

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

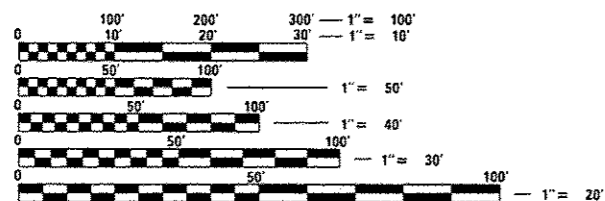
FAU ROUTE 3887 (IL 31 /STATE STREET)
SECTION (E-2)T
AT UP RAILROAD & AT LOCUST STREET
STORM SEWER (NEW) AND DRAINAGE IMPROVEMENTS
KANE COUNTY
C-91-419-13

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA:

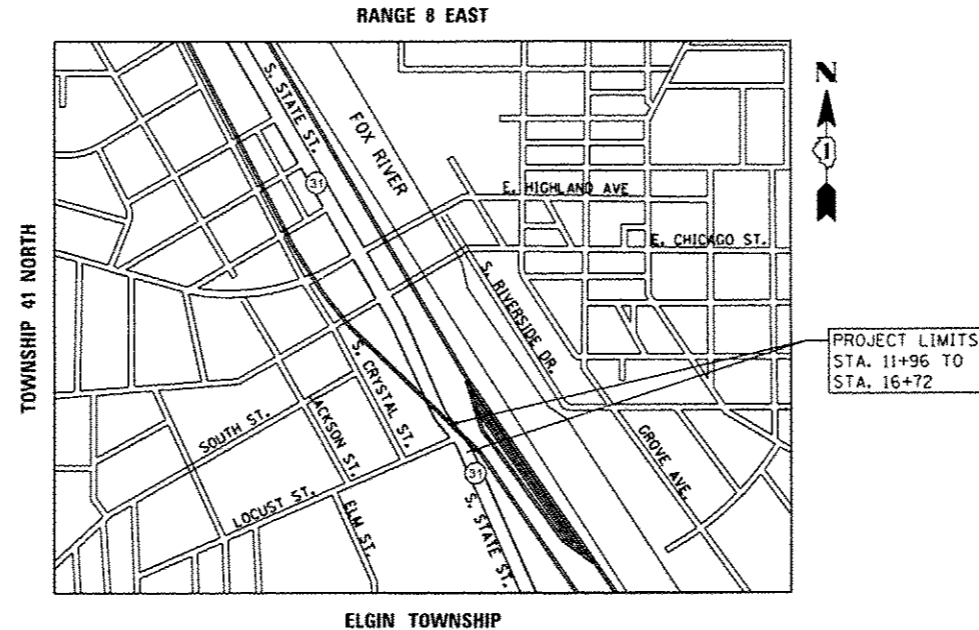
IL ROUTE 31
EXISTING ADT (2012) = 10,650
SPEED LIMIT = 30 MPH

THIS PROJECT IS LOCATED IN THE CITY OF ELGIN.



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

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



PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0112
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247
CONTRACT NO. 60X04

GRAEF 8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

PROFESSIONAL ENGINEER'S SIGN & SEAL
Peter M. Johnston
EXPIRES: 11-30-15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 17, 2014

John P. Kistner
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Nov 14 2014
John D. Baranelli, PE, p.e.
ENGINEER OF DESIGN AND ENVIRONMENT

Nov 14 2014
Orner Osman, PE, p.e.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3-7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS
9	ALIGNMENT AND BENCHMARKS
10	PROPOSED ROADWAY PLAN
11	SUGGESTED MAINTENANCE OF TRAFFIC PLAN
12-13	DRAINAGE PLAN AND PROFILE
14	LANDSCAPING & PAVEMENT MARKING PLAN
15	REMOVAL PLAN
16	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD 08)
17	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD 22)
18	BUTT JOINTS AND HMA TAPER (BD 32)
19	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD 34)
20	BENCHING DETAIL FOR EMBANKMENT WIDENING (BD51)
21	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC 10)
22	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC 11)
23	TYPICAL PAVEMENT MARKINGS (TC 13)
24	ARTERIAL ROAD INFORMATION SIGN (TC 22)
25-33	CROSS SECTIONS

STD. NO.	TITLE
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
602001-02	CATCH BASIN, TYPE A
604091-03	FRAME AND GRATE, TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND CUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 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.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE LIMIT OF RESURFACING ON ALL SIDE ROADS SHALL BE THE BACK OF RADIUS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI TRAFFIC FIELD ENGINEER AT 847-741-9857 (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS NOT SHOWN.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL DRAINAGE STRUCTURES REPLACEMENT AND ADJUSTMENTS ARE AT THE DIRECTION OF THE ENGINEER.

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GRAF
 850 N. Michigan Road, Suite 200
 Chicago, Illinois 60612
 (773) 399-0112

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 31 - UPRR TO LOCUST STREET
 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

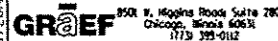
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	2
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				

URBAN

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	100% STATE 0044 DRAINAGE
20200100	EARTH EXCAVATION	CU YD	60	60
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	46	46
20400800	FURNISHED EXCAVATION	CU YD	69	69
20800150	TRENCH BACKFILL	CU YD	75	75
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	247	247
25100900	TURF REINFORCEMENT MAT	SQ YD	163	163
25200110	SODDING, SALT TOLERANT	SQ YD	84	84
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6	6
28000400	PERIMETER EROSION BARRIER	FOOT	467	467
28000510	INLET FILTERS	EACH	3	3
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	129	129
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,293	1,293
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3
40600635	LEVELING BINDER (MACHINE METHOD), NTO	TON	81	81

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

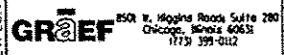
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3887	1E-21T	KANE	33	3
CONTRACT NO. 60X04			ILLINOIS FED. AID PROJECT	

URBAN

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	100% STATE 0044 DRAINAGE
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	88	88
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	162	162
42001300	PROTECTIVE COAT	SQ YD	150	150
44000100	PAVEMENT REMOVAL	SQ YD	175	175
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1,835	1,835
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	458	458
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	4	4
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	13	13
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2,112	2,112
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	162	162
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3
60500050	REMOVING CATCH BASINS	EACH	2	2
60500060	REMOVING INLETS	EACH	1	1
60603800	COMBINATION CONCRETE CURB AND CUTTER, TYPE B-6.12	FOOT	30	30

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
 SUMMARY OF QUANTITIES

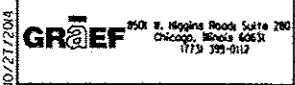
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	4
CONTRACT NO. 60X04			ILLINOIS FED. AID PROJECT	

URBAN

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	100% STATE 0044 DRAINAGE
60605000	COMBINATION CONCRETE CURB AND CUTTER, TYPE B-6.24	FOOT	429	429
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	175	175
* 63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	100	100
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	369	369
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	55	55
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1
67100100	MOBILIZATION	L SUM	1	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	302	302
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	84	84
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,371	1,371
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	11	11
70400100	TEMPORARY CONCRETE BARRIER	FOOT	476	476
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	85	85

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
SUMMARY OF QUANTITIES

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

PLAN. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	5
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				

*Specialty Items Rev.

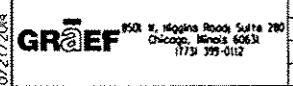
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PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	100% STATE 0044 DRAINAGE
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	676	676
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	16	16
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	22	22
✕ 78200420	GUARDRAIL MARKERS, TYPE B	EACH	5	5
✕ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
78300100	PAVEMENT MARKING REMOVAL	SQ FT	148	148
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	15	15
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	79	79
X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	52	52
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	85	85
X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	39	39
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	12	12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	239	239

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* Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET	
SUMMARY OF QUANTITIES	
SCALE:	SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3087	(E-2)T	KANE	33	6
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				


URBAN

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	100% STATE 0044 DRAINAGE
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	257	257
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	26	26
Z0064800	SELECTIVE CLEARING	UNIT	1	1

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* DENOTES SPECIALTY ITEM

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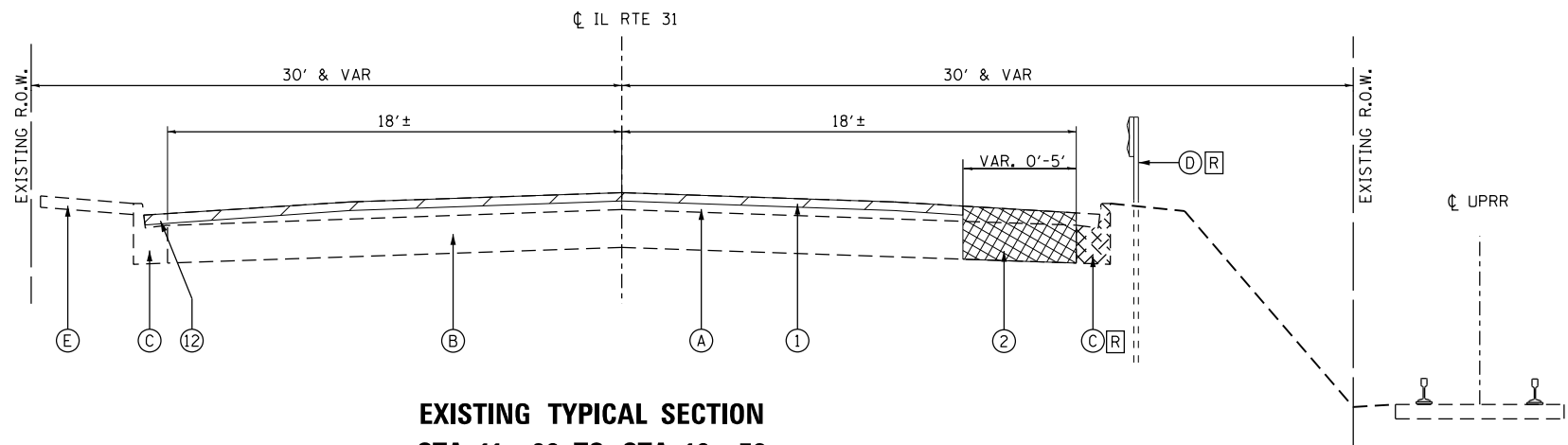

 950 N. Michigan Road, Suite 200
 Chicago, Illinois 60611
 (773) 399-0112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET		
SUMMARY OF QUANTITIES		
SCALE:	SHEET 5 OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	7
				CONTRACT NO. 60X04
ILLINOIS FED. AID PROJECT				



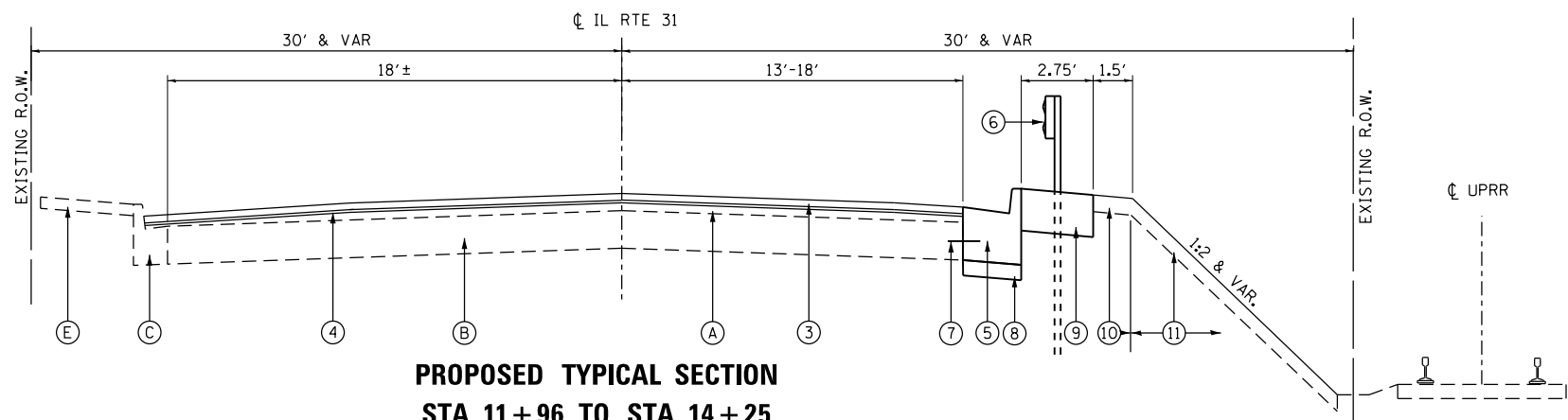
**EXISTING TYPICAL SECTION
STA. 11+96 TO STA. 16+72**

EXISTING CONDITIONS LEGEND

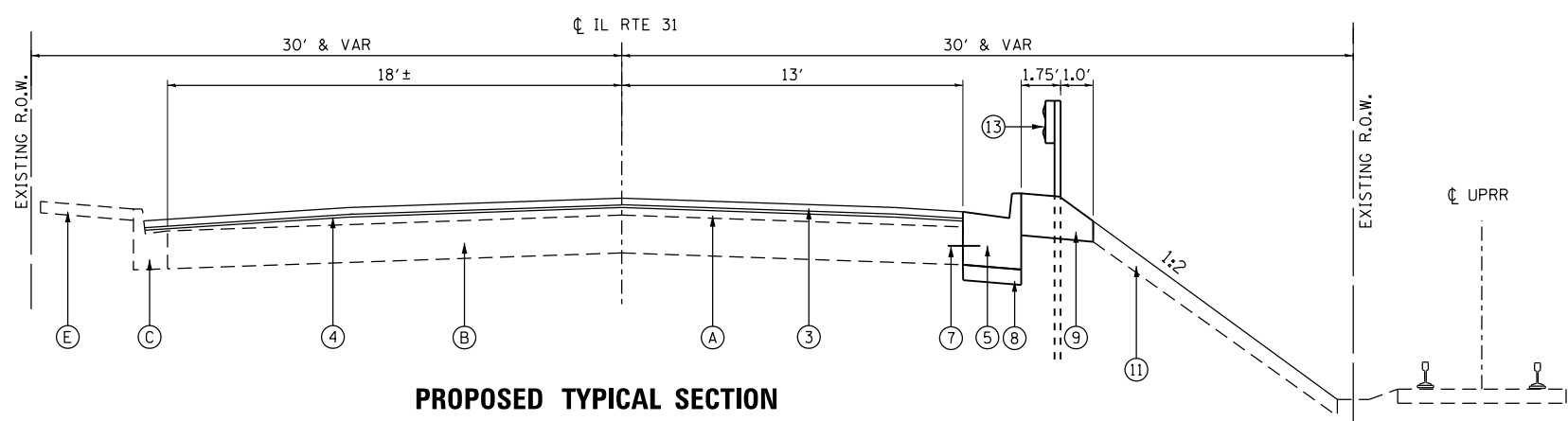
- (A) HMA SURFACE COURSE, 4 1/2" & VAR
- (B) PCC BASE COURSE, 10"
- (C) PCC CURB & GUTTER, B-6.12
- (D) GUARDRAIL
- (E) PCC SIDEWALK
- (R) ITEM TO BE REMOVED

PROPOSED IMPROVEMENTS

- (1) HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
- (2) PAVEMENT REMOVAL, 14 1/2"
- (3) HOT MIX ASPHALT SURFACE COURSE, MIX D, N70 1 1/2"
- (4) LEVELING BINDER (MACHINE METHOD), N70 3/4"
- (5) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (7) EPOXY COATED, DEFORMED NO. 19 TIE BARS, 24" LONG @ 24" C-C. (COST INCLUDED IN CURB & GUTTER)
- (8) SUB BASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SHOULDER, TYPE B 10"
- (10) SODDING, TOPSOIL, 4" & FERTILIZER NUTRIENTS
- (11) SEEDING, CLASS 4, TOPSOIL, 4" & TURF REINFORCEMENT MAT
- (12) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- (13) STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS



