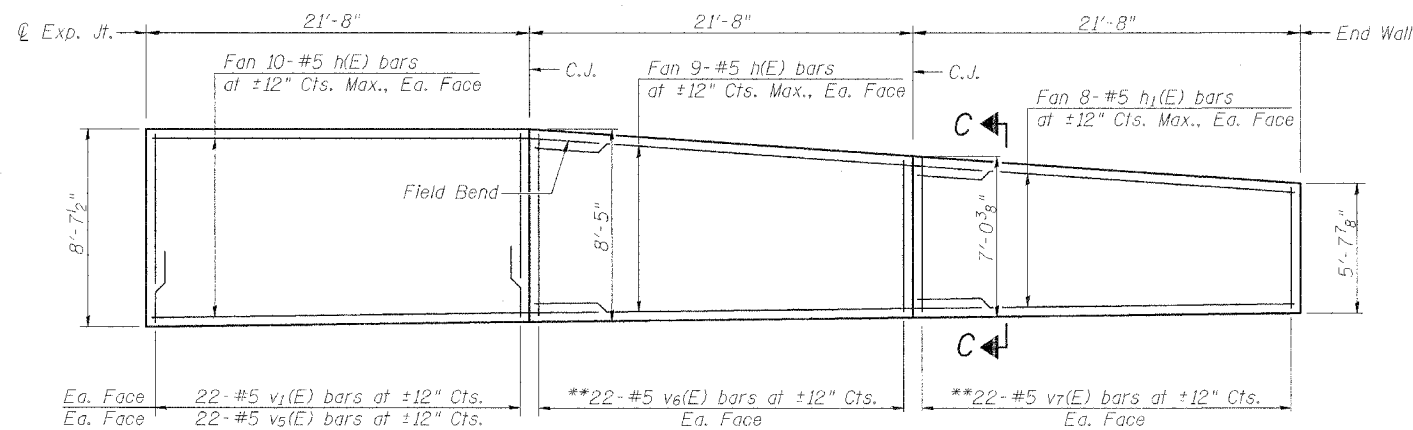
**Order v6(E) and v7(E) bars full length. Cut as shown and use remainder of bars in opposite wall face.



WALL PANEL #1



WALL PANEL #2



WALL PANEL #3

MIN. BAR LAPS

#5 bars = 1'-8"

Note:

1. See Sht. 3 for Section C-C and Reinforcement Bar List.

CONCRETE FACING FOR
SOLDIER PILE WALLS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

STS CONSULTANTS
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Peoria, Illinois 61602
Ph(309)676-8464
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IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	174
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-		

Contract No. 64969

Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG Page 1 of 1
Date 10/25/04

ROUTE FA 309 DESCRIPTION Retaining Wall, US 30 east edge of Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION Mt. Pleasant Twp. - SW 17, SEC., TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station 1131+50
BORING NO. B-13b Station 1131+50
Offset 62.00R Lt CL
Ground Surface Elev. 671.3 ft

DEPTH H ft	B L O W S Qu	U C S (tsf)	M O I S T (%)	Surface Water Elev. _____ ft		DEPTH H ft	B L O W S Qu	U C S (tsf)	M O I S T (%)
				Stream Bed Elev. _____ ft	Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft				
		1.1 P	9				1	0.0 P	25
669.30	4						1		
667.80	4 10	1.1 S	18				1 3		19
665.30	4 5	1.6 P	27				1 2	0.1 P	23
662.80	2 4	1.7 S	20						
660.30	2 4 6	1.2 S	25						
657.80	2 3 6	0.6 B	21						
655.30	2 3 3	0.8 P	18						
652.80	1 2	0.1 P	26						

STIFF light brown SILTY LOAM
STIFF brown SILTY LOAM
STIFF dark brown SILTY LOAM
STIFF brown SILTY LOAM
STIFF gray/tan SILTY CLAY
MEDIUM brown SILTY LOAM with SAND lens
MEDIUM tan SILT with fine SAND lens
VERY SOFT tan SILT
VERY SOFT tan SILT

VERY SOFT tan SILT (continued)
VERY LOOSE tan fine SAND with SILT lens
VERY SOFT tan moist SILT with fine SAND lens
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)

Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG Page 1 of 1
Date 3/4/03

ROUTE FA 309 DESCRIPTION Retaining wall, US 30 in Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION Mt. Pleasant Twp. - NW 18, SEC., TWP. 21N, RNG. 4E
COUNTY Whiteside DRILLING METHOD Auger Boring HAMMER TYPE Minuteman Auger

STRUCT. NO. Station 1131+50
BORING NO. B-11a Station 1131+50
Offset 28.00R Lt of CL
Ground Surface Elev. 668.0 ft

DEPTH H ft	B L O W S Qu	U C S (tsf)	M O I S T (%)	Surface Water Elev. _____ ft		DEPTH H ft	B L O W S Qu	U C S (tsf)	M O I S T (%)
				Stream Bed Elev. _____ ft	Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft				
		0.1 P	19						
665.00									
662.00		0.2 P	27						
659.00		0.2 P	25						
657.00		0.2 P							
655.00		0.0 P	37						
652.00									

12" Frost
VERY SOFT brownish tan SILTY LOAM
VERY SOFT brown SILTY CLAY LOAM
Same as above brown/tan
VERY SOFT brown SILTY CLAY LOAM
VERY SOFT moist brown SILTY CLAY LOAM
VERY LOOSE tan SAND
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)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	186
FED. ROAD DIST. NO. 4	SL. DINGS	FED. AID PROJECT		

Contract No. 64969

Page 1 of 1
Date 10/27/04

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

ROUTE FA 309 DESCRIPTION Retaining Wall, US 30 east edge of Morrison LOGGED BY J. Strating
SECTION 16RS LOCATION Mt. Pleasant Twp. - SW 17, SEC. , TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-14b
Station 1131+50
Offset 15.00R RL CL
Ground Surface Elev. 667.0

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (6")	UCS (tsf)	MOISTURE (%)	ELEVATION (ft)		DEPTHS (ft)	BLOW COUNT (6")	UCS (tsf)	MOISTURE (%)
					Surface Water	Stream Bed				
MEDIUM dark brown SILTY CLAY LOAM			0.75 P	15		646.00	1	0.0 P	29	
STIFF dark brown LOAM	665.00	3								
	663.50	3	2.0 P	14						
MEDIUM brown SILTY LOAM										
	661.00	3	1.0 S	19						
MEDIUM brown SILTY CLAY										
	658.50	1	0.8 B	26						
STIFF brown SILTY CLAY										
	656.00	2	1.8 S	24						
Same as above										
	653.50	2	1.0 B	30						
MEDIUM red/brown SILT with SAND lenses										
	650.50	2	0.6 B	26						
LOOSE brown dirty fine SAND with SILT lens										
	648.00	3								
VERY SOFT tan/brown SILT										

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)

Page 1 of 1
Date 10/25/04

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

ROUTE FA 309 DESCRIPTION Retaining Wall, US 30 east edge of Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION Mt. Pleasant Twp. - SW 17, SEC. , TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-17b
Station 1132+25
Offset 64.00R LL CL
Ground Surface Elev. 675.9

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (6")	UCS (tsf)	MOISTURE (%)	ELEVATION (ft)		DEPTHS (ft)	BLOW COUNT (6")	UCS (tsf)	MOISTURE (%)
					Surface Water	Stream Bed				
STIFF light brown SILTY LOAM			1.8 P	18		654.90	2	0.5 S	22	
STIFF tan SILTY LOAM	673.90	4								
	672.40	3	2.0 P	8		652.40	3	0.4 B	19	
STIFF tan SILT, very dry										
	669.90	3	1.1 P	6		649.40	3	0.8 S	17	
STIFF/MEDIUM tan SILT, dry										
	667.40	3	1.0 P	12		646.90	2	1.5 B	17	
MEDIUM tan SILT, dry										
	664.90	3	0.8 P	11		644.90	1			
STIFF/MEDIUM tan SILT, dry										
	662.40	4	1.0 P	10						
MEDIUM tan SILT, dry										
	659.90	2	0.5 P	12						
MEDIUM tan SILT, dry										
	657.40	3	0.9 P	17						
MEDIUM tan SILT										

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)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph (309) 676-8464
FAX (309) 676-5445
IL Design Firm Reg. No. 184-001518

12/28/2005 10:11:16 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	10
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		11 SHEETS

Contract No. 64969



Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG

Page 1 of 1

Date 3/4/03

ROUTE FA 309 DESCRIPTION Retaining wall, US 30 in Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION Mt. Pleasant Twp. - NW 18, SEC. , TWP. 21N, RNG. 4E
COUNTY Whiteside DRILLING METHOD Auger Boring HAMMER TYPE Minuteman Auger

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/ft)	(tsf)	(%)	ft	ft	ft	ft	ft	ft
18" Frost											
SOFT brown dry SILTY LOAM	1932+25										
VERY SOFT dry tanish brown SILTY LOAM	667.40			0.0 P	9						
Same as above, tan, dry	664.40				11						
Same as above	661.40			0.2 P	12						
SOFT Same as above, dry	658.40			0.3 P	22						
fine SAND lens tan	654.40										
VERY SOFT tan SILTY LOAM	653.40										
End of Boring	652.40			0.2 P	21						

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
DOT

SOIL BORING LOG

Page 1 of 1

Date 10/27/04

ROUTE FA 309 DESCRIPTION Retaining Wall, US 30 east edge of Morrison LOGGED BY J. Strating
SECTION 16RS LOCATION Mt. Pleasant Twp. - SW 17, SEC. , TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/ft)	(tsf)	(%)	ft	ft	ft	ft	ft	ft
STIFF brown CLAY LOAM				1.0 P	12						
STIFF brown SILTY LOAM	666.00		8	1.5 P	20						
STIFF brown SILTY CLAY	664.50		2	1.5 P	20						
STIFF tan/brown SANDY LOAM	661.50		3	1.3 S	18						
MEDIUM tan/brown SILT	659.00		3	0.75 P	18						
Same as above	657.00		2	0.5 P	18						
SOFT tan/brown SILT	654.50		2	0.25 P	25						
Same as above	652.00		1	0.25 P	24						
Same as above	649.50		2	0.25 P	24						

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)

DESIGNED	LLV
CHECKED	P.JL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

STS CONSULTANTS
111 NE Jefferson Ave.
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FAX(309)676-5445
IL Design Firm Reg. No. 184-001518

10/27/04 10:11:51 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	647	182
FED. ROAD DIST. NO. 4	ILLINOIS	RELATED PROJECT		

Contract No. 64969



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3/4/03

ROUTE FA 309 DESCRIPTION Retaining wall, US 30 in Morrison LOGGED BY W. Garza
SECTION 16RS LOCATION MI. Pleasant Twp. - NW 18, SEC. , TWP. 21N, R1G. 4E
COUNTY Whiteside DRILLING METHOD Auger Boring HAMMER TYPE Minuteman Auger

STRUCT. NO.	DEPT	BLOCS	UCS	MOST	Surface Water Elev.	DEPT	BLOCS	UCS	MOST
Station	H S	Qu	(tsf)	(%)	ft	H S	Qu	(tsf)	(%)
1133+00					ft				
BORING NO. <u>B-13a</u>					Stream Bed Elev.				
Station <u>1133+00</u>					ft				
Offset <u>28.00ft LT of CL</u>					Groundwater Elev.:				
Ground Surface Elev. <u>673.2</u>					ft				
					First Encounter				
					ft				
					Upon Completion				
					ft				
					After Hrs.				
					ft				
1' Frost					VERY SOFT tan SILTY LOAM				
MEDIUM brown SILTY LOAM with ORGANICS		0.5 P	12		(continued)				
					652.20				
					MEDIUM tan SILTY CLAY LOAM			0.6 P	16
VERY SOFT (very dry) tan SILT			6						
					670.20				
Same as above					667.20				
Same as above					664.20				
Same as above					661.20				
SOFT tan SILT LOAM		0.25 P	23		658.20				
VERY SOFT tan SILTY LOAM		0.4 P	21		655.20				

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)

DESIGNED	LLV
CHECKED	PJL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
RETAINING WALL NO. 2
U.S. RTE. 30 (LINCOLN HIGHWAY)
EAST OF SYCAMORE ST.
F.A.P. ROUTE 309 SECTION 16 R-2
WHITESIDE COUNTY
STA. 1131+71.68 TO
STA. 1133+44.95 (LT.)
STRUCTURE NO. 098-7002

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IL Design Firm Reg. No. 184-001518

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	641	183
FED. ROAD DIST. NO. 6	ILL. ROAD	FED. AID PROJECT		

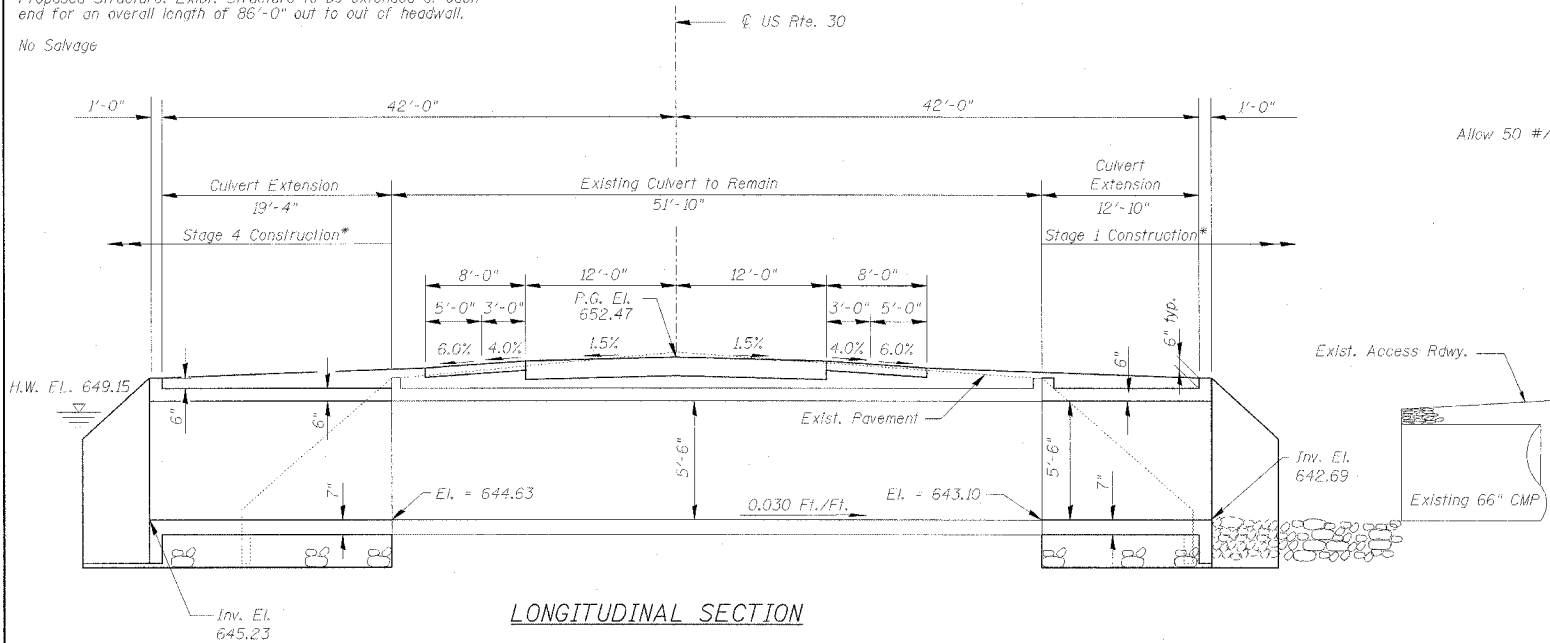
SHEET NO. 1
5 SHEETS

Benchmark: Chisled square on top of Northeast wingwall of Structure 098-2025, Sta. 1158+20.0592 Lt., El. = 640.488.

Existing Structure: The existing structure constructed around 1953 is a concrete 4'-0" x 5'-6" single box culvert.

Proposed Structure: Exist. Structure to be extended at each end for an overall length of 86'-0" out to out of headwall.

