

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	1
ILLINOIS CONTRACT NO. 60P56				

FOR INDEX OF SHEETS, SEE SHEET 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

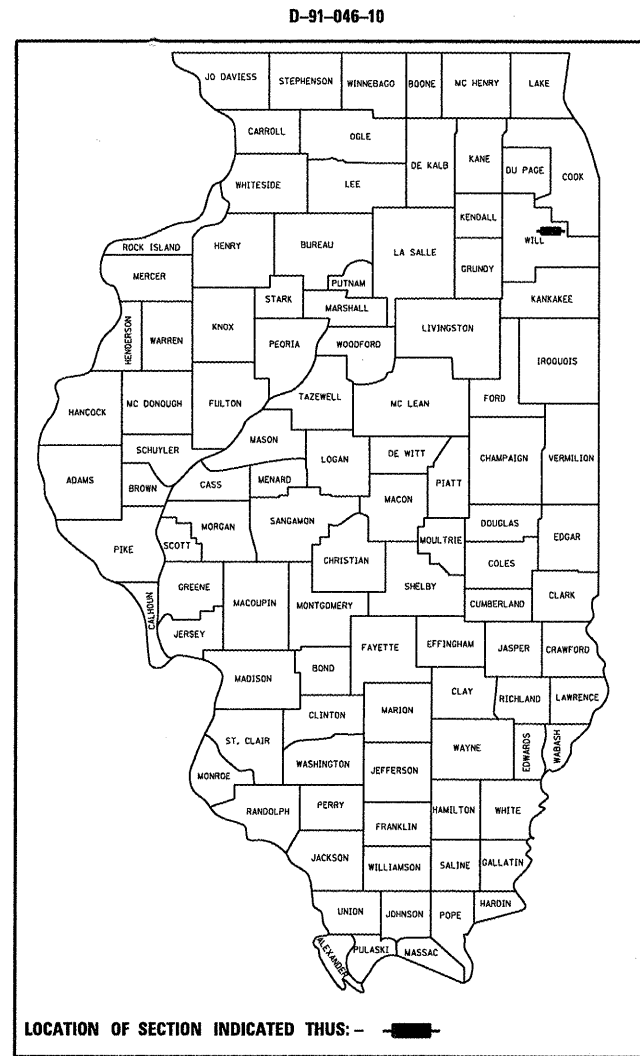
F.A.I. ROUTE 80 (INTERSTATE 80)
SECTION 2011-046-L
PROJECT: IM-080-4(194)137
AT U.S. ROUTE 30
LIGHTING
WILL COUNTY
C-91-579-11

TRAFFIC DATA

ADT (2008)
INTERSTATE 80 = 81,200
U.S. ROUTE 30 = 30,200

ADT (2030):
INTERSTATE 80 = 115,000
U.S. ROUTE 30 = 49,000

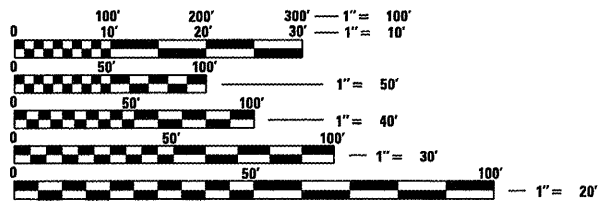
DESIGN SPEED (I-80) = 60 MPH
POSTED SPEED (I-80) = 55 MPH
DESIGN SPEED (US 30) = 45 MPH
POSTED SPEED (US 30) = 40 MPH



LOCATION OF SECTION INDICATED THIS: -

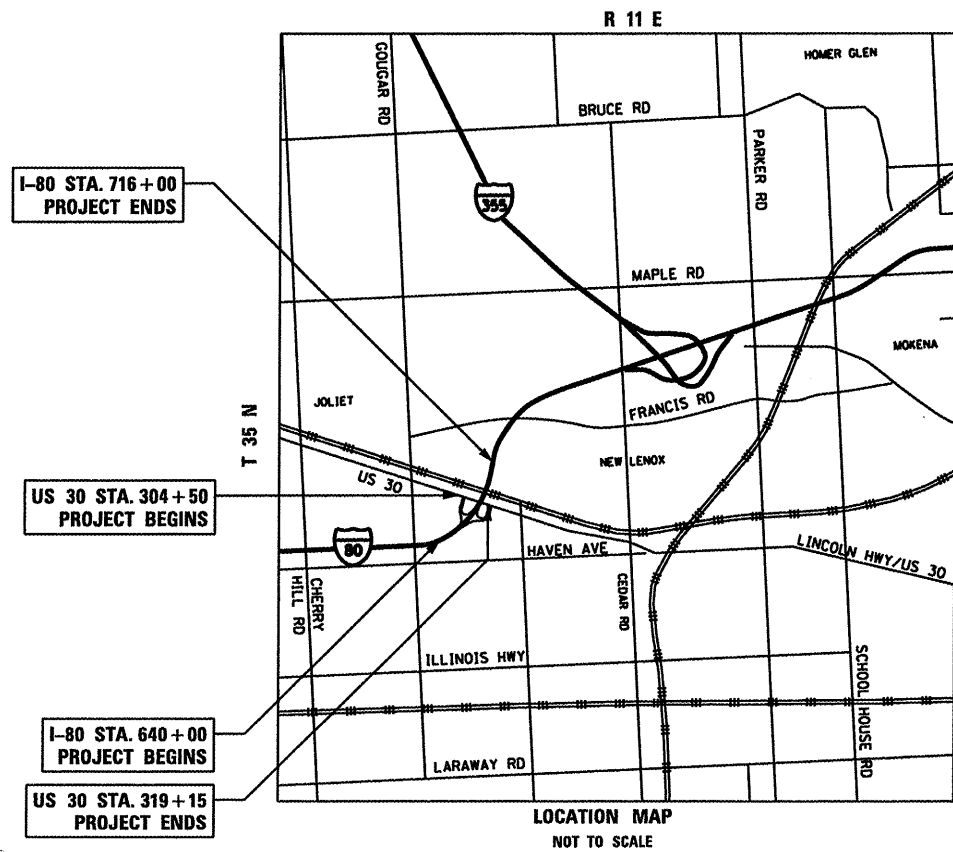
CONSULTANT PROJECT MANAGER - KIM HARVEY, (847) 705-4055, DISTRICT 1

PROJECT LOCATED IN THE VILLAGE OF NEW LENOX



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

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



GROSS LENGTH (I-80) = 5,035 FT. = 0.95 MILE
GROSS LENGTH (US 30) = 1,465 FT. = 0.28 MILE
NET LENGTH (I-80) = 5,035 FT. = 0.95 MILE
NET LENGTH (US 30) = 1,465 FT. = 0.28 MILE

JOSEPH M. VONDRA
062-058846
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 2/2/2012
SEAL EXPIRES: 11/30/2013

BRETT W. SAUTER
081-008844
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 2/2/2012
SEAL EXPIRES: 11/30/2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED FEBRUARY 6, 2011
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 23 2012
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 23 2012
William R. Frenzel
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Ciorba Group, Inc.
DESIGN FIRM
REGISTRATION NUMBER
184-001016
CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: SUNG BYUN
PROJECT MANAGER: KIM HARVEY
CONTRACT NO. 60P56

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS AND STATE STANDARDS
3	GENERAL NOTES
4 - 8	SUMMARY OF QUANTITIES
9	SCHEDULE OF QUANTITIES
10 - 15	ALIGNMENTS, TIES, AND BENCHMARKS
16 - 23	STAGING AND TRAFFIC CONTROL PLAN
24	LIGHTING LEGEND & OVERVIEW
25	LIGHTING REMOVAL PLAN
26	TEMPORARY LIGHTING PLAN
27- 32	LIGHTING AND I.T.S. PLAN
33	ONE LINE DIAGRAM
34- 39	GRADING DETAILS
40- 45	PAVEMENT MARKING PLAN
46- 51	LANDSCAPING PLAN
52	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT (BE-220)
53- 55	HIGH MAST TOWER 120-140 FT. (BE-505)
56	MISC. ELECTRICAL DETAILS SHEET A (BE-702)
57	COMMUNICATIONS VAULT, COMPOSITE CONCRETE (BE-705)
58	TEMPORARY LIGHT POLE DETAILS (BE-800)
59	TEMPORARY AERIAL CABLE INSTALLATION (BE-801)
60	TRUNK CABLE FIBER ASSIGNMENTS (BE-2100)
61	DISTRIBUTION CABLE FIBER ASSIGNMENTS (BE-2110)
62	SIX FIBER LATERAL CABLE FIBER ASSIGNMENTS (BE-2120)
63	TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS (BE-2130)
64- 67	LIGHTING CONTROLLER, DUPLEX TYPE
68- 70	LIGHT TOWER FOUNDATION, 54" DIAMETER
71	LIGHT TOWER, SERVICE PAD (TYPE A)
72- 73	LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE B)
74- 75	LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE C)
76	LIGHT TOWER, SERVICE PAD, SPECIAL DETAILS
77- 84	SOIL BORING LOGS
85	TRAFFIC CONTROL DETAILS FOR ENTRANCE AND EXIT RAMP CLOSURE (TC-08)
86	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
87- 88	TRAFFIC CONTROL DETAILS FOR MULTI-LANE FREEWAY PAVEMENT MARKING (TC-12)
89	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
90	ARTERIAL ROAD INFORMATION SIGN (TC-22)
91 - 101	CROSS SECTIONS, I-80
102	CROSS SECTIONS, RAMP AD
103	CROSS SECTIONS, RAMP CB
104	CROSS SECTIONS, RAMP BD
105	CROSS SECTIONS, RAMP DA
106	CROSS SECTIONS, US 30

LIST OF HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 630301-05 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631011-08 TRAFFIC BARRIER TERMINAL, TYPE 2
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701101-02 OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701400-05 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-06 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-06 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701411-08 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 814001-02 HANDHOLES
- 642001-02
- 643001
- 701446-03
- 780001-03

HOT-MIX ASPHALT MIXTURE REQUIREMENTS


OPERATION	MIXTURE TYPE	AIR VOIDS @ NDES
SHOULDER RECON.	HMA SHOULDER (HMA BINDER IL-19mm)	4% @ 50 GYR.
SHOULDER RESURF.	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL-9.5mm)	4% @ 70 GYR.

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SOYD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

Rev.

 <p>ENGINEERING CONSULTANT Clorba Group, Inc. CONSULTING ENGINEERS 1907 North Cumberland Avenue, Suite 402 Chicago, Illinois 60614 Tel: 773.776.4029 Fax: 773.776.4010 Email: clorba@clorba.com</p>	USER NAME = rrado	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING INDEX OF SHEETS AND STATE STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -			80	2011-046-L	WILL	106	2
	PLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -			CONTRACT NO. 60P56				
				SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AS WELL AS:

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS ADOPTED JANUARY 1, 2012.

ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION IN EFFECT ON THE DATE OF INVITATION FOR BIDS)

NATIONAL ELECTRIC CODE, 2008 EDITION.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED UNDER THE UTILITY OWNER'S DIRECTION AND AT NO ADDITIONAL COST TO IDOT.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE ENGINEER SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING FIELD CONDITIONS PRIOR TO BIDDING, ORDERING MATERIALS, OR BEGINNING CONSTRUCTION ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.
- TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT REGINA COOPER, AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153.

11. THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION RECORD DRAWINGS NOTING ALL CHANGES TO THE PLANS AND THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ENCOUNTERED. A MYLAR REPRODUCIBLE AS-BUILT DRAWING AND TWO (2) PAPER SETS MUST BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL UPON COMPLETION OF THE PROJECT. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF MOBILIZATION.

- LOCATION OF CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.

ROADWAY LIGHTING NOTES

- THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO ARTICLE 801.09 OF THE STANDARD SPECIFICATIONS REGARDING THE PROPOSED LOCATIONS OF THE LIGHTING SYSTEM. ADDITIONALLY, THE UNIT DUCT ROUTING SHOWN ON THE PLANS IS MAINLY INTENDED TO SHOW ELECTRICAL CIRCUITRY.
- THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
- REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
- THE ENGINEER SHALL APPROVE THE LOCATION OF ALL PUSH PITS.

ROADWAY LIGHTING NOTES (CONT.)

- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.
- UNDERGROUND SPLICES ARE NOT ALLOWED.

EROSION AND SEDIMENT CONTROL NOTES

- NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR FOR AREAS THAT REMAIN INACTIVE FOR FOURTEEN (14) CALENDAR DAYS.

5. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA, WETLAND AREAS OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES.

7. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING, OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATER OF THE U.S..

- THE CONTRACTOR SHALL PROVIDE A PLAN FOR ACCEPTANCE TO IDOT'S RESIDENT ENGINEER FOR STABILIZED ACCESS ACROSS DRAINAGE DITCHES. THE PLAN, MATERIALS, INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED ACCESS ACROSS DITCHES WILL NOT BE MEASURED AND PAID FOR SEPARATELY. LACK OF AN ACCEPTED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION.

- THE RESIDENT ENGINEER IS TO MAKE A DETERMINATION OF WHICH EXISTING EROSION AND SEDIMENT CONTROL BMPs ARE SUBSTANTIALLY FUNCTIONAL PRIOR TO CLOSING OUT THE CONTRACT WORK. CONTRACTOR IS TO PROVIDE MAINTENANCE FOR TEMPORARY DITCH CHECKS, TEMPORARY SEED, MULCH, AND EROSION CONTROL BLANKET TO RESTORE BMPs TO A FUNCTIONAL CONDITION, AS DIRECTED BY THE RESIDENT ENGINEER.

10. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE AND FILTERED (E.G. SEDIMENT BASIN WITH BAFFLE SYSTEM OR OTHER APPROPRIATE MEASURE)

- THE FOLLOWING PAY ITEMS HAVE BEEN PROVIDED FOR EROSION AND SEDIMENT CONTROL MANAGEMENT. THE ACTUAL NEED FOR THESE PAY ITEMS WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE RESIDENT ENGINEER. IF THESE PAY ITEMS ARE NOT USED OR NOT USED IN THEIR ENTIRETY, THE REMAINING QUANTITY SHALL BE DEDUCTED FROM THE TOTAL AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
 - TEMPORARY DITCH CHECKS
 - PERIMETER EROSION BARRIER
 - TEMPORARY EROSION CONTROL SEEDING
 - MULCH, METHOD 4

COMMITMENTS


- NONE

EARTHWORK NOTES

- EMBANKMENT WIDENINGS SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF LIGHT TOWER FOUNDATIONS AND/OR SERVICE PADS.

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Rev.

 Clorba Group Inc. CONSULTING ENGINEERS 1001 North Calumet Avenue, Suite 402 Chicago, Illinois 60646 Tel: 773.778.4000 Fax: 773.778.4014 Email: clorba@clorba.com	USER NAME = jvandra	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING GENERAL NOTES	F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 3
	PLOT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -			SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 60P56	
	PLOT DATE = 2/24/2012	CHECKED - JMV	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE - 02-14-2012	REVISED -							

CONSTRUCTION
CODE
URBAN
FEDERAL 90%
STATE 10%

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SAFETY 0021
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	82	82
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	32	32
20200100	EARTH EXCAVATION	CU YD	1,081	1,081
* 20200200	ROCK EXCAVATION	CU YD	4,000	4,000
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	781	781
20400800	FURNISHED EXCAVATION	CU YD	201	201
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	48,100	48,100
25000210	SEEDING, CLASS 2A	ACRE	1.2	1.2
25000310	SEEDING, CLASS 4	ACRE	8.8	8.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	110	110
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110	110
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	110	110
25100115	MULCH, METHOD 2	ACRE	4.3	4.3
25100135	MULCH, METHOD 4	ACRE	10.0	10.0
25100630	EROSION CONTROL BLANKET	SQ YD	27,700	27,700
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,000	1,000
28000305	TEMPORARY DITCH CHECKS	FOOT	990	990
28000400	PERIMETER EROSION BARRIER	FOOT	2,200	2,200
28100101	STONE RIPRAP, CLASS A1	SQ YD	100	100
28200200	FILTER FABRIC	SQ YD	100	100
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	239	239
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	140	140
54210024	PIPE CULVERTS, CLASS D, TYPE 1, 24" (TEMPORARY)	FOOT	60	60
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	210	210
* 50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	61	61

* Specialty Items

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ENGINEERING CONSULTANT

 CONSULTING ENGINEERS
 2302 North Cumberland Avenue, Suite 402
 Chicago, IL 60614
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USER NAME = wjancaster	DESIGNED - RJR	REVISED -
PLOT SCALE = 2.0000' / 1"	DRAWN - RJR	REVISED -
PLOT DATE = 2/14/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	4
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

CONSTRUCTION
CODE
URBAN
FEDERAL 90%
STATE 10%

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SAFETY 0021
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8
60107600	PIPE UNDERDRAINS 4"	FOOT	440	440
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	162.5	162.5
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	241	241
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	600	600
63302400	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5	EACH	1	1
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	52	52
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	17,500	17,500
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	4,000	4,000
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,430	2,430
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9,200	9,200
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	1,700	1,700
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2,200	2,200
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	75	75
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	7,200	7,200
* 78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	1,200	1,200
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	3,500	3,500
* 78100300	REPLACEMENT REFLECTOR	EACH	250	250

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ENGINEERING CONSULTANT

Ciorba Group, Inc.
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USER NAME = wjancoster	DESIGNED - RJR	REVISED -
PLOT SCALE = 2.0000' / 1" IN.	DRAWN - RJR	REVISED -
PLOT DATE = 2/14/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SUMMARY OF QUANTITIES**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	5
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

Rev

CONSTRUCTION CODE
URBAN - FEDERAL 90% STATE 10%

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SAFETY 0021
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	5	5
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	100	100
78300100	PAVEMENT MARKING REMOVAL	SQ FT	10,000	10,000
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	30	30
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	500	500
81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	2,550	2,550
81400200	HEAVY-DUTY HANDHOLE	EACH	5	5
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	19,400	19,400
81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	150	150
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	3,150	3,150
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	1	1
82105700	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	76	76
83057340	LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	14	14
83057345	LIGHT POLE, WOOD, 60 FOOT, CLASS 3, WITH 15FT MAST ARM	EACH	1	1
83504700	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	21	21
83506900	LIGHT TOWER, 140 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	1	1
83700350	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	399	399
84200804	REMOVAL OF POLE FOUNDATION	EACH	11	11
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1

* Specialty Items

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ENGINEERING CONSULTANT	USER NAME = wjencoaster	DESIGNED - RJR	REVISED -
Clorba Group, Inc.		DRAWN - RJR	REVISED -
CONSULTING ENGINEERS	PLOT SCALE = 2.0000" = 1" IN.	CHECKED - JMV	REVISED -
	PLOT DATE = 2/14/2012	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SUMMARY OF QUANTITIES


SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	6
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				URBAN - 90% FEDERAL, 10% STATE
				SAFETY 0021
87200400	SPAN WIRE	FOOT	1,450	1,450
X0321750	REMOVE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	224	224
X0322433	LIGHT TOWER, SERVICE PAD	EACH	14	14
X0322434	LIGHT TOWER, SERVICE PAD, SPECIAL	EACH	8	8
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	5	5
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	2	2
X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	2,948	2,948
X0324456	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU FT	102	102
X0325040	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	2,050	2,050
X0325444	TEMPORARY CONCRETE BARRIER (INSTALL ONLY)	FOOT	212.5	212.5
X0326130	TEMPORARY WOOD POLE, 100 FT., CLASS 4, 20 FT. MAST ARM	EACH	3	3
X0326465	MODIFICATION OF EXISTING VIDEO DISTRIBUTION SYSTEM	L SUM	1	1
X0326945	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	5	5
X0326946	CLOSED CIRCUIT TELEVISION CAMERA INSTALLATION	EACH	5	5
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	183	183
X7030035	WET REFLECTIVE TEMPORARY TAPE TYPE III, 5 INCH	FOOT	2,500	2,500
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	250	250
X8210015	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, 400 WATT	EACH	3	3
X8410103	REMOVE TEMPORARY LIGHTING SYSTEM	L SUM	1	1
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	11	11
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	2,950	2,950

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	USER NAME = wjencaster	DESIGNED - RJR	REVISED -
	PLOT SCALE = 2.0000' / IN.	DRAWN - RJR	REVISED -
	PLOT DATE = 2/14/2012	CHECKED - JMV	REVISED -
		DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SUMMARY OF QUANTITIES**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
--------	-----------	----	--------	------	---------

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	7
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN - 90% FEDERAL, 10% STATE	SAFETY 0021
* Z0007118	UNTREATED TIMBER LAGGING	SQ FT	1,357	1,357	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	1,077	1,077	
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	5	5	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103	
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13	13	
Z0033052	COMMUNICATIONS VAULT	EACH	3	3	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0064800	SELECTIVE CLEARING	UNIT	85	85	
	DITCH CROSS-OVER	EACH	2	2	
81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	5,800	5,800	
82500420	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL)	EACH	1	1	
87101024	FIBER OPTIC CABLE, ON MESSENGER SINGLE MODE, NO. 62.5/125, 24 FIBERS	FOOT	1,450	1,450	

40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N 70	TON	90	90	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL 2"	SQ YD	780	780	
54213459	END SECTIONS 24"	EACH	4	4	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	5250	5250	
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	370	370	
78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	130	130	
78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"	FOOT	1400	1400	
X0324237	CLOSED CIRCUIT TELEVISION DOME CAMERA HIGH MAST TOWER INSTALLATION	EACH	5	5	
X7030045	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	FOOT	4000	4000	
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1530	1530	
Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	505	505	

* Specialty Items Rev.



ENGINEERING CONSULTANT	USER NAME = wlencoaster	DESIGNED - RJR	REVISED -
CONSULTING ENGINEERS		DRAWN - RJR	REVISED -
1507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60654 Tel: 773.775.8200 Fax: 773.775.4814 Email: chris@corbainc.com	PLOT SCALE = 2,000' / 1" IN.	CHECKED - JMV	REVISED -
	PLOT DATE = 2/14/2012	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SUMMARY OF QUANTITIES

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	8
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				

TREE REMOVAL (6 TO 15 UNITS DIAMETER) (20100110)			
LOCATION			UNIT
LOCATION	STATION	L/R	
I-80	639+90	RT	10
I-80	660+80	RT	8
I-80	657+05	LT	6
I-80	657+05	LT	6
I-80	716+10	LT	6
I-80	716+10	LT	6
RAMP AD	25+15	LT	8
RAMP AD	20+05	RT	8
RAMP AD	19+85	RT	8
RAMP BD	27+70	RT	8
RAMP BD	27+82	RT	8
TOTAL			82

TEMPORARY CONCRETE BARRIER (INSTALL ONLY) (X0325444)		
LOCATION (US 30)		FOOT
STATION	STATION	
315+82	317+95	212.5
TOTAL		212.5

REMOVE TEMPORARY CONCRETE BARRIER STATE OWNED (X0321750)		
LOCATION (US 30)		FOOT
STATION	STATION	
313+58	315+82	224
TOTAL		224

TREE REMOVAL (OVER 15 UNITS DIAMETER) (20100210)			
LOCATION			UNIT
LOCATION	STATION	L/R	
I-80	643+65	LT	16
I-80	643+65	LT	16
TOTAL			32

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)		
LOCATION (FRONTAGE ROAD)		FOOT
STATION	STATION	
33+95	35+57	162.5
TOTAL		162.5

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)		
LOCATION		EACH
STATION	LOCATION	
33+45	FRONTAGE RD.	1
36+07	FRONTAGE RD.	1
TOTAL		2

GUARDRAIL REMOVAL (63200310)		
LOCATION (FRONTAGE ROAD)		FOOT
STATION	STATION	
33+45	34+32	88
LOCATION (US 30)		
314+67	315+35	68
315+90	316+75	85
TOTAL		241

IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (64300260)		
LOCATION (US 30)		EACH
STATION		
317+95		1
TOTAL		1

SELECTIVE CLEARING (Z0064800)				
LOCATION				UNIT
LOCATION	STATION	STATION	LT / RT	
I-80	643+50		LT	1.3
I-80	647+25		RT	0.5
I-80	654+00		RT	3.8
I-80	654+25	658+00	RT	7.5
I-80	655+00	657+25	LT	4.5
I-80	658+00	659+00	LT	2.0
I-80	659+00	663+00	RT	8.0
I-80	660+80		RT	1.5
WEST INFIELD				3.0
EAST INFIELD				2.0
I-80	671+00		LT	5.0
I-80	675+50		LT	1.2
I-80	675+50		RT	2.5
I-80	677+50		LT	10.0
I-80	677+50		RT	3.0
I-80	678+50		LT	2.5
I-80	679+50		RT	1.0
I-80	679+75		LT	5.0
I-80	708+00		LT	5.0
I-80	710+00		LT	1.5
RAMP AD	16+50	20+25	RT	7.5
RAMP AD	25+00	25+50	RT	0.8
RAMP AD	19+75	20+25	RT	0.6
RAMP AD	19+75	20+25	RT	0.6
RAMP AD	19+75	20+25	RT	0.1
US 30	304+50	307+00	RT	5.0
TOTAL				85

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST TOWER LOCATION			VOLUME CALCULATIONS (CU YD)					
	STATION	ALIGNMENT	OFFSET (FT)	EARTH EXCAVATION (20200100)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)	ROCK EXCAVATION (20200200)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
AB2	640+00.00	F.A.I. 80	RT 100	5.8	4.9	15.0	0.0	9.8	-4.9
EF2	643+50.00	F.A.I. 80	LT 100	29.5	25.1	24.0	0.0	13.5	11.5
AB1	647+25.00	F.A.I. 80	RT 115	376.6	320.1	105.0	0.0	1.6	318.5
EF1	650+50.00	F.A.I. 80	LT 110	150.2	127.6	69.0	0.0	0.5	127.2
CD4	654+00.00	F.A.I. 80	RT 115	83.6	71.1	29.0	0.0	7.1	64.0
GH3	657+10.00	F.A.I. 80	LT 103.5	84.5	71.8	34.0	170.1	5.8	66.1
CD3	660+80.00	F.A.I. 80	RT 120	137.1	116.5	55.0	403.0	0.0	116.5
GH2	664+00.00	F.A.I. 80	LT 125	0.0	0.0	8.0	8.9	0.0	0.0
CD2	667+00.00	F.A.I. 80	RT 100	5.8	5.0	24.0	0.0	5.6	-0.7
GH1	669+00.00	F.A.I. 80	LT 140	0.1	0.1	33.0	0.2	28.0	-27.9
CD1	671+30.00	F.A.I. 80	RT 130	0.0	0.0	40.0	0.0	88.8	-88.8
IJ1	671+69.00	F.A.I. 80	LT 94	0.0	0.0	18.0	0.0	36.6	-36.6
MN1	675+50.00	F.A.I. 80	RT 115	0.0	0.0	8.0	0.0	0.0	0.0
KL1	678+50.00	F.A.I. 80	LT 88	0.0	0.0	70.0	0.0	731.9	-731.9
MN2	707+00.00	F.A.I. 80	RT 83	0.0	0.0	23.0	0.0	37.2	-37.2
KL2	710+00.00	F.A.I. 80	LT 83	0.0	0.0	22.0	0.0	89.3	-89.3
KL3	713+65.00	F.A.I. 80	LT 79.1	0.0	0.0	22.0	0.0	39.2	-39.2
IJ3	20+00.00	RAMP AD	RT 60	0.0	0.0	20.0	0.0	14.2	-14.2
OR2	34+50.00	RAMP CB	RT 55	41.8	35.5	27.0	0.0	0.9	34.6
OR1	21+50.00	RAMP BD	RT 53.3	5.0	4.3	22.0	0.0	10.1	-5.8
IJ4	304+50.00	US 30	RT 80	40.0	34.0	18.0	0.0	0.2	33.8
IJ2	308+85.00	US 30	RT 120	120.9	102.8	95.0	55.4	0.0	102.8

SUMMARY						
20200100	20201200	20200200	20400800			
EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	ROCK EXCAVATION	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
1081	919	781	638	1120	-201	201

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ENGINEERING CONSULTANT	USER NAME = wlanester	DESIGNED - RJR	REVISED -
		DRAWN - RJR	REVISED -
	PLOT SCALE = 2.0000' / IN.	CHECKED - JMV	REVISED -
	PLOT DATE = 2/14/2012	DATE - 02-14-2012	REVISED -

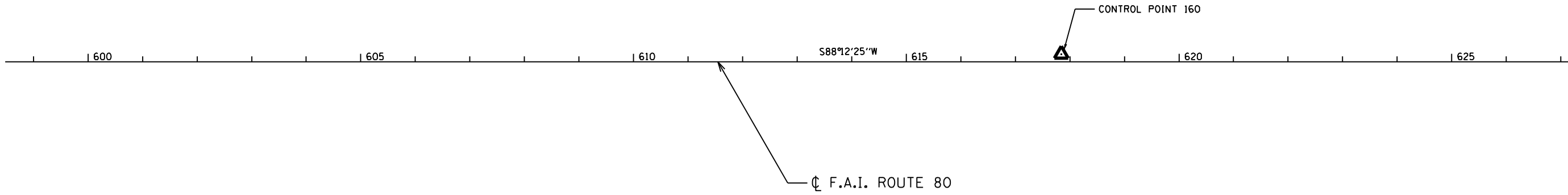
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SCHEDULE OF QUANTITIES**

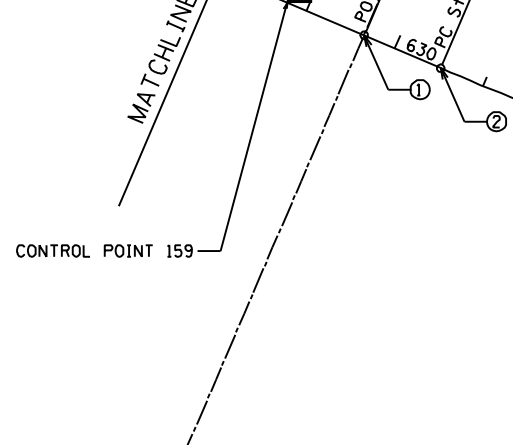
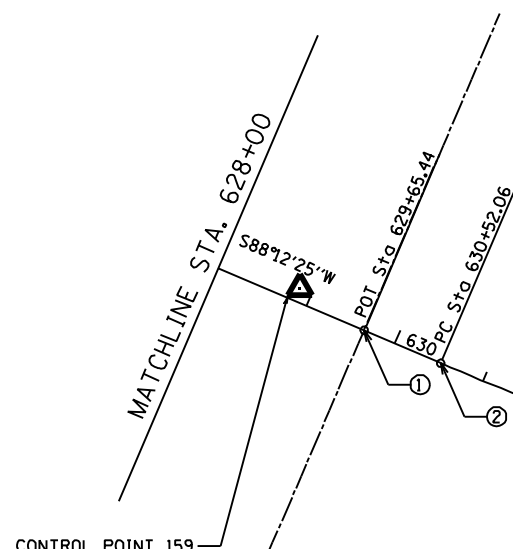
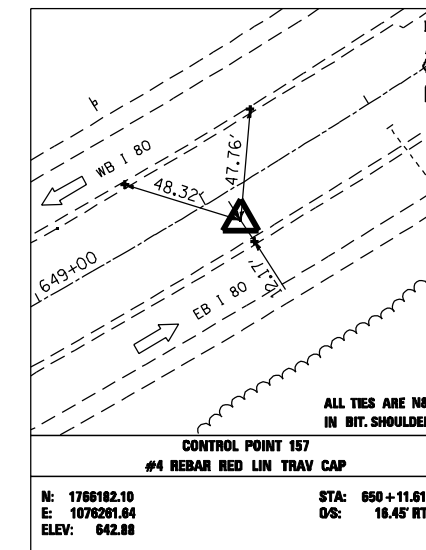
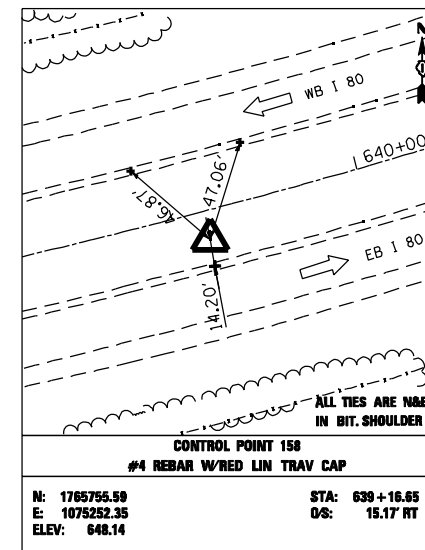
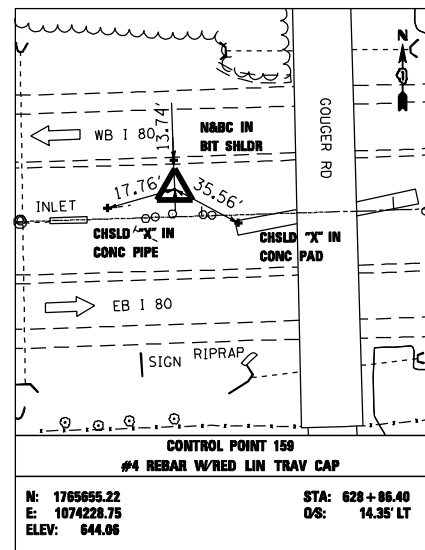
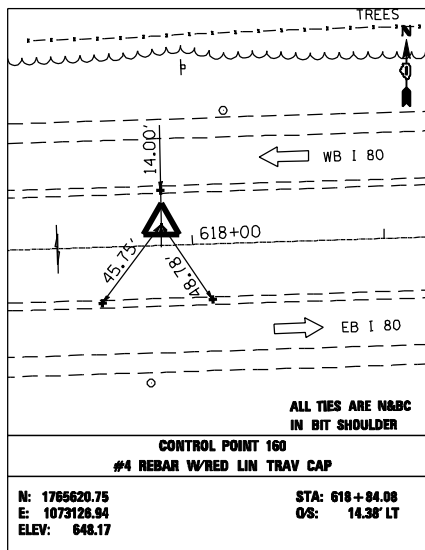
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 9
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

BM#	DESCRIPTION	ELEVATION
BM55	CHISELED SQUARE ON NORTHERLY SIDE OF CONCRETE FOUNDATION TO SIGN THAT READS "NEW LENOX EXIT 137" ON SOUTH SIDE I-80 APPROX 800' WEST OF GOUGER RD BRIDGE	647.05
BM54	CHISELED SQUARE ON CONCRETE SLAB AROUND MEDIAN PIER FOR GOUGER RD BRIDGE ON SW CORNER OF SLAB WEST SIDE OF BRIDGE	644.02
BM53	CHISELED SQUARE ON STEEL FOUNDATION TO MEDIAN POLE WITH SOLAR PANEL ON IT	646.31



MATCHLINE STA. 628+00



NUMBER	LOCATION	DESCRIPTION	STATION	NORTHING	EASTING
1	FAI - 80	P.O.T. STATION	629+65.44	1765643.340	1074308.178
2	FAI - 80	P.C. STATION	630+52.06	1765646.051	1074394.757
3	RAMP AD	P.T. STATION	40+92.99	1766091.007	1075957.639

CURVE DATA - F.A.I. ROUTE 80

Curve	PI STA.	Delta	D	R	T	L	E	P.C. STA	P.T. STA
CURVE E-180-1	660+41.68	76° 06' 07" (LT)	1° 30' 00"	3,819.53'	2,989.62'	5,073.21'	1,030.89'	630+52.06	681+25.27
PROP. CURVE PRAD-3	34+80.59	18° 50' 18" (RT)	1° 31' 27"	3,759.45'	623.66'	1,236.06'	51.38'	28+56.93	40+92.99

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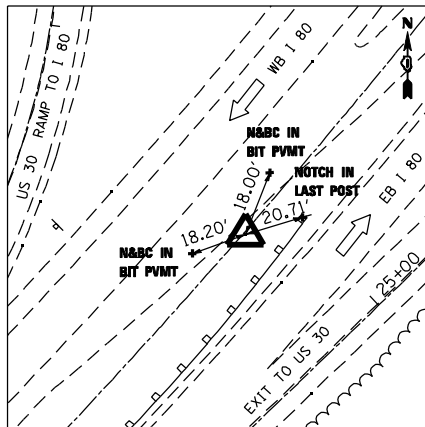
USER NAME = jvandra	DESIGNED - NT	REVISED -
PLLOT SCALE = 200.0000' / IN.	DRAWN - NT	REVISED -
PLLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

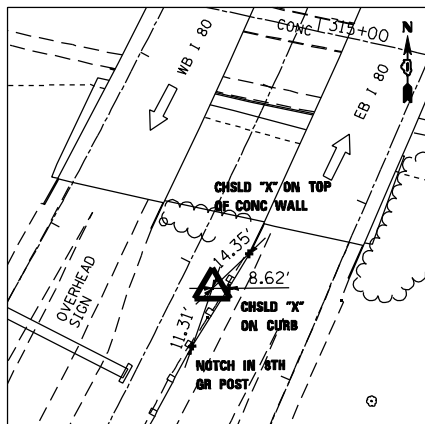
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
ALIGNMENTS, TIES, AND BENCHMARKS**

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

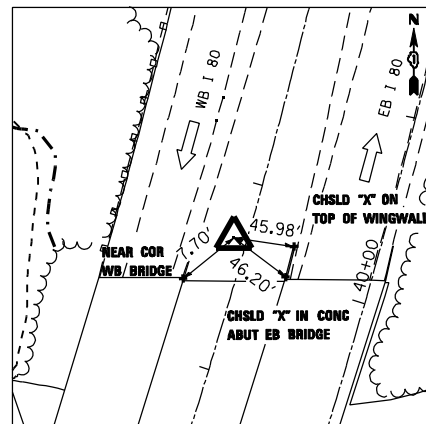
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	10
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



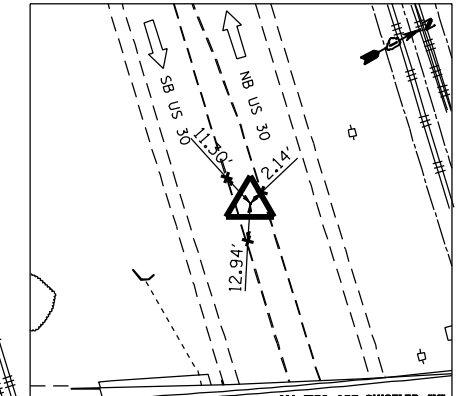
CONTROL POINT 156	
#4 REBAR W/RED LIN TRAV. CAP	
N: 1766850.69	STA: 661+90.53
E: 1077153.15	OS: 1.15' RT
ELEV: 636.15	



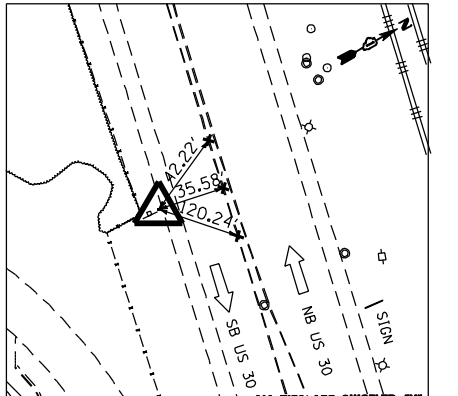
CONTROL POINT 155	
#4 REBAR W/RED LIN TRAV. CAP	
N: 1767788.88	STA: 672+07.04
E: 1077727.87	OS: 18.06' RT
ELEV: 646.02	



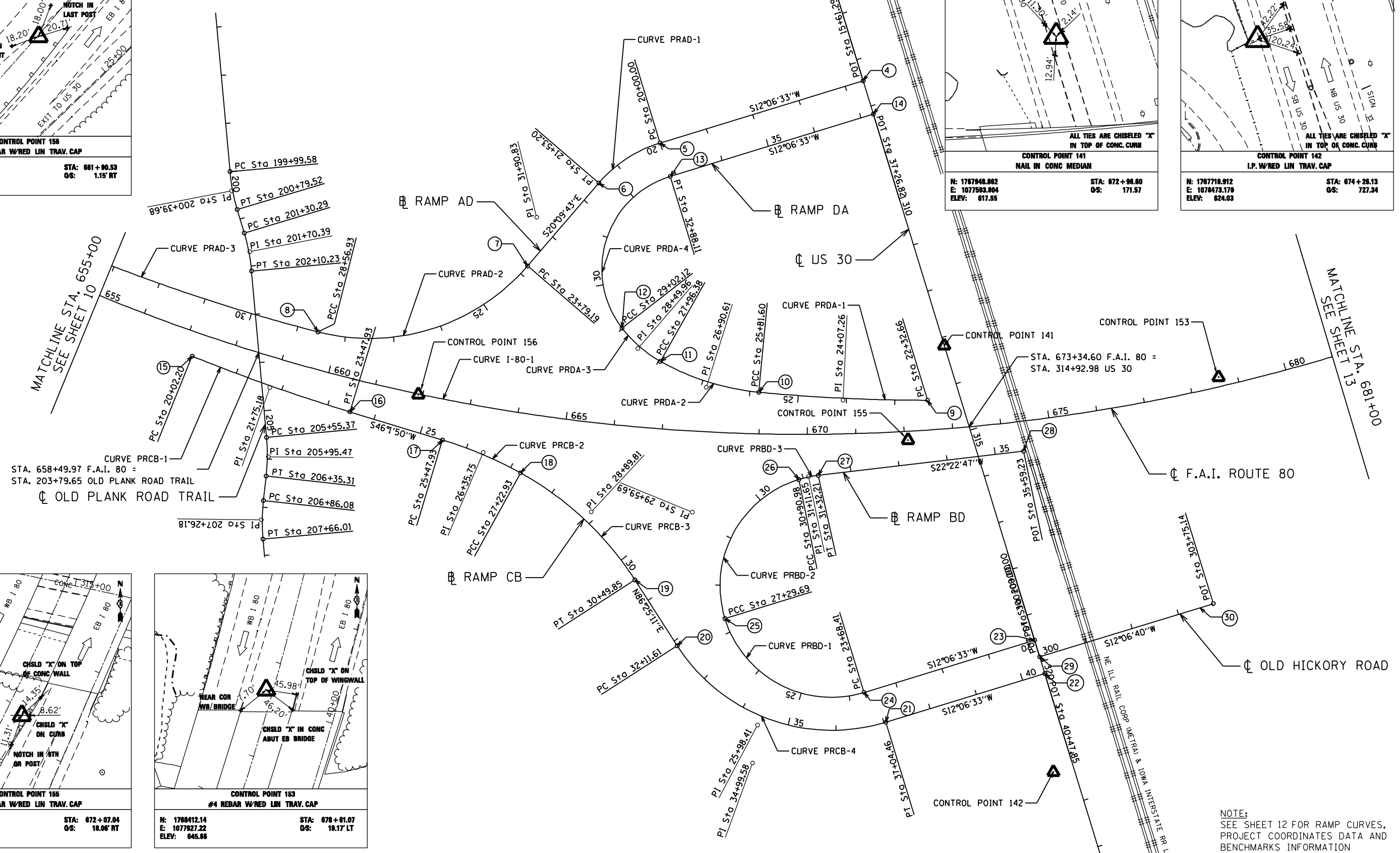
CONTROL POINT 153	
#4 REBAR W/RED LIN TRAV. CAP	
N: 1768412.14	STA: 678+01.07
E: 1077827.22	OS: 19.17' LT
ELEV: 645.86	



CONTROL POINT 141	
NAIL IN CONC MEDIAN	
N: 1767948.862	STA: 672+96.80
E: 1077593.804	OS: 171.57
ELEV: 617.55	



CONTROL POINT 142	
I.P. W/RED LIN TRAV. CAP	
N: 1767718.912	STA: 674+26.13
E: 1078473.179	OS: 727.34
ELEV: 624.03	



NOTE:
SEE SHEET 12 FOR RAMP CURVES,
PROJECT COORDINATE DATA AND
BENCHMARKS INFORMATION

CURVE DATA - US 30 INTERCHANGE RAMPS

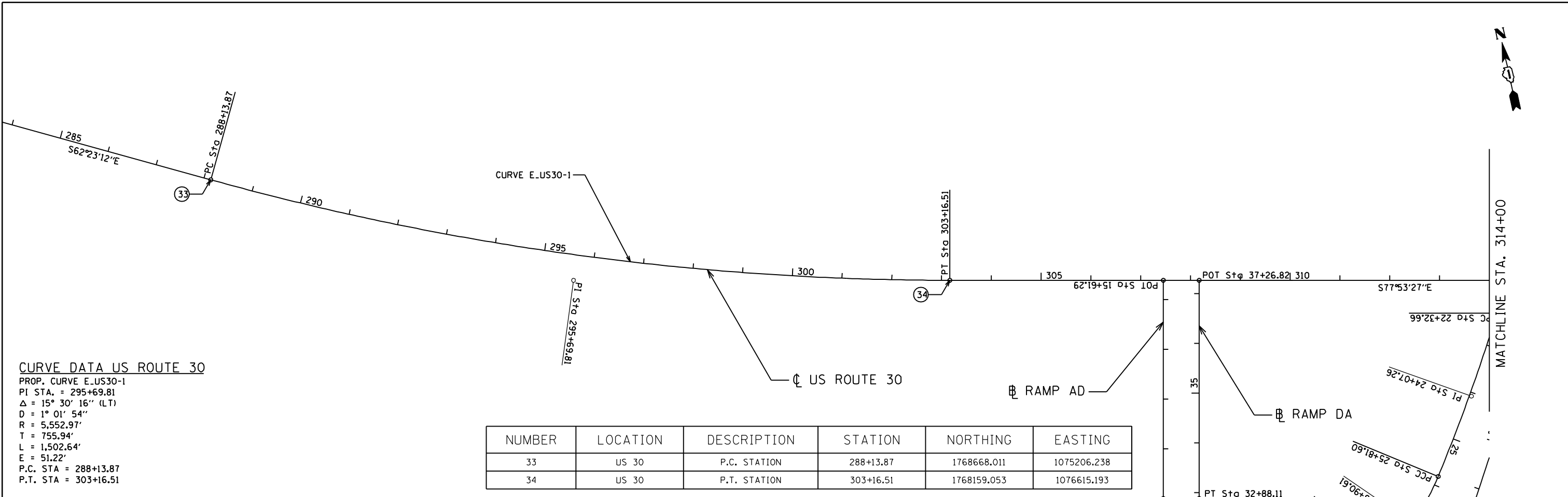
PROP. CURVE PRAD-1 PI STA. = 20+78.69 Δ = 32° 16' 16" (LT) D = 21° 03' 53" R = 272.00' T = 78.69' L = 153.20' E = 11.15' P.C. STA = 20+00.00 P.T. STA = 21+53.20	PROP. CURVE PRDA-1 PI STA. = 24+07.26 Δ = 5° 21' 19" (RT) D = 1° 32' 05" R = 3,733.30' T = 174.60' L = 348.95' E = 4.08' P.C. STA = 22+32.66 P.T. STA = 25+81.60	PROP. CURVE PRDA-3 PI STA. = 28+49.96 Δ = 22° 51' 43" (RT) D = 21° 37' 16" R = 265.00' T = 53.58' L = 105.74' E = 5.36' P.C. STA = 27+96.38 P.T. STA = 29+02.12	PROP. CURVE PRCB-1 PI STA. = 21+75.18 Δ = 5° 07' 47" (LT) D = 1° 29' 02" R = 3,861.46' T = 172.98' L = 345.72' E = 3.87' P.C. STA = 20+02.20 P.T. STA = 23+47.93	PROP. CURVE PRCB-3 PI STA. = 28+89.81 Δ = 28° 22' 52" (RT) D = 8° 40' 52" R = 660.00' T = 166.89' L = 326.93' E = 20.77' P.C. STA = 27+22.93 P.T. STA = 30+49.85	PROP. CURVE PRBD-1 PI STA. = 25+98.41 Δ = 90° 00' 00" (RT) D = 24° 54' 40" R = 230.00' T = 230.00' L = 361.28' E = 95.27' P.C. STA = 23+68.41 P.T. STA = 27+29.69	PROP. CURVE PRBD-3 PI STA. = 31+11.65 Δ = 10° 16' 15" (RT) D = 24° 54' 40" R = 230.00' T = 20.67' L = 41.23' E = 0.93' P.C. STA = 30+90.98 P.T. STA = 31+32.21	PROP. CURVE PRBD-5 PI STA. = 41+23.62 Δ = 3° 53' 13" (LT) D = 1° 28' 35" R = 3,881.03' T = 131.70' L = 263.30' E = 2.23' P.C. STA = 39+91.92 P.T. STA = 42+55.22
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PROP. CURVE PRAD-2 PI STA. = 26+46.09 Δ = 63° 39' 23" (RT) D = 13° 19' 29" R = 430.00' T = 266.90' L = 477.74' E = 76.10' P.C. STA = 23+79.19 P.T. STA = 28+56.93	PROP. CURVE PRDA-2 PI STA. = 26+90.61 Δ = 24° 07' 46" (RT) D = 11° 14' 04" R = 510.00' T = 109.01' L = 214.78' E = 11.52' P.C. STA = 25+81.60 P.T. STA = 27+96.38	PROP. CURVE PRDA-4 PI STA. = 31+90.83 Δ = 110° 34' 38" (RT) D = 28° 38' 52" R = 200.00' T = 288.71' L = 385.99' E = 151.22' P.C. STA = 29+02.12 P.T. STA = 32+88.11	PROP. CURVE PRCB-2 PI STA. = 26+35.75 Δ = 12° 00' 29" (RT) D = 6° 51' 42" R = 835.00' T = 87.82' L = 175.00' E = 4.61' P.C. STA = 25+47.93 P.T. STA = 27+22.93	PROP. CURVE PRCB-4 PI STA. = 34+99.58 Δ = 74° 18' 38" (LT) D = 15° 04' 40" R = 380.00' T = 287.97' L = 492.85' E = 96.79' P.C. STA = 32+11.61 P.T. STA = 37+04.46	PROP. CURVE PRBD-2 PI STA. = 29+59.69 Δ = 90° 00' 00" (RT) D = 24° 54' 40" R = 230.00' T = 230.00' L = 361.28' E = 95.27' P.C. STA = 27+29.69 P.T. STA = 30+90.98
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NUMBER	LOCATION	DESCRIPTION	STATION	NORTHING	EASTING
4	RAMP AD	P.T. STATION	15+61.29	1768069.096	1077034.478
5	RAMP AD	P.C. STATION	20+00.00	1767640.147	1076942.448
6	RAMP AD	P.T. STATION	21+53.20	1767489.337	1076953.064
7	RAMP AD	P.C. STATION	23+79.19	1767277.196	1077030.957
8	RAMP AD	P.T. STATION	28+56.93	1766833.023	1076939.245
9	RAMP DA	P.C. STATION	22+32.66	1767863.748	1077675.669
10	RAMP DA	P.C. STATION	25+81.60	1767567.491	1077491.532
11	RAMP DA	P.C. STATION	27+96.38	1767421.021	1077336.616
12	RAMP DA	P.C. STATION	29+02.12	1767385.269	1077237.848
13	RAMP DA	P.T. STATION	32+88.11	1767625.044	1077012.846
14	RAMP DA	P.T. STATION	37+26.82	1768053.992	1077104.876
15	RAMP CB	P.C. STATION	20+02.20	1766581.407	1076856.272
16	RAMP CB	P.T. STATION	23+47.93	1766809.982	1077115.499
17	RAMP CB	P.C. STATION	25+47.93	1766948.837	1077259.441
18	RAMP CB	P.C. STATION	27+22.93	1767056.298	1077397.156
19	RAMP CB	P.T. STATION	30+49.85	1767155.062	1077705.310
20	RAMP CB	P.C. STATION	32+11.61	1767165.163	1077866.755
21	RAMP CB	P.T. STATION	37+04.46	1767464.708	1078214.571
22	RAMP CB	P.T. STATION	40+47.85	1767800.455	1078286.604
23	RAMP BD	P.T. STATION	20+00.00	1767815.559	1078216.206
24	RAMP BD	P.C. STATION	23+68.41	1767455.346	1078138.924
25	RAMP BD	P.C. STATION	27+29.69	1767278.712	1077865.793
26	RAMP BD	P.C. STATION	30+90.98	1767551.842	1077689.159
27	RAMP BD	P.T. STATION	31+32.21	1767591.165	1077701.365
28	RAMP BD	P.C. STATION	35+59.23	1767986.026	1077863.952
29	HICKORY RD	P.T. STATION	300+00.00	1767807.999	1078251.445
30	HICKORY RD	P.T. STATION	303+45.91	1768146.210	1078324.019

BM#	DESCRIPTION	ELEVATION
BM52	CHISELED "X" ON NE CORNER OF CONCRETE SLAB AROUND MEDIAN PIER FOR OLD PLANK RD TRAIL BRIDGE OVER I 80	632.38
BM51	CHISELED SQUARE ON TOP OF CONCRETE FOUNDATION IN MEDIAN TO OVERHEAD SIGN TRUSS (APPROX STA. 671+50)	646.92

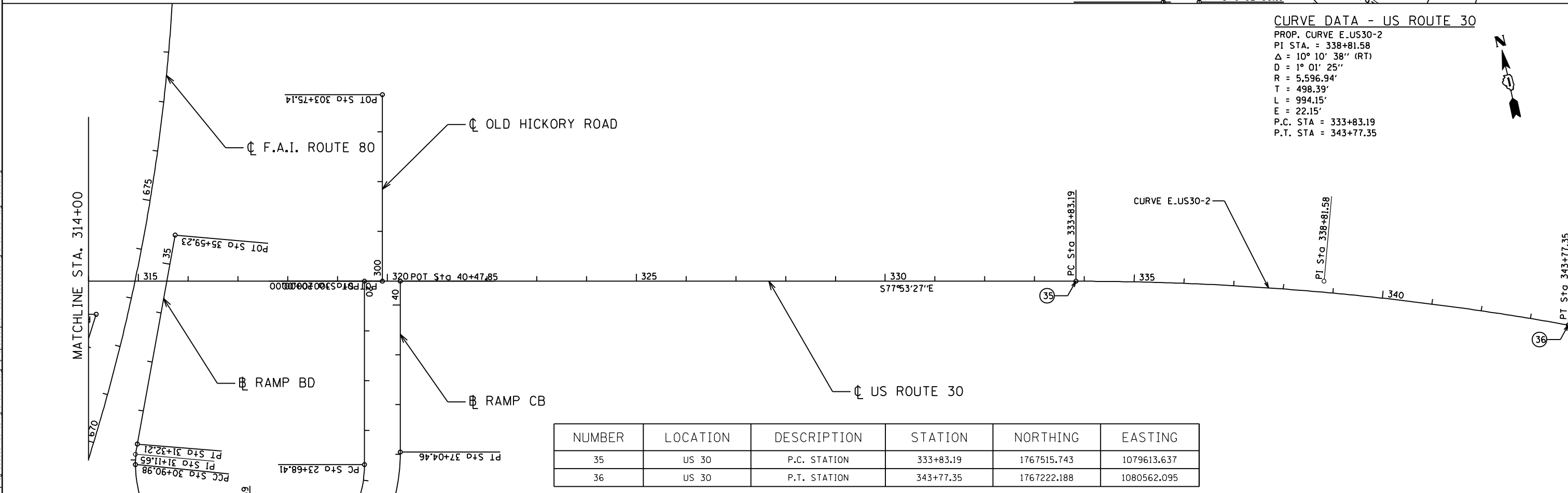
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CURVE DATA US ROUTE 30

PROP. CURVE E.US30-1
 PI STA. = 295+69.81
 $\Delta = 15^\circ 30' 16''$ (LT)
 D = $1^\circ 01' 54''$
 R = 5,552.97'
 T = 755.94'
 L = 1,502.64'
 E = 51.22'
 P.C. STA = 288+13.87
 P.T. STA = 303+16.51

NUMBER	LOCATION	DESCRIPTION	STATION	NORTHING	EASTING
33	US 30	P.C. STATION	288+13.87	1768668.011	1075206.238
34	US 30	P.T. STATION	303+16.51	1768159.053	1076615.193

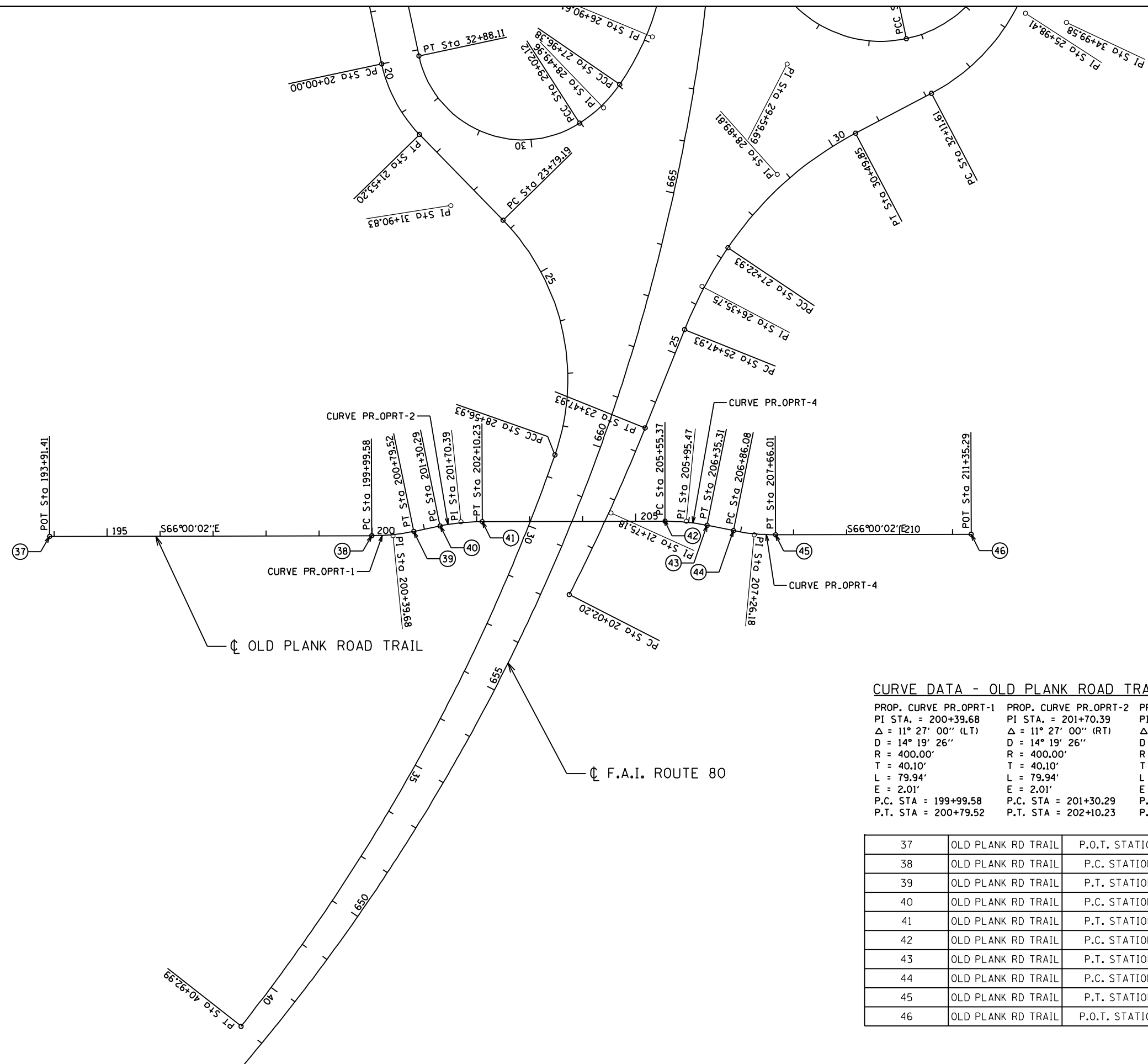


CURVE DATA - US ROUTE 30

PROP. CURVE E.US30-2
 PI STA. = 338+81.58
 $\Delta = 10^\circ 10' 38''$ (RT)
 D = $1^\circ 01' 25''$
 R = 5,596.94'
 T = 498.39'
 L = 994.15'
 E = 22.15'
 P.C. STA = 333+83.19
 P.T. STA = 343+77.35

NUMBER	LOCATION	DESCRIPTION	STATION	NORTHING	EASTING
35	US 30	P.C. STATION	333+83.19	1767515.743	1079613.637
36	US 30	P.T. STATION	343+77.35	1767222.188	1080562.095

<p>Ciorba Group, Inc. CONSULTING ENGINEERS 8007 North Cumberland Avenue, Suite 402 Chicago, Illinois 60638 Tel. 773.778.4008 Fax 773.778.4914 Email: ciorbagroup@ciorba.com</p>	USER NAME = jvandra	DESIGNED - NT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING ALIGNMENTS, TIES, AND BENCHMARKS	F.A.I. RTE. = 80	SECTION = 2011-046-L	COUNTY = WILL	TOTAL SHEETS = 106	SHEET NO. = 14		
	PLT SCALE = 200.0000' / IN.	CHECKED - JMV	REVISED -			SCALE: 1" = 100'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60P56			
	PLT DATE = 2/13/2012	DATE = 02-14-2012	REVISED -			ILLINOIS FED. AID PROJECT						



CURVE DATA - OLD PLANK ROAD TRAIL

PROP. CURVE PR.OPRT-1	PROP. CURVE PR.OPRT-2	PROP. CURVE PR.OPRT-3	PROP. CURVE PR.OPRT-4
PI STA. = 200+39.68	PI STA. = 201+70.39	PI STA. = 205+95.47	PI STA. = 207+26.18
Δ = 11° 27' 00" (LT)	Δ = 11° 27' 00" (RT)	Δ = 11° 27' 00" (RT)	Δ = 11° 27' 00" (LT)
D = 14° 19' 26"	D = 14° 19' 26"	D = 14° 19' 26"	D = 14° 19' 26"
R = 400.00'	R = 400.00'	R = 400.00'	R = 400.00'
T = 40.10'	T = 40.10'	T = 40.10'	T = 40.10'
L = 79.94'	L = 79.94'	L = 79.94'	L = 79.94'
E = 2.01'	E = 2.01'	E = 2.01'	E = 2.01'
P.C. STA = 199+99.58	P.C. STA = 201+30.29	P.C. STA = 205+55.37	P.C. STA = 206+86.08
P.T. STA = 200+79.52	P.T. STA = 202+10.23	P.T. STA = 206+35.31	P.T. STA = 207+66.01

Station	Description	Type	Station	Station	Station
37	OLD PLANK RD TRAIL	P.O.T. STATION	193+91.41	1766818.936	1076597.906
38	OLD PLANK RD TRAIL	P.C. STATION	199+99.58	1766835.246	1076561.271
39	OLD PLANK RD TRAIL	P.T. STATION	200+79.52	1766810.222	1076637.049
40	OLD PLANK RD TRAIL	P.C. STATION	201+30.29	1766799.191	1076686.607
41	OLD PLANK RD TRAIL	P.T. STATION	202+10.23	1766774.167	1076762.385
42	OLD PLANK RD TRAIL	P.C. STATION	205+55.37	1766633.788	1077077.692
43	OLD PLANK RD TRAIL	P.T. STATION	206+35.31	1766594.219	1077146.995
44	OLD PLANK RD TRAIL	P.C. STATION	206+86.08	1766564.773	1077188.354
45	OLD PLANK RD TRAIL	P.T. STATION	207+66.01	1766525.204	1077257.657
46	OLD PLANK RD TRAIL	P.O.T. STATION	211+35.29	1766375.009	1077595.011

ENGINEERING CONSULTANT
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 CONSULTING ENGINEERS
 2007 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60614
 Tel. 773.776.4008 Fax 773.776.4914
 Email: ciorba@ciorba.com

USER NAME = jvandra	DESIGNED - NT	REVISED -
PLOT SCALE = 200.0115' / IN.	DRAWN - NT	REVISED -
PLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 ALIGNMENTS, TIES, AND BENCHMARKS**

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

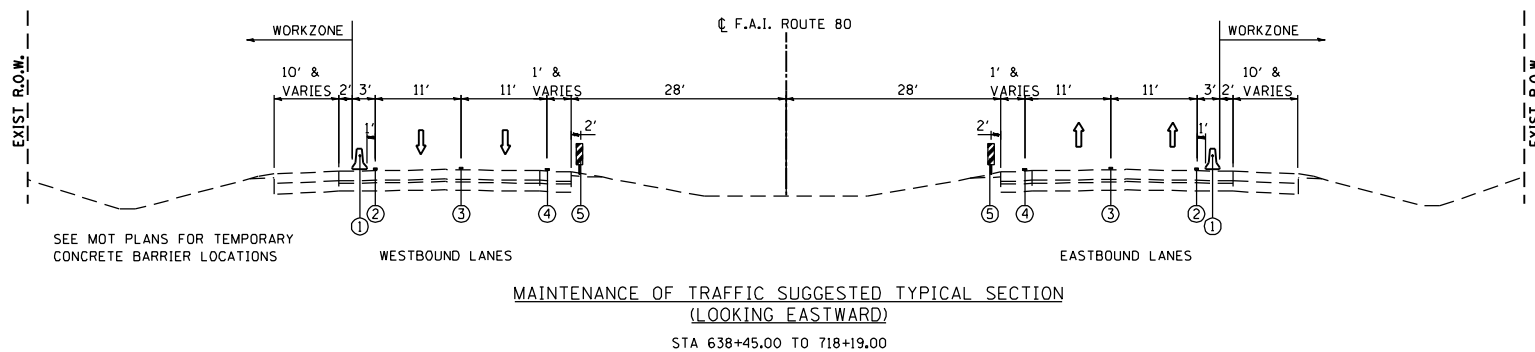
F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 15
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

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STAGING AND TRAFFIC CONTROL GENERAL NOTES

1. THE STAGING AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE MOVEMENT OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE STAGING AND TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE ENGINEER SHALL BE INFORMED 21 DAYS IN ADVANCE OF ANY CHANGE TO THE STAGING AND TRAFFIC CONTROL PLANS.
3. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT, OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
4. ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL AND PROTECTION, AS DETAILED ON THE PLANS, SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING EXISTING SPEED LIMIT SIGNS, GUIDE SIGNS, OR ANY OTHER CONFLICTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE METHOD IN WHICH THE SIGNS WILL BE COVERED TO THE ENGINEER FOR APPROVAL.
6. LOCATIONS OF CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
7. PRIOR TO REMOVING TRAFFIC CONTROL AND OPENING CLOSED PAVEMENT AREAS TO TRAFFIC, THE CONTRACTOR SHALL SWEEP THE PAVEMENT SURFACE CLEAN. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)," OR TC&P (ARTERIALS).
8. THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK OR PLACING ANY SIGNS OR TRAFFIC CONTROL DEVICES ON I-80 AND U.S. ROUTE 30.
9. WEEKDAY CONSTRUCTION ACTIVITY THAT WILL NECESSITATE LANE CLOSURES ON US ROUTE 30 IN ACCORDANCE WITH STANDARD 701601 MUST BE LIMITED TO THE HOURS BETWEEN 9:00 A.M. AND 3:00 P.M. IN ORDER TO AVOID THE PEAK RUSH HOURS.
10. A 3.5 FOOT DEFLECTION ZONE SHALL BE MAINTAINED FROM THE BACK OF THE TEMPORARY CONCRETE BARRIER WALL TO ANY DROP OFFS OR OBSTRUCTIONS. IF A 3.5 FOOT DEFLECTION ZONE CANNOT BE MAINTAINED, THE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT THRU THE 3 ANCHOR HOLES ON THE TRAFFIC SIDE OF THE BARRIER WALL. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT IS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.

STAGING AND TRAFFIC TYPICAL SECTION
INTERSTATE 80



- LEGEND**
- ① TEMPORARY CONCRETE BARRIER
 - ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
10' DASH 30' SKIP
 - ④ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
 - ⑤ VERTICAL PANELS, 200' C-C

NOTES:
 A MINIMUM DISTANCE OF 1 FOOT SHALL BE MAINTAINED BETWEEN THE LANE LINE AND THE TEMPORARY CONCRETE BARRIER THROUGHOUT THE PROJECT.
 A MINIMUM DISTANCE OF 1 FOOT SHALL BE MAINTAINED BETWEEN THE LANE LINE AND THE EDGE OF SHOULDER THROUGHOUT THE PROJECT.

STAGING AND TRAFFIC CONTROL DESCRIPTION
PRE-STAGE INTERSTATE 80

CONSTRUCTION:
MILL AND RESURFACE EXISTING RUMBLE STRIPS.

TRAFFIC CONTROL:
WORK IS TO BE PERFORMED DURING NON-PEAK HOURS IN ACCORDANCE WITH STANDARD 701406.

STAGING AND TRAFFIC CONTROL DESCRIPTION
INTERSTATE 80

CONSTRUCTION:
PERFORM GRADING, CONSTRUCT HIGH MAST LIGHT TOWERS AND PERFORM RESTORATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL:
PROVIDE TWO 11' LANES IN EACH DIRECTION WEAVING TRAFFIC TO THE INSIDE SHOULDER, INSIDE TRAVEL LANE, AND OUTSIDE TRAVEL LANE.

TEMPORARY CONCRETE BARRIER SHALL BE UTILIZED TO PROVIDE POSITIVE SEPARATION BETWEEN THE WORK ZONE AND TRAFFIC LANES AS SHOWN IN THE TRAFFIC CONTROL PLANS.

STAGING AND TRAFFIC CONTROL DESCRIPTION
FRONTAGE ROAD

CONSTRUCTION:
PERFORM GRADING, CONSTRUCT HIGH MAST LIGHT TOWERS AND GUARDRAIL; AND PERFORM RESTORATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL:
TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD 701501.

STAGING AND TRAFFIC CONTROL DESCRIPTION
US ROUTE 30

CONSTRUCTION:
PERFORM GRADING, CONSTRUCT HIGH MAST LIGHT TOWERS LIGHT POLES, HOT-MIX ASPHALT SHOULDER, TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATOR; AND PERFORM RESTORATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL:
TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH STANDARDS 701101, 701106 AND 701601.



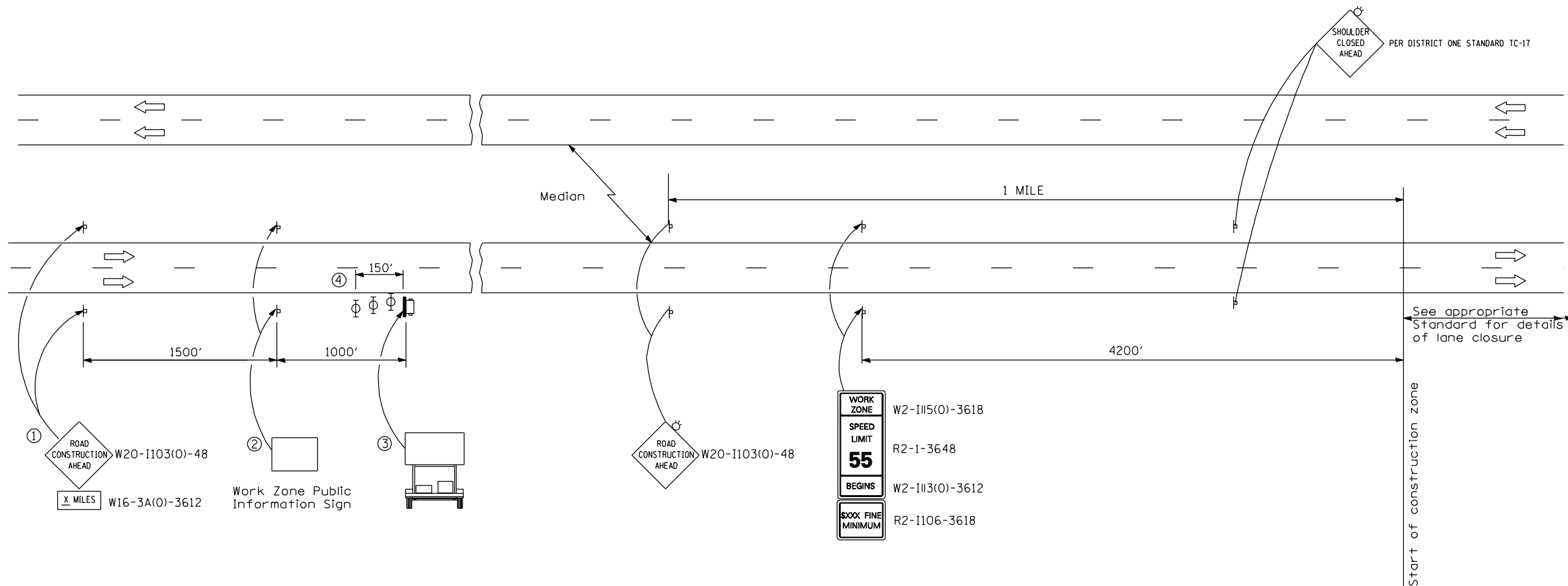
ENGINEERING CONSULTANT	USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
		DRAWN - JMK	REVISED -
	PLOT SCALE = 2.0000' / IN.	CHECKED - MJL	REVISED -
	PLOT DATE = 3/22/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
STAGING AND TRAFFIC CONTROL - GENERAL NOTES,
DESCRIPTION, & TYPICAL SECTION**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	16
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				



SYMBOLS

- ↑ Arrow board
- ☐ Portable changeable message sign
- ⌋ Sign

- ① The Road Construction Ahead sign shall be located 3 to 5 miles in advance of the project limits.
- ② The message and size of the Work Zone Public Information Sign shall be as specified by the Department.
- ③ The message board display shall be directed by the engineer.
- ④ Three, Type II barricades, drums, or vertical barricades at 50' centers.