**PROPOSED TYPICAL SECTION
STA. 11+96 TO STA. 14+25
STA. 15+25 TO STA. 16+72**



**PROPOSED TYPICAL SECTION
STA. 14+50 TO STA. 15+00**

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

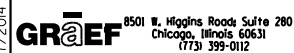
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	OCP
ROADWAY		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) 1 1/2"	4% @ 70 GYR	QC/OA
LEVELING BINDER (MACHINE METHOD), (IL 9.5mm), N70, 3/4"	4% @ 70 GYR	QC/OA
CLASS D PATCHES, 12"		
CLASS D PATCHES (HMA BINDER IL 19mm) 12"	4% @ 70 GYR	QC/OA

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A IS 112 LBS/SQ YD/IN. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

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 USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 31 - UPRR TO LOCUST STREET
TYPICAL SECTIONS**

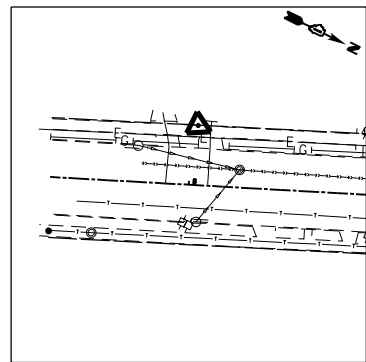
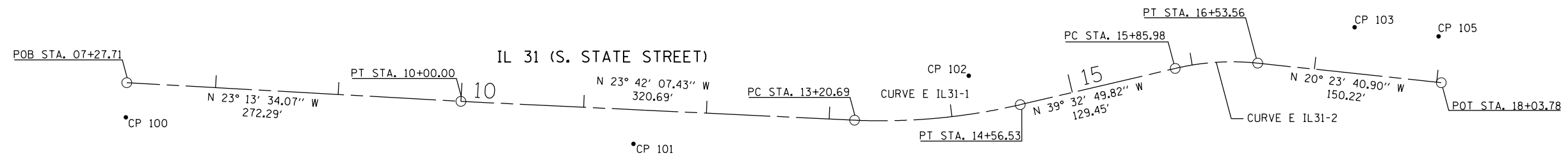
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	8
CONTRACT NO. 60X04			ILLINOIS FED. AID PROJECT	

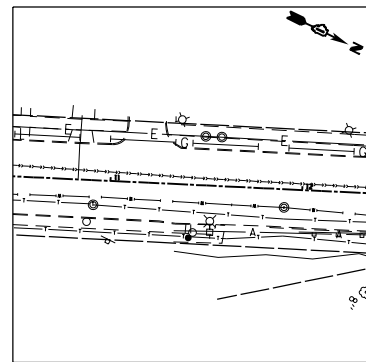
EXIST. CURVE E_IL31-1
 PI STA. = 13+89.03
 $\Delta = 15^\circ 33' 59''$ (LT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 68.34'$
 $L = 135.84'$
 $E = 4.65'$
 P.C. STA. = 13+20.69
 P.T. STA. = 14+56.53

EXIST. CURVE E_IL31-2
 PI STA. = 16+20.10
 $\Delta = 19^\circ 21' 39''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 34.12'$
 $L = 67.58'$
 $E = 2.89'$
 P.C. STA. = 15+85.98
 P.T. STA. = 16+53.56

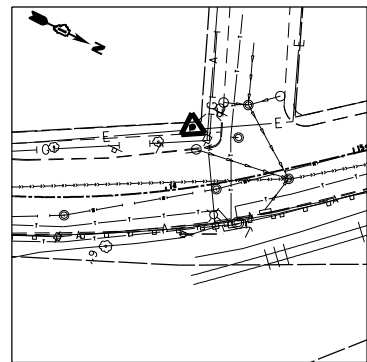
ALIGNMENT COORDINATES - IL 31			
	STATION	NORTHING	EASTING
POB	07+27.71	1,954,332.81	997,531.05
POT	10+00.00	1,954,583.04	997,423.67
PC	13+20.69	1,954,876.67	997,294.76
PT	14+56.53	1,954,991.82	997,223.46
PC	15+85.98	1,955,091.63	997,141.04
PT	16+53.56	1,955,149.84	997,107.34
POT	18+03.78	1,955,290.64	997,054.99



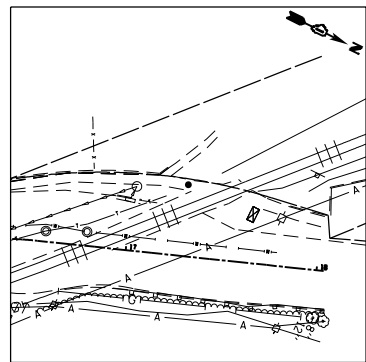
CONTROL POINT #100
 STA. 8+03, 31.05' LT



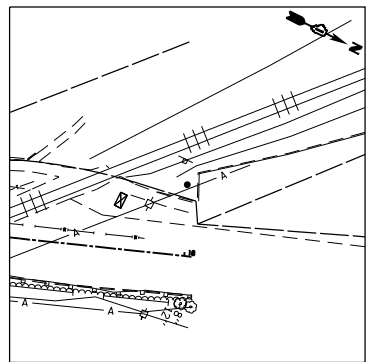
CONTROL POINT #101
 STA. 11+42, 27.70' RT



CONTROL POINT #102
 STA. 14+19, 31.04' LT



CONTROL POINT #103
 STA. 17+29, 37.30' LT



CONTROL POINT #105
 STA. 17+98, 37.08' LT

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1,954,389.94	997,472.74	770.62'	CROSS ON SIDEWALK
101	1,954,724.10	997,391.99		SET 5/8" REBAR
102	1,954,943.84	997,221.08	760.93'	CROSS ON SIDEWALK
103	1,955,207.46	997,046.12	748.90'	SET CC NW CORNER RR SIGNAL BASE
105	1,955,271.98	997,022.37	747.16'	CROSS ON NW EDGE RR CANTL SIGNAL

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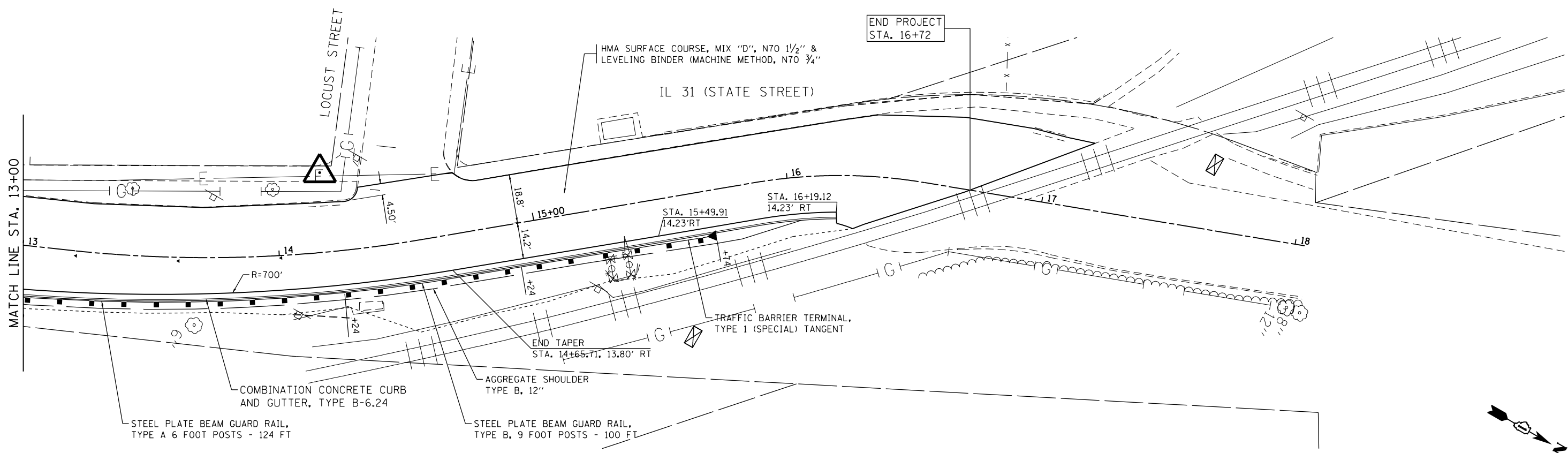
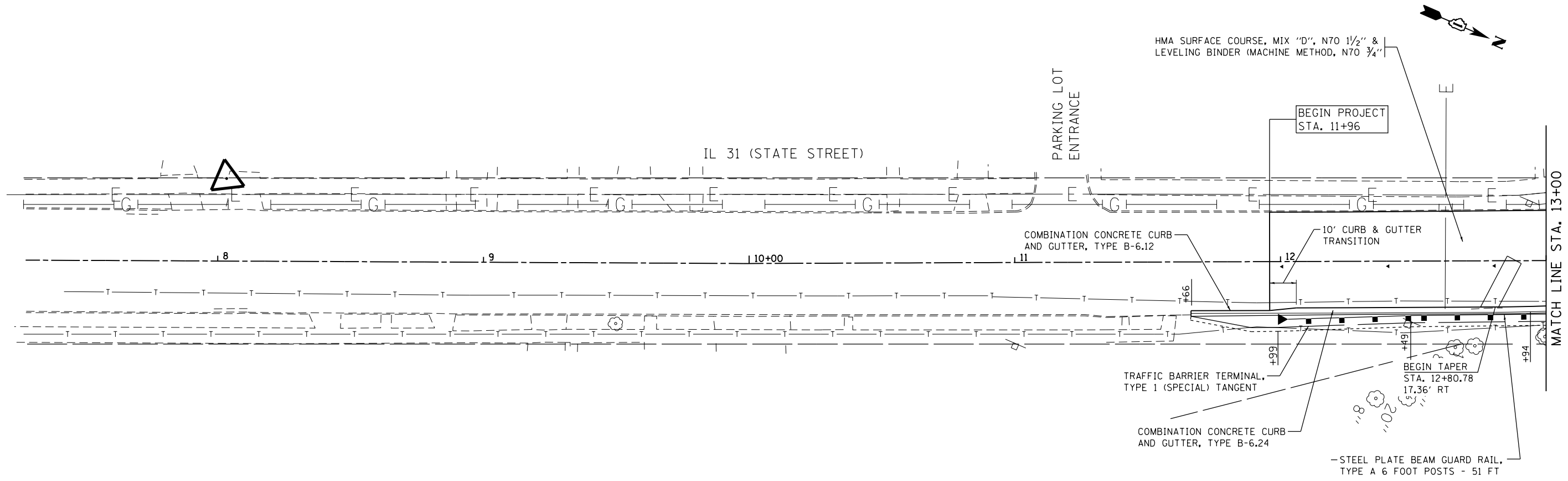
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
 ALIGNMENT AND TIE SHEET

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	9

CONTRACT NO. 60X04
 ILLINOIS FED. AID PROJECT



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 8501 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

USER NAME = 1485	DESIGNED -	REVISED -
DRAWN - ED	REVISOR -	REVISIONS -
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PLOT DATE = 10/27/2014		

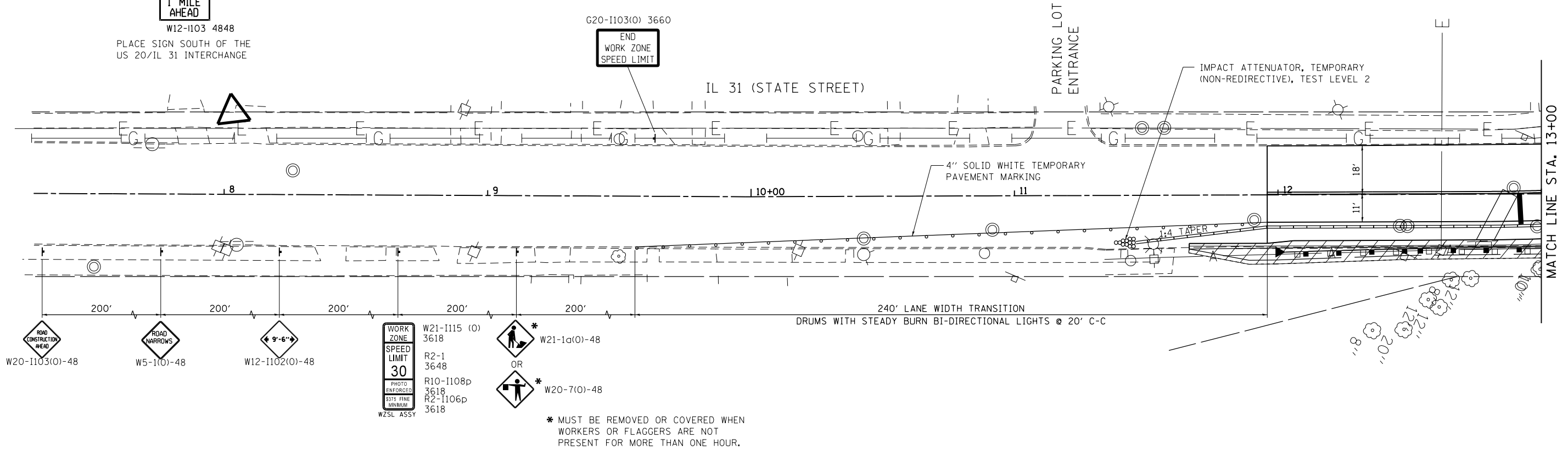
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
PROPOSED ROADWAY PLAN
 SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 10+00 TO STA. 17+96.37

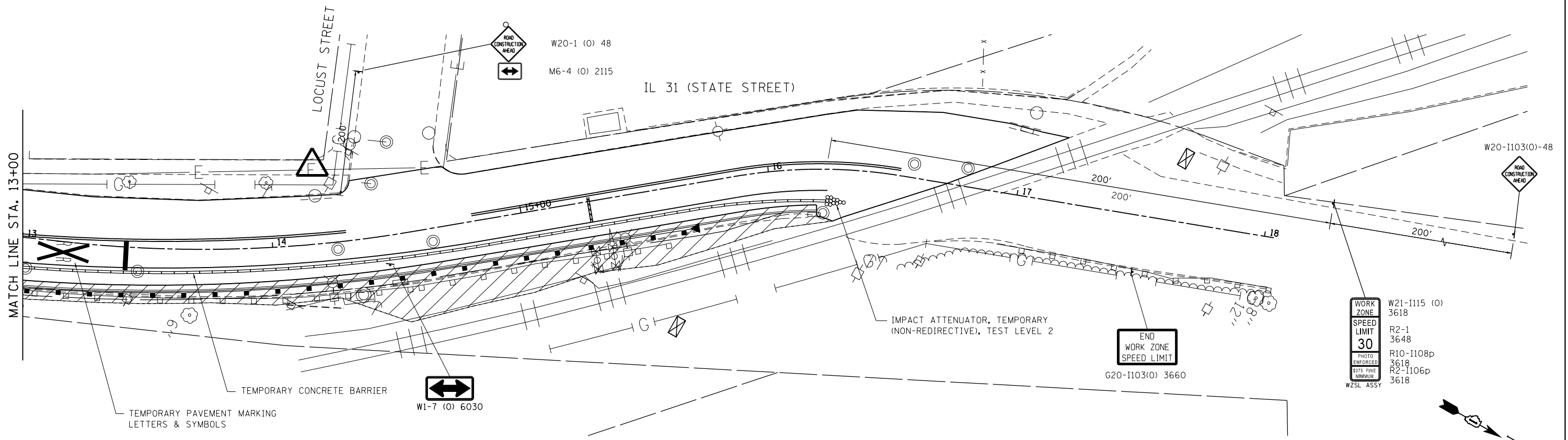
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	10
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				

MAX WIDTH
9'-6"
1 MILE AHEAD
W12-1103 4848
PLACE SIGN SOUTH OF THE
US 20/IL 31 INTERCHANGE

G20-1103(O) 3660
END WORK ZONE SPEED LIMIT



* MUST BE REMOVED OR COVERED WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.