No Salvage



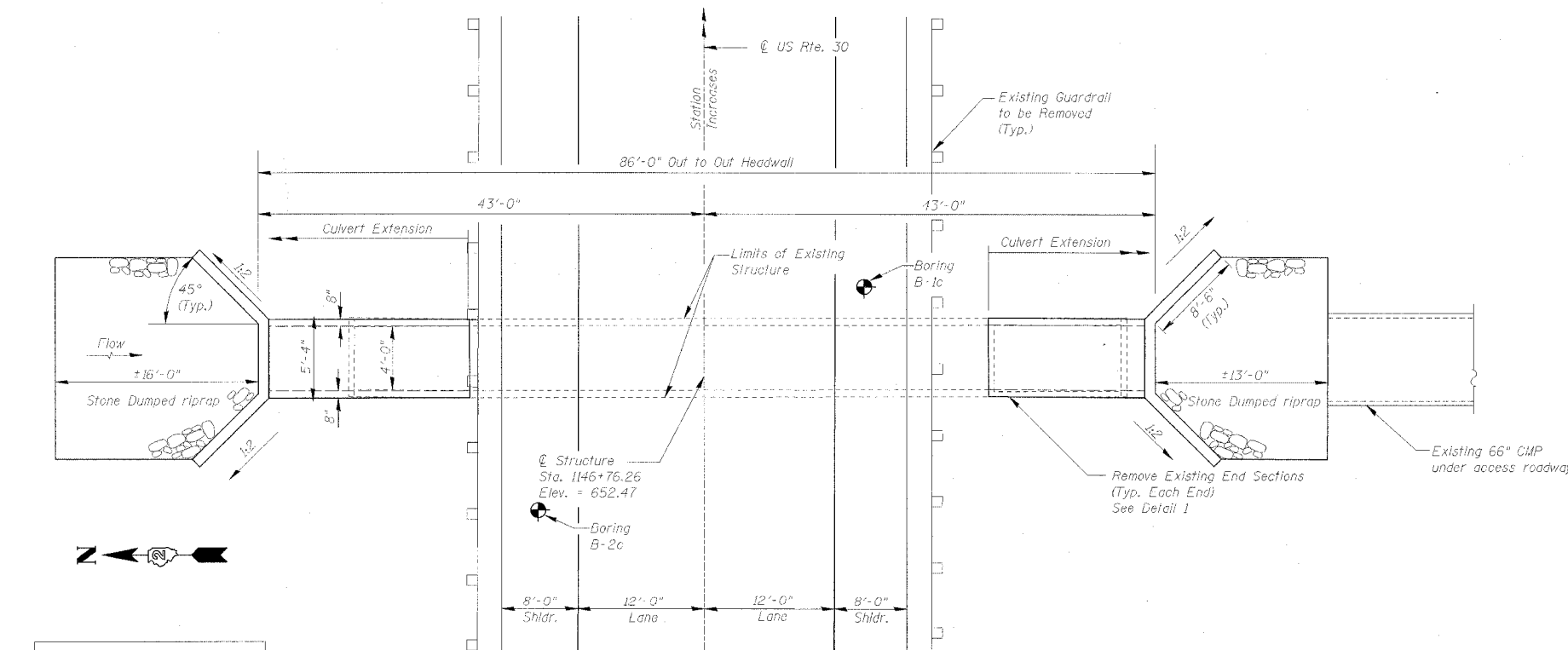
LONGITUDINAL SECTION

(Horizontal Dimensions at Rt. Angles to \bar{C} Roadway)

* Refer to Roadway Maintenance of Traffic Plans for traffic staging details

INDEX OF SHEETS

1. General Plan
2. Culvert Details
3. Culvert and Wingwall Details
4. Boring Logs



PLAN

DESIGNED	GEK
CHECKED	LSA
DRAWN	GEK
CHECKED	LSA

LOADING HS20-44

Allow 50 #/sq. ft. for future wearing surface new extensions only

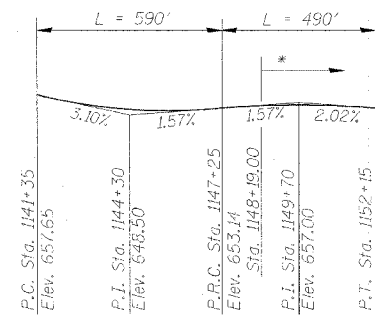
DESIGN SPECIFICATIONS

2002 AASHTO "Standard Specifications for Highway Bridges"

DESIGN STRESSES

FIELD UNITS

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



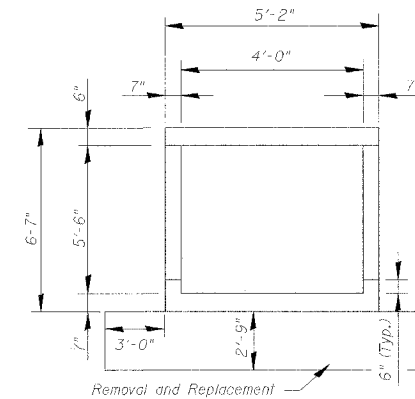
PROFILE GRADE US RTE 30

(along \bar{C} roadway)

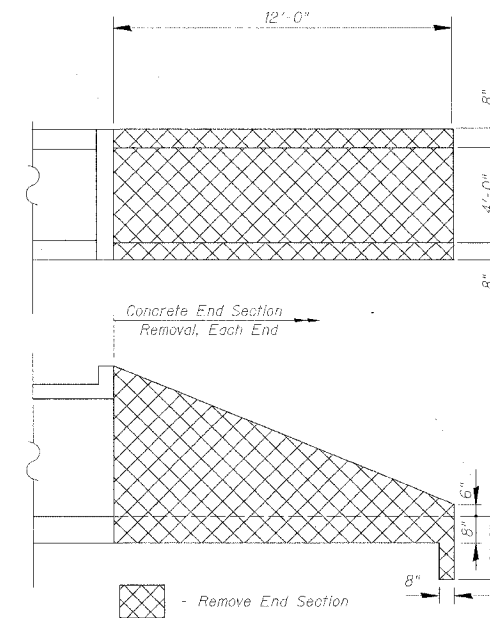
* Crown /PGL transition. See plan and profile sheets for additional information.

GENERAL NOTES

- Precast alternate is not allowed.
- Exposed edges shall be beveled $\frac{3}{4}$ ", unless otherwise noted.
- For backfilling and embankment see Standard Specifications.
- At least 7' of the barrel shall be poured monolithically with wingwall.
- Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and $\frac{3}{4}$ " ϕ x 12" hooked bolts.



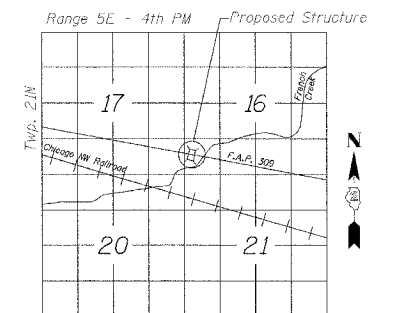
SECTION THRU BARREL



DETAIL 1

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	24.7
Reinforcement Bars	Pound	3,336
Expansion Bolts $\frac{3}{4}$ "	Each	38
Breaker Run Crushed Stone	Ton	75
Stone Dumped Riprap Class A4	Sq. Yd.	46
Remove Concrete Box Culvert End Section	Each	2
Remove and Dispose of Unsuitable Material	Cu. Yd.	37



LOCATION SKETCH

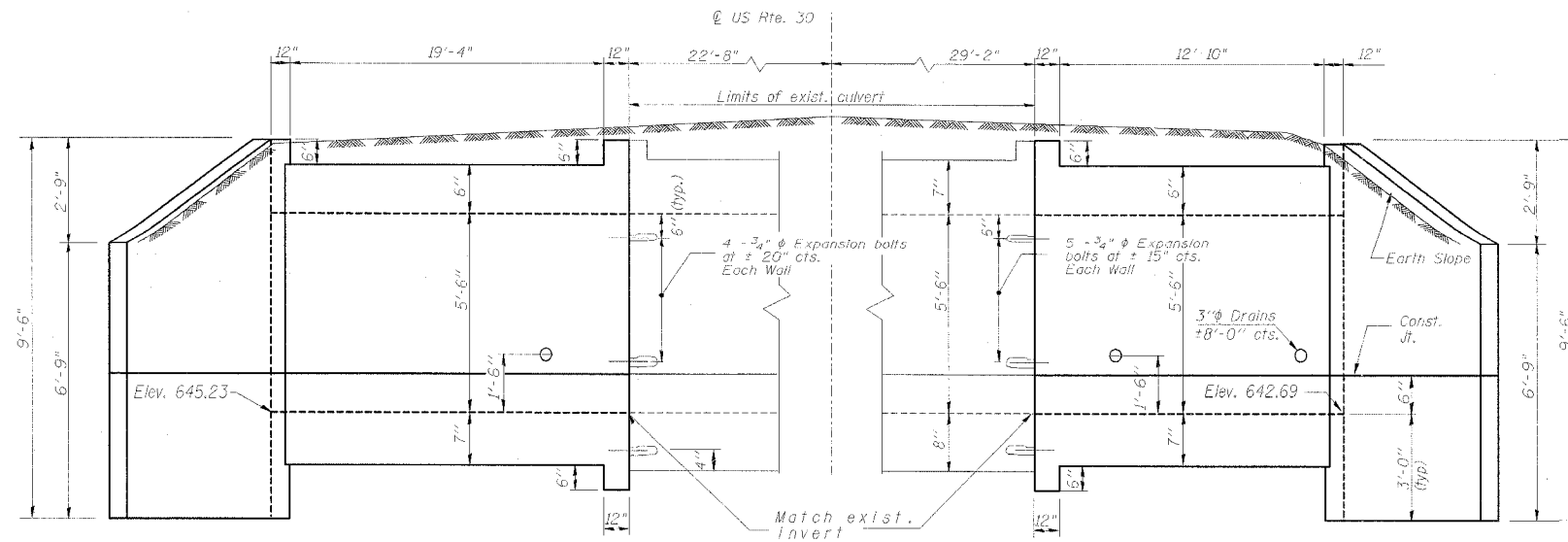
GENERAL PLAN
US RTE. 30 - CATTLE PASS
F.A.P. ROUTE 309 SECT. 16 BR-1
WHITESIDE COUNTY
STATION 1146+76.26



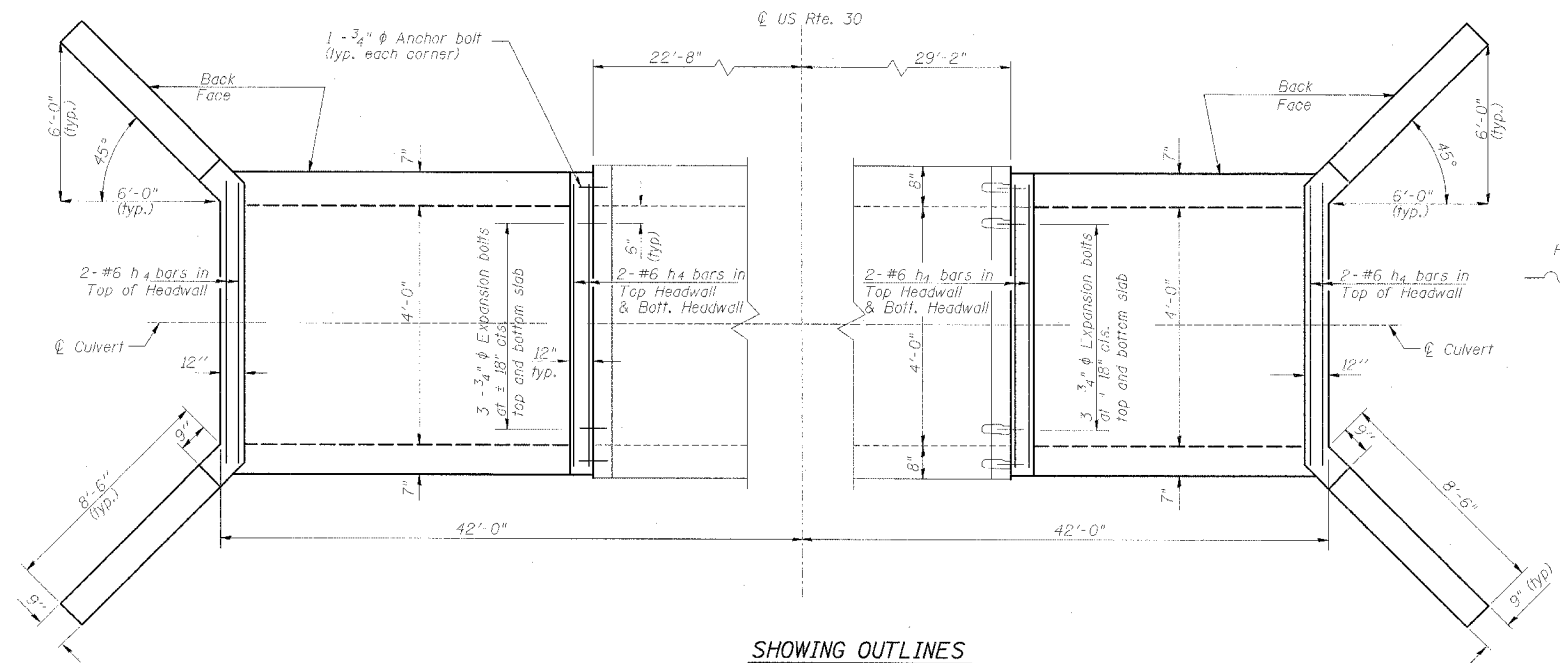
111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 5 SHEETS
F.A.P. 309	16R-2	WHITESIDE	547	184	
FED. ROAD DIST. NO. 2	DISTRICTS	FED. AID PROJECT			

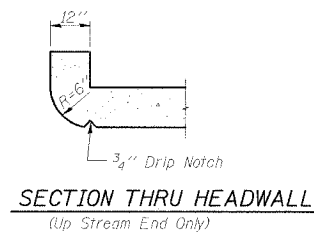


ELEVATION



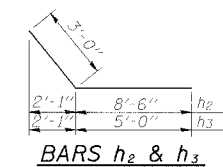
SHOWING OUTLINES

NOTE:
Work this sheet with sheet 3 of 5.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1	134	#5	6'-0"	U	
a2	20	#4	4'-3"	—	
d	10	#4	4'-6"	L	
h	19	#5	21'-1"	—	
h1	10	#4	21'-1"	—	
h2	32	#5	11'-6"	—	
h3	28	#5	8'-0"	—	
h4	12	#6	4'-10"	—	
h5	19	#5	14'-7"	—	
h6	10	#4	14'-7"	—	
y	98	#4	6'-0"	—	
v1	16	#4	9'-0"	—	
Concrete Box Culverts				Cu. Yd.	24.7
Reinforcement Bars				Pound	3,336
Expansion Bolts 3/4" φ				Each	38



BARS h₂ & h₃



BAR a₁



BAR d

CULVERT DETAILS
US RTE. 30 - CATTLE PASS
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1146+76.26

DESIGNED	GEK
CHECKED	LSA
DRAWN	GEK
CHECKED	LSA

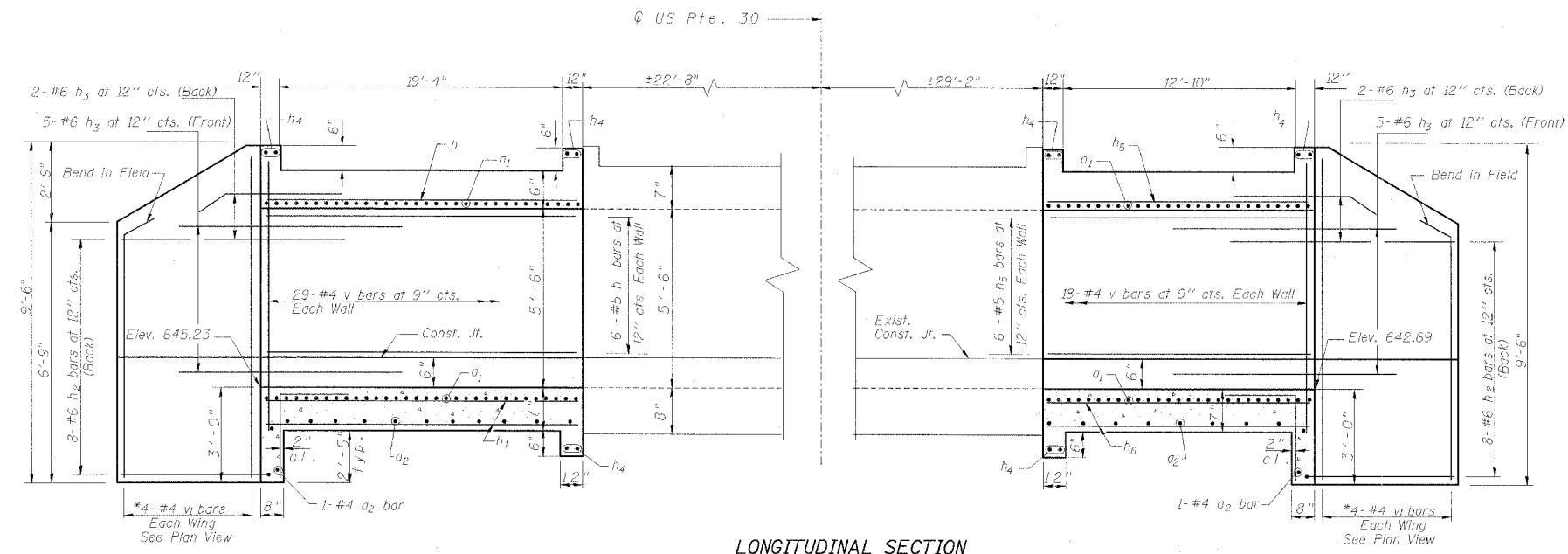


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IL Design Firm Registration
No. 184-001518