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ENGINEERING CONSULTANT
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 8007 North Cumberland Avenue, Suite 402
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 Email: ciorba@ciorba.com

USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
	DRAWN - JMK	REVISED -
PLOT SCALE = 0:30.480 m / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 3/22/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

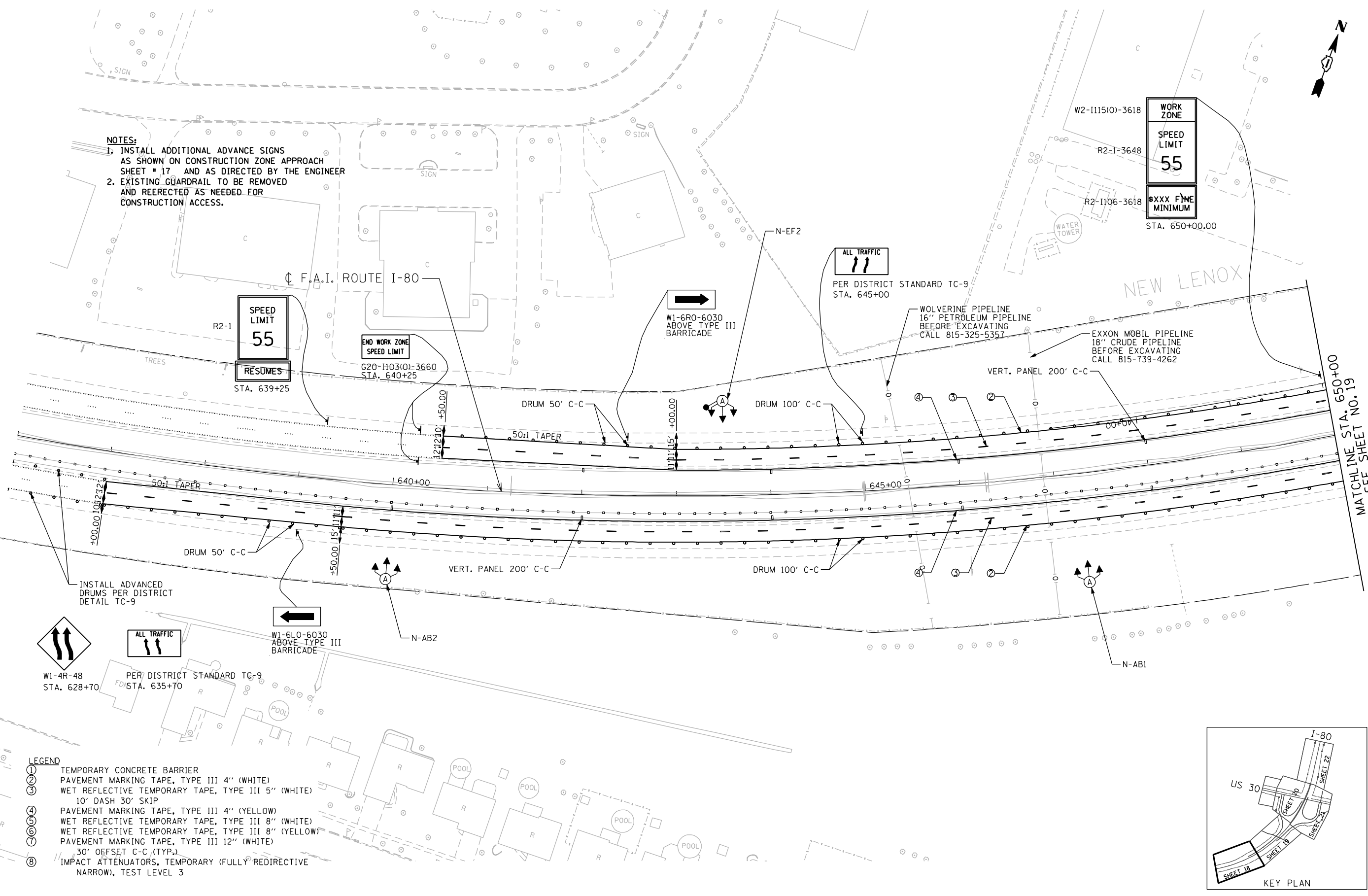
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CONSTRUCTION ZONE APPROACH DETAIL**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.: 80	SECTION: 2011-046-L	COUNTY: WILL	TOTAL SHEETS: 106	SHEET NO.: 17
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

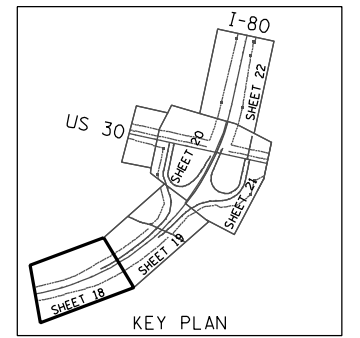
NOTES:

1. INSTALL ADDITIONAL ADVANCE SIGNS AS SHOWN ON CONSTRUCTION ZONE APPROACH SHEET # 17 AND AS DIRECTED BY THE ENGINEER
2. EXISTING GUARDRAIL TO BE REMOVED AND REERECTED AS NEEDED FOR CONSTRUCTION ACCESS.



LEGEND

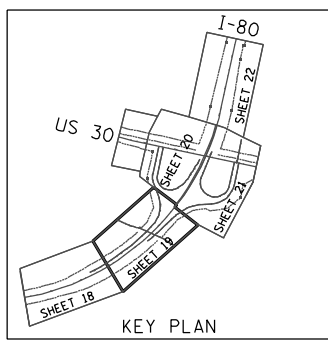
- ① TEMPORARY CONCRETE BARRIER
- ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
- ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
- ④ 10' DASH 30' SKIP
- ⑤ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
- ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
- ⑦ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
- ⑧ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
- ⑨ 30' OFFSET C-C (TYP.)
- ⑩ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3



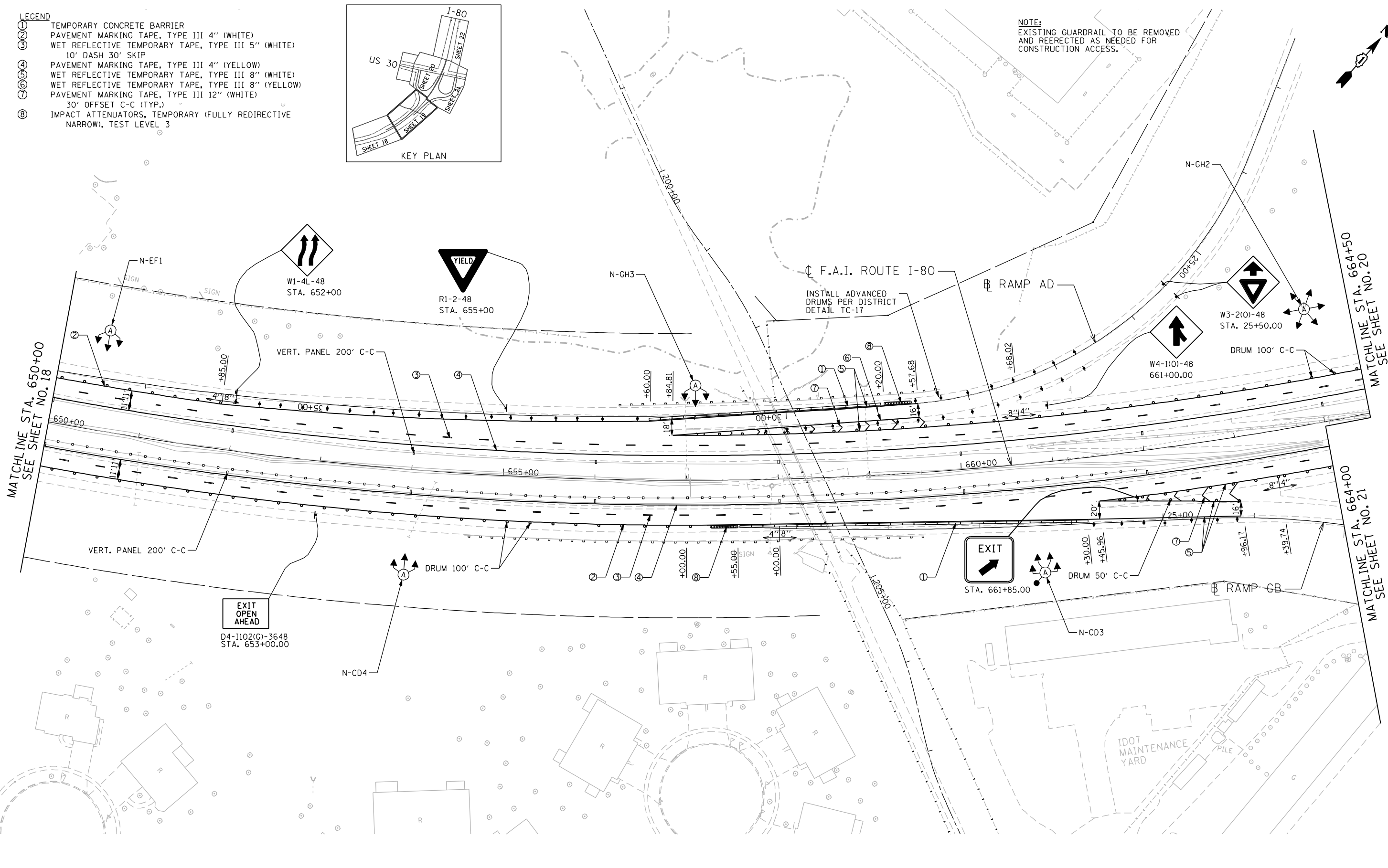
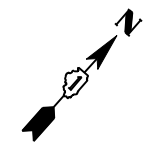
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ENGINEERING CONSULTANT Ciorba Group, Inc. CONSULTING ENGINEERS 8007 North Cumberland Avenue, Suite 402 Chicago, Illinois 60638 Tel. 773.778.4008 Fax 773.778.4914 Email: ciorba@ciorba.com	USER NAME = jk.jellman DESIGNED - JMK DRAWN - JMK PLLOT SCALE = 100.0000' / IN. PLLOT DATE = 3/22/2012	REVISIONS REVISIONS REVISIONS REVISIONS REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING STAGING AND TRAFFIC CONTROL PLAN	F.A.I. RTE. 80 SECTION 2011-046-L COUNTY WILL TOTAL SHEETS 106 SHEET NO. 18 CONTRACT NO. 60P56 ILLINOIS FED. AID PROJECT
	SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.				

- LEGEND**
- ① TEMPORARY CONCRETE BARRIER
 - ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
 - ④ 10' DASH 30' SKIP
 - ⑤ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
 - ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
 - ⑦ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
 - ⑧ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
 - ⑨ 30' OFFSET C-C (TYP.)
 - ⑩ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3



NOTE:
EXISTING GUARDRAIL TO BE REMOVED AND REERECTED AS NEEDED FOR CONSTRUCTION ACCESS.



\\svr202\public\proj\10002384\006_high_mast\design\MOI\3384_6_US30_High_Mast.ms02.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 8607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60634
 Tel. 773.778.4008 Fax 773.778.4914
 Email: ciorba@ciorba.com

USER NAME = jk.jeilman
 PLDT SCALE = 100.0000' / IN.
 PLDT DATE = 3/22/2012

DESIGNED - JMK
 DRAWN - JMK
 CHECKED - MJL
 DATE - 02-14-2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 STAGING AND TRAFFIC CONTROL PLAN**

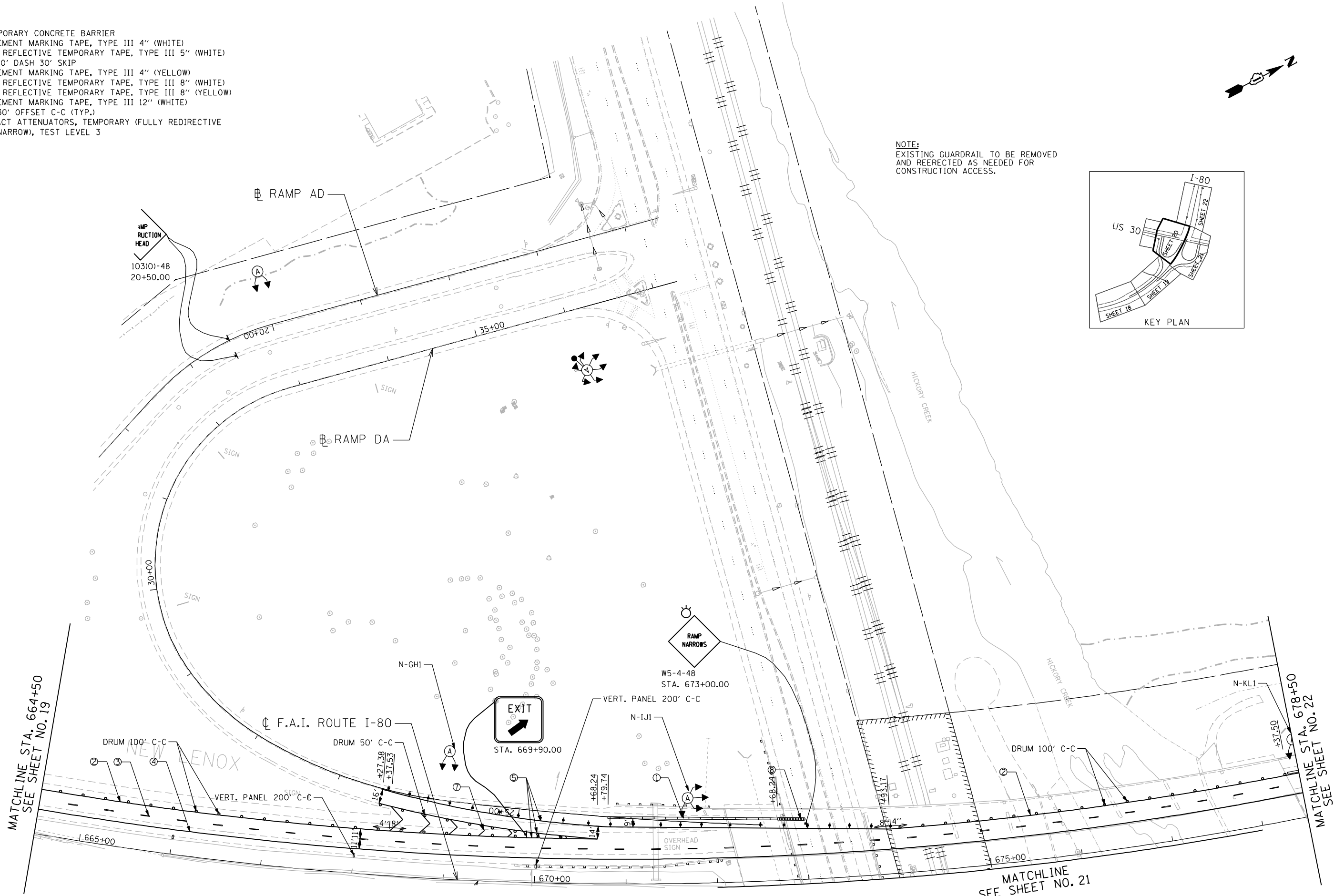
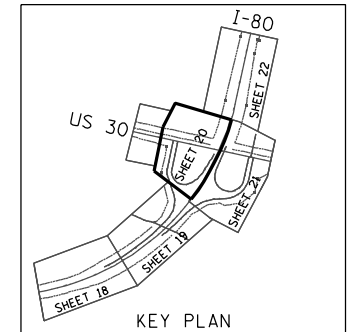
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	19
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

LEGEND

- ① TEMPORARY CONCRETE BARRIER
- ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
- ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
- ⑤ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
- ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
- ⑦ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
30' OFFSET C-C (TYP.)
- ⑧ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE
NARROW), TEST LEVEL 3

NOTE:
EXISTING GUARDRAIL TO BE REMOVED
AND REERECTED AS NEEDED FOR
CONSTRUCTION ACCESS.



\\svr202\public\proj\10003384-006_high_mast\design\MOI\3384_6_US30_High_Mast.ms03.dgn

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USER NAME = jk.jellman	DESIGNED - JMK	REVISED -
PLDT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
PLDT DATE = 3/22/2012	CHECKED - MJL	REVISED -
	DATE - 02-14-2012	REVISED -

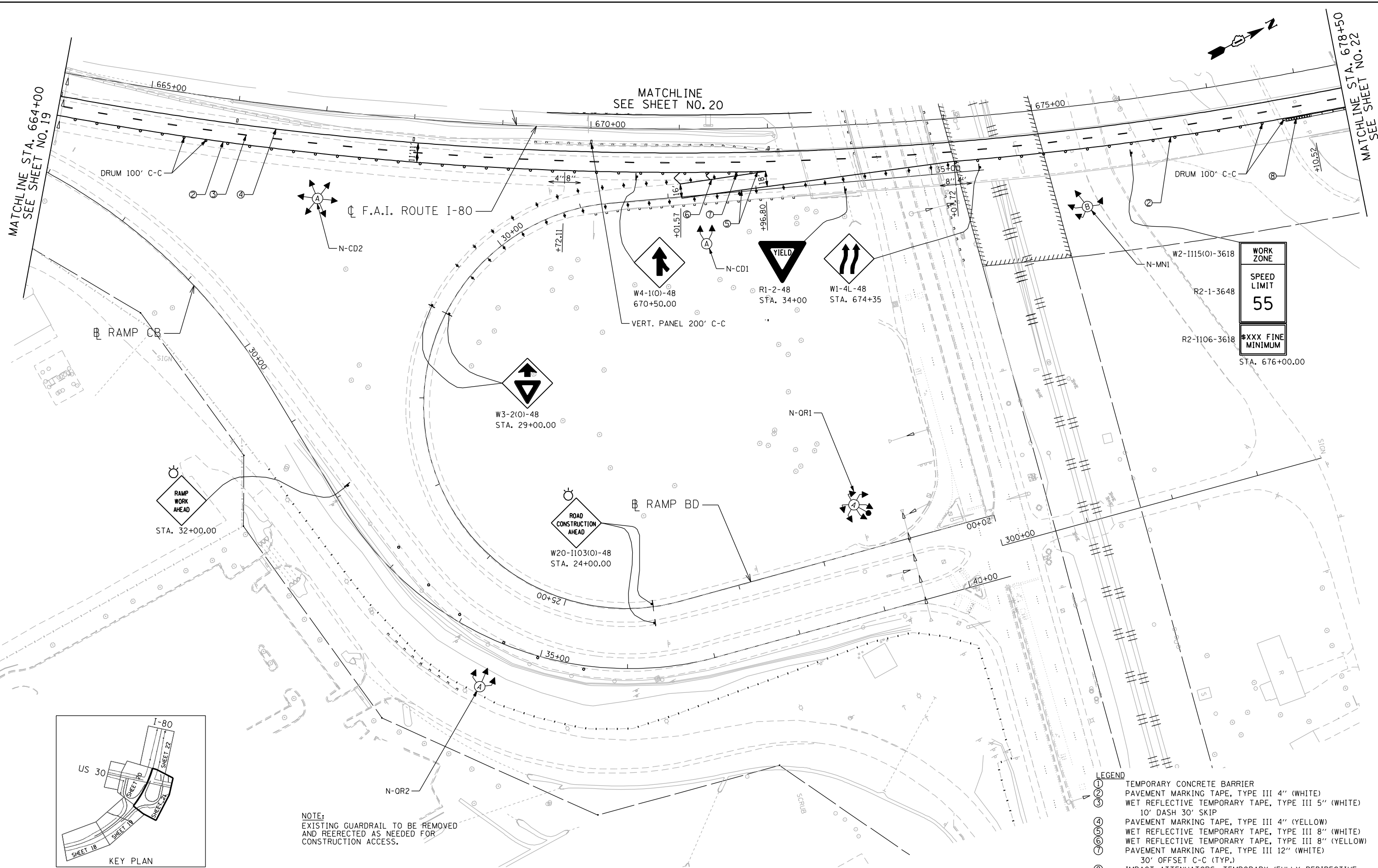
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DRAWN - JMK	REVISED -
CHECKED - MJL	REVISED -
DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
STAGING AND TRAFFIC CONTROL PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	20
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



WORK ZONE
SPEED LIMIT
55
XXXX FINE MINIMUM
STA. 676+00.00

RAMP WORK AHEAD
STA. 32+00.00

ROAD CONSTRUCTION AHEAD
W20-1103(0)-48
STA. 24+00.00

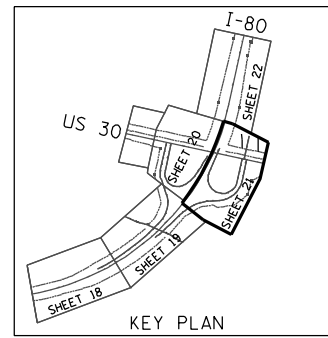
W3-2(0)-48
STA. 29+00.00

W4-1(0)-48
670+50.00

YIELD
R1-2-48
STA. 34+00

W1-4L-48
STA. 674+35

W2-1115(0)-3618
R2-1-3648
R2-1106-3618
STA. 676+00.00



NOTE:
EXISTING GUARDRAIL TO BE REMOVED
AND REERECTED AS NEEDED FOR
CONSTRUCTION ACCESS.

- LEGEND
- ① TEMPORARY CONCRETE BARRIER
 - ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
 - ④ 10' DASH 30' SKIP
 - ⑤ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
 - ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
 - ⑦ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
 - ⑧ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
 - ⑨ 30' OFFSET C-C (TYP.)
 - ⑩ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3

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USER NAME = jvandra
PLT SCALE = 100.0000' / IN.
PLT DATE = 3/22/2012

DESIGNED - JMK	REVISED -
DRAWN - JMK	REVISED -
CHECKED - MJL	REVISED -
DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
STAGING AND TRAFFIC CONTROL PLAN**

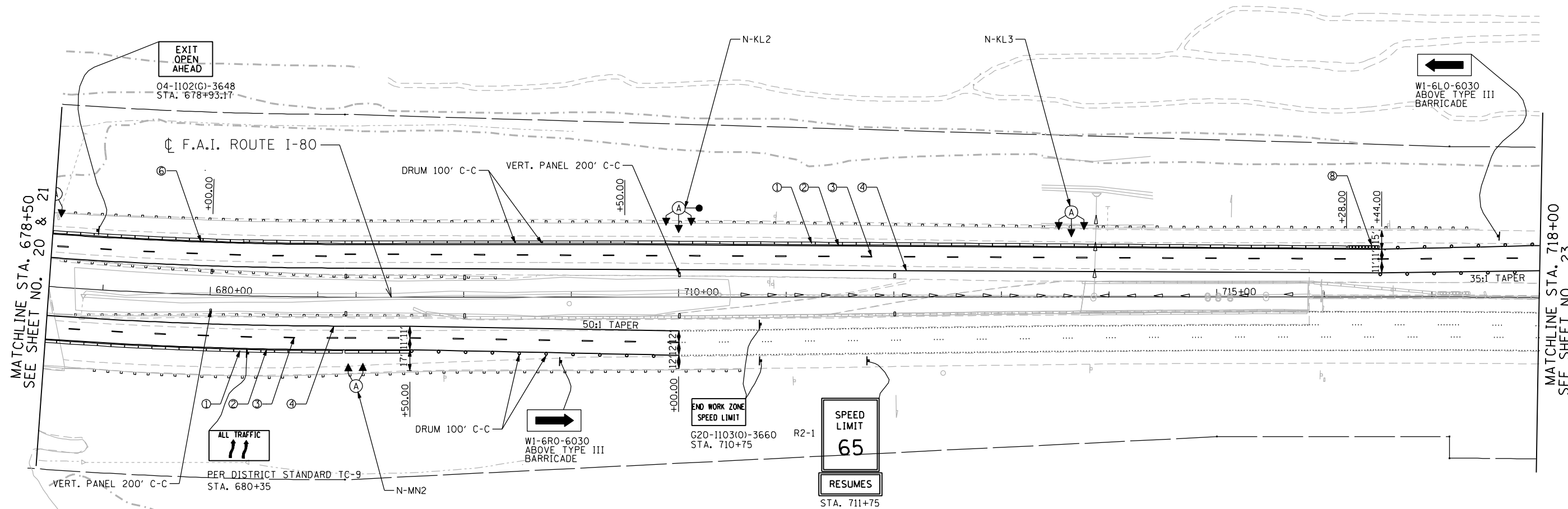
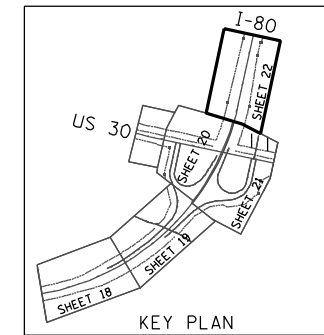
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	21
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- ① TEMPORARY CONCRETE BARRIER
 - ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
10' DASH 30' SKIP
 - ④ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
 - ⑤ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
 - ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
 - ⑦ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
30' OFFSET C-C (TYP.)
 - ⑧ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE
NARROW), TEST LEVEL 3

NOTE:
EXISTING GUARDRAIL TO BE REMOVED
AND REERECTED AS NEEDED FOR
CONSTRUCTION ACCESS.



\\svr202\public\proj\10002384\006_high_mast\design\MOI\3384_6_US30_High_Mast.mc05.dgn

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USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
PLLOT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
PLLOT DATE = 3/22/2012	CHECKED - MJL	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

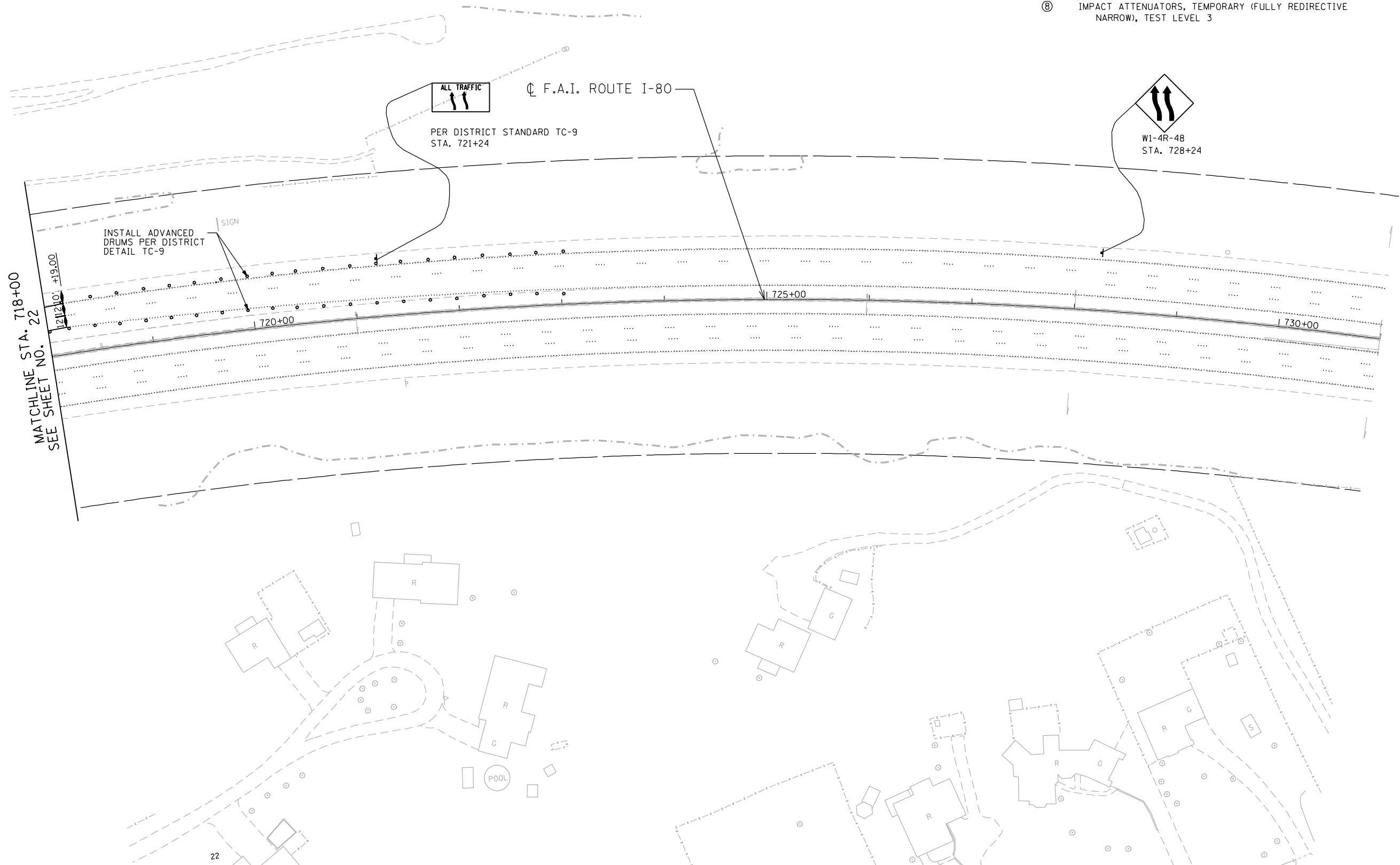
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
STAGING AND TRAFFIC CONTROL PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

NOTE:
 INSTALL ADDITIONAL ADVANCE SIGNS
 AS SHOWN ON CONSTRUCTION ZONE APPROACH
 SHEET # 17 AND AS DIRECTED BY THE ENGINEER

- LEGEND
- ① TEMPORARY CONCRETE BARRIER
 - ② PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III 5" (WHITE)
10' DASH 30' SKIP
 - ④ PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
 - ⑤ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (WHITE)
 - ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III 8" (YELLOW)
 - ⑦ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)
30' OFFSET C-C (TYP.)
 - ⑧ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE
NARROW), TEST LEVEL 3



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 Ciorba Group, Inc. CONSULTING ENGINEERS 8007 North Cumberland Avenue, Suite 402 Chicago, Illinois 60638 Tel. 773.778.4008 Fax 773.778.4914 Email: ciorba@ciorba.com	USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
	PLLOT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
	PLLOT DATE = 3/22/2012	CHECKED - MJL	REVISED -
		DATE - 02-14-2012	REVISED -





















STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

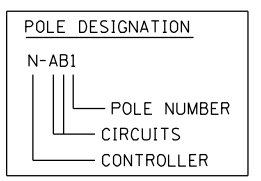
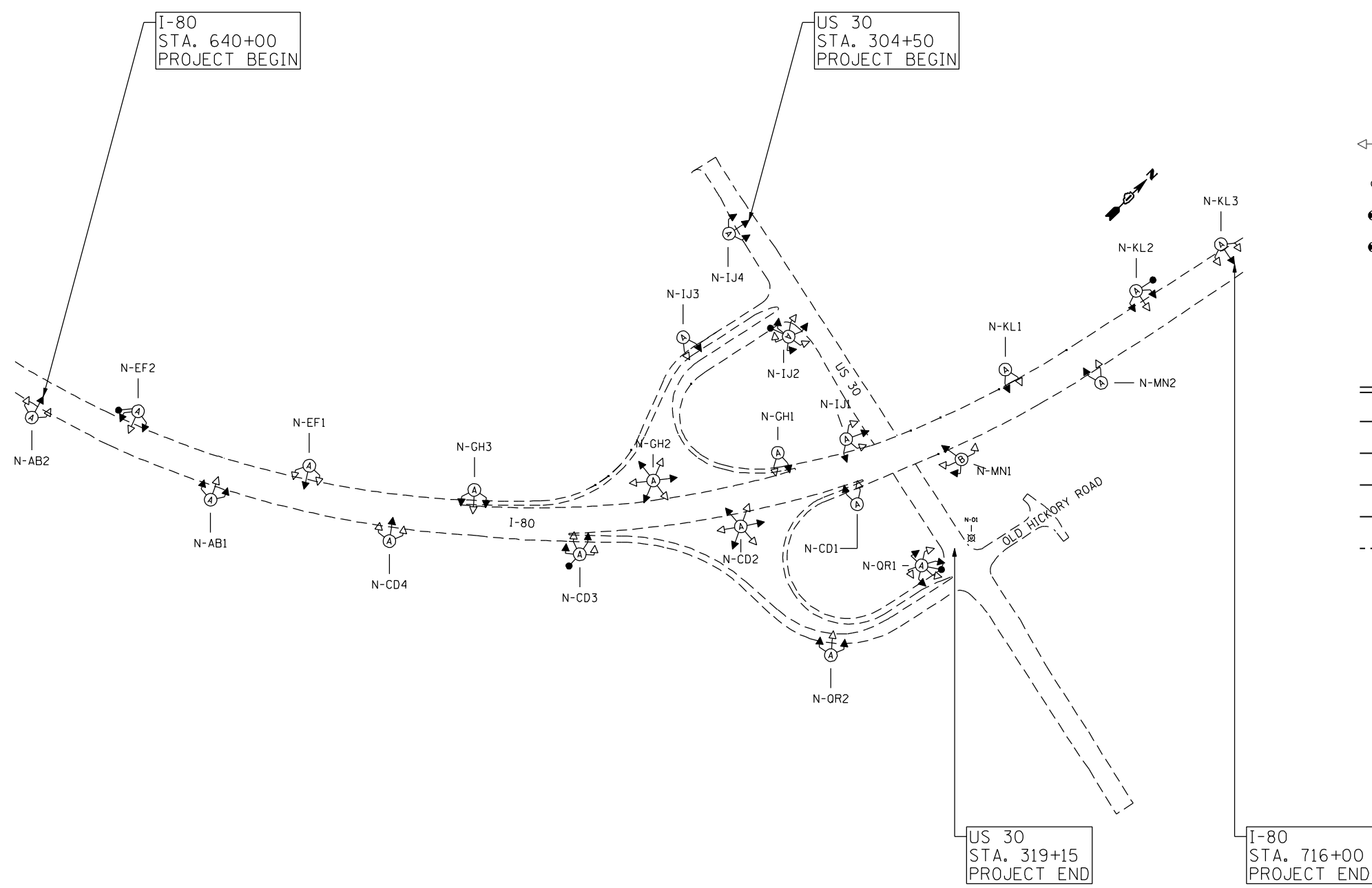
F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
STAGING AND TRAFFIC CONTROL PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.


F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 23
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

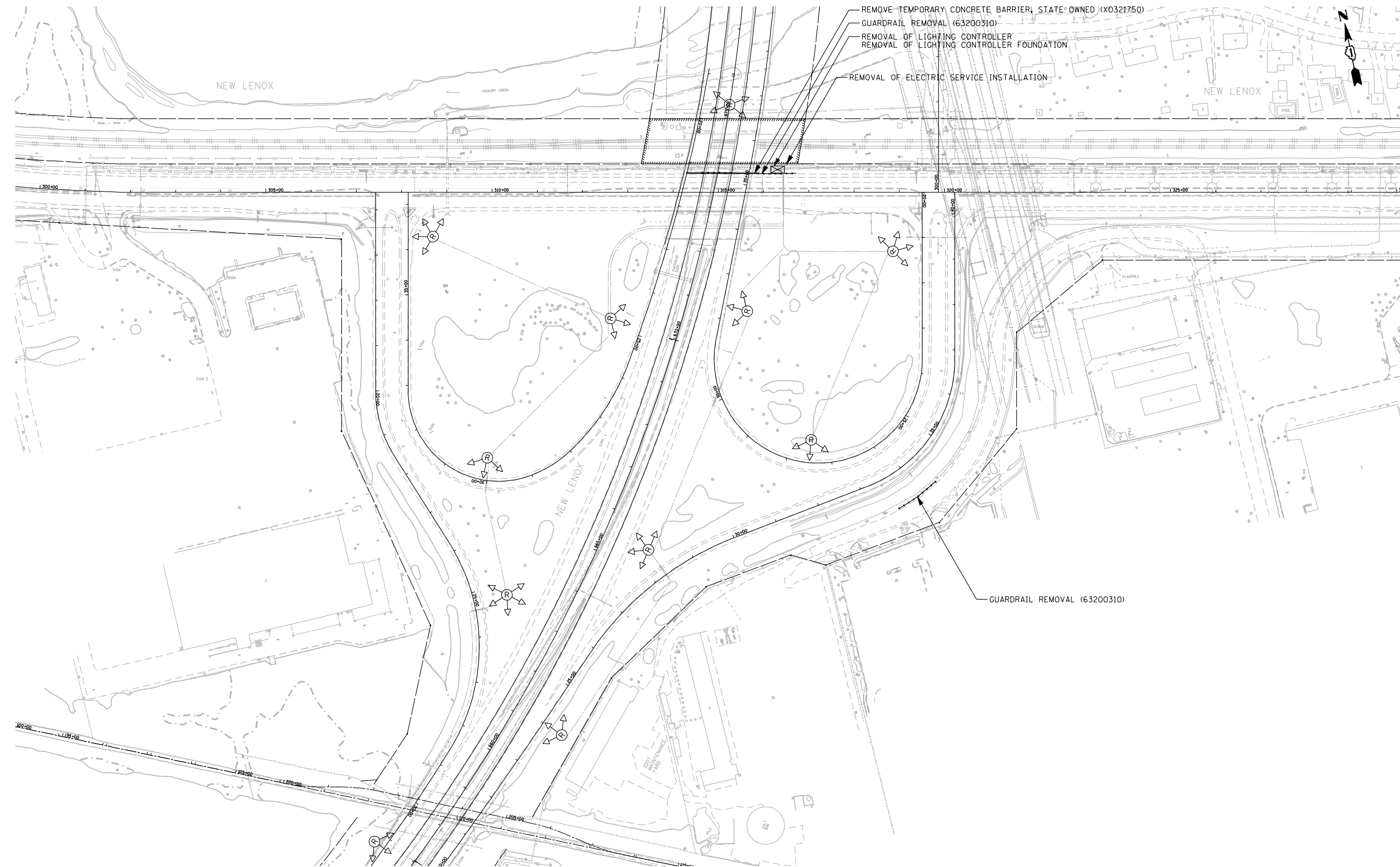
LEGEND

-  INSTALL LIGHT TOWER, 120' MOUNTING HEIGHT, WITH 750W LUMINAIRES
-  INSTALL LIGHT TOWER, 140' MOUNTING HEIGHT, WITH 750W LUMINAIRES
-  LUMINAIRE ON HIGH MAST TOWER
* PER POLE VARIES - 2, 3, 4, 5
(ORIENTATION PER DIRECTION OF ARROWS SHOWN ON PLANS)
-  ACCESS DOOR FOR HIGH MAST TOWER
(ORIENTATION PER PLACEMENT ON PLAN)
-  CCTV CAMERA ON HIGH MAST TOWER
-  REMOVAL OF LIGHTING UNIT, NO SALVAGE AND REMOVAL OF TOWER FOUNDATION
-  EXISTING LIGHT POLE WITH LUMINAIRE
-  TEMPORARY WOOD POLE WITH 400W LUMINAIRE
-  WOOD POLE WITH 400W LUMINAIRE
-  LIGHTING CONTROLLER, DUPLEX TYPE
-  PROPOSED HEAVY-DUTY HANDHOLE
-  PROPOSED COMMUNICATIONS VAULT
-  GALVANIZED STEEL CONDUIT, PUSHED DIAMETER AND LENGTH AS NOTED
-  UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
-  UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE, VIDEO POWER
-  FIBER OPTIC CABLE
-  AERIAL CABLE
-  PROPOSED CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
-  LIGHT POLE, WOOD, 60 FOOT, CLASS 3
-  EXISTING LIGHTING CONTROLLER



\\svr202\public\proj\0007384-00\6_high_mast\design\proposed.plt\3384-6_US30_High_Mast-06-Legend.dgn

	USER NAME = jkjeilman	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING LIGHTING LEGEND AND OVERVIEW	F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 24		
	PLLOT SCALE = 100.0000' / IN.	CHECKED - JMV	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60P56			
	PLLOT DATE = 3/22/2012	DATE - 02-14-2012	REVISED -			ILLINOIS FED. AID PROJECT						



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ENGINEERING CONSULTANT

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USER NAME = jvandra
 PLLOT SCALE = 200.0000' / IN.
 PLLOT DATE = 2/13/2012

DESIGNED - RJR
 DRAWN - RJR
 CHECKED - JMV
 DATE - 02-14-2012

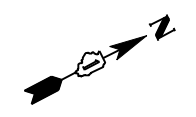
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

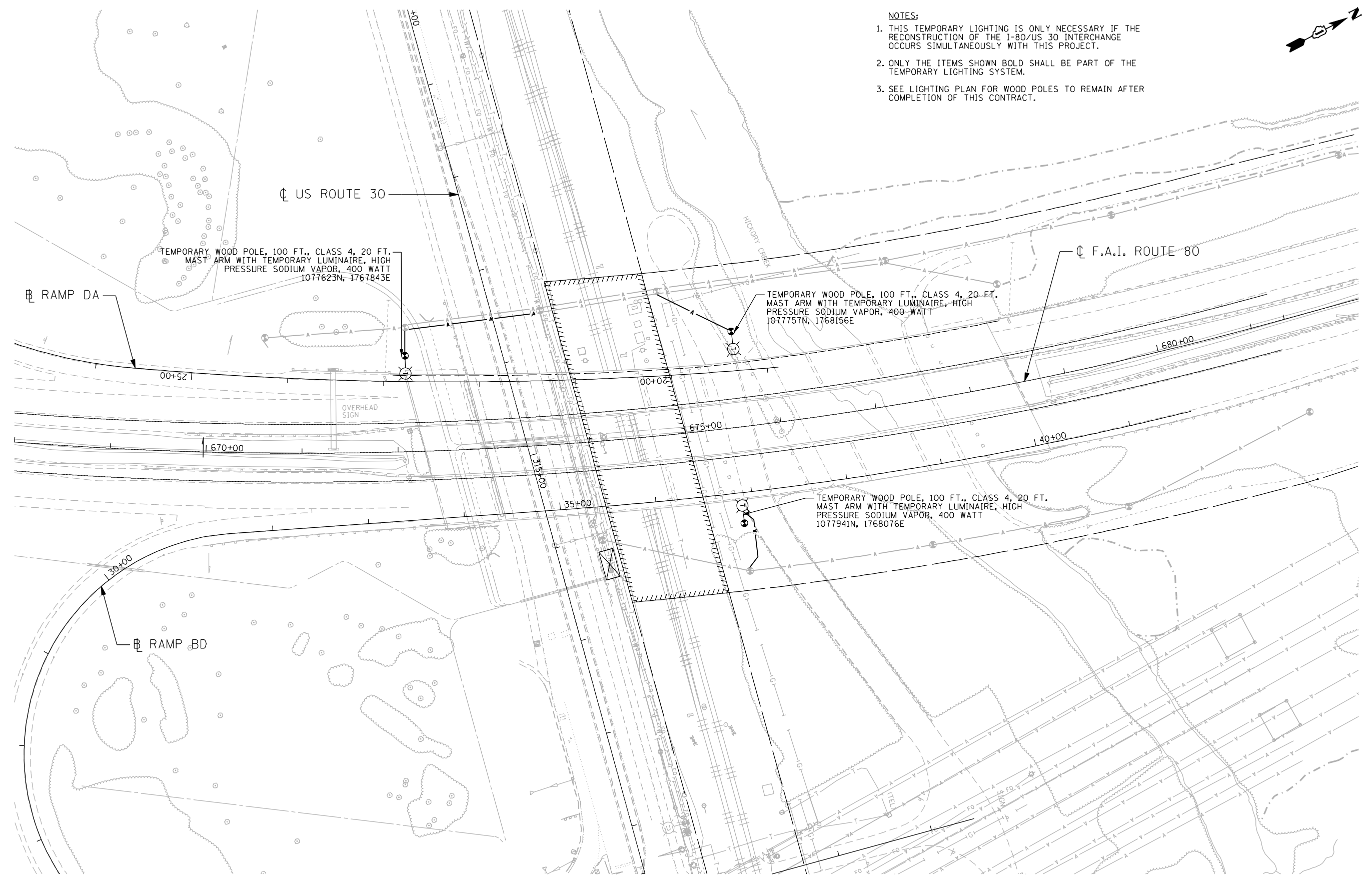
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 REMOVAL PLAN**

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	25
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. THIS TEMPORARY LIGHTING IS ONLY NECESSARY IF THE RECONSTRUCTION OF THE I-80/US 30 INTERCHANGE OCCURS SIMULTANEOUSLY WITH THIS PROJECT.
 2. ONLY THE ITEMS SHOWN BOLD SHALL BE PART OF THE TEMPORARY LIGHTING SYSTEM.
 3. SEE LIGHTING PLAN FOR WOOD POLES TO REMAIN AFTER COMPLETION OF THIS CONTRACT.



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ENGINEERING CONSULTANT

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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLDT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -
PLDT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

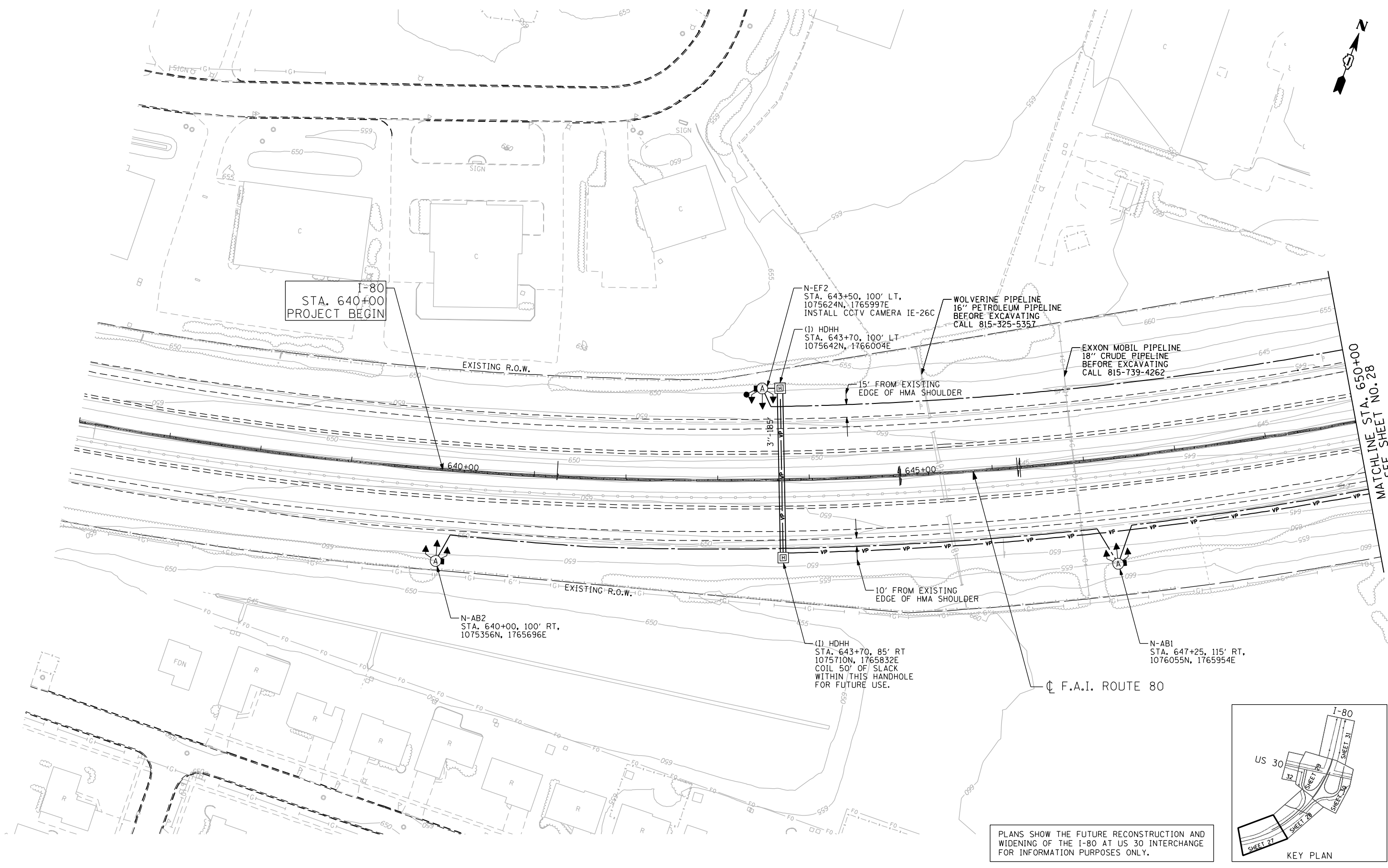
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 TEMPORARY LIGHTING PLAN**

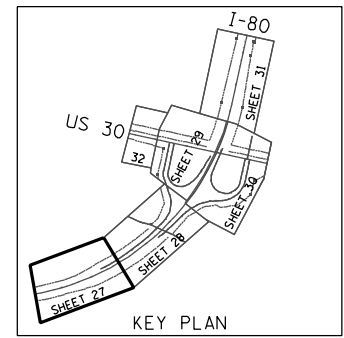
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F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

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MATCHLINE STA. 650+00
SEE SHEET NO. 28



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.

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 Email: clorba@clorba.com

USER NAME = jk.jellman	DESIGNED - RJR	REVISED -
PLDT SCALE = 100.0000 "/>		

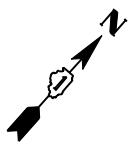
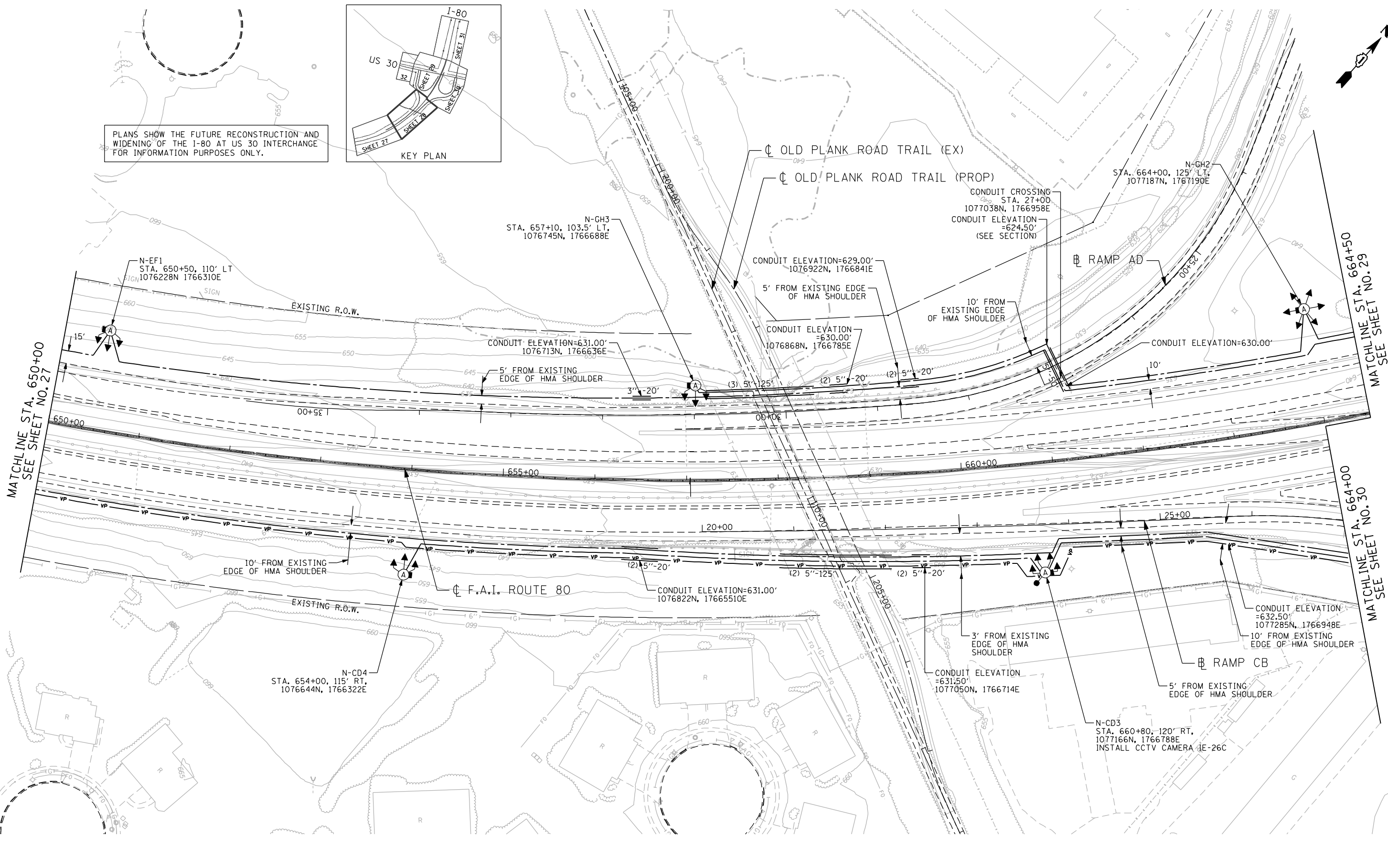
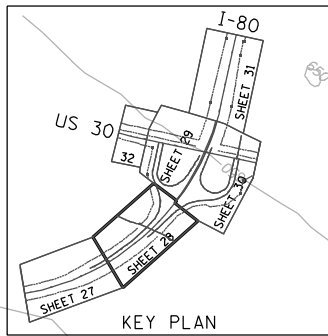
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30
LIGHTING AND I.T.S. PLAN**

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 27
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



MATCHLINE STA. 650+00
SEE SHEET NO. 27

MATCHLINE STA. 664+50
SEE SHEET NO. 29

MATCHLINE STA. 664+00
SEE SHEET NO. 30

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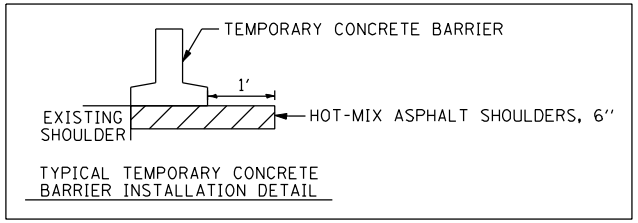
USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLDT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -
PLDT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

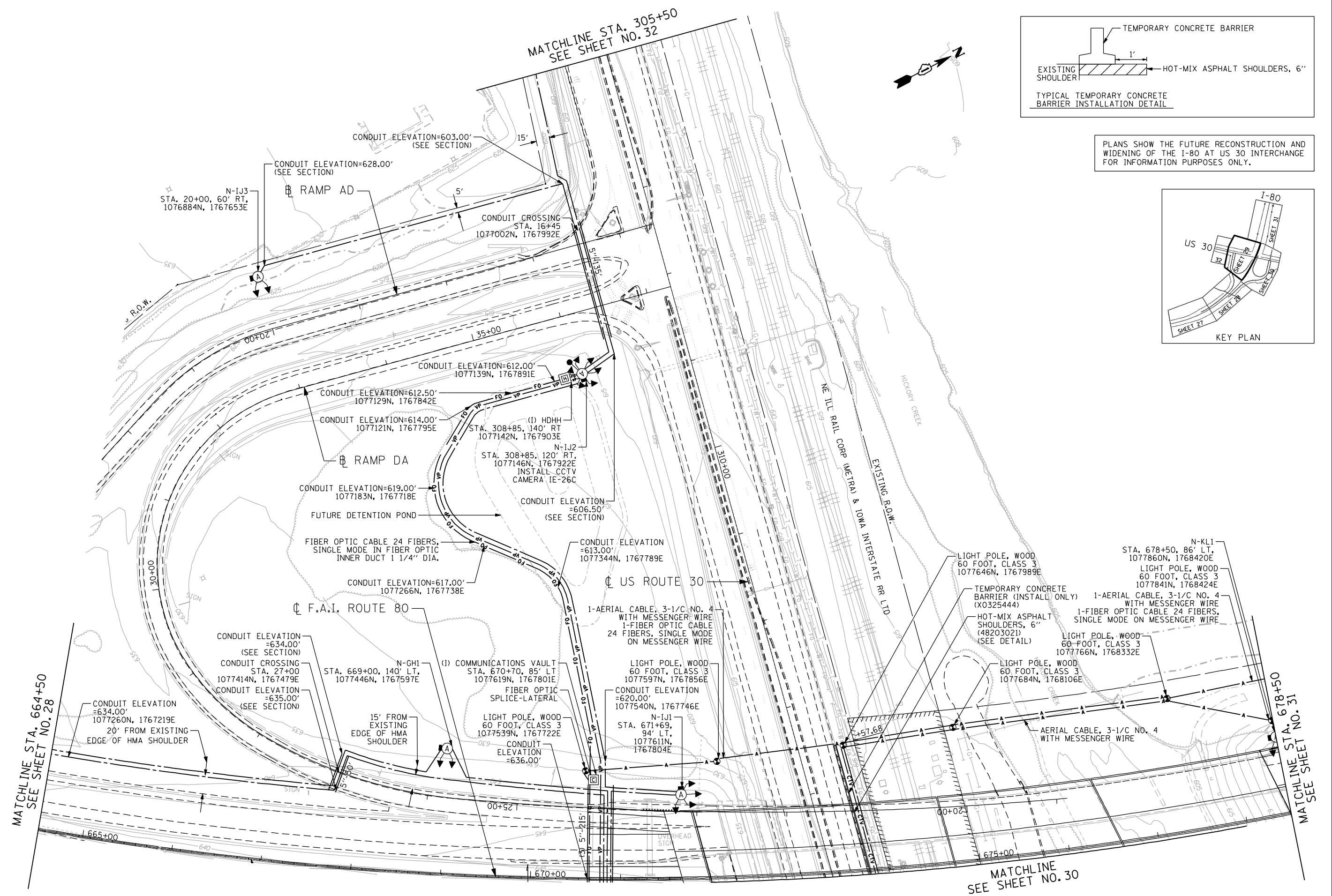
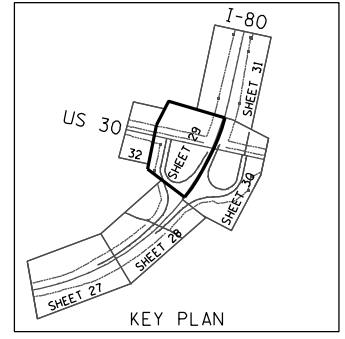
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHTING AND I.T.S. PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 28
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



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 Tel. 773.778.4008 Fax 773.778.4914
 Email: info@corbagroup.com

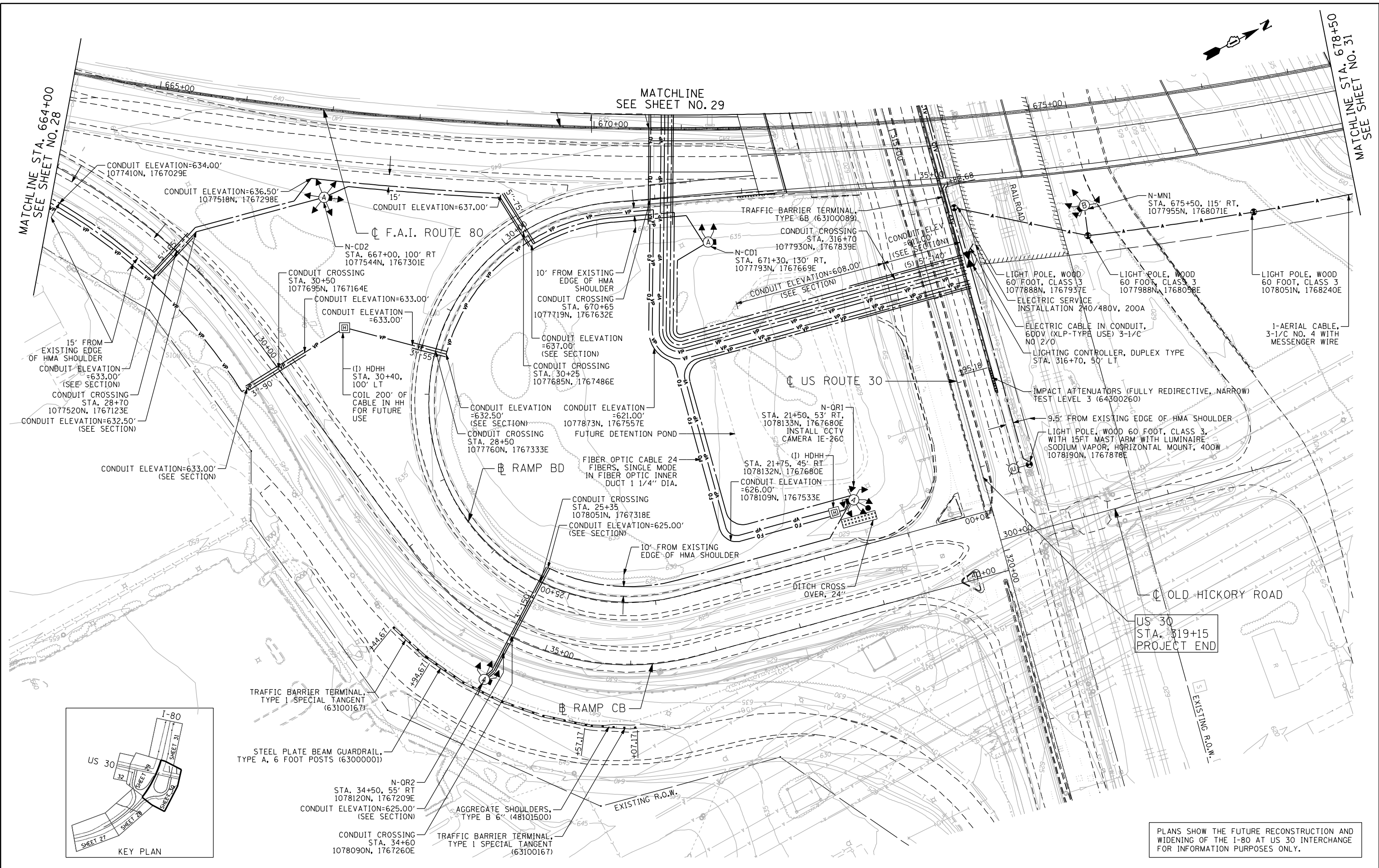
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PLDT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING AND I.T.S. PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	29
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.

ENGINEERING CONSULTANT
Corba Group, Inc.
 CONSULTING ENGINEERS
 8607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60638
 Tel. 773.778.4008 Fax 773.778.4914
 Email: cgroup@corba.com

USER NAME = jvandra
 PLOT SCALE = 100.0000' / IN.
 PLOT DATE = 2/13/2012

DESIGNED - RJR
 DRAWN - RJR
 CHECKED - JMV
 DATE - 02-14-2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

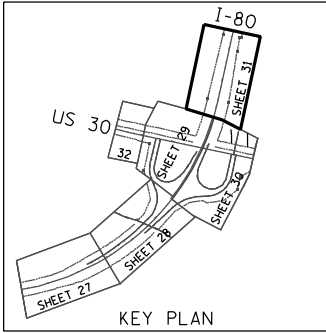
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING AND I.T.S. PLAN
 SCALE: 1" = 50'
 SHEET NO. OF SHEETS STA. TO STA.

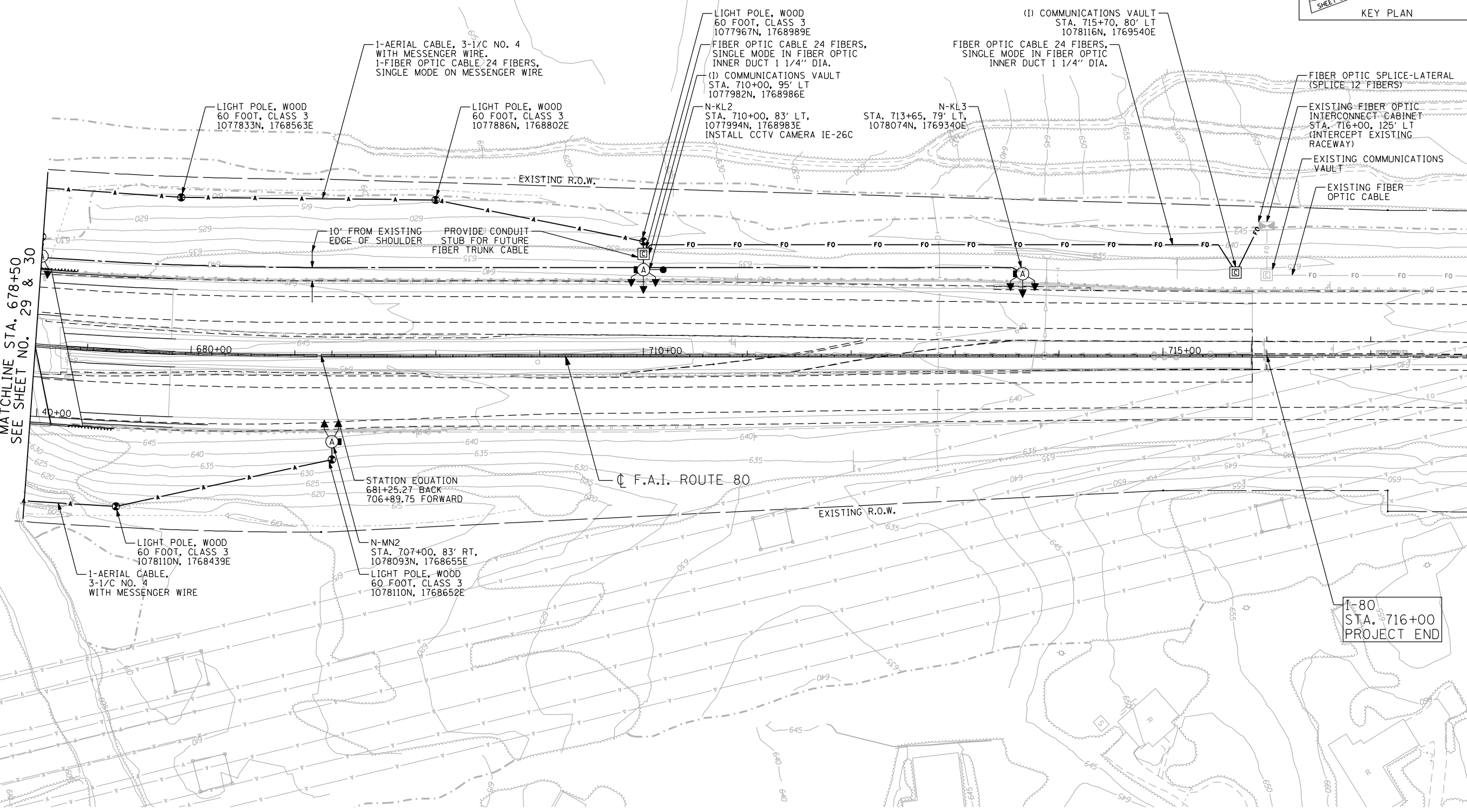
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	30
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

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PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



MATCHLINE STA. 678+50
SEE SHEET NO. 29 & 30



1-AERIAL CABLE, 3-1/4 NO. 4 WITH MESSENGER WIRE, 1-FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE ON MESSENGER WIRE

LIGHT POLE, WOOD 60 FOOT, CLASS 3 1077833N, 1768563E

LIGHT POLE, WOOD 60 FOOT, CLASS 3 1077886N, 1768802E

LIGHT POLE, WOOD 60 FOOT, CLASS 3 1077967N, 1768989E

FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE IN FIBER OPTIC INNER DUCT 1 1/4" DIA.

(I) COMMUNICATIONS VAULT STA. 710+00, 95' LT 1077982N, 1768986E

N-KL2 STA. 710+00, 83' LT, 1077994N, 1768983E INSTALL CCTV CAMERA IE-26C

(I) COMMUNICATIONS VAULT STA. 715+70, 80' LT 1078116N, 1769540E

FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE IN FIBER OPTIC INNER DUCT 1 1/4" DIA.

FIBER OPTIC SPLICE-LATERAL (SPLICE 12 FIBERS)

EXISTING FIBER OPTIC INTERCONNECT CABINET STA. 716+00, 125' LT (INTERCEPT EXISTING RACEWAY)

EXISTING COMMUNICATIONS VAULT

EXISTING FIBER OPTIC CABLE

LIGHT POLE, WOOD 60 FOOT, CLASS 3 1078110N, 1768439E

1-AERIAL CABLE, 3-1/4 NO. 4 WITH MESSENGER WIRE

STATION EQUATION 681+25.27 BACK 706+89.75 FORWARD

N-MN2 STA. 707+00, 83' RT, 1078093N, 1768655E

LIGHT POLE, WOOD 60 FOOT, CLASS 3 1078110N, 1768652E

CL F.A.I. ROUTE 80

I-80 STA. 716+00 PROJECT END



ENGINEERING CONSULTANT	USER NAME = jk.jeilman	DESIGNED - RJR	REVISED -
		DRAWN - RJR	REVISED -
	PLDT SCALE = 100.0000' / IN.	CHECKED - JMV	REVISED -
	PLDT DATE = 3/22/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

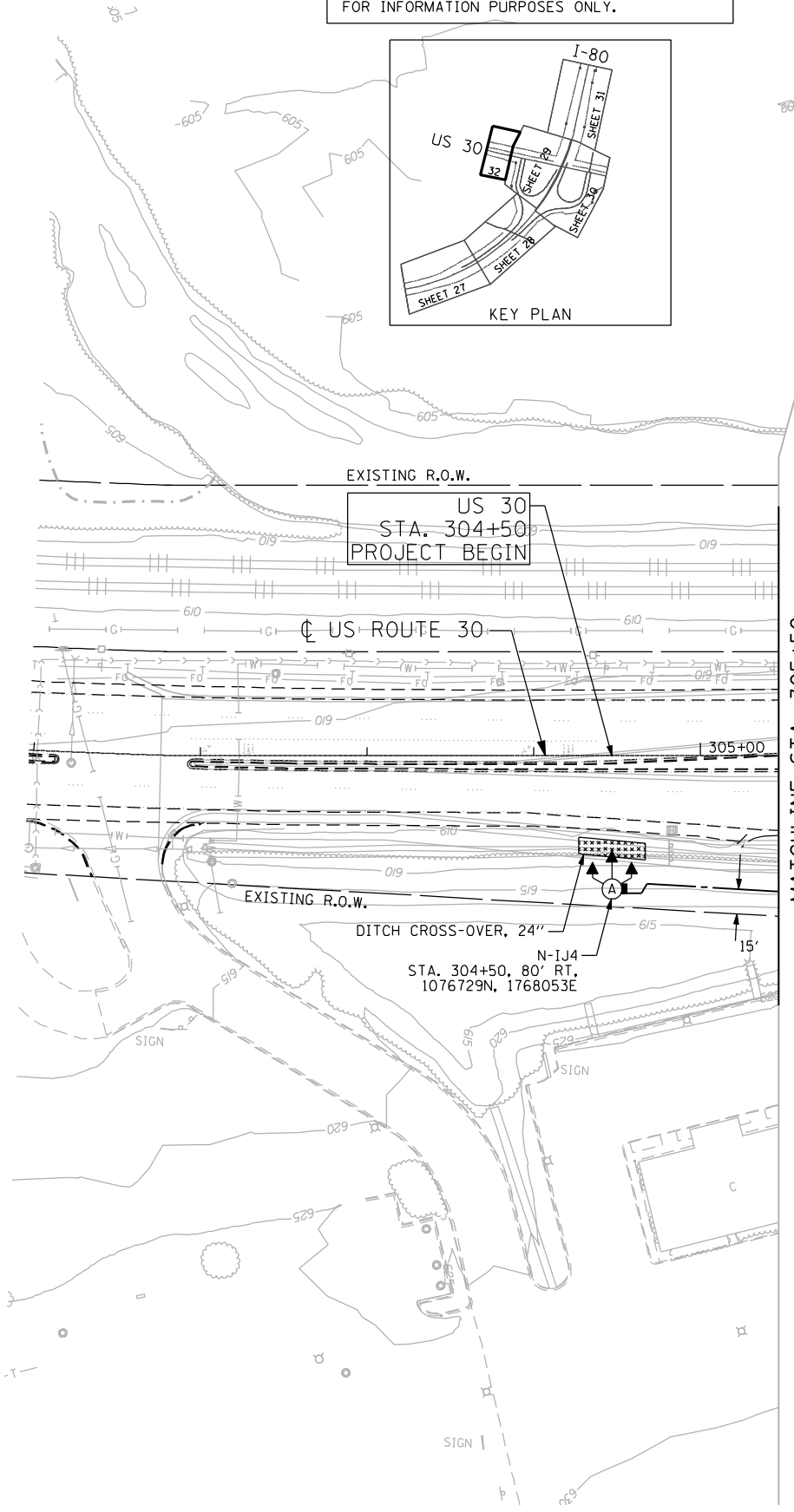
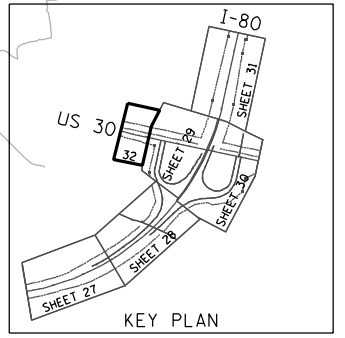
F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING AND I.T.S. PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	31
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				

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PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



MATCHLINE STA. 305+50 SEE SHEET NO. 29

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ENGINEERING CONSULTANT

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 Email: ciorba@ciorba.com

USER NAME = jvandra
 PLOT SCALE = 100.0000' / IN.
 PLOT DATE = 2/13/2012

DESIGNED - RJR
 DRAWN - RJR
 CHECKED - JMV
 DATE - 02-14-2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

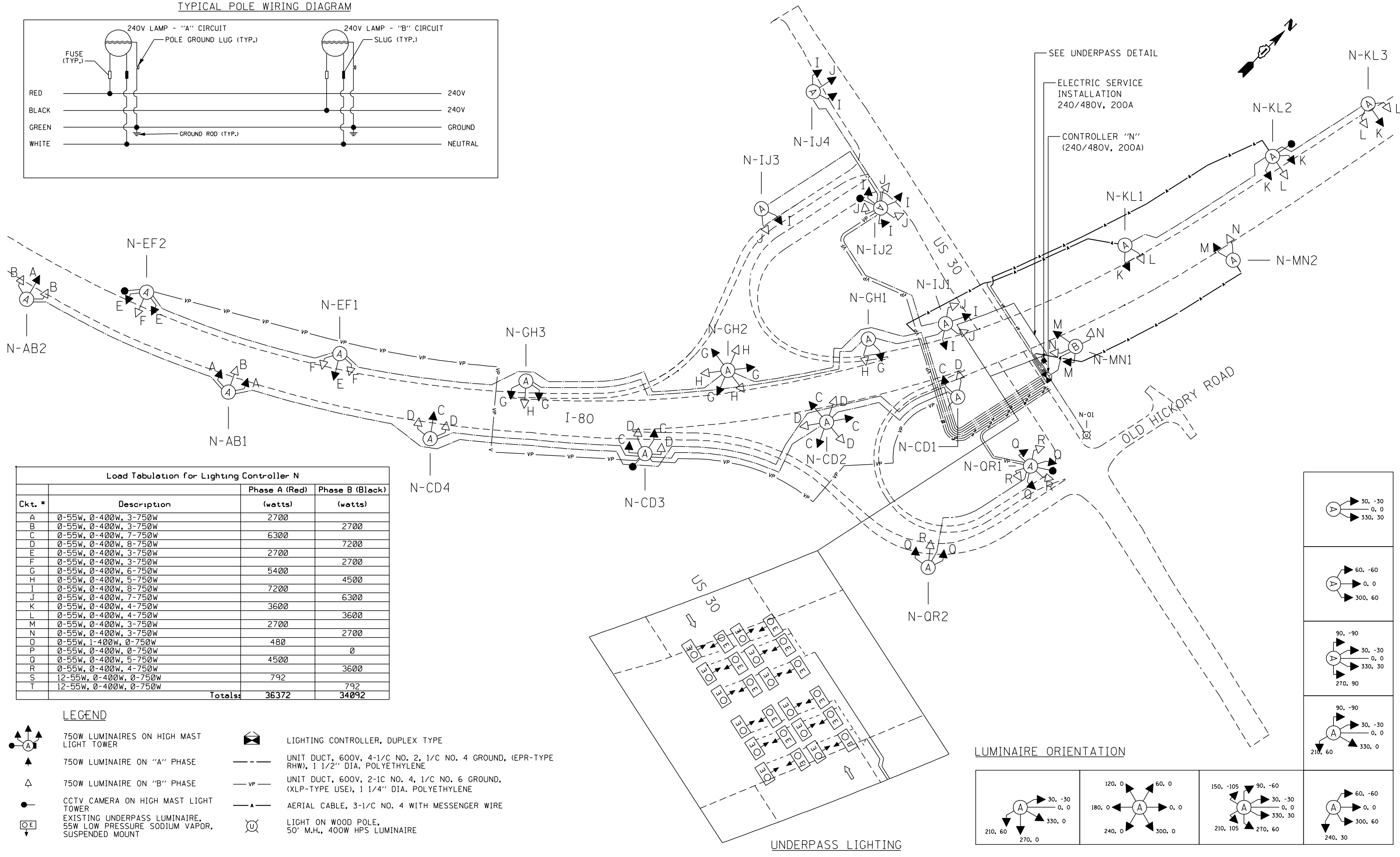
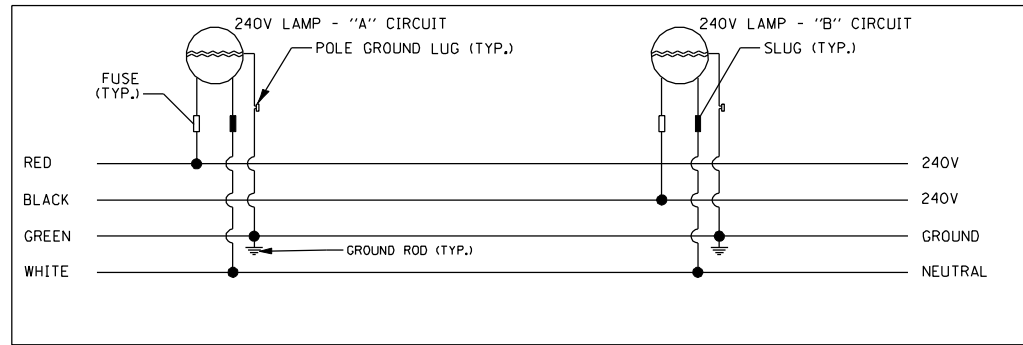
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 LIGHTING AND I.T.S. PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	32
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

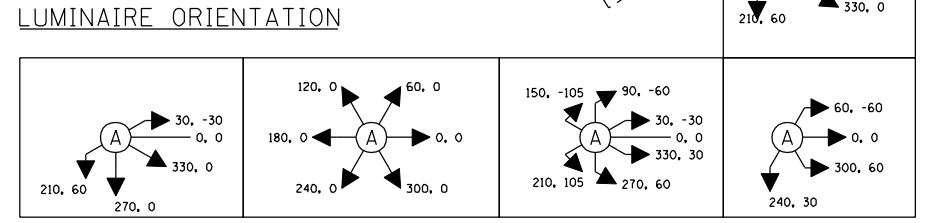
TYPICAL POLE WIRING DIAGRAM



Load Tabulation for Lighting Controller N

Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	0-55W, 0-400W, 3-750W	2700	
B	0-55W, 0-400W, 3-750W		2700
C	0-55W, 0-400W, 7-750W	6300	
D	0-55W, 0-400W, 8-750W		7200
E	0-55W, 0-400W, 3-750W	2700	
F	0-55W, 0-400W, 3-750W		2700
G	0-55W, 0-400W, 6-750W	5400	
H	0-55W, 0-400W, 5-750W		4500
I	0-55W, 0-400W, 8-750W	7200	
J	0-55W, 0-400W, 7-750W		6300
K	0-55W, 0-400W, 4-750W	3600	
L	0-55W, 0-400W, 4-750W		3600
M	0-55W, 0-400W, 3-750W	2700	
N	0-55W, 0-400W, 3-750W		2700
O	0-55W, 1-400W, 0-750W	480	
P	0-55W, 0-400W, 0-750W		0
Q	0-55W, 0-400W, 5-750W	4500	
R	0-55W, 0-400W, 4-750W		3600
S	12-55W, 0-400W, 0-750W	792	
T	12-55W, 0-400W, 0-750W		792
Totals:		36372	34092

- LEGEND**
- 750W LUMINAIRES ON HIGH MAST LIGHT TOWER
 - 750W LUMINAIRE ON "A" PHASE
 - 750W LUMINAIRE ON "B" PHASE
 - CCTV CAMERA ON HIGH MAST LIGHT TOWER
 - EXISTING UNDERPASS LUMINAIRE, 55W LOW PRESSURE SODIUM VAPOR, SUSPENDED MOUNT
 - LIGHTING CONTROLLER, DUPLEX TYPE
 - UNIT DUCT, 600V, 4-1/2" NO. 2, 1/2" NO. 4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA. POLYETHYLENE
 - UNIT DUCT, 600V, 2-1/2" NO. 4, 1/2" NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
 - AERIAL CABLE, 3-1/2" NO. 4 WITH MESSENGER WIRE
 - LIGHT ON WOOD POLE, 50' M.H., 400W HPS LUMINAIRE



LIGHT TOWER N-AB2
STA. 640+00, 100' RT

EASTBOUND →

EDGE OF BITUMINOUS PAVEMENT

EDGE OF BITUMINOUS SHOULDER

650

1:2.5

LIGHT TOWER, SERVICE PAD (TYPE A) (TYP)

EXIST R.O.W.