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(773) 399-0112

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PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

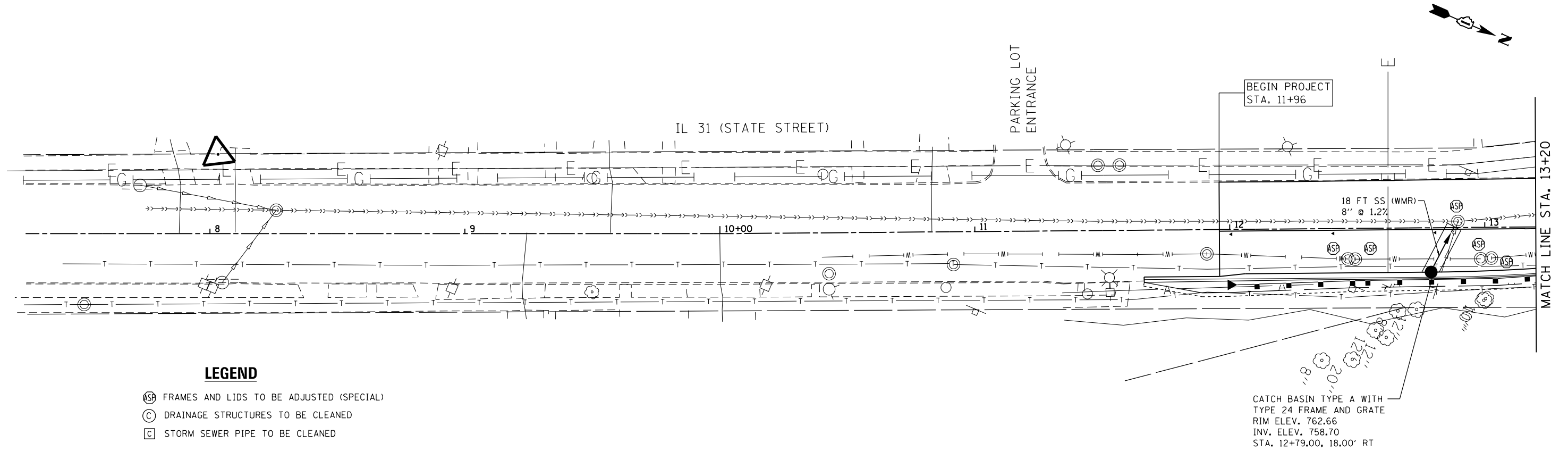
**IL 31 - UPRR TO LOCUST STREET
SUGGESTED MAINTENANCE OF TRAFFIC PLAN**
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 10+00 TO STA. 17+96.37

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	11
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				

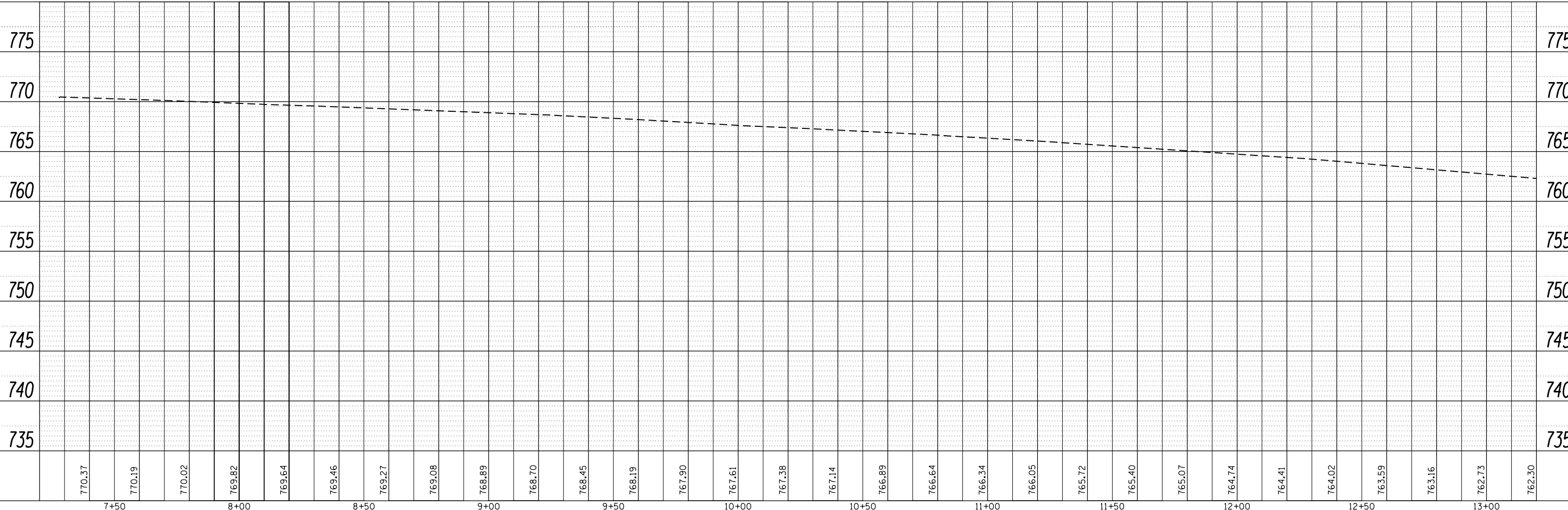
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SURVEYED	BY	DATE
PLOTTED		
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PROFILE		
SURVEYED	BY	DATE
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHECKED		
NO.		

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- LEGEND**
- ⊙ (with 'A') SP FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊙ (with 'C') DRAINAGE STRUCTURES TO BE CLEANED
 - ⊙ (with 'C') STORM SEWER PIPE TO BE CLEANED



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 Chicago, Illinois 60631
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USER NAME = 1485	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/27/2014	CHECKED -	REVISED -
	DATE - 01/10/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 31 - UPRR TO LOCUST STREET
 DRAINAGE PLAN**

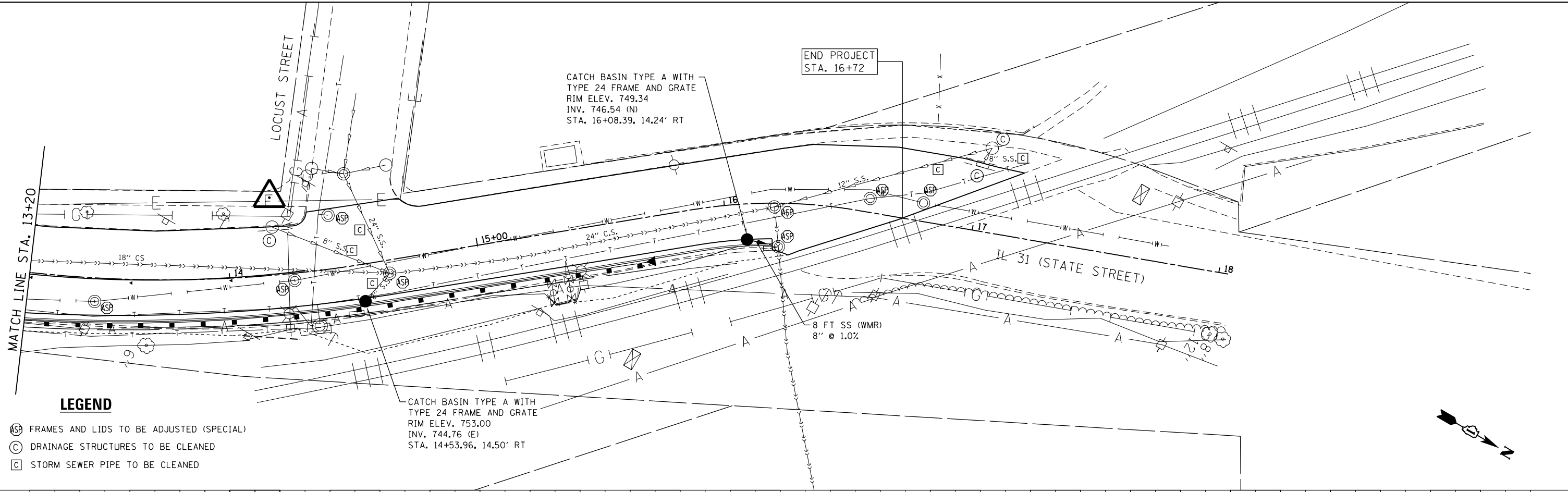
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	12
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				

PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
FILE NAME	

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
FILE NAME	

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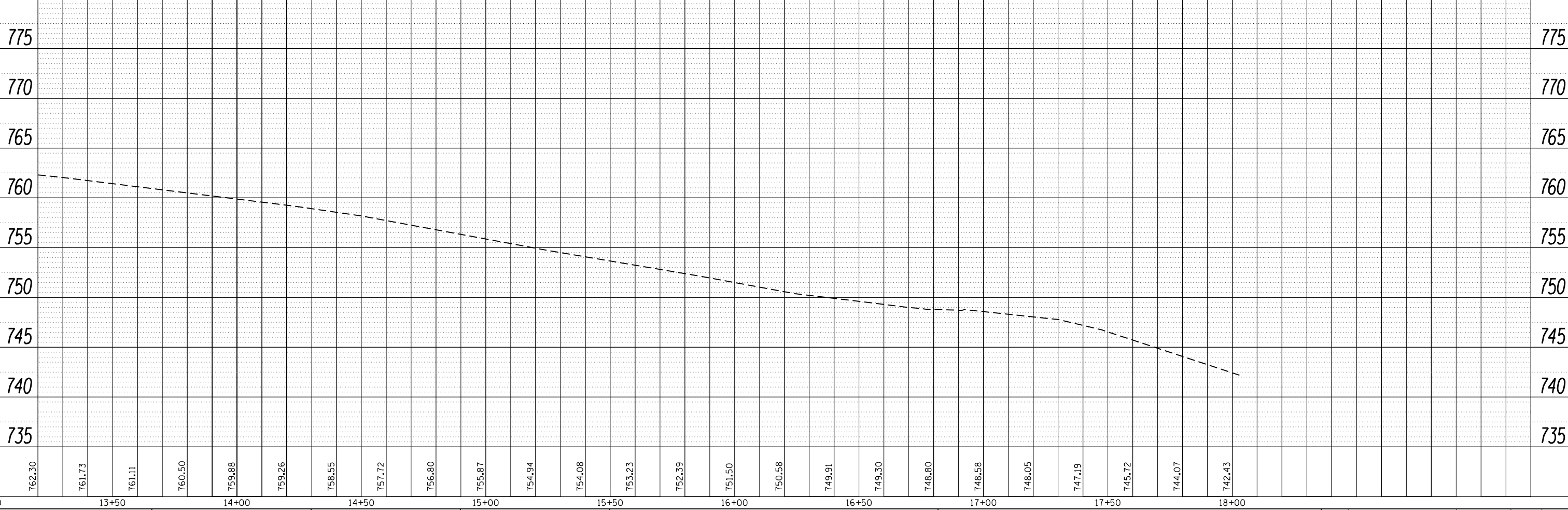
LEGEND

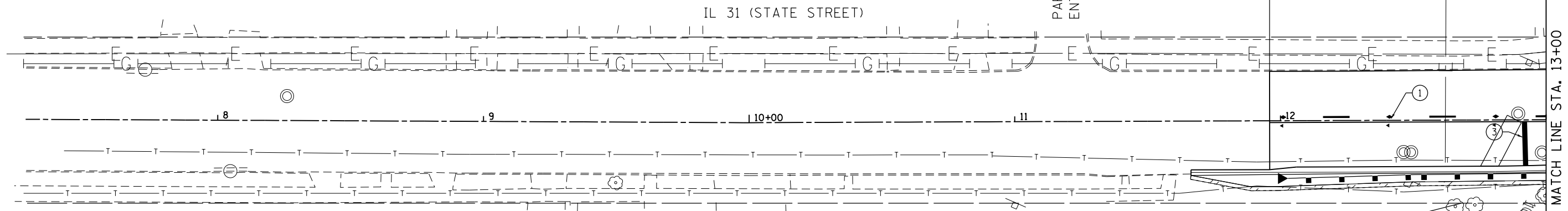
- Ⓢ FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- ⓐ DRAINAGE STRUCTURES TO BE CLEANED
- ⓑ STORM SEWER PIPE TO BE CLEANED

CATCH BASIN TYPE A WITH
TYPE 24 FRAME AND GRATE
RIM ELEV. 753.00
INV. 744.76 (E)
STA. 14+53.96, 14.50' RT

CATCH BASIN TYPE A WITH
TYPE 24 FRAME AND GRATE
RIM ELEV. 749.34
INV. 746.54 (N)
STA. 16+08.39, 14.24' RT

END PROJECT
STA. 16+72





PAVEMENT MARKING LEGEND

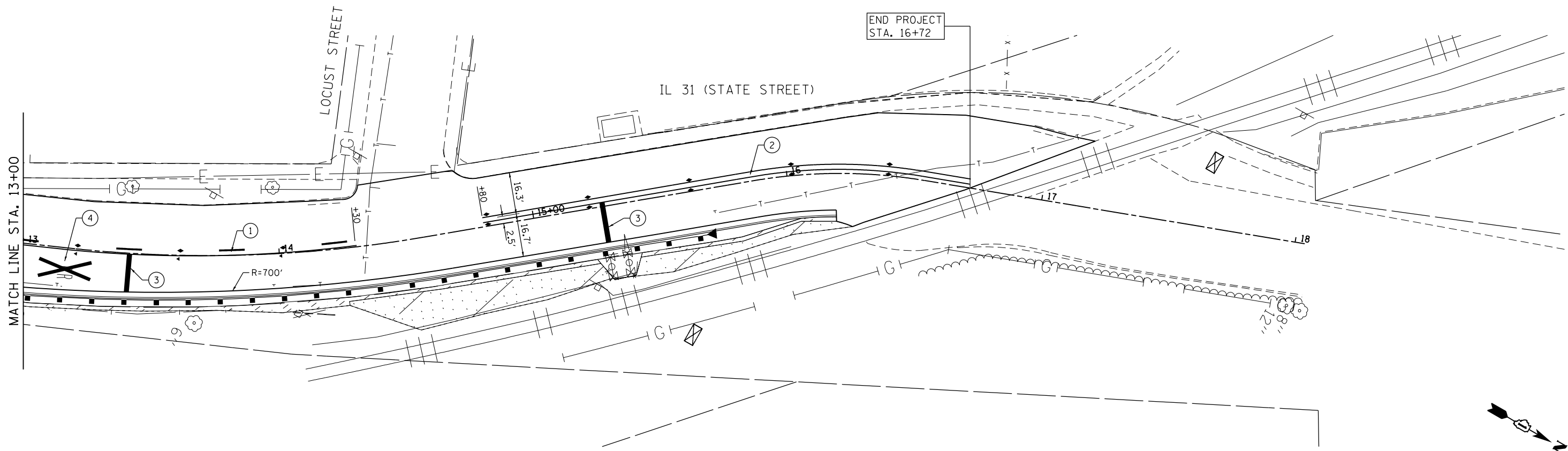
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW 10' DASH, 30' SKIP & TWO-WAY AMBER MARKERS @ 40' C-C AND LINE 4" YELLOW SOLID @ 11" C-C WITH ONE-WAY AMBER MARKERS @ 40' C-C
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW 2 @ 11" C-C WITH TWO EACH TWO-WAY AMBER MARKERS @ 40' C-C
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
 - ④ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS WHITE
- SEE DISTRIC 1 STANDARD TC13 FOR DETAILS NOT SHOWN

LANDSCAPING LEGEND

- SODDING, SALT TOLERANT, 4" TOPSOIL & FERTILIZER NUTRIENTS
- SEEDING CLASS 4, 4" TOPSOIL & TURF REINFORCEMENT MAT

NOTES

- 1. SEEDING CLASS 4 WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST FOR TURF REINFORCEMENT MAT.
- 2. FERTILIZER NUTRIENTS WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN COST FOR SODDING, SALT TOLERANT