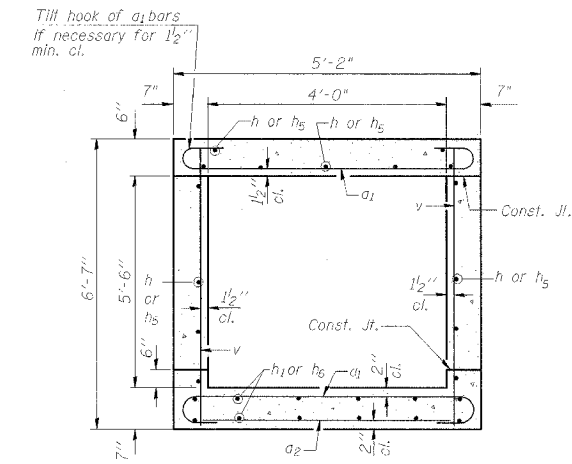
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	641	185
FED. ROAD DIST. NO. 2	ILL. INDEX	FED. AID PROJECT		

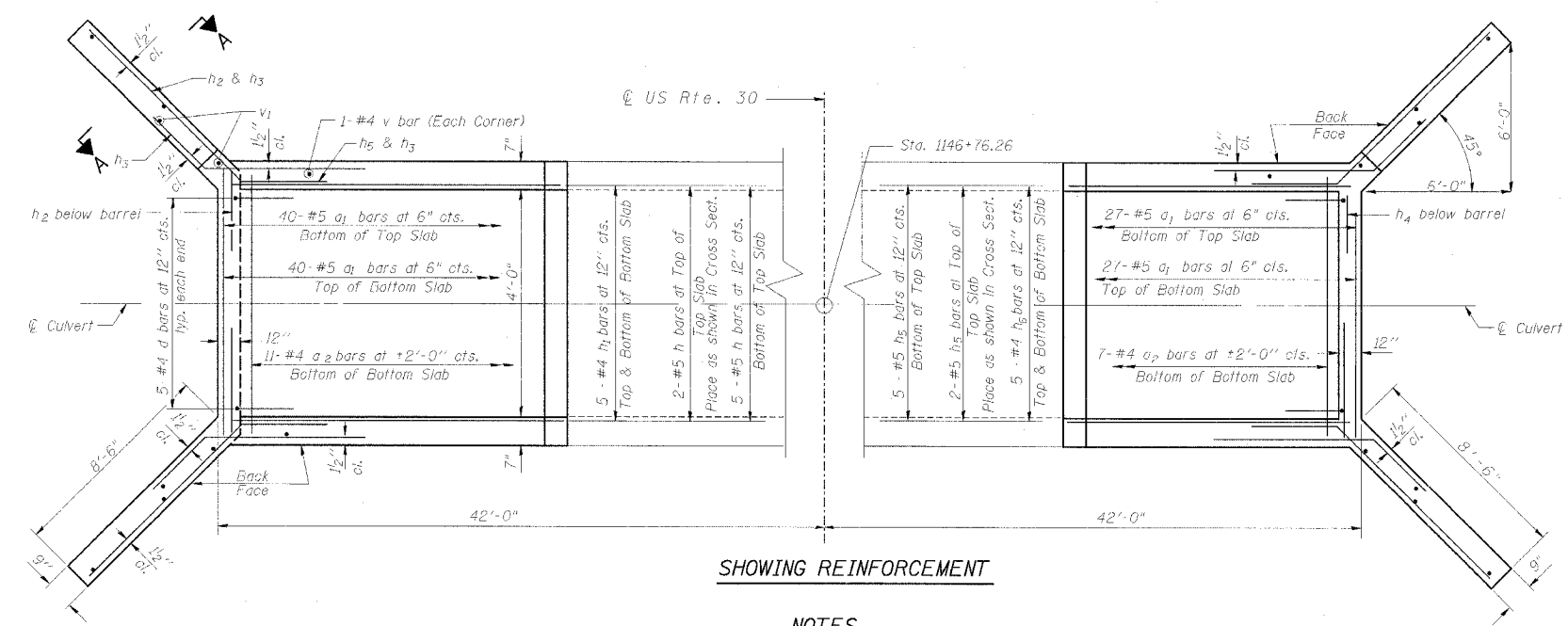
SHEET NO. 3
5 SHEETS



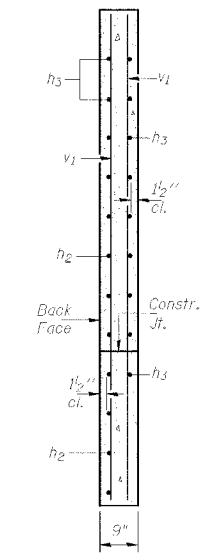
LONGITUDINAL SECTION



SECTION THRU BARREL



SHOWING REINFORCEMENT



SECTION A-A

NOTES

A distance of half the length of the wingwall but not less than seven feet of the barrel shall be poured monolithically with the wingwalls.
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
All construction joints shall be bonded.

NOTE:
Work this sheet with sheet 2 of 5.

DESIGNED	GEK
CHECKED	LSA
DRAWN	GEK
CHECKED	LSA

CULVERT & WINGWALL DETAILS
US RTE. 30 - CATTLE PASS
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1146+76.26



111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	180
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

Page 1 of 2

Date 5/1/02

SOIL BORING LOG

ROUTE FAP 309 DESCRIPTION P82-140-00 Culvert on US 30 in Morrison, 0.2 m. W. of Bishop Road LOGGED BY C. Jenkins

SECTION 16RS-2 LOCATION Mt. Pleasant Twp. - SE, SEC. 17, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. 1146-76 Station 1146+76

BORING NO. B-1c Station 7146+86 Offset 15.00ft RL CL Ground Surface Elev. 99.3 ft

DEPTH (ft)	DESCRIPTION	U (psi)	M (lb/ft)	SPT (blows)	WATER	TEMP.
0	MEDIUM tan SAND & GRAVEL					
1	MEDIUM gray fine SAND with some GRAVEL					
5	MEDIUM tan/gray SILT	2	19			
10	MEDIUM tan SANDY LOAM	3	16			
15	MEDIUM brown tan SILT	2	24			
20	MEDIUM tan SILTY LOAM	0	23			
25	SOFT tan/gray SILT	1	25			
30	VERY SOFT tan/gray SILT	2	25			
35	VERY SOFT tan/gray SILT with a SAND lens	0	23			
40	VERY SOFT tan SILT with SAND lenses	1	23			

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, Form 137 (Rev. 8-99)

Page 2 of 2

Date 5/1/02

SOIL BORING LOG

ROUTE FAP 309 DESCRIPTION P82-140-00 Culvert on US 30 in Morrison, 0.2 m. W. of Bishop Road LOGGED BY C. Jenkins

SECTION 16RS-2 LOCATION Mt. Pleasant Twp. - SE, SEC. 17, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. 1146-76 Station 1146+76

BORING NO. B-1c Station 7146+86 Offset 15.00ft RL CL Ground Surface Elev. 99.3 ft

DEPTH (ft)	DESCRIPTION	U (psi)	M (lb/ft)	SPT (blows)	WATER	TEMP.
5	Wash					
7	MEDIUM tan fine SAND with a SILT lens					
15	Wash					
33	VERY DENSE yellow weathered LIMESTONE					
42	Wash					
22	Same as above					
38	Same as above					
32	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, Form 137 (Rev. 8-99)

DESIGNED	GEK
CHECKED	LSA
DRAWN	GEK
CHECKED	LSA

STB
SBS CONSULTANTS


111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	18R-2	WHITESIDE	541	181
FED. ROAD DIST. NO. 2	ILLINOIS	FFR. ROAD DIST. NO. 2		

SHEET NO. 5
5 SHEETS



Illinois Department of Transportation
Division of Highways
Mark A. Dixon

SOIL BORING LOG

Page 1 of 2

Date 5/2/02


ROUTE FAP 309 DESCRIPTION P92-140-00 Culvert on US 30 in Morrison, 0.2 m. W. of Bishop Road LOGGED BY C. Jenki

SECTION 18RS-2 LOCATION Mt. Pleasant Twp. - SE, SEC. 17, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. Station	D E P T H ft	B L O C K S	U C S Qu	M O I S T %	Description	D E P T H ft	B L O C K S	U C S Qu	M O I S T %
1145+76					Surface Water Elev. <u>92.8</u> ft Stream Bed Elev. <u>89.5</u> ft				
B-2c 1148+68					Groundwater Elev.: First Encounter <u>84.5</u> ft Upon Completion <u>Wash</u> ft After <u>Wash</u> ft				
18.00ft LI CL					Ground Surface Elev. <u>99.6</u> ft				
			0.8	20	MEDIUM tan/gray SAND & GRAVEL	78.10	6		
					Begin Wash				
			1.1	20	MEDIUM gray fine to medium grained SAND	75.60	9		
					SOFT gray SILT	73.10	2	0.3	24
			0.5	20	VERY SOFT gray SILT	70.60	1	0.2	27
					SOFT gray SILT	68.10	2	0.3	29
			2.1	20	SOFT gray SILT	65.60	3	0.3	27
			0.3	25	MEDIUM gray SILT with a SAND lens	63.10	2	0.6	24
			0.1	24	MEDIUM tan SAND with LIMESTONE fragments	60.60	5		

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 T208)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Mark A. Dixon

SOIL BORING LOG

Page 2 of 2

Date 5/2/02

ROUTE FAP 309 DESCRIPTION P92-140-00 Culvert on US 30 in Morrison, 0.2 m. W. of Bishop Road LOGGED BY C. Jenki


SECTION 18RS-2 LOCATION Mt. Pleasant Twp. - SE, SEC. 17, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. Station	D E P T H ft	B L O C K S	U C S Qu	M O I S T %	Description	D E P T H ft	B L O C K S	U C S Qu	M O I S T %
1146+76					Surface Water Elev. <u>89.8</u> ft Stream Bed Elev. <u>82.2</u> ft				
B-2c 1148+68					Groundwater Elev.: First Encounter <u>84.5</u> ft Upon Completion <u>Wash</u> ft After <u>Wash</u> ft				
18.00ft LI CL					Ground Surface Elev. <u>99.6</u> ft				
					MEDIUM tan fine SAND with a SILT lens	88.10	3		
					Wash				
					MEDIUM tan fine SAND & GRAVEL with a SILT lens	85.60	2		
					Wash				
					MEDIUM tan SAND with LIMESTONE fragments	83.10	2		
					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 T208)
BBS, from 137 (Rev. 8-99)

DESIGNED	GEK
CHECKED	LSA
DRAWN	GEK
CHECKED	LSA



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No. 184-001518

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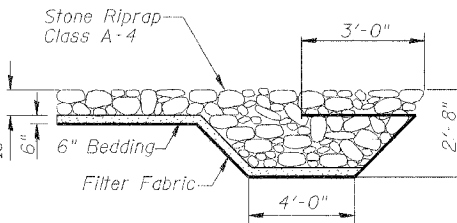
Benchmark: Chiseled square on top of Northeast wingwall, Sta. 1158+20.0592, 22.1043' Lt., El. = 640.488

Existing Structure: The existing structure, constructed in 1953, has no structure number. The structure is a 10'x6' single barrel R.C. box culvert with a 45'-4" out-to-out length. Section and route of the existing structure are 16RS-3, F.A.P. 309 (US 30). Traffic to be maintained utilizing Stage Construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

☉ and P.G. Existing & Proposed US Rte. 30



STONE RIPRAP ANCHOR DETAIL

ROUTE NO.	SECTION	COUNTY	PROJECT NO.	SHEET NO.	SHEET NO. 1
F.A.P. 309	16R-2	WHITESIDE	547	188	7 SHEETS
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT	

Contract # 64969

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO "Standard Specifications for Highway Bridges"

DESIGN STRESSES

FIELD UNITS

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

INDEX OF SHEETS

1. General Plan & Elevation
2. Stage Construction & General Notes
3. Top & Bottom Slab Layout
4. Culvert Section & Details
5. Bar Splicer Details
6. Boring Logs
7. Boring Logs

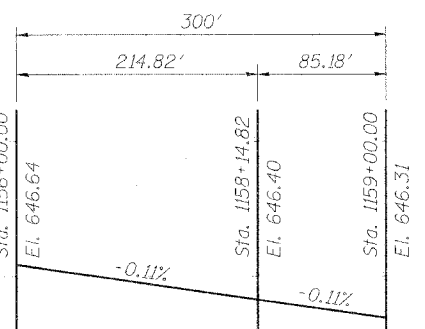
WATERWAY INFORMATION

Drainage Area = 0.52 sq. mi		West Culvert		Exist. Low Grade Elev. 641.50 @ Sta. 1163+50		Prop. Low Grade Elev. 645.91 @ Sta. 1163+50			
Flood	Freq. Yr.	Prop. Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	*Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Overtop (Exist.)	10	75	60	181.4	640.77	0.53	0.09	641.30	640.86
Design	50	677	60.0	240.0	641.89	0.74	0.28	642.63	642.17
Base	100	857	60.0	240.0	642.19	0.58	0.54	642.77	642.73
Max. Calc.	500	1237	---	240.0	643.13	0.04	1.03	643.17	644.16

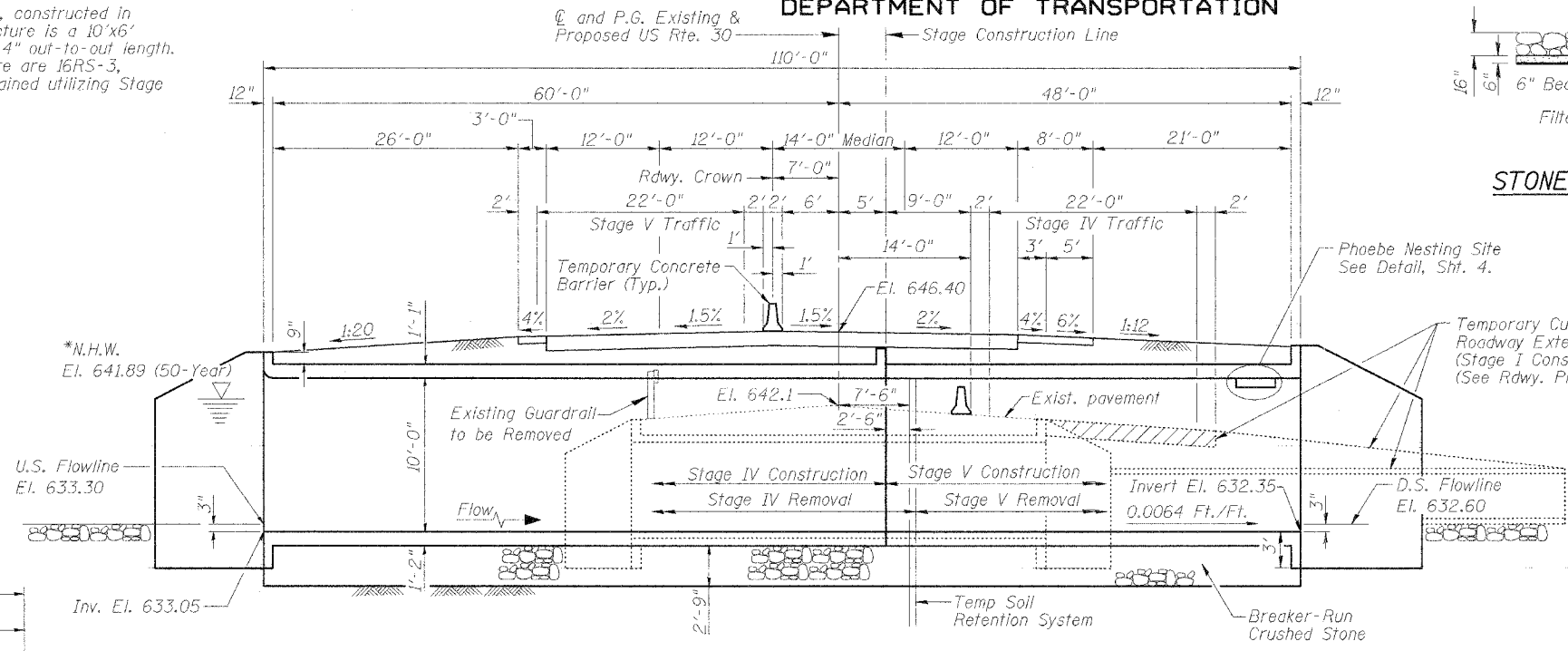
10-Yr. velocity through existing West Culvert = 5.84 fps * Upstream Face of Culvert
10-Yr. velocity through proposed West Culvert = 4.04 fps