LIGHT TOWER FOUNDATION (TYP)

650

LIGHT TOWER N-EF2
STA. 643+50, 100' LT

EXIST R.O.W.

1:2

EDGE OF BITUMINOUS SHOULDER

EDGE OF BITUMINOUS PAVEMENT

← WESTBOUND

LIGHT TOWER N-AB1
STA. 647+25, 115' RT

EDGE OF BITUMINOUS SHOULDER

EXON MOBILE PIPELINE
18" CRUDE PIPELINE
BEFORE EXCAVATING CALL 815-739-4262

1:6.6

1:3

EXIST R.O.W.

650

655

LIGHT TOWER N-EF1
STA. 650+50, 110' LT

EXIST R.O.W.

1:2.5

655

EDGE OF BITUMINOUS SHOULDER

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8007 North Cumberland Avenue, Suite 402
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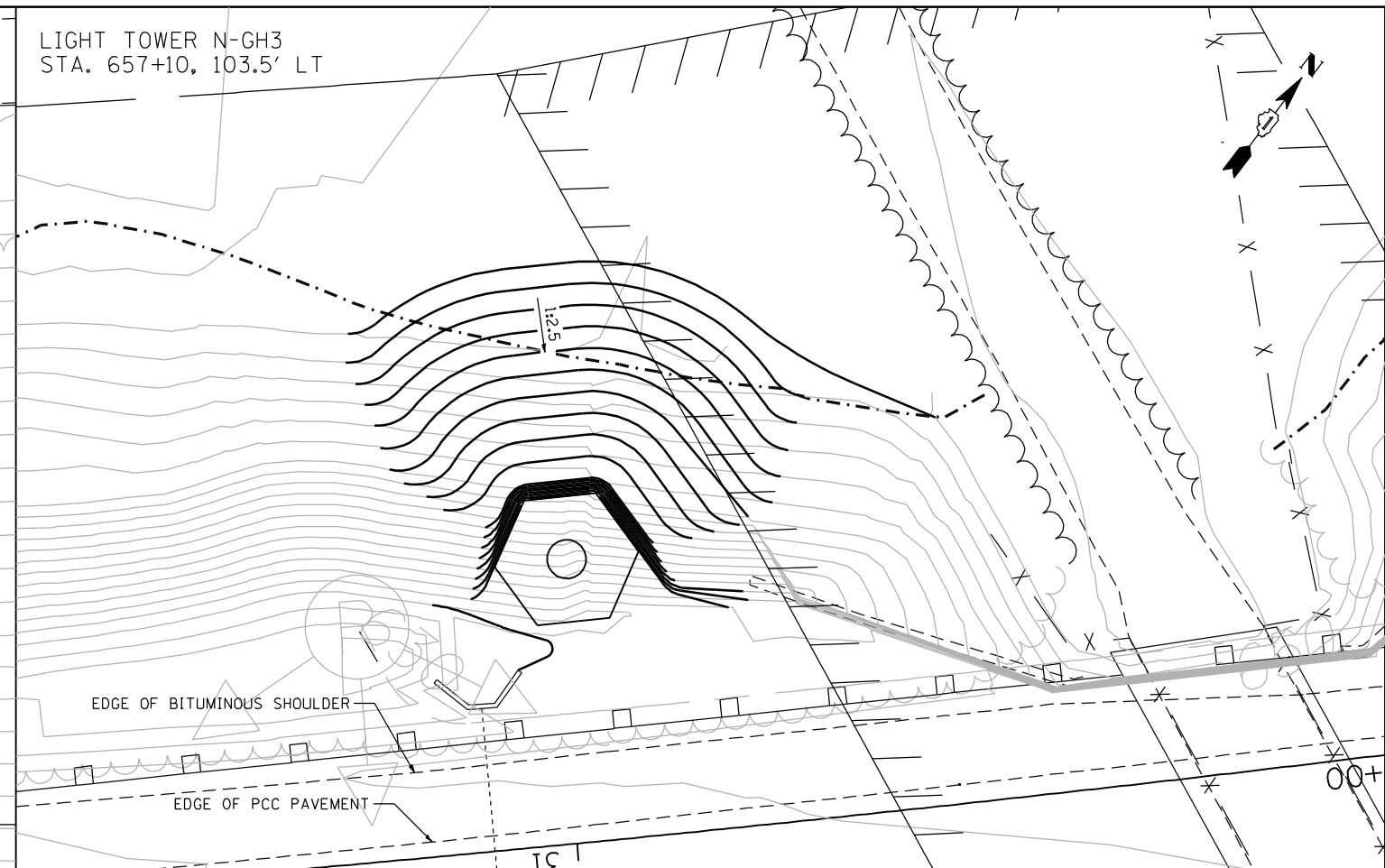
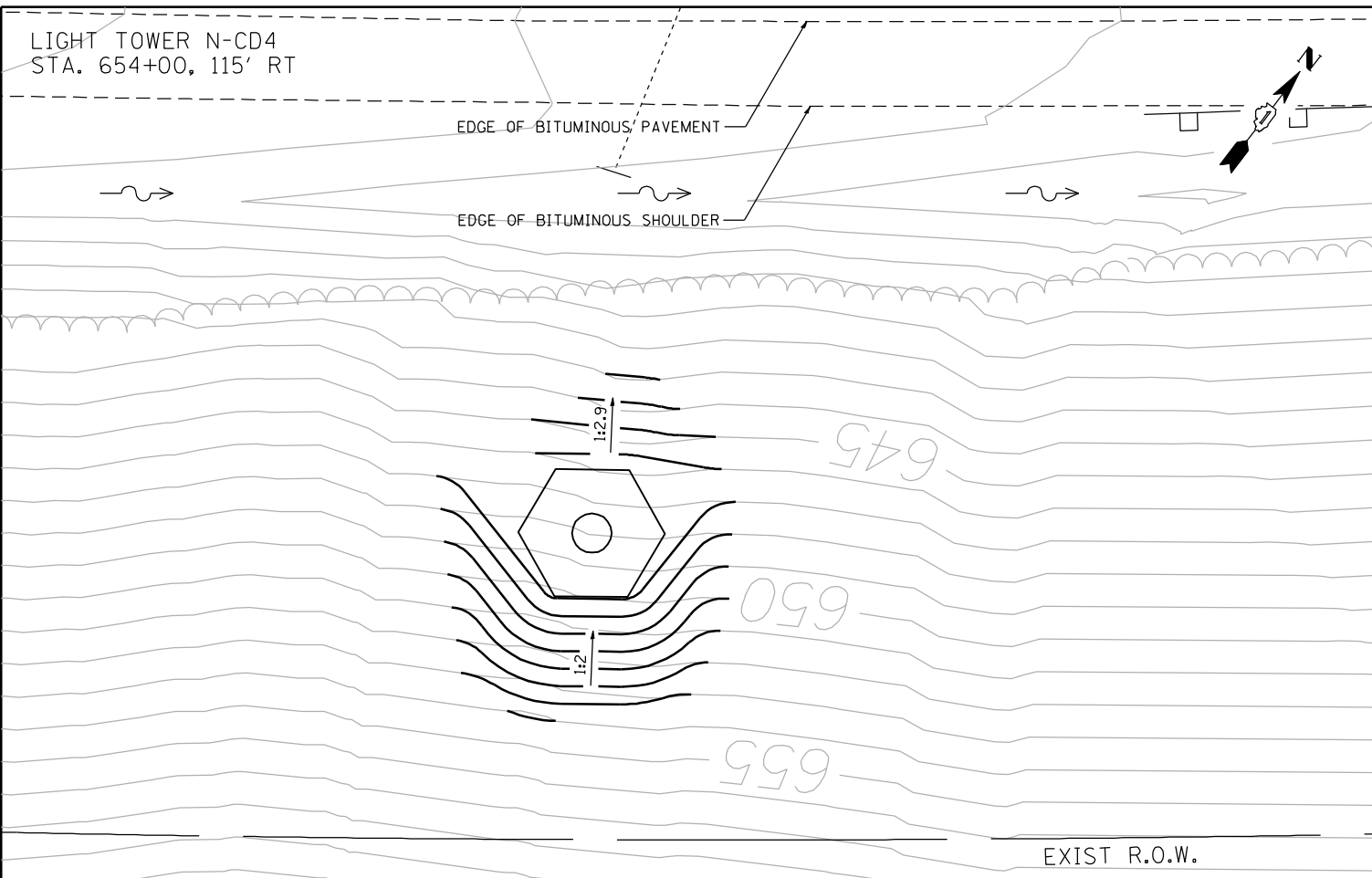
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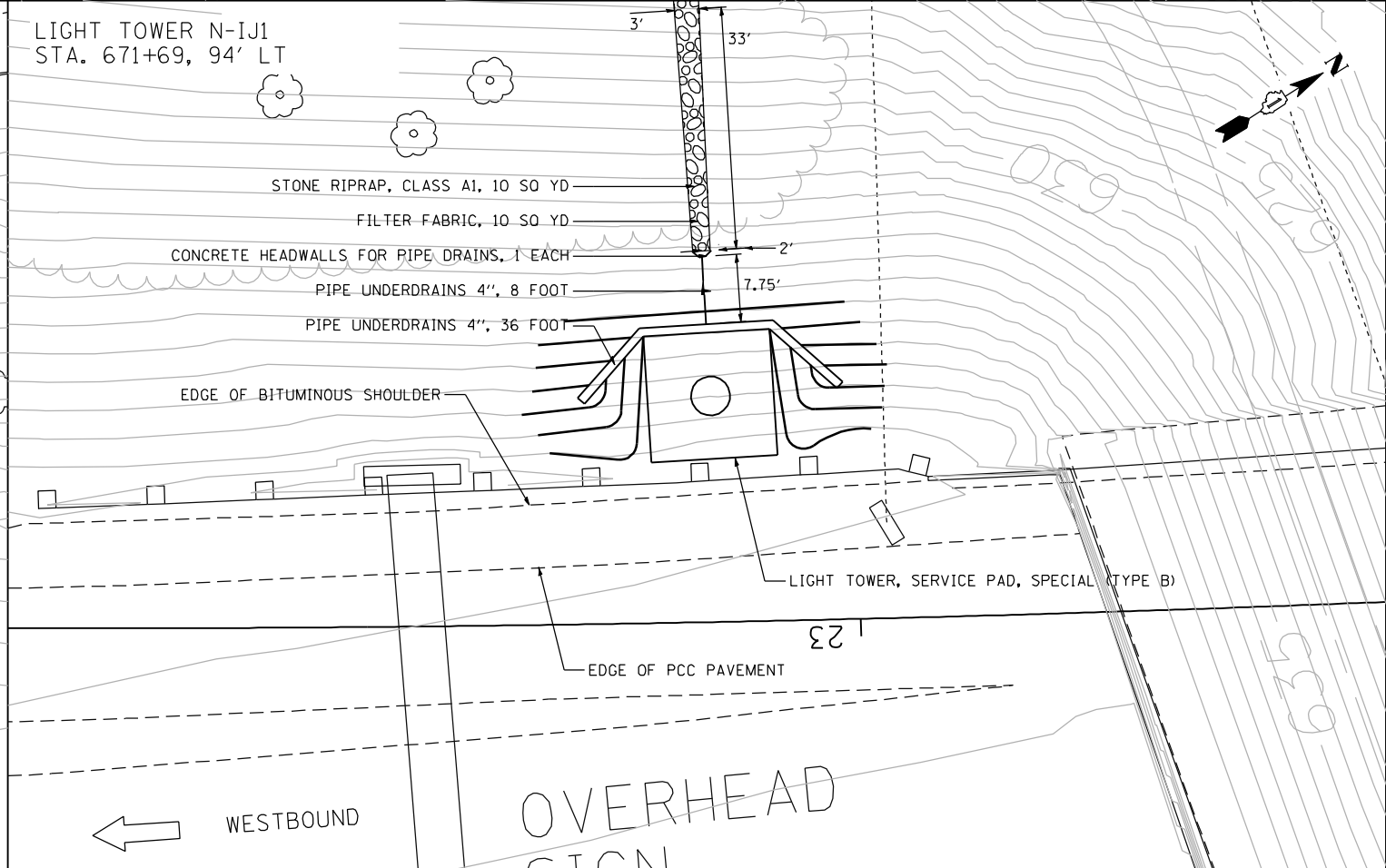
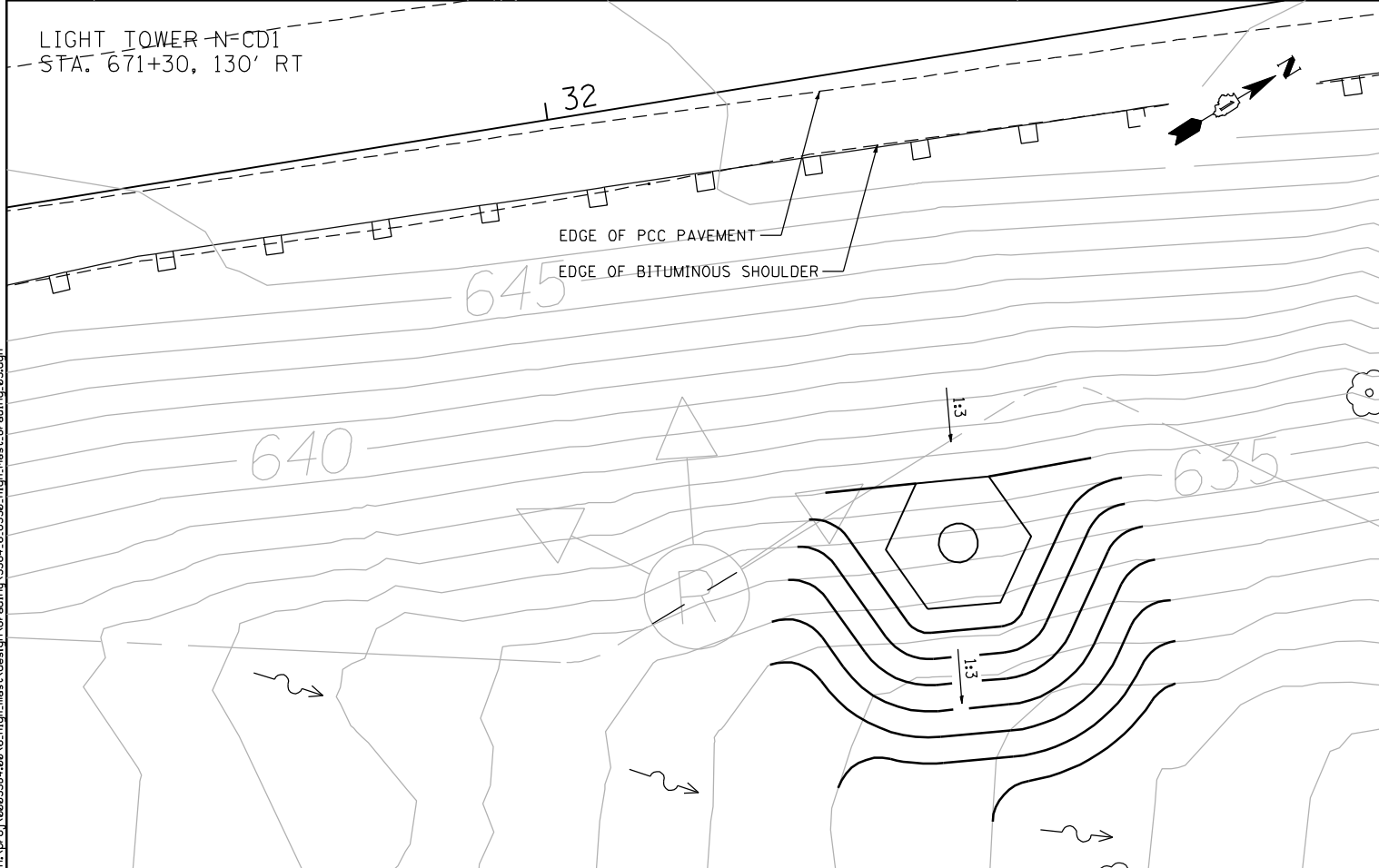
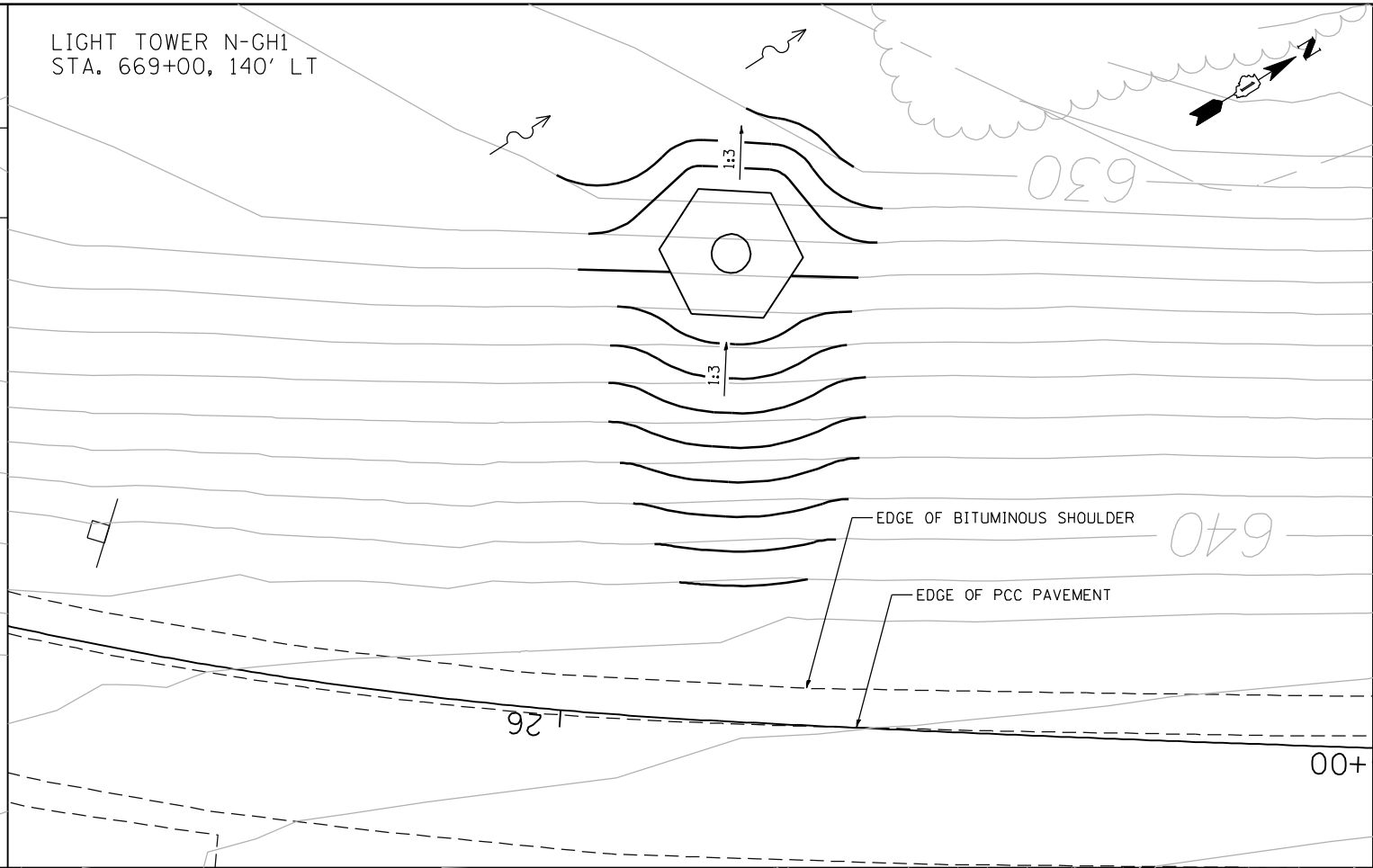
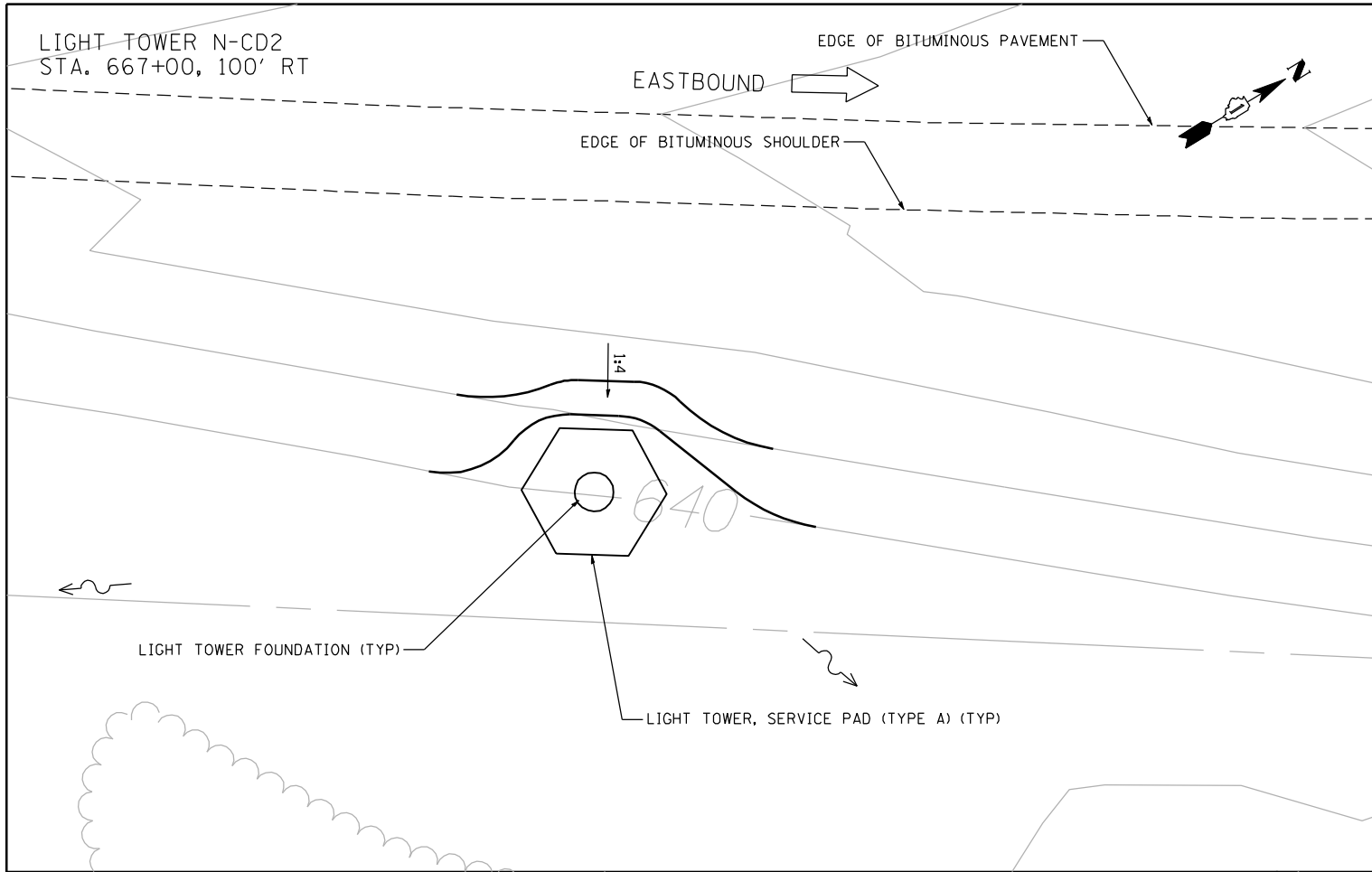
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
GRADING DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	34
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				





ENGINEERING CONSULTANT
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4007 North Cumberland Avenue, Suite 402
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Tel. 773.778.4008 Fax 773.778.4914
Email: ciorba@ciorba.com

USER NAME = jvandra	DESIGNED - NT	REVISED -
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PLLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

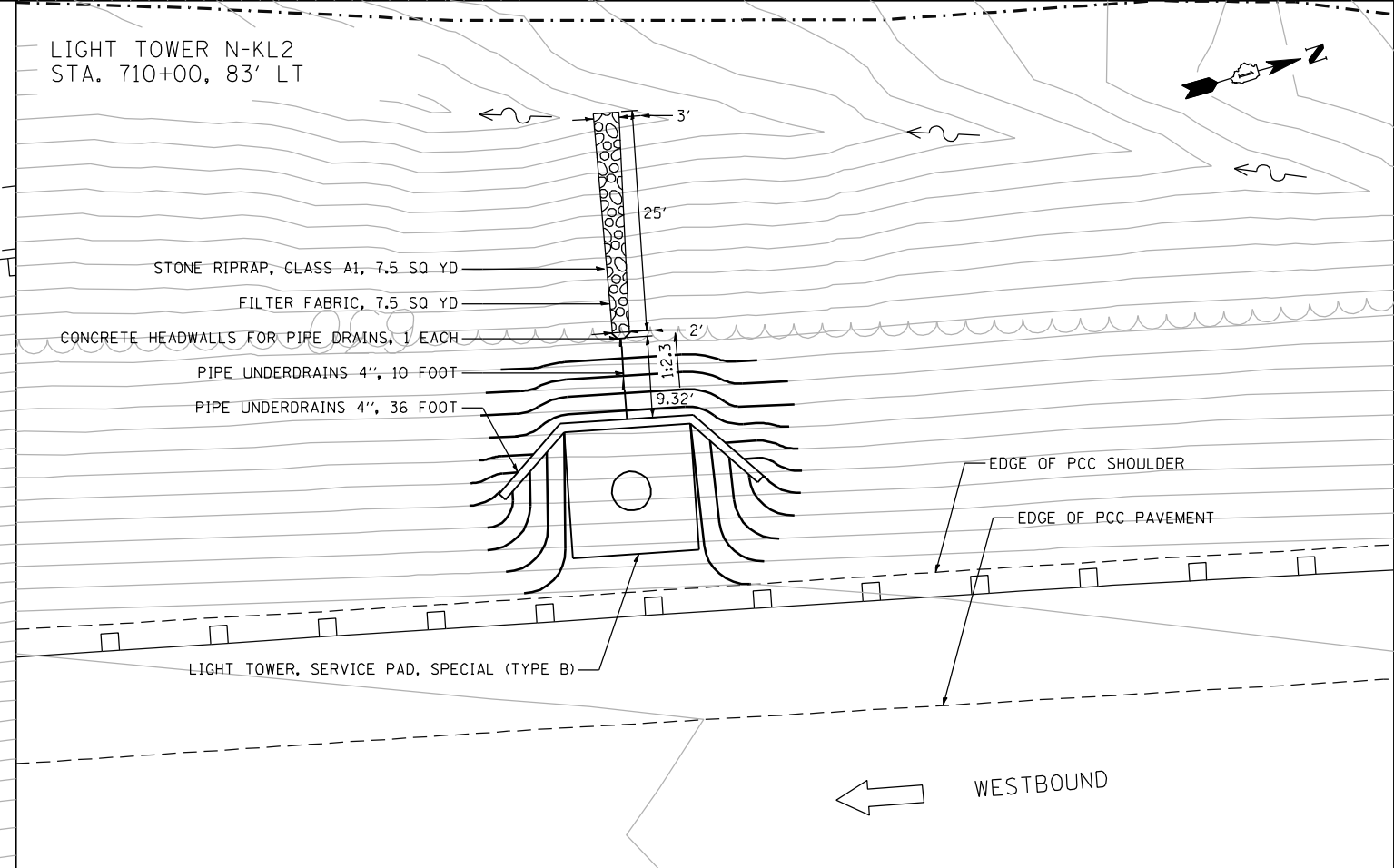
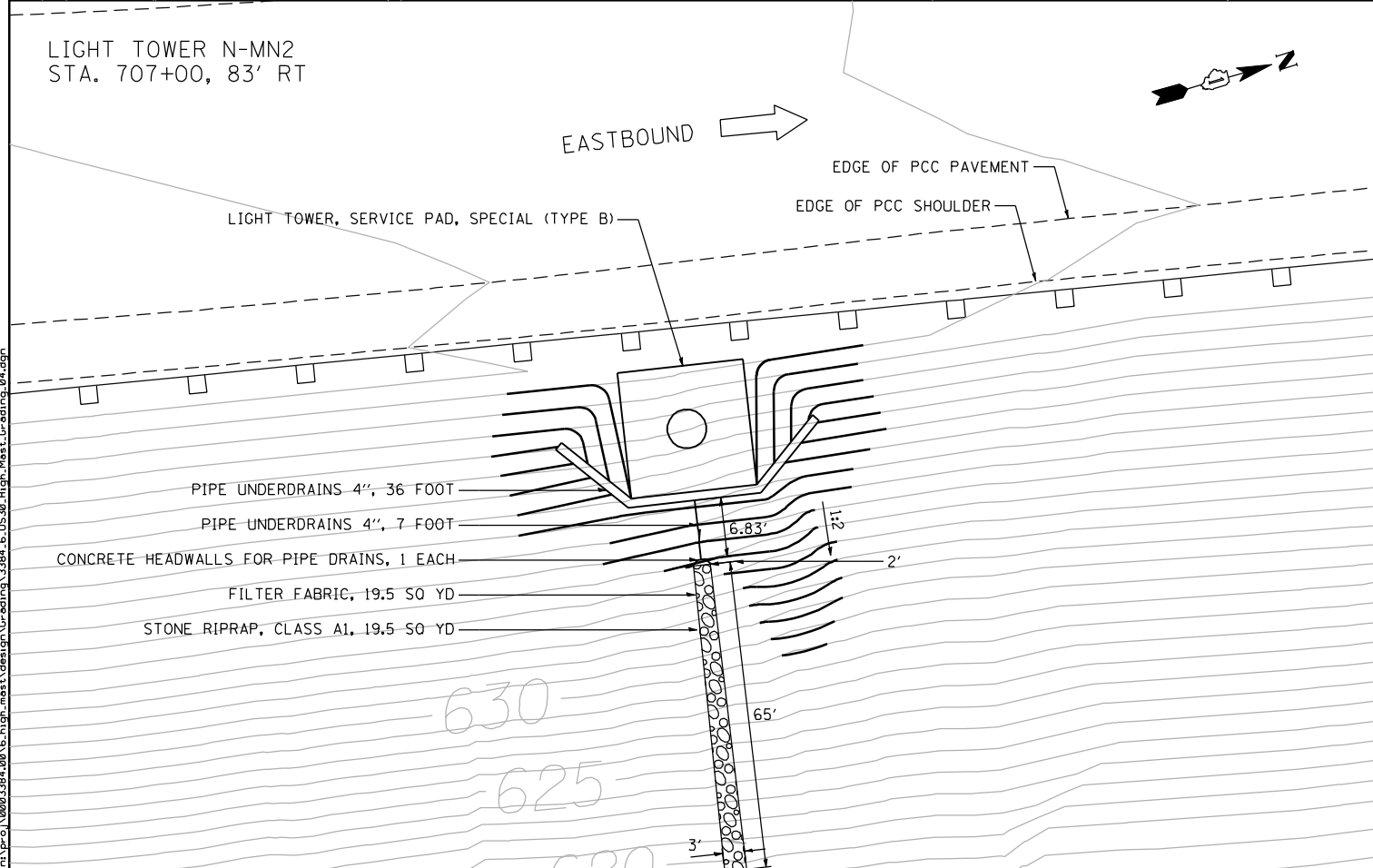
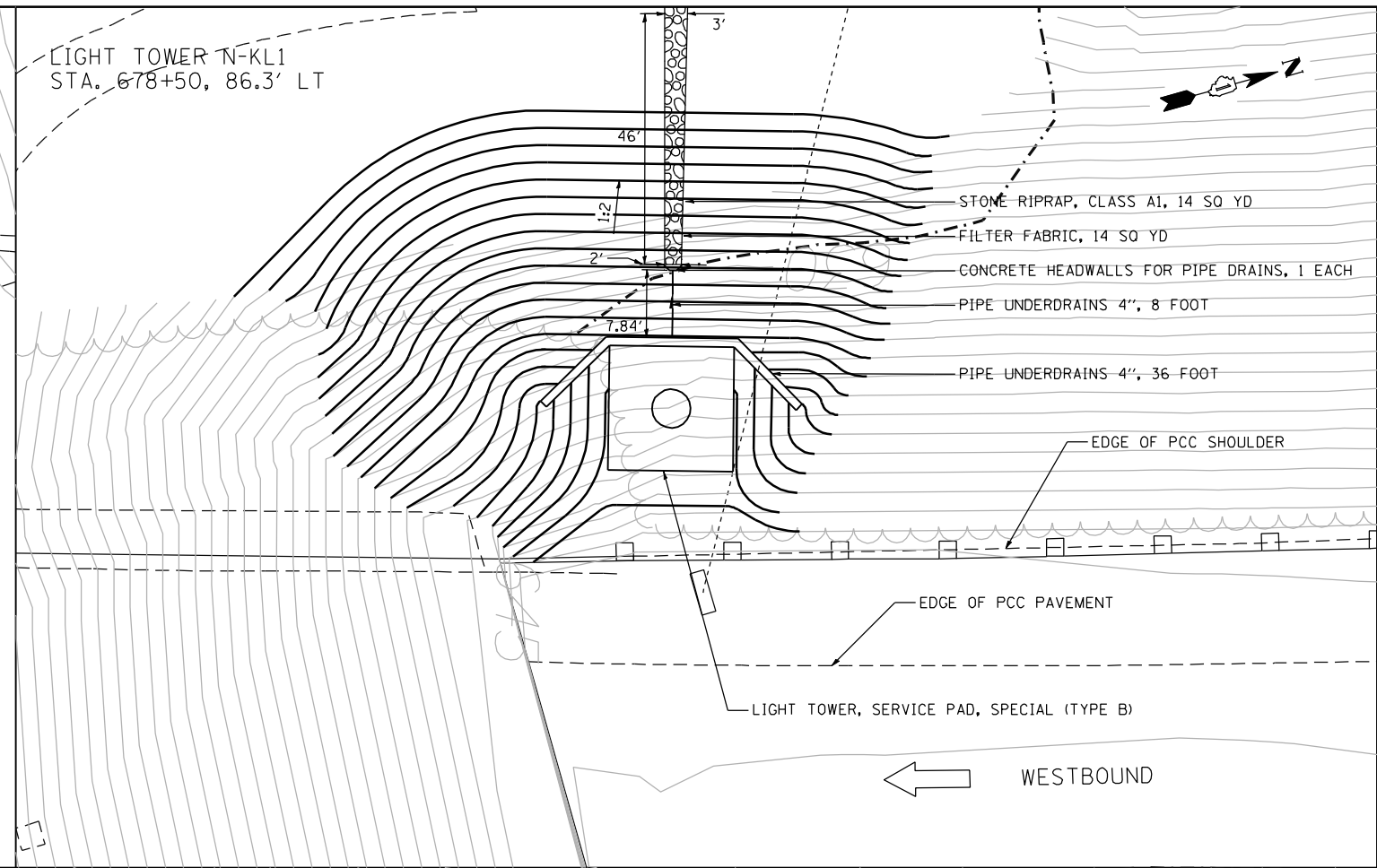
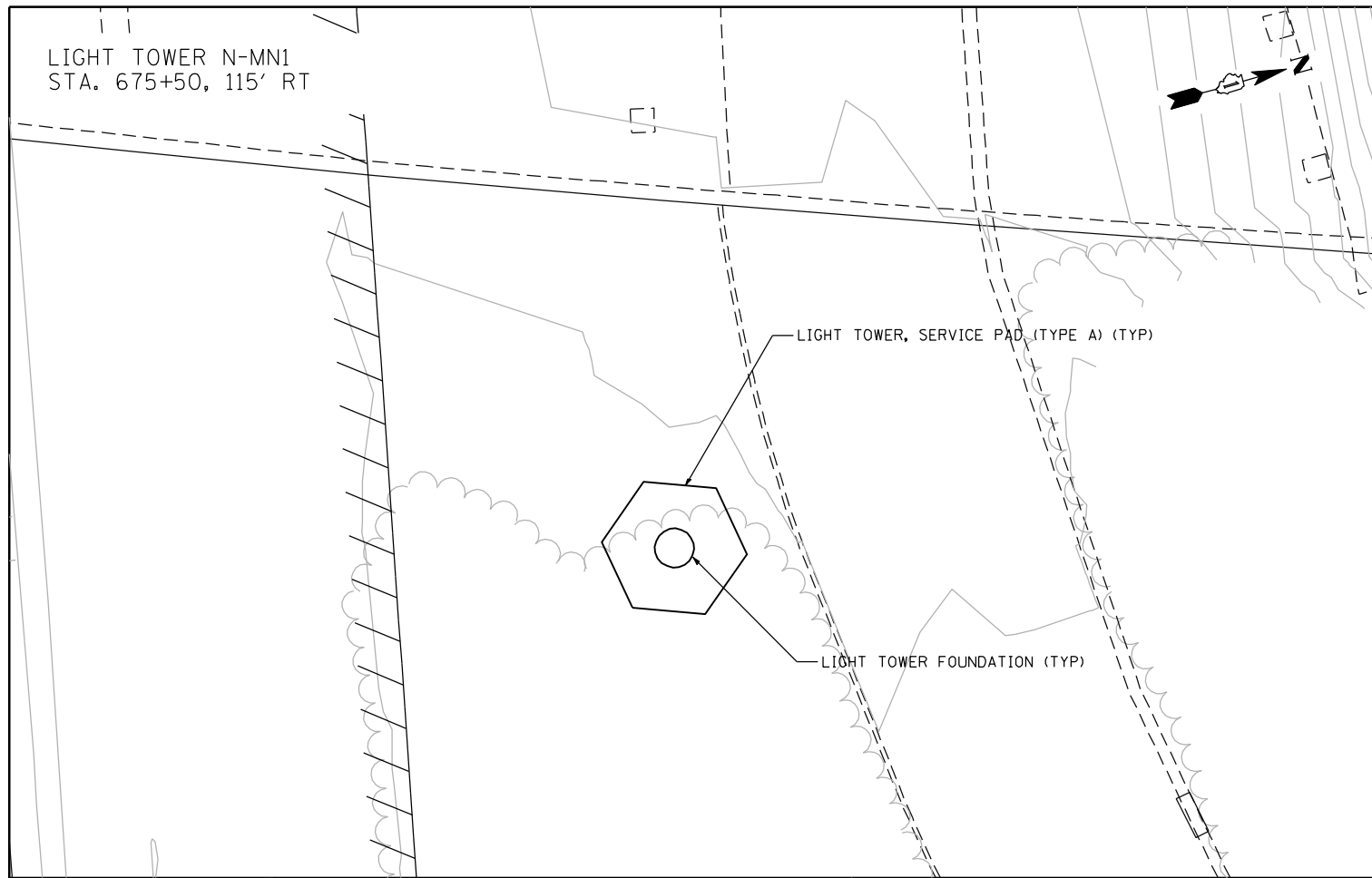
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
GRADING DETAILS**

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

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 36
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
2607 North Cumberland Avenue, Suite 402
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Email: cgroup@clorba.com

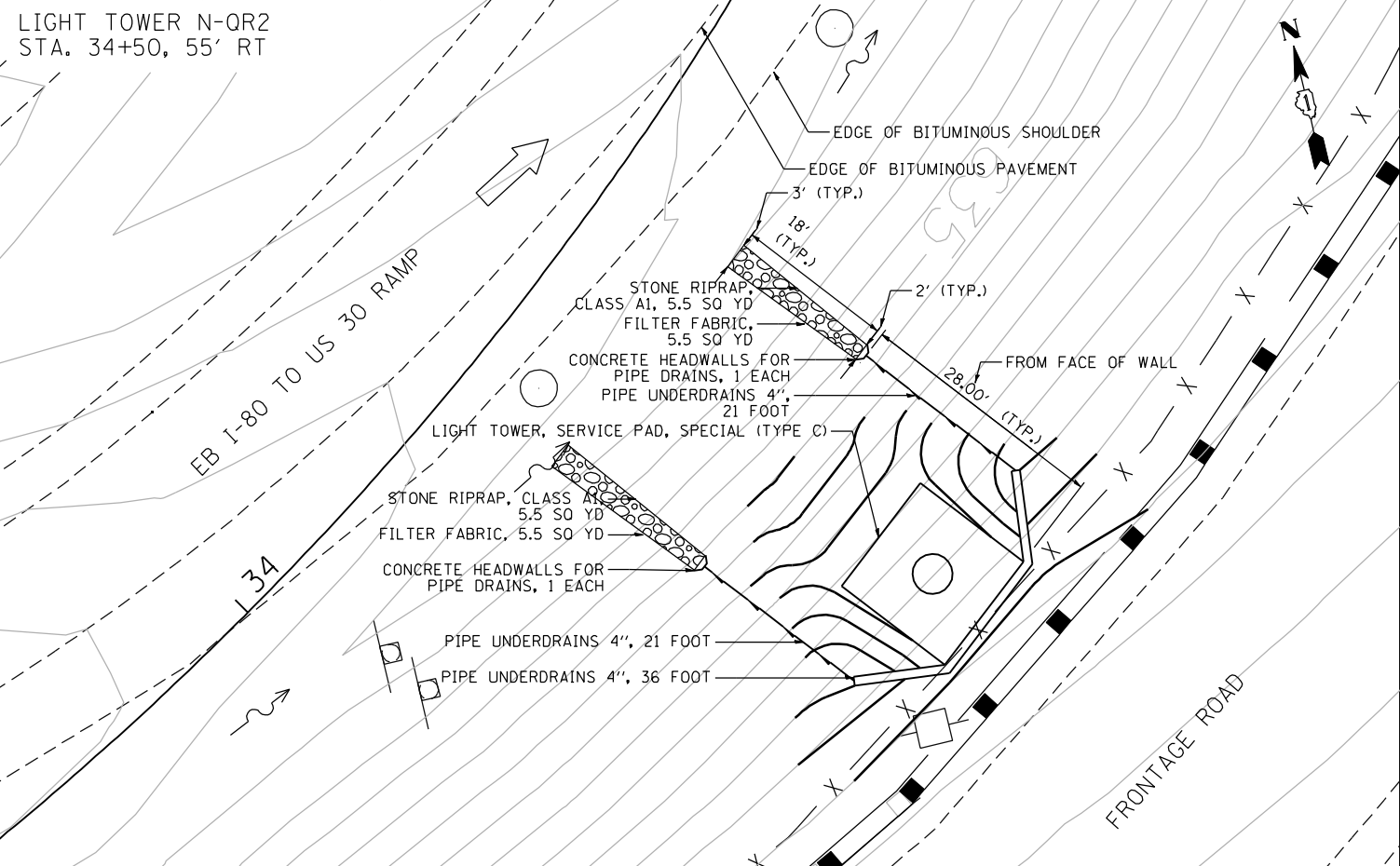
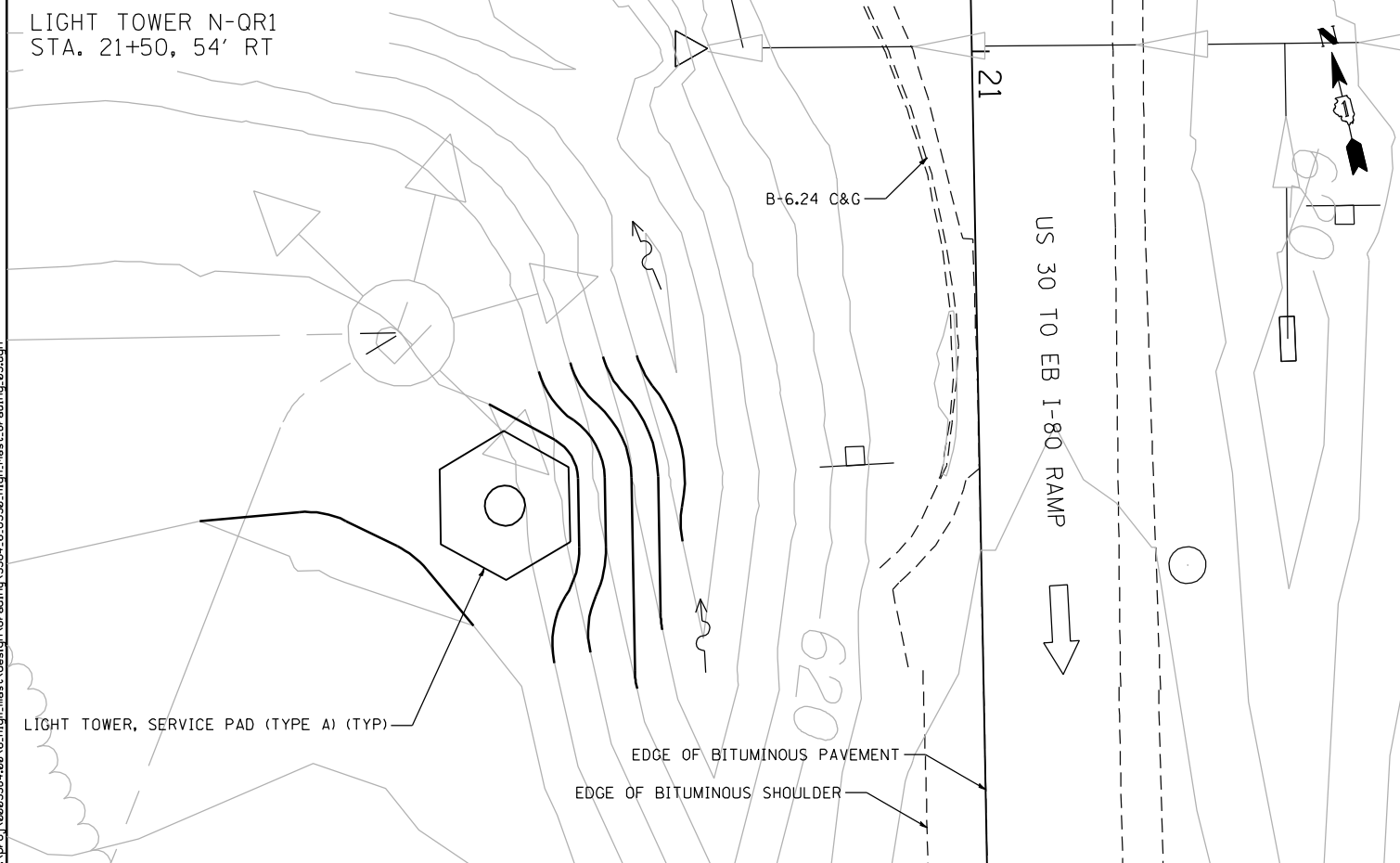
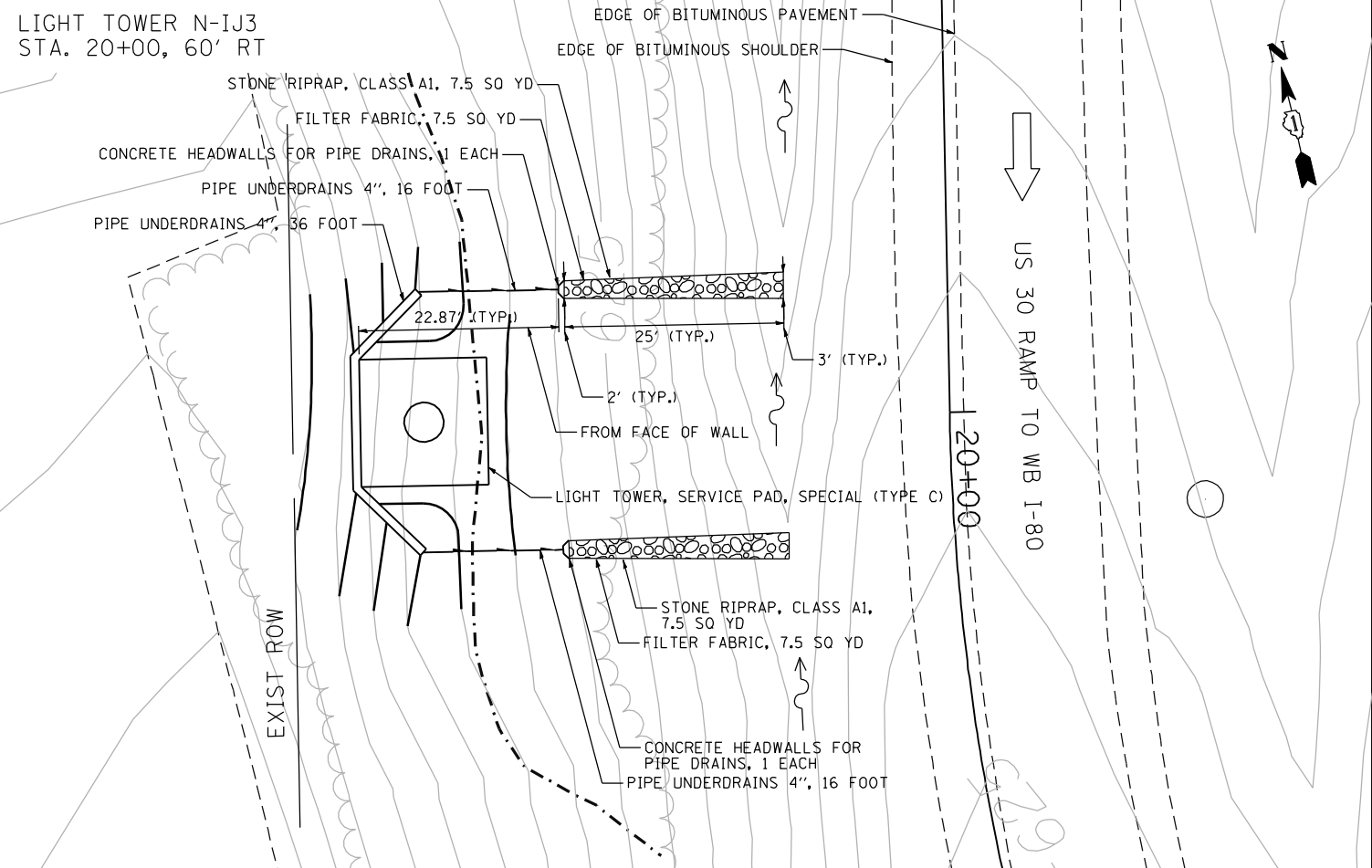
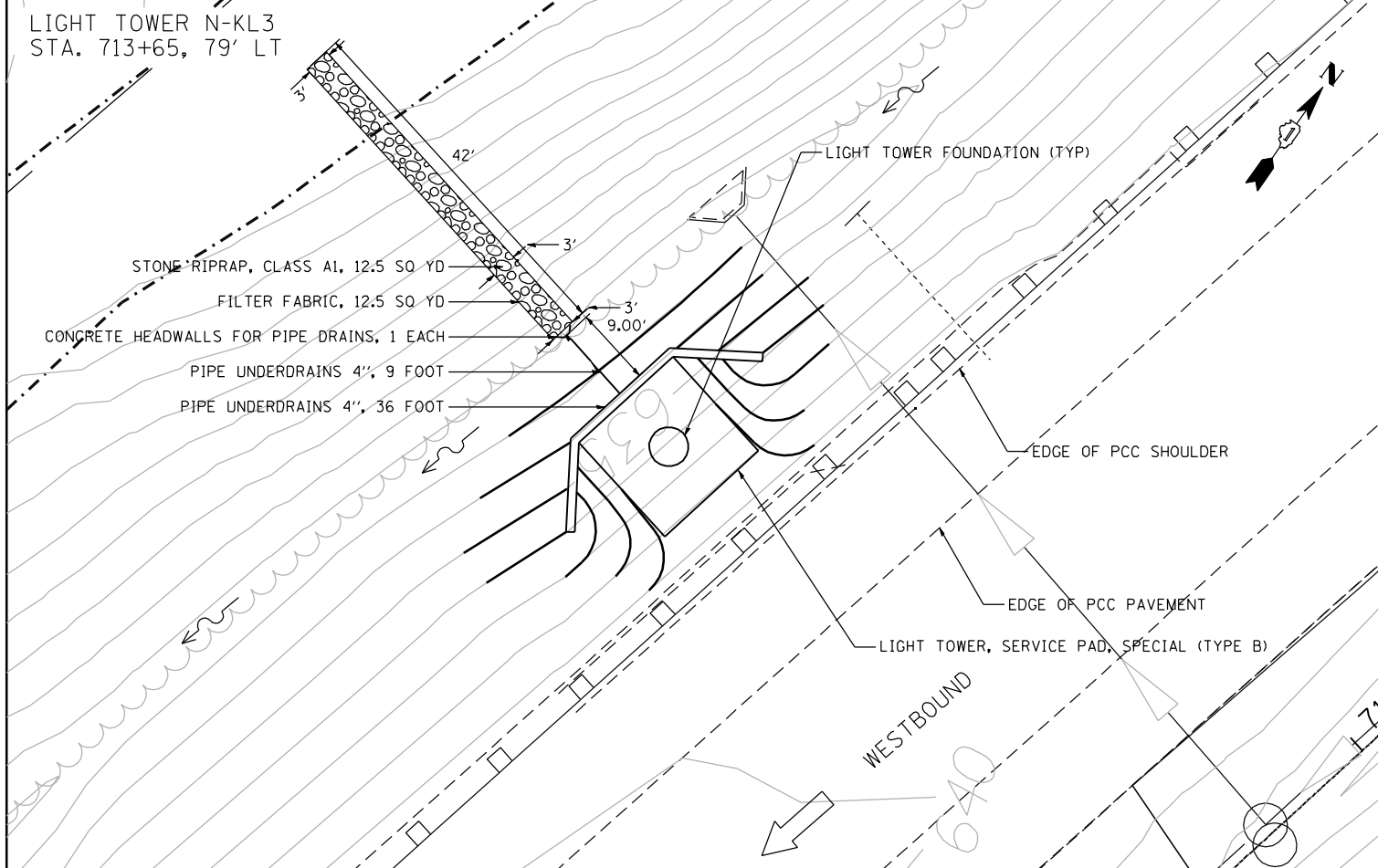
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	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
GRADING DETAILS

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

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 37
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				



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USER NAME = jvondra	DESIGNED - NT	REVISED -
PLLOT SCALE = 20.0000' / IN.	DRAWN - NT	REVISED -
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	DATE - 02-14-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

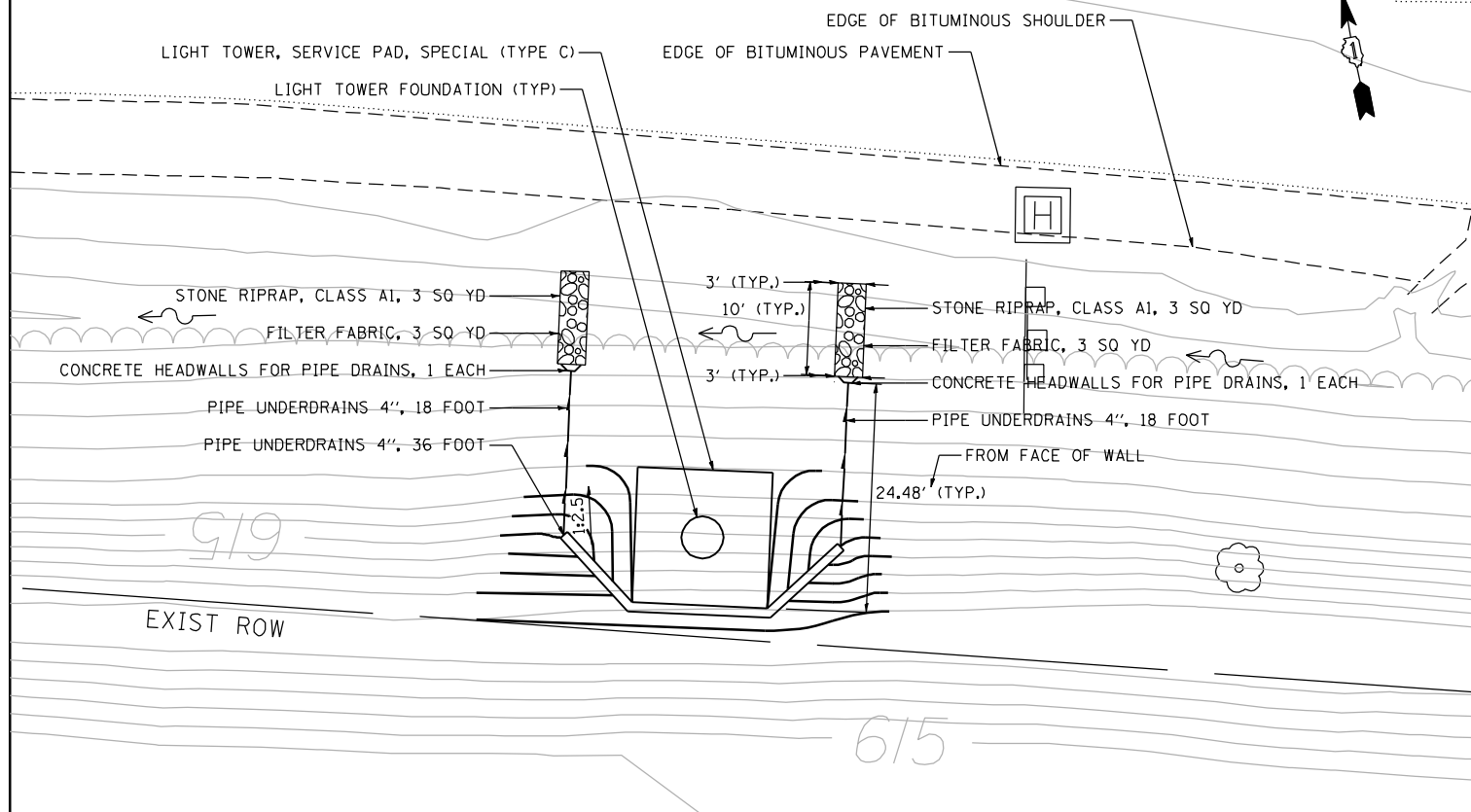
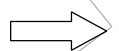
F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
GRADING DETAILS

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

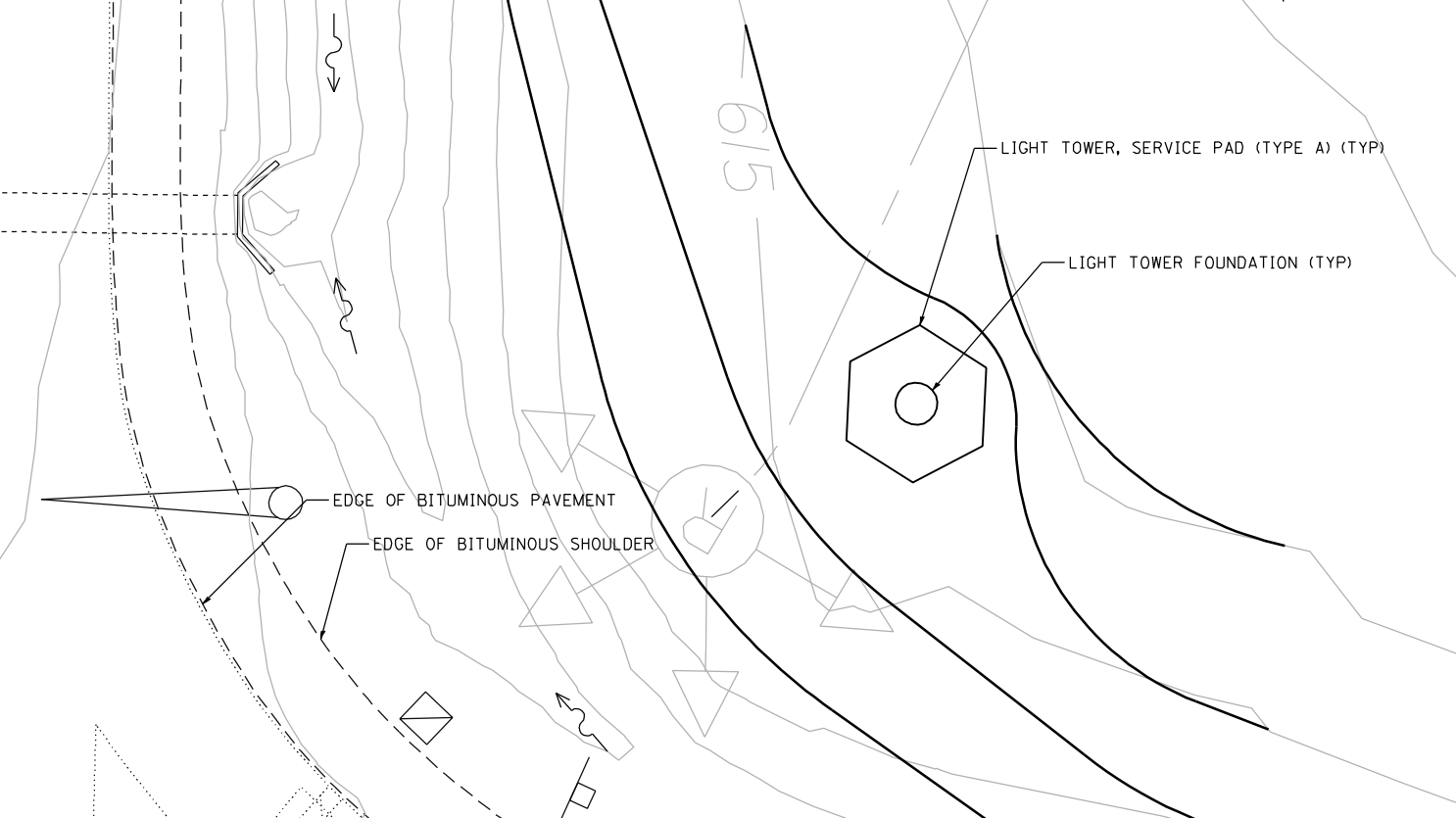
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	38
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

LIGHT TOWER N-IJ4
STA. 304+50, 80' RT

EB US 30



LIGHT TOWER N-IJ2
STA. 308+85, 120' RT



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<p>Ciorba Group, Inc. CONSULTING ENGINEERS 8007 North Cumberland Avenue, Suite 402 Chicago, Illinois 60638 Tel. 773.778.4008 Fax 773.778.4914 Email: ciorba@ciorba.com</p>	USER NAME = jvandra	DESIGNED - NT	REVISED -
	PLLOT SCALE = 20.0000' / IN.	DRAWN - NT	REVISED -
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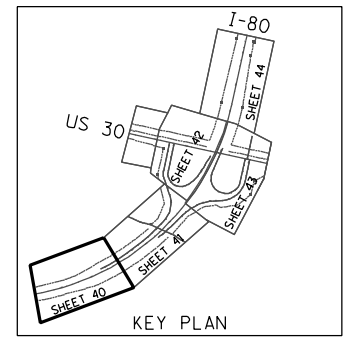
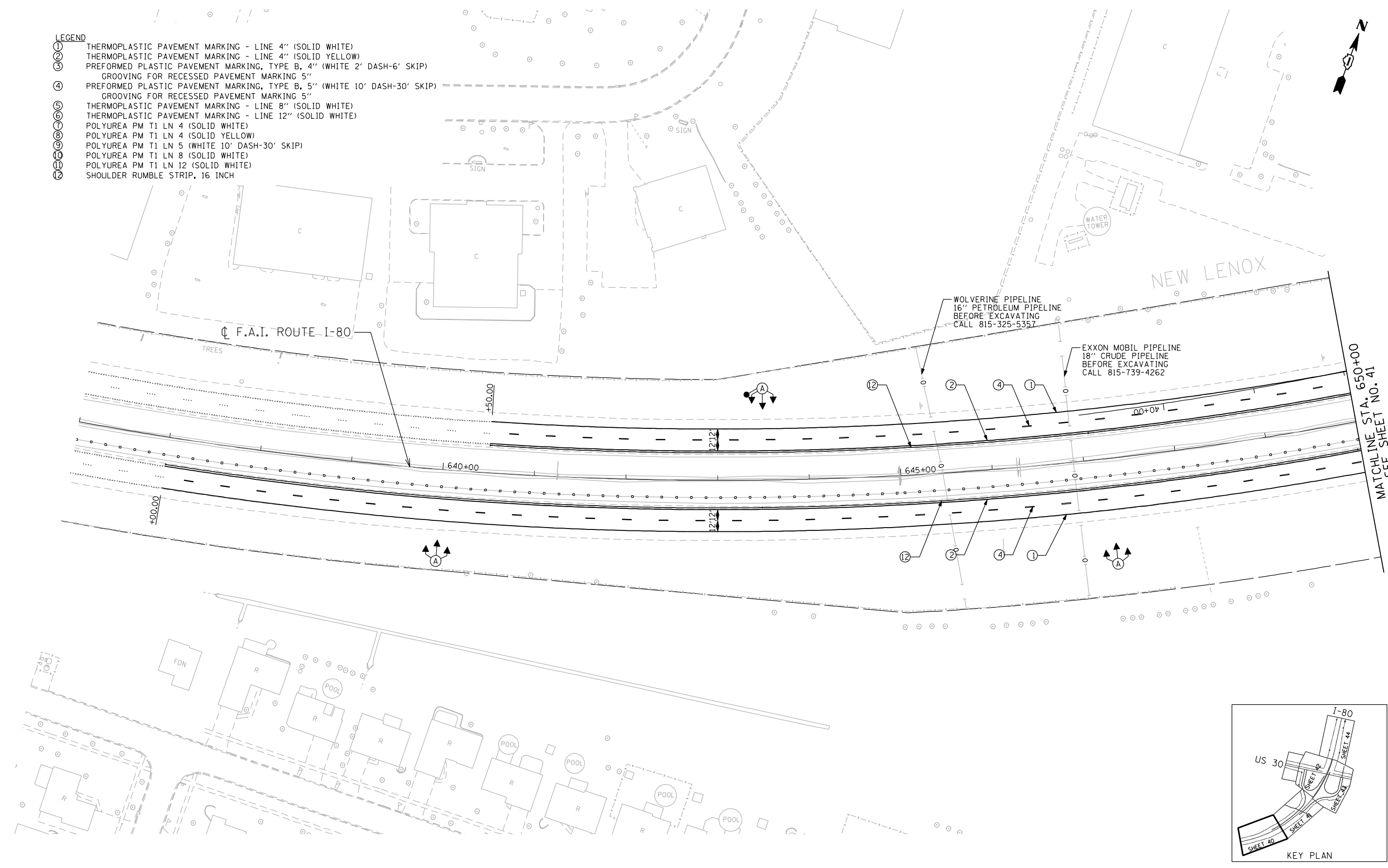
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
GRADING DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	39
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 5" (WHITE 10' DASH-30' SKIP)
 - ⑤ GROOVING FOR RECESSED PAVEMENT MARKING 5"
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑧ POLYUREA PM T1 LN 4 (SOLID WHITE)
 - ⑨ POLYUREA PM T1 LN 4 (SOLID YELLOW)
 - ⑩ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
 - ⑪ POLYUREA PM T1 LN 8 (SOLID WHITE)
 - ⑫ POLYUREA PM T1 LN 12 (SOLID WHITE)
 - ⑬ SHOULDER RUMBLE STRIP, 16 INCH



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ENGINEERING CONSULTANT
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 8607 North Cumberland Avenue, Suite 402
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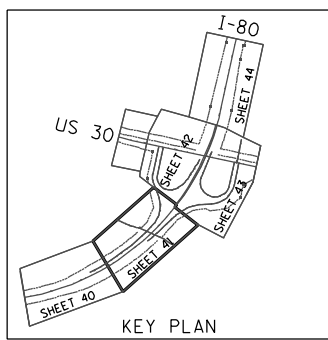
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PLDT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
PLDT DATE = 3/22/2012	CHECKED - M.J.L.	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

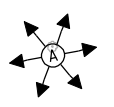
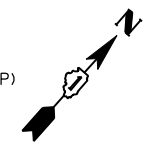
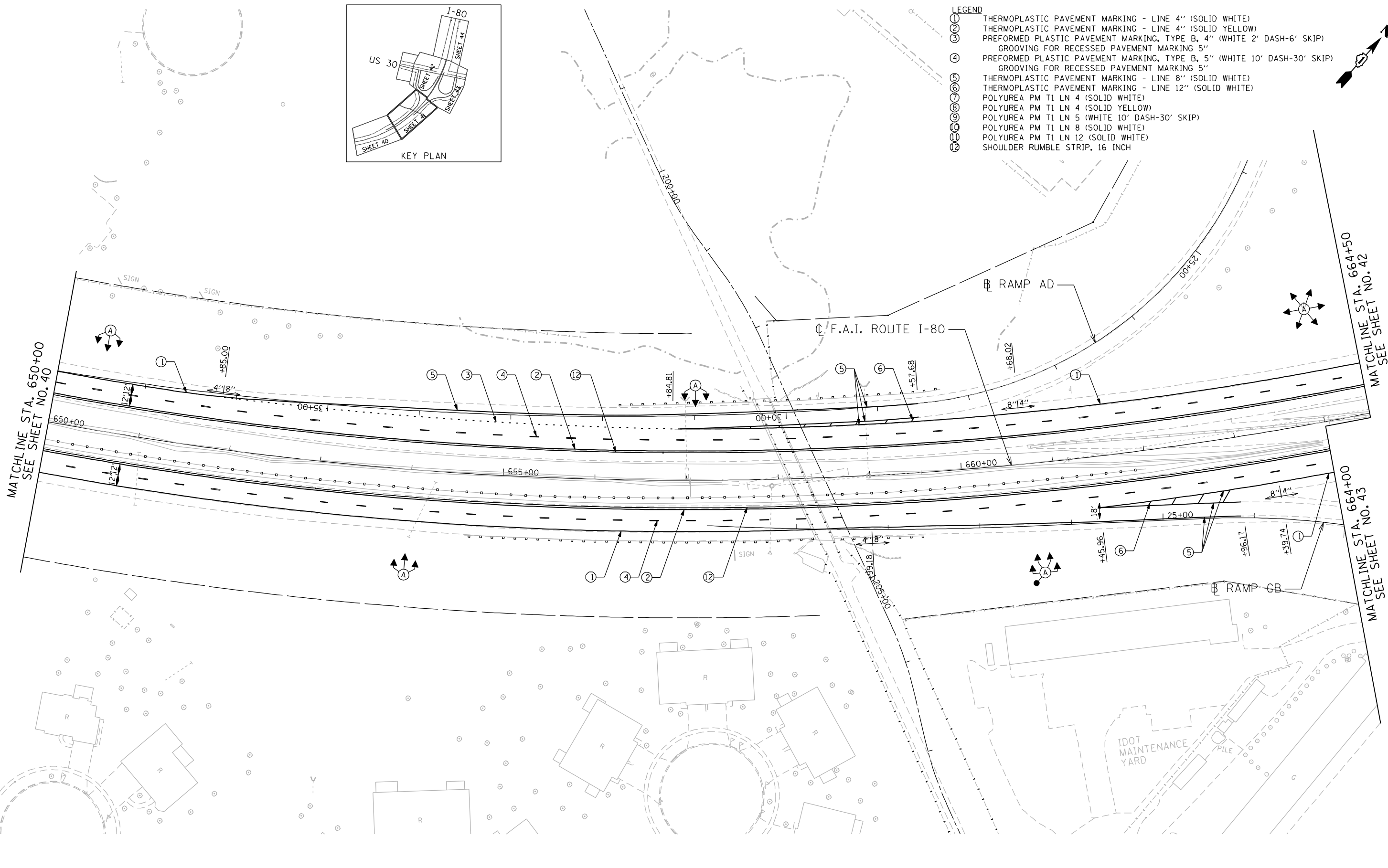
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	40
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 5" (WHITE 10' DASH-30' SKIP)
 - ⑤ GROOVING FOR RECESSED PAVEMENT MARKING 5"
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑧ POLYUREA PM T1 LN 4 (SOLID WHITE)
 - ⑨ POLYUREA PM T1 LN 4 (SOLID YELLOW)
 - ⑩ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
 - ⑪ POLYUREA PM T1 LN 8 (SOLID WHITE)
 - ⑫ POLYUREA PM T1 LN 12 (SOLID WHITE)
 - ⑬ SHOULDER RUMBLE STRIP, 16 INCH