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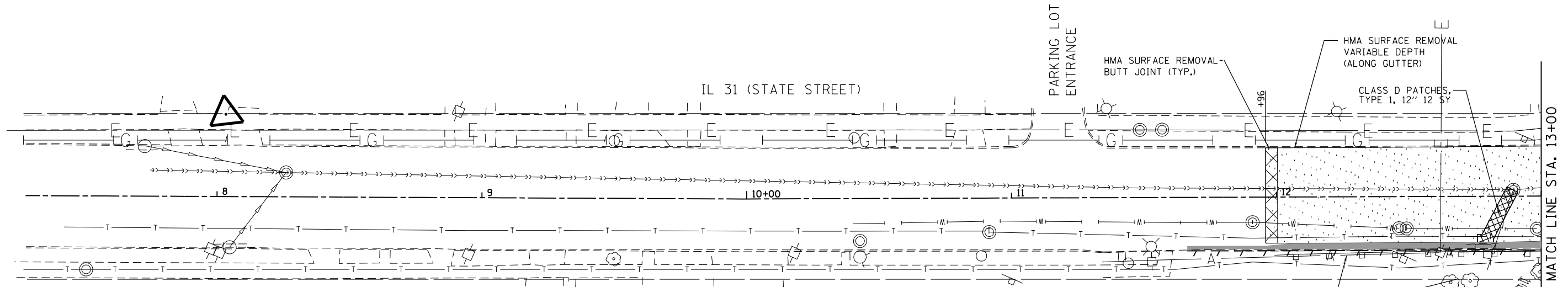
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DRAWN - ED	REVISOR -	REVISOR -
CHECKED - RS	DATE - 10/27/2014	REVISOR -
DATE - 10/27/2014		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 31 - UPRR TO LOCUST STREET
 LANDSCAPING & PAVEMENT MARKING PLAN**

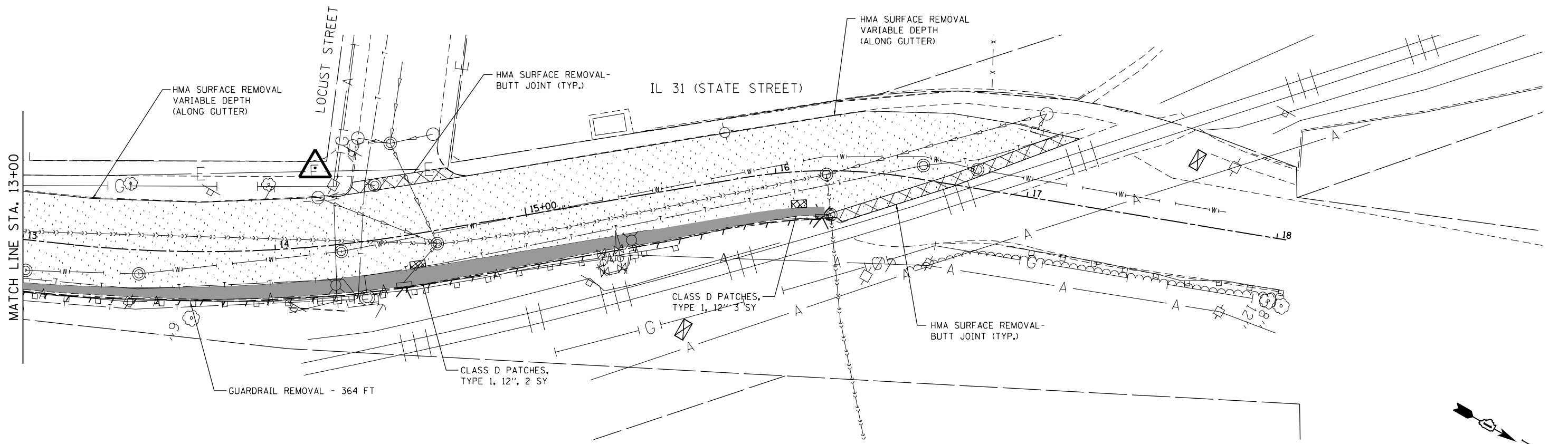
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	14
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				



LEGEND

- REMOVING CATCH BASINS
 - REMOVING INLETS
 - CONCRETE CURB AND GUTTER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
 - PAVEMENT REMOVAL
 - CLASS D PATCHES, 12"



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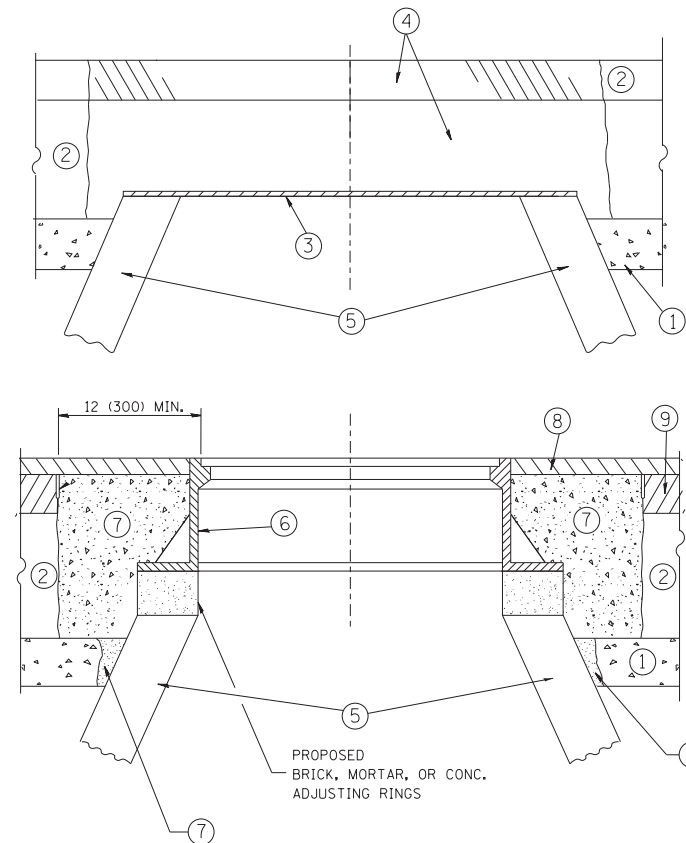
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
REMOVAL PLAN

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 10+00 TO STA. 17+96.37

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	15
CONTRACT NO. 60X04				
ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

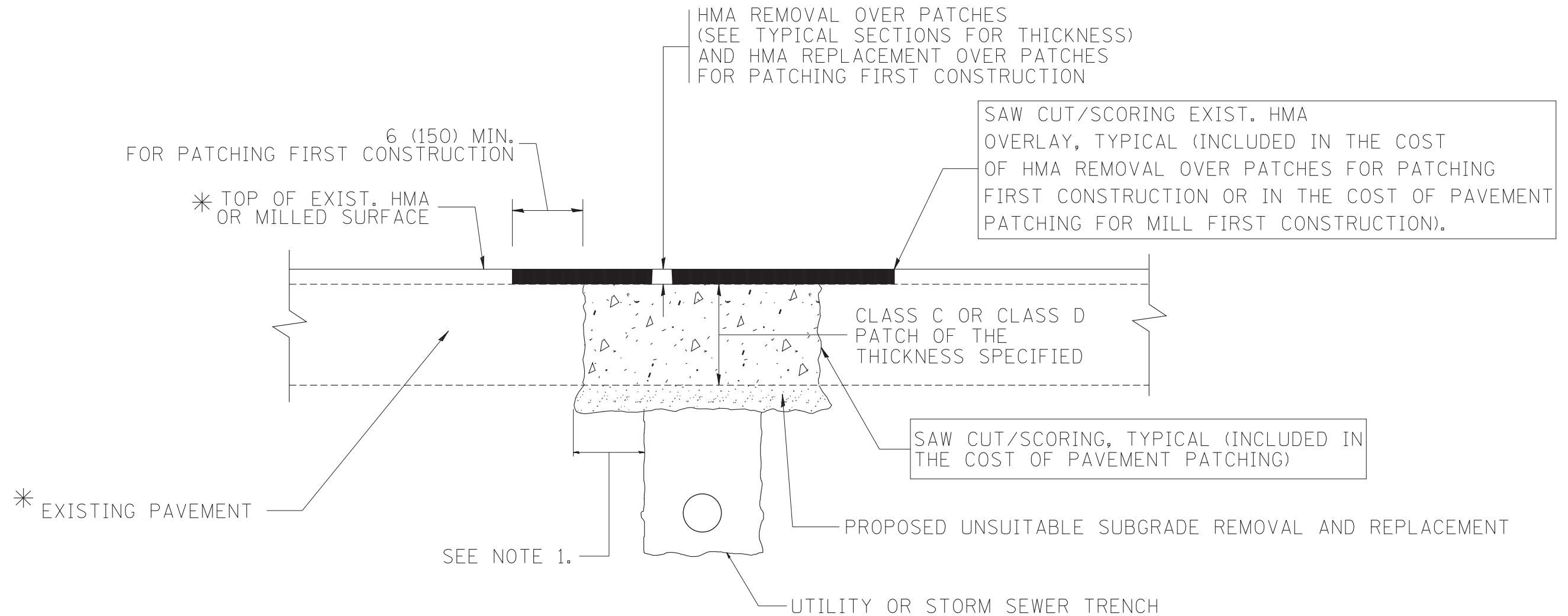
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	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3387	(E-2)T	KANE	33	16
BD600-03 (BD-8)		CONTRACT NO.	60X04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

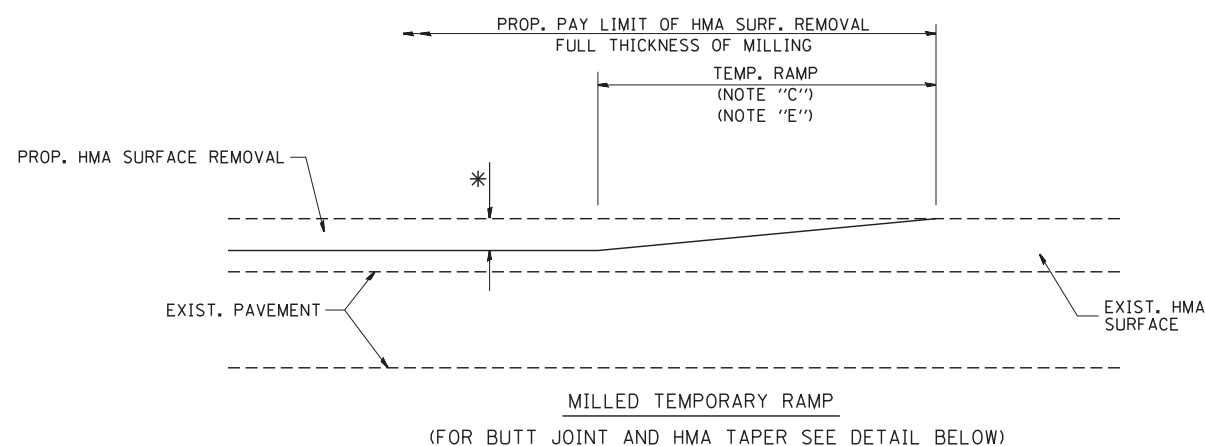
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

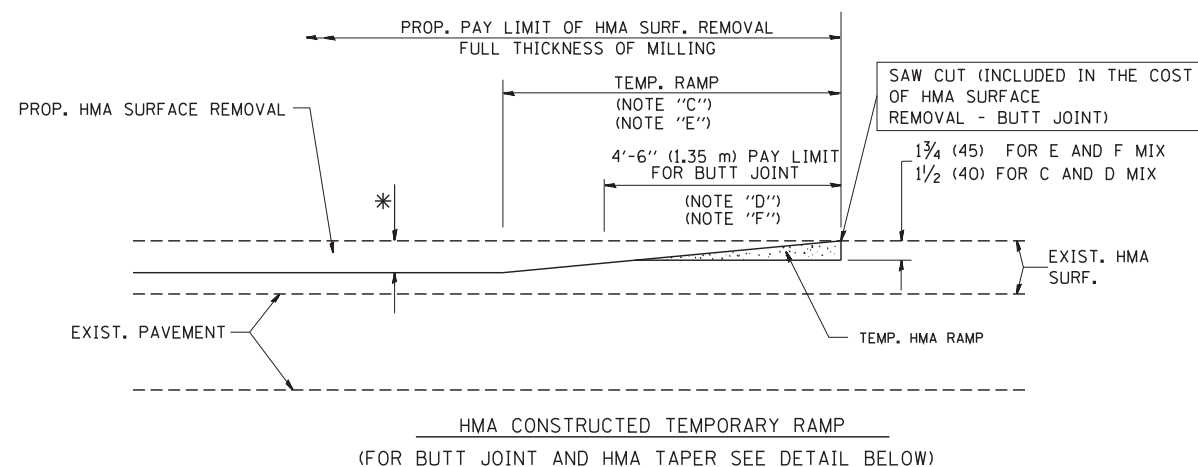
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 3387	SECTION (E-2)T	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 17
BD400-04 (BD-22)		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

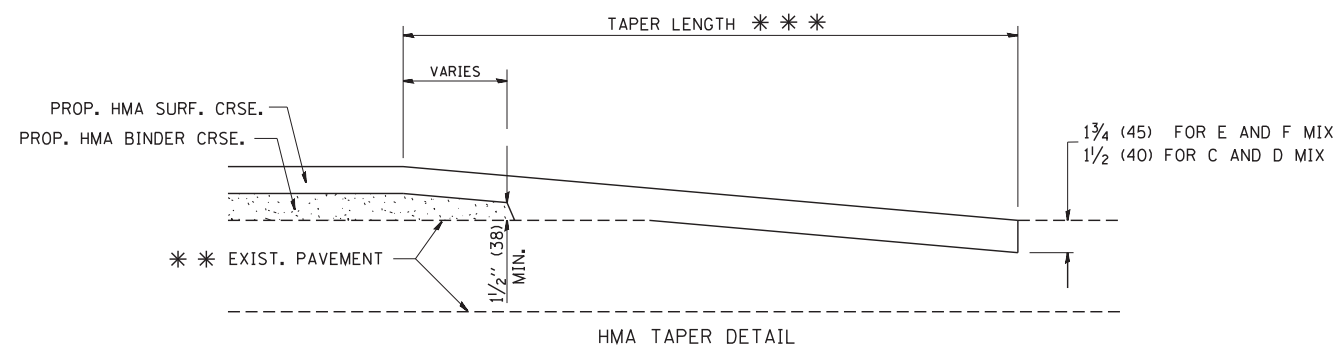
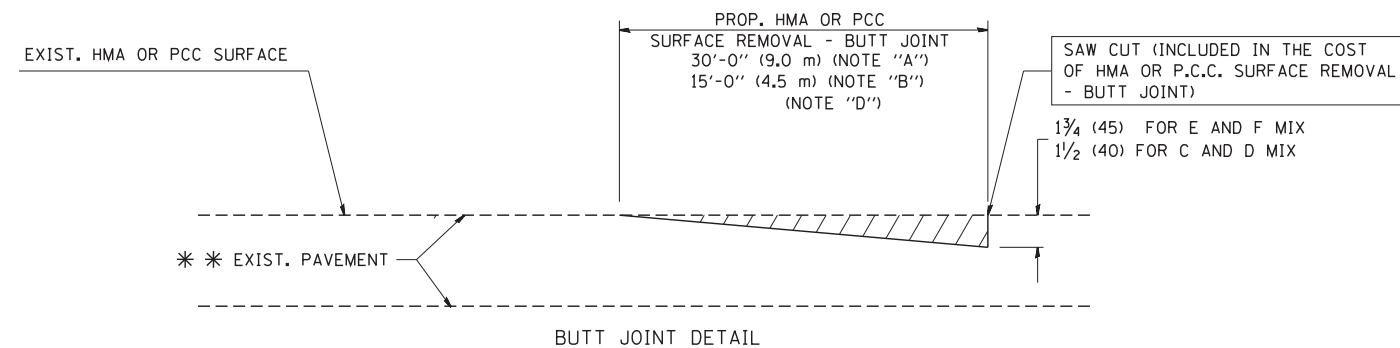