STATION 1158+14.82
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. ROUTE 309
SEC. 16R-2
LOADING HS20
STR. NO. 098-2025

NAME PLATES
See Std. 515001

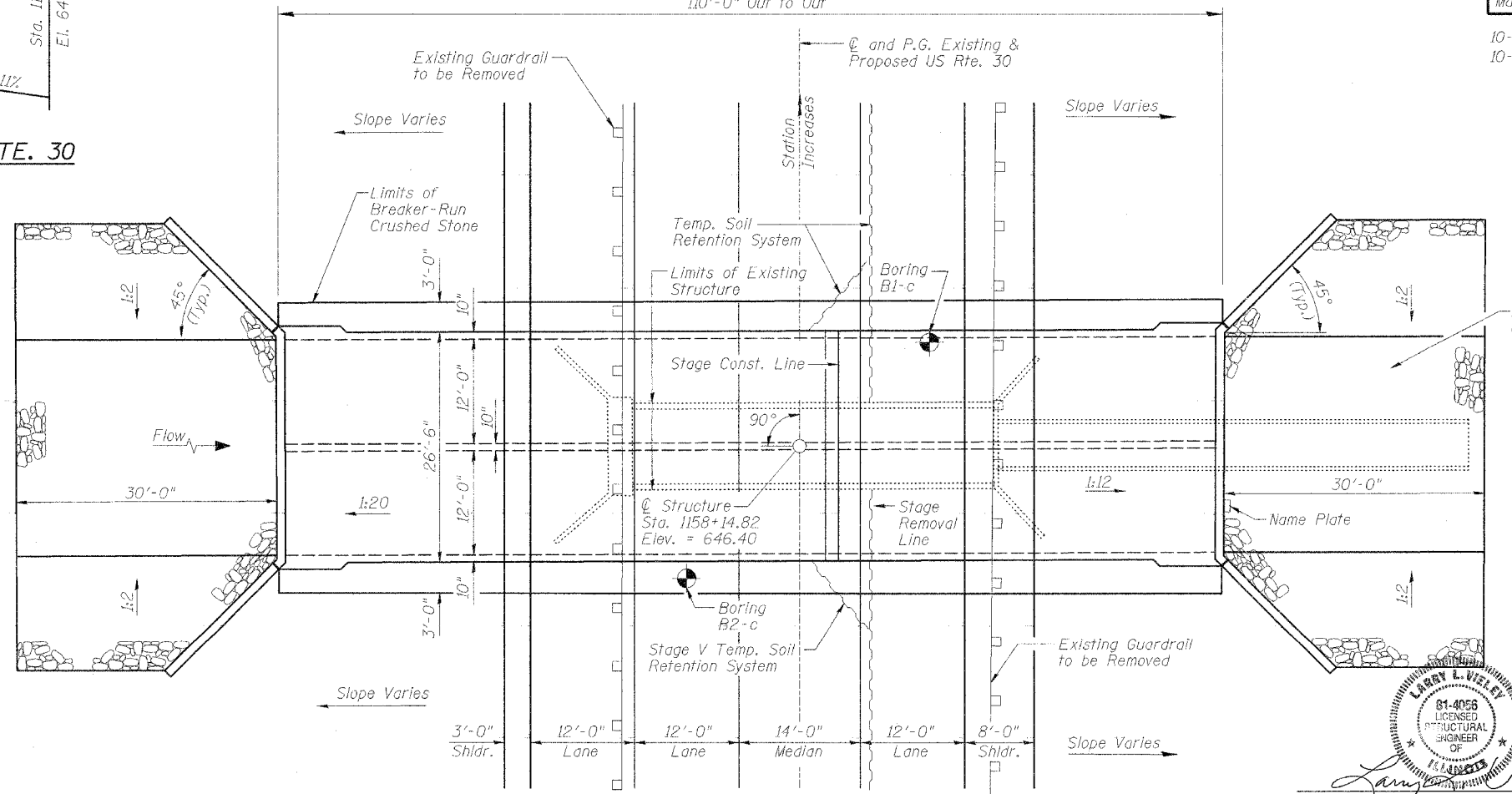


PROFILE GRADE U.S. RTE. 30
(Along ☉ Roadway)



LONGITUDINAL SECTION

N.T.S Looking East
(Horizontal Dimensions at Rt. Angles to ☉ Roadway)



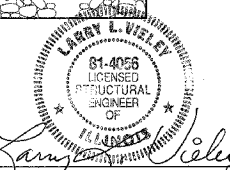
PLAN

N.T.S

Boring Locations Indicated Thus: ⚪

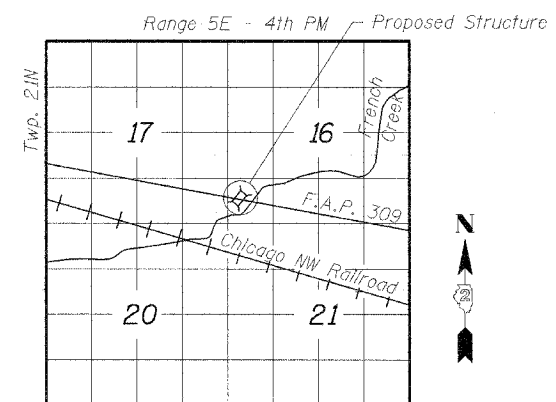
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Adams
ENGINEER OF BRIDGES AND STRUCTURES



Larry L. Vieley
Illinois Registered Structural Engineer
NO. 081-004056
License Expires: November 30, 2006

Date: 01/10/2006



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 64-00156

DESIGNED	LLV
CHECKED	LLV
DRAWN	MGM
CHECKED	LLV

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	189
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

Contract # 64969

GENERAL NOTES

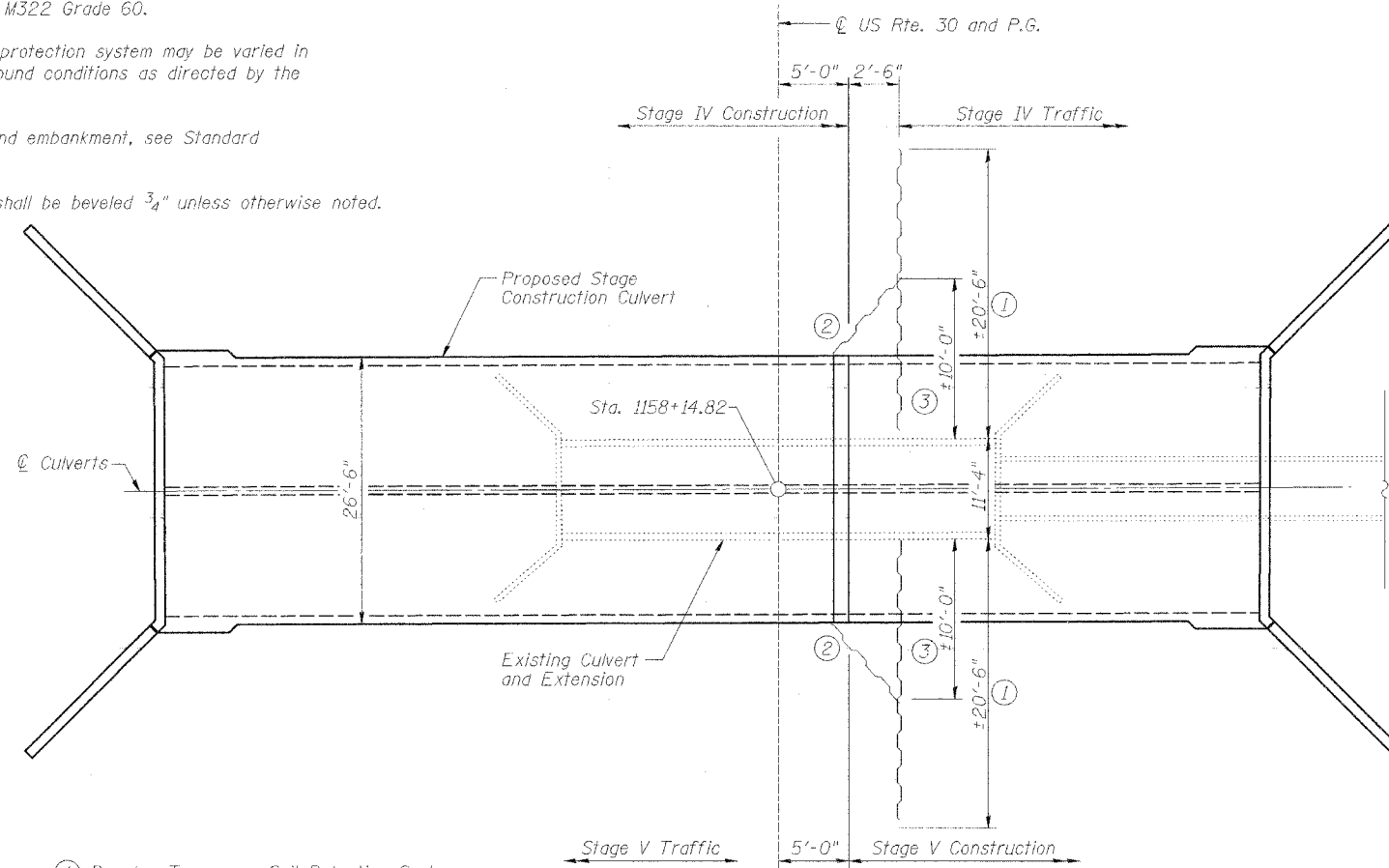
1. Pre-cast alternate not allowed.
2. The limits and quantities of removal shown are based on the boring data and may be modified by the District Geotechnical Engineer and field engineers for variable subsurface conditions encountered in the field.
3. Contact District Geotechnical Engineer so a dynamic core penetration test can be performed to determine actual limits of excavation of unsuitable material in the field.
4. All construction joints shall be bonded.
5. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
6. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
7. For backfilling and embankment, see Standard Specifications.
8. Exposed edges shall be beveled $\frac{3}{4}$ " unless otherwise noted.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Breaker-Run Crushed Stone	Ton	747
Name Plates	Each	1
Removal and Disposal of Unsuitable Material	Cu. Yd.	364
Removal of Existing Structures	Each	1
Concrete Box Culverts	Cu. Yd.	386.1
Reinforcement Bars	Pound	68,510
Stone Riprap, Class A4	Sq. Yd.	289
Filter Fabric	Sq. Yd.	289
Bar Splacers	Each	140
Temporary Soil Retention System	Sq. Ft.	560

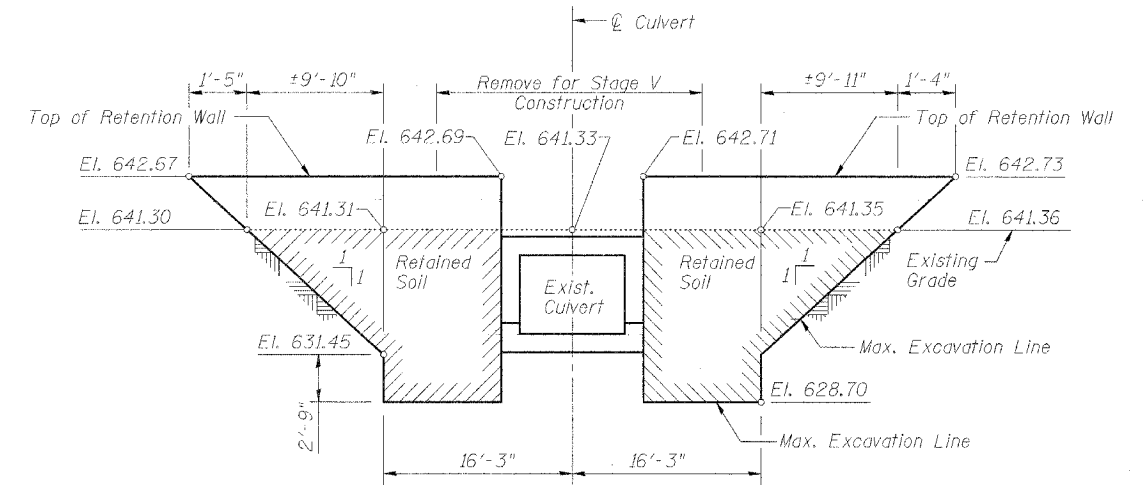
BOX CULVERT DESIGN CRITERIA

f Min. / f Max. (Feet)	Design Fill Height (F) (Feet)	AASHTO Designation
2' ≤ f Min. ≤ 3'	2'	M259

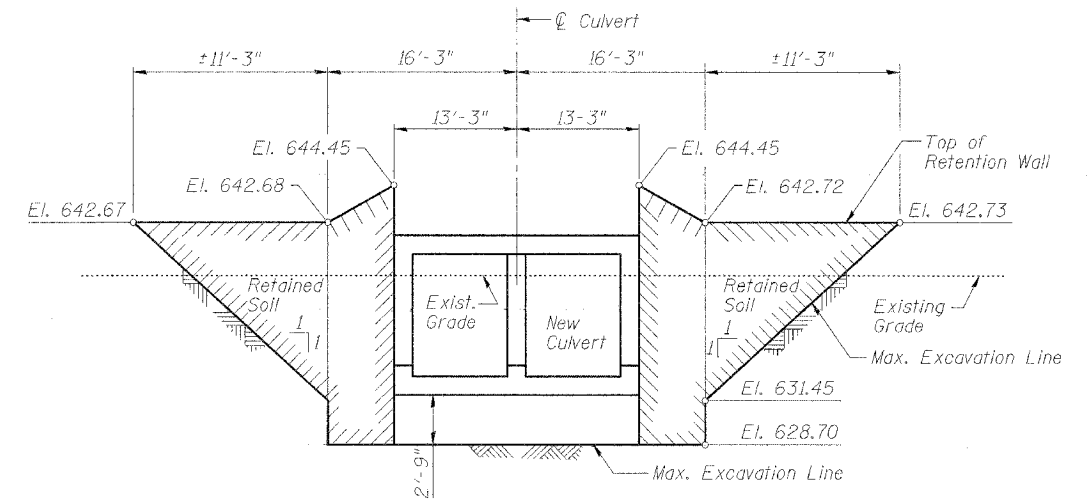


- ① Denotes Temporary Soil Retention System for Stage IV Traffic and Construction.
- ② Denotes additional Temporary Soil Retention System required for backfilling of Stage IV Construction.
- ③ Denotes removal of Temporary Soil Retention System prior to Stage V Construction.

PLAN
N.T.S.