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ENGINEERING CONSULTANT

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 8007 North Cumberland Avenue, Suite 402
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 Email: clorba@clorba.com

USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
PLLOT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
PLLOT DATE = 3/22/2012	CHECKED - MJL	REVISED -
	DATE - 02-14-2012	REVISED -

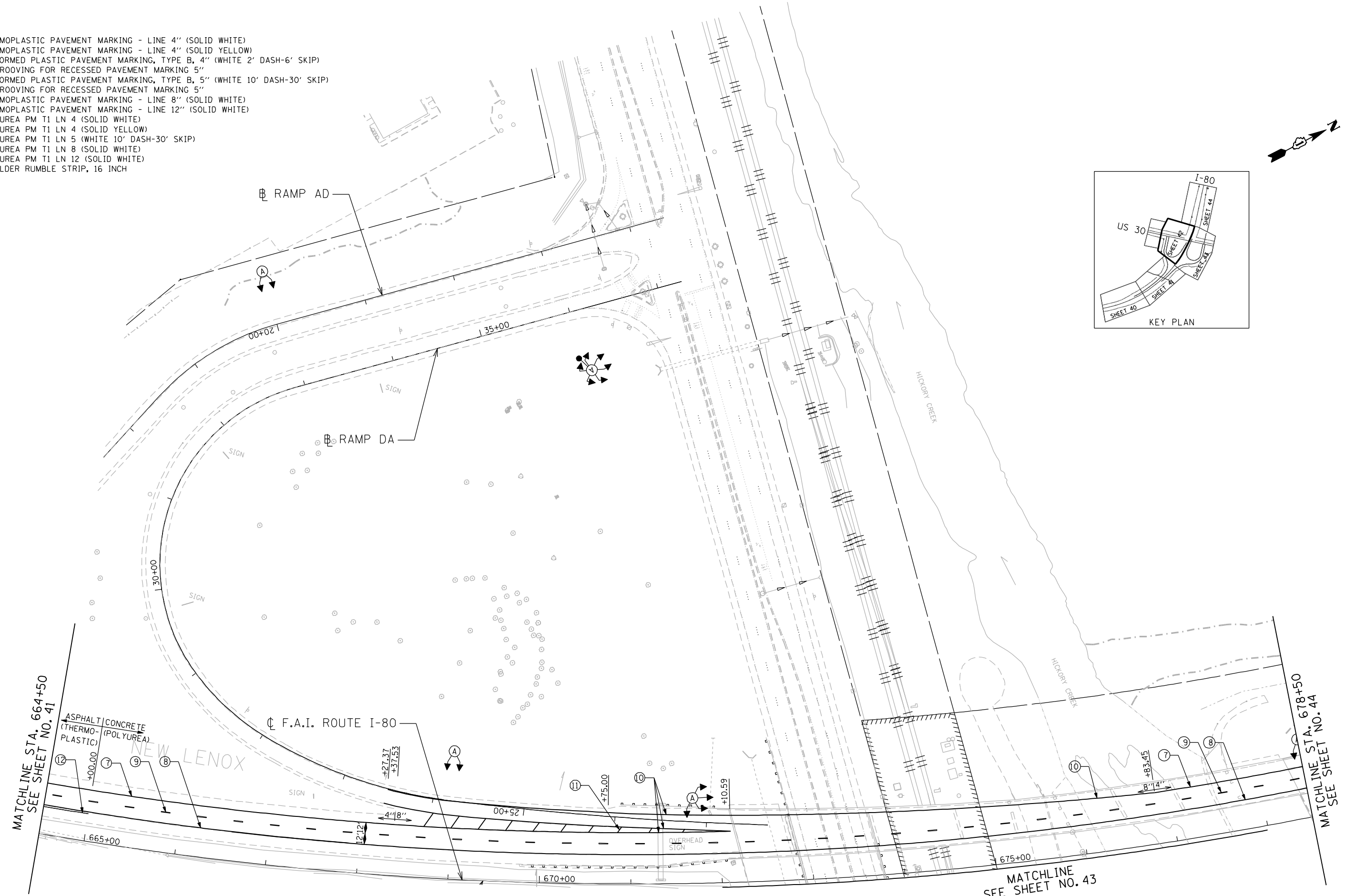
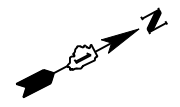
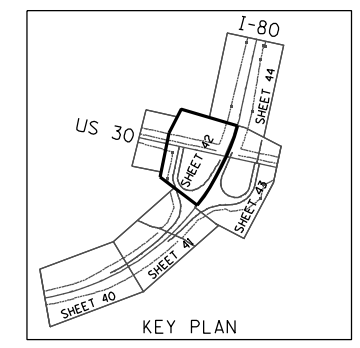
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 41
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 5" (WHITE 10' DASH-30' SKIP)
 - ⑤ GROOVING FOR RECESSED PAVEMENT MARKING 5"
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑧ POLYUREA PM T1 LN 4 (SOLID WHITE)
 - ⑨ POLYUREA PM T1 LN 4 (SOLID YELLOW)
 - ⑩ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
 - ⑪ POLYUREA PM T1 LN 8 (SOLID WHITE)
 - ⑫ POLYUREA PM T1 LN 12 (SOLID WHITE)
 - ⑬ SHOULDER RUMBLE STRIP, 16 INCH



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 8007 North Cumberland Avenue, Suite 402
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 Email: ciorba@ciorba.com

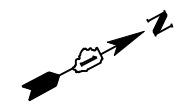
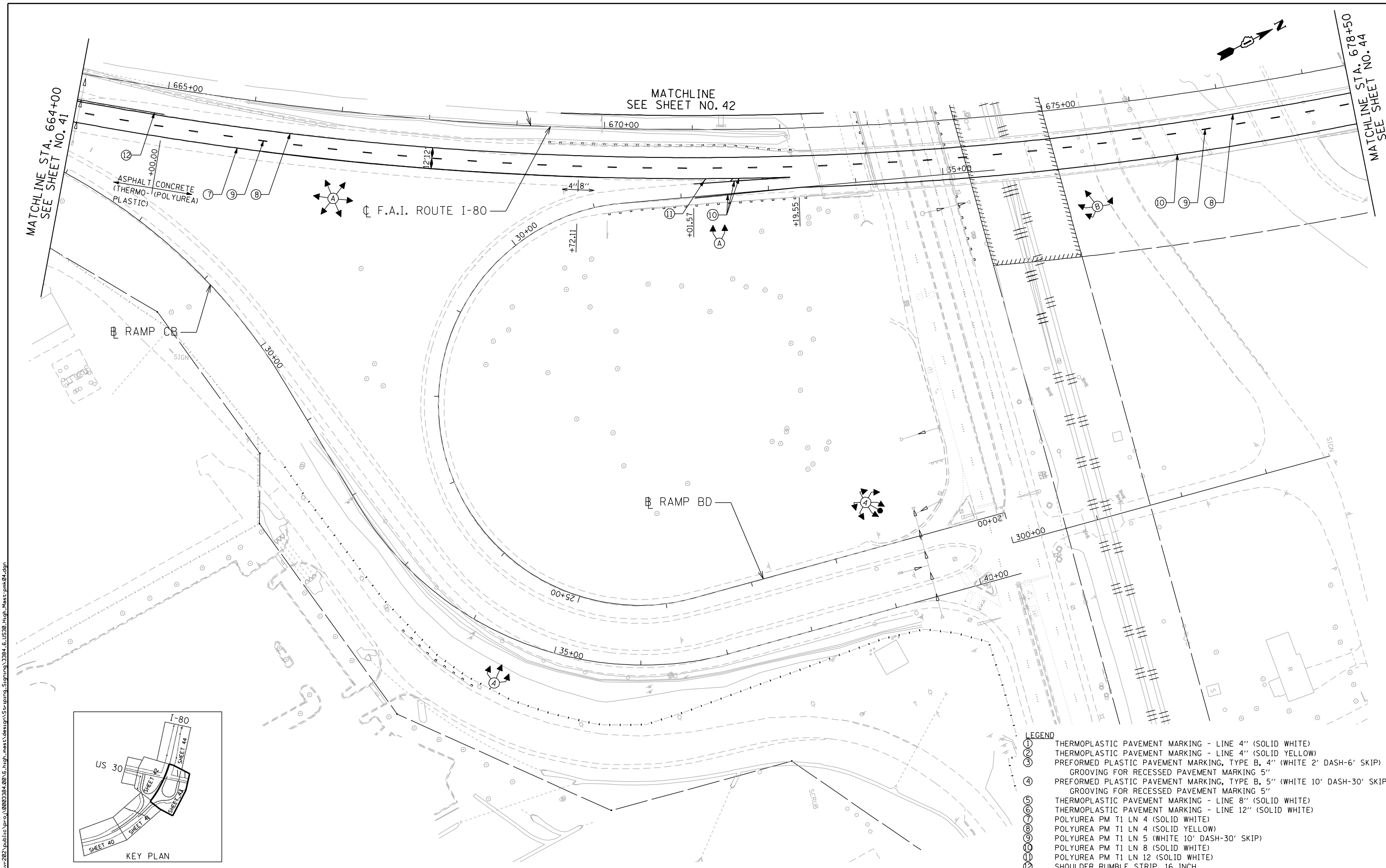
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PLDT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
PLDT DATE = 3/22/2012	CHECKED - M.JL	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 42
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



MATCHLINE STA. 664+00
SEE SHEET NO. 41

MATCHLINE
SEE SHEET NO. 42

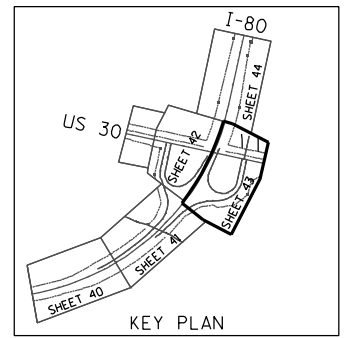
MATCHLINE STA. 678+50
SEE SHEET NO. 44

ASPHALT CONCRETE
(THERMO- (POLYUREA)
PLASTIC)

CL F.A.I. ROUTE I-80

RAMP CB

RAMP BD



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING 5"
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GROOVING FOR RECESSED PAVEMENT MARKING 5"
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑦ POLYUREA PM T1 LN 4 (SOLID WHITE)
 - ⑧ POLYUREA PM T1 LN 4 (SOLID YELLOW)
 - ⑨ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
 - ⑩ POLYUREA PM T1 LN 8 (SOLID WHITE)
 - ⑪ POLYUREA PM T1 LN 12 (SOLID WHITE)
 - ⑫ SHOULDER RUMBLE STRIP, 16 INCH

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 Email: ciorba@ciorba.com

USER NAME = jk.jeilman
 PLT SCALE = 100.0000' / IN.
 PLT DATE = 3/22/2012

DESIGNED - JMK
 DRAWN - JMK
 CHECKED - M.J.L.
 DATE - 02-14-2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 PAVEMENT MARKING PLAN**

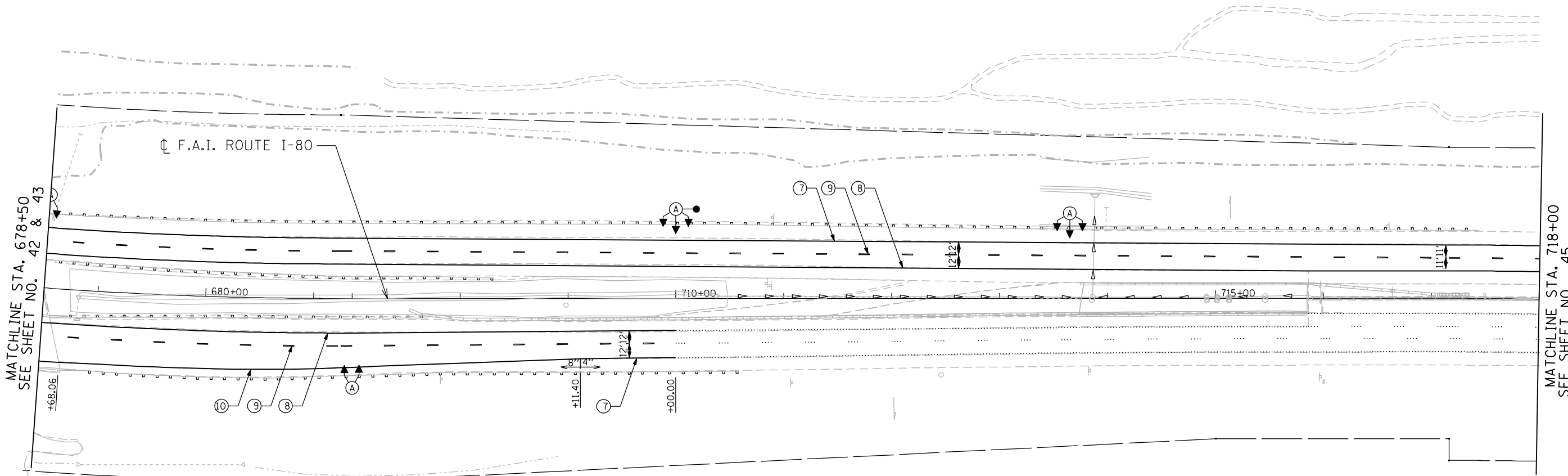
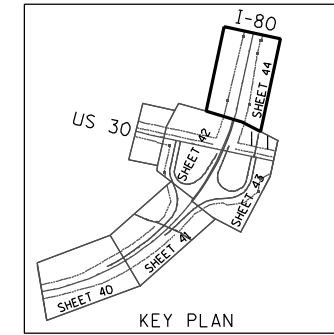
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	43
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
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- ⑧ POLYUREA PM T1 LN 4 (SOLID WHITE)
- ⑨ POLYUREA PM T1 LN 4 (SOLID YELLOW)
- ⑩ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
- ⑪ POLYUREA PM T1 LN 8 (SOLID WHITE)
- ⑫ POLYUREA PM T1 LN 12 (SOLID WHITE)
- ⑬ SHOULDER RUMBLE STRIP, 16 INCH



MATCHLINE STA. 678+50
SEE SHEET NO. 42 & 43

MATCHLINE STA. 718+00
SEE SHEET NO. 45

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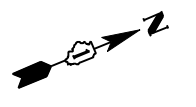
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DRAWN - JMK	REVISIONS -	
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PLLOT DATE = 3/22/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	44
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, 4" (WHITE 2' DASH-6' SKIP)
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 - ⑨ POLYUREA PM T1 LN 4 (SOLID YELLOW)
 - ⑩ POLYUREA PM T1 LN 5 (WHITE 10' DASH-30' SKIP)
 - ⑪ POLYUREA PM T1 LN 8 (SOLID WHITE)
 - ⑫ POLYUREA PM T1 LN 12 (SOLID WHITE)
 - ⑬ SHOULDER RUMBLE STRIP, 16 INCH



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USER NAME = jk.jeilman	DESIGNED - JMK	REVISED -
PLLOT SCALE = 100.0000' / IN.	DRAWN - JMK	REVISED -
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	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

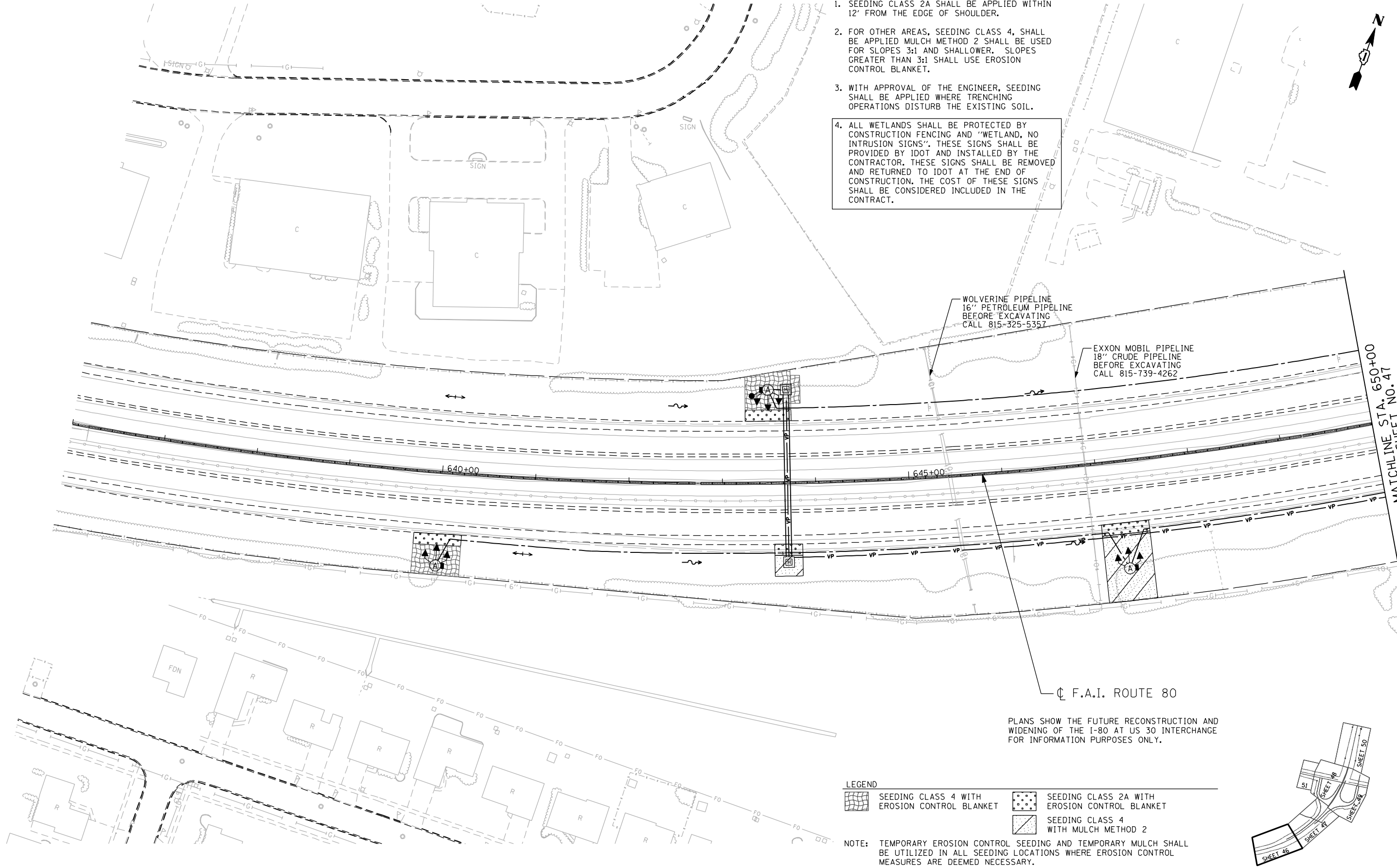
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	45
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

NOTES:

1. SEEDING CLASS 2A SHALL BE APPLIED WITHIN 12' FROM THE EDGE OF SHOULDER.
2. FOR OTHER AREAS, SEEDING CLASS 4, SHALL BE APPLIED. MULCH METHOD 2 SHALL BE USED FOR SLOPES 3:1 AND SHALLOWER. SLOPES GREATER THAN 3:1 SHALL USE EROSION CONTROL BLANKET.
3. WITH APPROVAL OF THE ENGINEER, SEEDING SHALL BE APPLIED WHERE TRENCHING OPERATIONS DISTURB THE EXISTING SOIL.
4. ALL WETLANDS SHALL BE PROTECTED BY CONSTRUCTION FENCING AND "WETLAND, NO INTRUSION SIGNS". THESE SIGNS SHALL BE PROVIDED BY IDOT AND INSTALLED BY THE CONTRACTOR. THESE SIGNS SHALL BE REMOVED AND RETURNED TO IDOT AT THE END OF CONSTRUCTION. THE COST OF THESE SIGNS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.



WOLVERINE PIPELINE
16" PETROLEUM PIPELINE
BEFORE EXCAVATING
CALL 815-325-5357

EXXON MOBIL PIPELINE
18" CRUDE PIPELINE
BEFORE EXCAVATING
CALL 815-739-4262

MATCHLINE STA. 650+00
SEE SHEET NO. 47

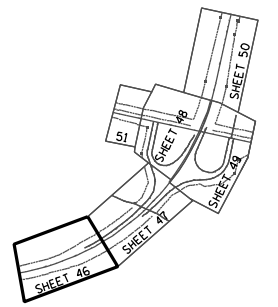
CL F.A.I. ROUTE 80

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.

LEGEND

- SEEDING CLASS 4 WITH EROSION CONTROL BLANKET
- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 WITH MULCH METHOD 2

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.



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USER NAME = dmorris	DESIGNED - RJR	REVISED -
PLLOT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -
PLLOT DATE = 3/22/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

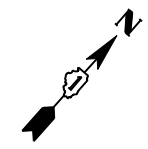
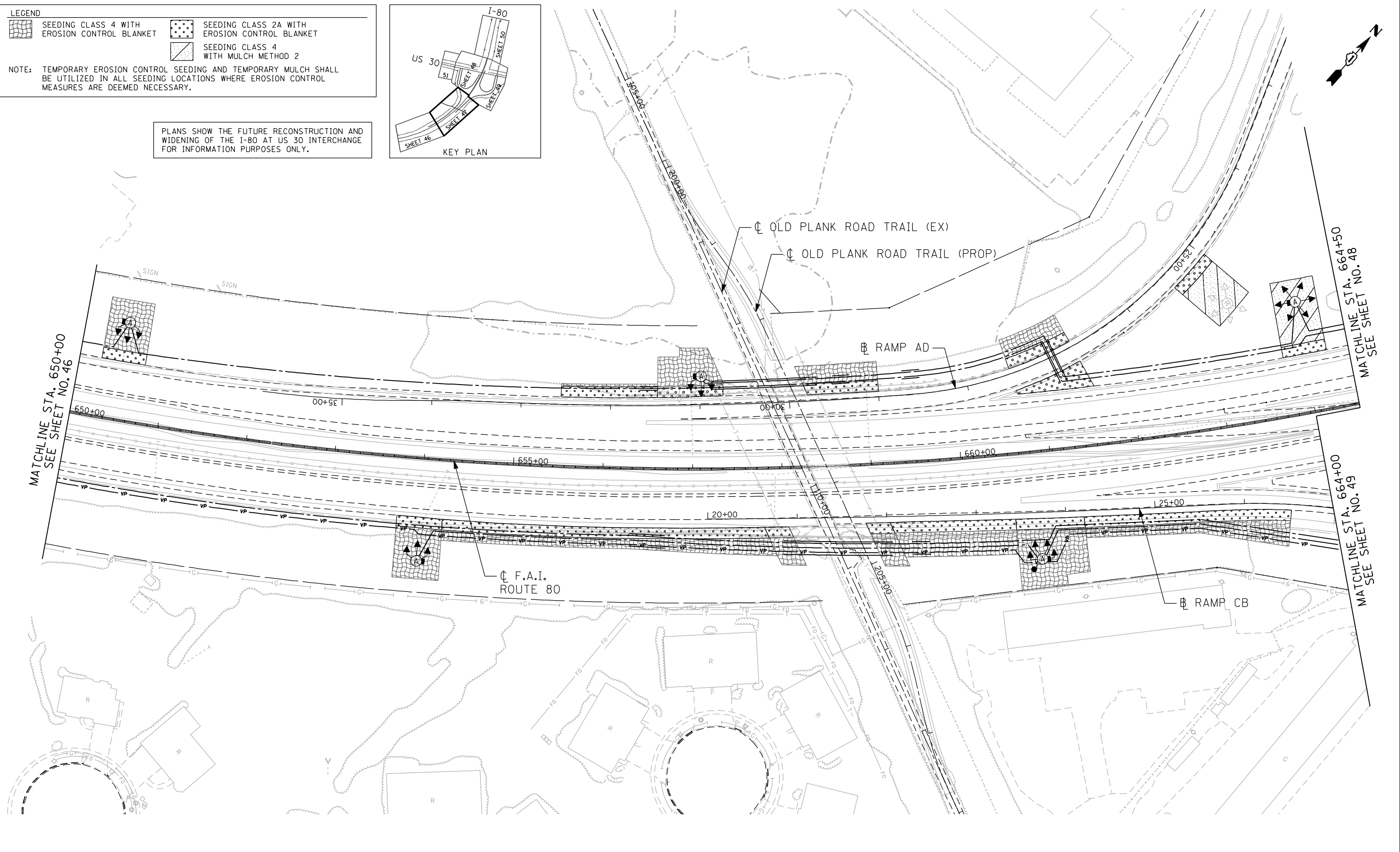
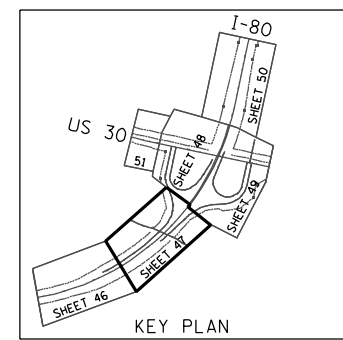
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			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				

LEGEND

	SEEDING CLASS 4 WITH EROSION CONTROL BLANKET		SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
	SEEDING CLASS 4 WITH MULCH METHOD 2		

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



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USER NAME = jvondra
 PLDT SCALE = 100.0000' / IN.
 PLDT DATE = 2/13/2012

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 DRAWN - RJR
 CHECKED - JMV
 DATE - 02-14-2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

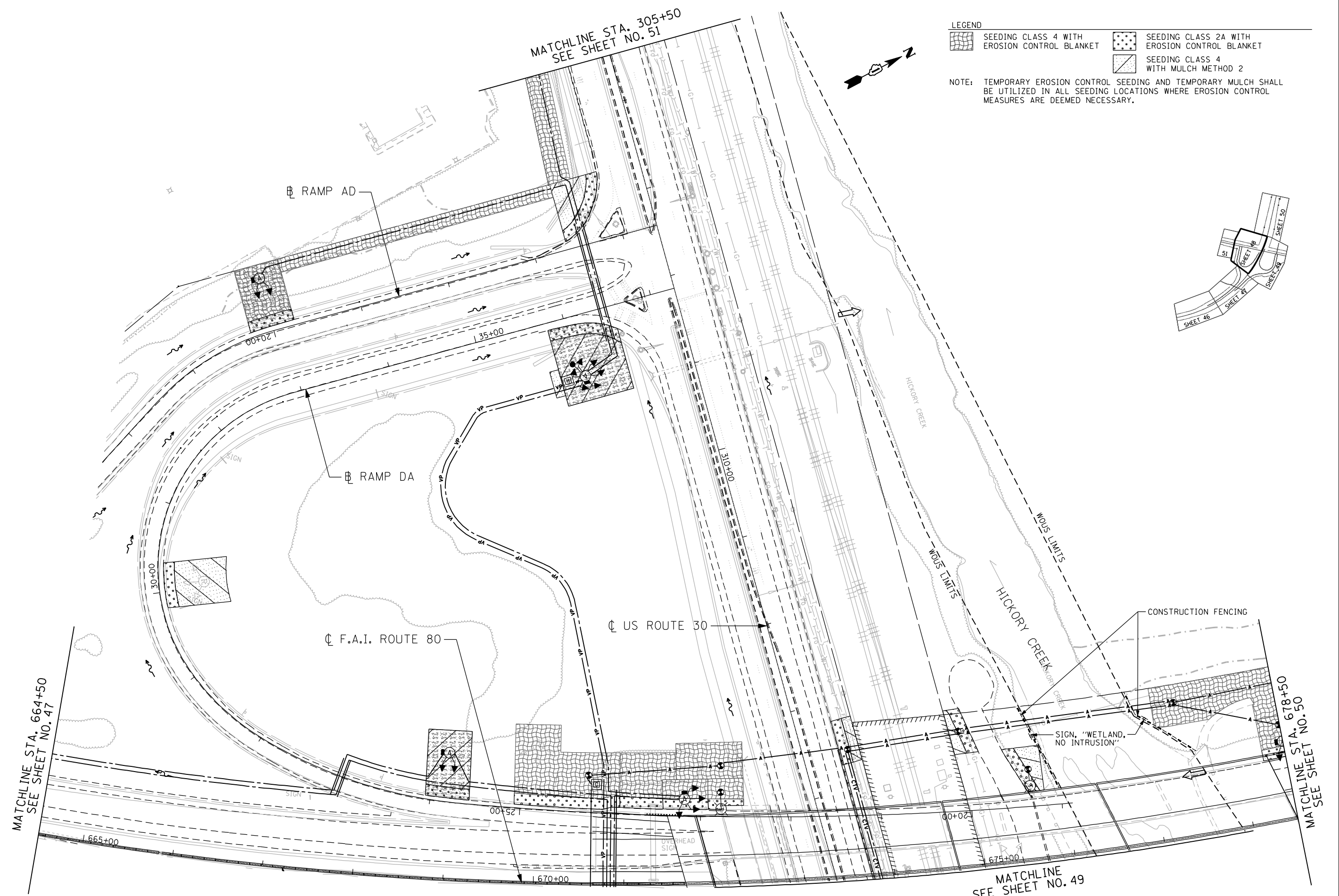
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 47
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

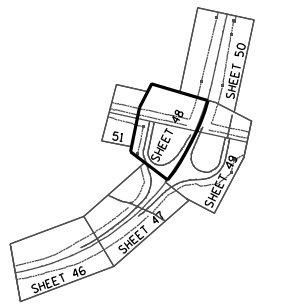
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LEGEND

	SEEDING CLASS 4 WITH EROSION CONTROL BLANKET		SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
	SEEDING CLASS 4 WITH MULCH METHOD 2		

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.



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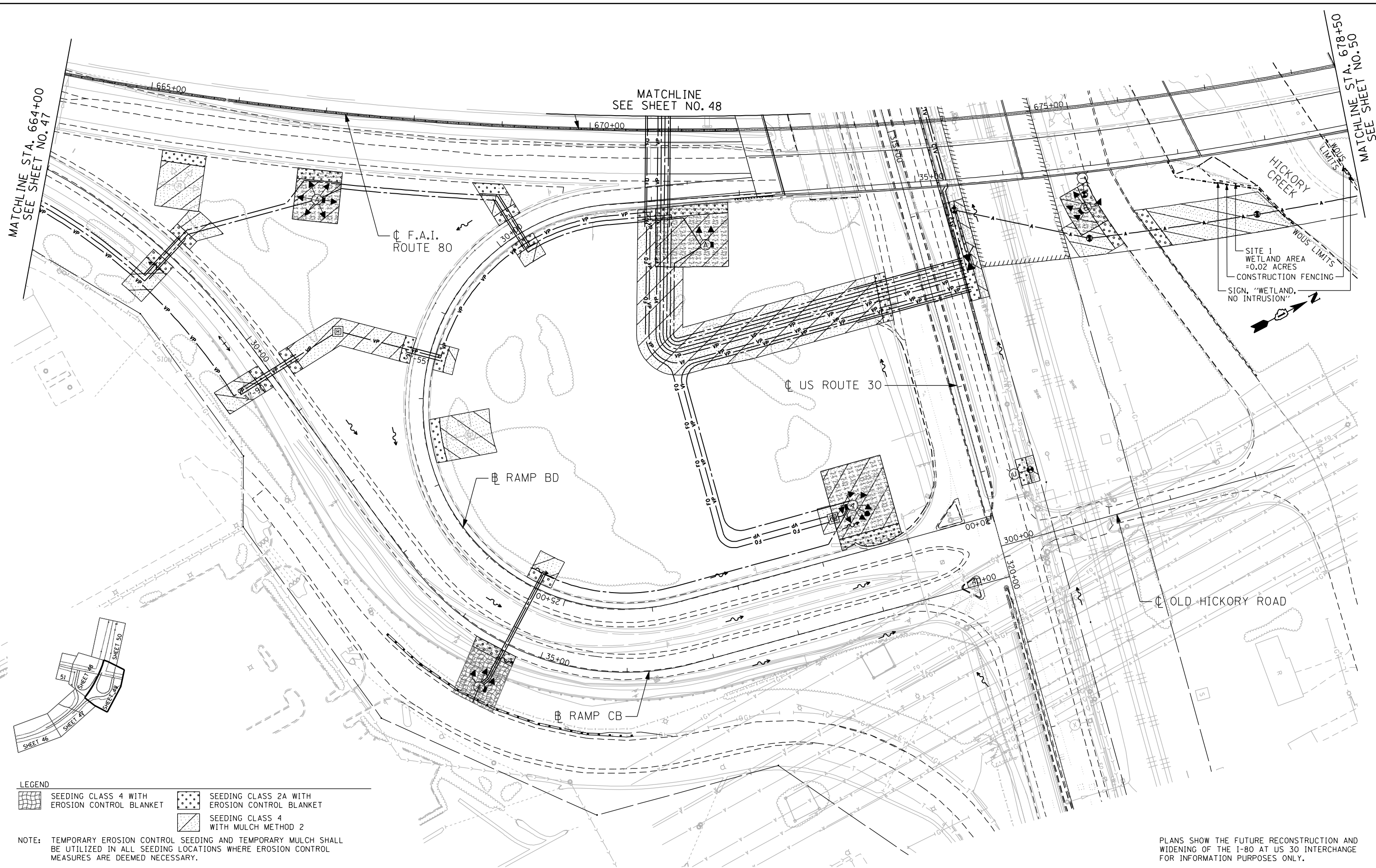
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	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	48
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



LEGEND

	SEEDING CLASS 4 WITH EROSION CONTROL BLANKET		SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
	SEEDING CLASS 4 WITH MULCH METHOD 2		

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.

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PLLOT SCALE = 100.0000' / IN.	DRAWN - RJR	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

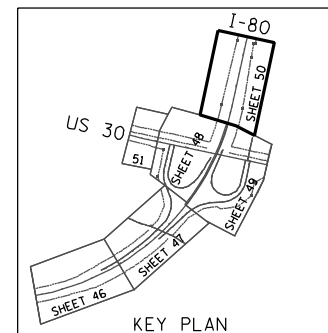
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 LANDSCAPING PLAN**
 SCALE: 1" = 50'
 SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	49
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

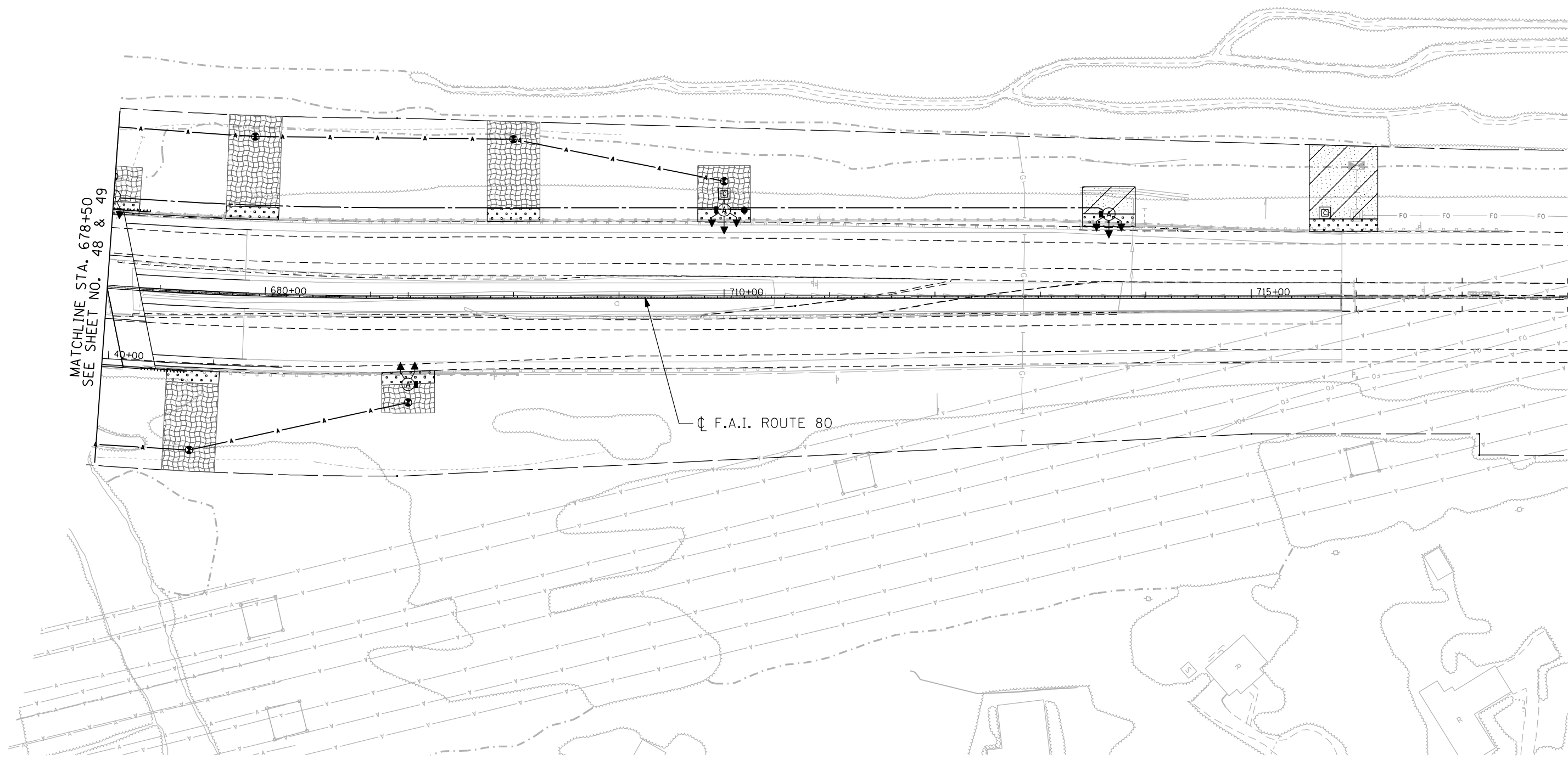
LEGEND

- SEEDING CLASS 4 WITH EROSION CONTROL BLANKET
- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 WITH MULCH METHOD 2

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



MATCHLINE STA. 678+50
SEE SHEET NO. 48 & 49

☐ F.A.I. ROUTE 80

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USER NAME = jvandra	DESIGNED - RJR	REVISED -
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	DATE - 02-14-2012	REVISED -




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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LANDSCAPING PLAN**
 SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

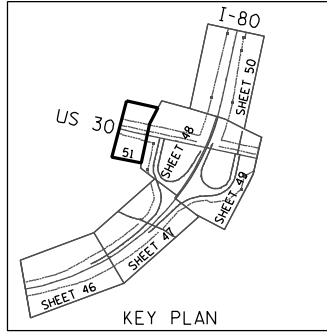
F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 50
			CONTRACT NO. 60P56	
ILLINOIS FED. AID PROJECT				



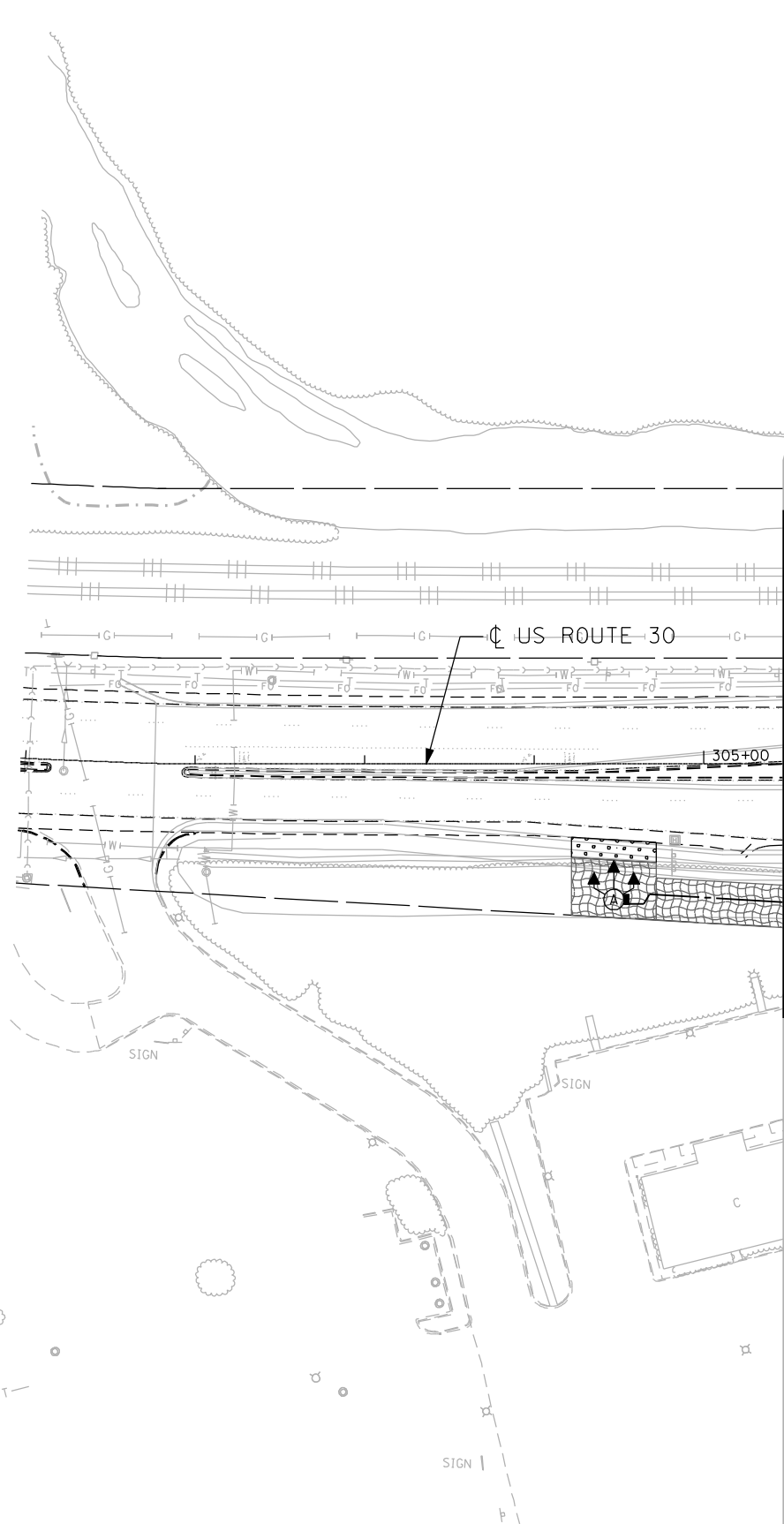
LEGEND

	SEEDING CLASS 4 WITH EROSION CONTROL BLANKET		SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
	SEEDING CLASS 4 WITH MULCH METHOD 2		

NOTE: TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY MULCH SHALL BE UTILIZED IN ALL SEEDING LOCATIONS WHERE EROSION CONTROL MEASURES ARE DEEMED NECESSARY.



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY.



MATCHLINE STA. 305+50
SEE SHEET NO. 48

m:\proj\0803384.dwg high_mast\design\eros\lndscp\384_6_US30_high_mast_eros06_3-5.dgn

ENGINEERING CONSULTANT

Clorba Group, Inc.
CONSULTING ENGINEERS
8607 North Cumberland Avenue, Suite 402
Chicago, Illinois 60634
Tel. 773.778.4008 Fax 773.778.4914
Email: cgroup@clorba.com

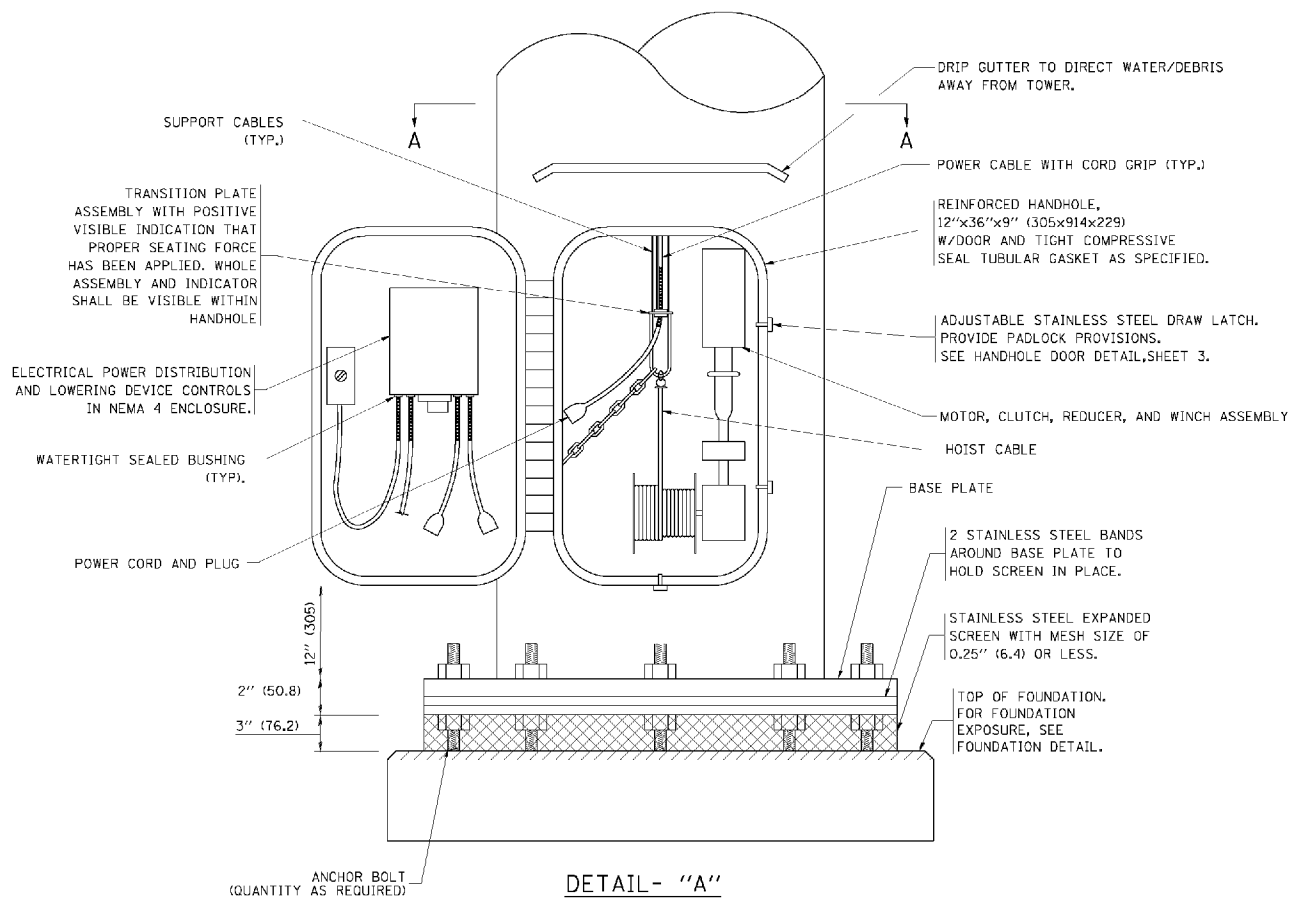
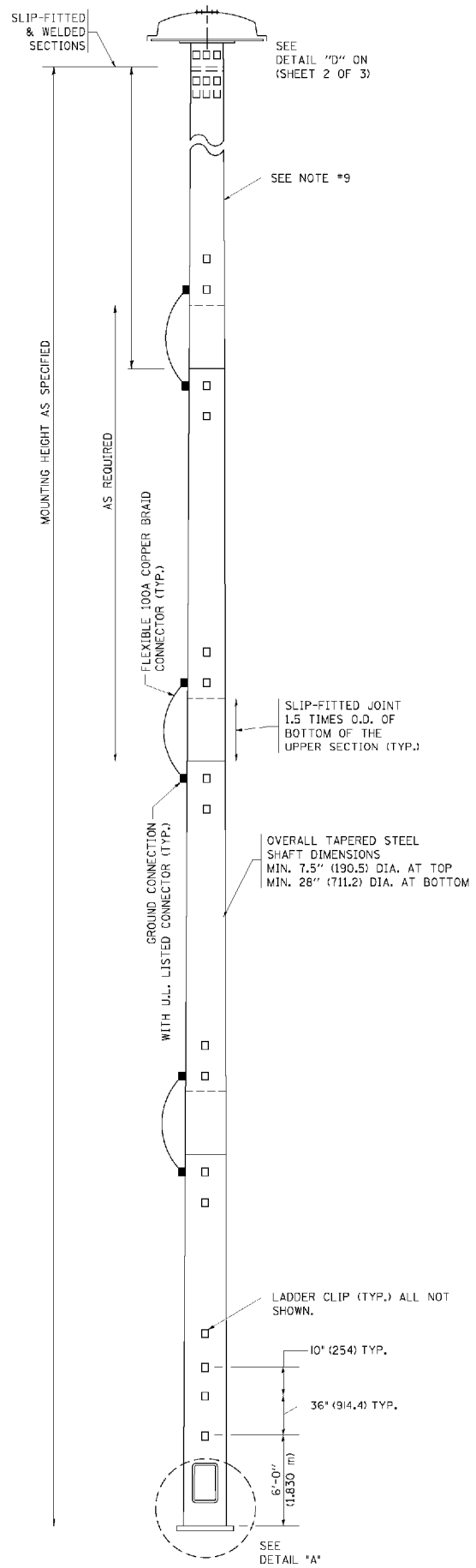
USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLLOT SCALE = 100.0000 ' / IN.	DRAWN - RJR	REVISED -
PLLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

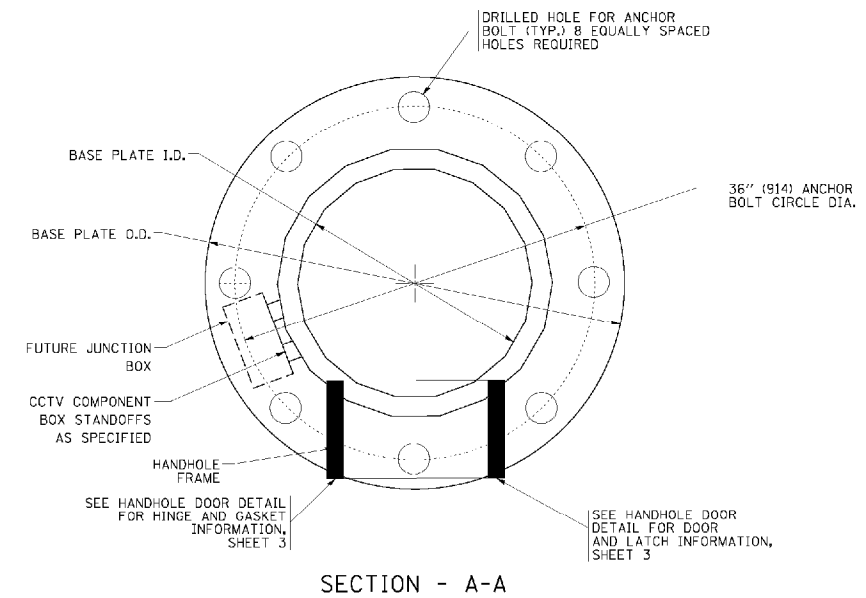
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	51
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				



DETAIL - "A"
3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.

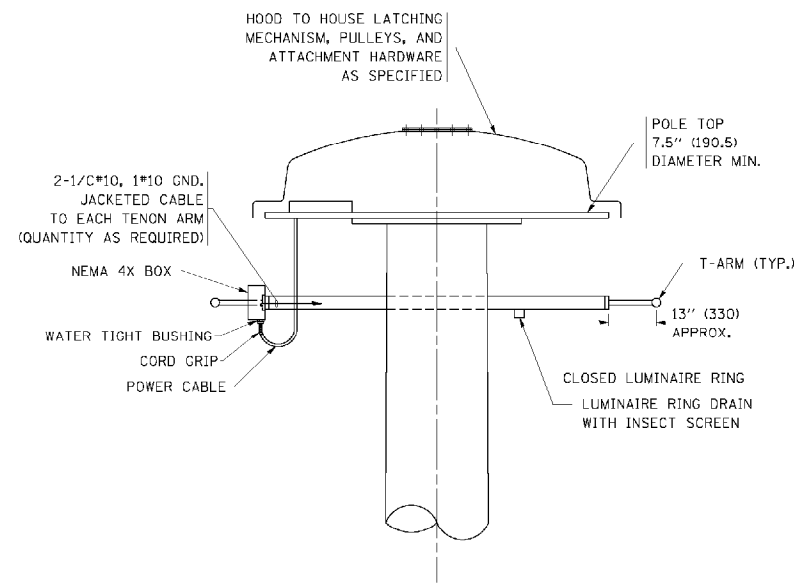


SECTION - A-A

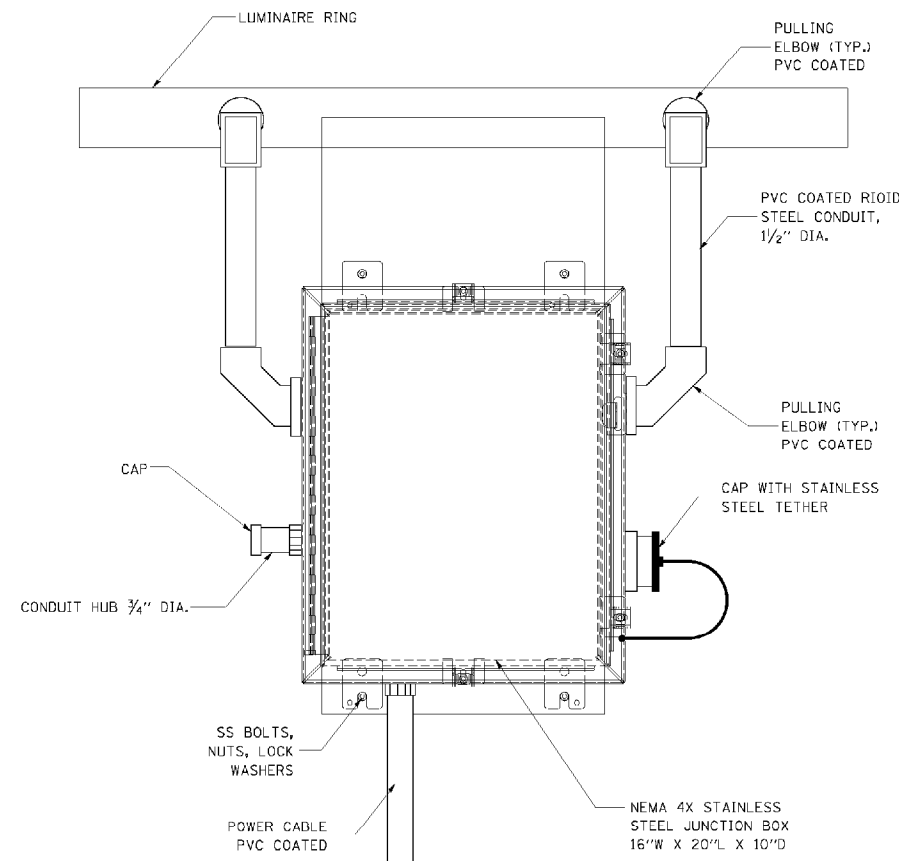
NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE DESIGN SHALL BE BASED UPON AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED AND A TOTAL COMBINED LUMINAIRE WEIGHT OF 720 LBS. (326 kg) AND HAVING A TOTAL PROJECTED AREA OF 24 SQ. FT. (7.3 sq. m).
- ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN CUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 223 (ASTM A 572 GR50)
- THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 1.8 m (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123).
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.
- THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
- COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

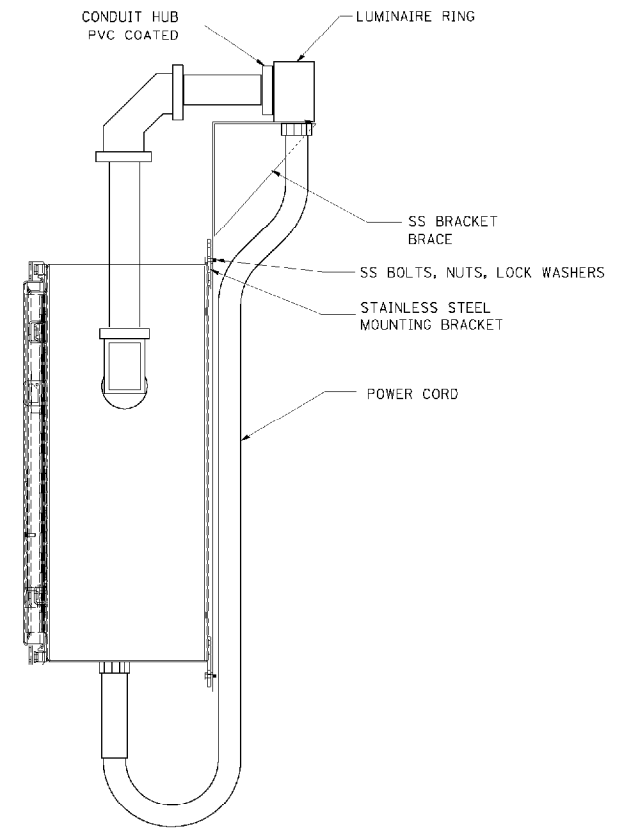
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PLOT SCALE - 50.0000 "/> <td>PLOT DATE - 9/21/2010</td> <td>CHECKED -</td> <td>REVISED - 09-02-10</td> <td>SCALE: NONE</td> <td>SHEET NO. 1 OF 3 SHEETS</td> <td>STA. TO STA.</td> <td colspan="5" style="text-align: center;">BE-505 CONTRACT NO. 60P56</td>	PLOT DATE - 9/21/2010	CHECKED -	REVISED - 09-02-10		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	BE-505 CONTRACT NO. 60P56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



DETAIL - "D"

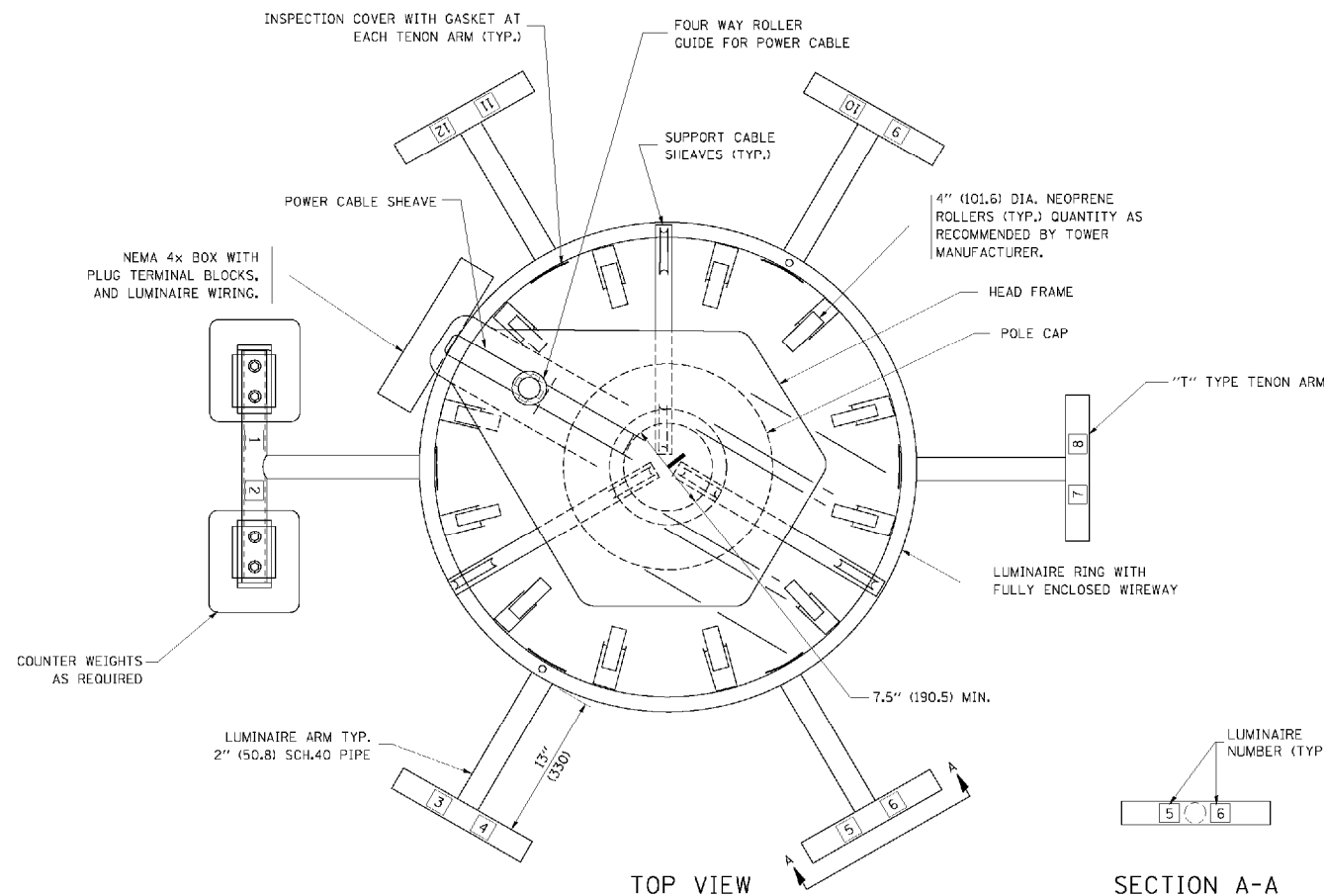


FRONT VIEW
N.T.S.

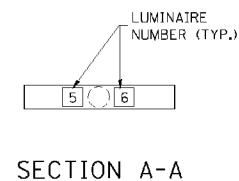


SIDE VIEW
N.T.S.

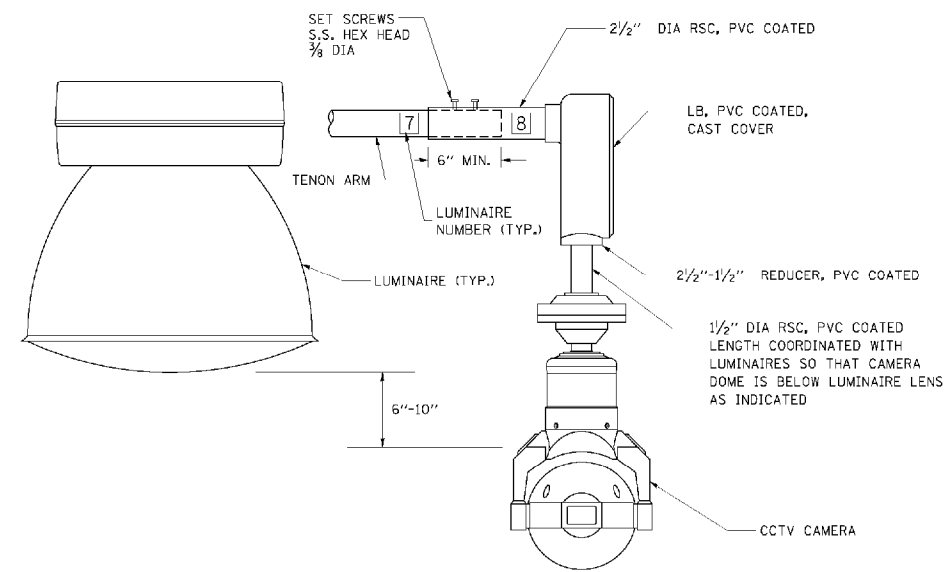
LUMINAIRE RING TERMINAL BOX



TOP VIEW



SECTION A-A

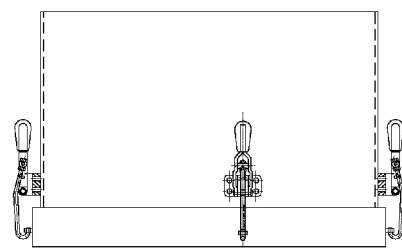


CCTV CAMERA MOUNTING DETAIL

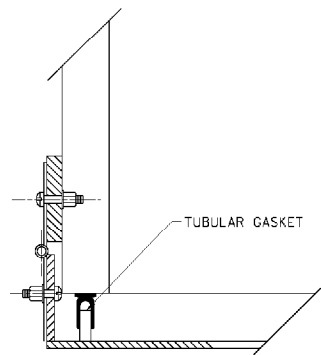
NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609 mm) LONGER THAN THEIR RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-T-81765/1.

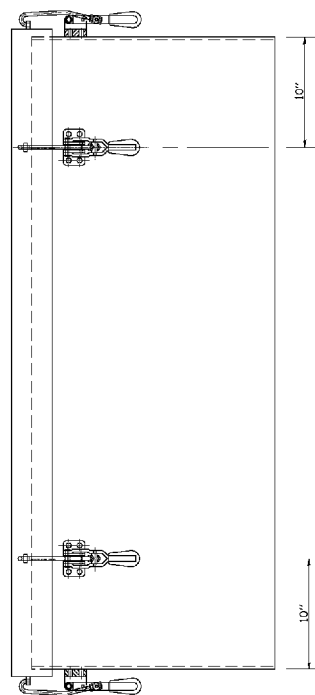
FILE NAME = c:\pwwork\pwwork\drivakosqn\d0108315\be005.dgn	USER NAME = drivakosqn	DESIGNED - DRAWN -	REVISED - 09-02-03 REVISED - 03-22-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 120 FT TO 140 FT (36 m TO 43 m)			F.A. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 54
PLOT SCALE - 50.0000 "/> <td>PLOT DATE - 9/21/2010</td> <td>CHECKED -</td> <td>REVISED - 09-02-10</td> <td>SCALE: NONE</td> <td>SHEET NO. 2 OF 3 SHEETS</td> <td>STA.</td> <td>TO STA.</td> <td colspan="4" style="text-align: center;">BE-505 CONTRACT NO. 60P56</td>	PLOT DATE - 9/21/2010	CHECKED -	REVISED - 09-02-10		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	BE-505 CONTRACT NO. 60P56			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



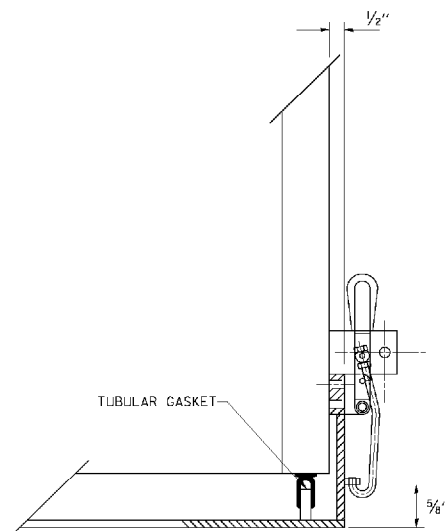
TOP VIEW



HINGE DETAIL

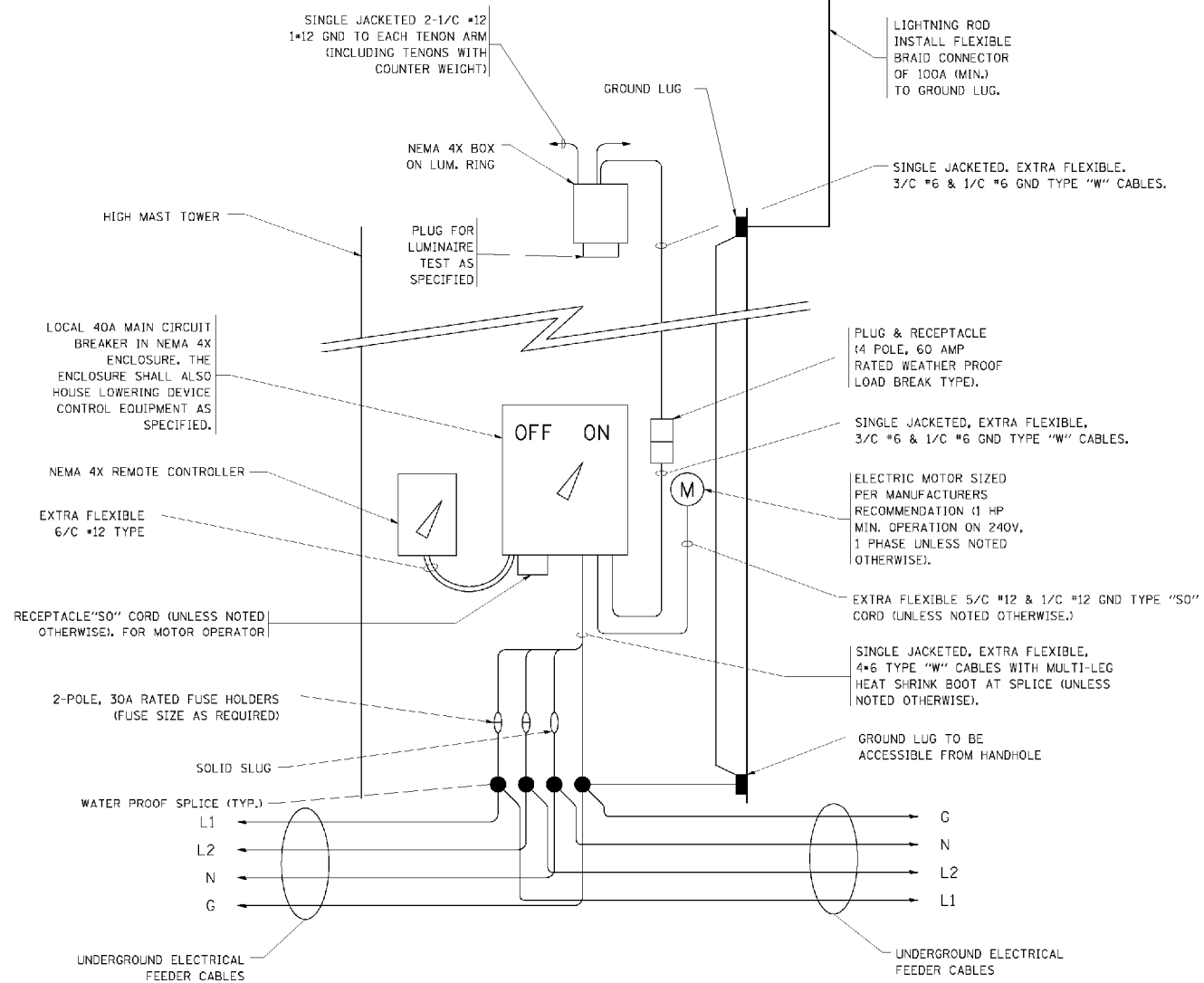


SIDE VIEW

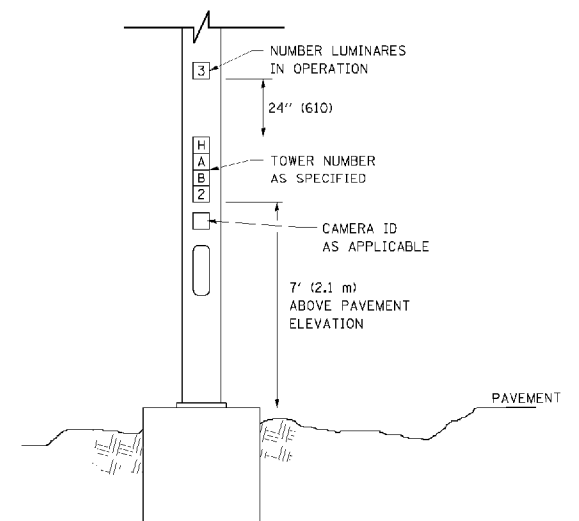


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



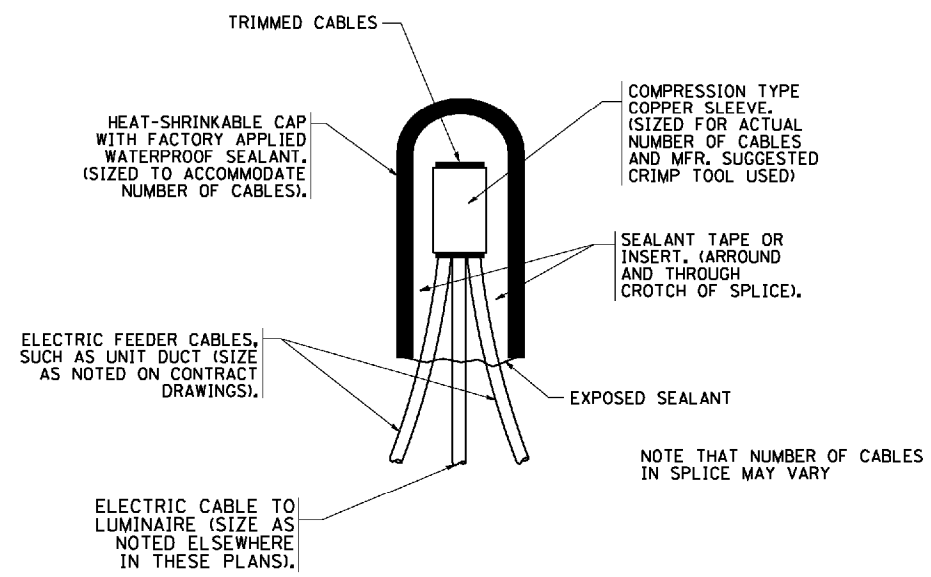
LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = drvakosqn	DESIGNED -	REVISED - 09-02-03
c:\pwwork\pwwork\drvakosqn\d0108315\be005.dgn		DRAWN -	REVISED - 03-22-10
		CHECKED -	REVISED - 09-02-10
		DATE -	REVISED -

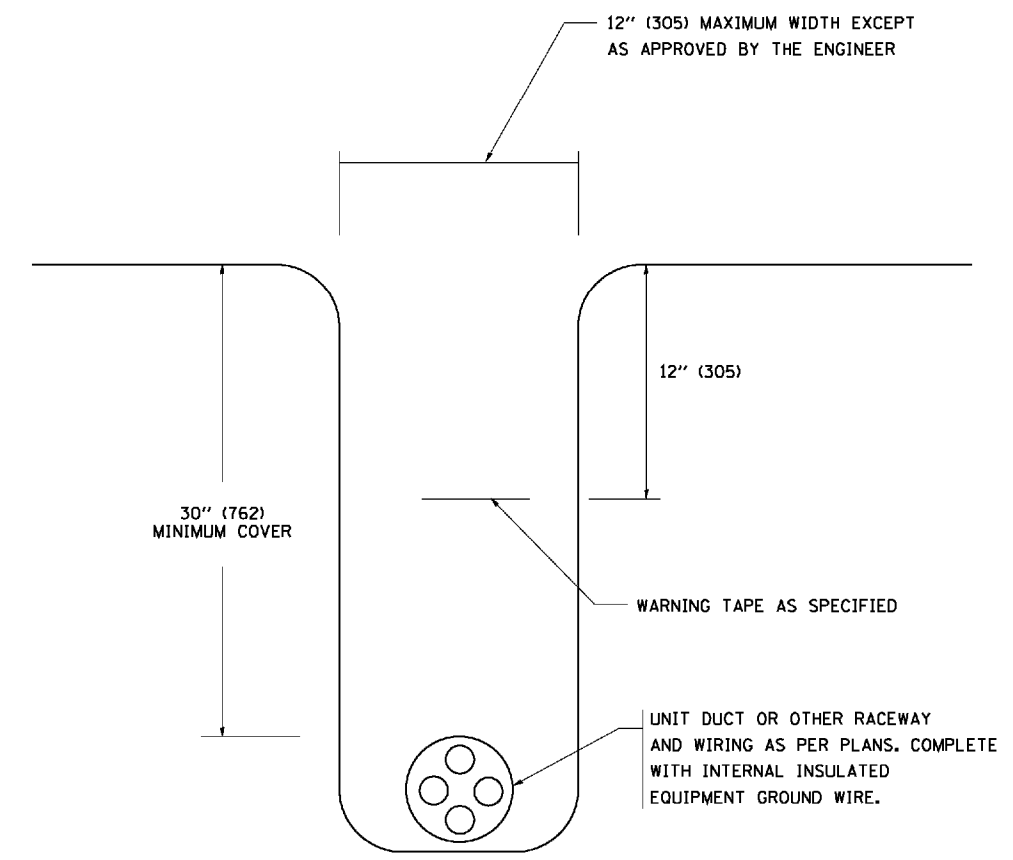
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER			
120 FT TO 140 FT (36 m TO 43 m)			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