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

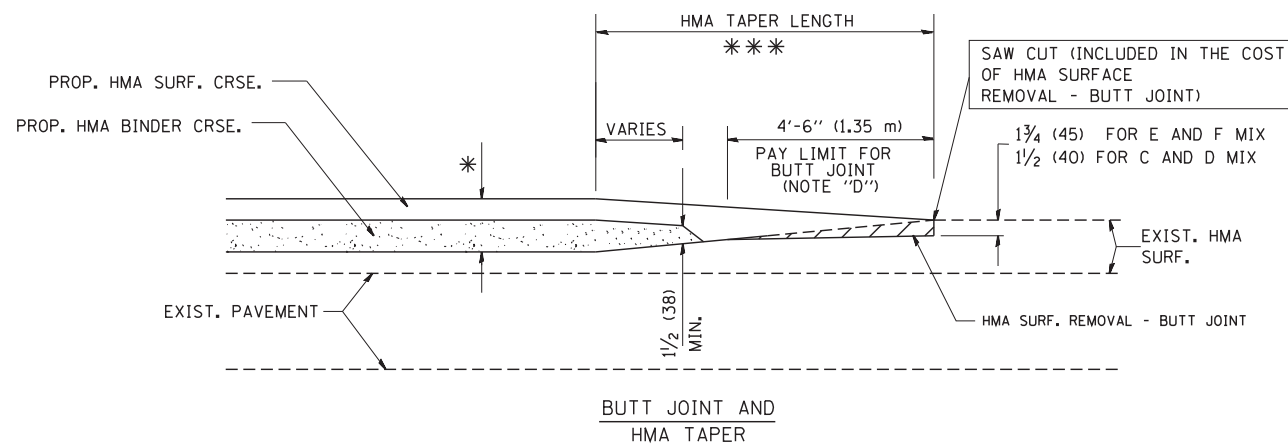
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

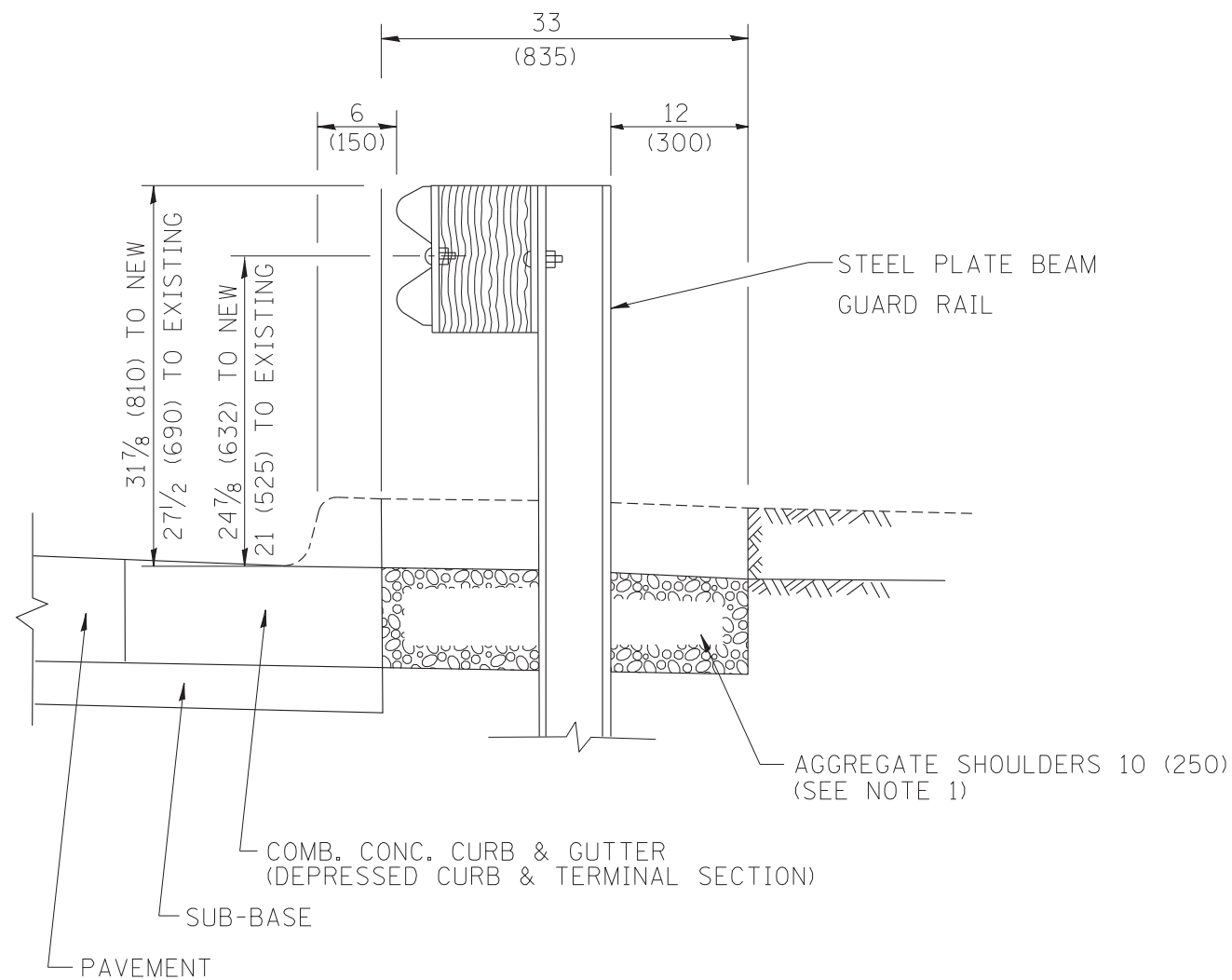
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

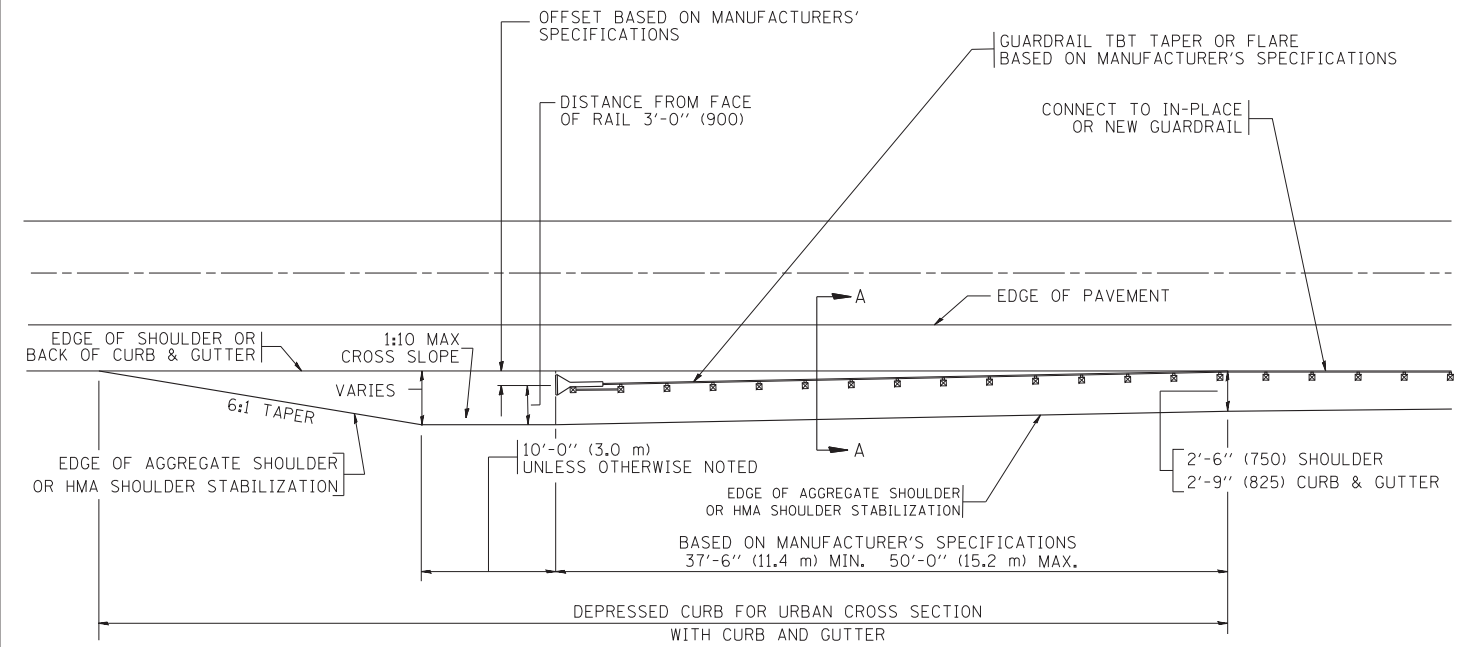
F.A.U. RTE. 3387	SECTION (E-2)T	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 18
BD400-05 BD32		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

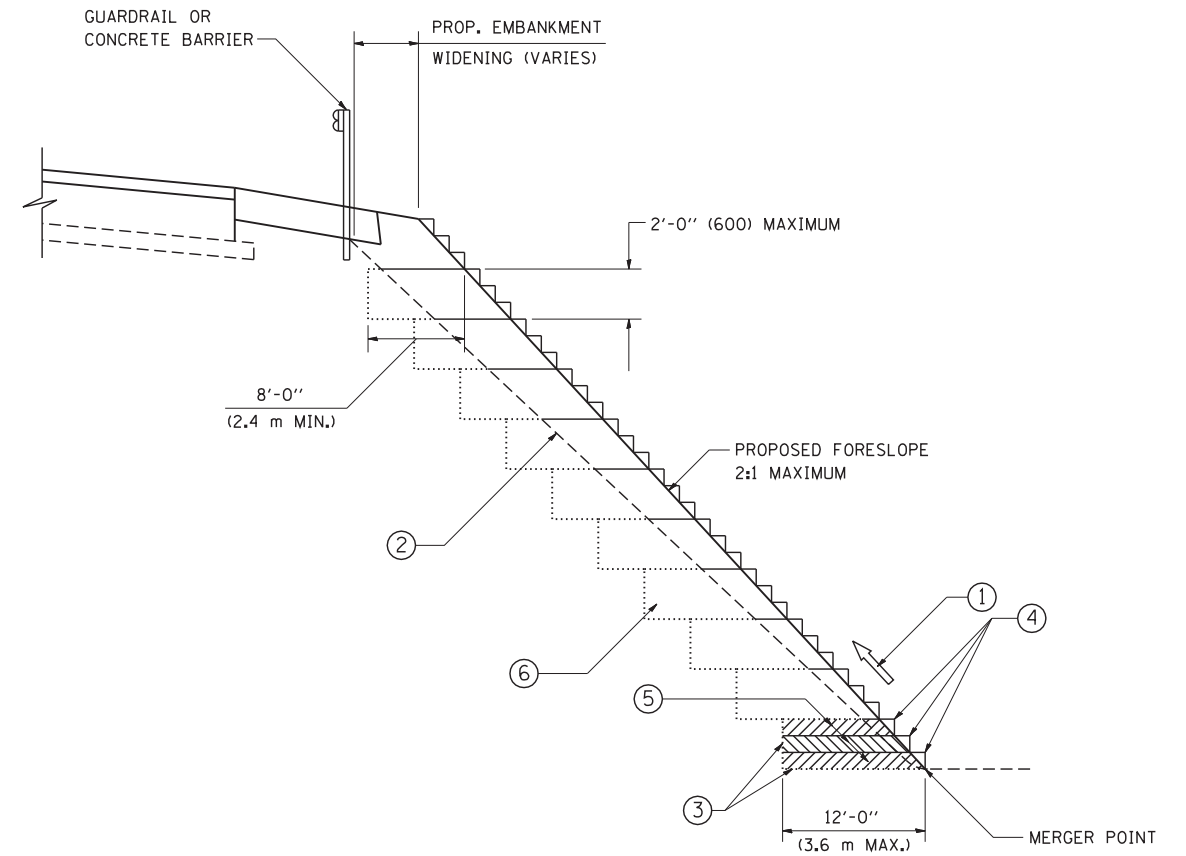
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
 SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3387	(E-2)T	KANE	33	19
BD600-10 (BD 34)		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

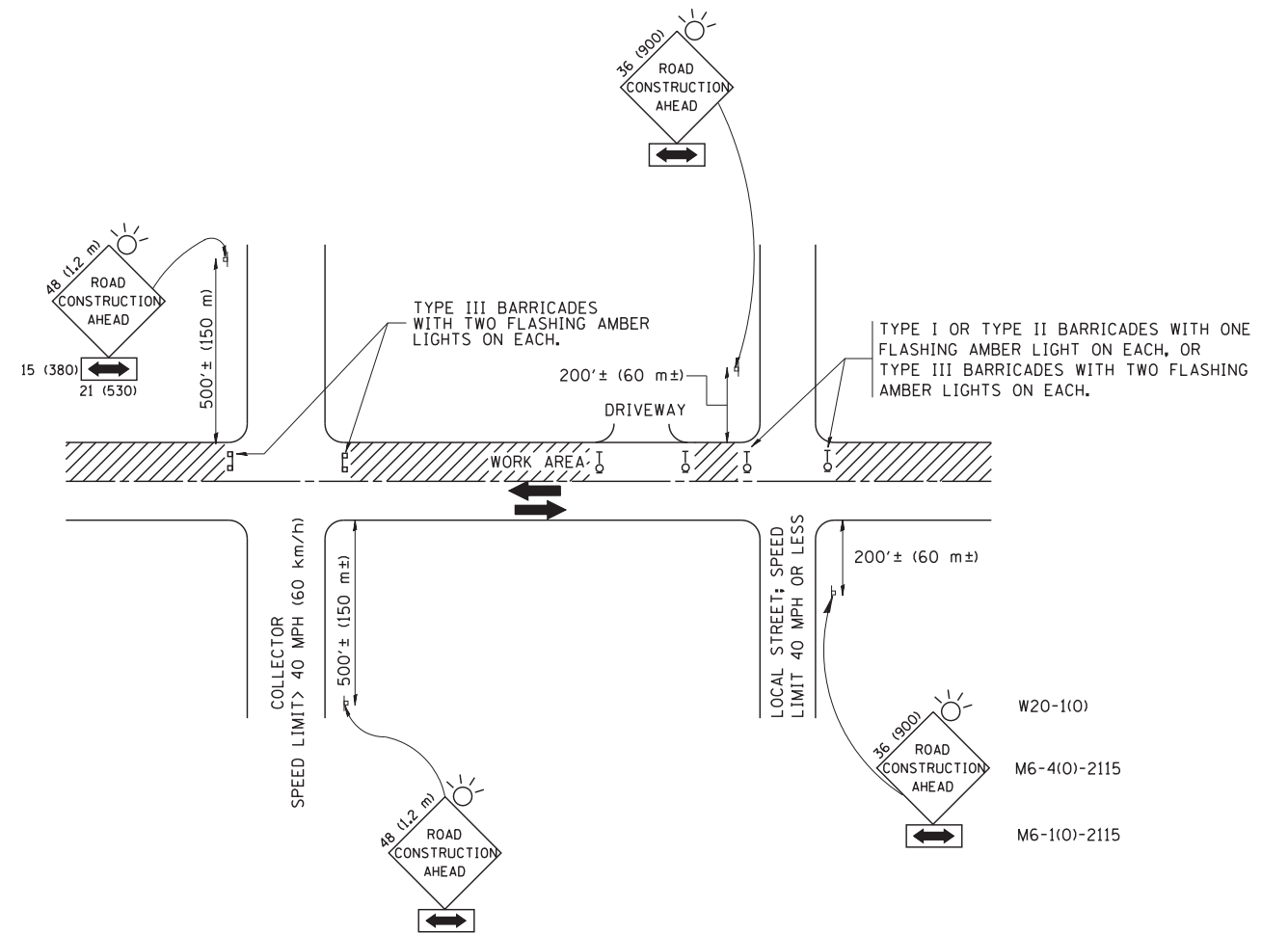
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL			
FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3387	(E-2)T	KANE	33	20
BD-51		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