STAGE IV RETENTION



STAGE V RETENTION

STAGE CONSTRUCTION
AND GENERAL NOTES
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

DESIGNED	LLV
CHECKED	BL
DRAWN	MGM
CHECKED	LLV

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 64-00156

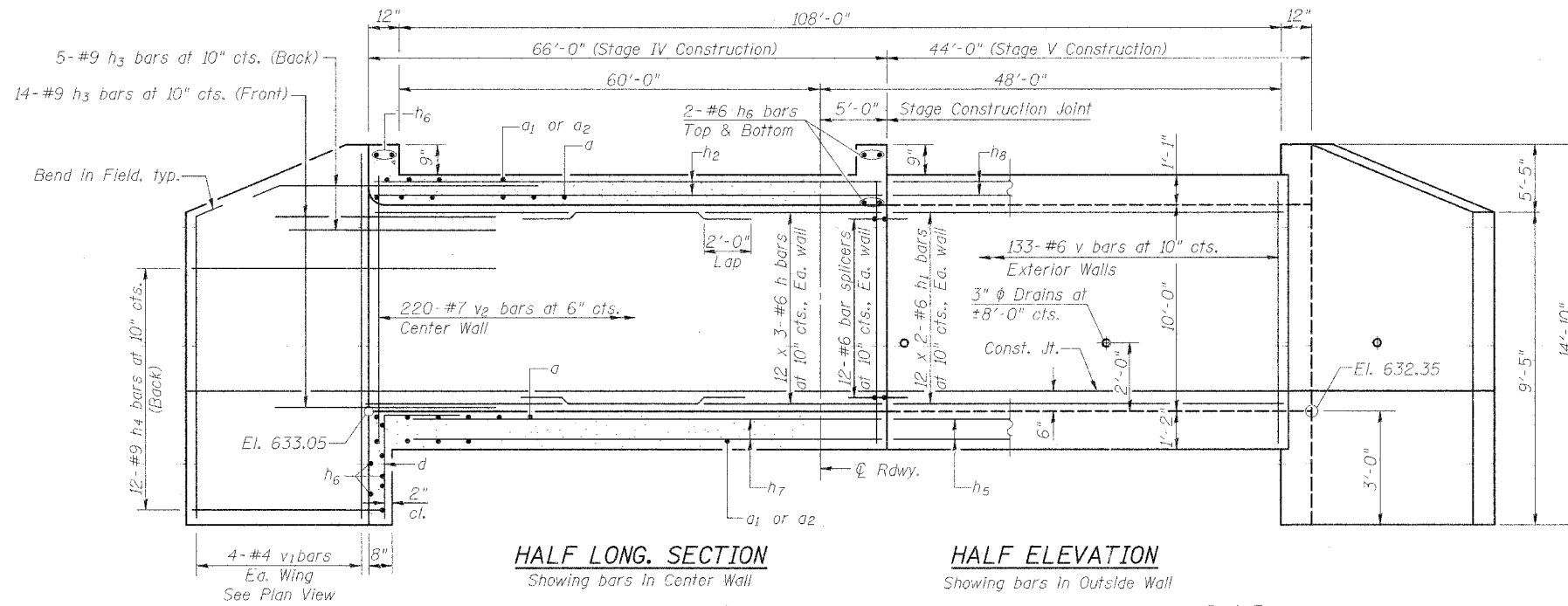
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	190
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3

7 SHEETS

Contract # 64969



MIN. BAR LAPS

#5 = 1'-8"
#6 = 2'-0"

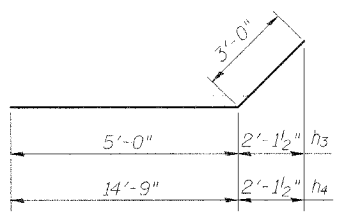
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	220	#9	28'-8"	U
a1	266	#9	10'-0"	—
a2	228	#4	10'-1"	—
d	54	#4	4'-6"	L
h	108	#6	23'-3"	—
h1	72	#6	22'-10"	—
h2	162	#5	23'-0"	—
h3	76	#9	8'-0"	—
h4	48	#9	17'-9"	—
h5	128	#5	22'-8"	—
h6	18	#6	26'-0"	—
h7	192	#5	23'-0"	—
h8	108	#5	22'-8"	—
v	270	#6	11'-11"	—
v1	16	#4	14'-6"	—
v2	220	#7	11'-11"	—
Concrete Box Culverts			Cu. Yd.	386.1
Reinforcement Bars			Pound	68,510

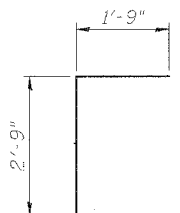
See Sht. 4 for Section A-A.
See Sht. 4 for Section Thru Culvert Barrel.

TOP AND BOTTOM SLAB LAYOUT
PLAN FOR TWO CELL CULVERT
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

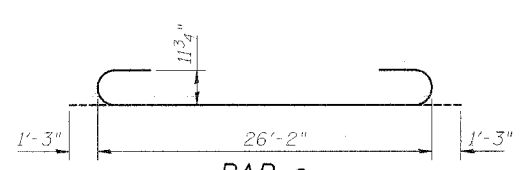
STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph (309) 676-8464
FAX (309) 676-5445
IL Design Firm Reg. No. 64-00156



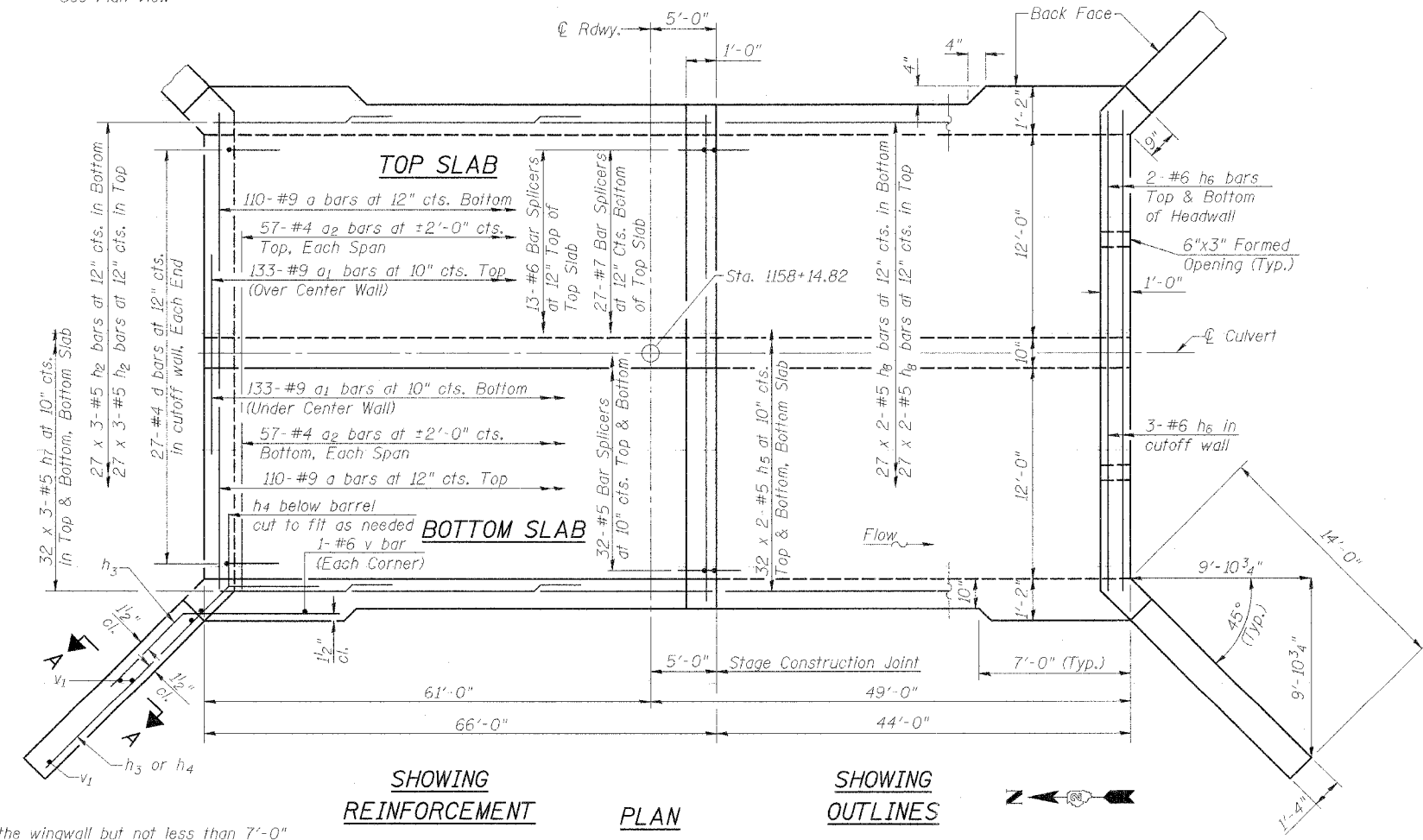
BARS h3 & h4



BAR d



BAR a



SHOWING REINFORCEMENT PLAN

SHOWING OUTLINES

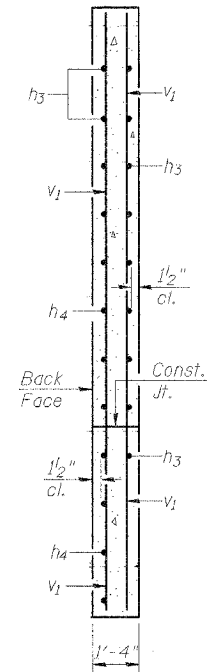
DESIGNED	LLV
CHECKED	e
DRAWN	MGM
CHECKED	LLV

- Notes:
1. A distance of half the length of the wingwall but not less than 7'-0" of the barrel shall be poured monolithically with the wingwalls.
 2. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of #5 bars with 4 lengths per line.

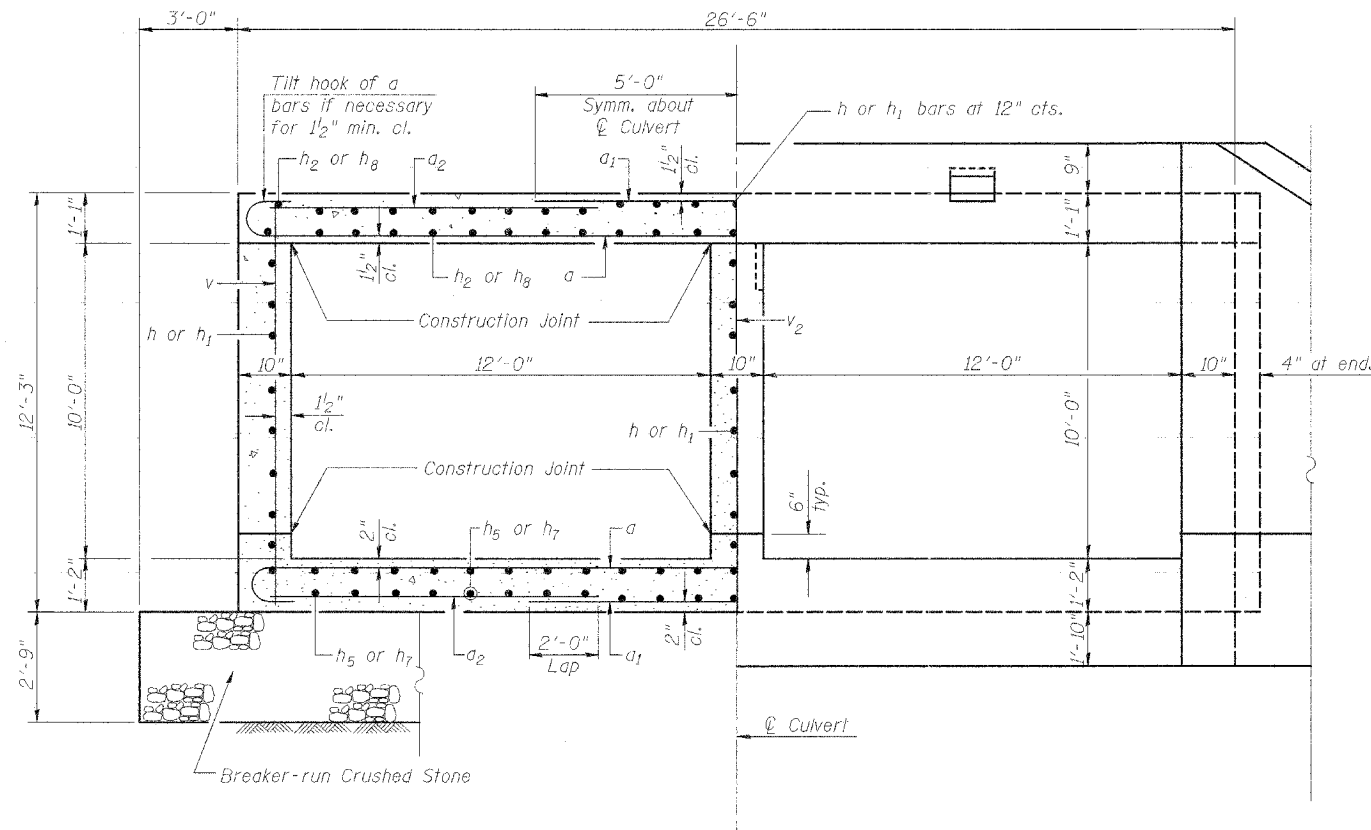
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
F.A.P. 309	16R-2	WHITESIDE	577	191	7 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract # 64969



SECTION A-A
Wing Wall

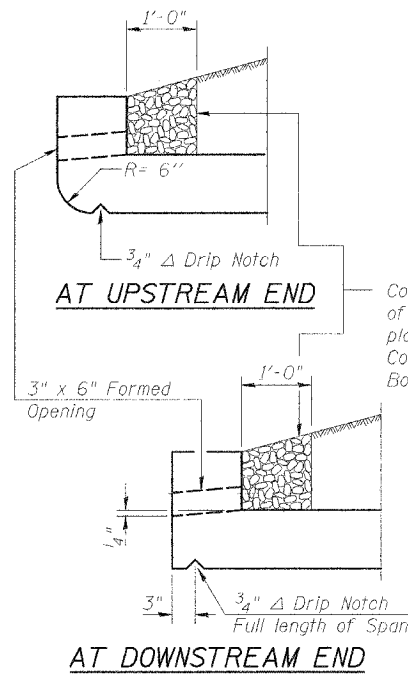


HALF SECTION
THRU BARREL

HALF END ELEVATION

Note:

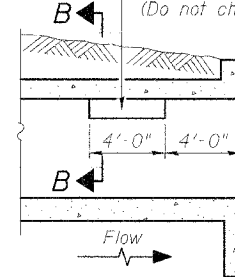
1. A distance of half the length of the wingwall but not less than 7'-0" of the barrel shall be poured monolithically with the wingwalls.



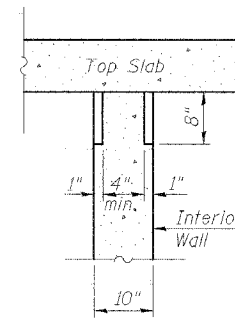
DRAIN DETAIL

DESIGNED	LLV
CHECKED	BL
DRAWN	MGM
CHECKED	LLV

Notch formed by rough finished board attached to and removed with formwork, each interior wall. (Do not chamfer).



LONGITUDINAL
SECTION



SECTION B-B

PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

Note:
Work this sheet with Sht. 3.

CULVERT SECTION AND DETAILS
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 64-00156

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	192	7 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract # 64969

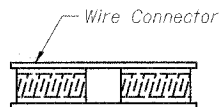
The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



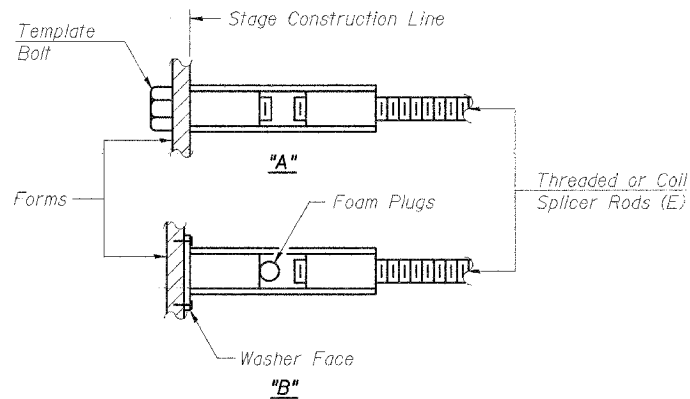
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

NOTES

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

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

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

Where f_y = Yield strength of lapped reinforcement bars in ksi.