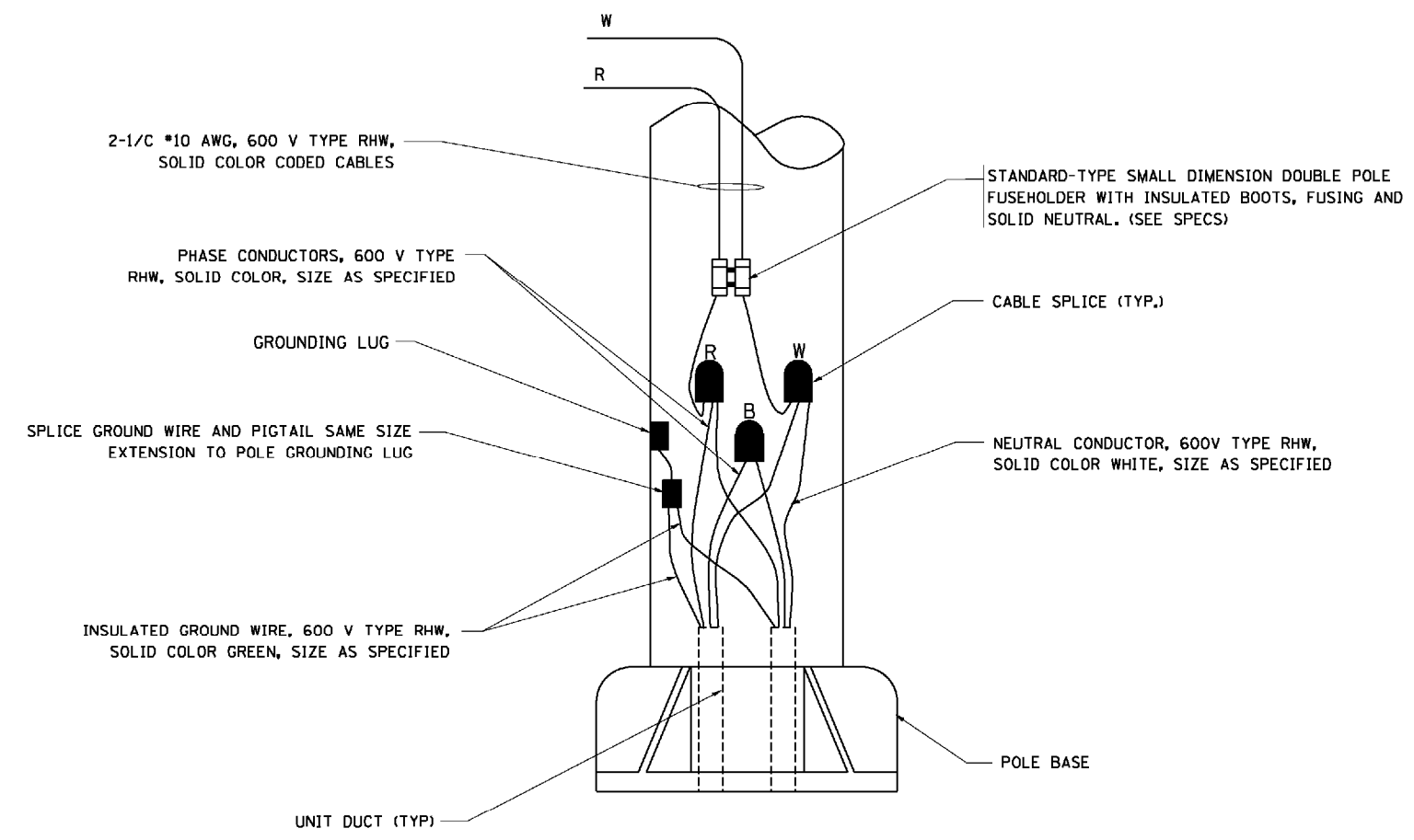
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	55
BE-505			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

FILE NAME =
W:\d\stata\22x34\be702.dgn

USER NAME = geglienobt
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

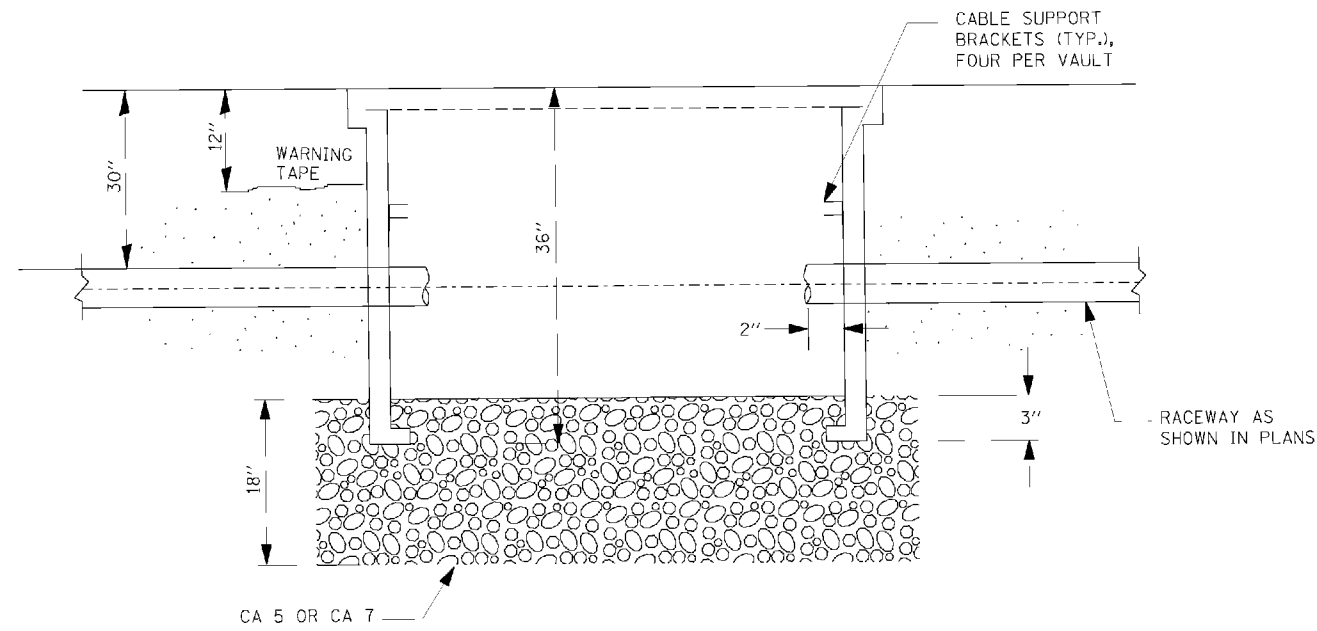
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

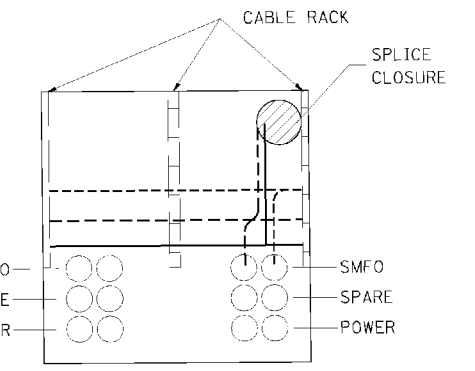
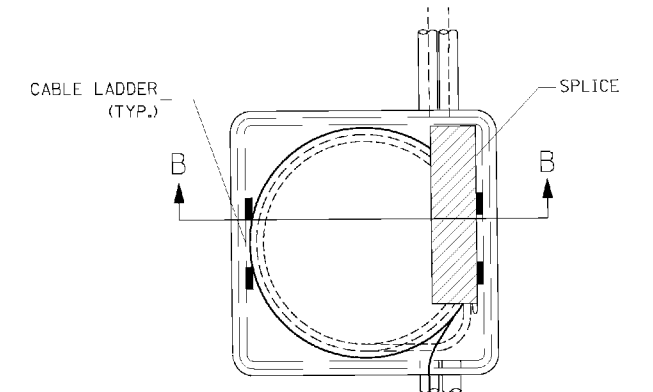
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

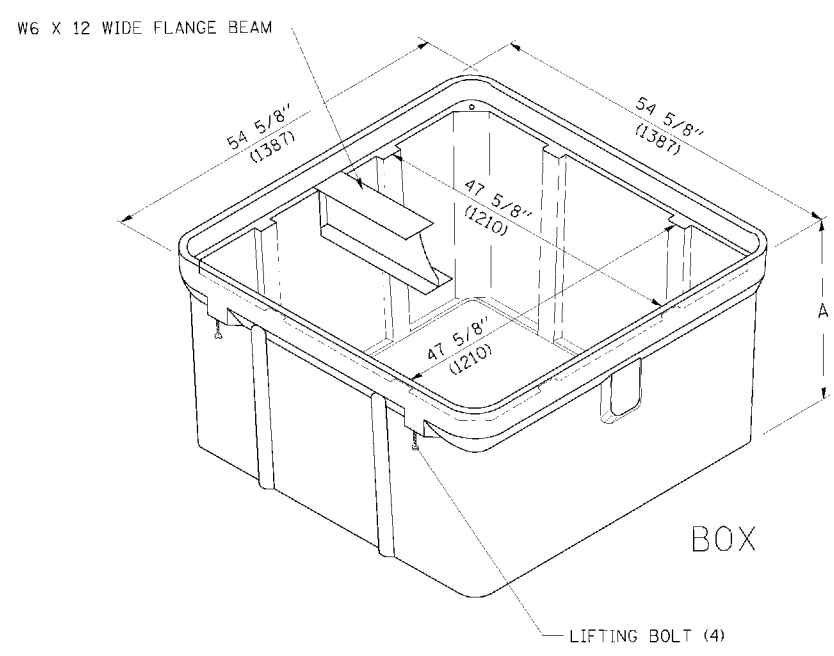
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	56
BE-702			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



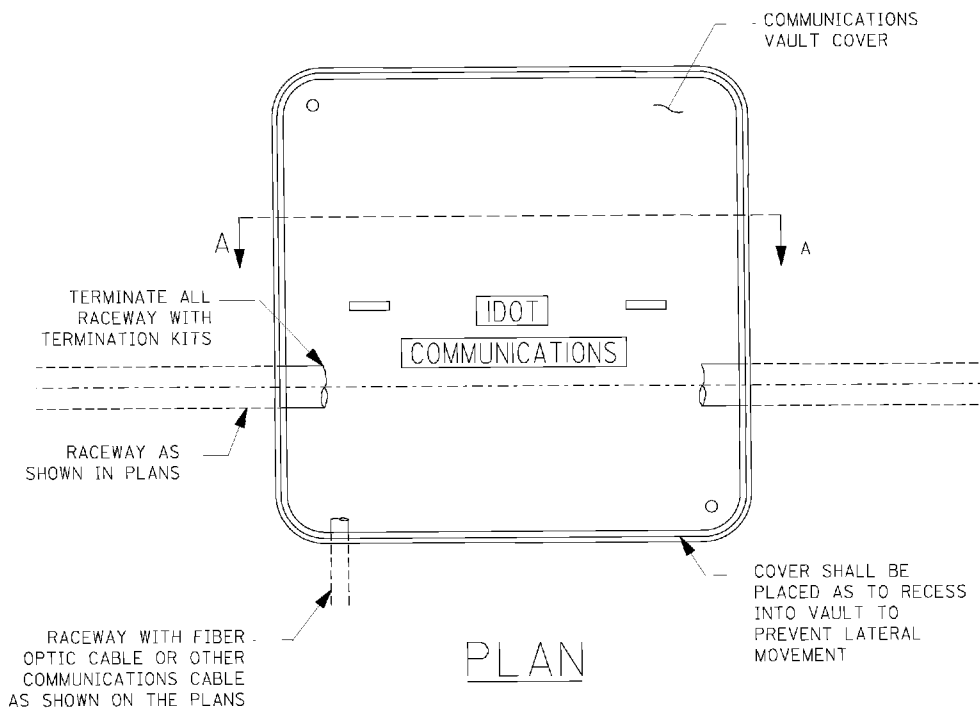
SECTION A-A



SECTION B-B



ISOMETRIC



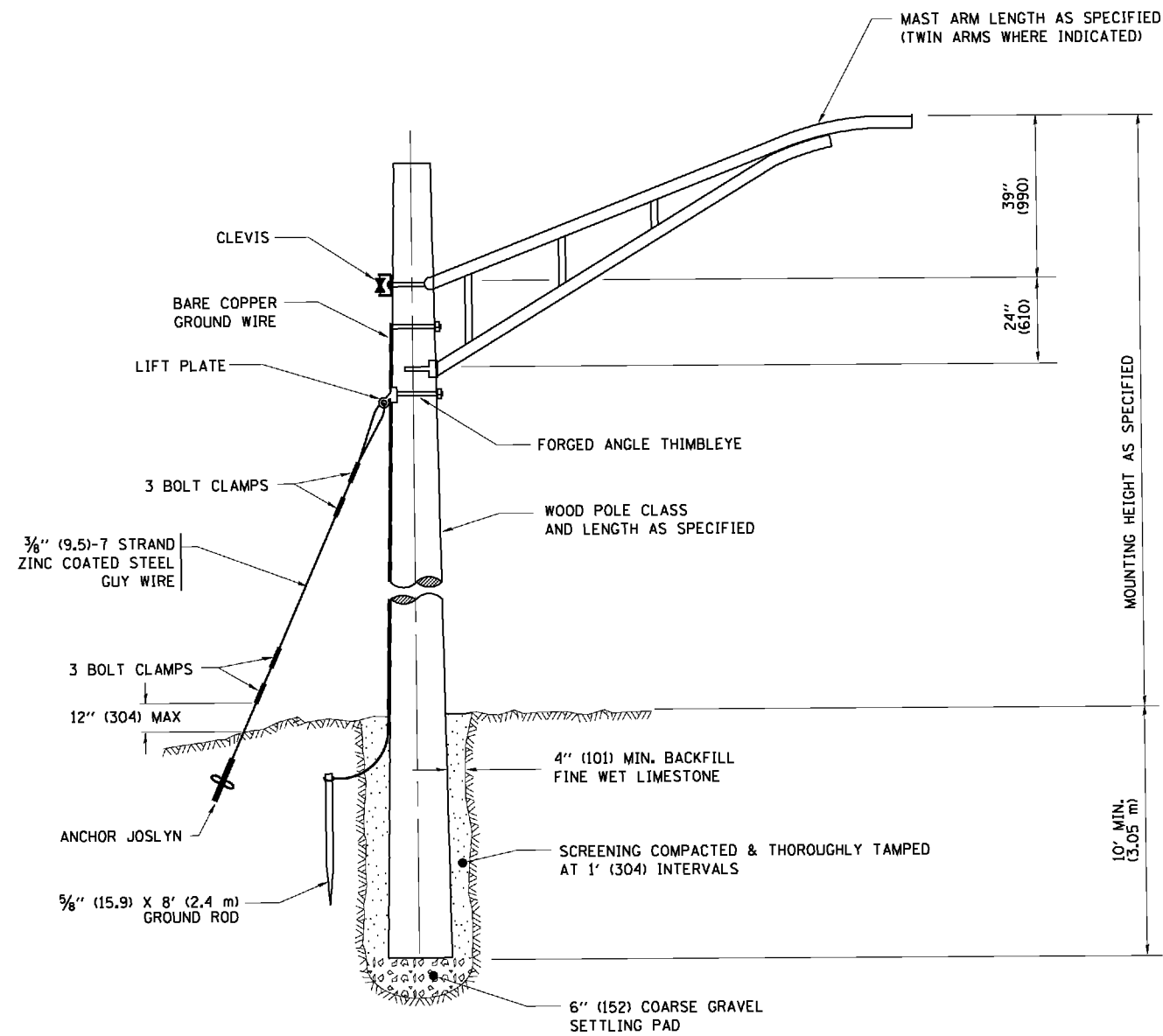
PLAN

NOTES:

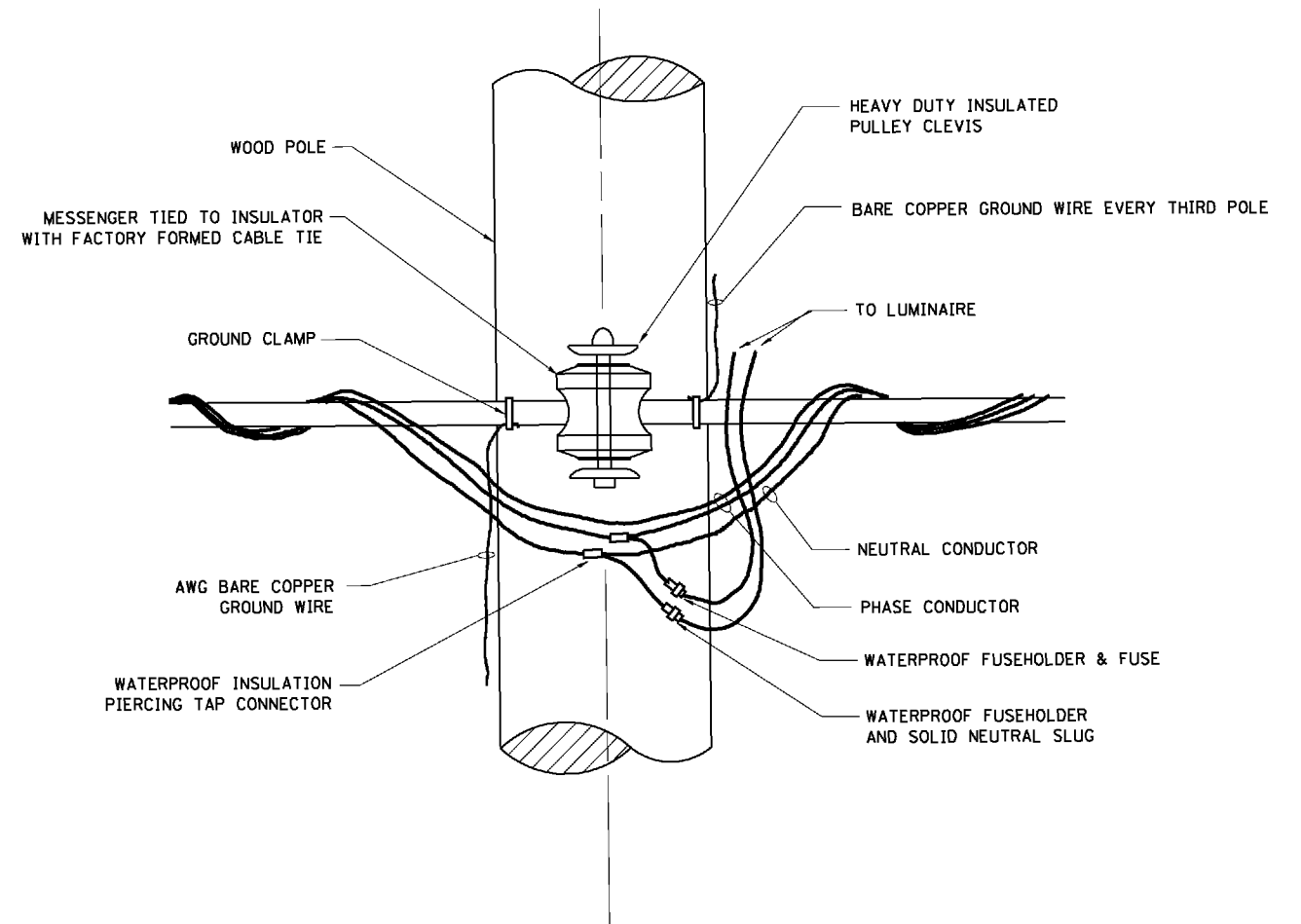
1. BOX SHALL HAVE AN OPEN BASE.
2. COVER SHALL WITHSTAND A 22,500/33,750 DESIGN/TEST LOADING AND SHALL LOCK.
3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

\\\usr202\publi\ca\paco\10001384\0016.dwg - mact\design\kds\112344-6-14-08-11-high-way-department-06-05-communications-vault.dwg

ENGINEERING CONSULTANT CONSULTING ENGINEERS 107 North Chestnut Avenue, Suite 100 St. Louis, MO 63108 Tel: 314.778.4014 Fax: 314.778.4014	USER: NPH PLOT SCALE: EG.0000 PLOT DATE: 3/22/2010	DESIGNED: _____ DRAWN: _____ CHECKED: _____ DATE: 03-22-10	REVISED: _____ REVISED: _____ REVISED: _____ REVISED: _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMUNICATIONS VAULT, COMPOSITE CONCRETE SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	F.A. I. RTE. 80 SECTION 2011-046-L COUNTY WILL TOTAL SHEETS 106 SHEET NO. 57 BE-705 CONTRACT NO. 60P56 FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT
--	--	---	--	---	---	--



TEMPORARY LIGHT POLE DETAIL

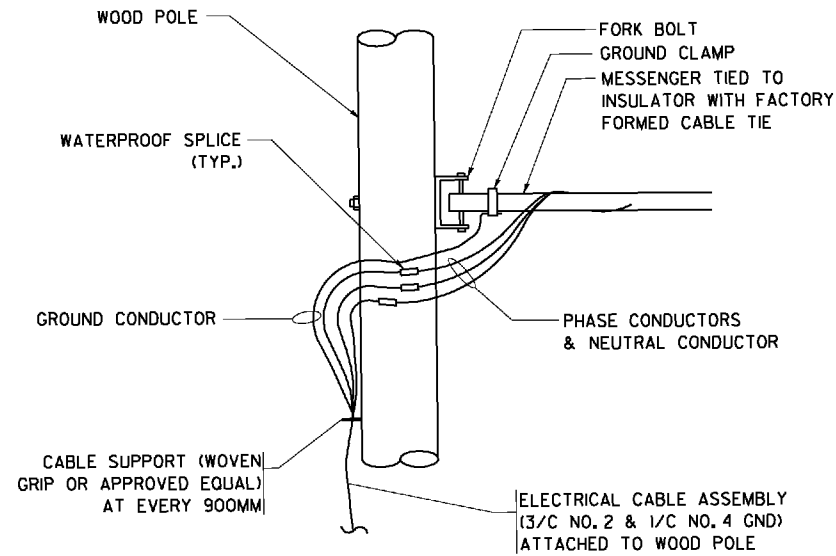


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

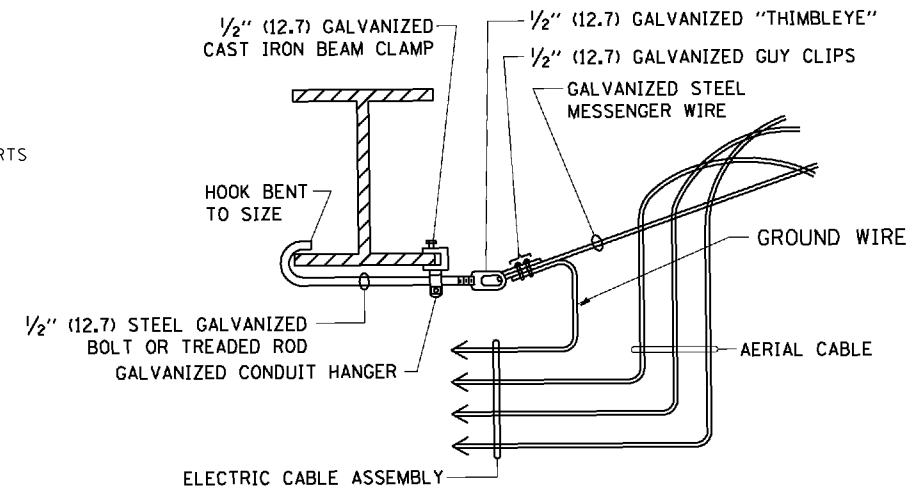
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

<p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 1007 North Chestnut Avenue, Suite 100 St. Louis, MO 63108 Tel: 314.778.4000 Fax: 314.778.4014</p>	USER NAME = geglennob	DESIGNED -	REVISED - 08-08-03	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TEMPORARY LIGHT POLE DETAILS</p>		F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000 1/ IN.	DRAWN -	REVISED -				80	2011-046-L	WILL	106	58
PLOT DATE = 1/4/2008	CHECKED -	REVISED -					BE-800		CONTRACT NO. 60P56		
	DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

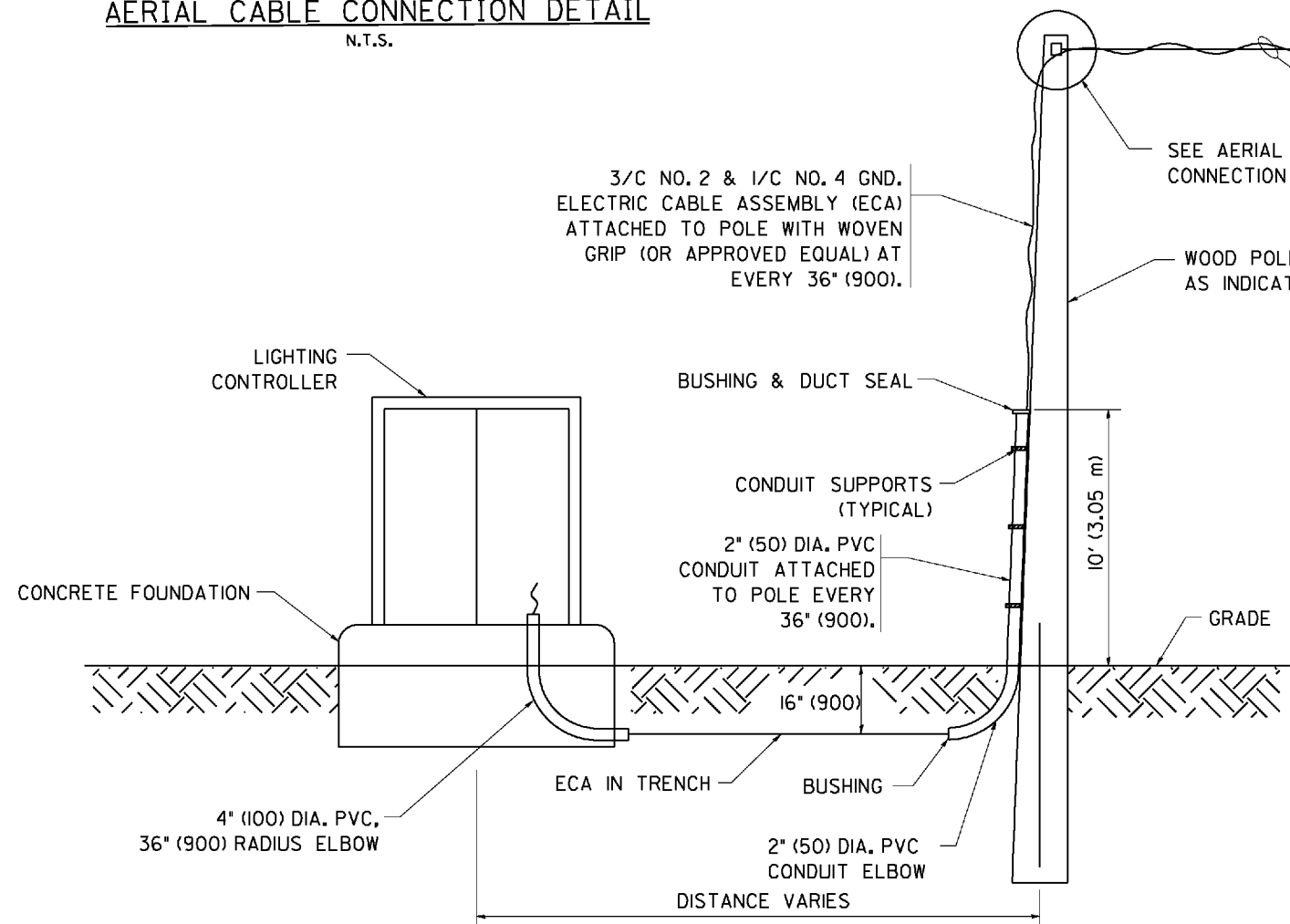


AERIAL CABLE CONNECTION DETAIL
N.T.S.

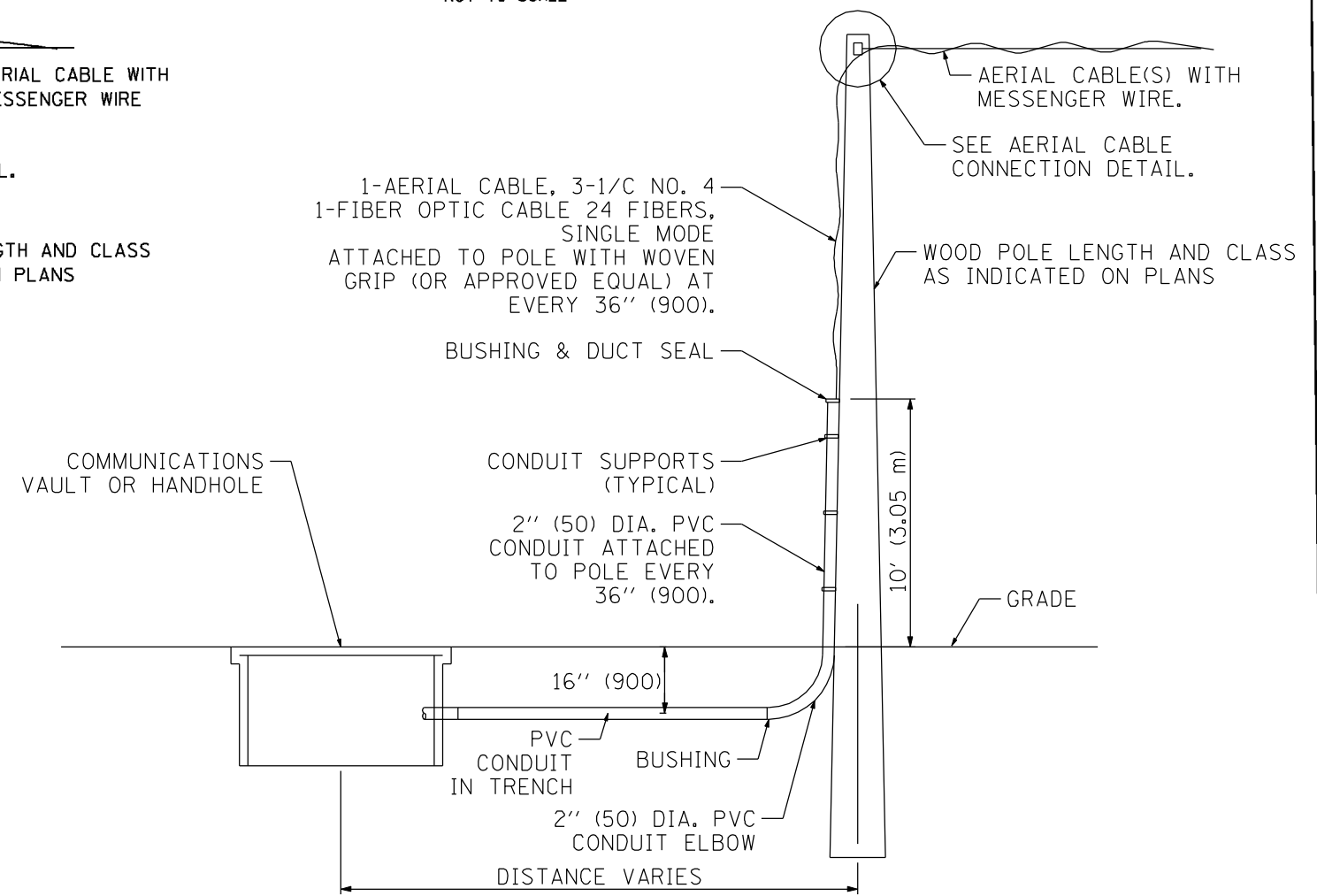
- NOTES:**
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING
 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.



WOOD POLE TO COMMUNICATIONS VAULT OR HANDHOLE WIRING CONNECTION DETAIL
N.T.S.

	ENGINEERING CONSULTANT	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING TEMPORARY AERIAL CABLE INSTALLATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = geglennob	DRAWN -	REVISED -			80	2011-046-L	WILL	106	59
	PLOT SCALE = 50,000 1/4 IN.	CHECKED -	REVISED -			CONTRACT NO. 60P56				
	PLOT DATE = 1/4/2008	DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.										

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		W/O TSC CABINET 55	
TRUNK CABLE DESIGNATION		TCF-IE-12		DESTINATION		E/O TSC CABINET 41	
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1		SLATE	Blue	49	
	Orange	2			Orange	50	
	Green	3			Green	51	
	Brown	4			Brown	52	
	Slate	5			Slate	53	
	White	6			White	54	
	Red	7			Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10			Violet	58	
	Rose	11			Rose	59	
	Aqua	12			Aqua	60	
ORANGE	Blue	1	13	WHITE	Blue	61	
	Orange	2	14		Orange	62	
	Green	3	15		Green	63	
	Brown	4	16		Brown	64	
	Slate	5	17		Slate	65	
	White	6	18		White	66	
	Red	7	19		Red	67	
	Black	8	20		Black	68	
	Yellow	9	21		Yellow	69	
	Violet	10	22		Violet	70	
	Rose	11	23		Rose	71	
	Aqua	12	24		Aqua	72	
GREEN	Blue	1	25	RED	Blue	73	
	Orange	2	26		Orange	74	
	Green	3	27		Green	75	
	Brown	4	28		Brown	76	
	Slate	5	29		Slate	77	
	White	6	30		White	78	
	Red	7	31		Red	79	
	Black	8	32		Black	80	
	Yellow	9	33		Yellow	81	
	Violet	10	34		Violet	82	
	Rose	11	35		Rose	83	
	Aqua	12	36		Aqua	84	
BROWN	Blue	1	37	BLACK	Blue	85	
	Orange	2	38		Orange	86	
	Green	3	39		Green	87	
	Brown	4	40		Brown	88	
	Slate	5	41		Slate	89	
	White	6	42		White	90	
	Red	7	43		Red	91	
	Black	8	44		Black	92	
	Yellow	9	45		Yellow	93	
	Violet	10	46		Violet	94	
	Rose	11	47		Rose	95	
	Aqua	12	48		Aqua	96	

\\vr202\public\proy\0003384\0006_high_mast\design\detail\3384_6_US30_High_Mast_detail-be2100-Fiber_Assignments_01.dgn

USER NAME = rredo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
TRUNK CABLE FIBER ASSIGNMENTS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	60
BE-2100		CONTRACT NO.	60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION		W/O TSC CABINET 55	
DISTRIBUTION CABLE DESIGNATION		DCF-1E-12		DESTINATION		E/O TSC CABINET 41	
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1		SLATE	Blue	49	
	Orange	2			Orange	50	
	Green	3			Green	51	
	Brown	4			Brown	52	
	Slate	5			Slate	53	
	White	6			White	54	
	Red	7			Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10			Violet	58	
	Rose	11			Rose	59	
	Aqua	12			Aqua	60	
ORANGE	Blue	1	13	WHITE	Blue	61	
	Orange	2	14		Orange	62	
	Green	3	15		Green	63	
	Brown	4	16		Brown	64	
	Slate	5	17		Slate	65	
	White	6	18		White	66	
	Red	7	19		Red	67	
	Black	8	20		Black	68	
	Yellow	9	21		Yellow	69	
	Violet	10	22		Violet	70	
	Rose	11	23		Rose	71	
	Aqua	12	24		Aqua	72	
GREEN	Blue	1	25	RED	Blue	73	
	Orange	2	26		Orange	74	
	Green	3	27		Green	75	
	Brown	4	28		Brown	76	
	Slate	5	29		Slate	77	
	White	6	30		White	78	
	Red	7	31		Red	79	
	Black	8	32		Black	80	
	Yellow	9	33		Yellow	81	
	Violet	10	34		Violet	82	
	Rose	11	35		Rose	83	
	Aqua	12	36		Aqua	84	
BROWN	Blue	1	37	BLACK	Blue	85	
	Orange	2	38		Orange	86	
	Green	3	39		Green	87	
	Brown	4	40		Brown	88	
	Slate	5	41		Slate	89	
	White	6	42		White	90	
	Red	7	43		Red	91	
	Black	8	44		Black	92	
	Yellow	9	45		Yellow	93	
	Violet	10	46		Violet	94	
	Rose	11	47		Rose	95	
	Aqua	12	48		Aqua	96	

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
DISTRIBUTION CABLE FIBER ASSIGNMENTS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	61
BE-2110		CONTRACT NO. 60P56		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12a		INTERCONNECT CABINET
FIBER NO	FUNCTION	CONNECTION
1		DCF-IE-06-
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12c		TSC CABINET 58
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12b		TSC CABINET 61
FIBER NO	FUNCTION	CONNECTION
1	CCTV IE22	DCF-IE-06-
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12d		TSC CABINET 59
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12b		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1	CCTV IE22	DCF-IE-06-
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12d		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12b		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1	CCTV IE22	DCF-IE-06-
2		
3		
4		
5		
6		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12d		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		

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USER NAME = rredo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SIX FIBER LATERAL CABLE FIBER ASSIGNMENTS**

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	62
BE-2120		CONTRACT NO. 60P56		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12e		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1	CCTV CAMERA IE23	DCF-IE-06-
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12g		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12f		TSC CABINET 57
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-IE-12h		CCTV CAMERA IE26C
FIBER NO	FUNCTION	CONNECTION
1	CCTV CAMERA IE23A	DCF-IE-06-
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

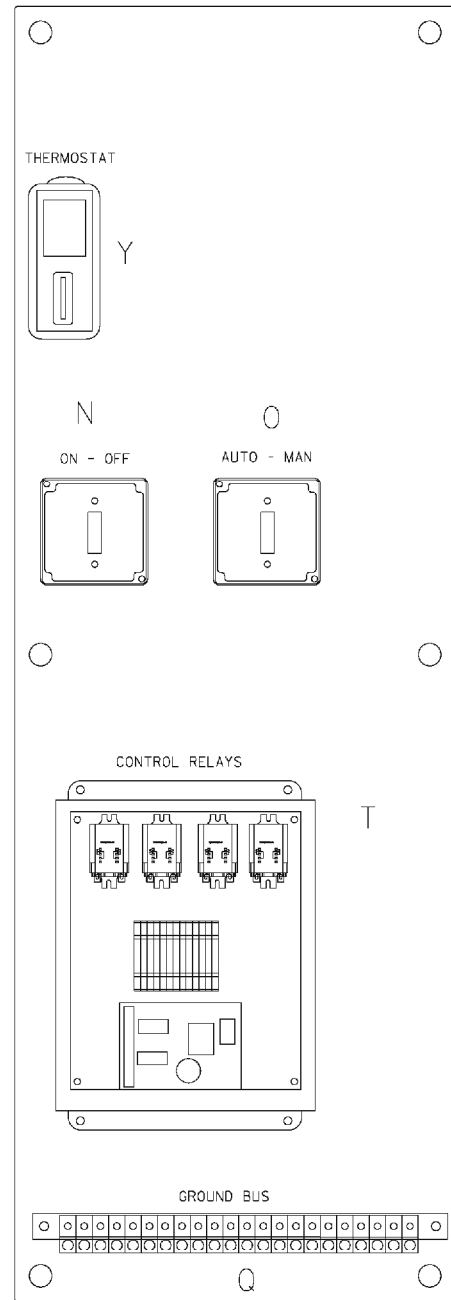
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

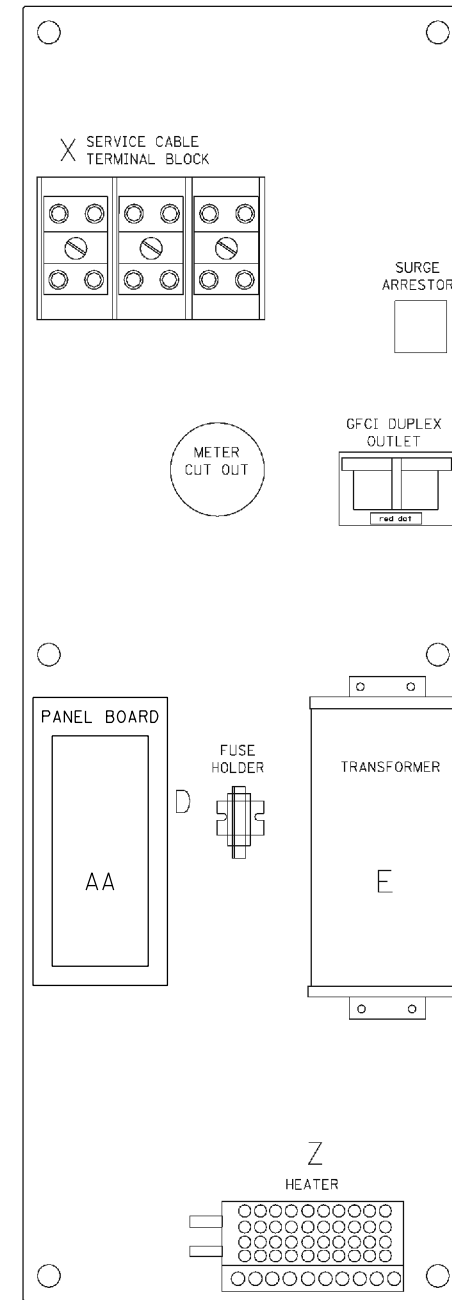
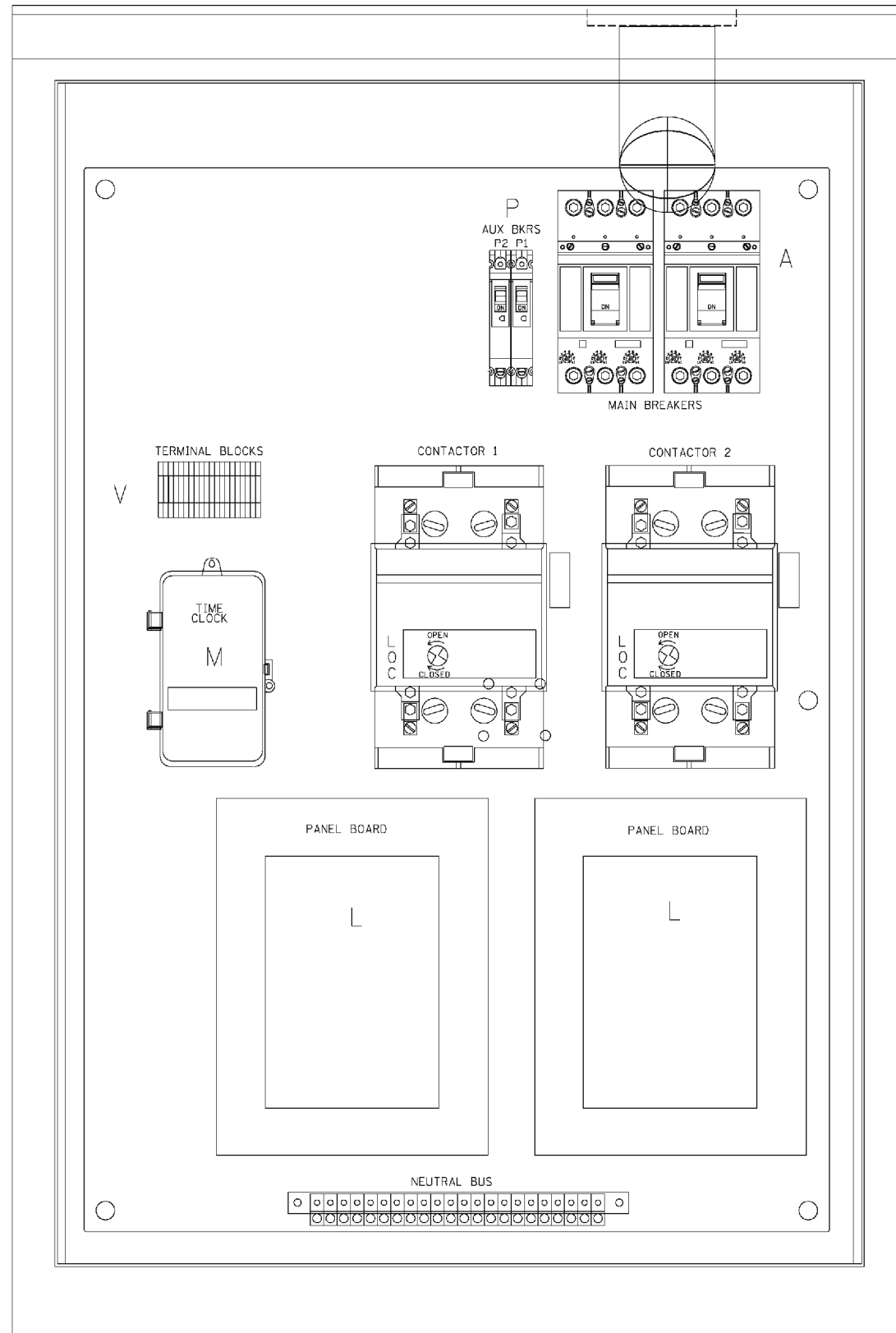
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	63
BE-2130		CONTRACT NO. 60P56		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEFT SIDE PANEL

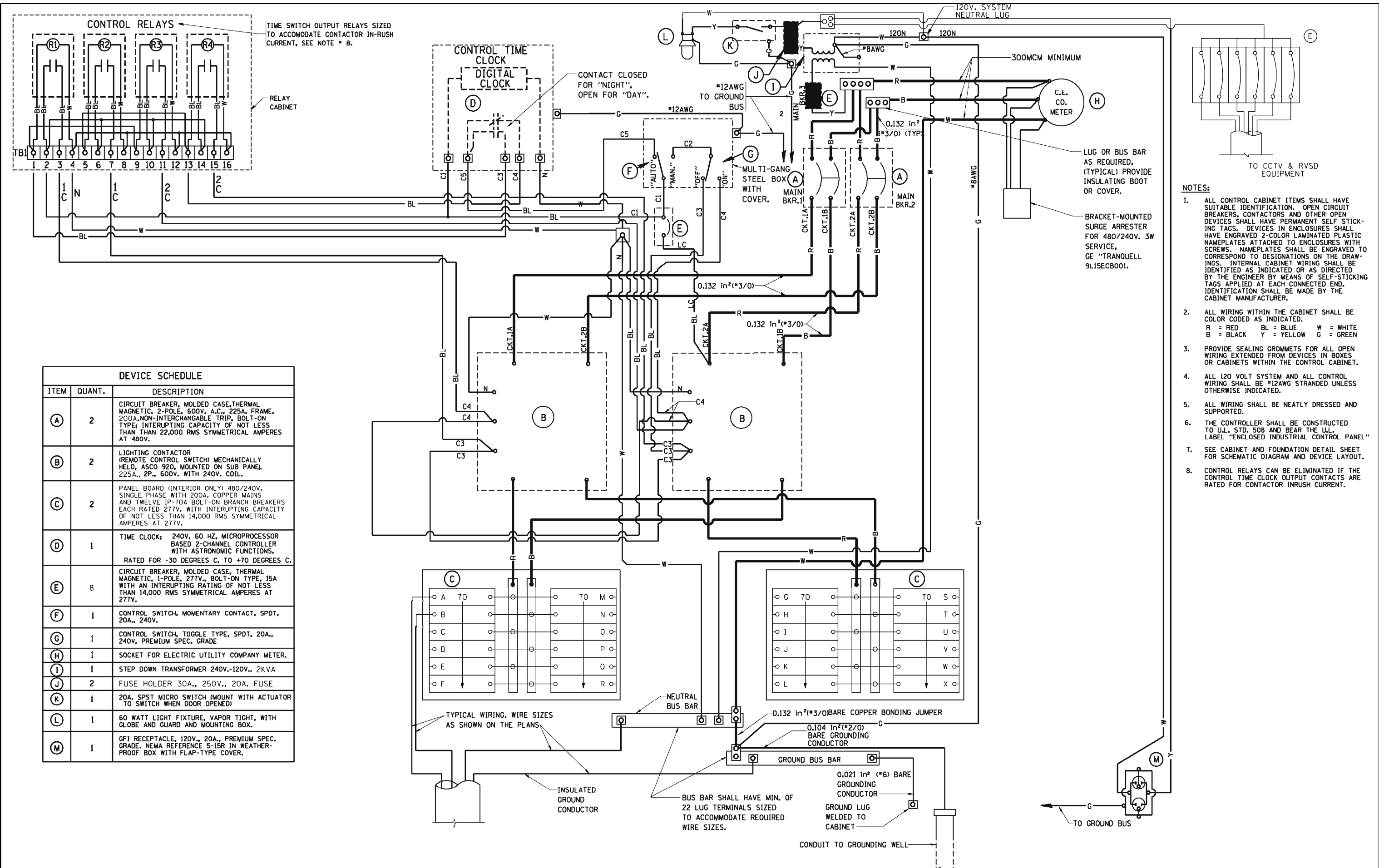


RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM #	QTY	DESCRIPTION
A	2	FXD62B200 BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
C1,C2 *	2	MECHANICAL CONTRACTOR 2 POLE 225 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	2 KVA 277V-240/120 TRANSFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12
V	24	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER
AA	1	PANEL BOARD 240/120V 1 PHASE, 100 AMP COPPER BUS

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

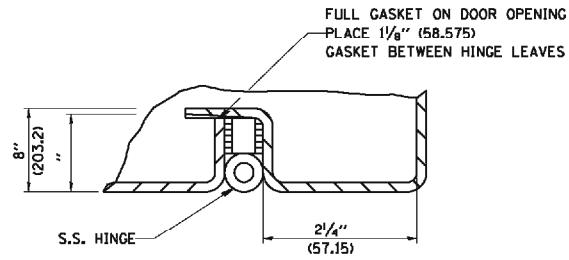
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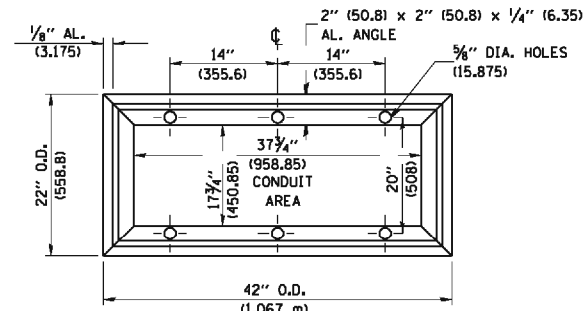
- NOTES:**
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
 - SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
 - CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A. FRAME, 200A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 225A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND TWELVE 1P-70A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	8	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15A WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 2KVA
(J)	2	FUSE HOLDER 30A., 250V., 20A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE. NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

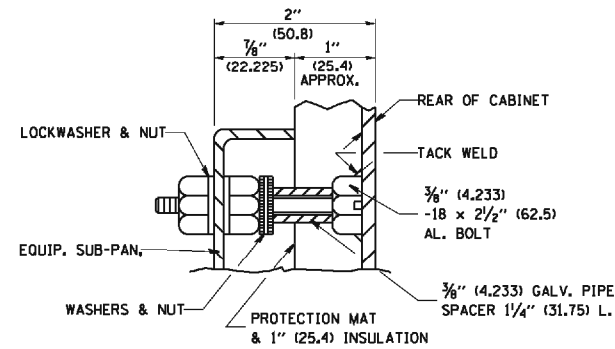
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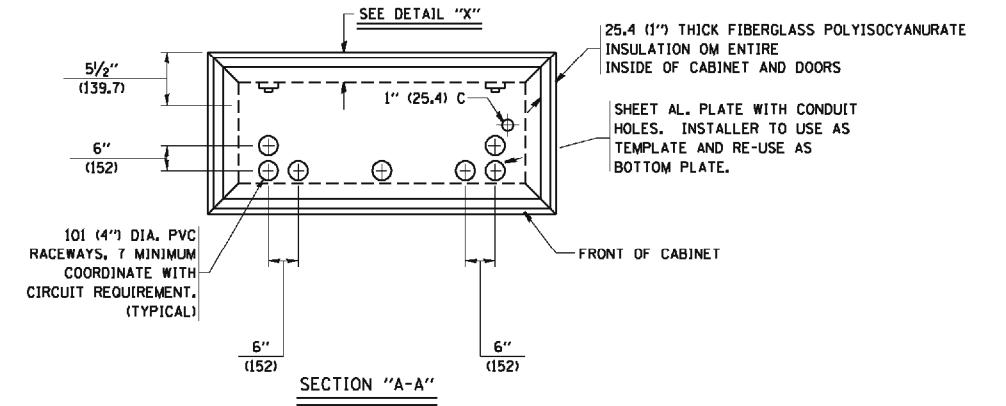
DETAIL "Y"



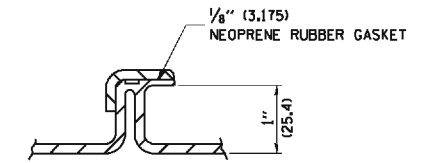
BASE MTG. DETAIL



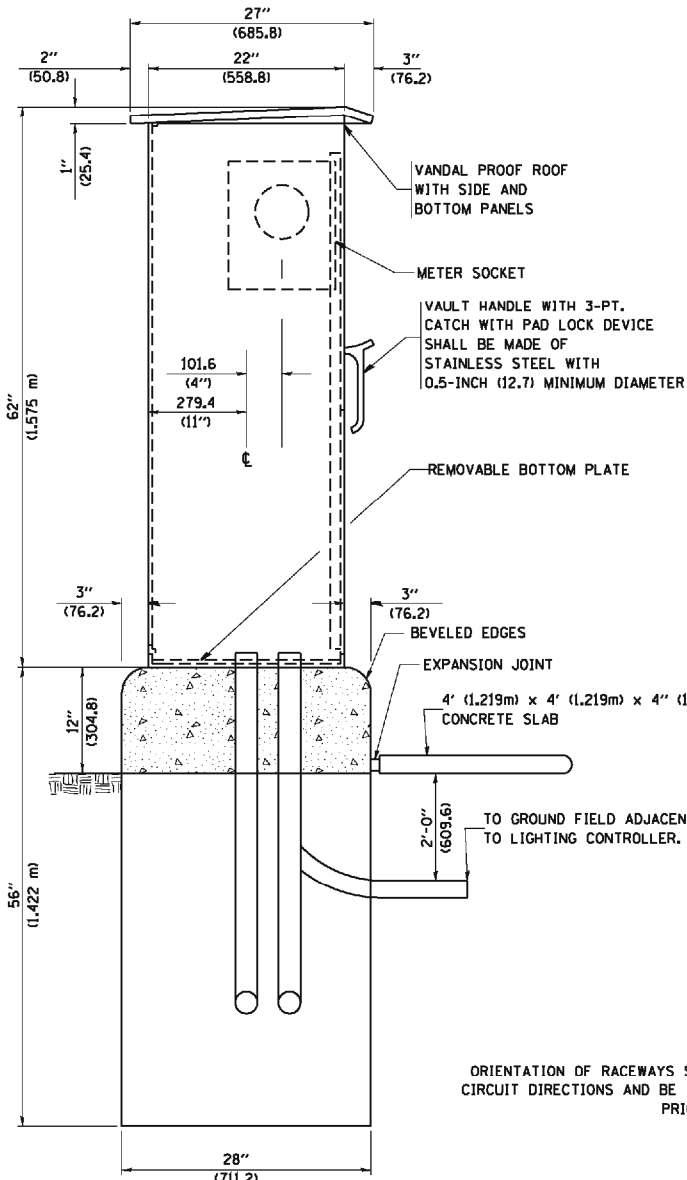
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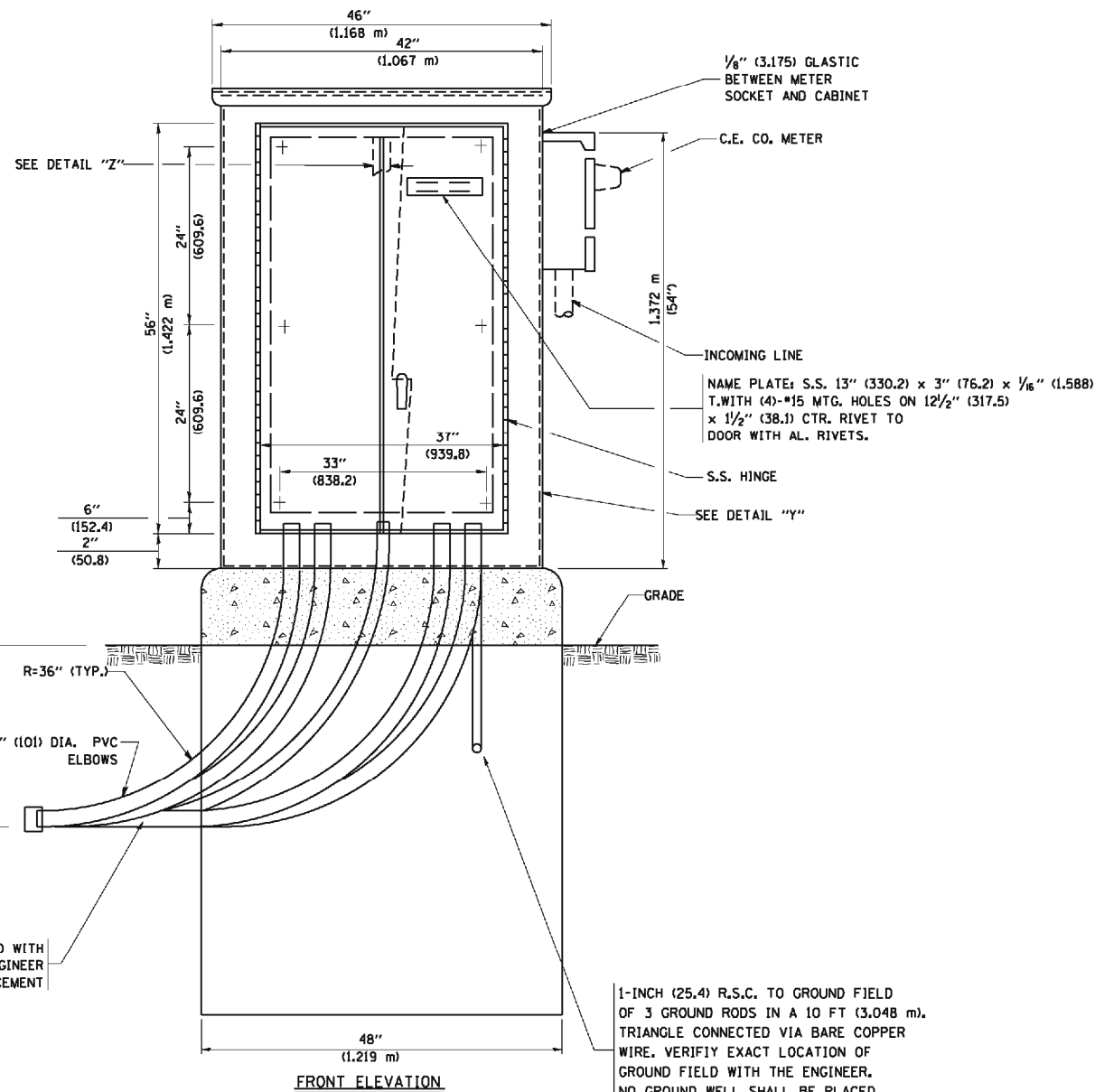
SECTION "A-A"



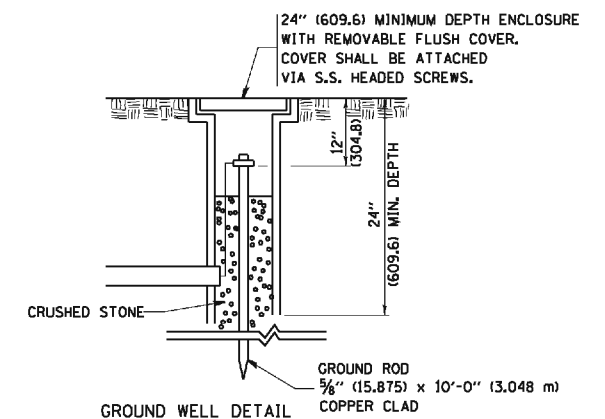
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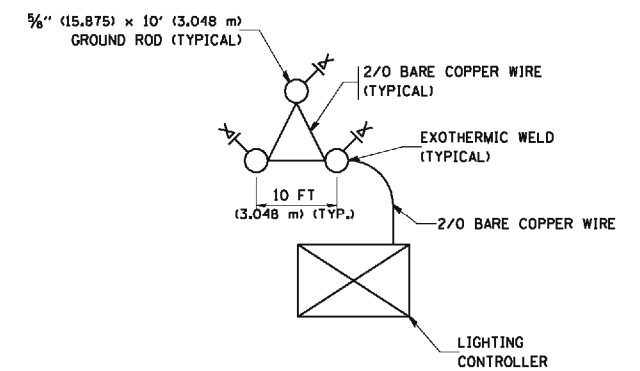
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

1-INCH (25.4) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m) TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHTING CONTROLLER, BASE MOUNTED,
480 VOLT, 200AMP (DUAL)



USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 2.0000" / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 3/22/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

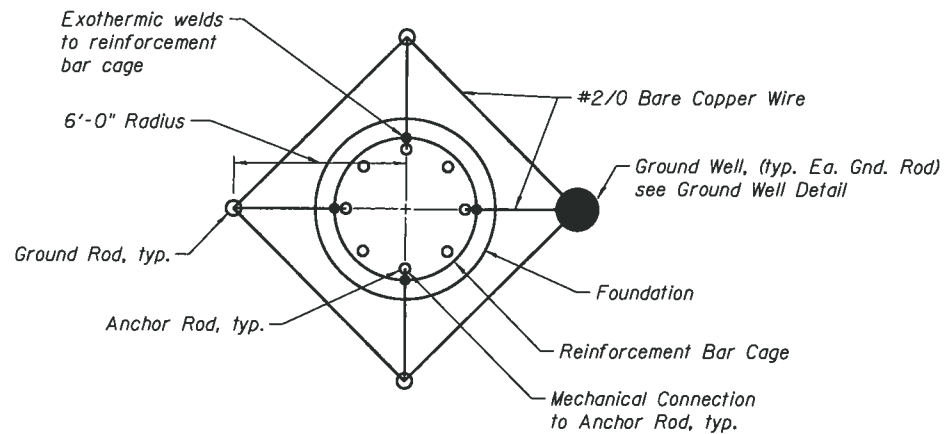
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NOTES

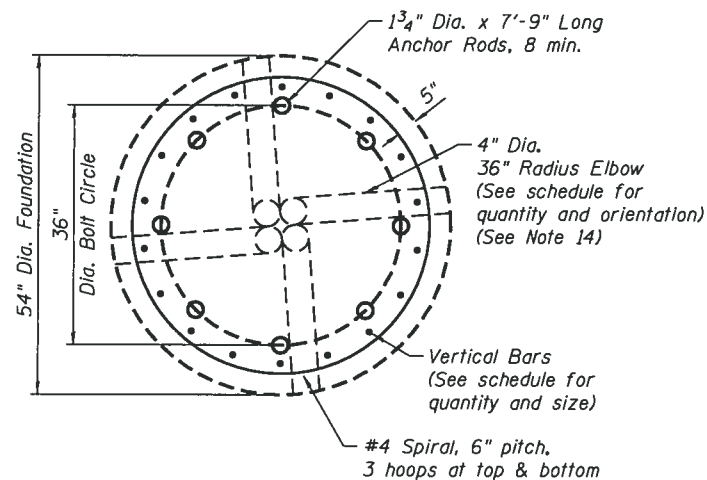
1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK; "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.
12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13. BUS BAR SHALL HAVE 36 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 - R - RED Y - YELLOW
 - B - BLACK W - WHITE
 - BL - BLUE G - GREEN
19. ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.
21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
22. THE CONTRACTOR MAY PROPOSE AN ALTERNATE CABINET SIZE TO ALLOW FOR ADEQUATE SPACING OF INTERNAL COMPONENTS.

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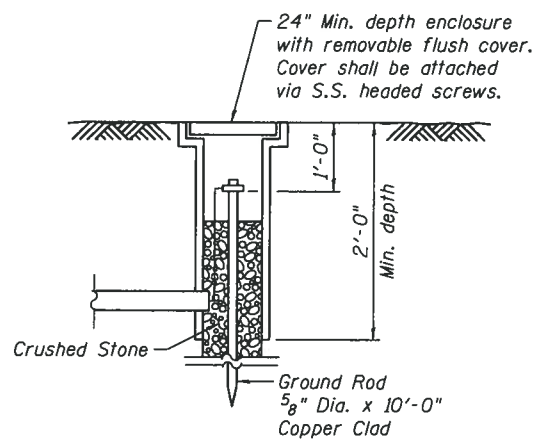
 ENGINEERING CONSULTANT Ciorba Group, Inc. CONSULTING ENGINEERS 8007 North Cumberland Avenue, Suite 402 Chicago, Illinois 60638 Tel. 773.778.4008 Fax 773.778.4914 Email: ciorba@ciorba.com	USER NAME = jvondra	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200AMP (DUAL)	F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000" / IN.	DRAWN - RJR	REVISED -			80	2011-046-L	WILL	106	67
	PLOT DATE = 3/22/2012	CHECKED - JMV	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60P56				
						ILLINOIS FED. AID PROJECT				



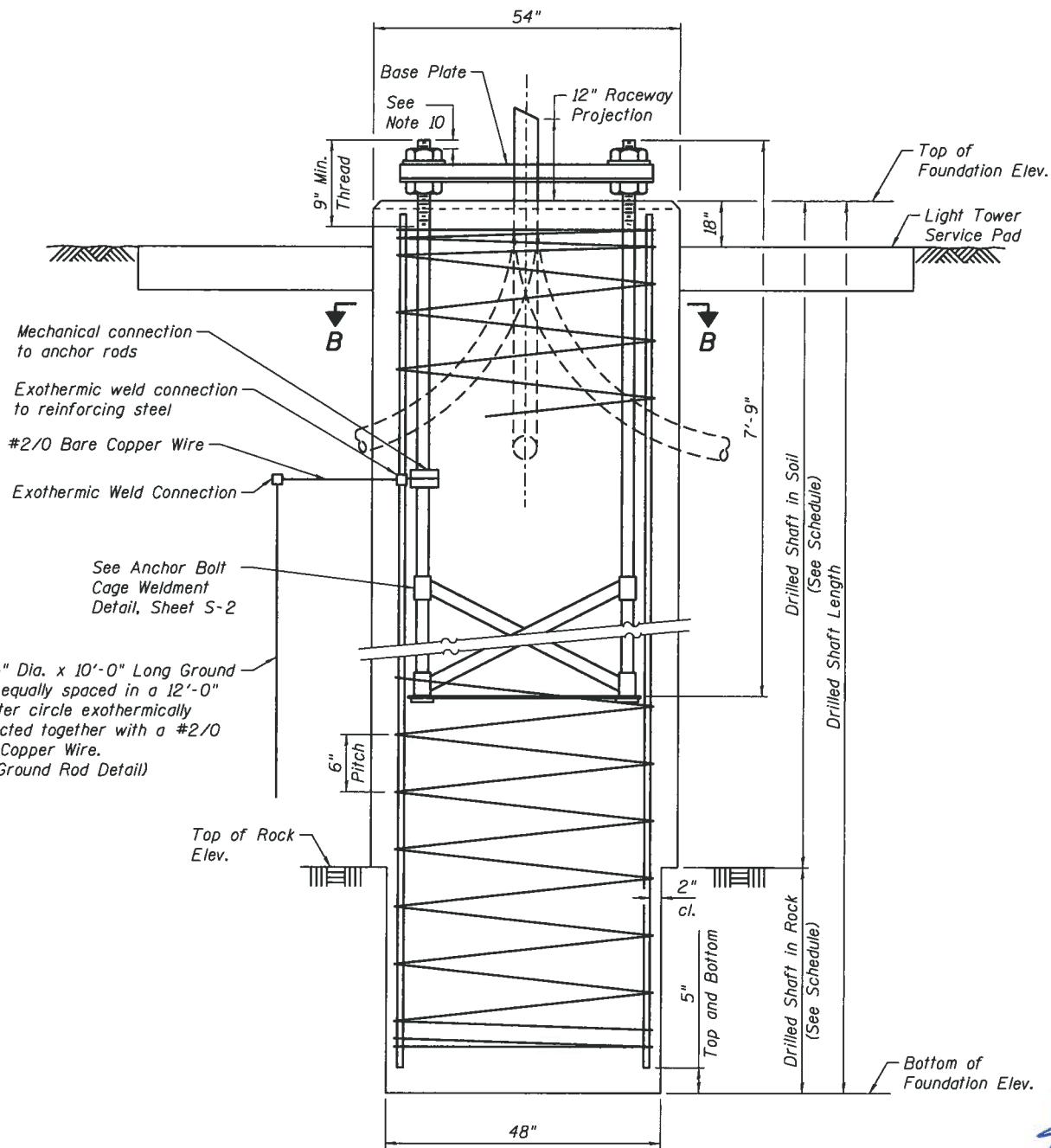
GROUND ROD DETAIL



SECTION B-B



GROUND WELL DETAIL

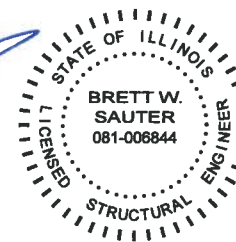


FOUNDATION ELEVATION

NOTES:

1. The anchor rods shall be vertical. No adjustment shall be allowed after the foundation is placed.
2. The gap between the foundation and the base plate shall be enclosed with a stainless steel screen fastened with a stainless steel band.
3. The top of the foundation to 18" below grade shall be formed.
4. Surface water will not be permitted to enter the hole and all water which may have infiltrated into the hole shall be removed before placing concrete.
5. The light tower shall not be erected until after the concrete has been cured according to Article 1020.13.
6. Anchor Rods shall be straight and shall be according to AASHTO M 314 or ASTM F1554, Grade 725 (Grade 105) and Galvanized according to Article 1006.09.
7. Anchor Rod information shall be submitted for approval and shall be fully coordinated for approval with tower manufacturer requirements.
8. Reinforcement bars shall be according to Article 1006.10.
9. Two Anchor Rods opposite each other shall have the anchor rod threads peened after nuts are installed.
10. A minimum of three full threads shall remain exposed after light tower is installed.
11. All grounding indicated in the plans shall be included in the cost of the light tower foundation and shall not be paid for separately.
12. Cut nuts, or jam nuts, are not allowed.
13. Work this sheet with sheets S-2 and S-3.
14. Conduit Raceway Shall Extend 18" beyond the edge of Concrete Service Pad.
15. Splices for spiral reinforcement shall be lap spliced 2'-0" min. or welded.
16. The length of the vertical reinforcement bars shall be the Drilled Shaft Length minus 5".
17. If field conditions dictate a shorter Drilled Shaft Length than shown in the table, the Contractor shall cut reinforcement bars to the required length. If the Drilled Shaft Length is longer than indicated the Contractor may raise the bars a maximum of 2'-0" above the Bottom of Foundation Elevation. Lap Splices are required for length increases in excess of 2'-0". Cost included in the pay item for "Light Tower Foundation".

Brett W. Sauter



DATE: 2/13/2012
SEAL EXPIRES: 11/30/2012

NA:PROJ\08093384-00\6_High_Mast_Light_Tower.dgn



USER NAME = rdanley	DESIGNED - SMY	REVISED -
PLOT SCALE = 0:2.0000 1' / 1in.	CHECKED - BWS	REVISED -
PLOT DATE = 2/13/2012	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

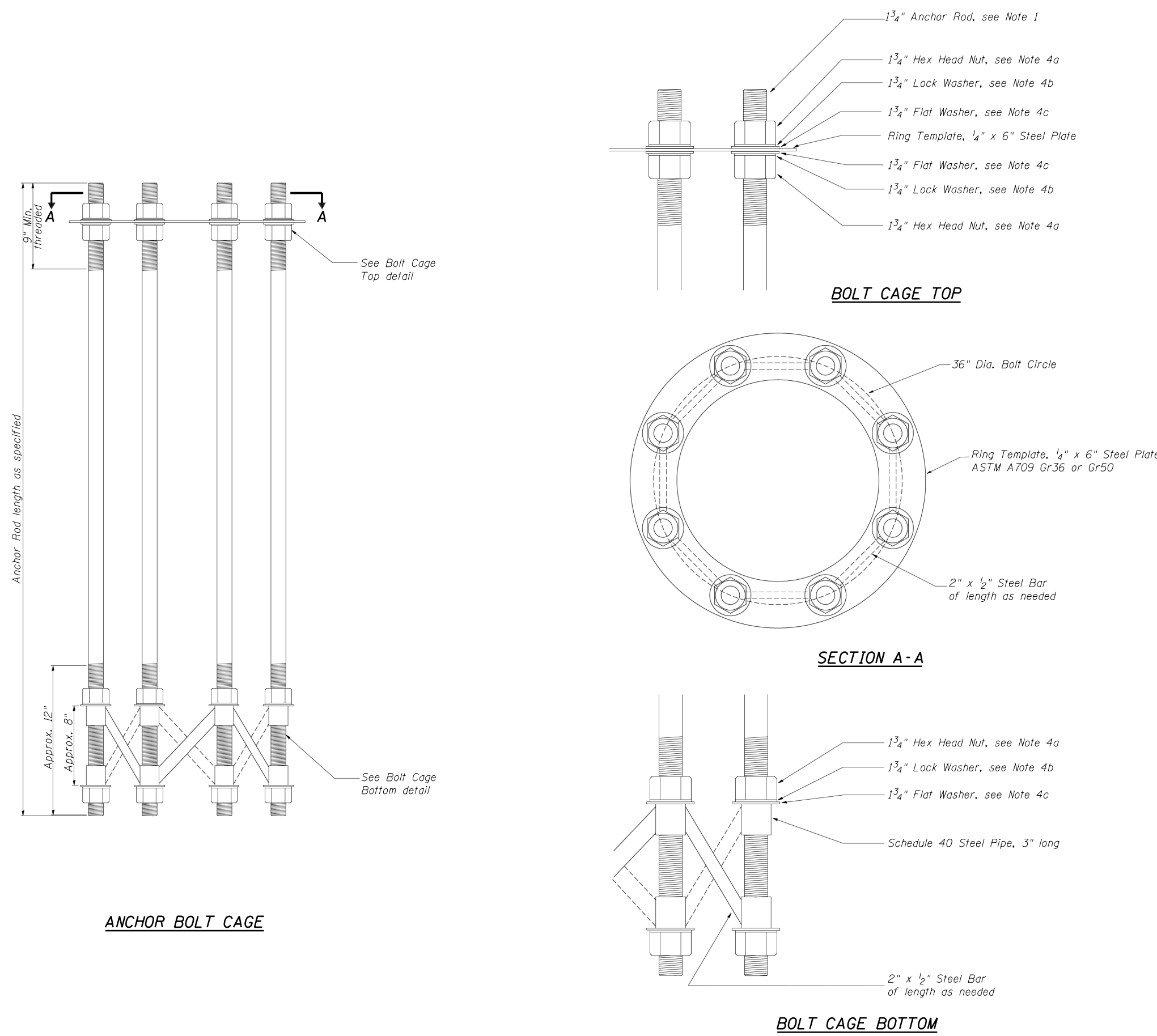
F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER FOUNDATION, 54" DIAMETER

SHEET NO. S-1 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	68
				CONTRACT NO. 60P56

ILLINOIS FED. AID PROJECT

N:\PROJECTS\003384\006_High_Mast_Design\Structural\CAD\0003384_06_02_High_Mast_Light_Tower_2.dgn



NOTES

- Anchor Rods shall be straight and shall be according to AASHTO M 314 or ASTM F1554, Grade 725 (Grade 105) and Galvanized according to Article 1006.09.
- Anchor Rod information shall be submitted for approval and shall be fully coordinated with tower manufacturers requirements.
- Cut nuts, or jam nuts, are not allowed.
- Anchor Rod Cage hardware shall be in accordance with the following:
 - 1 3/4" Hex Head Nuts
AASHTO M291, Grade C, C3, D, DH or DH3
Hot Dipped Galvanized AASHTO M 232
 - 1 3/4" Helical Lock Washers
ANSI/ASME B18.21.1
I.D. 1.758 - 1.778
O.D. 2.596 Max.
Width 0.383 Min.
Thickness 0.469 Min.
Hardness 26 - 45 Rockwell C.
Hot Dipped Galvanized AASHTO M 232
 - 1 3/4" Flat Washers
AASHTO M 293
O.D. 3.25
I.D. 1.875
Thickness 0.16 - 0.25
Hardness 26 - 45 Rockwell C.
Hot Dipped Galvanized AASHTO M 232
- The shaft lengths shall be based on soil borings in the plans. If different soils are encountered, the Engineer shall be notified to provide a revised length.
- All foundation reinforcement steel shall be epoxy coated.
- The foundation shall be poured monolithically and shall have no construction joints.