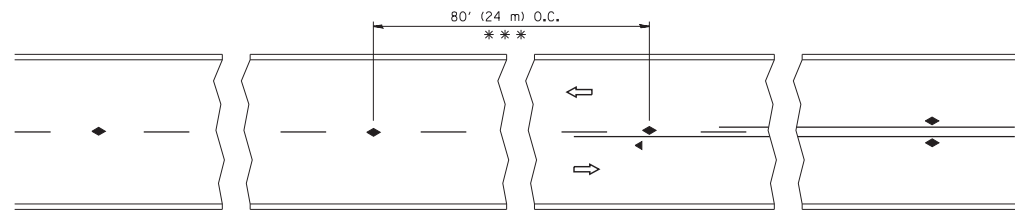
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	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

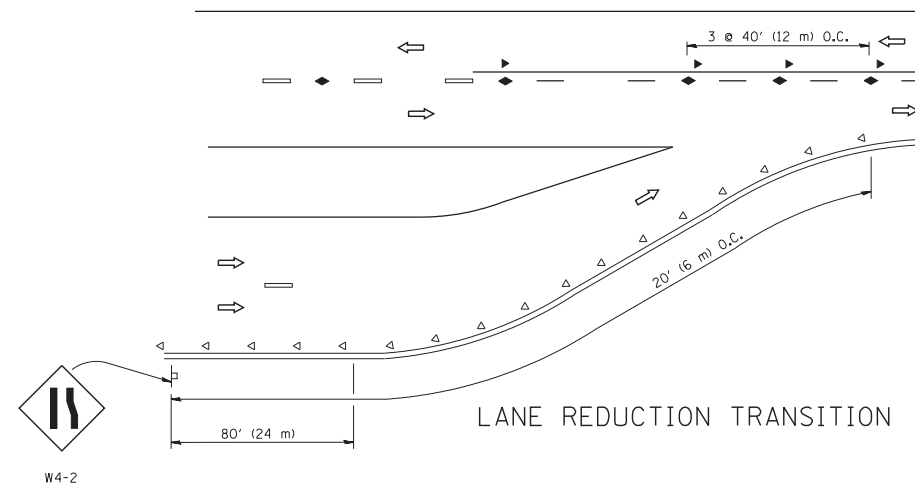
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F.A.U. R.T.E. 3387	SECTION (E-2)T	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 21
TC-10			CONTRACT NO. 60X04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

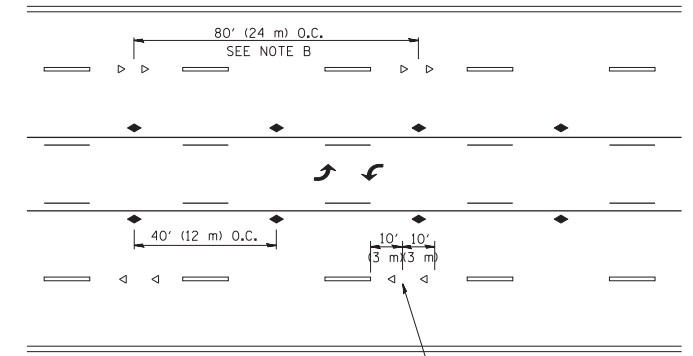


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

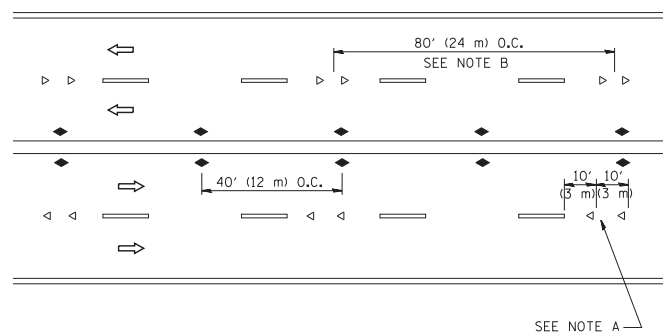
TWO-LANE/TWO-WAY



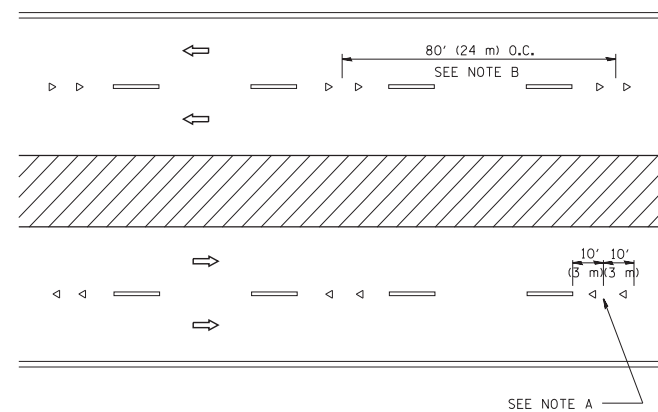
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

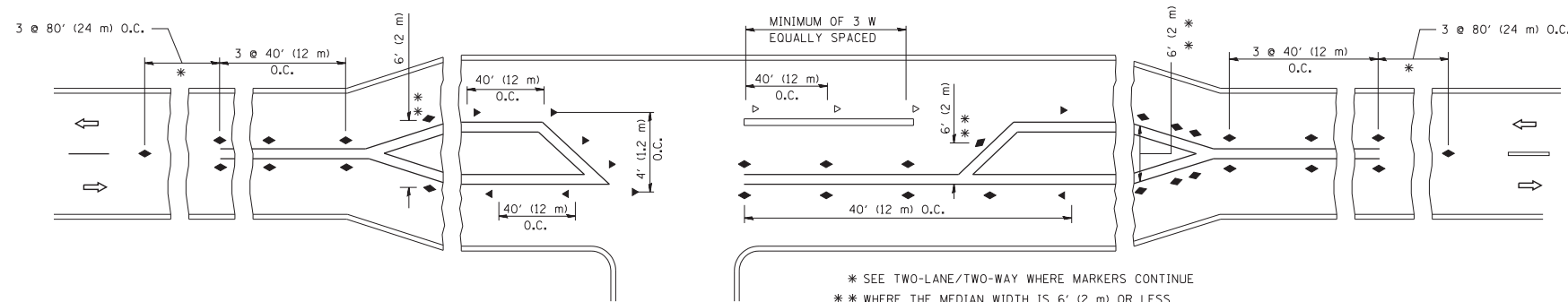
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

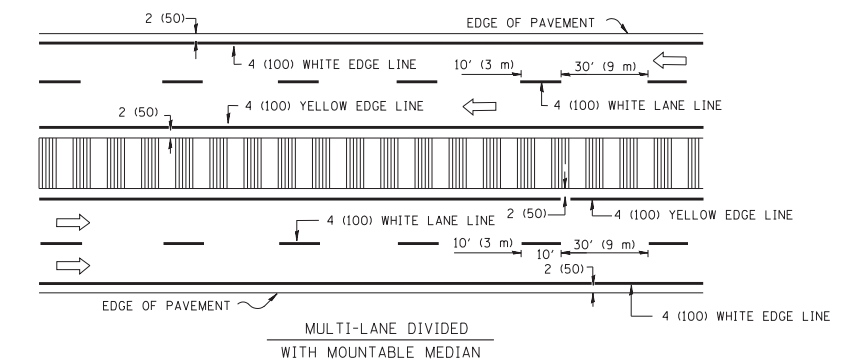
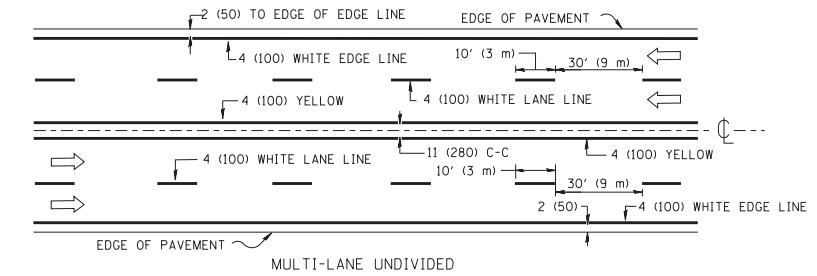
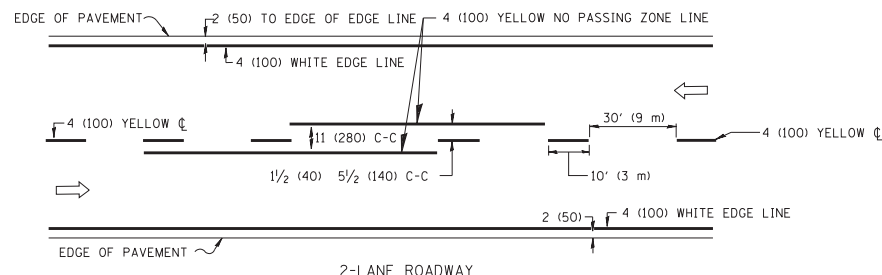
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	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

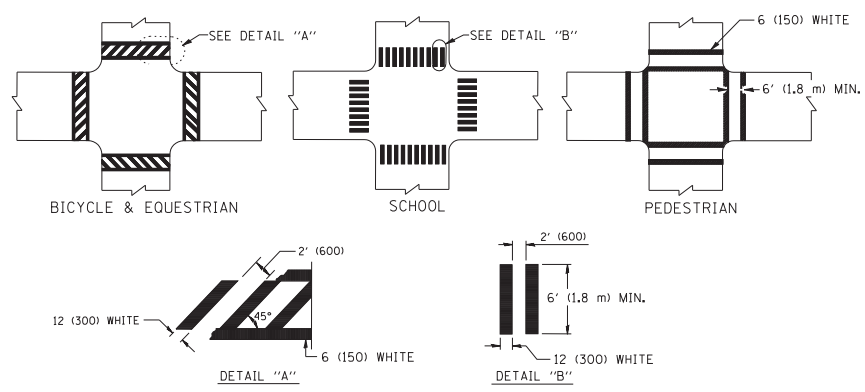
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

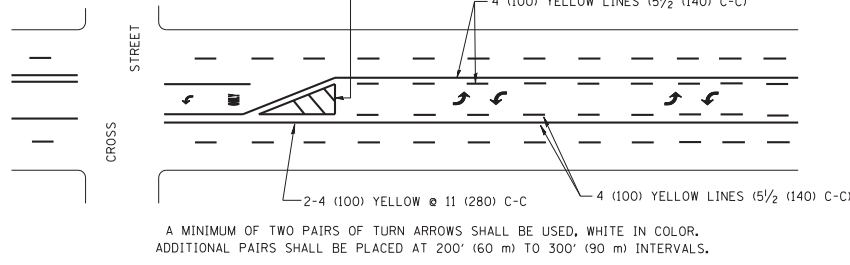
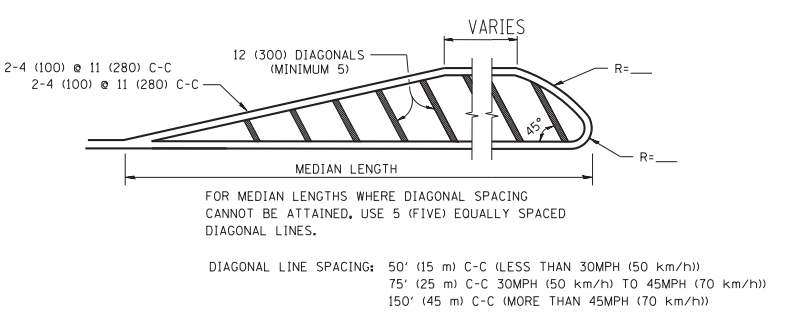
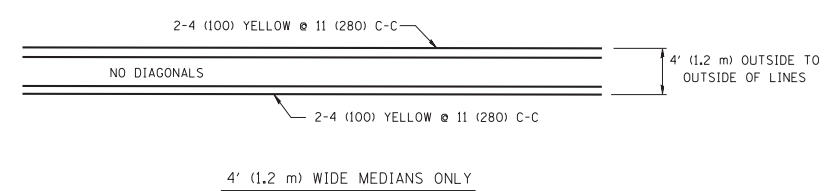


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

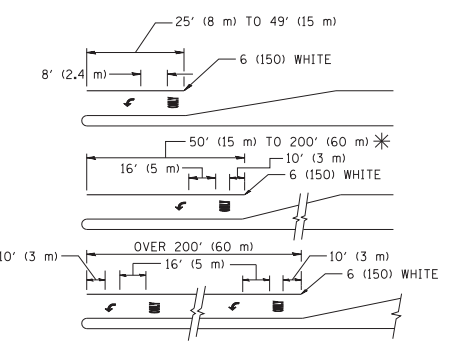
TYPICAL LANE AND EDGE LINE MARKING



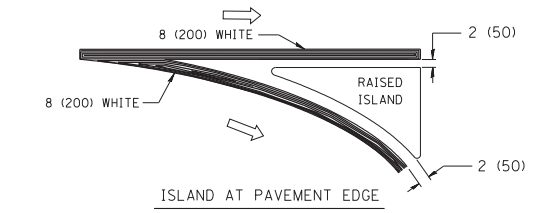
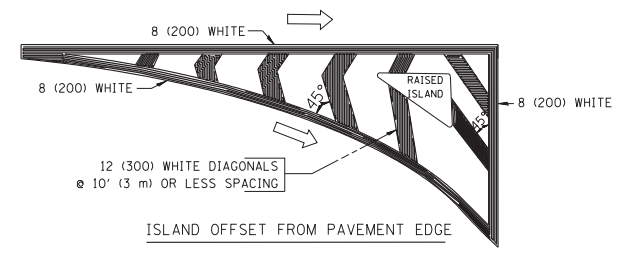
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