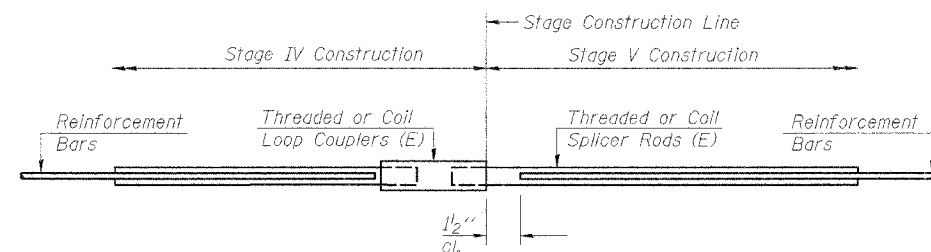
$f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_T = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

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

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



STANDARD

Bar Size	No. Assemblies Required	Location (Stage Construction Joint)
#5	64	Long. bars, top & bottom of bottom slab
#6	49	Long. bars in walls, top of top slab
#7	27	Long. bars in bottom of top slab
Total	140	

DESIGNED	LLV
CHECKED	B
DRAWN	MGM
CHECKED	LLV

BAR SPLICER DETAILS
 US RTE. 30 OVER UNNAMED CREEK
 F.A.P. ROUTE 309 SECT. 16R-2
 WHITESIDE COUNTY
 STATION 1158+14.82
 STRUCTURE NO. 098-2025

STS CONSULTANTS
 111 NE Jefferson Ave.
 Peoria, Illinois 61602
 Ph(309)676-8464
 FAX(309)676-5445
 IL Design Firm Reg. No. 64-00156

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A.P. 309	16R-2	WHITESIDE	547	193	7 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract # 64969



SOIL BORING LOG

Page 1 of 2

ROUTE FA 309 DESCRIPTION P92-140-00 Culvert on US 30, 150' E. of Bishop Road
SECTION 16RS LOCATION Mt. Pleasant Twp., SW, SEC. 16, TWP. 21N, R9G. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U L T I M A T E	M O D E	Surface Water Elev.		D E P T H	B L O W S	U L T I M A T E	M O D E
					(ft)	(ft)				
1158+15					633.4	633.1				
B-1c Station 1158+27					Groundwater Elev.: First Encounter 621.0 ft					
Offset 15.00R RE CL					Upon Completion Wash ft					
Ground Surface Elev. 641.5 ft					After Hrs.					
SAND & GRAVEL										
MEDIUM black SILTY CLAY										
STIFF tan/brown SILTY CLAY										
VERY LOOSE tan SAND & GRAVEL										
VERY DENSE concrete (probably old concrete roadway)										
MEDIUM gray SILT										
MEDIUM brown SILT w/12% ORGANICS										
MEDIUM brown SILT with 14% ORGANICS										
MEDIUM gray SANDY LOAM										

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



SOIL BORING LOG

Page 2 of 2

ROUTE FA 309 DESCRIPTION P92-140-00 Culvert on US 30, 150' E. of Bishop Road
SECTION 16RS LOCATION Mt. Pleasant Twp., SW, SEC. 16, TWP. 21N, R9G. 5E
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U L T I M A T E	M O D E	Surface Water Elev.		D E P T H	B L O W S	U L T I M A T E	M O D E
					(ft)	(ft)				
1158+15					633.4	633.1				
B-1c Station 1158+27					Groundwater Elev.: First Encounter 621.0 ft					
Offset 15.00R RE CL					Upon Completion Wash ft					
Ground Surface Elev. 641.5 ft					After Hrs.					
MEDIUM brown SILT										
VERY DENSE tan/gray weathered LIMESTONE										
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)

DESIGNED	LLV
CHECKED	BL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

STS CONSULTANTS
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Peoria, Illinois 61602
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FAX(309)676-5445
IL Design Firm Reg. No. 64-00156

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	194	7
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

Contract # 64969

Page 1 of 2

SOIL BORING LOG

ROUTE FA 309 DESCRIPTION P92-140-00 Culvert on US 30, 150' E. of Bishop Road in Morrison LOGGED BY C. Jenkins

SECTION 16RS LOCATION Mt. Pleasant Twp. - SW SEC. 16, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	Groundwater Elev.	D	B	U	M
	1158+15					633.4 ft									
						633.1 ft									
BORING NO.	B-2c														
Station	1158+00					628.7 ft									
Offset	13.00R LL CL														
Ground Surface Elev.	641.7 ft	(ft)	(ft)	(%)											
Road Rock															
MEDIUM brown SILTY LOAM				0.5	20	LOOSE gray coarse SAND	621.20								
MEDIUM brown SILTY LOAM	638.20			2		MEDIUM gray SAND & GRAVEL									
				3	0.7										
	657.70			2	P		617.70								
MEDIUM black SILTY LOAM				1		Begin Wash									
				2	0.8	MEDIUM gray SAND & GRAVEL									
	666.20			3	P		615.20								
MEDIUM bluegray SILTY LOAM				1		Wash									
				1	0.7	MEDIUM tan SAND with some GRAVEL									
	632.70			3	P		612.70								
SOFT gray/green SILT				2		Wash									
				2	0.3	MEDIUM tan fine grained SAND									
	630.20			3	B		610.20								
MEDIUM gray/brown SILT with 13% ORGANICS				2		Wash									
				2	0.7	MEDIUM tan fine grained SAND									
	627.70			3	B		607.70								
MEDIUM gray/brown SILT				0		Wash									
				2	0.9	Same as above									
	625.20			4	B		605.20								
STIFF gray SANDY SILT with ORGANICS				1		Wash									
				3	1.1	VERY SOFT gray/tan SANDY SILT								0.1	26
	622.70			5	B										
							602.20								

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. 8-98)

Page 2 of 2

SOIL BORING LOG

ROUTE FA 309 DESCRIPTION P92-140-00 Culvert on US 30, 150' E. of Bishop Road in Morrison LOGGED BY C. Jenkins

SECTION 16RS LOCATION Mt. Pleasant Twp. - SW SEC. 16, TWP. 21N, RNG. 5E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	Groundwater Elev.	D	B	U	M
	1158+15					633.4 ft									
						633.1 ft									
BORING NO.	B-2c														
Station	1158+00					628.7 ft									
Offset	13.00R LL CL														
Ground Surface Elev.	641.7 ft	(ft)	(ft)	(%)											
Wash															
MEDIUM tan/yellow weathered LIMESTONE	600.20														
Wash															
Same as above															
End of Boring	587.70														

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)

DESIGNED	LLV
CHECKED	BL
DRAWN	MGM
CHECKED	LLV

BORING LOGS
US RTE. 30 OVER UNNAMED CREEK
F.A.P. ROUTE 309 SECT. 16R-2
WHITESIDE COUNTY
STATION 1158+14.82
STRUCTURE NO. 098-2025

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg. No. 64-00156

5/07-08-2025-08-11

Benchmark: Chiseled square on top of Northeast wingwall, Sta. 1158+20.0592, 22.1043' Lt., El. = 640.488

Existing Structure: The existing Structure No. 098-2021, constructed in 1995, is a concrete 12'x8' triple box culvert. Out to out headwalls is 55'-6" along \bar{C} culvert. Section and route of existing structure are 16RS-3, F.A.P. 309 (US 30). Traffic to be maintained utilizing Stage Construction.

Proposed Structure: Existing structure to be extended at each end for an overall out to out headwall of 87'-4".

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

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 for the work.

Precast alternate is not allowed.

Exposed edges shall be beveled $\frac{3}{4}$ ", unless otherwise noted.

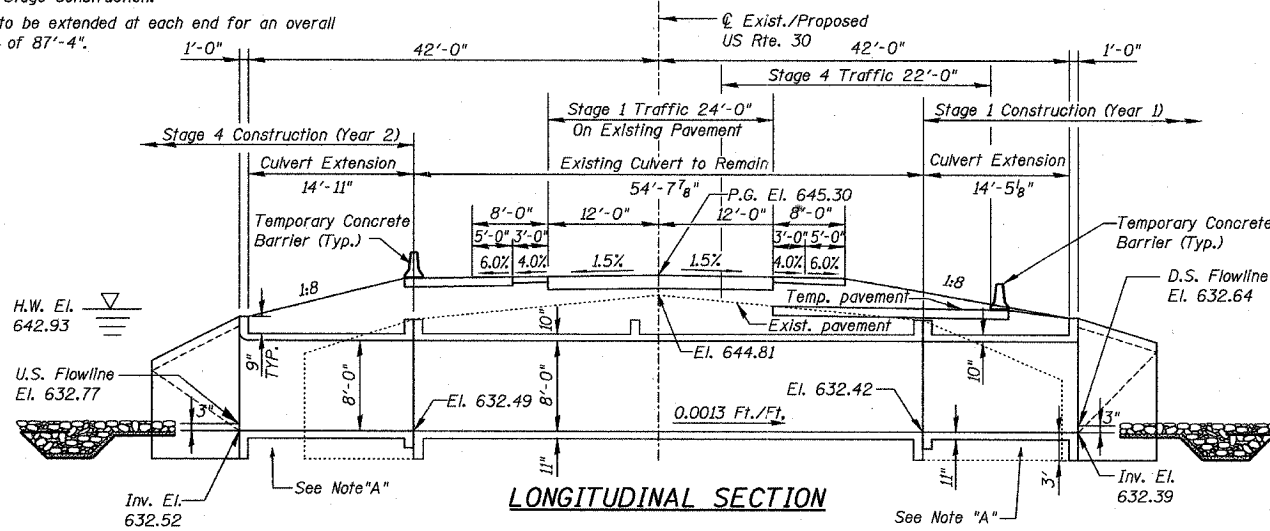
For backfilling and embankment see Standard Specifications.

At least 7' of the barrel shall be poured monolithically with wingwall.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 7500 lbs. Hooked bolts shall extend a minimum of 9 inches into new concrete.

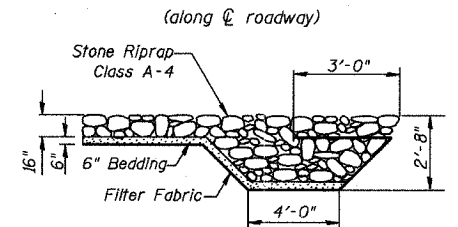
All Construction Joints shall be bonded.

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



(Horizontal Dimensions at Rt. Angles to \bar{C} Roadway)
Note "A" - Remove unsuitable soil to a depth of +/- 2'-9" below culvert and replace with Breaker Run Crushed Stone See detail sheet 5 of 6

PROFILE GRADE US RTE 30
(along \bar{C} roadway)



STONE RIPRAP ANCHOR DETAIL
SECTION B-B

LOADING HS20-44

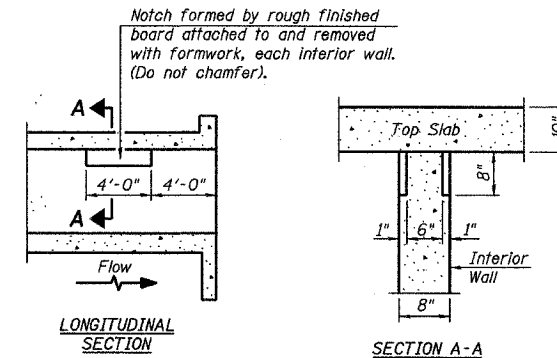
Allow 50 #/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

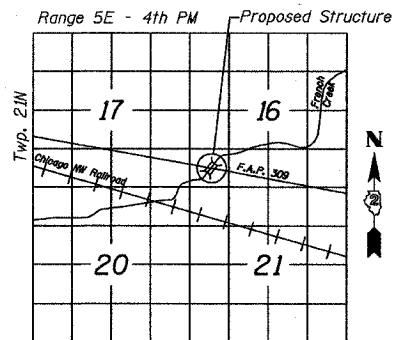
2002 AASHTO "Standard Specifications for Highway Bridges"

DESIGN STRESSES

FIELD UNITS
New Construction
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
Existing Construction
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)



PHOEBE NESTING SITE DETAILS
(Downstream End Only)



LOCATION SKETCH

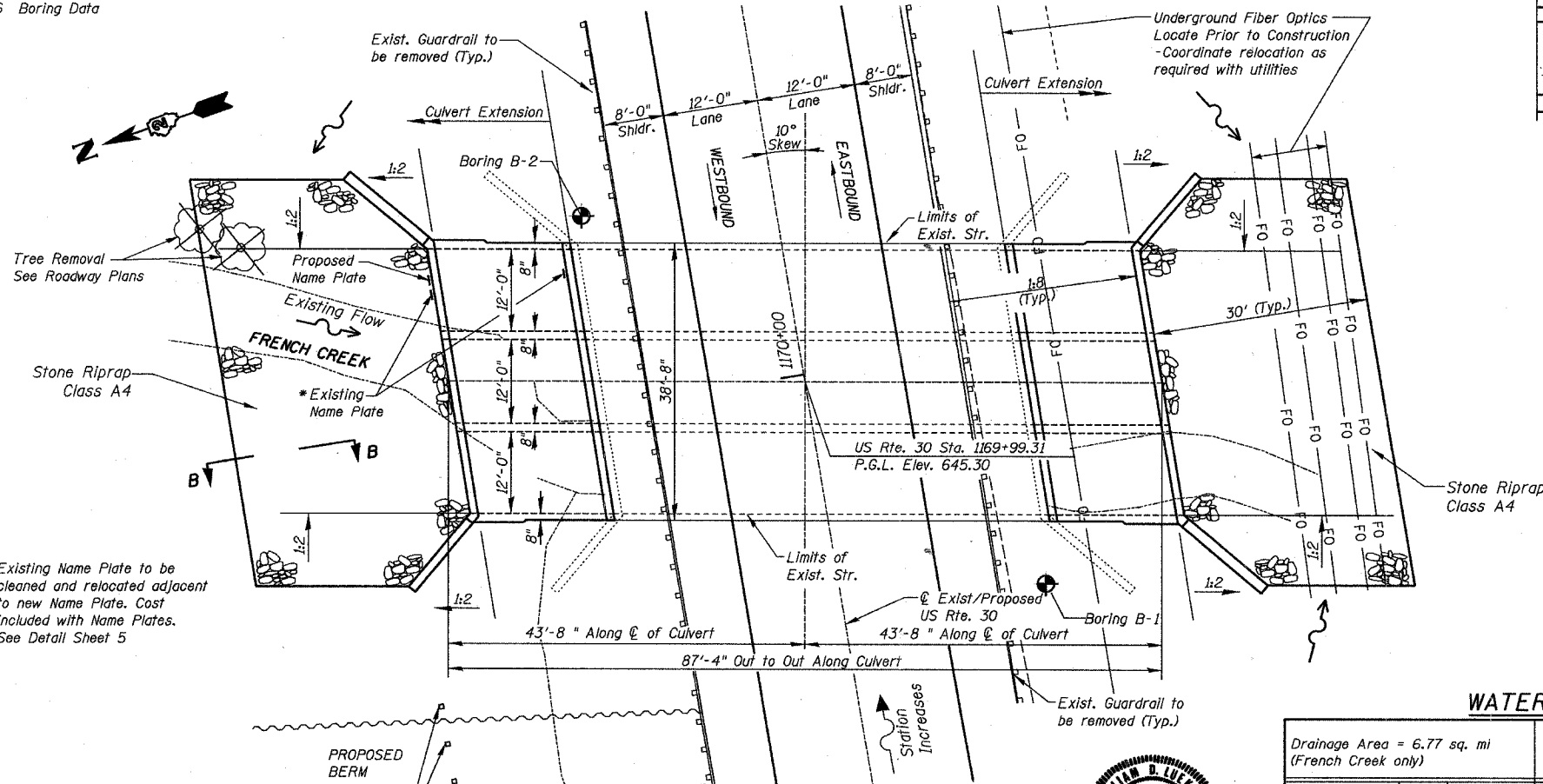
WATERWAY INFORMATION

Drainage Area = 6.77 sq. mi (French Creek only)		Exist. Low Grade Elev. 644.81 - @ Sta. 1169+99.31		Prop. Low Grade Elev. 645.30 - @ Sta. 1169+99.31		
Flood	Freq. Yr.	Prop. Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Overtop (Exist.)	10	961	288.0 288.0	642.61 0.0	0.0 0.0	642.58 642.57
Design	50	887	288.0 288.0	642.93 0.37	0.37 0.37	643.30 643.30
Base	100	927	288.0 288.0	643.17 0.35	0.42 0.42	643.52 643.59
Max. Calc.	500	1067	288.0 288.0	643.76 0.28	0.74 0.74	644.04 644.50

10-Yr. velocity through existing French Creek Culvert = 3.69 fps
10-Yr. velocity through proposed French Creek Culvert = 4.06 fps

INDEX OF SHEETS

- 1 General Plan
- 2 North Culvert Extension Details
- 3 South Culvert Extension Details
- 4 Wingwall and Section
- 5 Boring Data and Details
- 6 Boring Data



* Existing Name Plate to be cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates. See Detail Sheet 5