USER NAME = rdenley	DESIGNED - SMY	REVISED -
	CHECKED - BWS	REVISED -
PLOT SCALE = 0:2.0000 '1" / 1"	DRAWN - RD	REVISED -
PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER FOUNDATION, 54" DIAMETER**

SHEET NO. S-2 OF S-17 SHEETS

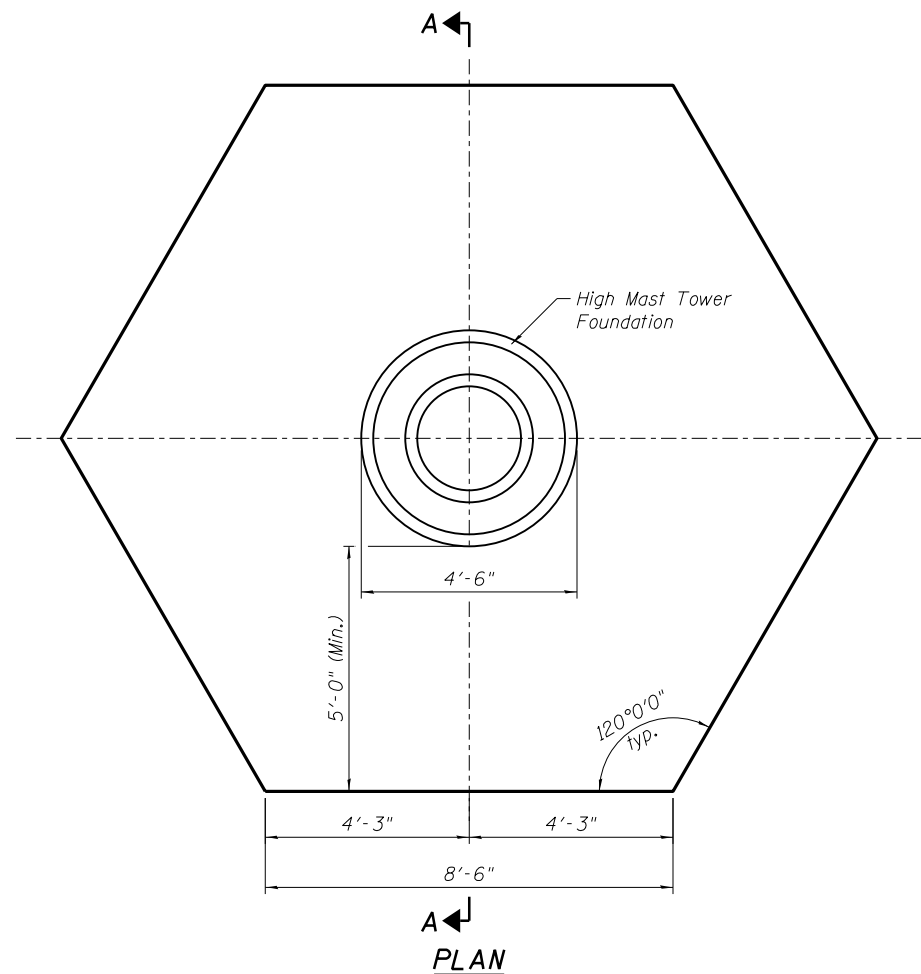
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	69
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	

N:\PROJECTS\0003384\006_High_Mast_Design\Structural\CAD\0003384_06_03_Foundation_Tables.dgn

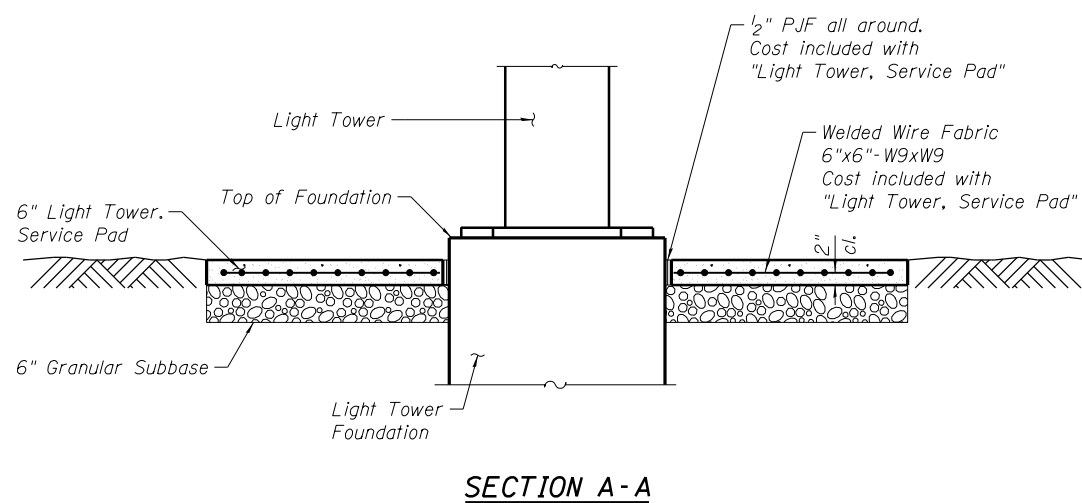
High Mast Tower ID	Drilled Shaft Schedule											Rod and Reinforcing Schedule						Conduit Schedule				Service Pad Type	Tower Height	Remarks		
	High Mast Tower Location			Top of Foundation Elevation	Bottom of Foundation Elevation	Drilled Shaft Length	Drilled Shaft In Soil	Drilled Shaft Diameter	Drilled Shaft in Rock	Rock Socket Diameter	Estimated Top of Rock Elevation	Rock Excavation for Structures	Anchor Rod Diameter	Anchor Rod Circle Diameter (Min)	Number and Size of Vertical Bar	Length of Vertical Bar	Spiral Diameter	*Length of Spiral	Number of 4 Inch Conduit Stubs							
	Roadway	Station	Offset																North	East	South				West	
AB2	I-80	640+00	100 RT	652.4	634.9	17'-6"	17'-6"	4'-6"	-	-	-	-	1 3/4"	3'-0"	18 - #11	16'-8"	#4	16'-8"	2	1		1	A	120		
EF2	I-80	643+50	100 LT	651.4	636.4	15'-0"	15'-0"	4'-6"	-	-	618.3	-	1 3/4"	3'-0"	18 - #11	14'-2"	#4	14'-2"		2	2	1		A	120	
AB1	I-80	647+25	115 RT	651.5	629.0	22'-6"	17'-5"	4'-6"	5'-1"	4'-0"	634.1	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	21'-8"	#4	21'-8"	2	1		1		A	120	
EF1	I-80	650+50	110 LT	649.1	631.1	18'-0"	10'-7"	4'-6"	7'-5"	4'-0"	638.5	4.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	17'-2"	#4	17'-2"		1	2	1		A	120	
CD4	I-80	654+00	115 RT	648.2	628.2	20'-0"	13'-8"	4'-6"	6'-4"	4'-0"	634.5	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	19'-2"	#4	19'-2"	2	1		1		A	120	
GH3	I-80	657+10	103.5 LT	635.1	620.1	15'-0"	6'-2"	4'-6"	8'-10"	4'-0"	628.9	5.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	14'-2"	#4	14'-2"			3			A	120	
CD3	I-80	660+80	120 RT	637.5	627.0	10'-6"	2'-0"	4'-6"	8'-6"	4'-0"	635.5	4.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	9'-8"	#4	9'-8"	5					A	120	
GH2	I-80	664+00	125 LT	642.9	629.9	13'-0"	4'-4"	4'-6"	8'-8"	4'-0"	638.6	5.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	12'-2"	#4	12'-2"		1	2	1		A	120	
CD2	I-80	667+00	100 RT	640.9	623.4	17'-6"	10'-5"	4'-6"	7'-1"	4'-0"	630.5	4.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	16'-8"	#4	16'-8"	2		2			A	120	
GH1	I-80	669+00	140 LT	634.5	616.5	18'-0"	10'-8"	4'-6"	7'-4"	4'-0"	623.8	4.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	17'-2"	#4	17'-2"	1	2	1			A	120	
CD1	I-80	671+30	130 RT	637.3	615.8	21'-6"	16'-5"	4'-6"	5'-1"	4'-0"	620.9	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	20'-8"	#4	20'-8"			2	2		A	120	
IJ1	I-80	671+69	94 LT	645.7	612.7	33'-0"	28'-0"	4'-6"	5'-0"	4'-0"	617.7	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	32'-2"	#4	32'-2"		4				B	120	
MN1	I-80	675+50	115 RT	620.7	597.7	23'-0"	16'-11"	4'-6"	6'-1"	4'-0"	603.8	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	22'-2"	#4	22'-2"		1		2		A	140	
KL1	I-80	678+50	86 LT	645.6	628.1	17'-6"	17'-6"	4'-6"	-	-	-	-	1 3/4"	3'-0"	18 - #11	16'-8"	#4	16'-8"		3				B	120	
MN2	I-80	707+00	83 RT	647.7	630.2	17'-6"	17'-6"	4'-6"	-	-	-	-	1 3/4"	3'-0"	18 - #11	16'-8"	#4	16'-8"				3		B	120	
KL2	I-80	710+00	83 LT	643.6	630.1	13'-6"	13'-6"	4'-6"	-	-	-	-	1 3/4"	3'-0"	18 - #11	12'-8"	#4	12'-8"		5				B	120	
KL3	I-80	713+65	79 LT	640.5	623.0	17'-6"	17'-6"	4'-6"	-	-	-	-	1 3/4"	3'-0"	18 - #11	16'-8"	#4	16'-8"		3				B	120	
IJ3	RAMP AD	20+00	60 RT	629.0	614.5	14'-6"	5'-7"	4'-6"	8'-11"	4'-0"	623.4	5.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	13'-8"	#4	13'-8"		3				C	120	
QR1	RAMP BD	21+50	53 RT	622.7	606.7	16'-0"	8'-8"	4'-6"	7'-4"	4'-0"	614.0	4.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	15'-2"	#4	15'-2"			4			A	120	
QR2	RAMP CB	34+50	55 RT	640.5	620.5	20'-0"	13'-11"	4'-6"	6'-1"	4'-0"	626.6	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	19'-2"	#4	19'-2"		2		1		C	120	
IJ4	US 30	304+50	80 RT	613.4	588.9	24'-6"	19'-5"	4'-6"	5'-1"	4'-0"	594.0	3.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	23'-8"	#4	23'-8"		2		1		C	120	
IJ2	US 30	308+85	120 RT	616.0	602.5	13'-6"	4'-10"	4'-6"	8'-8"	4'-0"	611.2	5.0 Cu. Yd.	1 3/4"	3'-0"	18 - #11	12'-8"	#4	12'-8"	3		3			A	120	

*Length is height of spiral

	USER NAME = rdnley	DESIGNED - SMY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING LIGHT TOWER FOUNDATION, 54" DIAMETER	F.A.I. RTE. = 80	SECTION = 2011-046-L	COUNTY = WILL	TOTAL SHEETS = 106	SHEET NO. = 70
	PLOT SCALE = 0:2.0000' = 1"	DRAWN - RD	REVISED -			CONTRACT NO. 60P56				
PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -	SHEET NO. S-3 OF S-17 SHEETS							
ILLINOIS FED. AID PROJECT										



TYPE A - HEXAGON CONCRETE SERVICE PAD



SECTION A-A

NOTES:

1. For location of Light Tower Foundations, see Roadway Lighting Plan Sheets.
2. See Sheet S-1 through S-3 for High Mast Light Tower Foundation Details, and ground well locations.
3. The light tower and light tower foundation shall be paid for separately, all remaining work to construct the service pad as detailed including granular subbase, service pad, and reinforcement shall be paid for at the contract unit price per each for "Light Tower, Service Pad."

N:\PROJ\0003384\00\6_High_Mast\Design\Structural\CAD\0003384\06_04_High_Mast_Foundation_Service_Pad & Well_Details_Type_A.dgn



USER NAME = rdenley	DESIGNED - SMY	REVISED -
	CHECKED - BWS	REVISED -
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PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

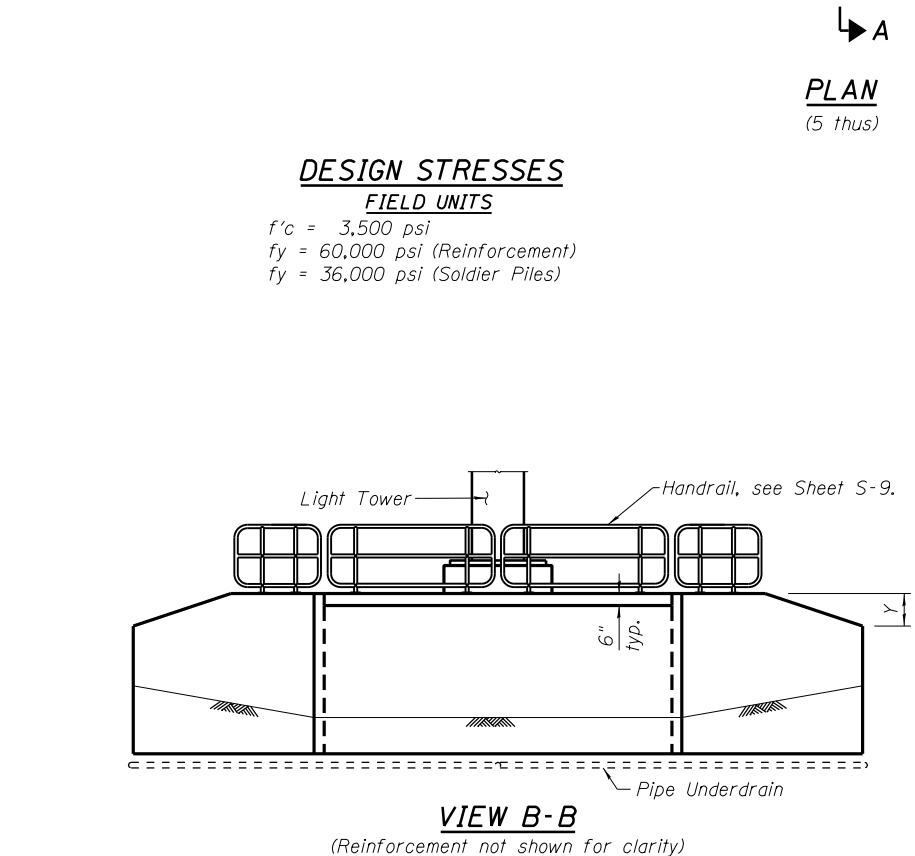
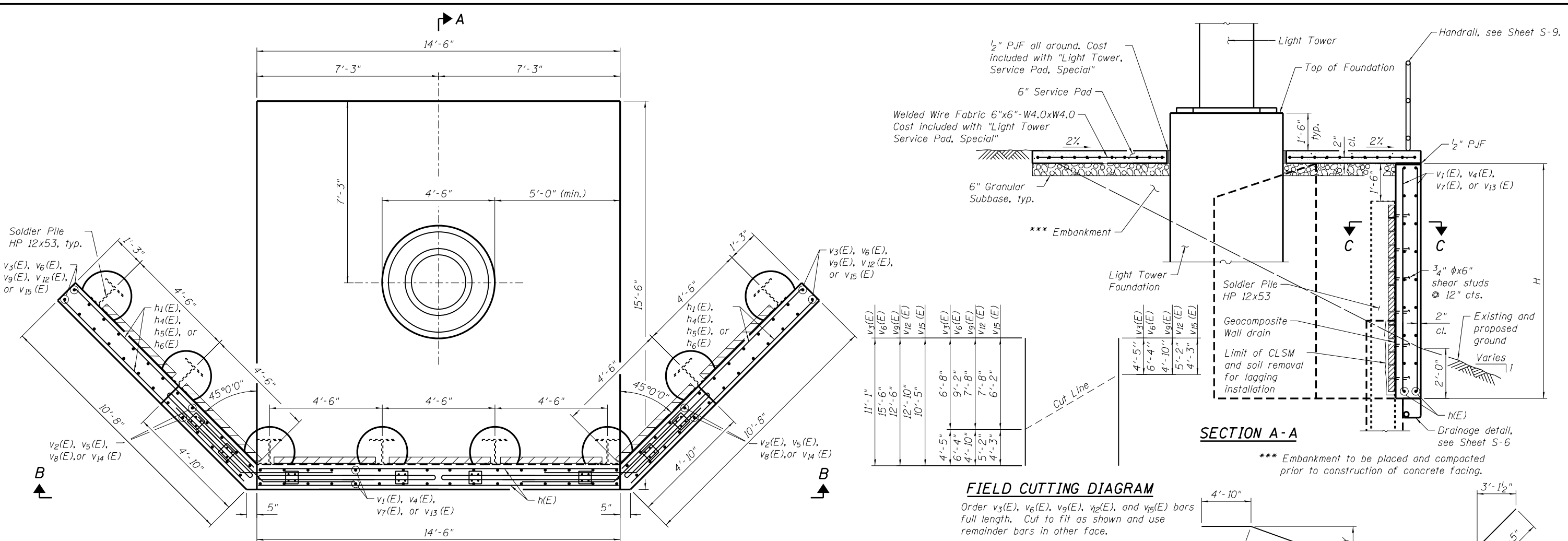
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, (TYPE A)**

SHEET NO. S-4 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	71
				CONTRACT NO. 60P56
ILLINOIS FED. AID PROJECT				

N:\PROJECTS\0003384\0003384_06_High Mast Foundation Service Pad & Wall Details Type B.dgn



DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$
 $f_y = 36,000 \text{ psi (Soldier Piles)}$

Cut Line

v3(E)	11'-1"
v6(E)	15'-6"
v9(E)	12'-6"
v12(E)	10'-5"
v15(E)	6'-8"
v3(E)	9'-2"
v6(E)	7'-8"
v9(E)	7'-8"
v12(E)	5'-2"
v15(E)	4'-3"

FIELD CUTTING DIAGRAM
 Order v3(E), v6(E), v9(E), v12(E), and v15(E) bars full length. Cut to fit as shown and use remainder bars in other face.

BAR h1(E), h4(E), h5(E), h6(E)

BAR h2(E)

MINIMUM BAR LAP
 #6 Bar = 4'-5"

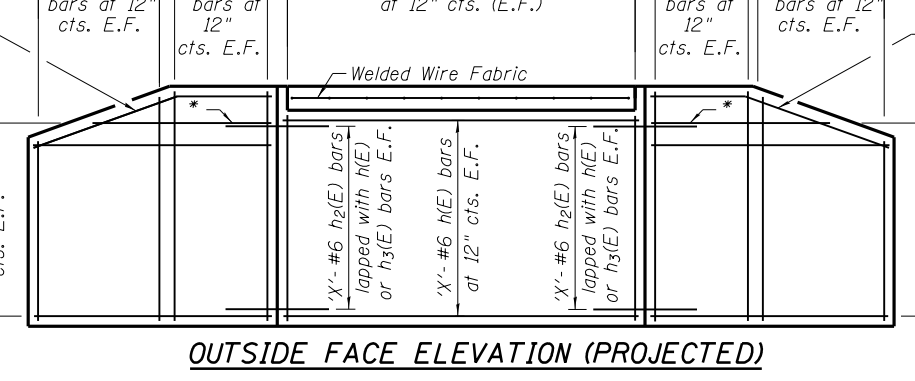
RETAINING WALL TABLE

Tower ID	Top of Pile Elev.	Pile Tip Elev.	Bottom of Wall Elev.	H	X	Y	
						Bar	Dimension
IJ1	642.1	625.3	636.6	7.0	8	h1(E)	2'-3"
KL1	642.1	619.3	634.1	9.5	10	h4(E)	2'-10"
MN2	644.1	625.6	637.6	8.0	9	h4(E)	2'-10"
KL2	640.0	622.0	633.5	8.0	9	h5(E)	2'-6"
KL3	636.9	623.9	631.9	6.5	7	h6(E)	1'-11"

- NOTES:**
- For location of Light Tower Foundations, see Roadway Lighting Plan Sheets.
 - For High Mast Light Tower Foundation details, see Sheets S-1 thru S-3.
 - The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
 - For Section C-C, see Sheet S-6.
 - For Retaining Wall schedules, see Sheet S-6.
 - E.F. denotes Each Face.

Tower KL3	**6- #6 v15(E) bars at 12" cts. E.F.	5- #6 v14(E) bars at 12" cts. E.F.	15- #6 v13(E) bars at 12" cts. (E.F.)	5- #6 v14(E) bars at 12" cts. E.F.	**6- #6 v15(E) bars at 12" cts. E.F.
Tower KL2	**6- #6 v12(E) bars at 12" cts. E.F.	5- #6 v8(E) bars at 12" cts. E.F.	15- #6 v7(E) bars at 12" cts. (E.F.)	5- #6 v8(E) bars at 12" cts. E.F.	**6- #6 v12(E) bars at 12" cts. E.F.
Tower MN2	**6- #6 v9(E) bars at 12" cts. E.F.	5- #6 v8(E) bars at 12" cts. E.F.	15- #6 v7(E) bars at 12" cts. (E.F.)	5- #6 v8(E) bars at 12" cts. E.F.	**6- #6 v9(E) bars at 12" cts. E.F.
Tower KL1	**6- #6 v6(E) bars at 12" cts. E.F.	5- #6 v5(E) bars at 12" cts. E.F.	15- #6 v4(E) bars at 12" cts. (E.F.)	5- #6 v5(E) bars at 12" cts. E.F.	**6- #6 v6(E) bars at 12" cts. E.F.
Tower IJ1	**6- #6 v3(E) bars at 12" cts. E.F.	5- #6 v2(E) bars at 12" cts. E.F.	15- #6 v1(E) bars at 12" cts. (E.F.)	5- #6 v2(E) bars at 12" cts. E.F.	**6- #6 v3(E) bars at 12" cts. E.F.

* Cut in field as needed
 ** See Field Cutting Diagram



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE B)



USER NAME = rdonley	DESIGNED - MHT	REVISED -
DESIGNED - MHT	CHECKED - BWS	REVISED -
DESIGNED - MHT	DRAWN - SMY	REVISED -
DESIGNED - MHT	CHECKED - BWS	REVISED -

DESIGNED - MHT	REVISED -
CHECKED - BWS	REVISED -
DRAWN - SMY	REVISED -
CHECKED - BWS	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	72
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

SHEET NO. S-5 OF S-17 SHEETS

RETAINING WALL SERVICE PAD SCHEDULE

(For information only)

Tower ID IJ1				
Bar	No.	Size	Length	Shape
h(E)	16	# 6	14'-6"	—
h1(E)	4	# 6	10'-7"	↙
h2(E)	32	# 6	9'-3"	↙
h3(E)	32	# 6	10'-4"	—
v1(E)	30	# 6	6'-2"	—
v2(E)	20	# 6	6'-8"	—
v3(E)	12	# 6	11'-1"	—
Concrete Structures		Cu. Yd.	8.9	
Reinforcement Bars, Epoxy Coated		Pound	2,040	
Stud Shear Connectors		Each	48	
Pipe Handrail		Foot	23	
Geocomposite Wall Drain		Sq. Yd.	9	

Tower ID KL1				
Bar	No.	Size	Length	Shape
h(E)	20	# 6	14'-6"	—
h2(E)	40	# 6	9'-3"	↙
h3(E)	40	# 6	10'-4"	—
h4(E)	4	# 6	10'-7"	↙
v4(E)	30	# 6	8'-8"	—
v5(E)	20	# 6	9'-2"	—
v6(E)	12	# 6	15'-6"	—
Concrete Structures		Cu. Yd.	12.1	
Reinforcement Bars, Epoxy Coated		Pound	2,630	
Stud Shear Connectors		Each	70	
Pipe Handrail		Foot	23	
Geocomposite Wall Drain		Sq. Yd.	13	

Tower ID MN2				
Bar	No.	Size	Length	Shape
h(E)	18	# 6	14'-6"	—
h2(E)	36	# 6	9'-3"	↙
h3(E)	36	# 6	10'-4"	—
h4(E)	4	# 6	10'-7"	↙
v7(E)	30	# 6	7'-2"	—
v8(E)	20	# 6	7'-8"	—
v9(E)	12	# 6	12'-6"	—
Concrete Structures		Cu. Yd.	10.7	
Reinforcement Bars, Epoxy Coated		Pound	2,300	
Stud Shear Connectors		Each	62	
Pipe Handrail		Foot	23	
Geocomposite Wall Drain		Sq. Yd.	12	

Tower ID KL2				
Bar	No.	Size	Length	Shape
h(E)	18	# 6	14'-6"	—
h2(E)	36	# 6	9'-3"	↙
h3(E)	36	# 6	10'-4"	—
h5(E)	4	# 6	10'-7"	↙
v7(E)	30	# 6	7'-2"	—
v8(E)	20	# 6	7'-8"	—
v12(E)	12	# 6	12'-10"	—
Concrete Structures		Cu. Yd.	10.1	
Reinforcement Bars, Epoxy Coated		Pound	2,300	
Stud Shear Connectors		Each	56	
Pipe Handrail		Foot	23	
Geocomposite Wall Drain		Sq. Yd.	11	

Tower ID KL3				
Bar	No.	Size	Length	Shape
h(E)	14	# 6	14'-6"	—
h2(E)	28	# 6	9'-3"	↙
h3(E)	28	# 6	10'-4"	—
h6(E)	4	# 6	10'-7"	↙
v13(E)	30	# 6	5'-8"	—
v14(E)	20	# 6	6'-2"	—
v15(E)	12	# 6	10'-5"	—
Concrete Structures		Cu. Yd.	8.3	
Reinforcement Bars, Epoxy Coated		Pound	1,830	
Stud Shear Connectors		Each	46	
Pipe Handrail		Foot	23	
Geocomposite Wall Drain		Sq. Yd.	8	

RETAINING WALL BILL OF MATERIAL

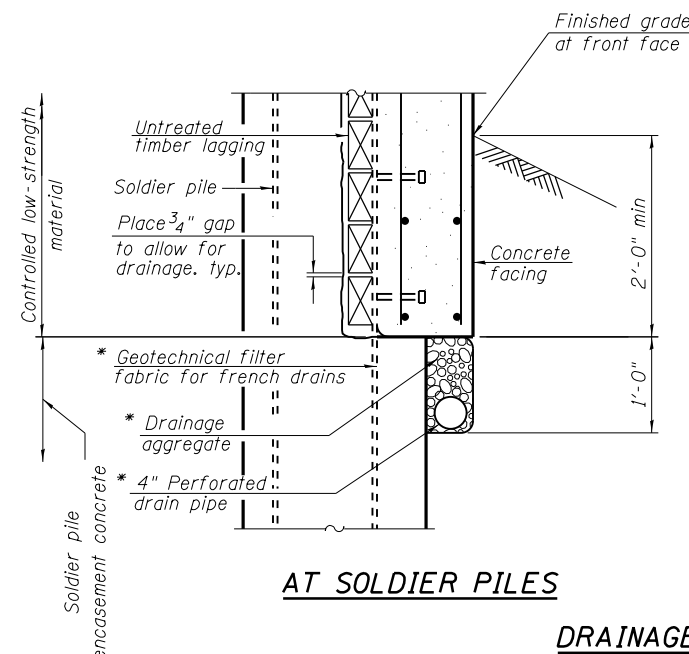
Tower ID IJ1		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	131
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	373
Untreated Timber Lagging	Sq. Ft.	153

Tower ID KL1		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	179
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	431
Untreated Timber Lagging	Sq. Ft.	224

Tower ID MN2		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	148
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	388
Untreated Timber Lagging	Sq. Ft.	195

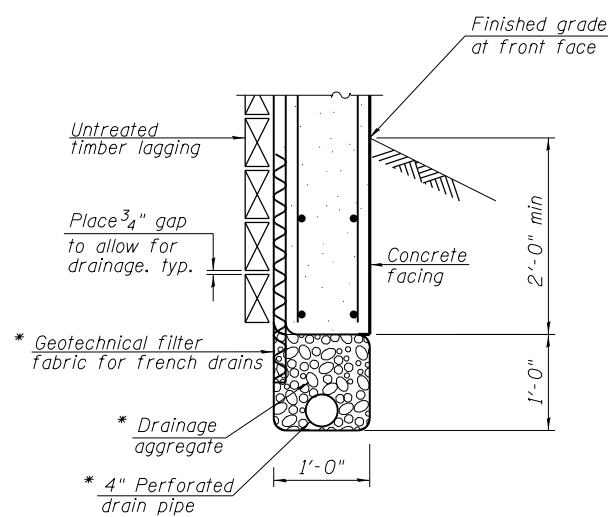
Tower ID KL2		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	141
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	346
Untreated Timber Lagging	Sq. Ft.	181

Tower ID KL3		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	102
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	278
Untreated Timber Lagging	Sq. Ft.	139

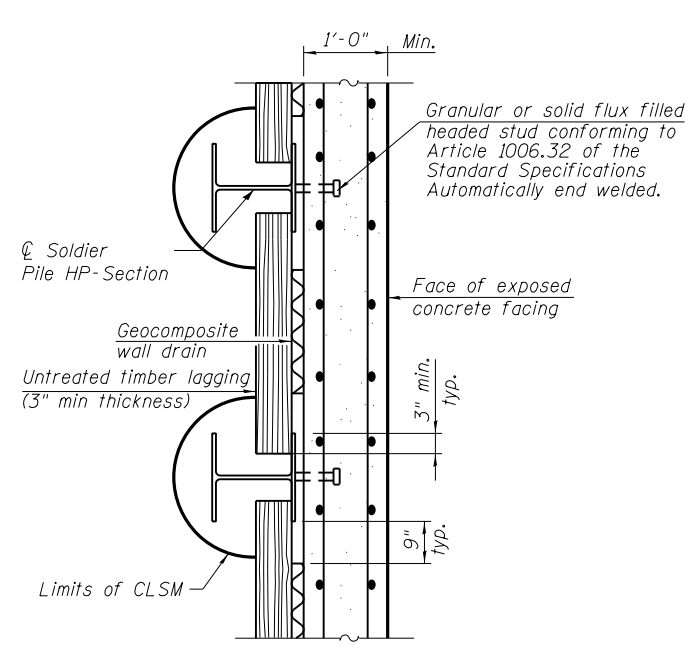


AT SOLDIER PILES

DRAINAGE DETAIL



BETWEEN SOLDIER PILES



SECTION C-C

NOTES:

- The light tower and light tower foundation shall be paid for separately. All remaining work including service pad and items shown in the service pad schedule shall be paid for at the contract unit price per each for "Light Tower Service Pad, Special".
- Items shown in the retaining wall bill of material shall be paid for separately according to the special provision "Drilled Soldier Pile Retaining Wall".

* Included in the cost of Pipe Underdrains, 4". See Grading Plans.

N:\PROJECTS\03384\000\6_High_West_Design\Structural\CAD\0003384\06 Soldier_Pile_Wall_Detail.dgn



USER NAME = rdonley	DESIGNED - MHT	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - BWS	REVISED -
PLOT DATE = 2/13/2012	DRAWN - RD	REVISED -
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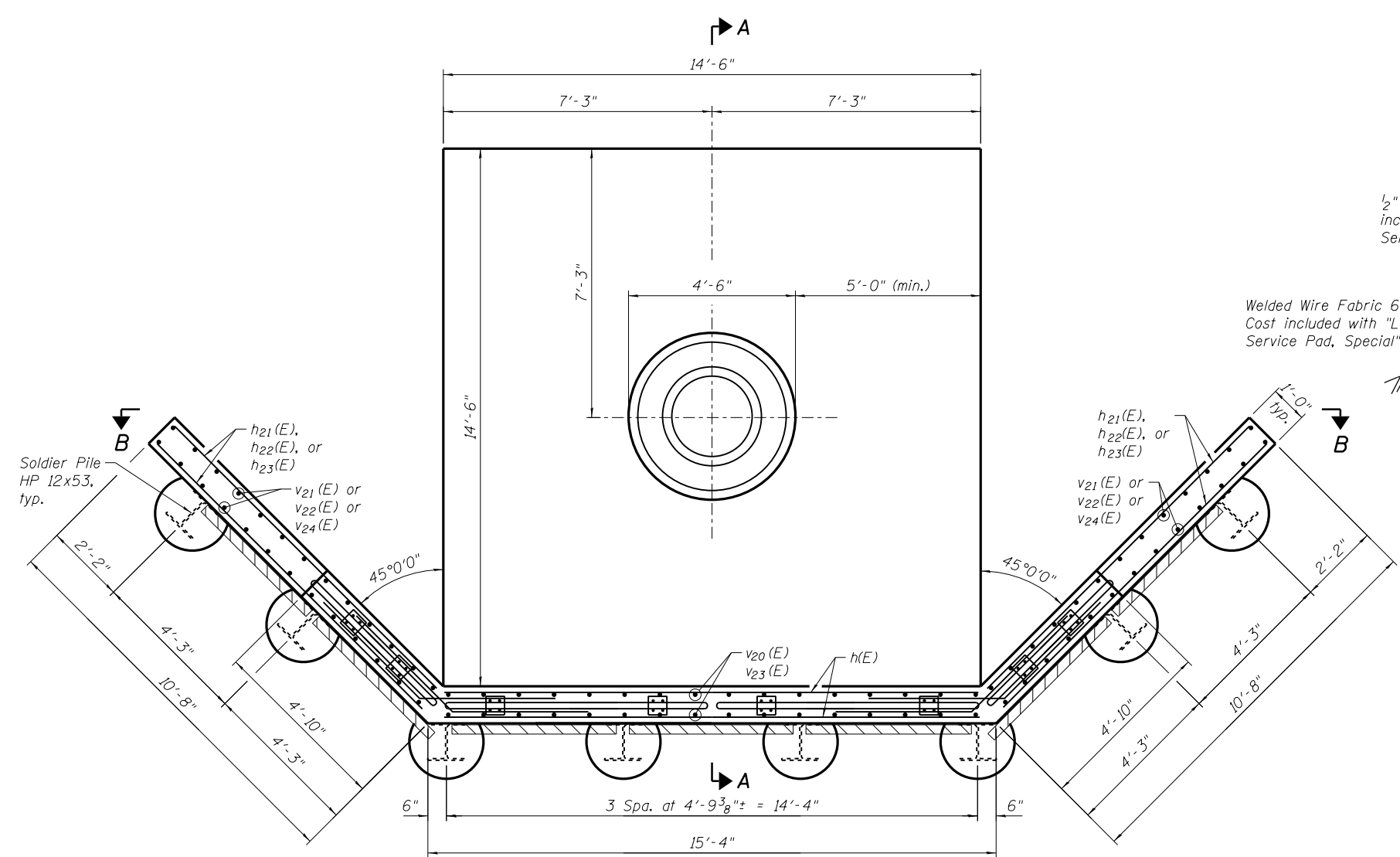
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE B)**

SHEET NO. S-6 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	73
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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 07 High Mast Foundation Service Pad & Wall Details Type C.dgn

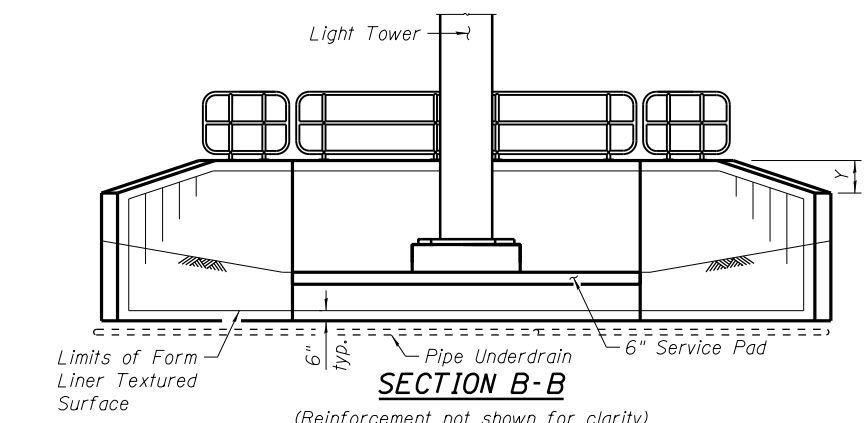


PLAN
(3 thus)

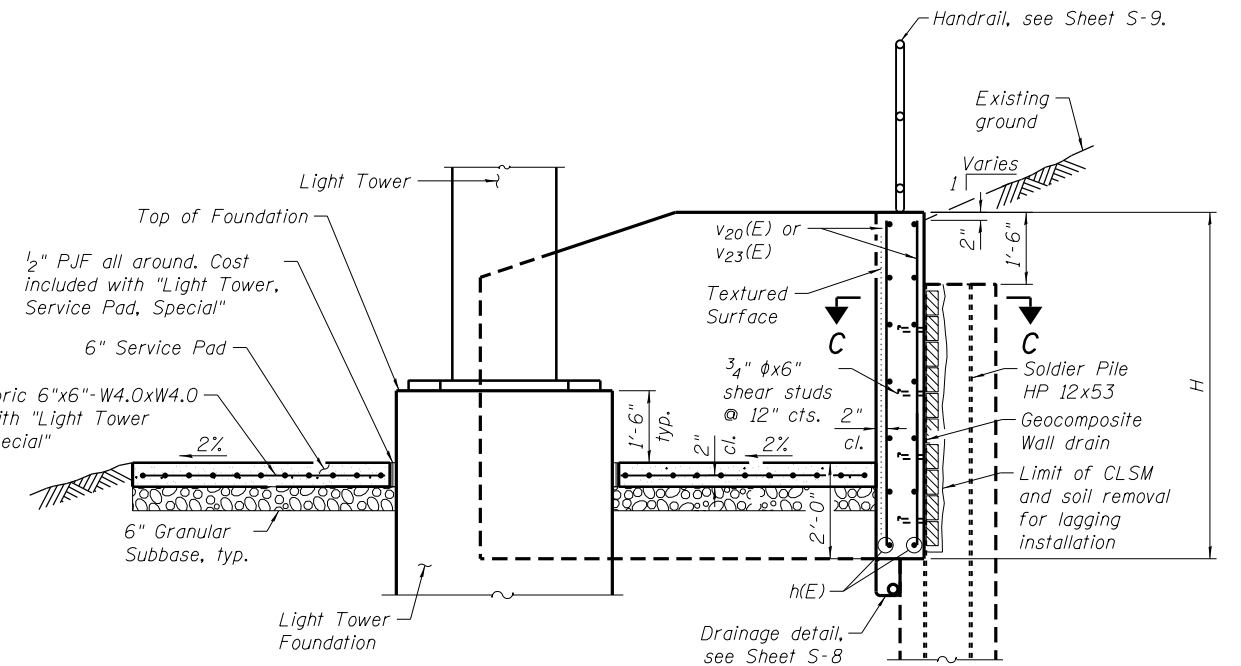
Tower IJ3	**6- #6 v ₂₁ (E) bars at 12" cts. E.F.	5- #6 v ₂₀ (E) bars at 12" cts. E.F.	15- #6 v ₂₀ (E) bars at 12" cts. (E.F.)	5- #6 v ₂₀ (E) bars at 12" cts. E.F.	**6- #6 v ₂₁ (E) bars at 12" cts. E.F.
Tower QR2	**6- #6 v ₂₂ (E) bars at 12" cts. E.F.	5- #6 v ₂₀ (E) bars at 12" cts. E.F.	15- #6 v ₂₀ (E) bars at 12" cts. (E.F.)	5- #6 v ₂₀ (E) bars at 12" cts. E.F.	**6- #6 v ₂₂ (E) bars at 12" cts. E.F.
Tower IJ4	**6- #6 v ₂₄ (E) bars at 12" cts. E.F.	5- #6 v ₂₃ (E) bars at 12" cts. E.F.	15- #6 v ₂₃ (E) bars at 12" cts. (E.F.)	5- #6 v ₂₃ (E) bars at 12" cts. E.F.	**6- #6 v ₂₄ (E) bars at 12" cts. E.F.

* Cut in field as needed
** See Field Cutting Diagram

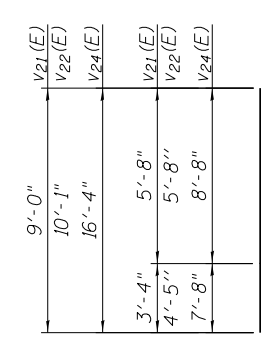
DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$
 $f_y = 36,000 \text{ psi (Soldier Pile)}$



SECTION B-B
(Reinforcement not shown for clarity)

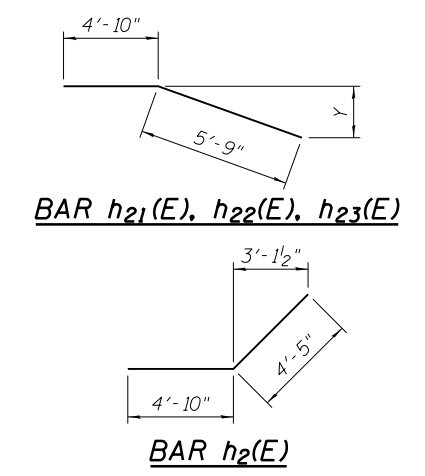


SECTION A-A



FIELD CUTTING DIAGRAM

Order v₂₁(E), v₂₂(E), and v₂₄(E) bars full length.
Cut to fit as shown and use remainder bars in other face.



MINIMUM BAR LAPS
#6 Bar = 4'-5"

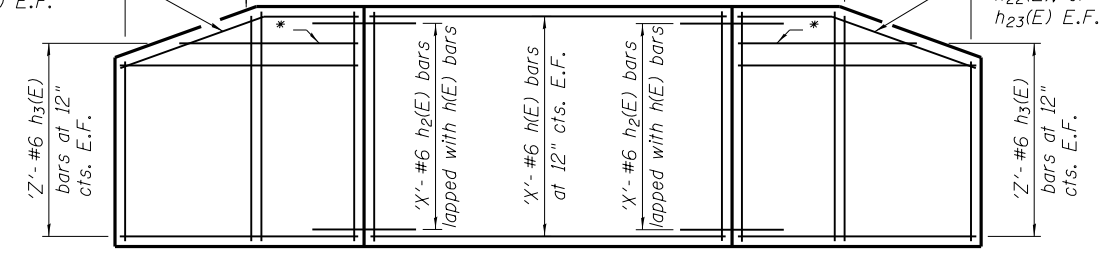
RETAINING WALL TABLE

Tower ID	Top of Pile Elev.	Pile Tip Elev.	Bottom of Wall Elev.	H	X	Y		Z	Est. Top of Rock Elev.
						Bar	Dimension		
IJ3	630.1	620.4	625.6	6.0'	7	h ₂₁ (E)	2'-4"	6	623.4
QR2	641.6	628.3	637.1	6.0'	7	h ₂₂ (E)	1'-3"	6	626.6
IJ4	617.5	593.0	610.0	9.0'	10	h ₂₃ (E)	1'-0"	9	594.0

NOTES:

- For location of Light Tower Foundations, see Roadway Lighting Plan Sheets.
- For High Mast Light Tower Foundation details, see Sheets S-1 thru S-3.
- The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
- For Section C-C, see Sheet S-8.
- For Retaining Wall schedules, see Sheet S-8.
- E.F. denotes Each Face.

INSIDE FACE ELEVATION (PROJECTED)



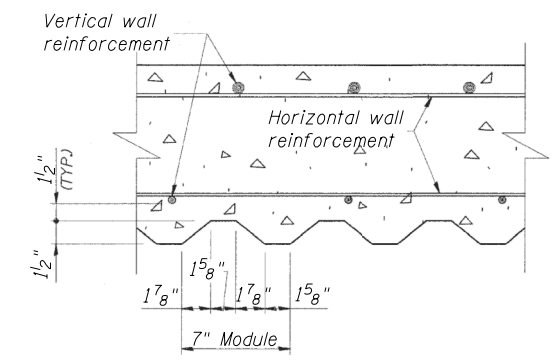
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PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

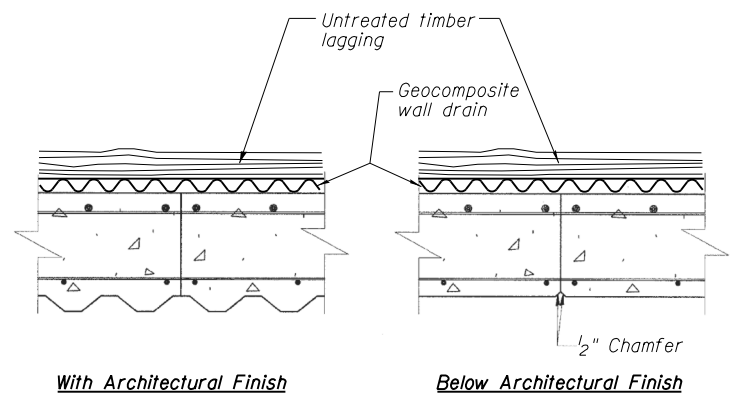
F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE C)

SHEET NO. S-7 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	74
CONTRACT NO. 60P56			ILLINOIS FED. AID PROJECT	



FORM LINER TEXTURED SURFACE DETAIL



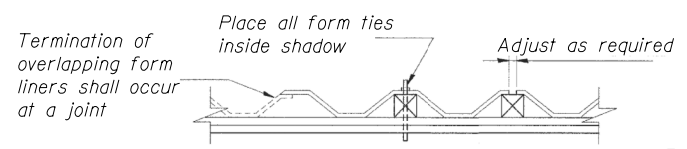
CONSTRUCTION JOINT DETAIL

RETAINING WALL SERVICE PAD SCHEDULE
(For information only)

TOWER ID IJ3				
Bar	No.	Size	Length	Shape
h(E)	14	# 6	14'-6"	—
h2(E)	28	# 6	9'-3"	└
h2(E)	4	# 6	10'-7"	└
h3(E)	24	# 6	10'-4"	—
v20(E)	50	# 6	5'-8"	—
v21(E)	12	# 6	9'-0"	—
Concrete Structures	Cu. Yd.	7.5		
Reinforcement Bars, Epoxy Coated	Pound	1,720		
Stud Shear Connectors	Each	40		
Pipe Handrail	Foot	23		
Geocomposite Wall Drain	Sq. Yd.	8		
Form Liner Textured Surface	Sq. Ft.	162		

TOWER ID QR2				
Bar	No.	Size	Length	Shape
h(E)	14	# 6	14'-6"	—
h2(E)	28	# 6	9'-3"	└
h2(E)	4	# 6	10'-7"	└
h3(E)	24	# 6	10'-4"	—
v20(E)	50	# 6	5'-8"	—
v22(E)	12	# 6	10'-1"	—
Concrete Structures	Cu. Yd.	7.7		
Reinforcement Bars, Epoxy Coated	Pound	1,740		
Stud Shear Connectors	Each	40		
Pipe Handrail	Foot	23		
Geocomposite Wall Drain	Sq. Yd.	10		
Form Liner Textured Surface	Sq. Ft.	274		

TOWER ID IJ4				
Bar	No.	Size	Length	Shape
h(E)	20	# 6	14'-6"	—
h2(E)	40	# 6	9'-3"	└
h2(E)	4	# 6	10'-7"	└
h3(E)	36	# 6	10'-4"	—
v23(E)	50	# 6	8'-8"	—
v24(E)	12	# 6	16'-4"	—
Concrete Structures	Cu. Yd.	118		
Reinforcement Bars, Epoxy Coated	Pound	2,560		
Stud Shear Connectors	Each	64		
Pipe Handrail	Foot	23		
Geocomposite Wall Drain	Sq. Yd.	13		
Form Liner Textured Surface	Sq. Ft.	168		



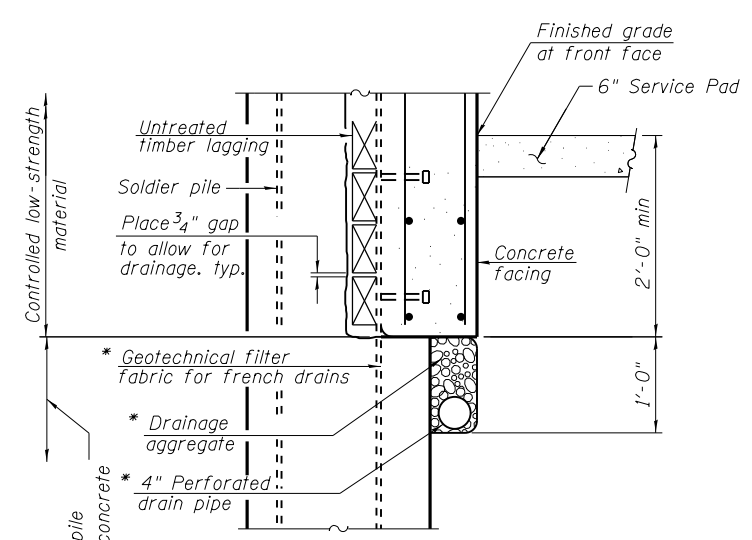
SUGGESTED FORMWORK DETAIL

RETAINING WALL BILL OF MATERIAL

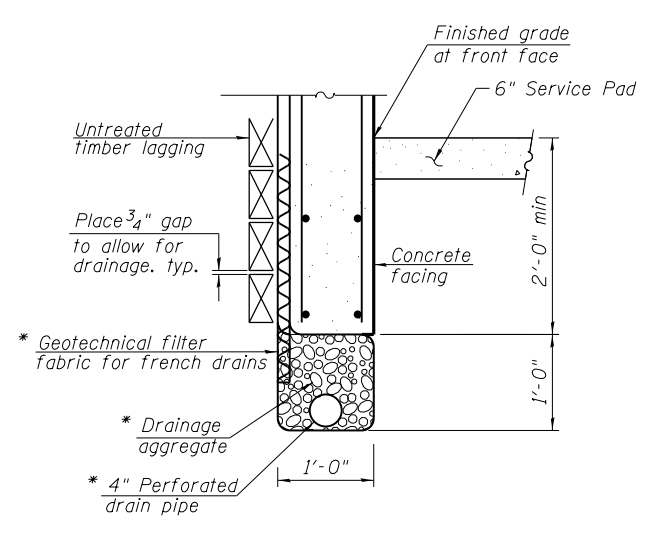
TOWER ID IJ3		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	76
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	165
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	76
Untreated Timber Lagging	Sq. Ft.	124

TOWER ID QR2		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	105
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	384
Untreated Timber Lagging	Sq. Ft.	127

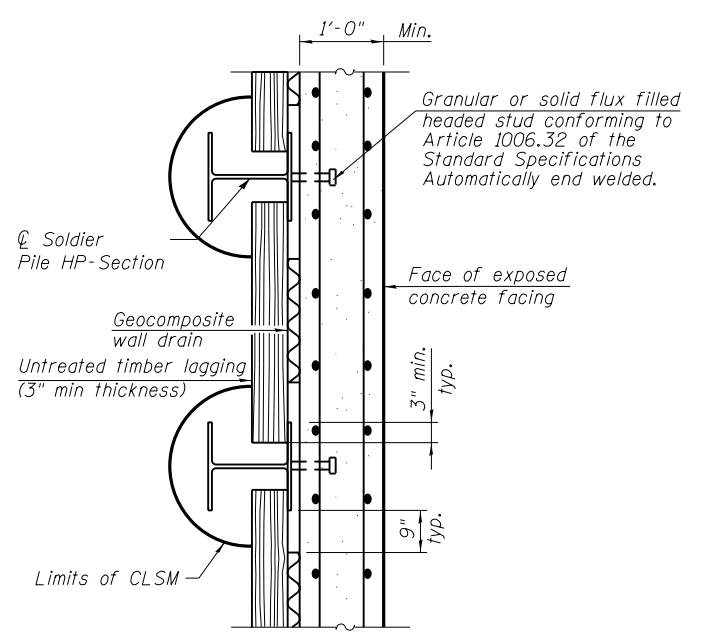
TOWER ID IJ4		
	Unit	Total
Furnishing Soldier Piles (HP Section)	Foot	195
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	583
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	26
Untreated Timber Lagging	Sq. Ft.	214



AT SOLDIER PILES



BETWEEN SOLDIER PILES



SECTION C-C

NOTES:

- The light tower and light tower foundation shall be paid for separately. All remaining work including service pad and items shown in the service pad schedule shall be paid for at the contract unit price per each for "Light Tower Service Pad, Special".
- Items shown in the retaining wall bill of material shall be paid for separately according to the special provision "Drilled Soldier Pile Retaining Wall".

* Included in the cost of Pipe Underdrains 4". See Grading Plans.

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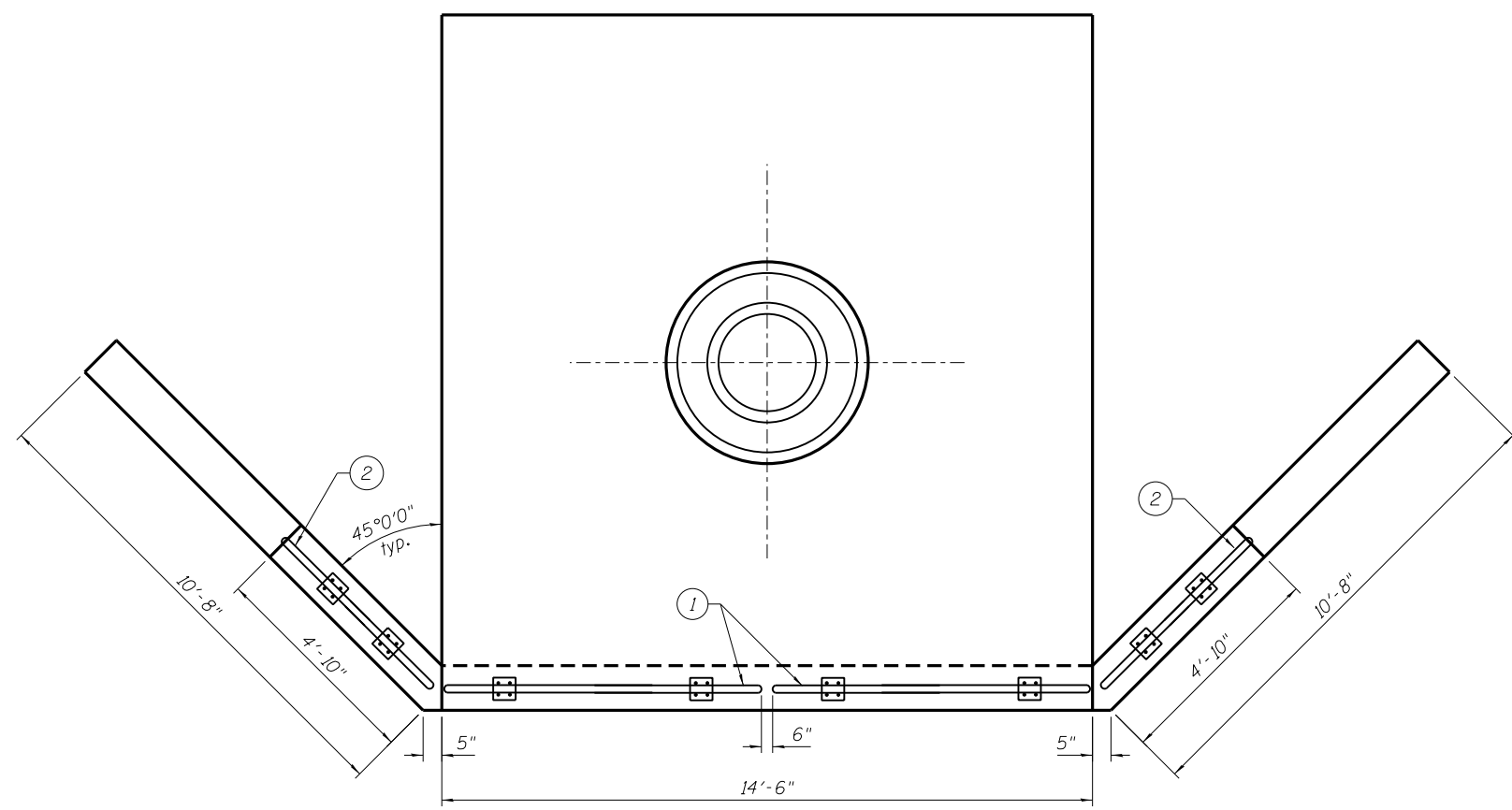
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, SPECIAL (TYPE C)**

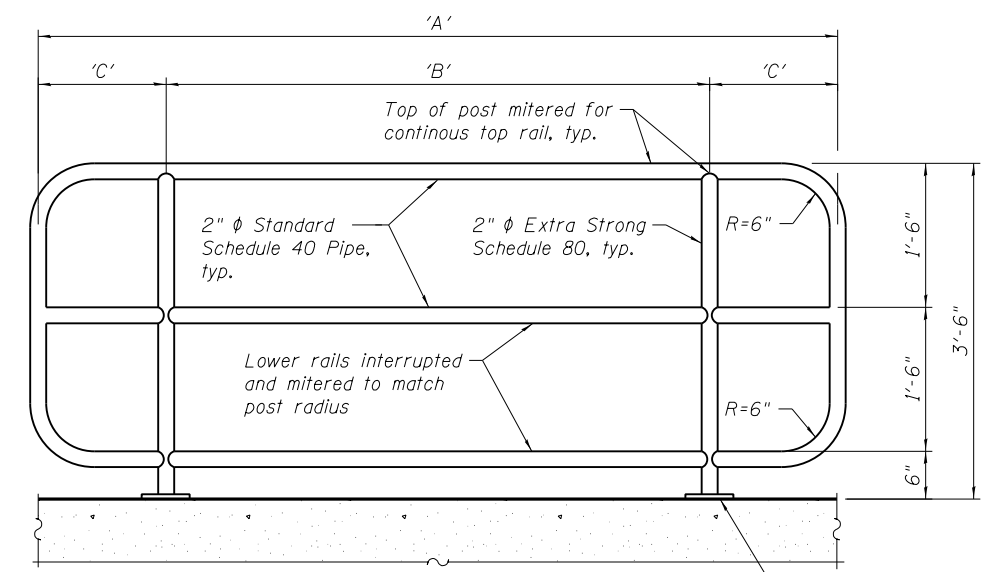
SHEET NO. S-8 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	75
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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HANDRAIL PLAN



HANDRAIL ELEVATION

Connect Handrail to Service Pad with standard flange plates anchored by four 5/8" φ Anchor Bolts, typ. per Section 509 of the Standard Specifications

HANDRAIL DIMENSIONS

Designation	'A'	'B'	'C'
①	7'-0"	5'-0"	1'-0"
②	4'-6"	2'-6"	1'-0"

NOTES:

1. For location of Light Tower Foundations, see Roadway Lighting Plan sheets.
2. See Sheets S-1 thru S-3 for High Mast Light Tower Foundation Details.
3. All Rail Post joints shall be welded & ground smooth prior to galvanizing.
4. Rail shall be fabricated in jig, true and straight to line.
5. Handrail shall be galvanized after fabrication is complete.
6. Handrail Posts shall be installed plumb and in-line.
7. Pipe Handrail shall be designed according to section 509 of Standard Specifications and Section 2.7.3 - "Pedestrian Railing" of the AASHTO Standard Specifications for Highway Bridges except pipe shall be hot dipped galvanized.
8. Contractor shall submit catalog cuts for approval prior to ordering material.



USER NAME = rdenley	DESIGNED - SMY	REVISED -
	CHECKED - BWS	REVISED -
PLOT SCALE = 4x0.0000 '1" / 1"	DRAWN - SMY	REVISED -
PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
LIGHT TOWER, SERVICE PAD, HANDRAIL DETAILS**

SHEET NO. S-9 OF S-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60P56				

ILLINOIS FED. AID PROJECT

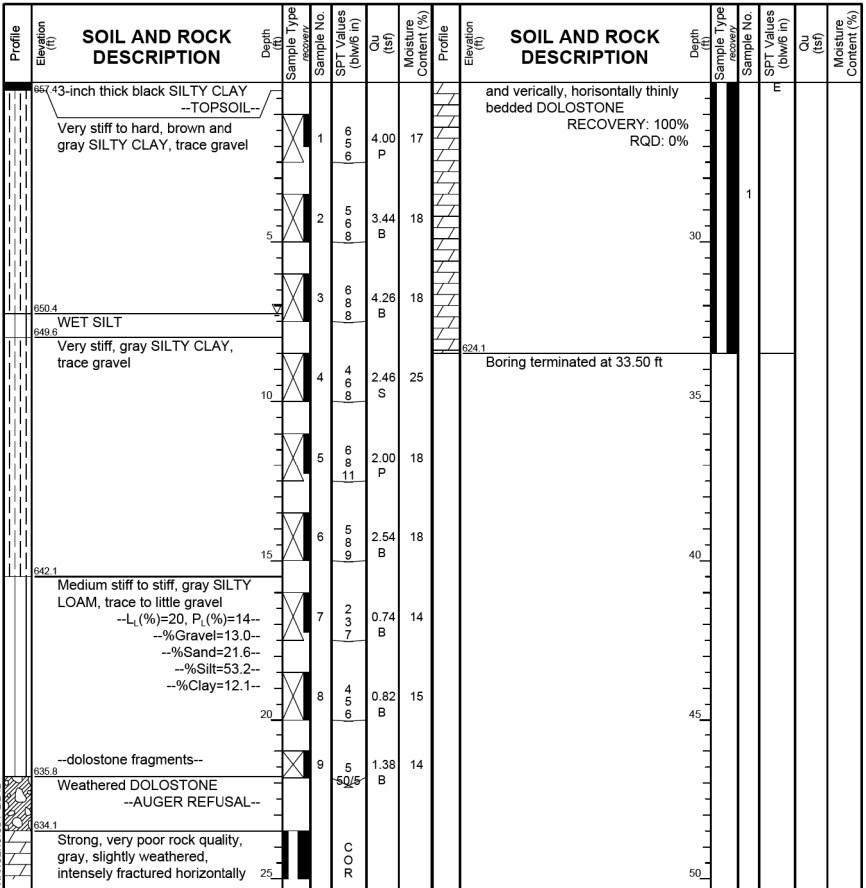
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BORING LOG AB-01 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 657.64 ft
 North: 1765947.66 ft
 East: 1076057.45 ft
 Station: 647+24
 Offset: 122.4 RT



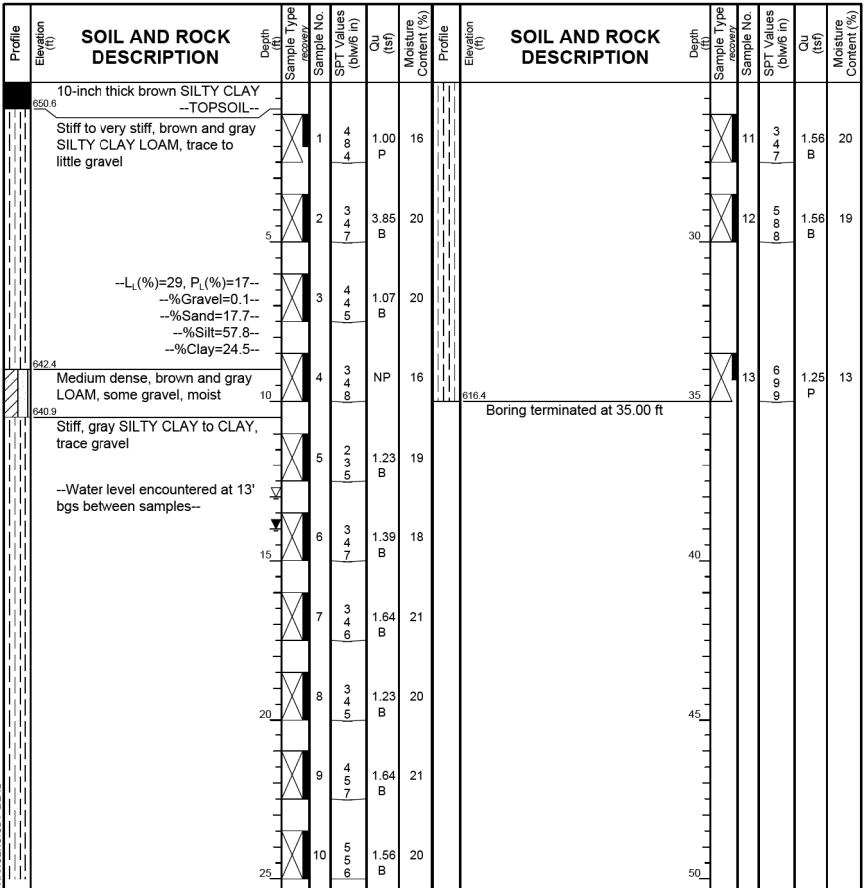
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-20-2011	Complete Drilling	12-20-2011
Drilling Contractor	WTS	Drill Rg	D-50 ATV
Driller	K & K	Logger	B. Wilson
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA
While Drilling		7.25 ft	
At Completion of Drilling		Washed	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

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BORING LOG AB-02 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 651.42 ft
 North: 1765695.96 ft
 East: 1075360.11 ft
 Station: 640+03
 Offset: 101.3 RT



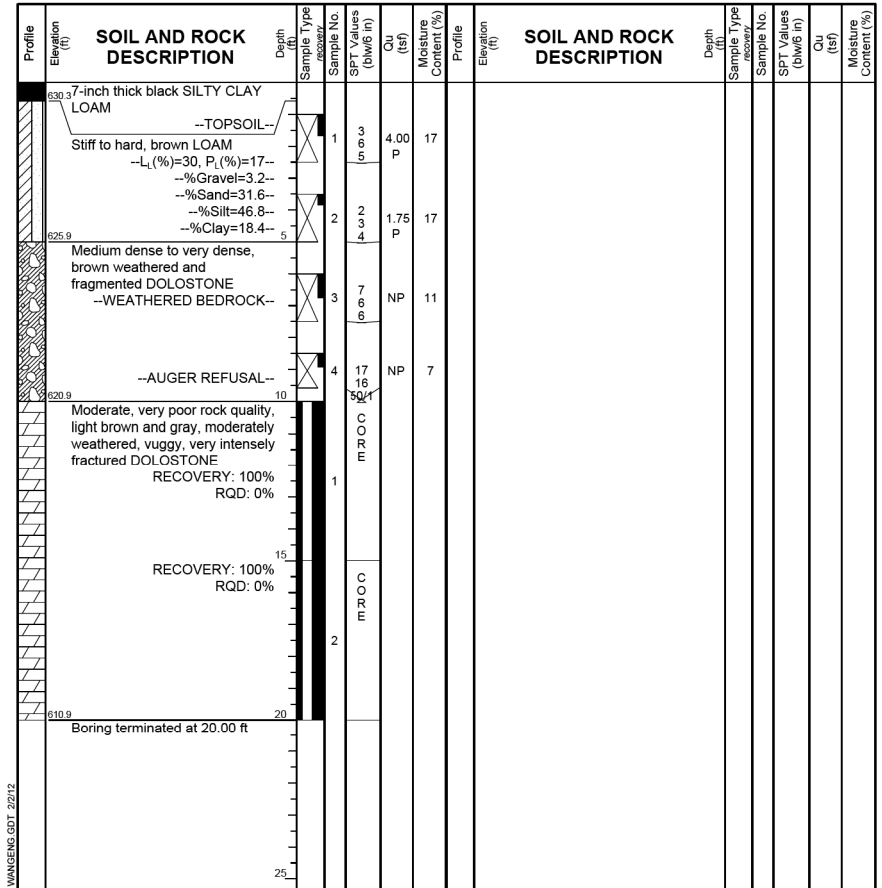
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-20-2011	Complete Drilling	12-20-2011
Drilling Contractor	WTS	Drill Rig	D-50 ATV
Driller	K & K	Logger	B. Wilson
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA
While Drilling		13.00 ft	
At Completion of Drilling		14.00 ft	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

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BORING LOG CD-01 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 630.85 ft
 North: 1767638.66 ft
 East: 1077794.36 ft
 Station: 671+05
 Offset: 144.7 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-22-2011	Complete Drilling	12-22-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57 TMR
Driller	R & N	Logger	C. Davis
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA
While Drilling		DRY	
At Completion of Drilling		Washed	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			



USER NAME = rdenley	DESIGNED - SMY	REVISED -
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PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	77
CONTRACT NO. 60P56				

SHEET NO. S-10 OF S-17 SHEETS

ILLINOIS FED. AID PROJECT

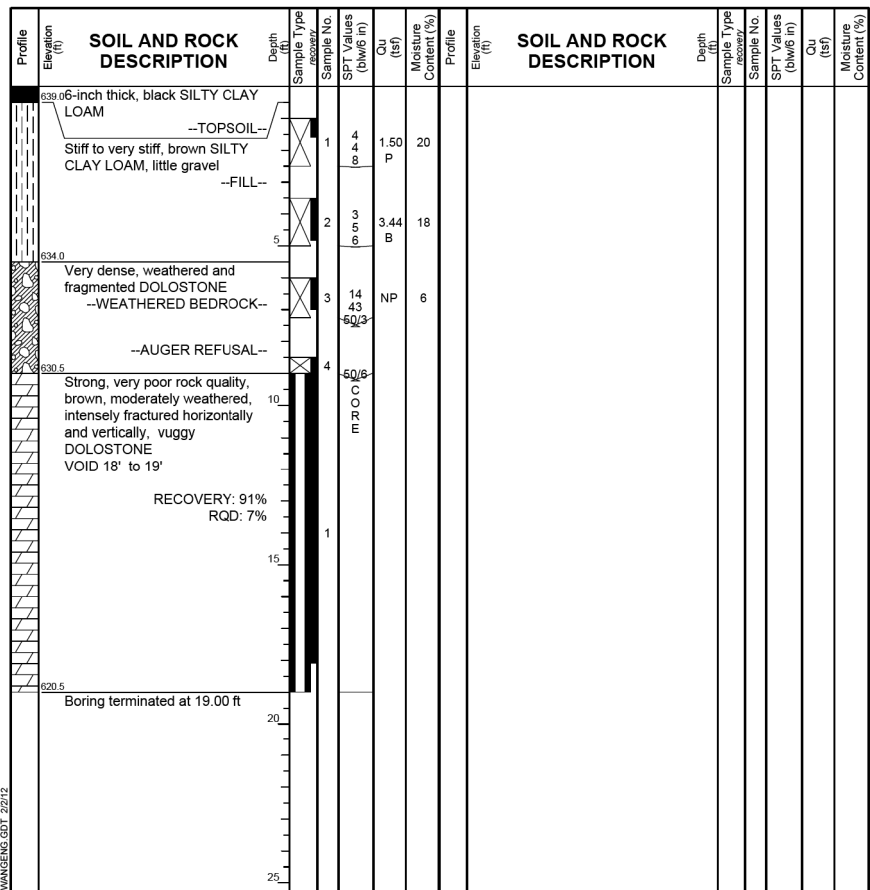
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BORING LOG CD-02

Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 639.53 ft
 North: 1767301.31 ft
 East: 1077543.42 ft
 Station: 667+00
 Offset: 99.3 RT



GENERAL NOTES

Begin Drilling 01-09-2012 Complete Drilling 01-09-2012
 Drilling Contractor WTS Drill Rig D-50 ATV
 Driller K & R Logger F. Bozga Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

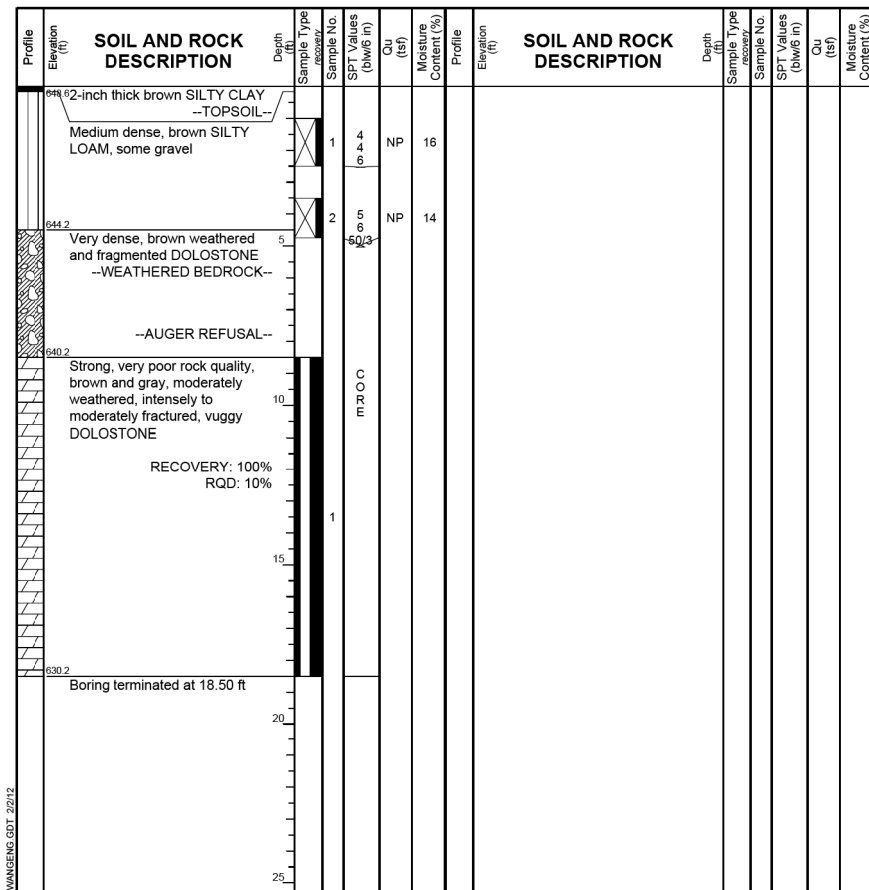
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BORING LOG CD-03

Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 648.73 ft
 North: 1766795.99 ft
 East: 1077189.23 ft
 Station: 661+01
 Offset: 131.2 RT



GENERAL NOTES

Begin Drilling 12-21-2011 Complete Drilling 12-21-2011
 Drilling Contractor WTS Drill Rig D-50 ATV
 Driller K & K Logger B. Wilson Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