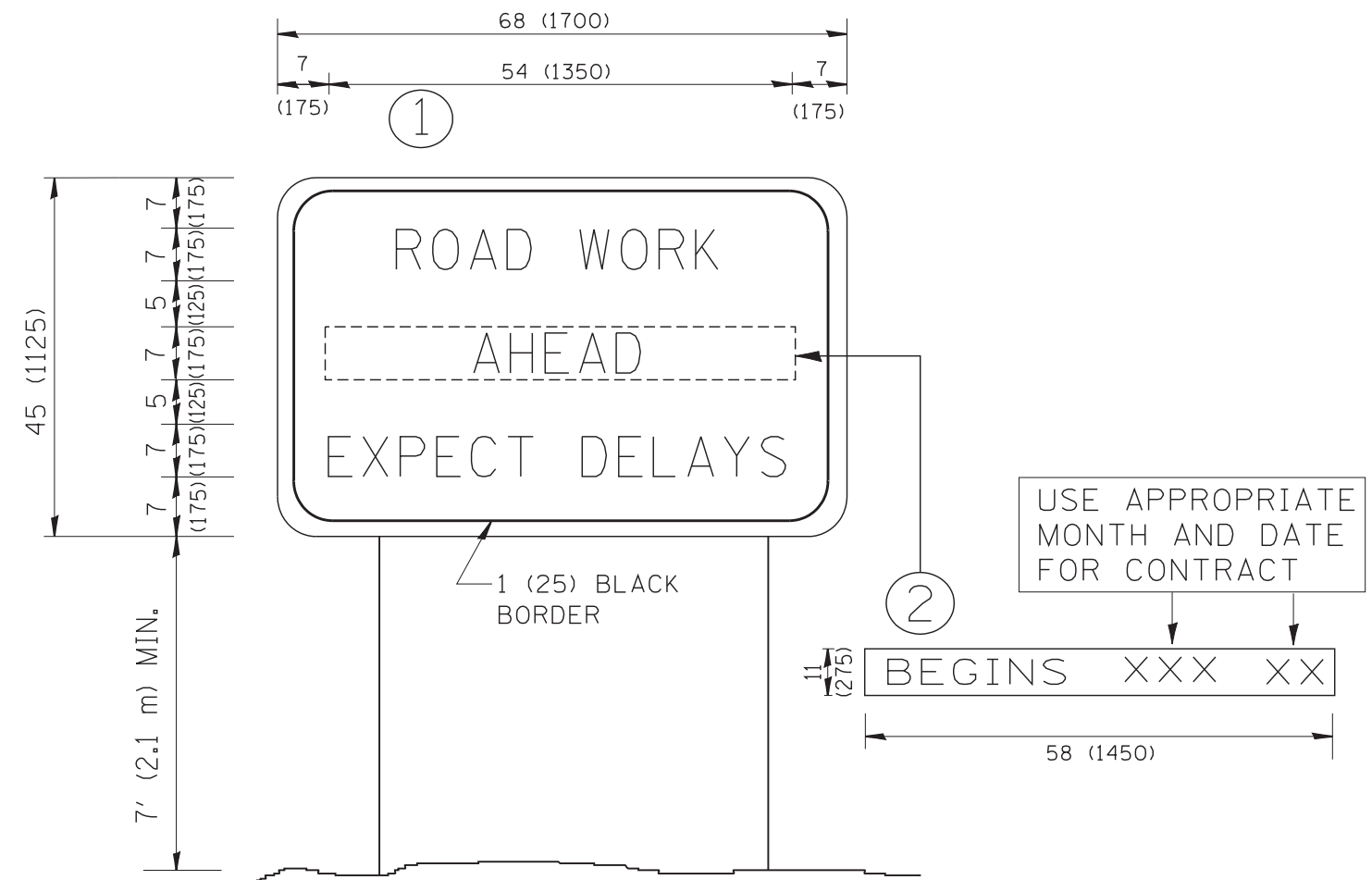
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		3887	(E-2)I	KANE	33	23
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-13		CONTRACT NO. 60X04		
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.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl@nabt	DESIGNED -	REVISED - R. MIRS 09-15-97
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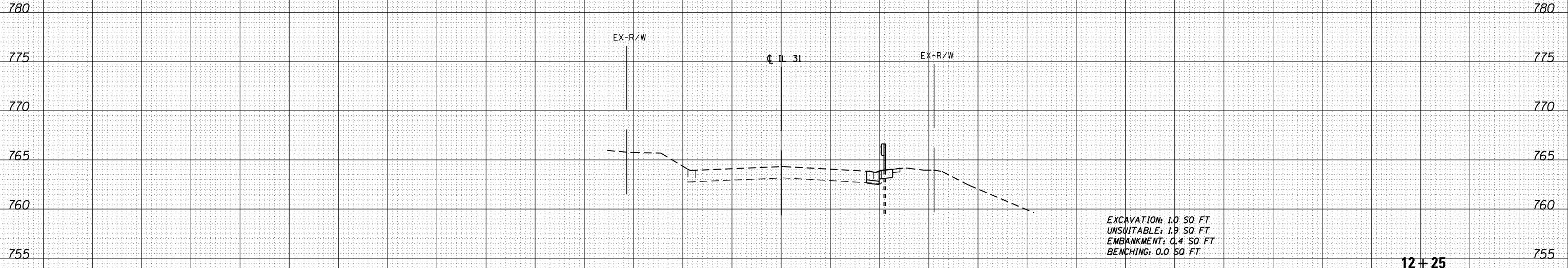
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

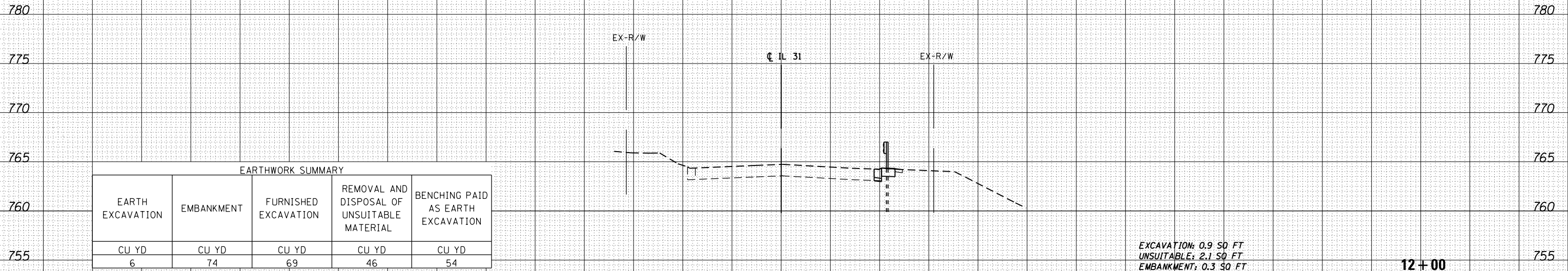
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F.A.U. RTE. 3387	SECTION (E-2)T	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 24
TC-22		CONTRACT NO. 60X04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



12+25



12+00

EARTHWORK SUMMARY

EARTH EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	BENCHING PAID AS EARTH EXCAVATION
CU YD	CU YD	CU YD	CU YD	CU YD
6	74	69	46	54

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

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



8501 W. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1485
DESIGNED -
DRAWN - ED
CHECKED - RS
DATE - 10/27/2014

REVISÉ -
REVISÉ -
REVISÉ -
REVISÉ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 12+00 TO STA. 12+25

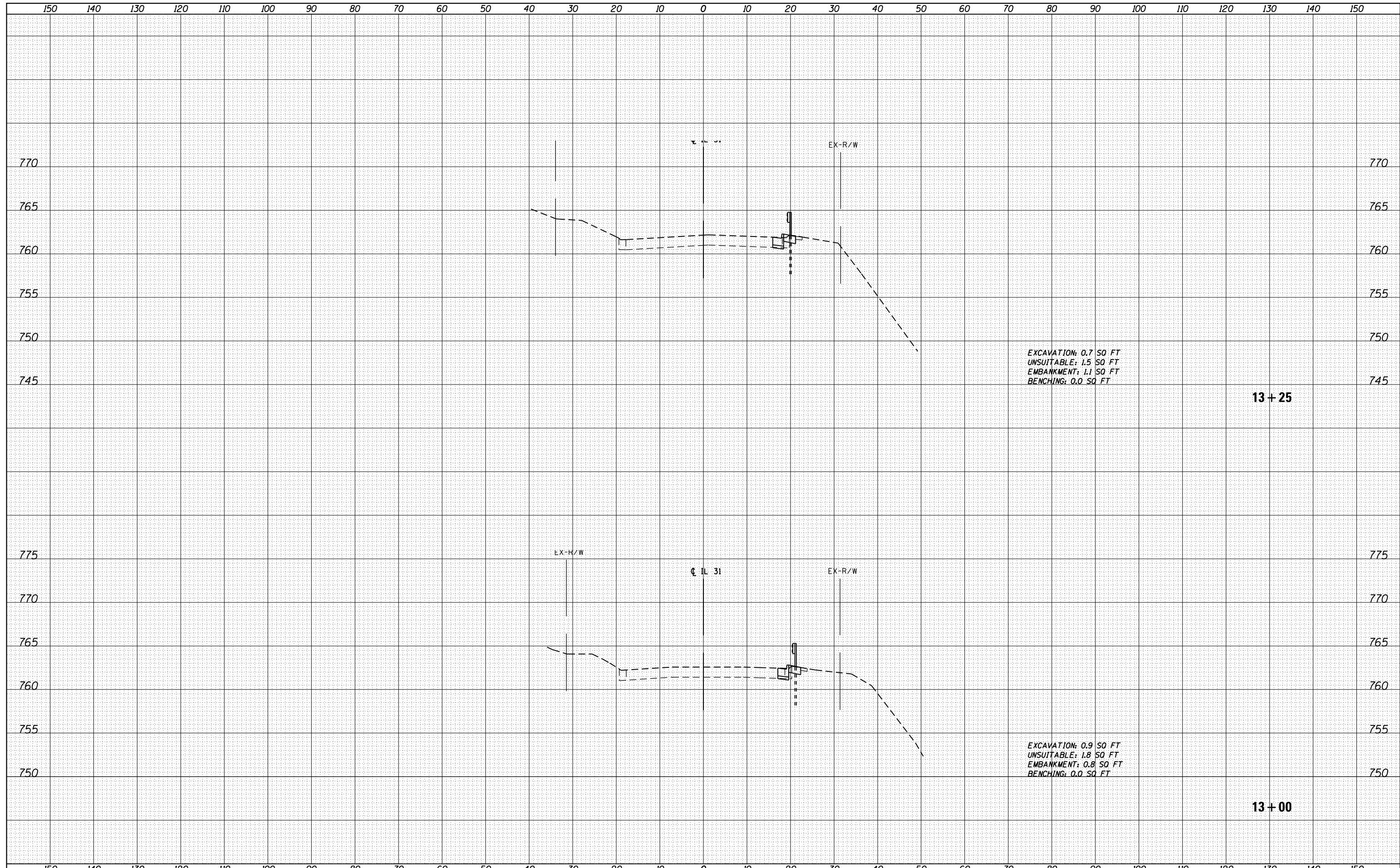
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	25

CONTRACT NO. 60X04

ILLINOIS FED. AID PROJECT

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

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



GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1485	DESIGNED -	REVISÉD -
	DRAWN - ED	REVISÉD -
PLOT SCALE = 20.0000' / in.	CHECKED - RS	REVISÉD -
PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISÉD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

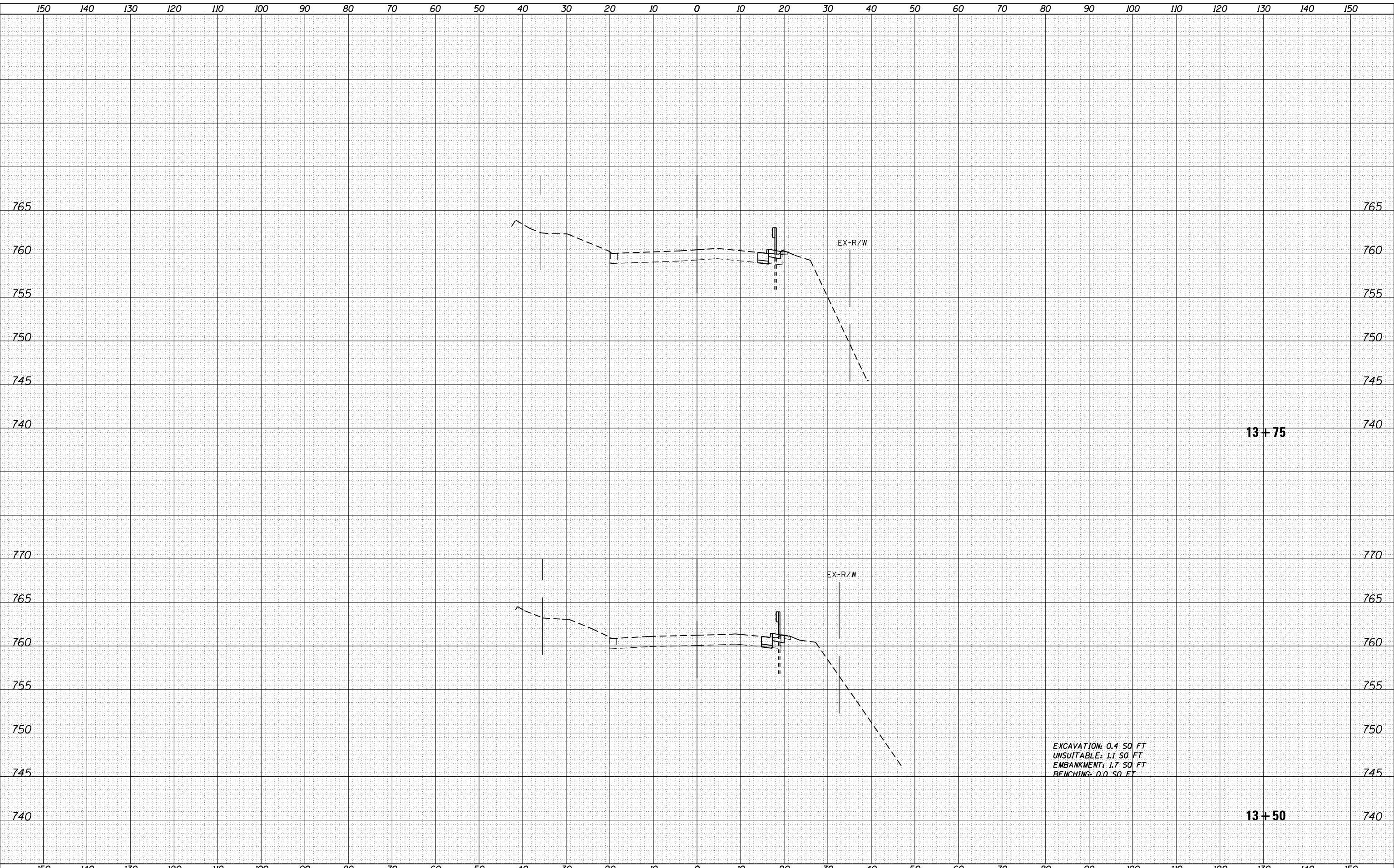
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CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 13+00 TO STA. 13+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	27
				CONTRACT NO. 60X04
ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1485	DESIGNED -	REVISIED -
	DRAWN - ED	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - RS	REVISIED -
PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

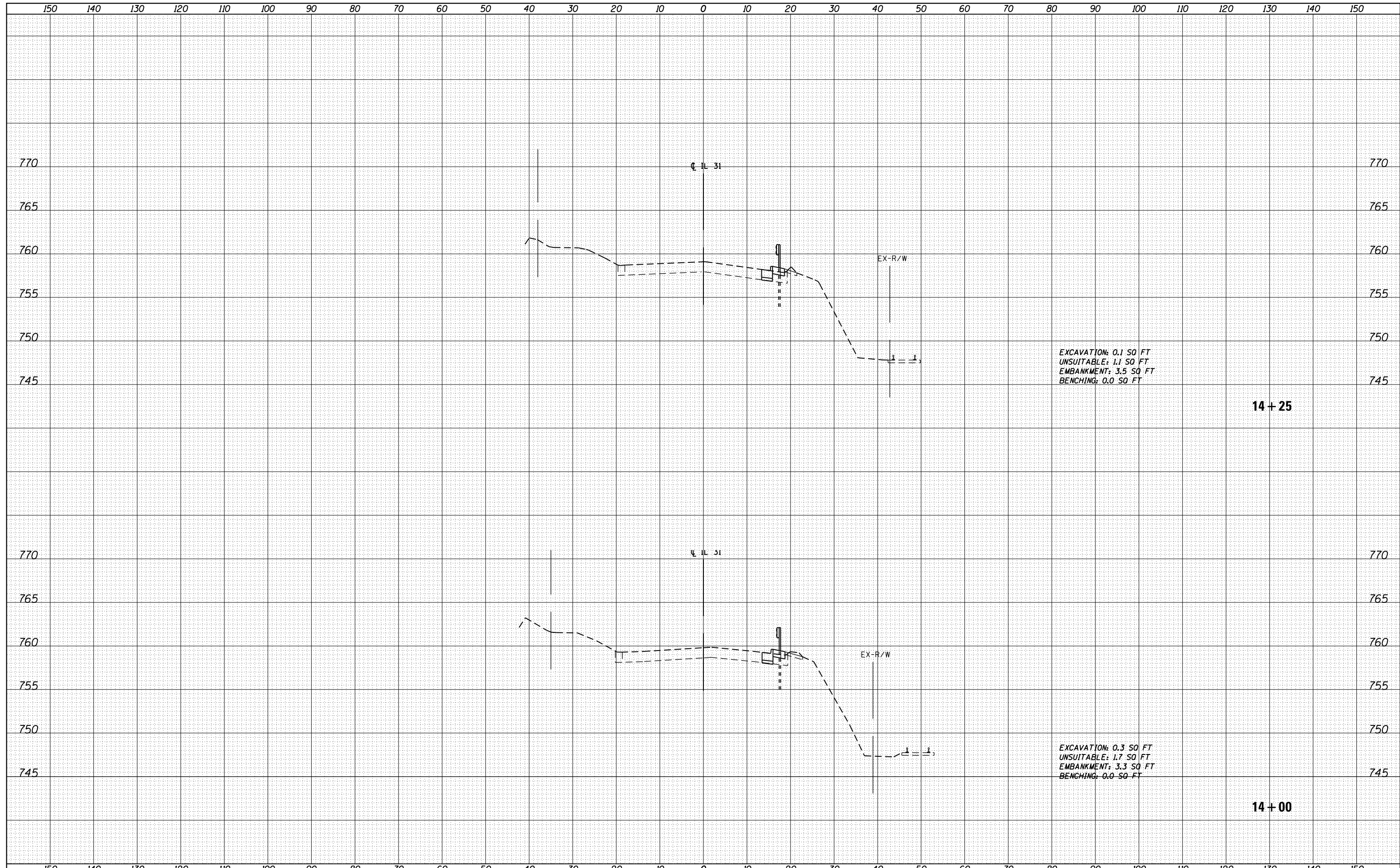
**IL 31 - UPRR TO LOCUST STREET
CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 13+50 TO STA. 13+75