DESIGNED	DJC
CHECKED	WDL
DRAWN	JSD
CHECKED	WDL

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

William D. Lueking
Illinois Licensed Structural Engineer No. 4341
Lic. Expires 11/30/06



TOTAL BILL OF MATERIAL

Item	Unit	Total
Breaker Run Crushed Stone	Ton	348
Name Plates	Each	1
Remove and Dispose of Unsuitable Material	Cu. Yd.	170
Concrete Box Culverts	Cu. Yd.	142.8
Reinforcement Bars	Pound	29,670
Stone Riprap, Class A4	Sq. Yd.	368.5
Filter Fabric	Sq. Yd.	368.5
Expansion Bolts $\frac{3}{4}$ "	Each	124

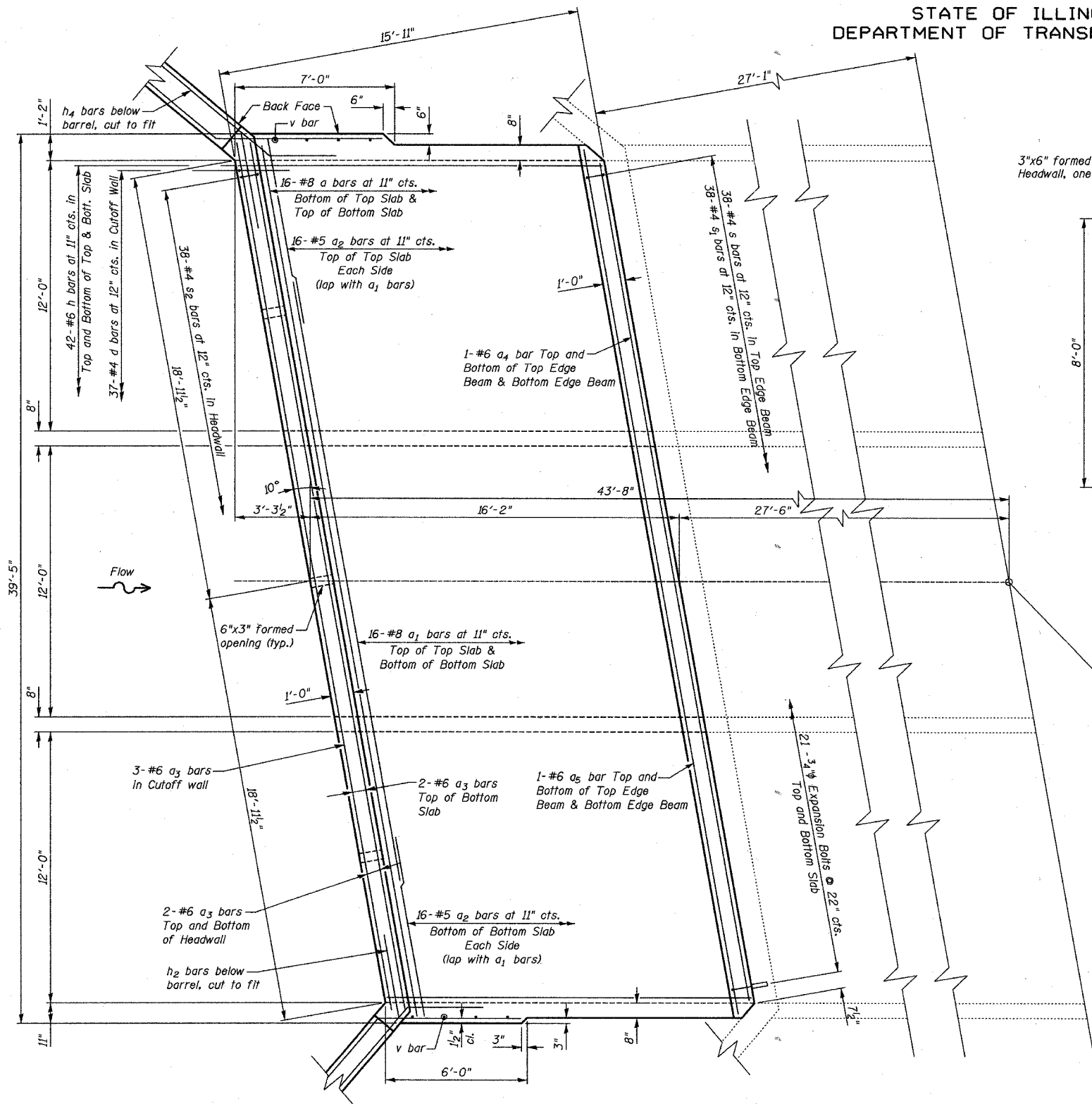
GENERAL PLAN
U.S. RTE. 30 OVER FRENCH CREEK
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1169+99.31
STRUCTURE NUMBER 098-2021



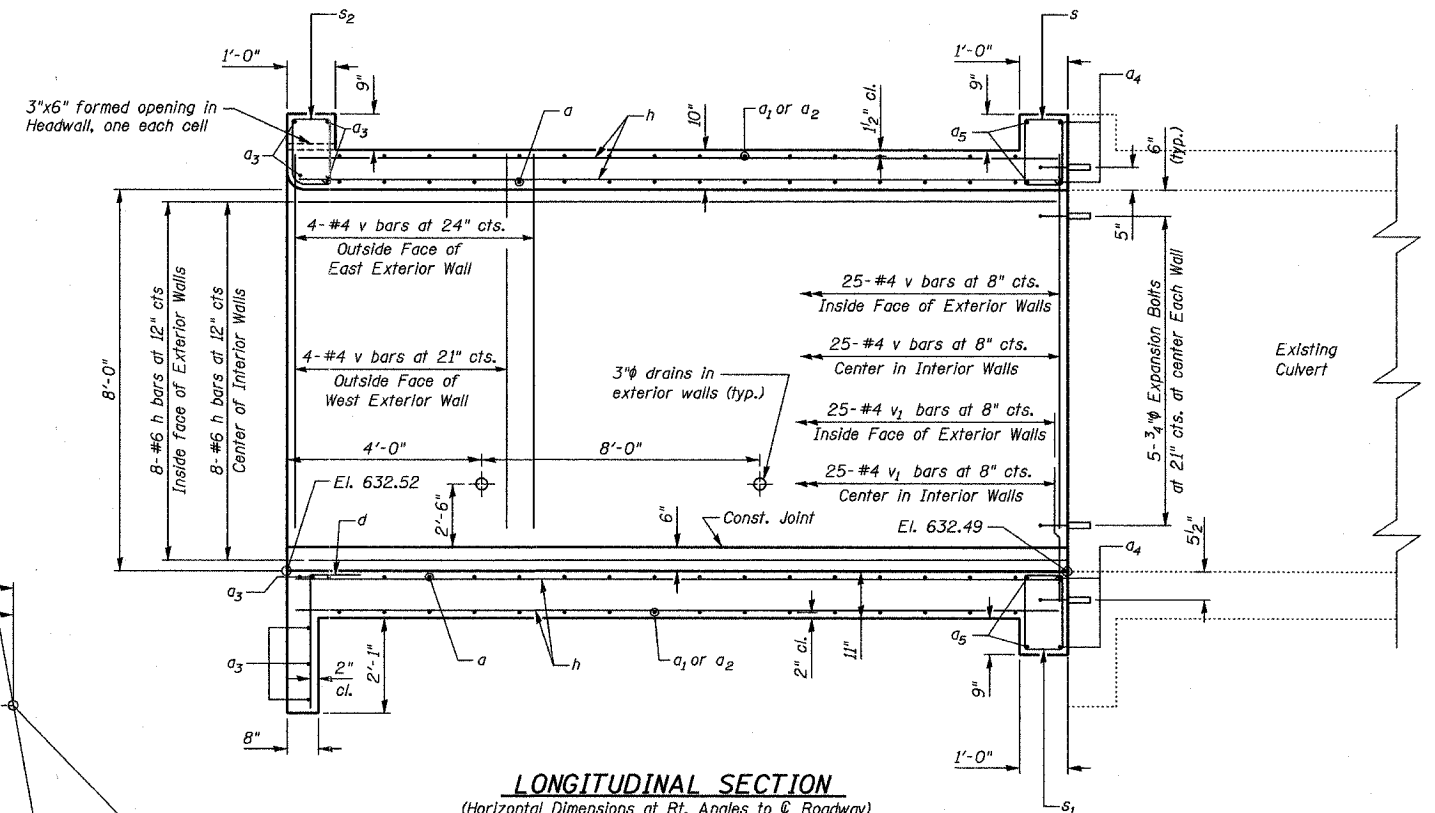
111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 2 OF
F.A.P.309	16R-2	WHITESIDE	5/47	196	6 SHEETS
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-	Contract No. 64969		

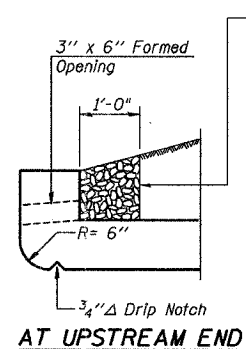


PLAN

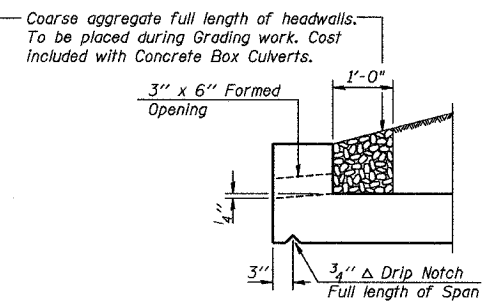


LONGITUDINAL SECTION
(Horizontal Dimensions at Rt. Angles to \odot Roadway)

\odot US Rte. 30
Station 1169+99.31
El. 645.30



AT UPSTREAM END



DRAIN DETAIL

NORTH CULVERT EXTENSION DETAILS
U.S. RTE. 30 OVER FRENCH CREEK
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1169+99.31
STRUCTURE NUMBER 098-2021

DESIGNED	DJC
CHECKED	WDL
DRAWN	JSD
CHECKED	WDL

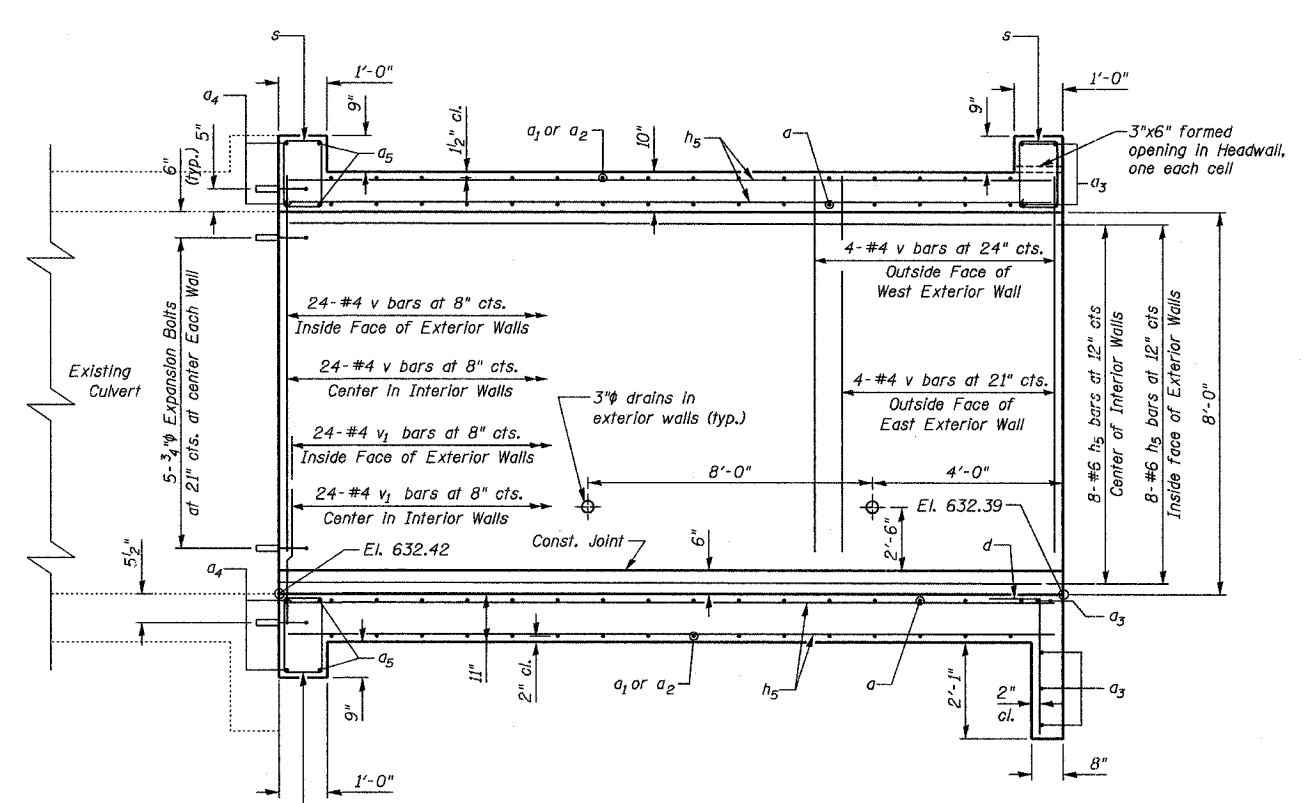
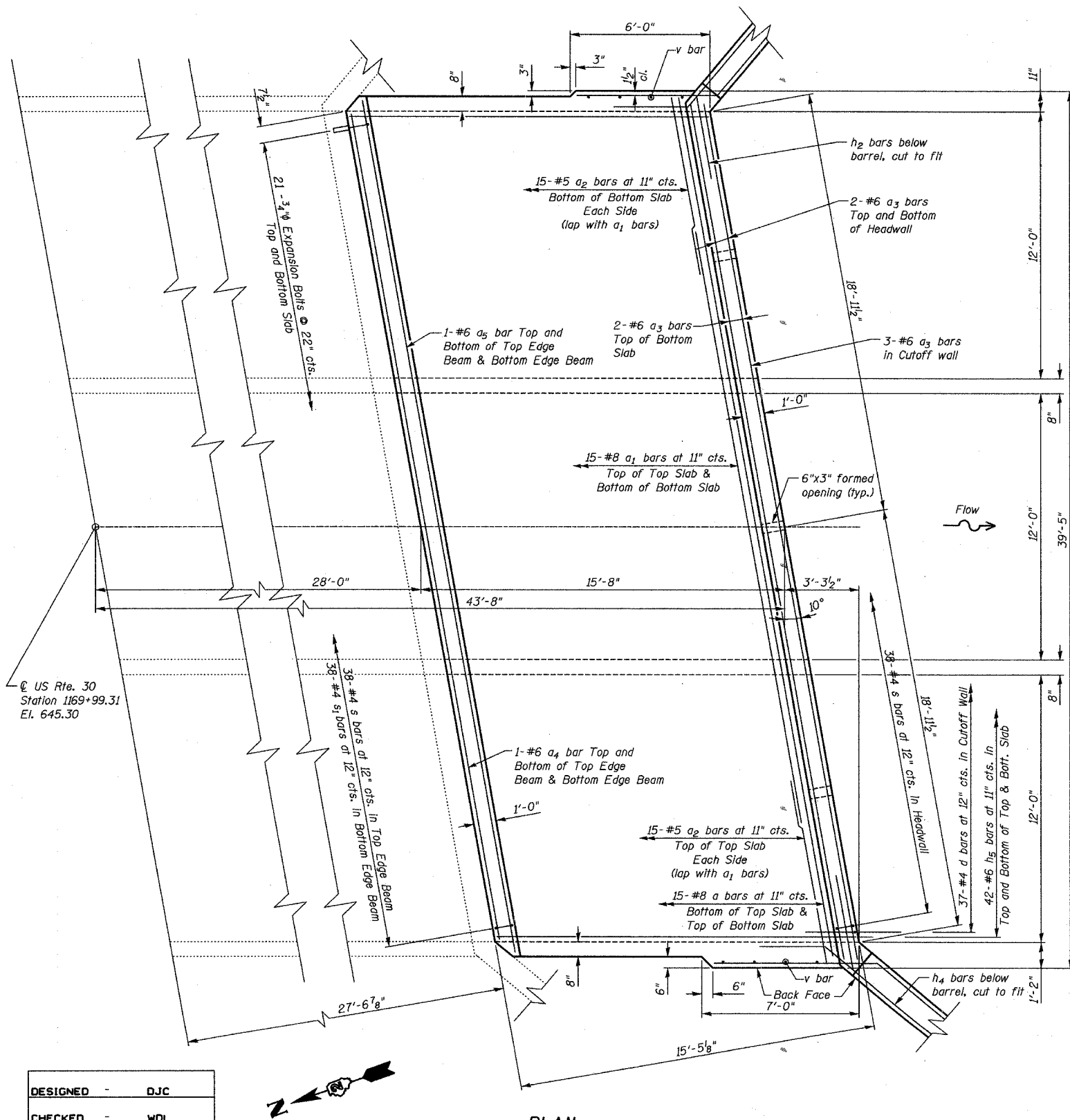
Note:
Min. lap #5 = 1'-8"
Work this sheet with sheet 4 of 6