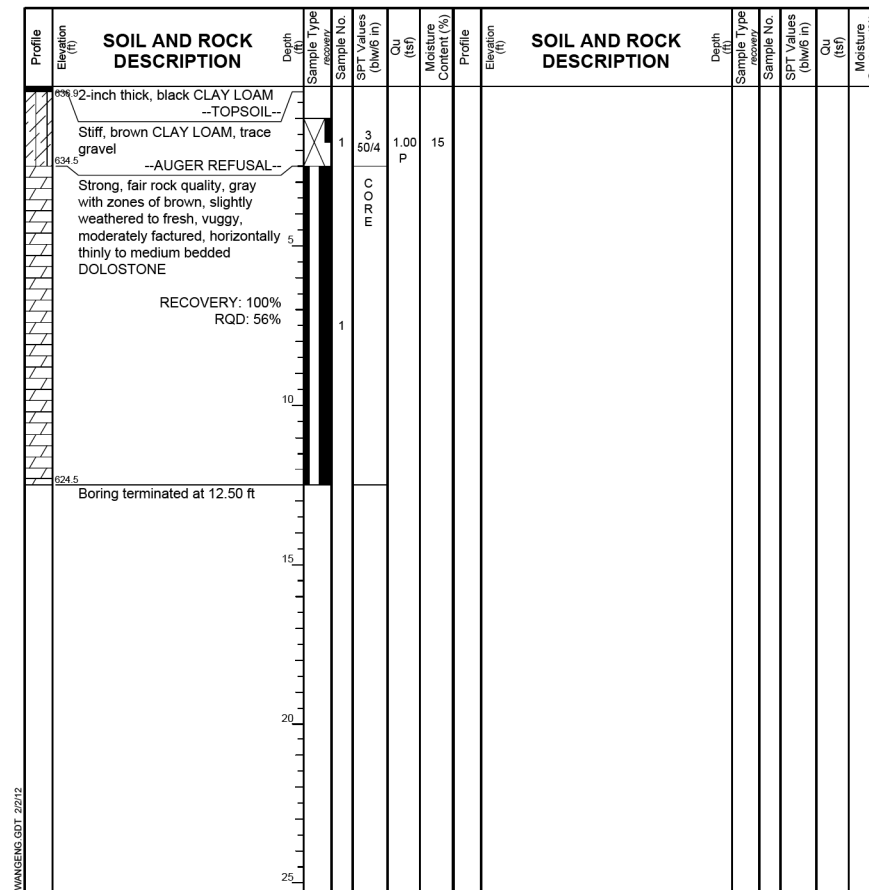
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BORING LOG CD-04

Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 637.04 ft
 North: 1766348.64 ft
 East: 1076616.82 ft
 Station: 653+95
 Offset: 77.5 RT



GENERAL NOTES

Begin Drilling 12-30-2011 Complete Drilling 12-30-2011
 Drilling Contractor WTS Drill Rig D-50 ATV
 Driller K & K Logger K. Mohammed Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling Washed
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SOIL BORING LOGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	78
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

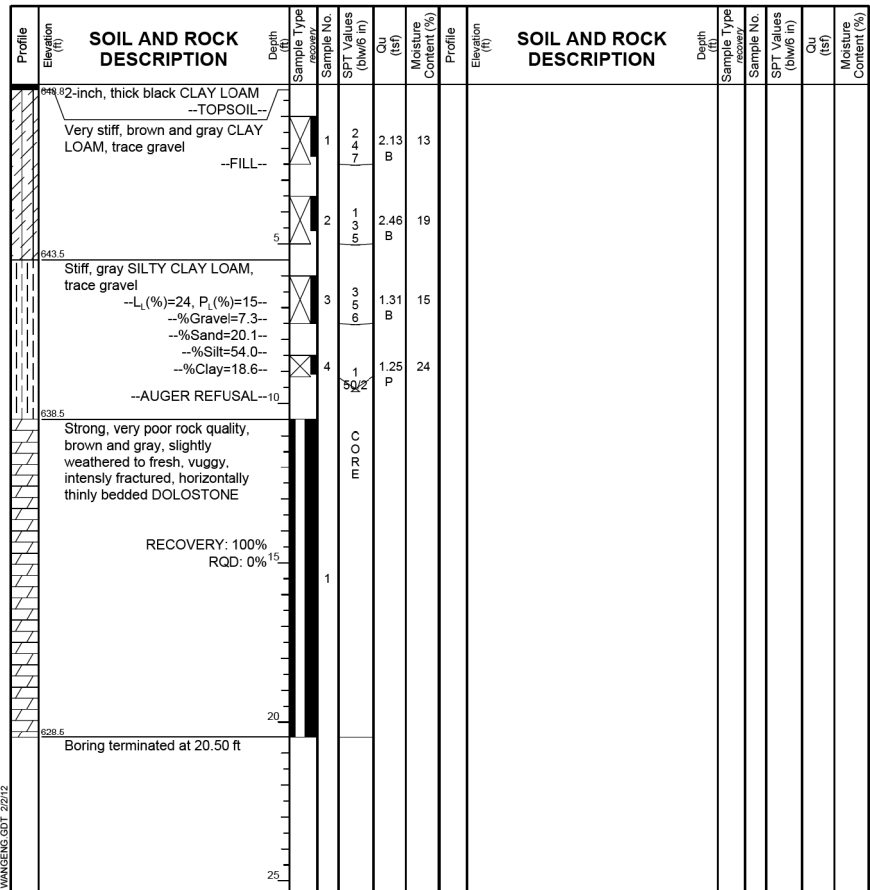
SHEET NO. S-11 OF S-17 SHEETS

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BORING LOG EF-01

Client: **WEI Job No.: 555-14-05**
 Project: **IDOT District One / Region One**
 Location: **HMLT I-80/US 30, D-91-243-11, WO 5**
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 648.96 ft
 North: 1766306.17 ft
 East: 1076235.03 ft
 Station: 650+54
 Offset: 103.2 LT



GENERAL NOTES

Begin Drilling: 12-29-2011
 Drilling Contractor: WTS
 Driller: K & K
 Drilling Method: 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
 At Completion of Drilling: Washed
 Time After Drilling: NA
 Depth to Water: NA

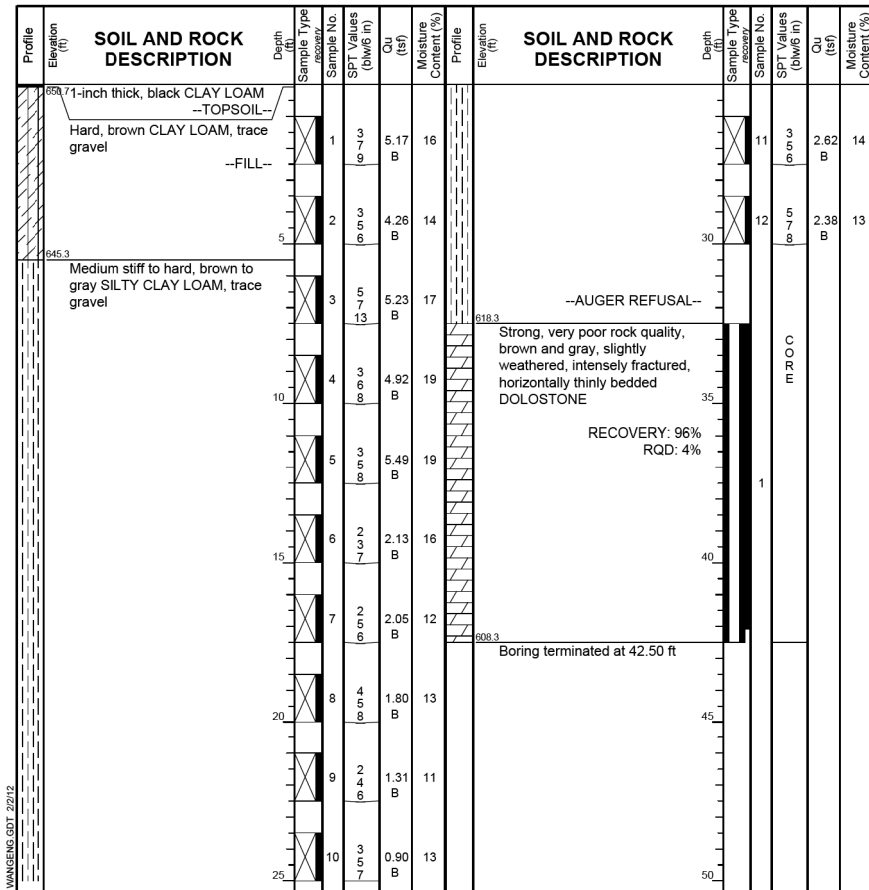
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG EF-02

Client: **WEI Job No.: 555-14-05**
 Project: **IDOT District One / Region One**
 Location: **HMLT I-80/US 30, D-91-243-11, WO 5**
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 650.81 ft
 North: 1765997.71 ft
 East: 1075623.71 ft
 Station: 143+50
 Offset: 100.5 LT



GENERAL NOTES

Begin Drilling: 12-29-2011
 Drilling Contractor: WTS
 Driller: K & K
 Drilling Method: 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
 At Completion of Drilling: Washed
 Time After Drilling: NA
 Depth to Water: NA

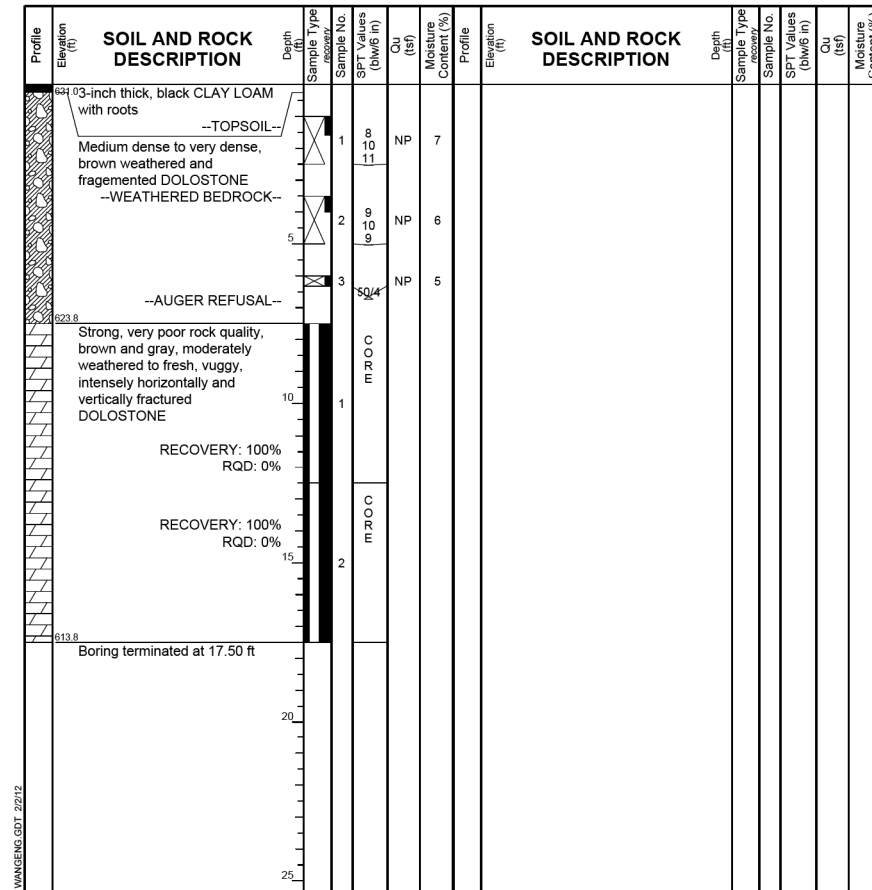
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG GH-01

Client: **WEI Job No.: 555-14-05**
 Project: **IDOT District One / Region One**
 Location: **HMLT I-80/US 30, D-91-243-11, WO 5**
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 631.28 ft
 North: 1767596.23 ft
 East: 1077446.43 ft
 Station: 668+99
 Offset: 139.3 LT



GENERAL NOTES

Begin Drilling: 12-27-2011
 Drilling Contractor: WTS
 Driller: K & K
 Drilling Method: 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
 At Completion of Drilling: Washed
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

N:\PROJECTS\0003384\0006_High_West_Design\Structural\CAD\0003384_06_12_Soil_Borings_3.dgn



USER NAME = rdonley	DESIGNED - SMY	REVISED -
PLOT SCALE = 0:2.0000' = 1"	CHECKED - BWS	REVISED -
PLOT DATE = 2/13/2012	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
SOIL BORING LOGS

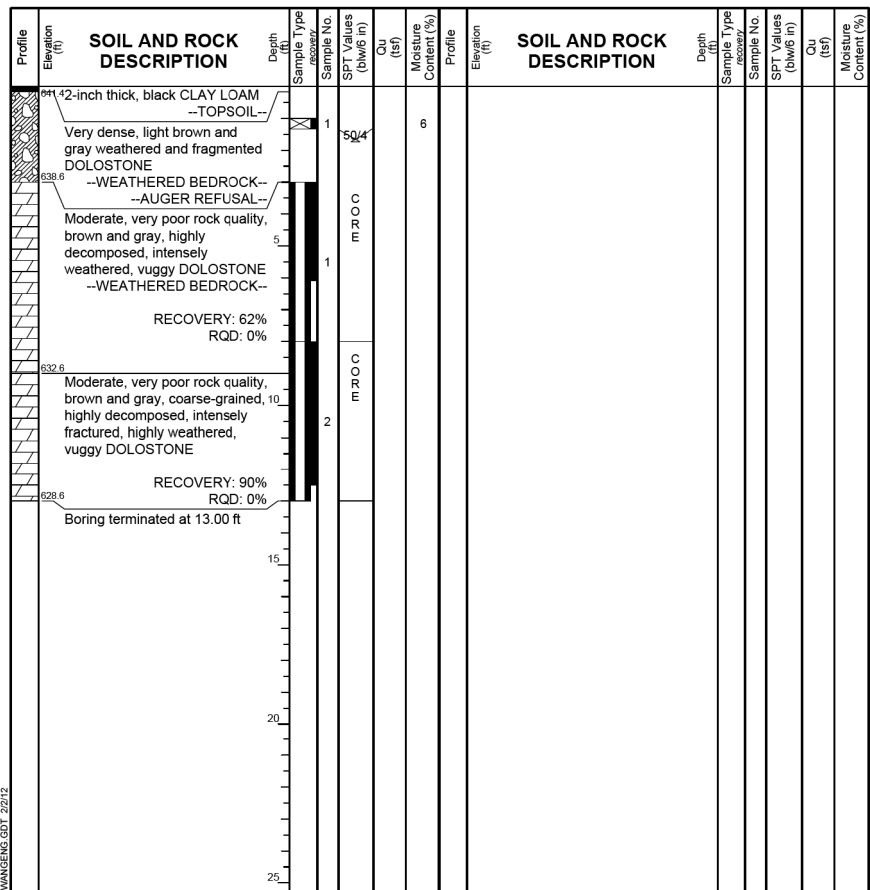
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	79
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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BORING LOG GH-02

WEI Job No.: 555-14-05
 IDOT District One / Region One
 HMLT I-80/US 30, D-91-243-11, WO 5
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 641.59 ft
 North: 1767189.74 ft
 East: 1077187.19 ft
 Station: 664+00
 Offset: 124.9 LT



GENERAL NOTES

Begin Drilling 12-28-2011 Complete Drilling 12-28-2011
 Drilling Contractor WTS Drill Rg D-50 ATV
 Driller K & K Logger A. Kurnia Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling Washed
 Time After Drilling NA
 Depth to Water NA

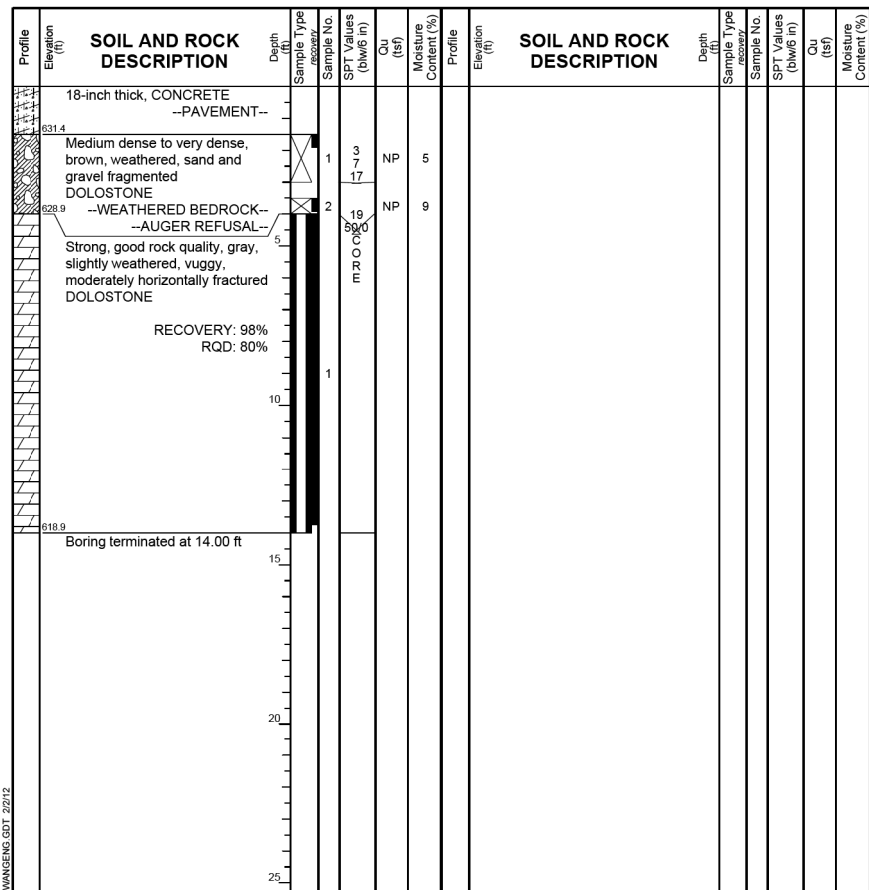
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG GH-03

WEI Job No.: 555-14-05
 IDOT District One / Region One
 HMLT I-80/US 30, D-91-243-11, WO 5
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 632.91 ft
 North: 1766666.63 ft
 East: 1076765.32 ft
 Station: 657+11
 Offset: 74.6 LT



GENERAL NOTES

Begin Drilling 12-29-2011 Complete Drilling 12-29-2011
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR
 Driller R & N Logger N. Boddy Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling Washed
 Time After Drilling NA
 Depth to Water NA

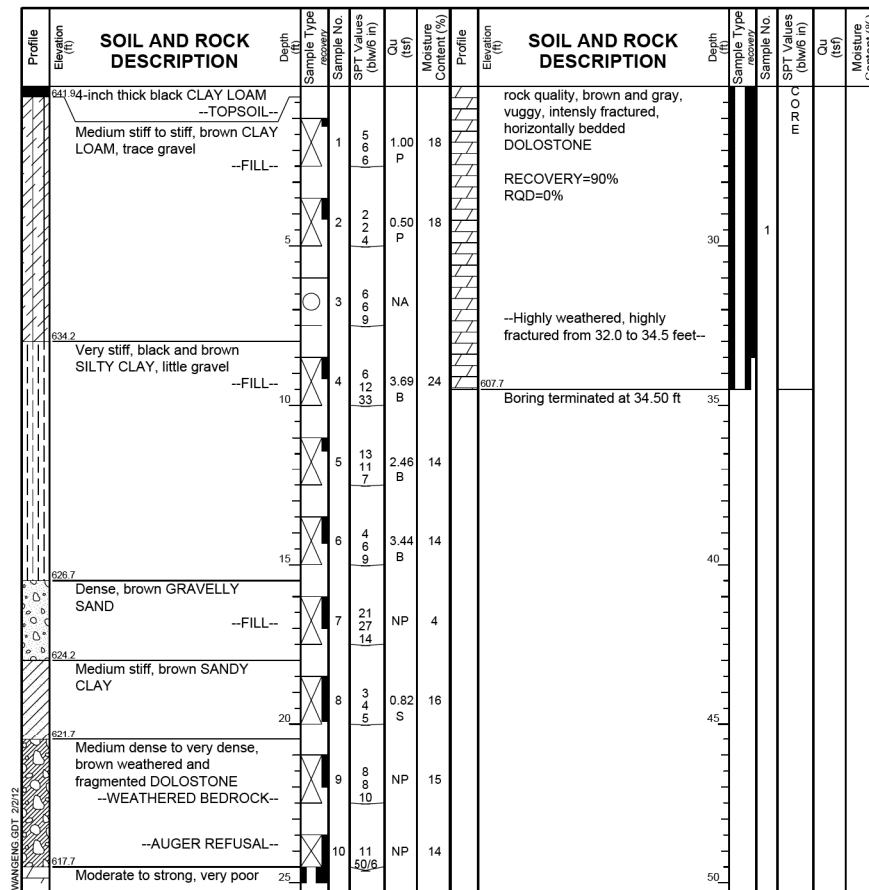
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG IJ-01

WEI Job No.: 555-14-05
 IDOT District One / Region One
 HMLT I-80/US 30, D-91-243-11, WO 5
 T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 642.18 ft
 North: 1767748.37 ft
 East: 1077583.50 ft
 Station: 671+05
 Offset: 93.0 LT



GENERAL NOTES

Begin Drilling 01-11-2012 Complete Drilling 01-11-2012
 Drilling Contractor WTS Drill Rig D-50 ATV
 Driller K&R Logger F. Bozga Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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PLOT DATE = 2/13/2012	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	80
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

SHEET NO. S-13 OF S-17 SHEETS

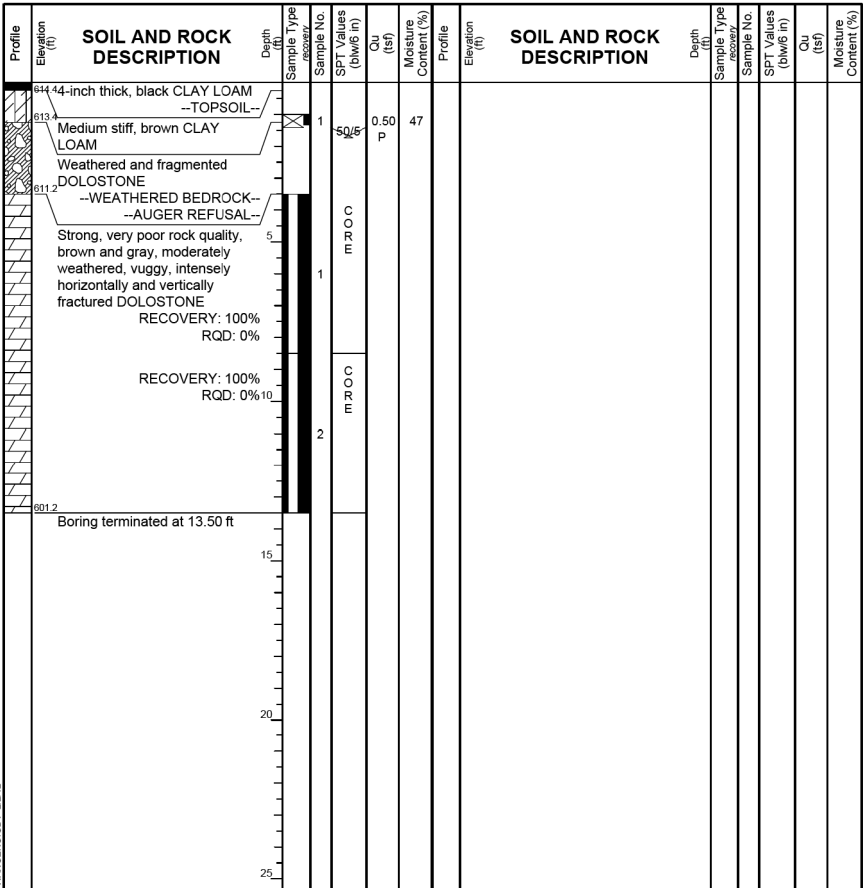
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BORING LOG IJ-02 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 614.88 ft
 North: 1767940.22 ft
 East: 1077162.26 ft
 Station: 308+94
 Offset: 99.5 RT



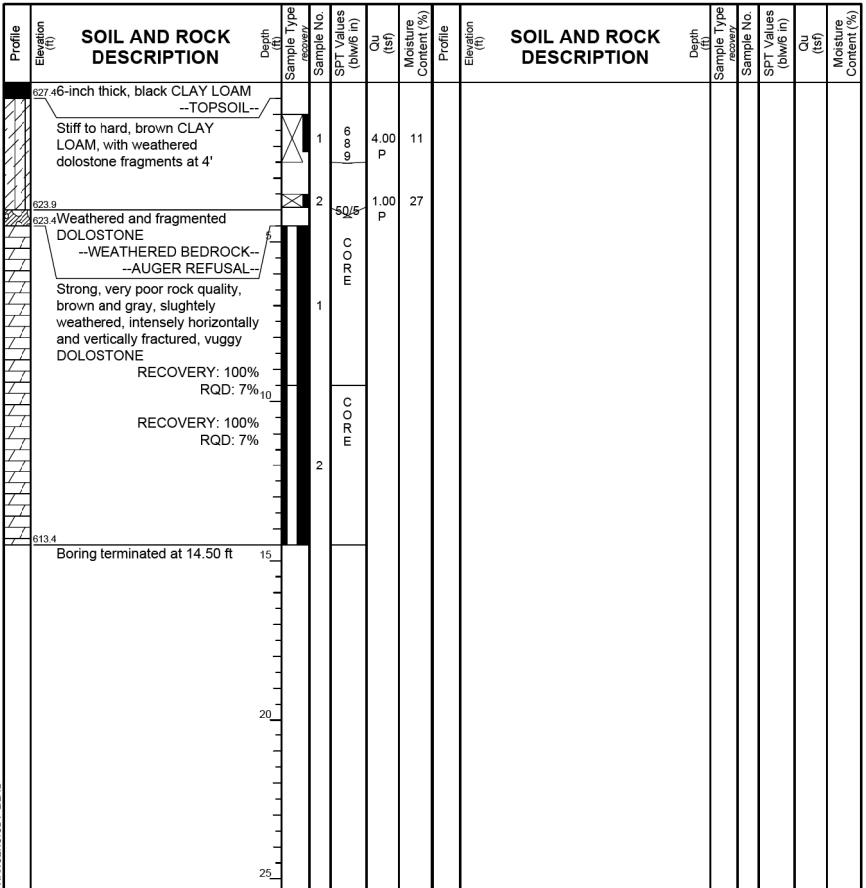
GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-27-2011	Complete Drilling	12-27-2011	While Drilling	▼	DRY	
Drilling Contractor	WTS	Drill Rig	D-50 ATV	At Completion of Drilling	▼	Washed	
Driller	K & K	Logger	A. Kurnia	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.							

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BORING LOG IJ-03 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 627.92 ft
 North: 1767656.98 ft
 East: 1076888.16 ft
 Station: 19+95
 Offset: 56.6 RT



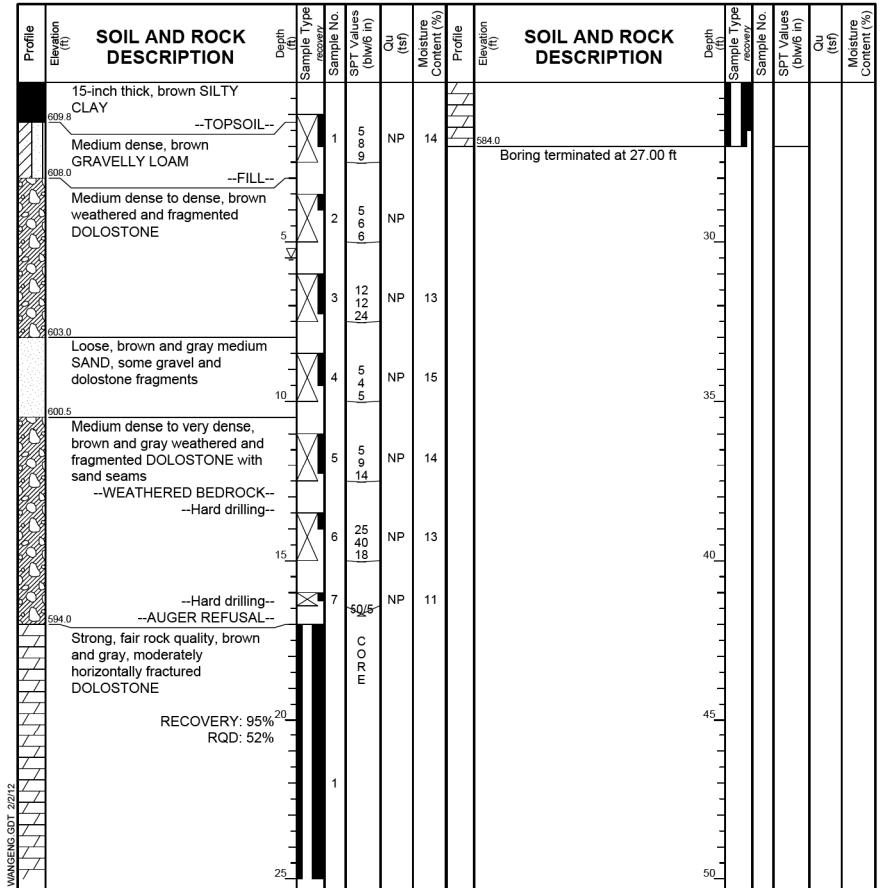
GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-27-2011	Complete Drilling	12-27-2011	While Drilling	▼	DRY	
Drilling Contractor	WTS	Drill Rig	D-50 ATV	At Completion of Drilling	▼	Washed	
Driller	K & K	Logger	A. Kurnia	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.							

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BORING LOG IJ-04 Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 611.00 ft
 North: 1768060.69 ft
 East: 1076731.78 ft
 Station: 304+48
 Offset: 72.0 RT



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-22-2011	Complete Drilling	12-22-2011	While Drilling	▼	5.50 ft	
Drilling Contractor	WTS	Drill Rig	D-50 ATV	At Completion of Drilling	▼	Washed	
Driller	K & K	Logger	B. Wilson	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.							



USER NAME = rdenley	DESIGNED - SMY	REVISED -
PLOT SCALE = 0:2.0000 '1" = 10'	CHECKED - BWS	REVISED -
PLOT DATE = 2/13/2012	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	81
CONTRACT NO. 60P56				

SHEET NO. S-14 OF S-17 SHEETS

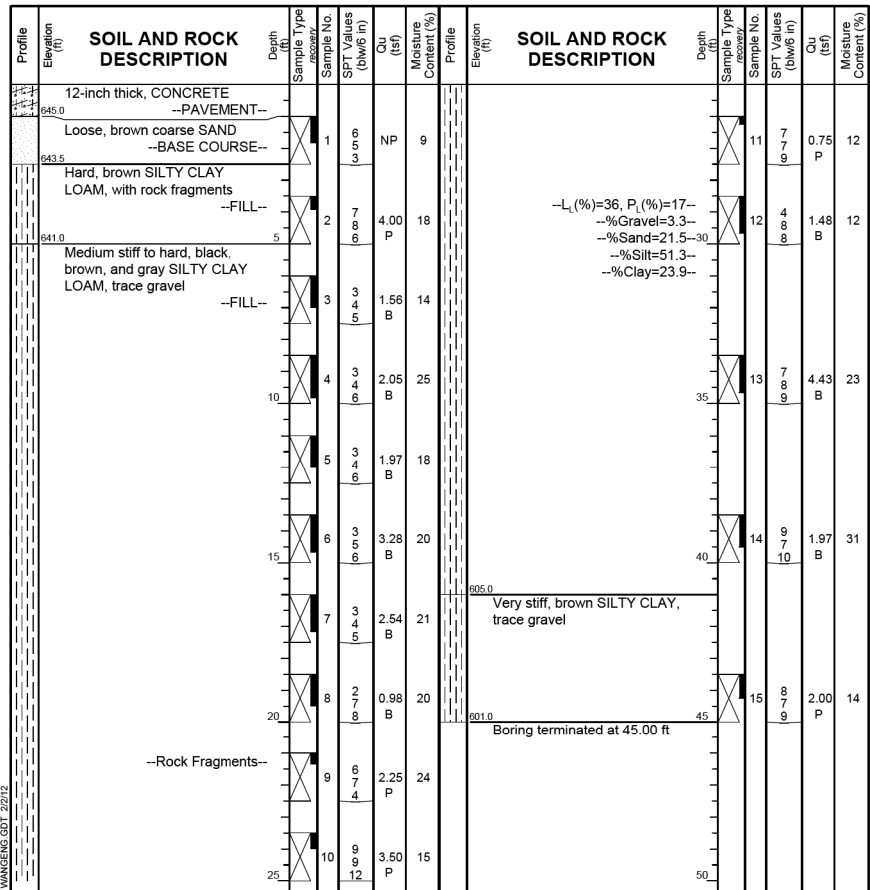
ILLINOIS FED. AID PROJECT

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BORING LOG KL-01

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 645.98 ft
 North: 1768433.79 ft
 East: 1077888.51 ft
 Station: 678+72
 Offset: 62.3 LT



GENERAL NOTES

Begin Drilling 12-28-2011 Complete Drilling 12-28-2011
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR
 Driller R & N Logger N. Boddy Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

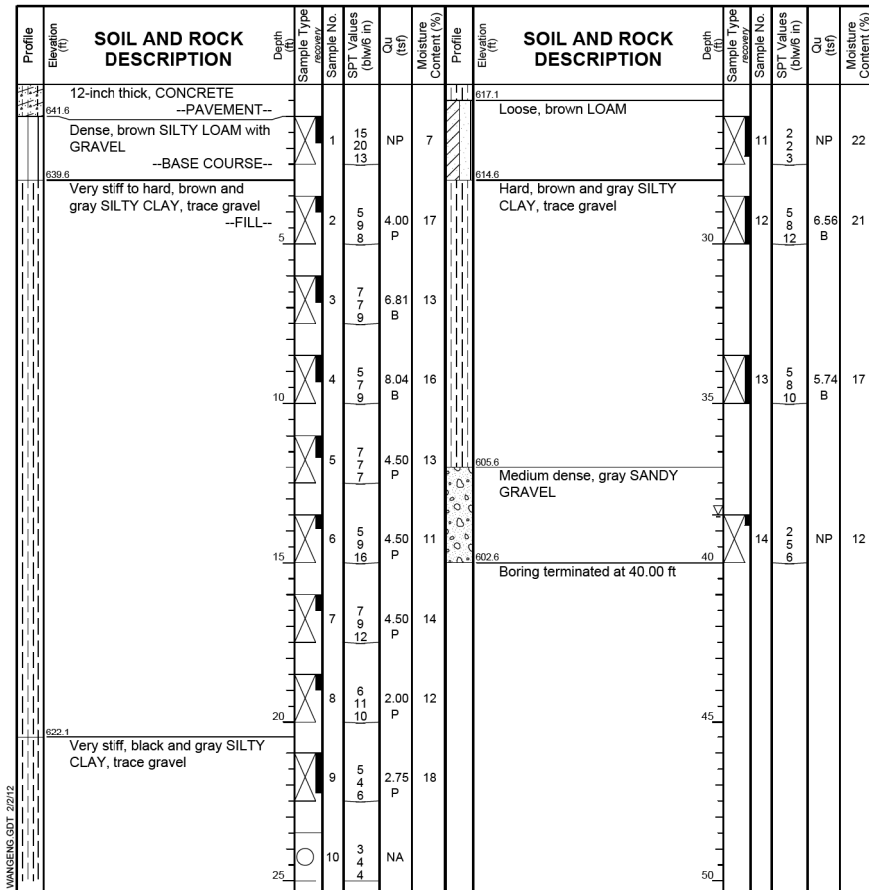
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG KL-02

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 642.60 ft
 North: 1768981.59 ft
 East: 1078015.68 ft
 Station: 710+03
 Offset: 61.2 LT



GENERAL NOTES

Begin Drilling 12-27-2011 Complete Drilling 12-27-2011
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR
 Driller R & N Logger N. Boddy Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling 38.50 ft
 At Completion of Drilling Washed
 Time After Drilling NA
 Depth to Water NA

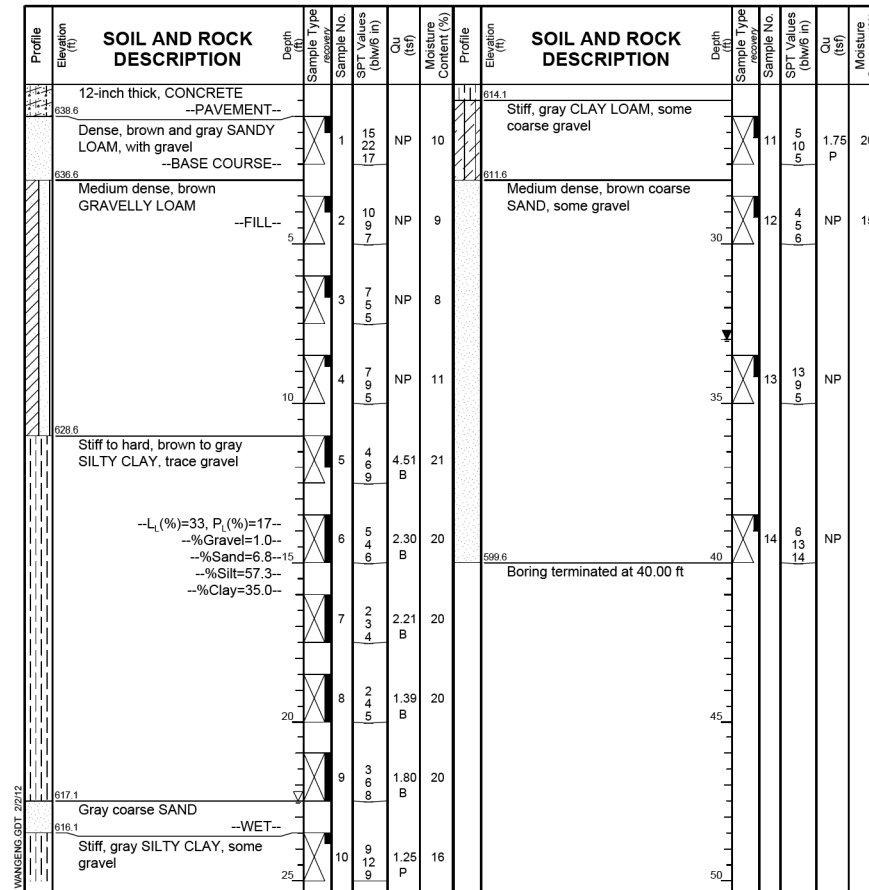
The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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BORING LOG KL-03

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 639.62 ft
 North: 1769335.50 ft
 East: 1078095.92 ft
 Station: 713+66
 Offset: 57.0 LT



GENERAL NOTES

Begin Drilling 12-27-2011 Complete Drilling 12-27-2011
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR
 Driller R & N Logger N. Boddy Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling 22.50 ft
 At Completion of Drilling 33.00 ft
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

N:\PROJECTS\0003384\0006_High_West_Design\Structural\CAD\0003384_06_15_Soil_Borings_6.dgn



USER NAME = rdonley	DESIGNED - SMY	REVISED -
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	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

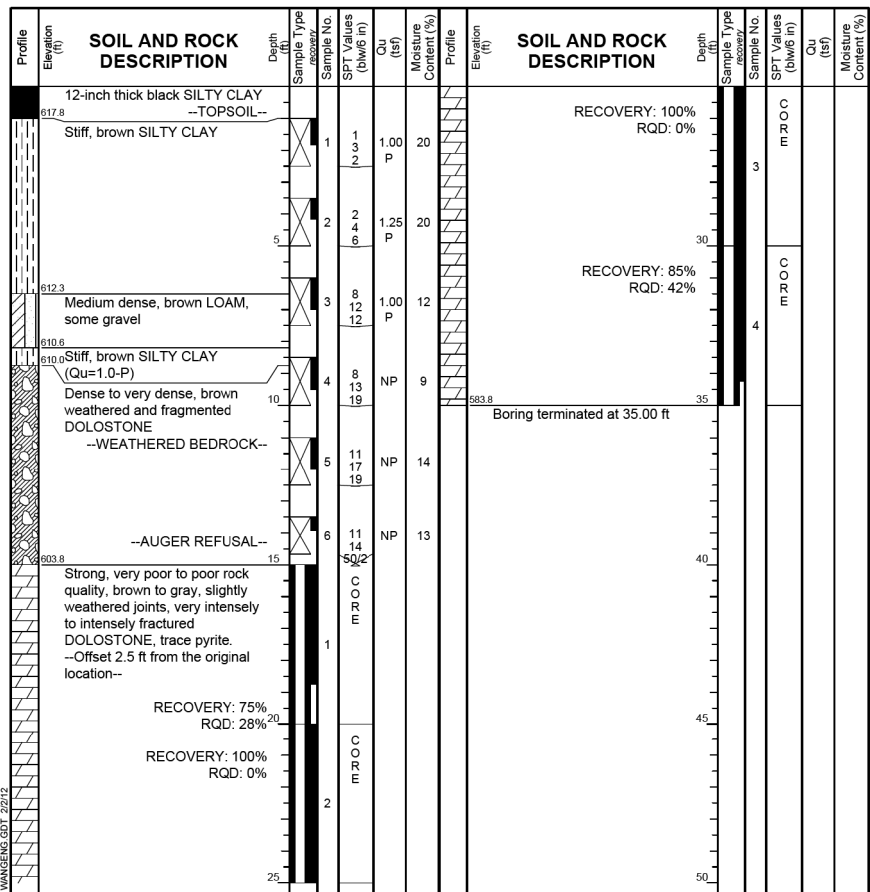
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	82
CONTRACT NO. 60P56				
ILLINOIS FED. AID PROJECT				

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BORING LOG MN-01

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 618.79 ft
 North: 1768071.28 ft
 East: 1077952.70 ft
 Station: 675+50
 Offset: 112.7 RT



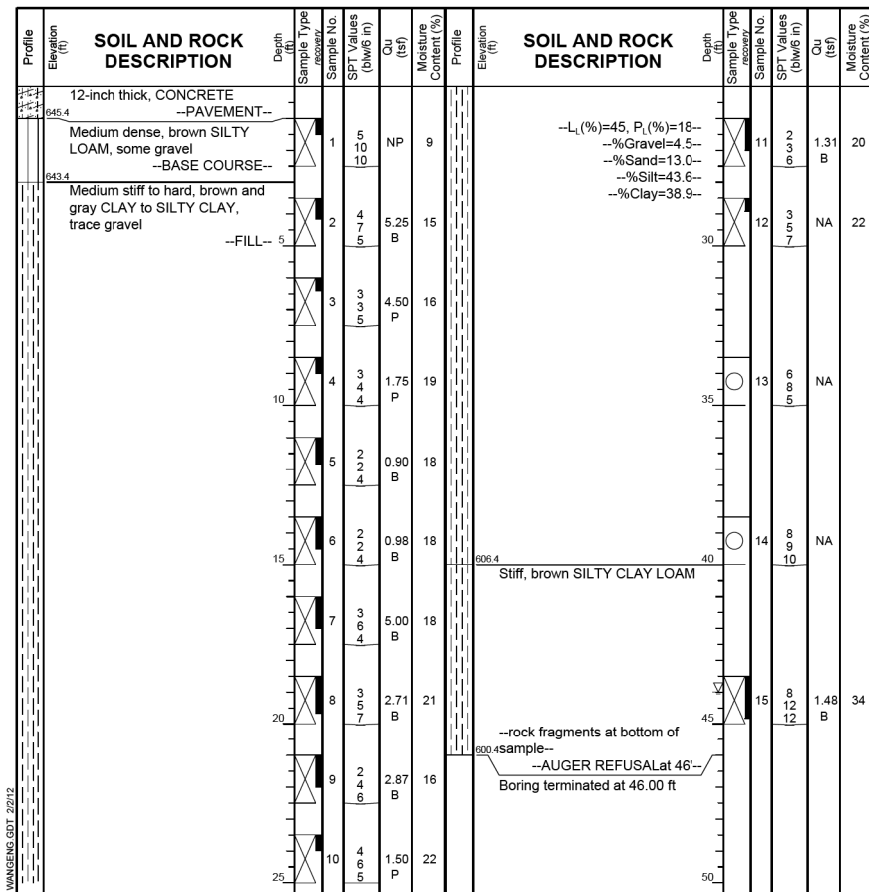
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-21-2011	Complete Drilling	12-21-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57 TMR
Driller	R & N	Logger	N. Boddy
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA

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BORING LOG MN-02

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 646.42 ft
 North: 1768661.16 ft
 East: 1078076.87 ft
 Station: 707+02
 Offset: 65.9 RT



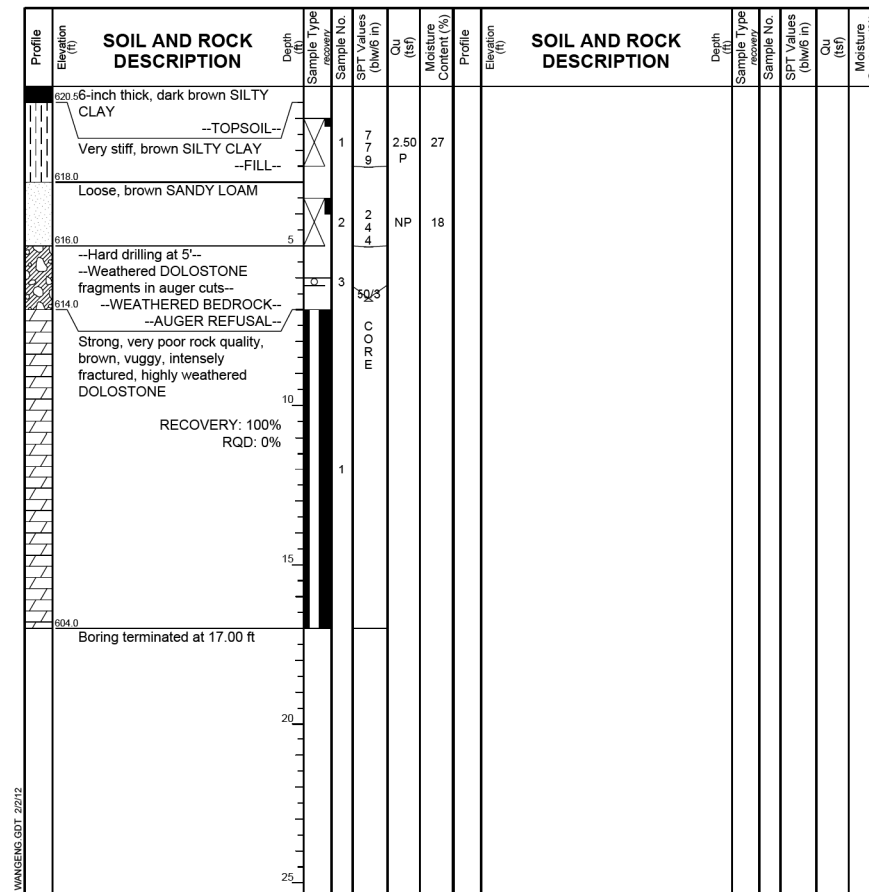
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-29-2011	Complete Drilling	12-29-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57 TMR
Driller	R & N	Logger	N. Boddy
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA

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BORING LOG QR-01

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 620.99 ft
 North: 1767679.51 ft
 East: 1078132.51 ft
 Station: 21+51
 Offset: 53.3 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	01-09-2012	Complete Drilling	01-09-2012
Drilling Contractor	WTS	Drill Rig	D-50 ATV
Driller	K & R	Logger	F. Bozga
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25 IDA HSA, Backfilled upon completion	Depth to Water	NA

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PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	83
CONTRACT NO. 60P56				

SHEET NO. S-16 OF S-17 SHEETS

ILLINOIS FED. AID PROJECT

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BORING LOG QR-02

Page 1 of 1

WEI Job No.: 555-14-05
 Client: IDOT District One / Region One
 Project: HMLT I-80/US 30, D-91-243-11, WO 5
 Location: T35N, R11 E, Section 17

Datum: NGVD
 Elevation: 641.58 ft
 North: 1767208.97 ft
 East: 1078118.62 ft
 Station: 34+52
 Offset: 56.7 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
641.58	0.4'-2-inch thick brown SILTY CLAY -TOPSOIL-												
	Medium stiff to very stiff, brown SILTY CLAY		1	4.4	0.75	33							
			2	7.0	3.69	25							
636.1	Medium stiff, brown CLAY												
635	LOAM, trace gravel		3	7.0	0.50	20							
	-L ₁ (%)=38, P ₁ (%)=17- -%Gravel=3.2- -%Sand=36.4- -%Silt=35.4- -%Clay=25.1-		4	5		NP							
	Medium dense to very dense, brown weathered DOLOSTONE -WEATHERED BEDROCK-		5	50		NP							
			6	30		NP							
626.6	Strong, poor rock quality, brown to gray, moderately weathered to fresh, vuggy, moderately horizontally and vertically fractured DOLOSTONE												
	Run 1: 15.0' to 25.0' RECOVERY: 100% RQD: 45%		1										
616.6	Boring terminated at 25.00 ft												

GENERAL NOTES

Begin Drilling 12-21-2011 Complete Drilling 12-21-2011
 Drilling Contractor WTS Drill Rg D-50 ATV
 Driller K & K Logger B. Wilson Checked by C. Marin
 Drilling Method 3.25 IDA HSA, Backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling Washed
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

N:\PROJECTS\0003384\006\6_High_West_Design\Structural\CAD\0003384\06_17_Soil_Borings_8.dgn

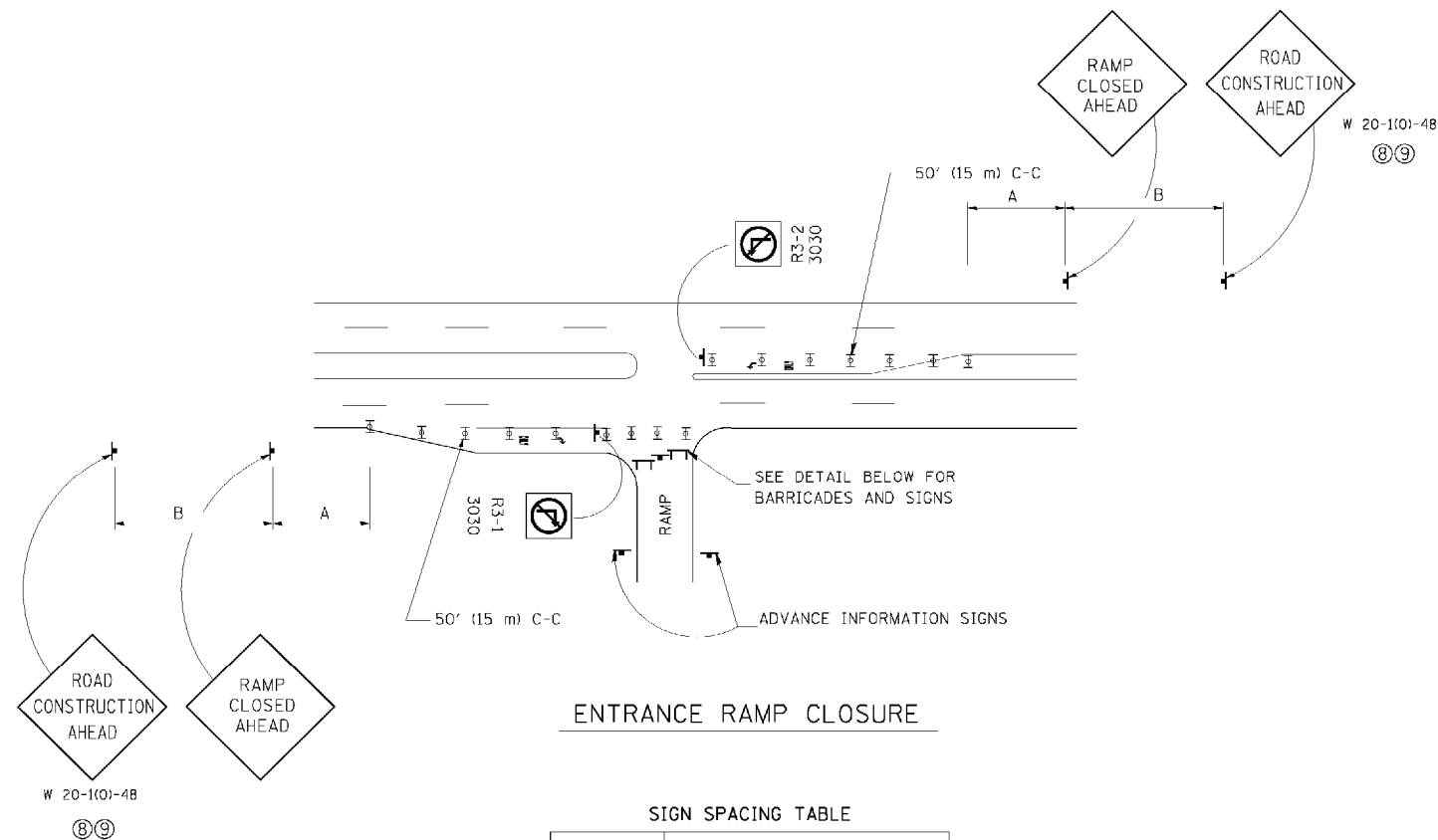


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	CHECKED - BWS	REVISED -
PLOT SCALE = 0:2,0000 '1' / 1"	DRAWN - RD	REVISED -
PLOT DATE = 2/13/2012	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 SOIL BORING LOGS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	84
CONTRACT NO. 60P56				
SHEET NO. 5-17 OF 5-17 SHEETS				
ILLINOIS FED. AID PROJECT				

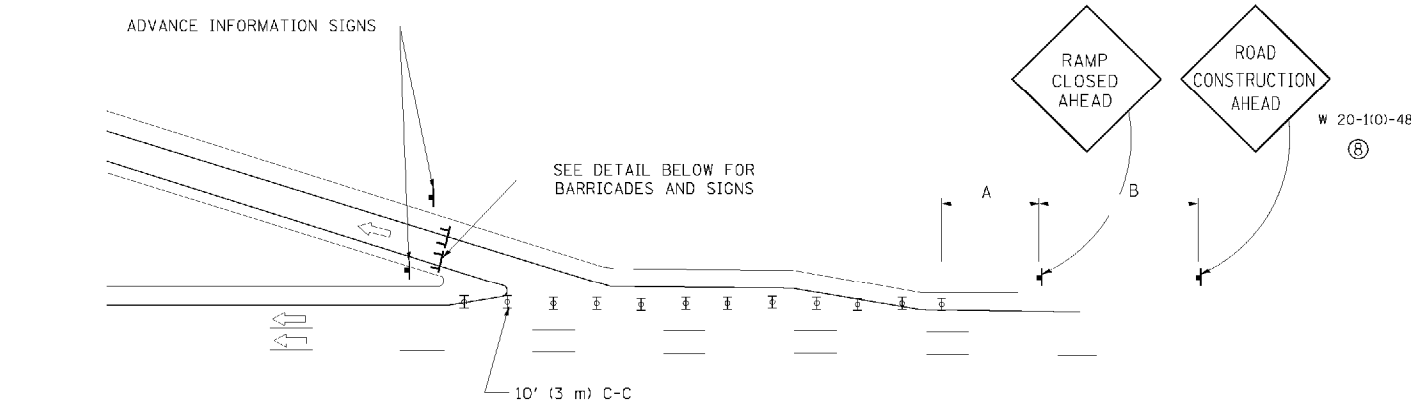


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

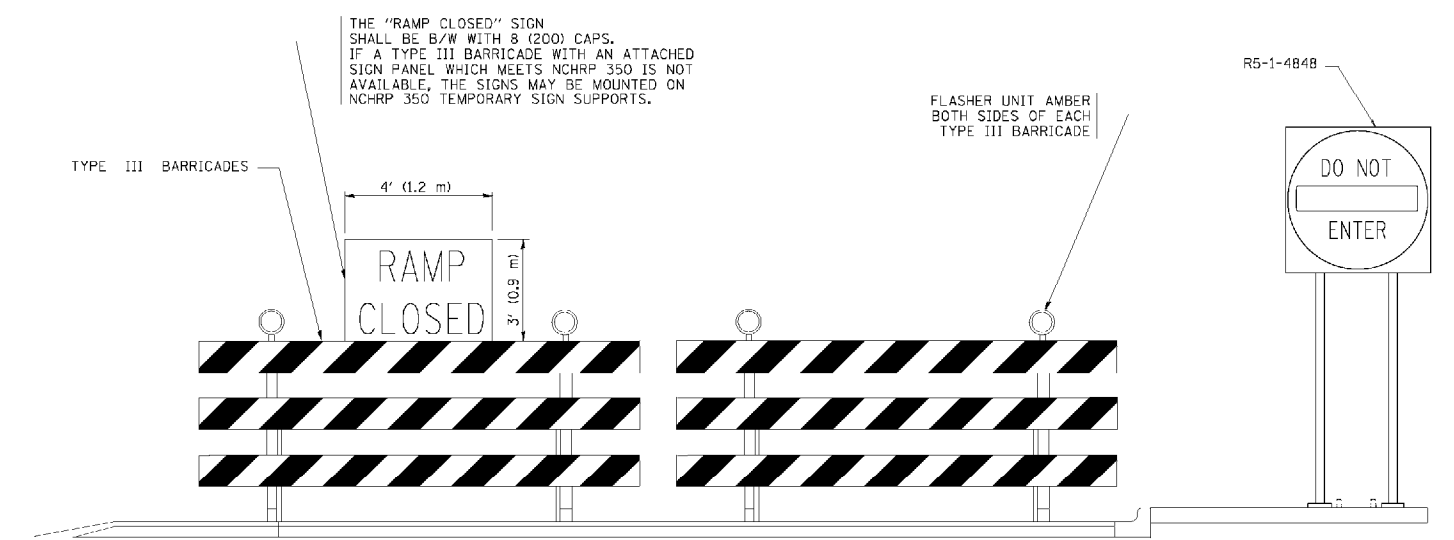
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

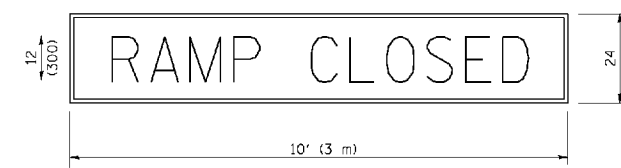
SYMBOLS

- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS

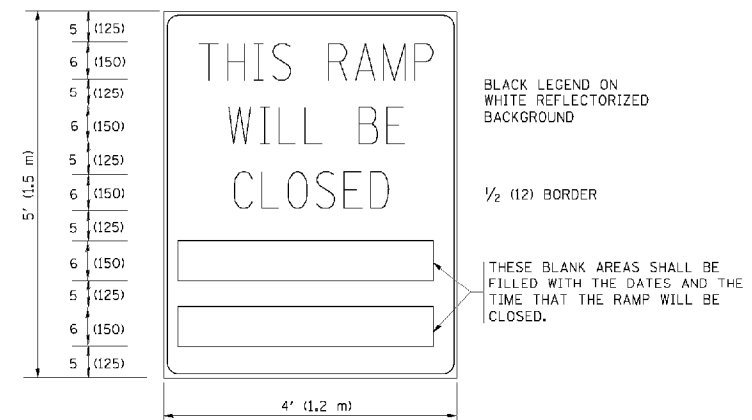
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

1/2 (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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PLOT SCALE = 50.000' / IN.
PLOT DATE = 11/3/2010

DESIGNED - DWS
DRAWN -
CHECKED -
DATE - 02-83

REVISED - DWS/JAF 12-02
REVISED - JAF 02-06
REVISED - SPB 01-07
REVISED - SPB 12-09

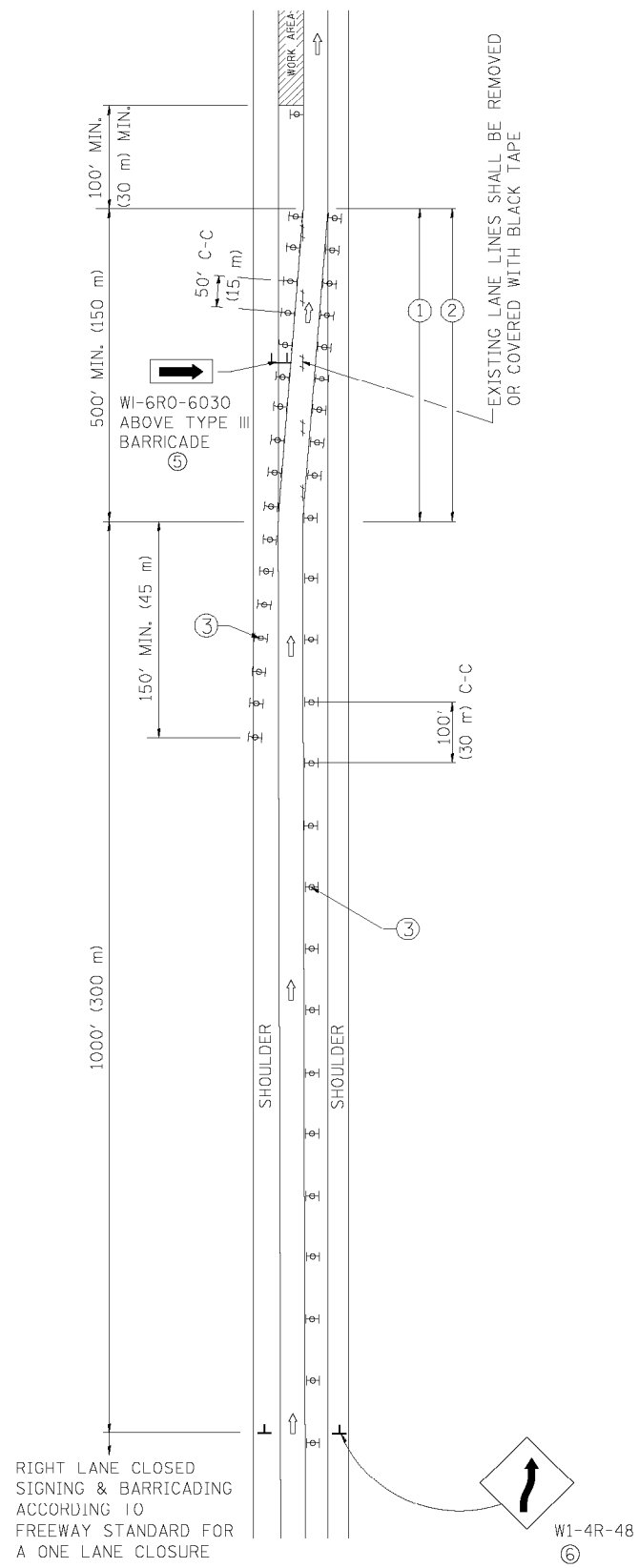
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

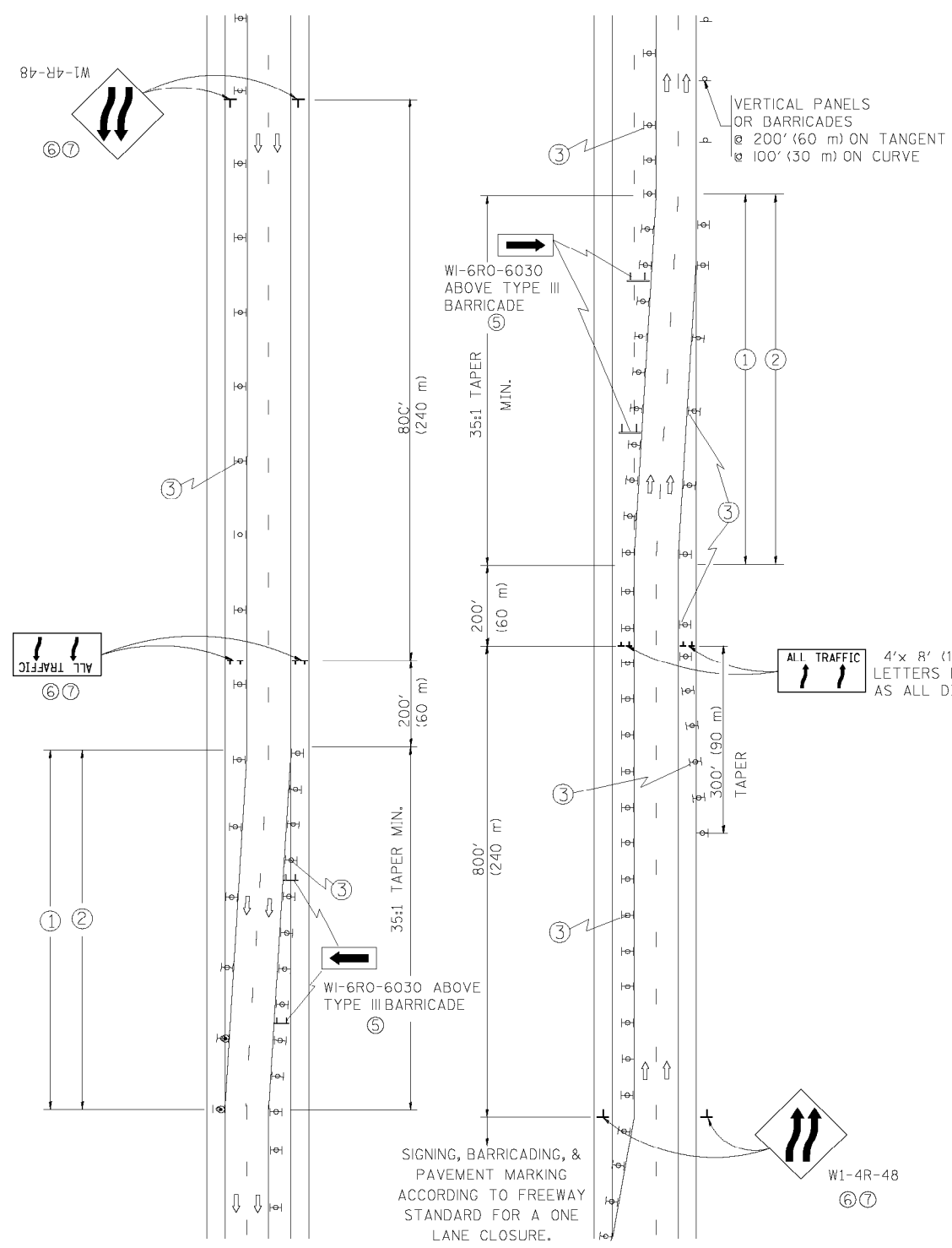
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 85
TC-08			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



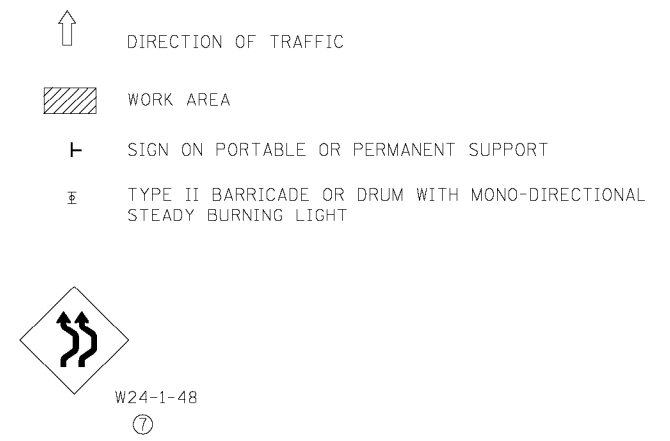
MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

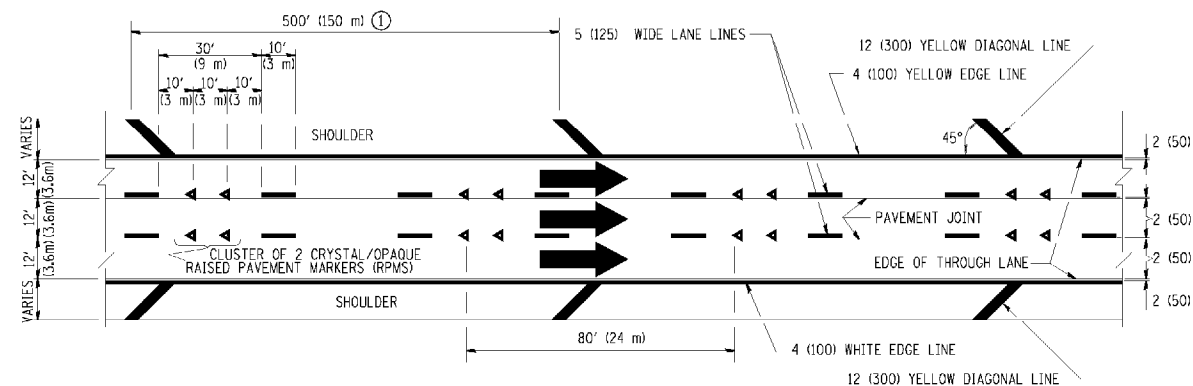
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PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - JAF 02-06
PLOT DATE = 1/26/2010	CHECKED -	REVISED - SPB 01-07
	DATE - 02-87	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

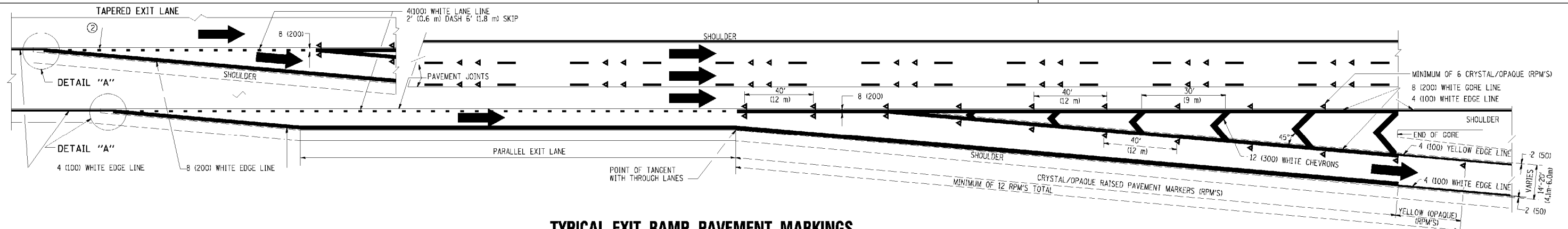
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-09			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



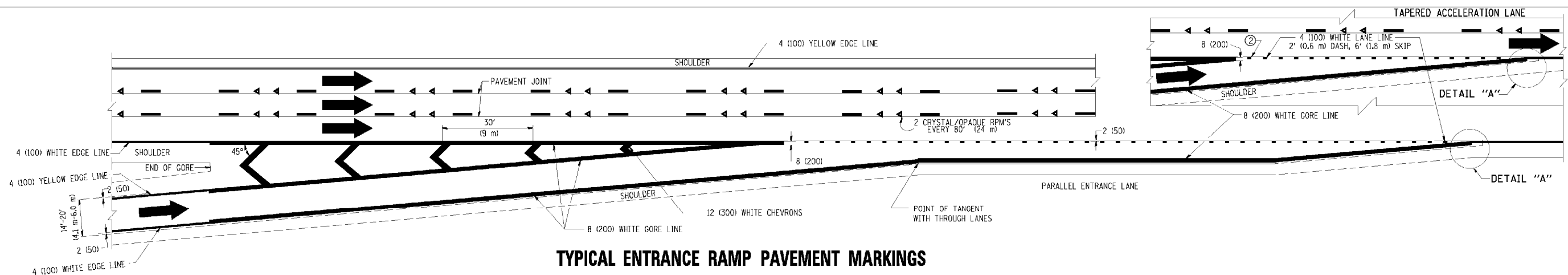
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

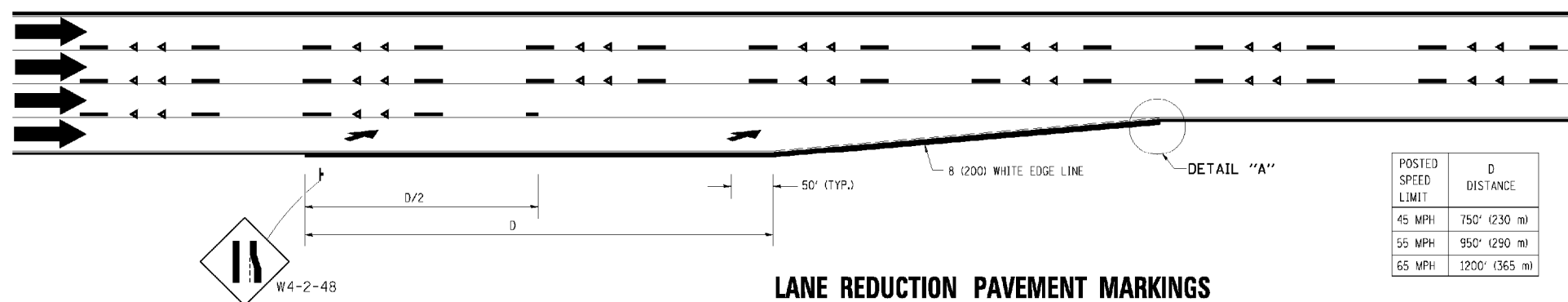
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

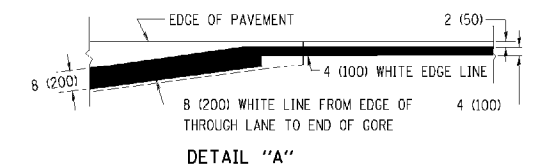


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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USER NAME = leusa
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 PLOT DATE = 1/22/2010

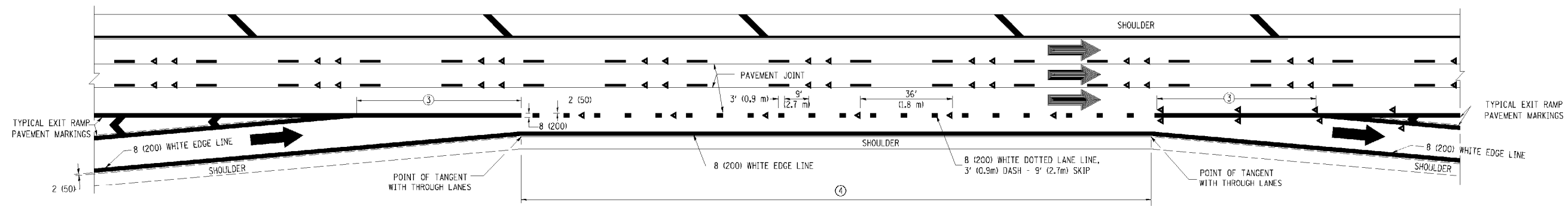
DESIGNED - D.W.S.
 DRAWN -
 CHECKED -
 DATE - 01-90

REVISED - D.W.S. 07-96
 REVISED - J.A.F. 02-06
 REVISED - S.P.B. 01-07
 REVISED - S.P.B. 01-10

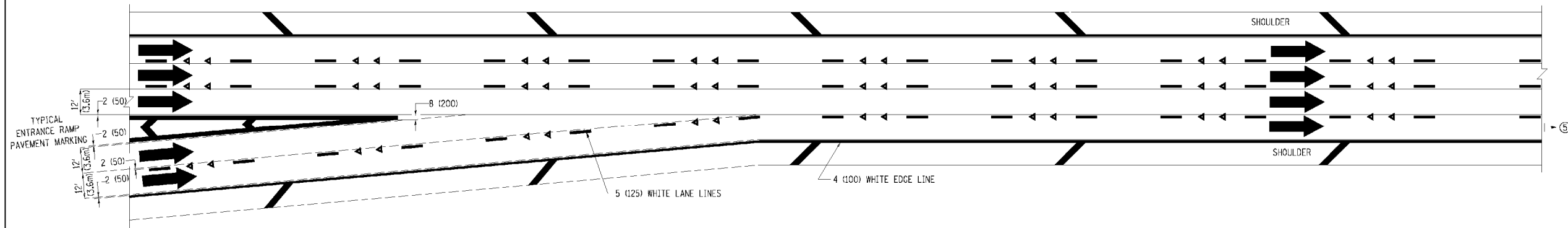
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**
 SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

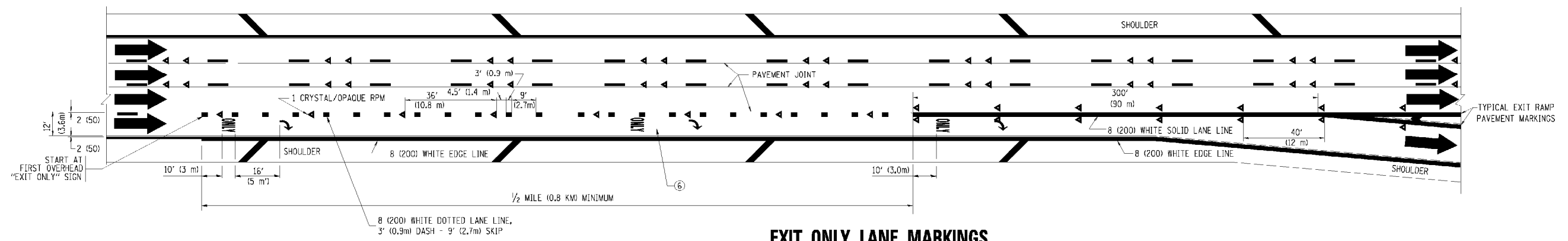
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	87
TC-12			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



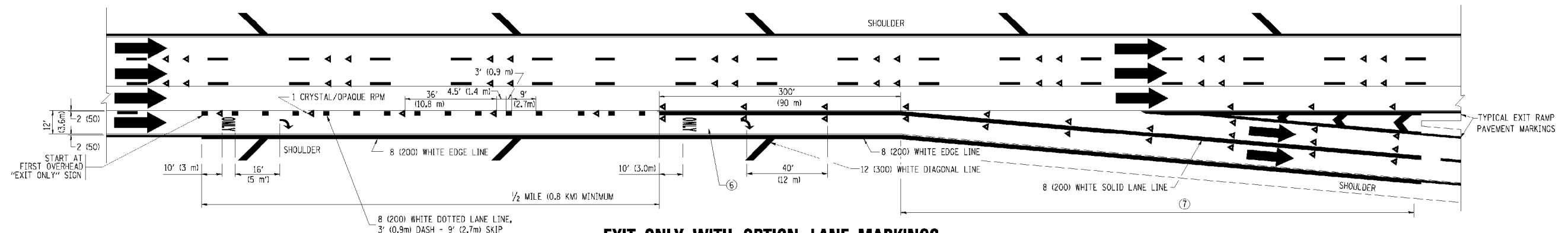
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS

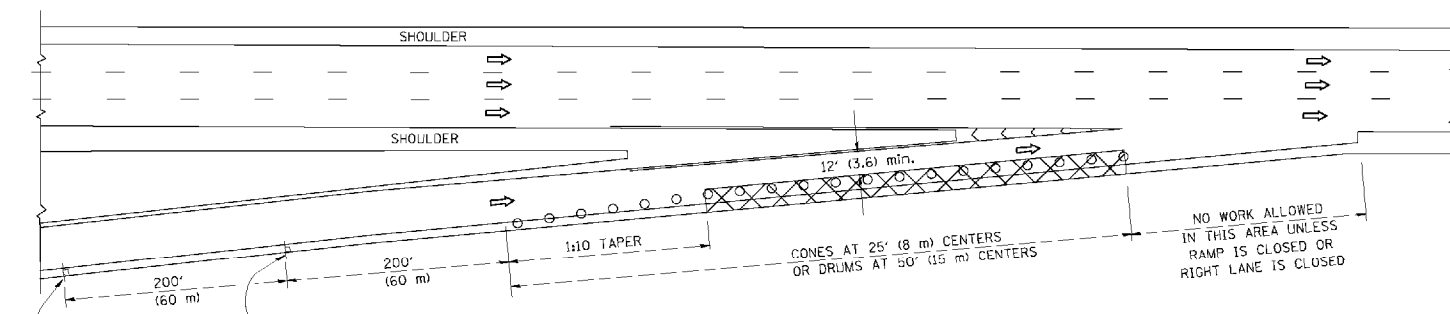


EXIT ONLY WITH OPTION LANE MARKINGS

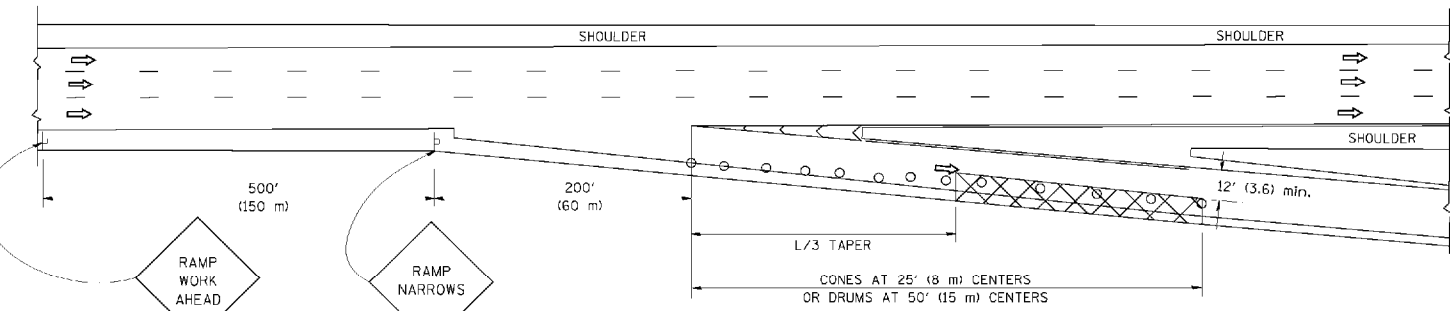
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME = c:\pwwork\PMIDOT\LEYSAD\0108315\to12.dgn	USER NAME = leusa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A. RTE. = 80	SECTION = 2011-046-L	COUNTY = WILL	TOTAL SHEETS = 106	SHEET NO. = 88
PLOT SCALE = 5/8" = 1' IN.	PI OT DATE = 1/22/2010	DRAWN -	REVISED - J.A.F. 02-06		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	TC-12				
		CHECKED -	REVISED - S.P.B. 01-07		CONTRACT NO. 60P56							
		DATE = 01-90	REVISED - S.P.B. 01-10		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

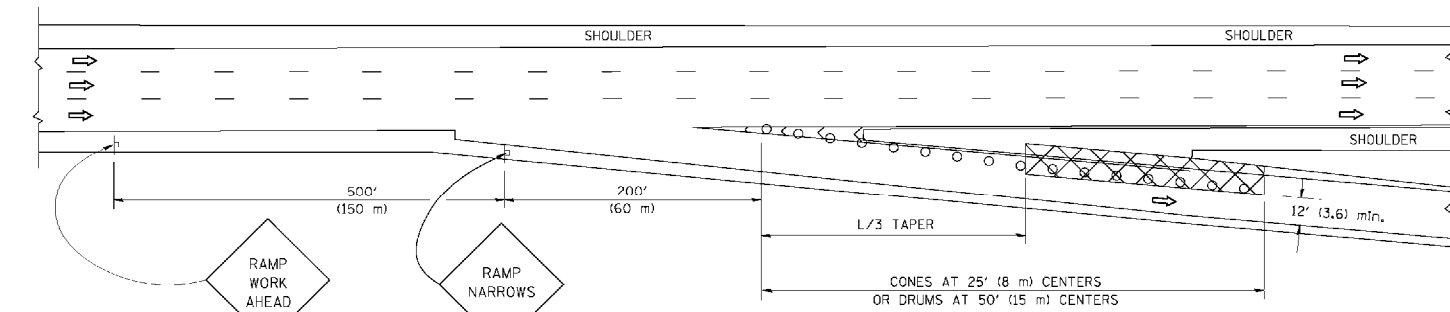
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

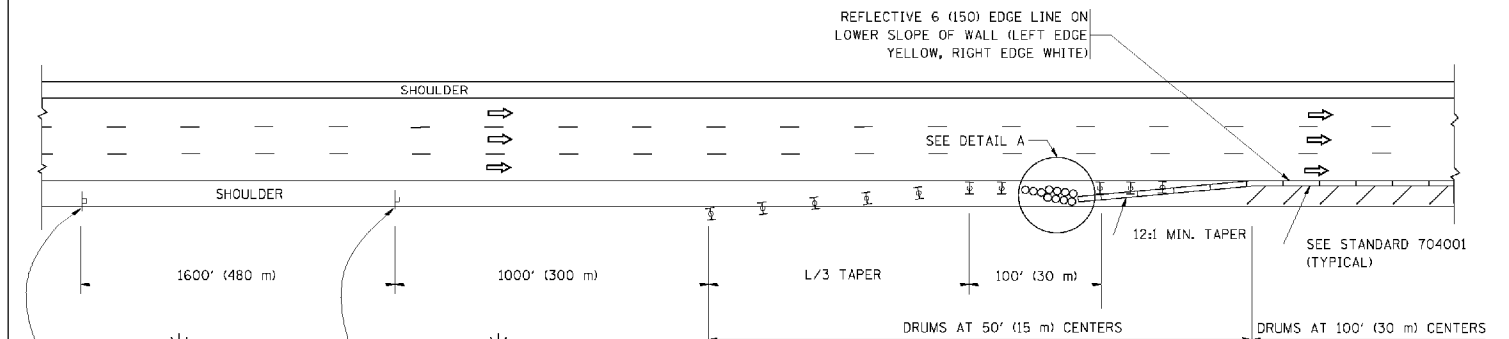
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

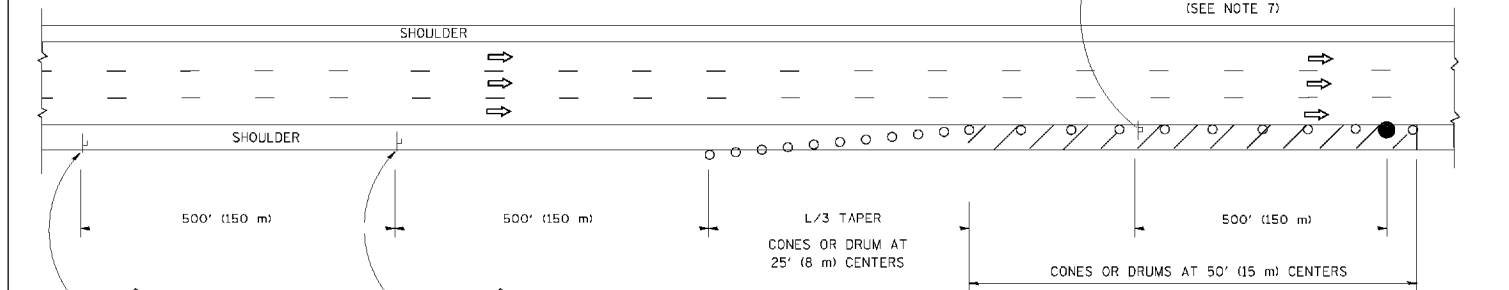
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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USER NAME = leusa

DESIGNED -

REVISED - 04-03

DRAWN - D.W.S.

REVISED - J.A.F. 12-06

PLOT SCALE - 50.0000 "/ IN.

REVISED - S.P.B. 01-07

PILOT DATE - 1/26/2010

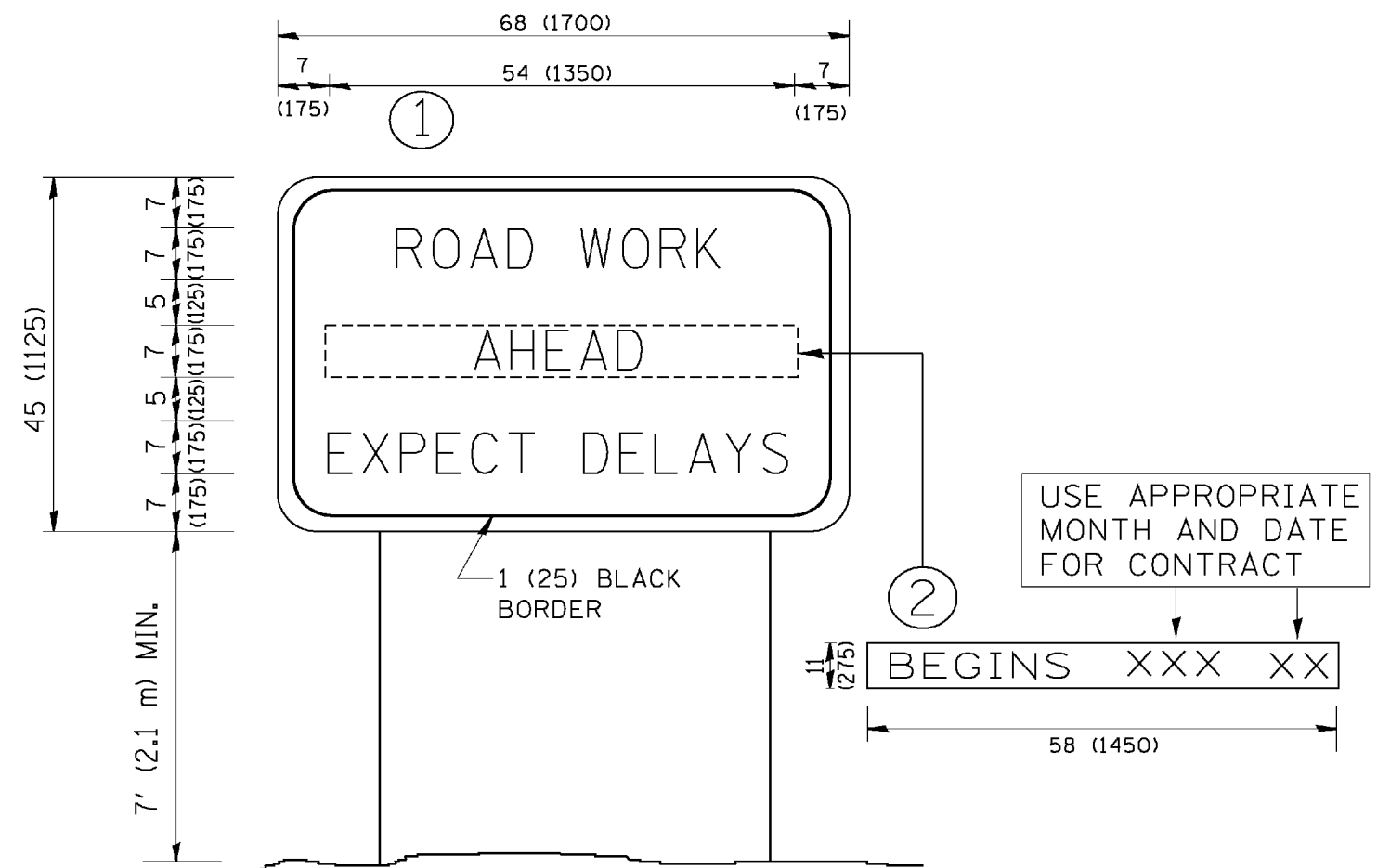
REVISED - S.P.B. 12-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 89
TC-17			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

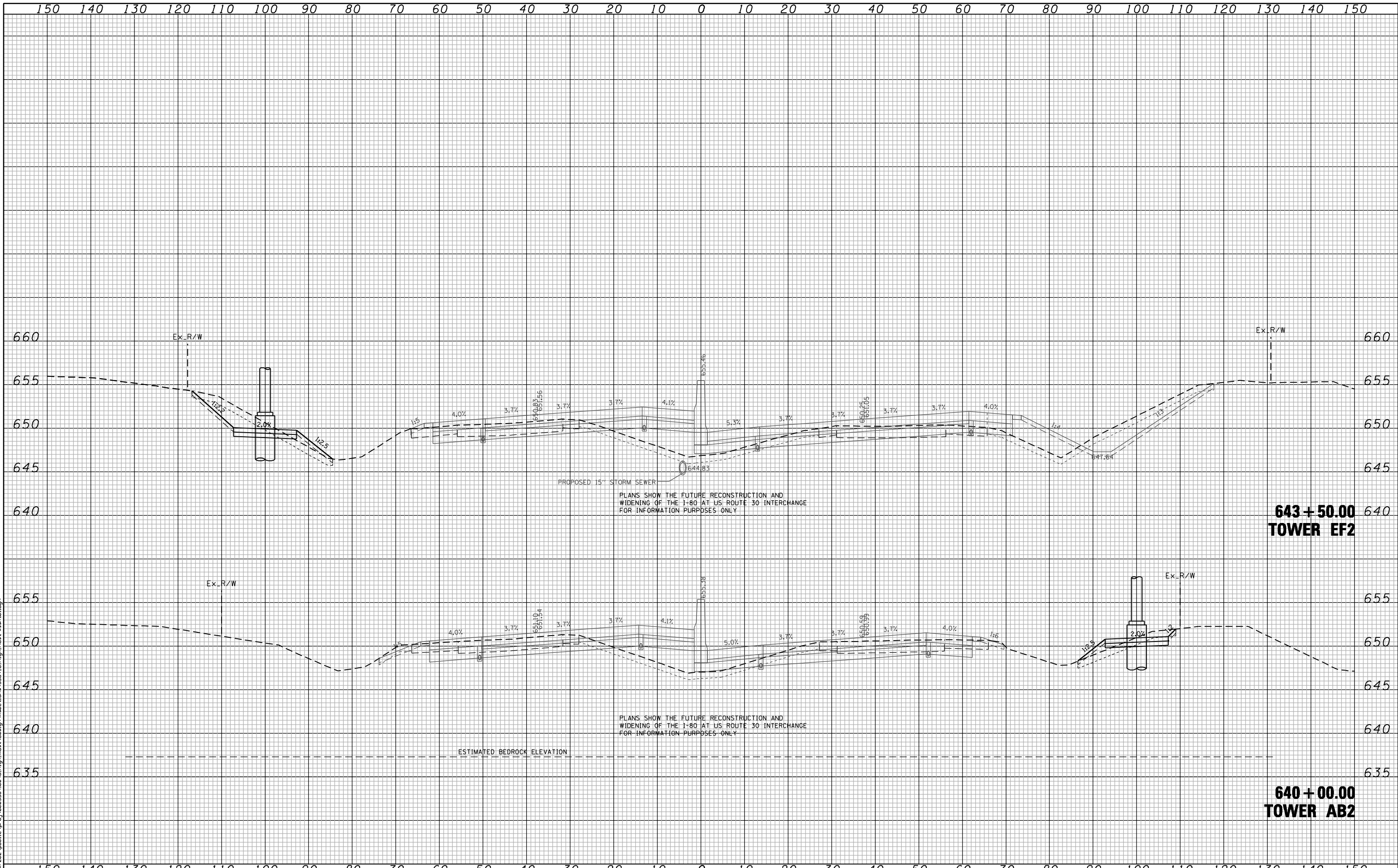
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	90
TC-22			CONTRACT NO. 60P56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME : \\svr-202-public\proj\20093384_00\6-high_mast_design\sections\3384_5_High_Mast_east_01.dgn

CG Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60658
 Tel. 773.775.4009 Fax 773.775.4014

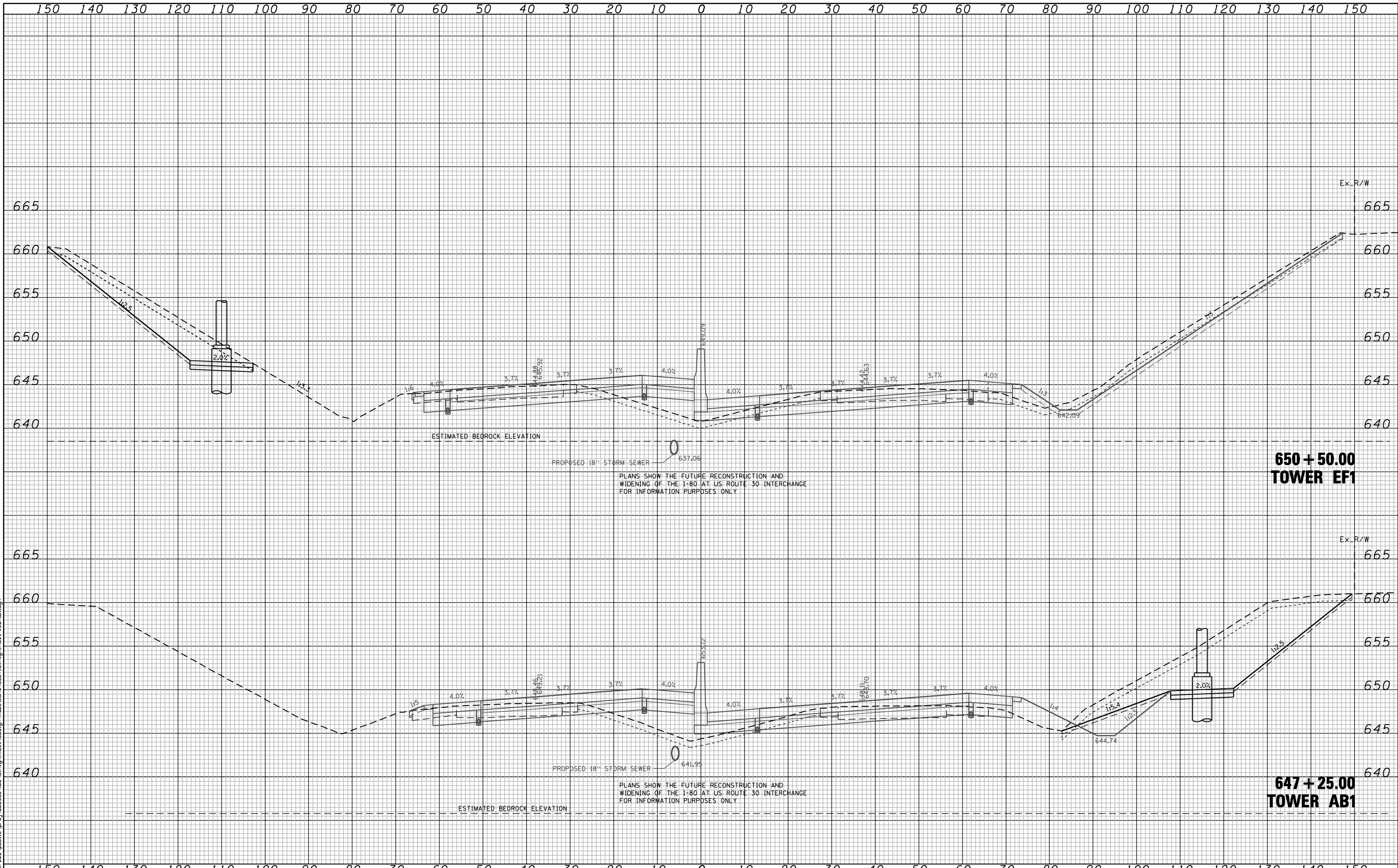
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PLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 640+00.00 TO STA. 643+50.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 91
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT U.S. ROUTE 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT U.S. ROUTE 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY

**650 + 50.00
TOWER EF1**

**647 + 25.00
TOWER AB1**

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60658
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = rrado	DESIGNED - WBL	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - WBL	REVISED -
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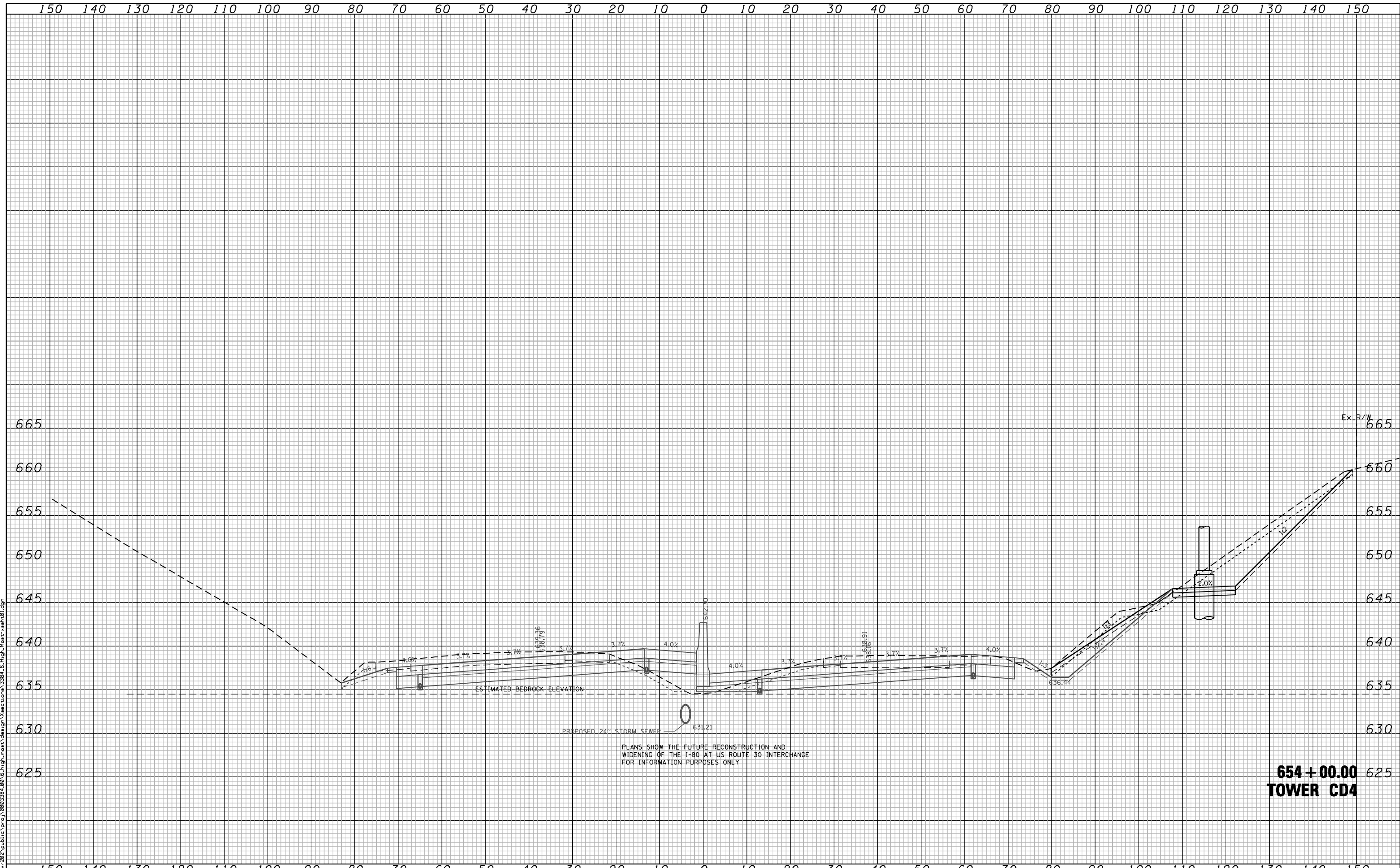
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 647+25.00 TO STA. 650+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	92
CONTRACT NO. 60P56			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

FILE NAME: \\svr-202-public\proj\0003384\001\high_mast_design\crosssections\3384_5_High_Mast_east_01.dgn



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 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60658
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = rrado	DESIGNED - WBL	REVISED -
	DRAWN - WBL	REVISED -
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PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

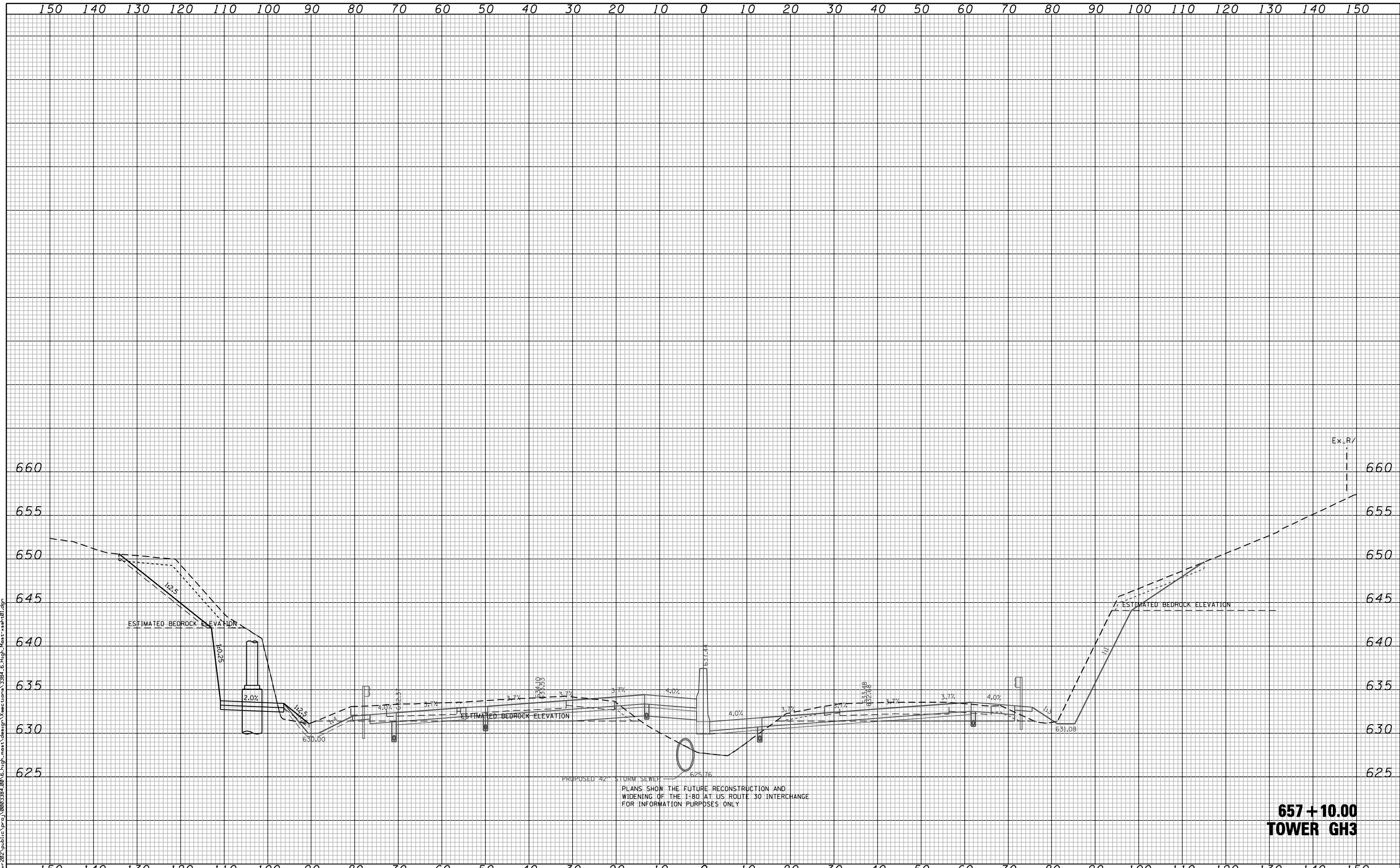
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 654+00.00 TO STA. 654+00.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 93
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

**654 + 00.00
 TOWER CD4**



**657 + 10.00
TOWER GH3**


Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.776.4009 Fax 773.776.4014

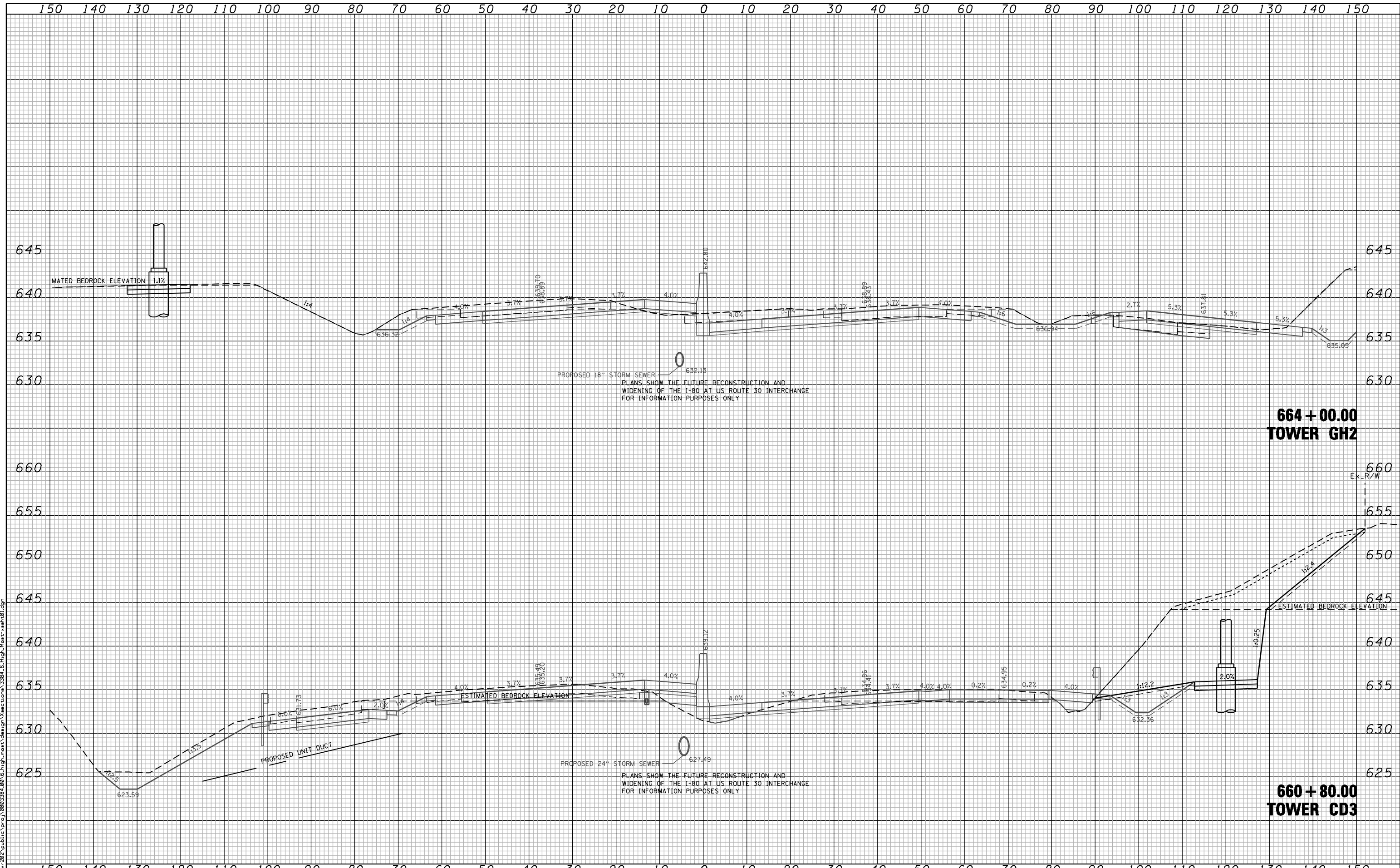
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	DRAWN - WBL	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - JMV	REVISED -
PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 657+10.00 TO STA. 657+10.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 94
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



**664 + 00.00
TOWER GH2**

**660 + 80.00
TOWER CD3**

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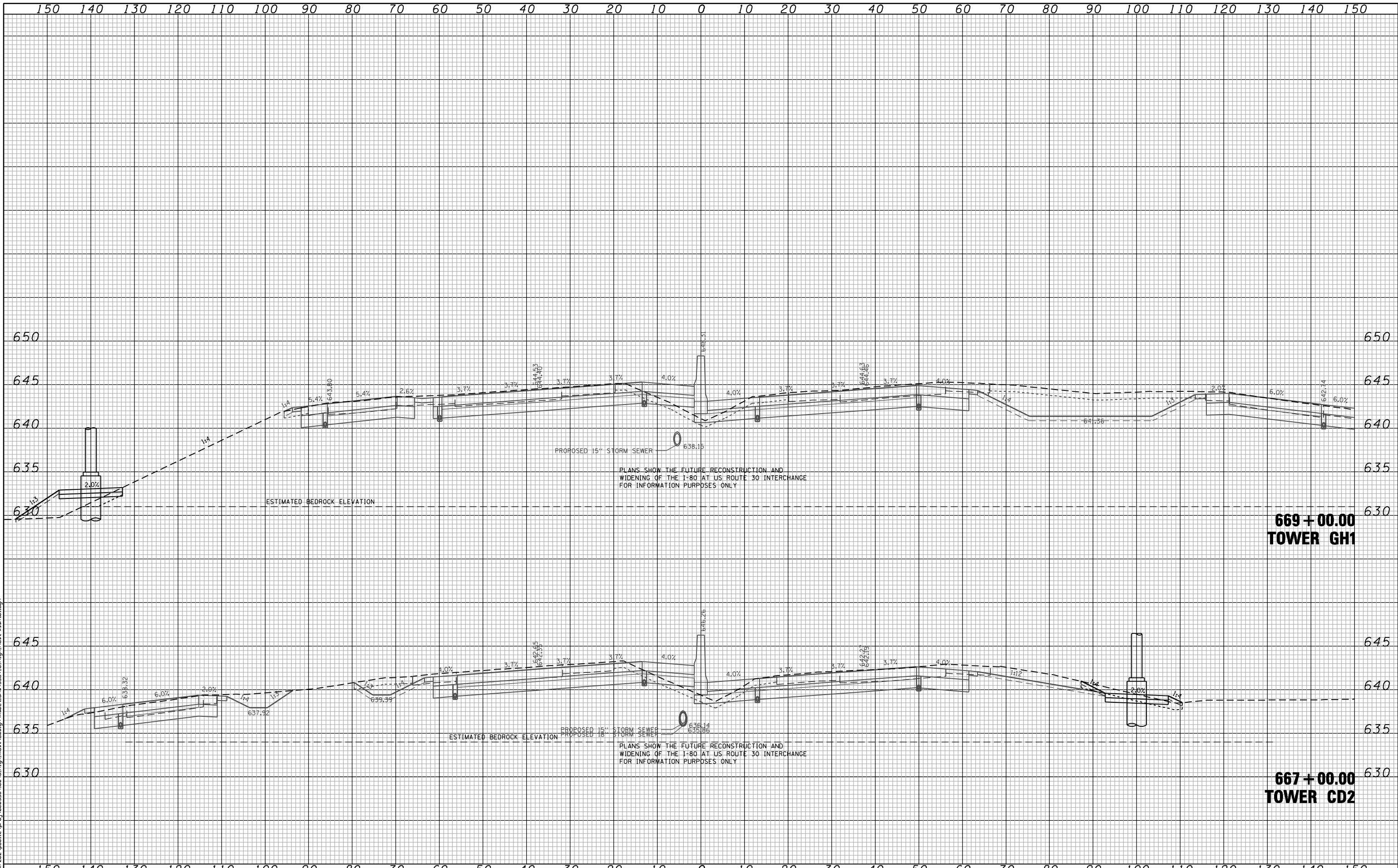
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	DATE - 02-14-2012	REVISED -

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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 660+80.00 TO STA. 664+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	95
CONTRACT NO. 60P56			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	



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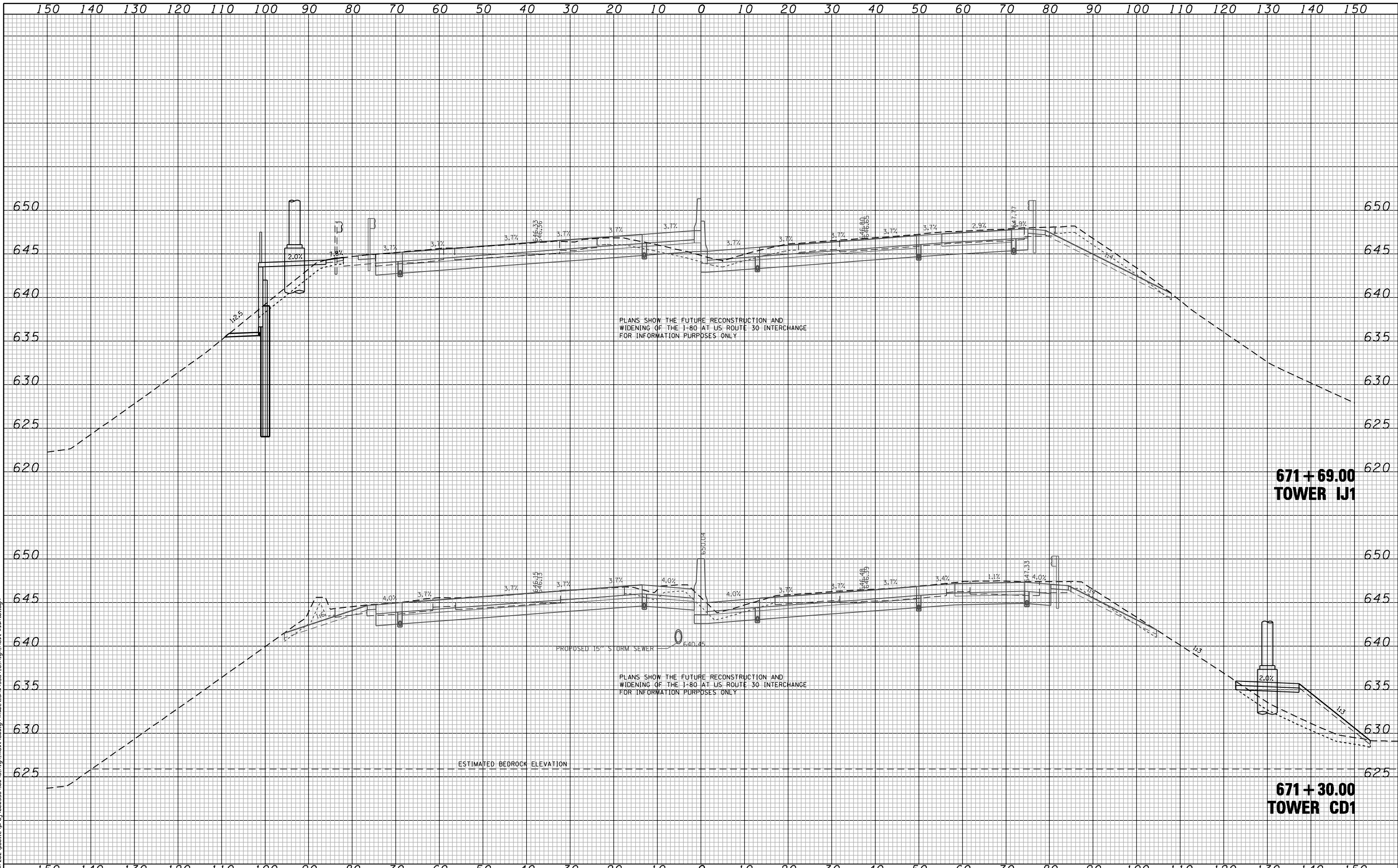
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**STATE OF ILLINOIS
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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 667+00.00 TO STA. 669+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	96
CONTRACT NO. 60P56			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	



PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US ROUTE 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY

PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT US ROUTE 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY

ESTIMATED BEDROCK ELEVATION

**671 + 69.00
TOWER IJ1**

**671 + 30.00
TOWER CD1**

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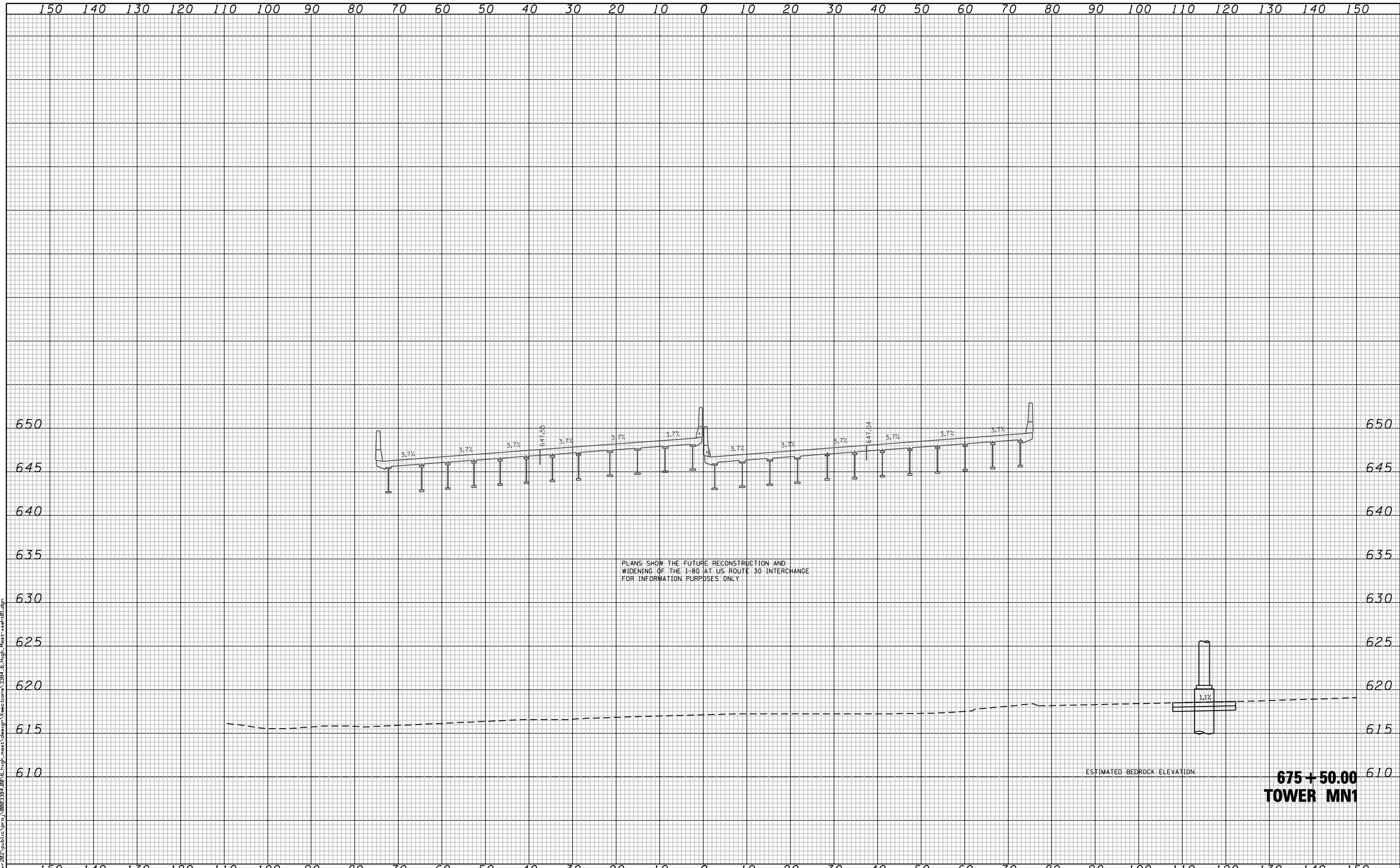
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	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 671+10.00 TO STA. 671+68.70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	97
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



**STATE OF ILLINOIS
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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

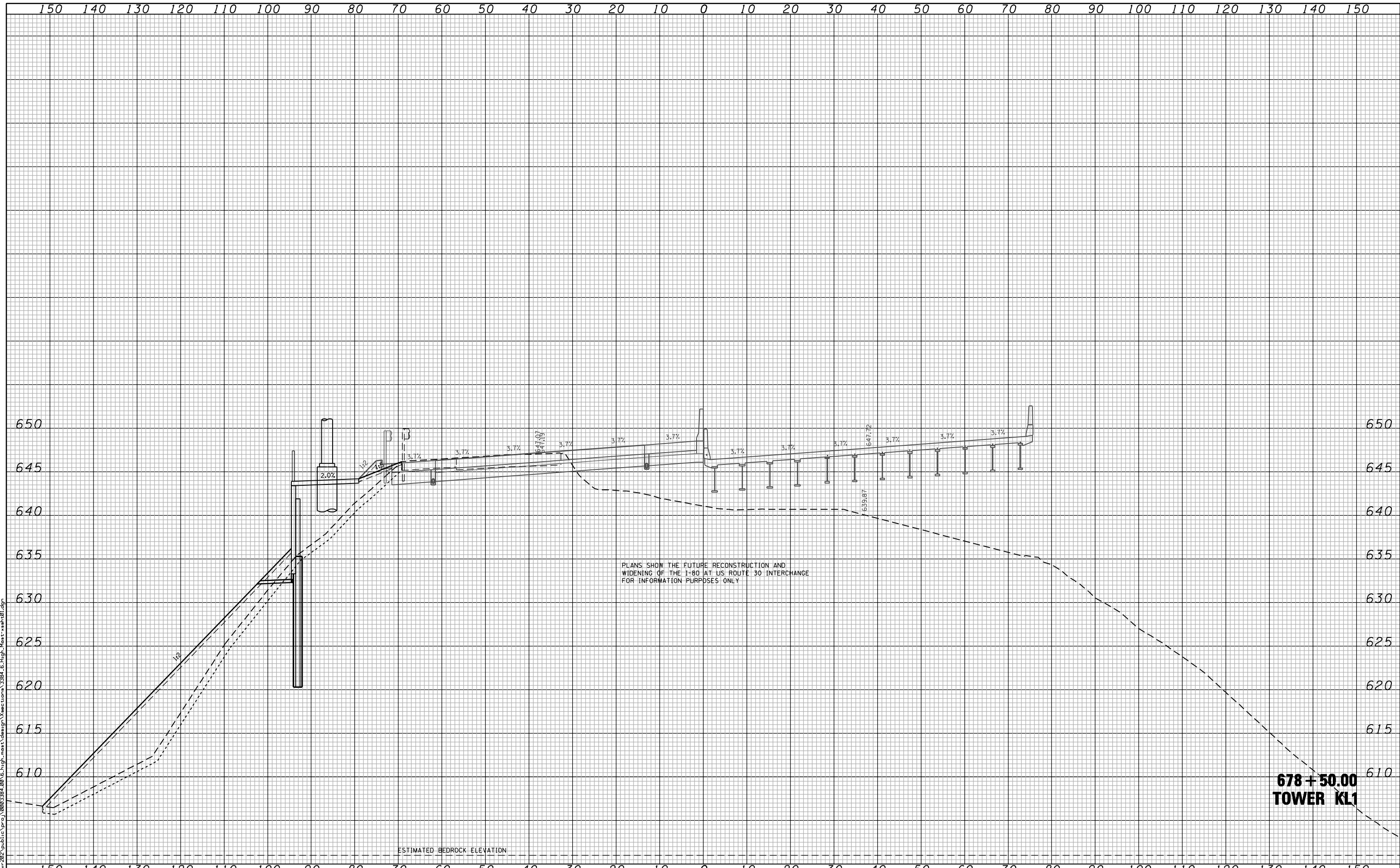
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PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

SCALE: SHEET NO. OF SHEETS STA. 675+50.00 TO STA. 675+50.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 98
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

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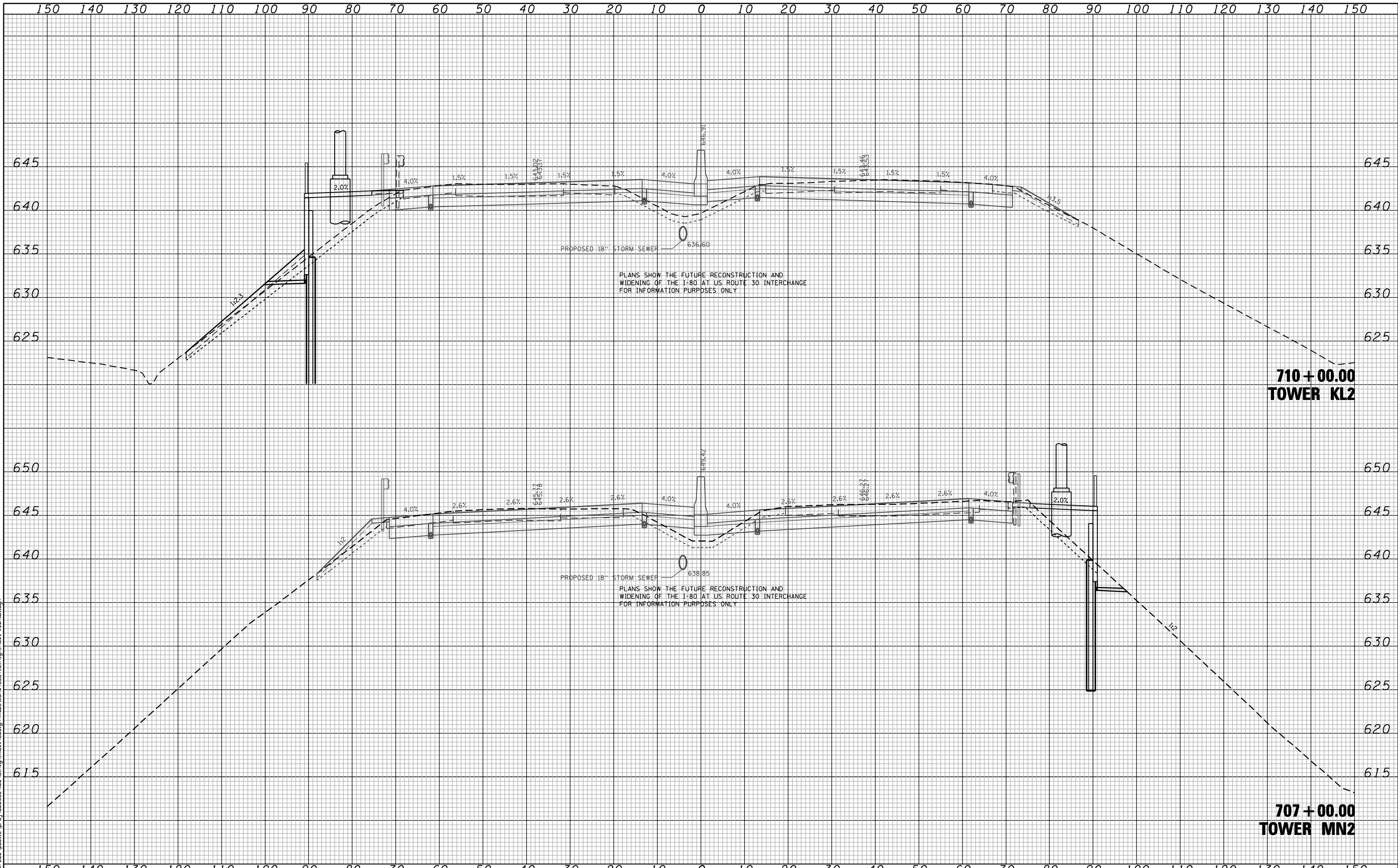
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 678+50.00 TO STA. 678+50.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 99
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



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**710 + 00.00
TOWER KL2**

**707 + 00.00
TOWER MN2**

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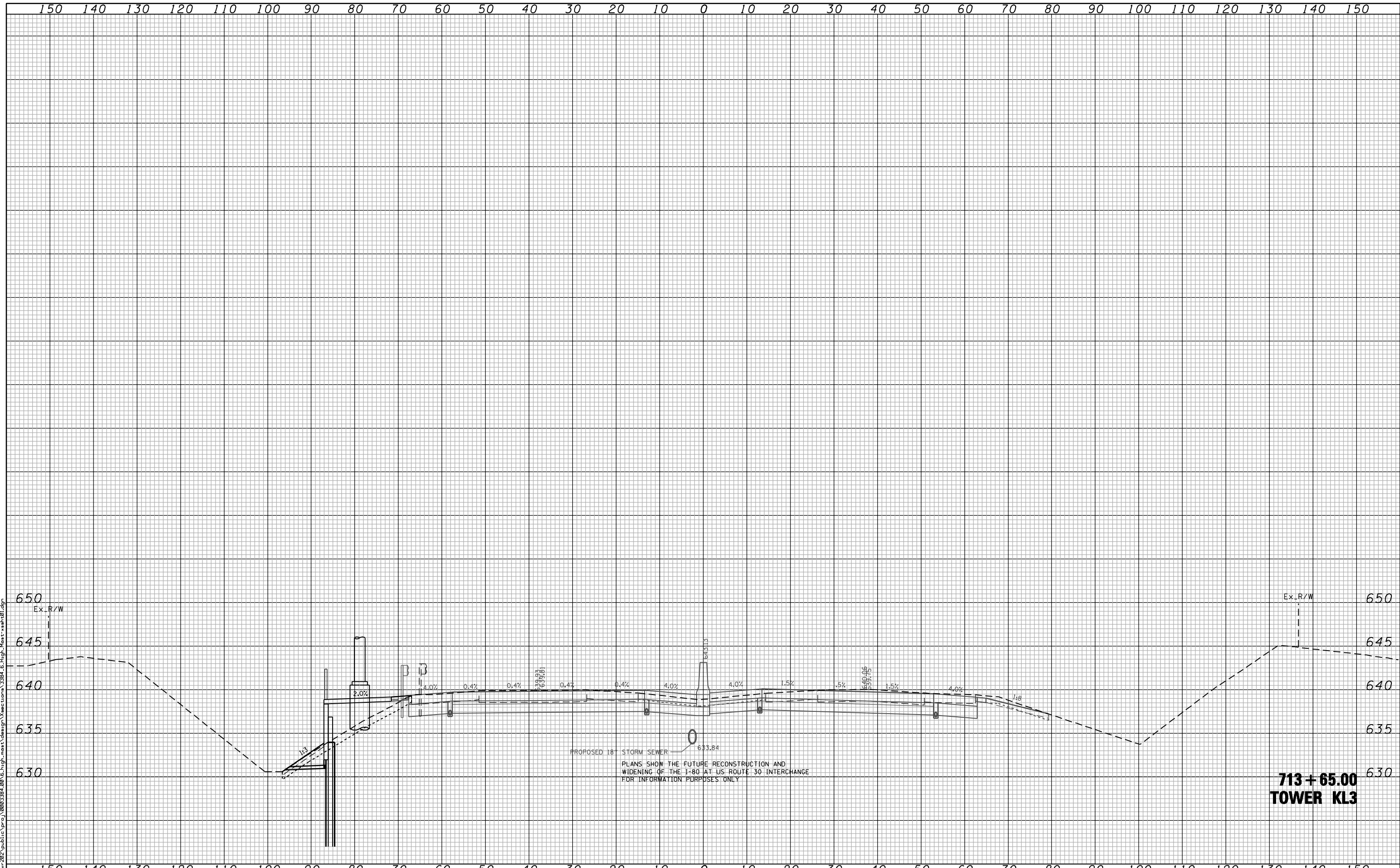
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PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 707+00.00 TO STA. 710+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2011-046-L	WILL	106	100
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



PROPOSED 18" STORM SEWER
 PLANS SHOW THE FUTURE RECONSTRUCTION AND WIDENING OF THE I-80 AT U.S. ROUTE 30 INTERCHANGE FOR INFORMATION PURPOSES ONLY

**713 + 65.00
 TOWER KL3**

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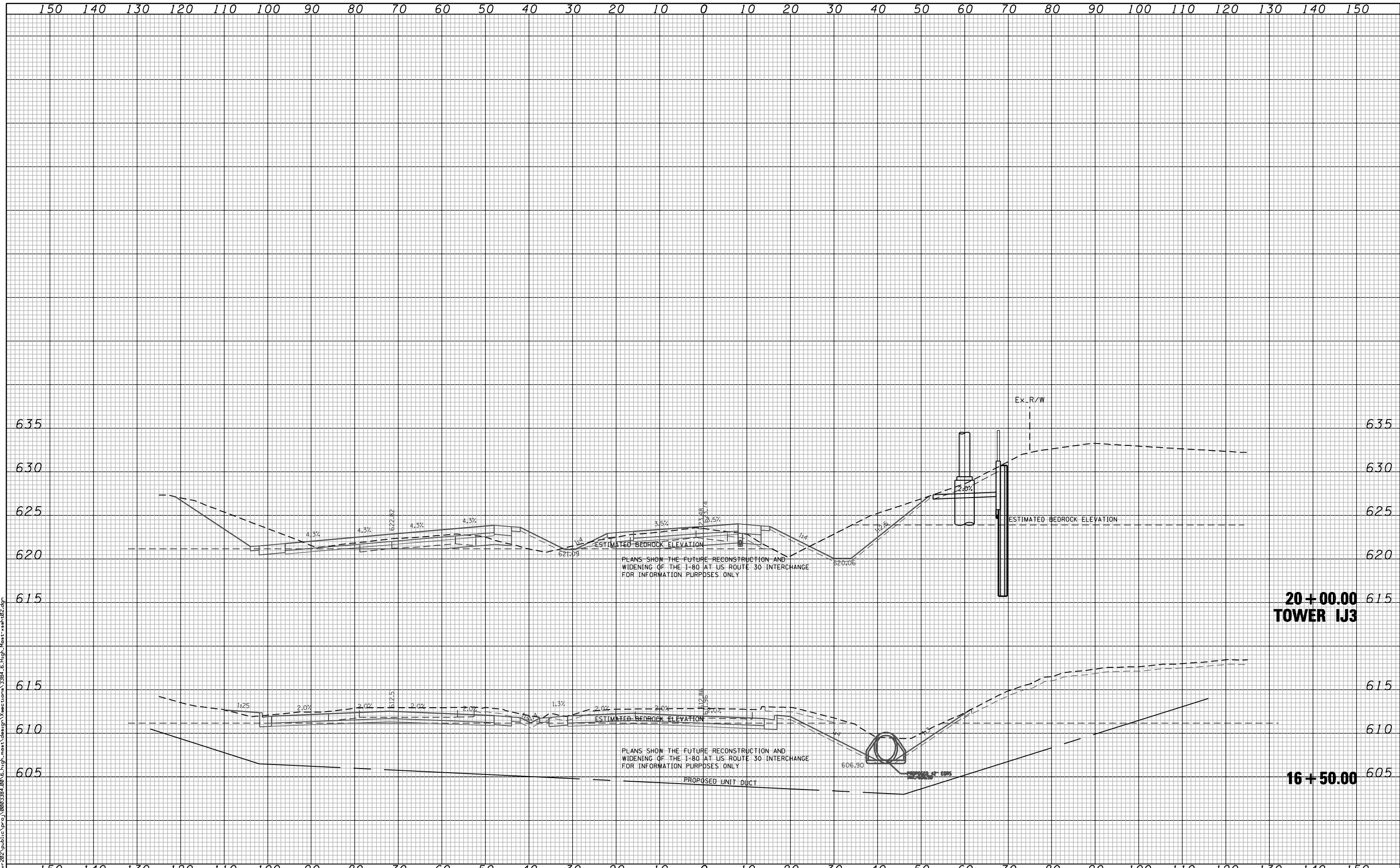
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PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 I-80 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 713+65.00 TO STA. 713+65.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 101
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



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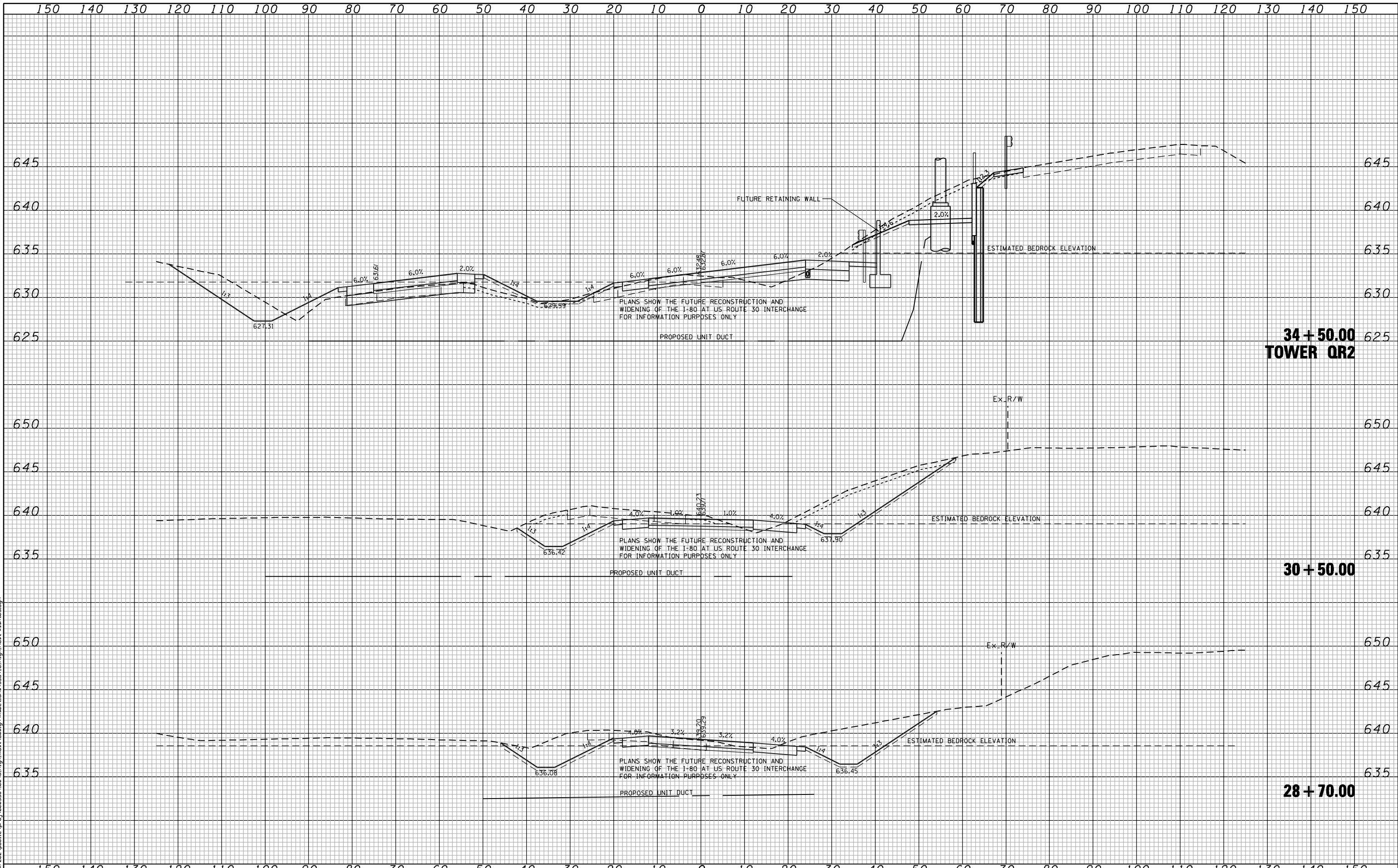
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**F.A.I. 80 / US 30 INTERCHANGE
 CROSS SECTIONS
 RAMP AD PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 16+50.00 TO STA. 20+00.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 102
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



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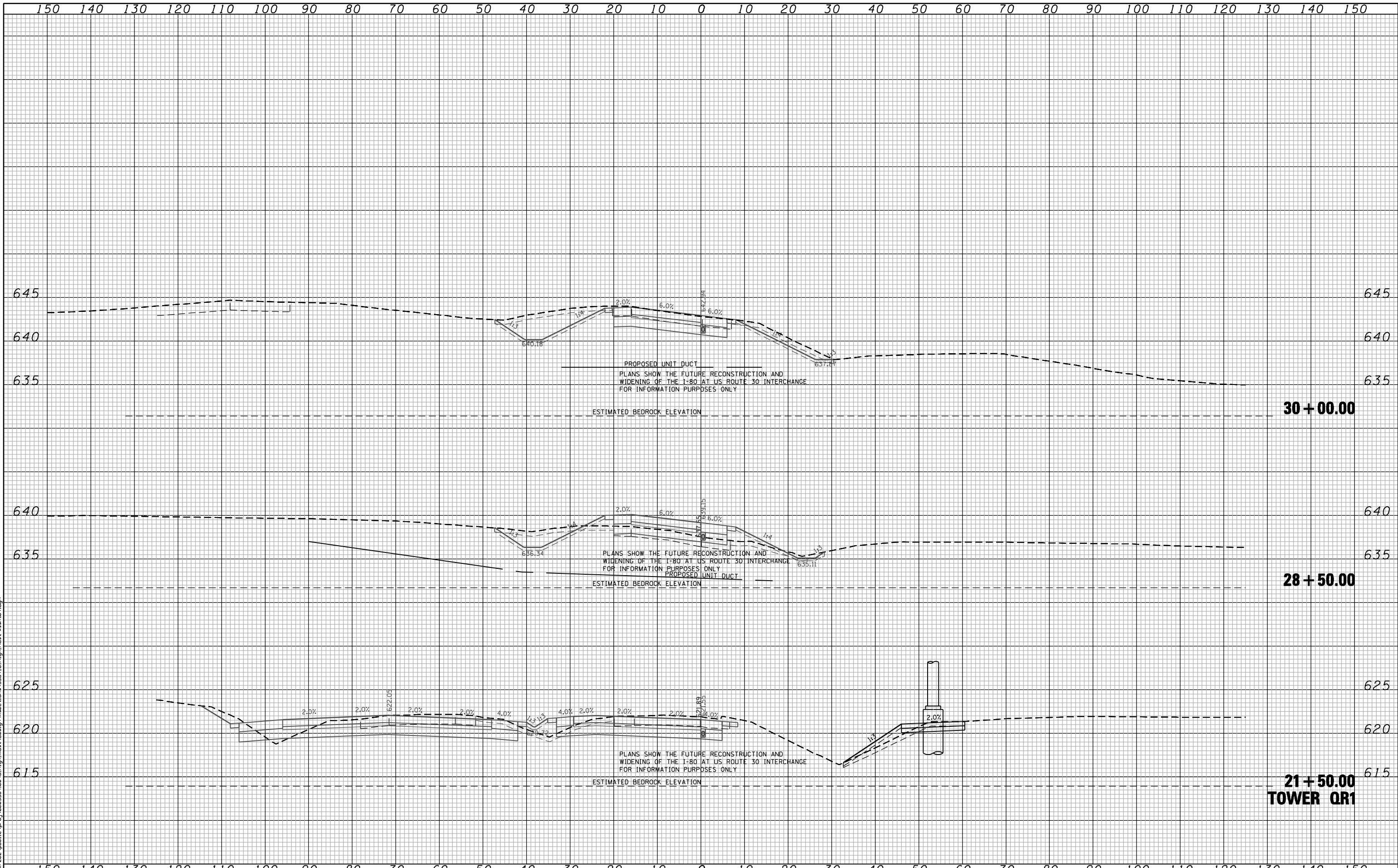
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PLOT DATE = 2/13/2012	DATE - 02-14-2012	REVISED -

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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 RAMP CB PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 28+70.00 TO STA. 34+50.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 103
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



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**STATE OF ILLINOIS
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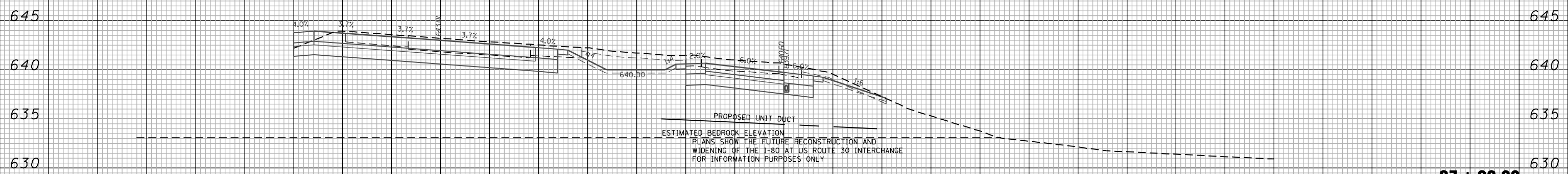
**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 RAMP BD PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 21+50.00 TO STA. 30+00.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 104
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	

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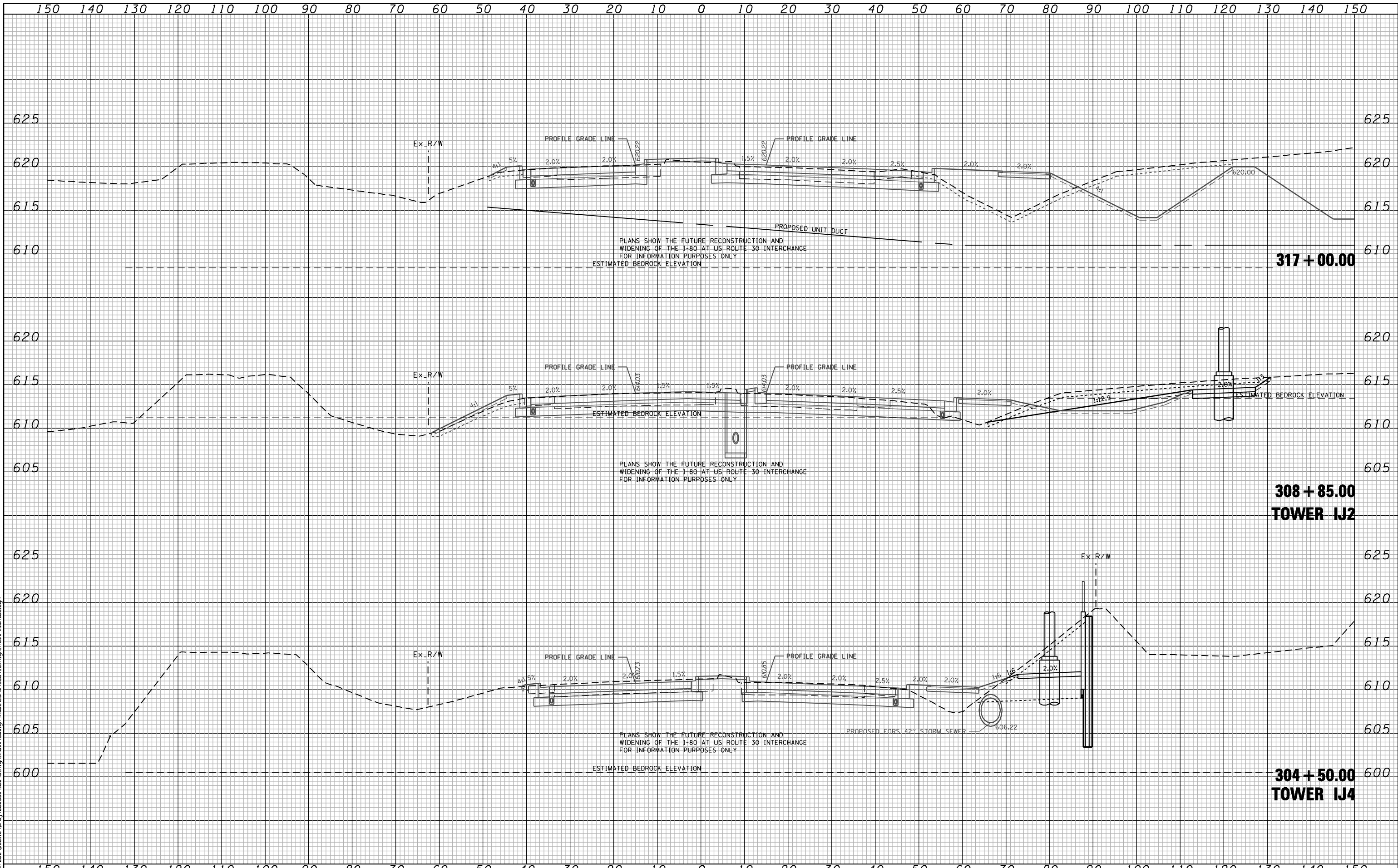
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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
CROSS SECTIONS
RAMP DA PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 27+00.00 TO STA. 27+00.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 105
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	



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PLOT DATE = 2/13/2012	CHECKED - JMV	REVISED -
	DATE - 02-14-2012	REVISED -

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**F.A.I. ROUTE 80 AT U.S. ROUTE 30 LIGHTING
 CROSS SECTIONS
 US 30 PROPOSED HIGH MAST LIGHTING LOCATIONS**

SCALE: SHEET NO. OF SHEETS STA. 304+50.00 TO STA. 317+00.00

F.A.I. RTE. 80	SECTION 2011-046-L	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 106
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P56	