111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 3 OF 6 SHEETS
F.A.P. 309	16R-2	WHITESIDE	546	197	
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-	Contract No. 64969		



Notes:
Min. lap #5 = 1'-8"
Work this sheet with sheet 4 of 6

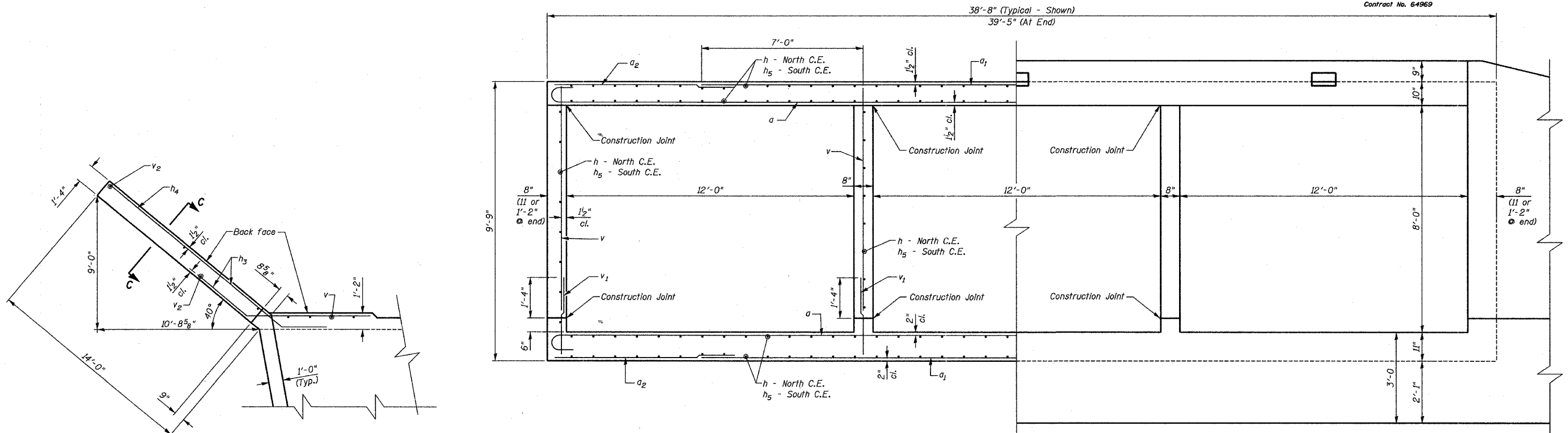
SOUTH CULVERT EXTENSION DETAILS
U.S. RTE. 30 OVER FRENCH CREEK
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1169+99.31
STRUCTURE NUMBER 098-2021

DESIGNED	-	DJC
CHECKED	-	WDL
DRAWN	-	JSD
CHECKED	-	WDL

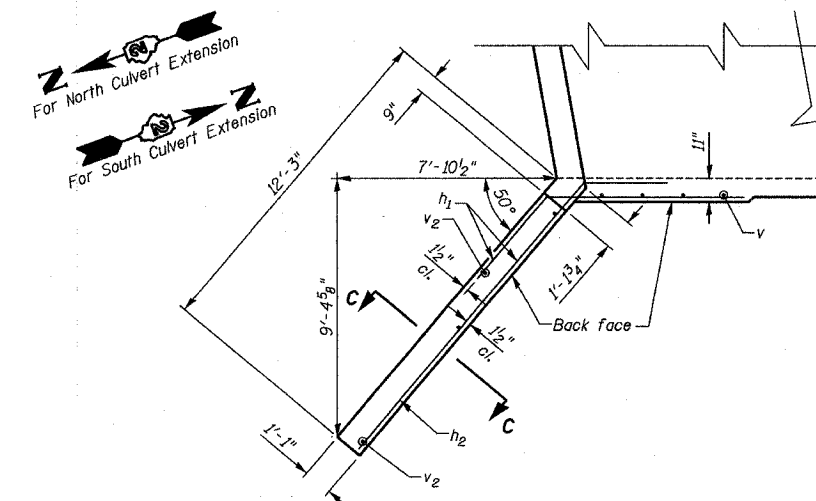
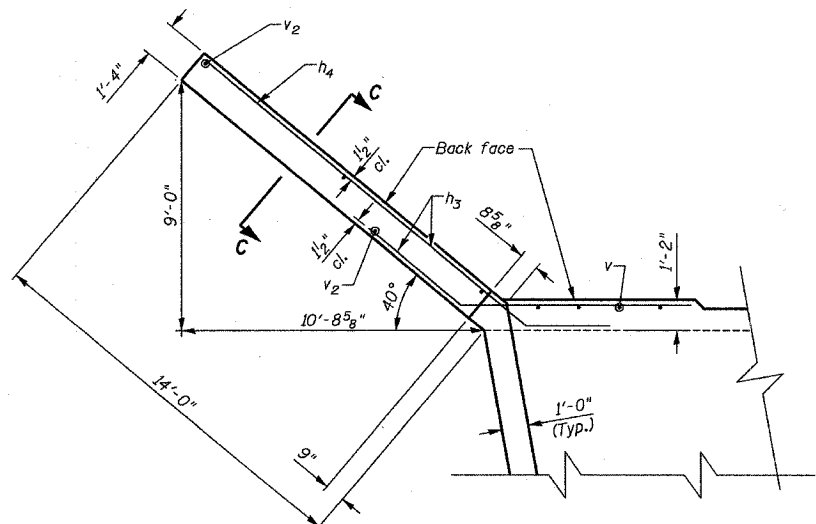
ST CONSULTANTS
111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.	SHEET NO. 4 OF 6 SHEETS
F.A.P. 309	16R-2	WHITESIDE	6/47	148	
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT	Contract No. 64969		



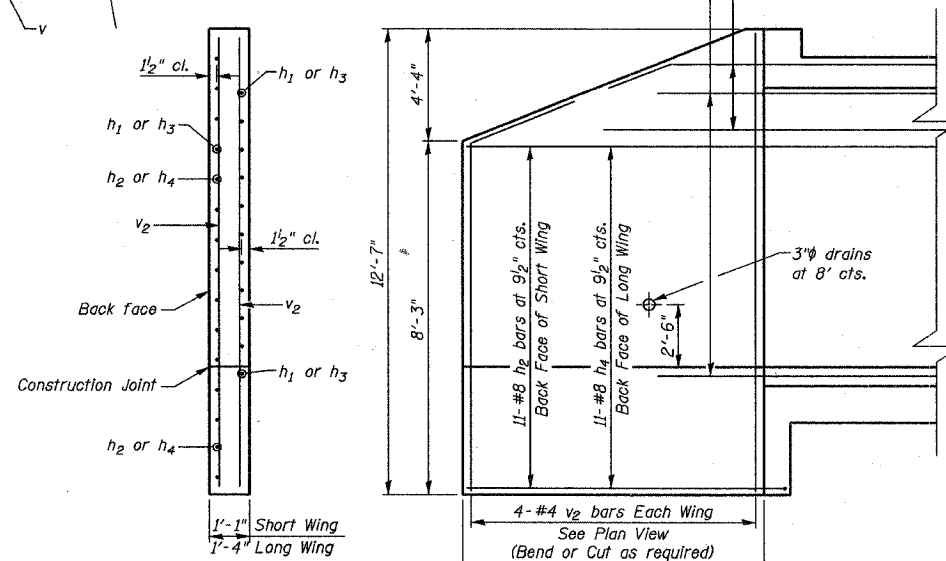
HALF SECTION / HALF ELEVATION
See plan on sheets 2 and 3 for wall thickening information.



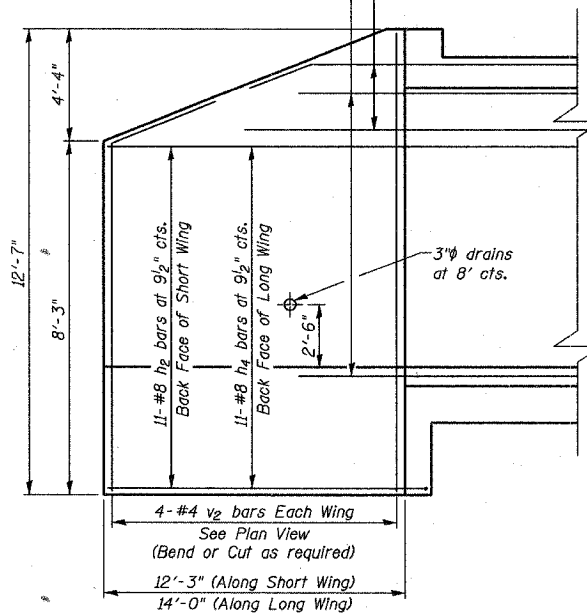
WINGWALL PLAN

4- #8 h₁ bars at 9 1/2" cts. Back Face Short Wing
4- #8 h₃ bars at 9 1/2" cts. Back Face Long Wing

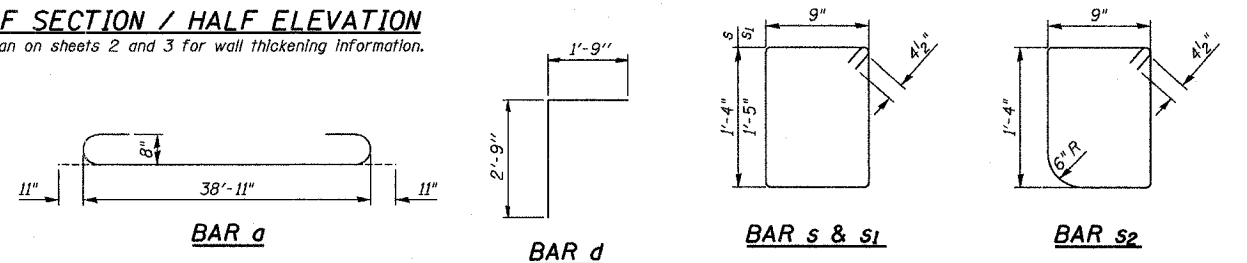
11- #8 h₁ bars at 9 1/2" cts. Front Face Short Wing
11- #8 h₃ bars at 9 1/2" cts. Front Face Long Wing



SECTION C-C




WINGWALL ELEVATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	62	#8	40'-9"	U
a1	62	#8	27'-1"	U
a2	124	#5	7'-7"	U
a3	18	#6	39'-6"	U
a4	8	#6	37'-8"	U
a5	8	#6	38'-11"	U
d	74	#4	4'-6"	T
h	200	#6	15'-10"	U
h1	30	#8	9'-1"	U
h2	22	#8	15'-7"	U
h3	30	#8	10'-4"	U
h4	22	#8	17'-10"	U
h5	200	#6	15'-4"	U
s	114	#4	4'-11"	U
s1	76	#4	5'-1"	U
s2	38	#4	4'-9"	U
v	212	#4	8'-1"	U
v1	196	#4	2'-7"	U
v2	16	#4	12'-4"	U
Reinforcement Bars		Pound	29,670	
Concrete		Cu. Yd.	142.8	
Box Culverts				
Expansion Bolts 3/4"		Each	124	

WINGWALL AND SECTION
U.S. RTE. 30 OVER FRENCH CREEK
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1169+99.31
STRUCTURE NUMBER 098-2021



111 W. Washington St., Suite 1750
Chicago, IL 60602
Ph.(312)628-3886
Fax(312)628-3892
IL Design Firm Registration
No. 184-001518

DESIGNED	-	DJC
CHECKED	-	WDL
DRAWN	-	JSD
CHECKED	-	WDL

Note: Work this sheet with sheets 2 & 3 of 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 309	16R-2	WHITESIDE	547	199
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT-	
Contract No. 64969				



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 8/16/91

ROUTE FA 309 DESCRIPTION P92-218-90 US 30 over French Creek LOGGED BY C. Jenkins
SECTION 16 BR-1 LOCATION Mt. Pleasant Twp. - SW 1/4, SEC. 16, TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD HAMMER TYPE

STRUCT. NO.	DEPT	BLOW	UCS	M	Surface Water Elev.	DEPT	BLOW	UCS	M	
Station	H	S	Qu	T	ft	H	S	Qu	T	
BORING NO.					Groundwater Elev.:					
Station					First Encounter					
Offset					Upon Completion					
Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
1169+98					632.5					
B-1					627.0					
1169+67					632.1					
26.00R Rt CL										
641.5										
MEDIUM brown SILTY LOAM			0.8 P	26	620.00					
STIFF brown SILTY LOAM	5	4	1.2 S	10	617.50					
MEDIUM black/brown SILTY LOAM	2	5	0.7 S	28	615.00					
MEDIUM black SILTY LOAM	2	2	0.7 B	41	612.50					
SOFT black SANDY LOAM	1	1	0.3 B	32	610.00					
LOOSE gray SAND & GRAVEL	3	2			607.50					
MEDIUM tan fine to medium SAND with trace GRAVEL	3	10			605.00					
Begin Wash DENSE gray SAND & GRAVEL	16	15			602.50					

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. 8-89)



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

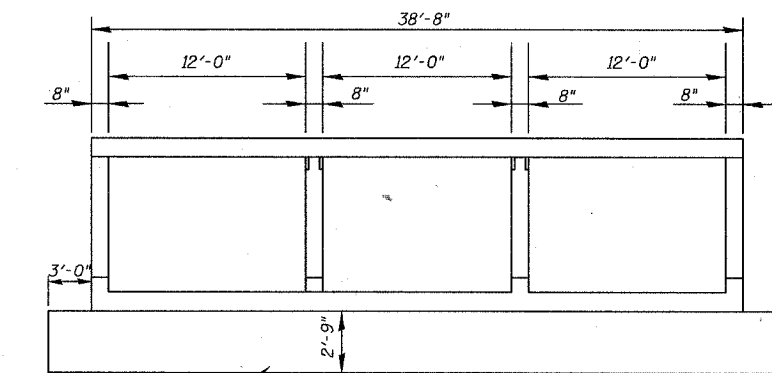
Page 2 of 2

Date 8/16/91

ROUTE FA 309 DESCRIPTION P92-218-90 US 30 over French Creek LOGGED BY C. Jenkins
SECTION 16 BR-1 LOCATION Mt. Pleasant Twp. - SW 1/4, SEC. 16, TWP. 21N, RNG. 5E
COUNTY Whiteside DRILLING METHOD HAMMER TYPE

STRUCT. NO.	DEPT	BLOW	UCS	M	Surface Water Elev.	DEPT	BLOW	UCS	M	
Station	H	S	Qu	T	ft	H	S	Qu	T	
BORING NO.					Groundwater Elev.:					
Station					First Encounter					
Offset					Upon Completion					
Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
1169+98					632.5					
B-1					627.0					
1169+67					632.1					
26.00R Rt CL										
641.5										
Same as above	6	10	3.5 B	11	599.50					
VERY DENSE gray/yellow weathered LIMESTONE	20	00/12			597.00					
HARD gray SILTY CLAY TILL with LIMESTONE fragments	20	25	5.8 S	11	595.00					
Same as above	27	17	6.1 S	11	592.50					
Same as above	20	24	6.1 S	11	590.00					
Same as above	17	17	5.1 S	10	587.50					
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. 8-89)



Remove and replace with Breaker Run Crushed Stone
SECTION THRU BARREL
Soil Removal and Replacement

STATION 1169+99.31
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. Rt 309 Sec 16 R-2
LOADING HS20
STR. NO. 098-2021

NAME PLATE
See Std. 515001

BORING DATA AND DETAILS
U.S. RTE. 30 OVER FRENCH CREEK
F.A.P. ROUTE 309 SECT. 16 R-2
WHITESIDE COUNTY
STATION 1169+99.31
STRUCTURE NUMBER 098-2021

DESIGNED	DJC
CHECKED	WDL
DRAWN	JSD
CHECKED	WDL



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