F.A.U. RTE. 3887	SECTION (E-2)T	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 28
CONTRACT NO. 60X04			ILLINOIS FED. AID PROJECT	

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

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



EXCAVATION: 0.1 SO FT
 UNSUITABLE: 1.1 SO FT
 EMBANKMENT: 3.5 SO FT
 BENCHING: 0.0 SO FT

EXCAVATION: 0.3 SO FT
 UNSUITABLE: 1.7 SO FT
 EMBANKMENT: 3.3 SO FT
 BENCHING: 0.0 SO FT

14 + 25

14 + 00



USER NAME = 1485	DESIGNED -	REVISÉ -
	DRAWN - ED	REVISÉ -
PLOT SCALE = 20.0000' / in.	CHECKED - RS	REVISÉ -
PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISÉ -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET
 CROSS SECTIONS

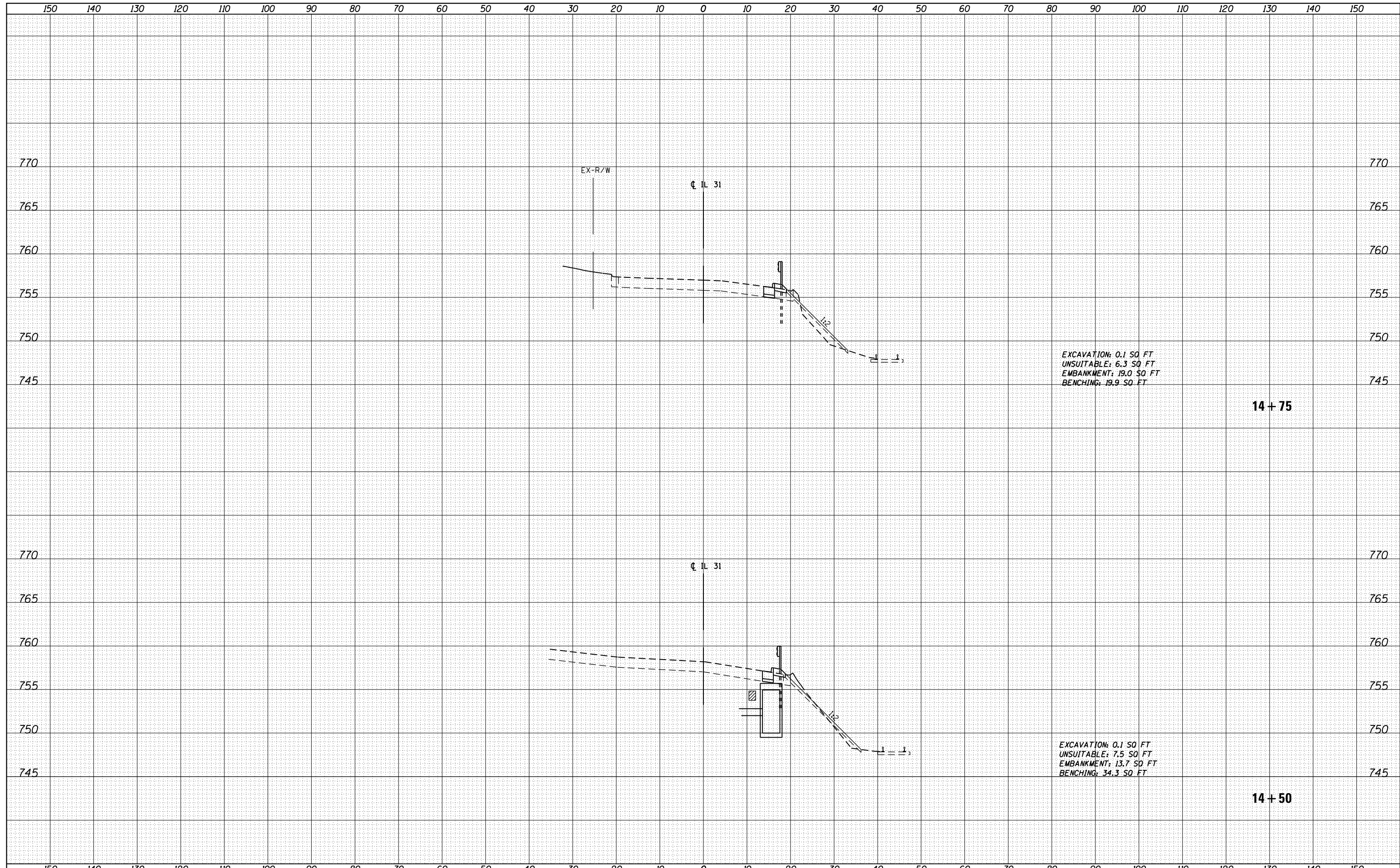
SCALE: SHEET OF SHEETS STA. 14+00 TO STA. 14+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	29
CONTRACT NO. 60X04				

ILLINOIS FED. AID PROJECT

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

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



EXCAVATION: 0.1 SQ FT
 UNSUITABLE: 6.3 SQ FT
 EMBANKMENT: 19.0 SQ FT
 BENCHING: 19.9 SQ FT

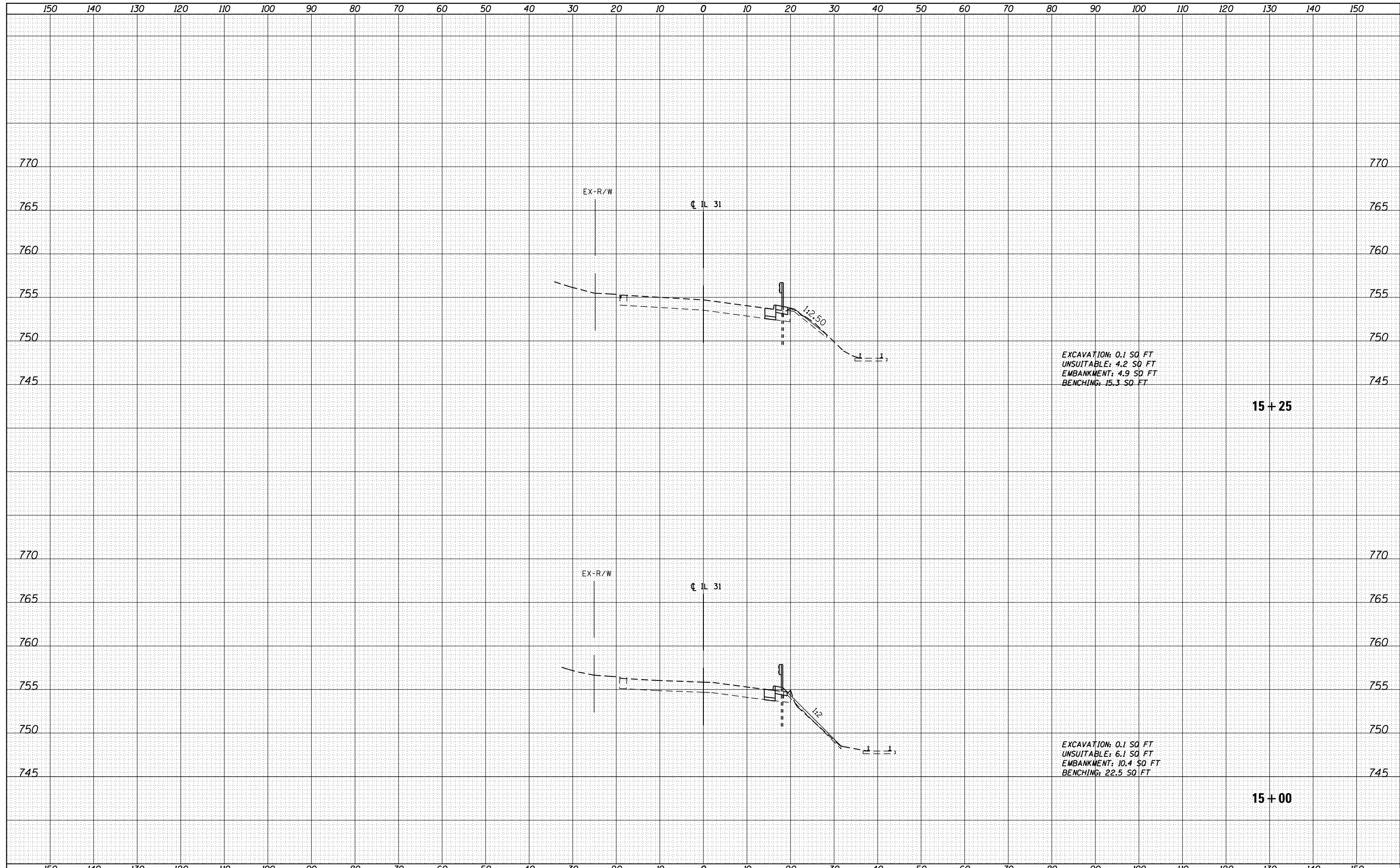
14 + 75

EXCAVATION: 0.1 SQ FT
 UNSUITABLE: 7.5 SQ FT
 EMBANKMENT: 13.7 SQ FT
 BENCHING: 34.3 SQ FT

14 + 50

DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
AREAS CHECKED	



EXCAVATION: 0.1 SQ FT
 UNSUITABLE: 4.2 SQ FT
 EMBANKMENT: 4.9 SQ FT
 BENCHING: 15.3 SQ FT

15 + 25

EXCAVATION: 0.1 SQ FT
 UNSUITABLE: 6.1 SQ FT
 EMBANKMENT: 10.4 SQ FT
 BENCHING: 22.5 SQ FT

15 + 00



USER NAME = 1485	DESIGNED -	REVISÉ -
	DRAWN - ED	REVISÉ -
PLOT SCALE = 20.0000' / in.	CHECKED - RS	REVISÉ -
PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISÉ -

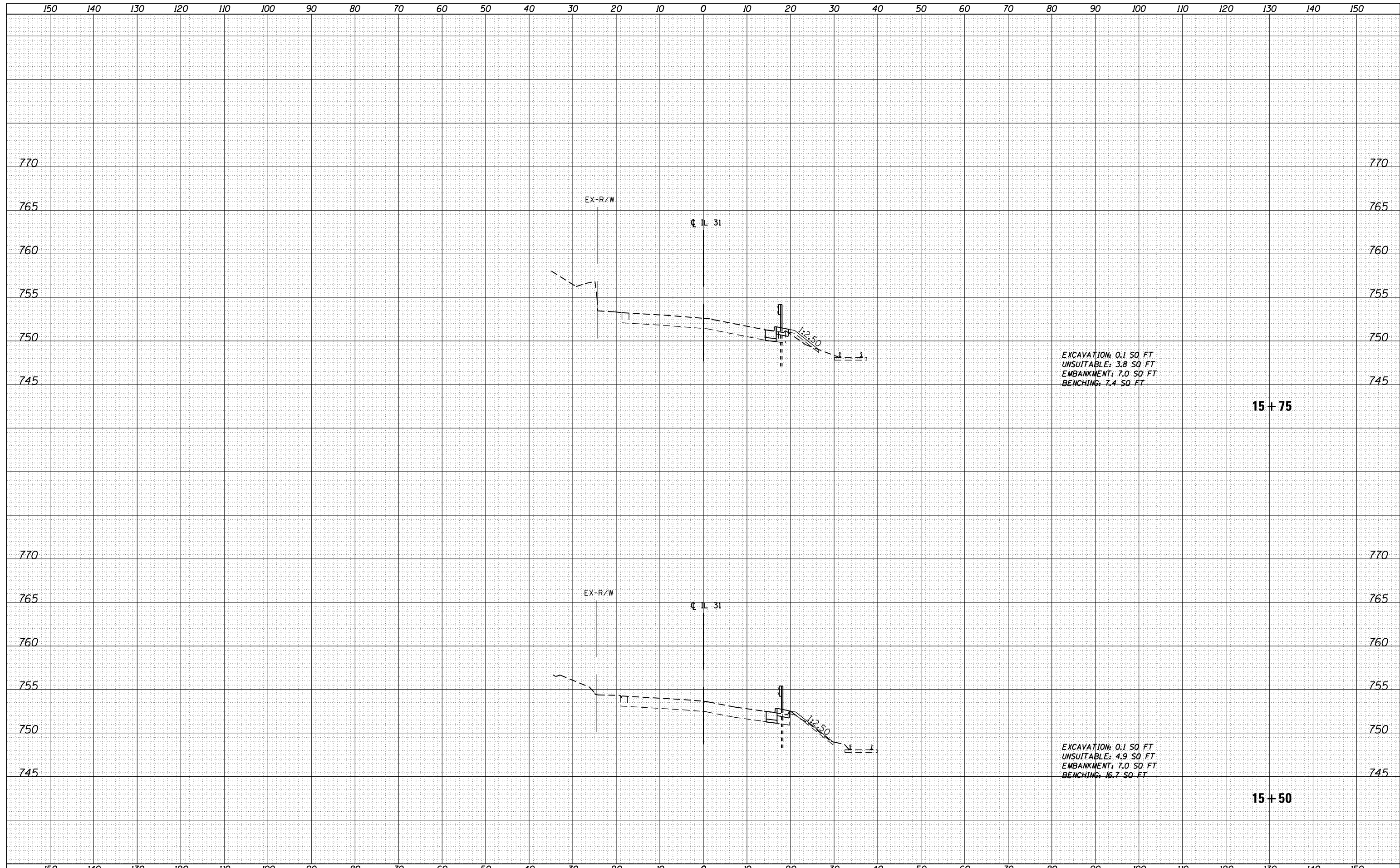
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 31 - UPRR TO LOCUST STREET CROSS SECTIONS			
SCALE:	SHEET	OF	SHEETS
			STA. 15+00 TO STA. 15+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	31
				CONTRACT NO. 60X04
ILLINOIS FED. AID PROJECT				

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

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



GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1485	DESIGNED -	REVISÉD -
	DRAWN - ED	REVISÉD -
PLOT SCALE = 20.0000' / in.	CHECKED - RS	REVISÉD -
PLOT DATE = 10/27/2014	DATE - 10/27/2014	REVISÉD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

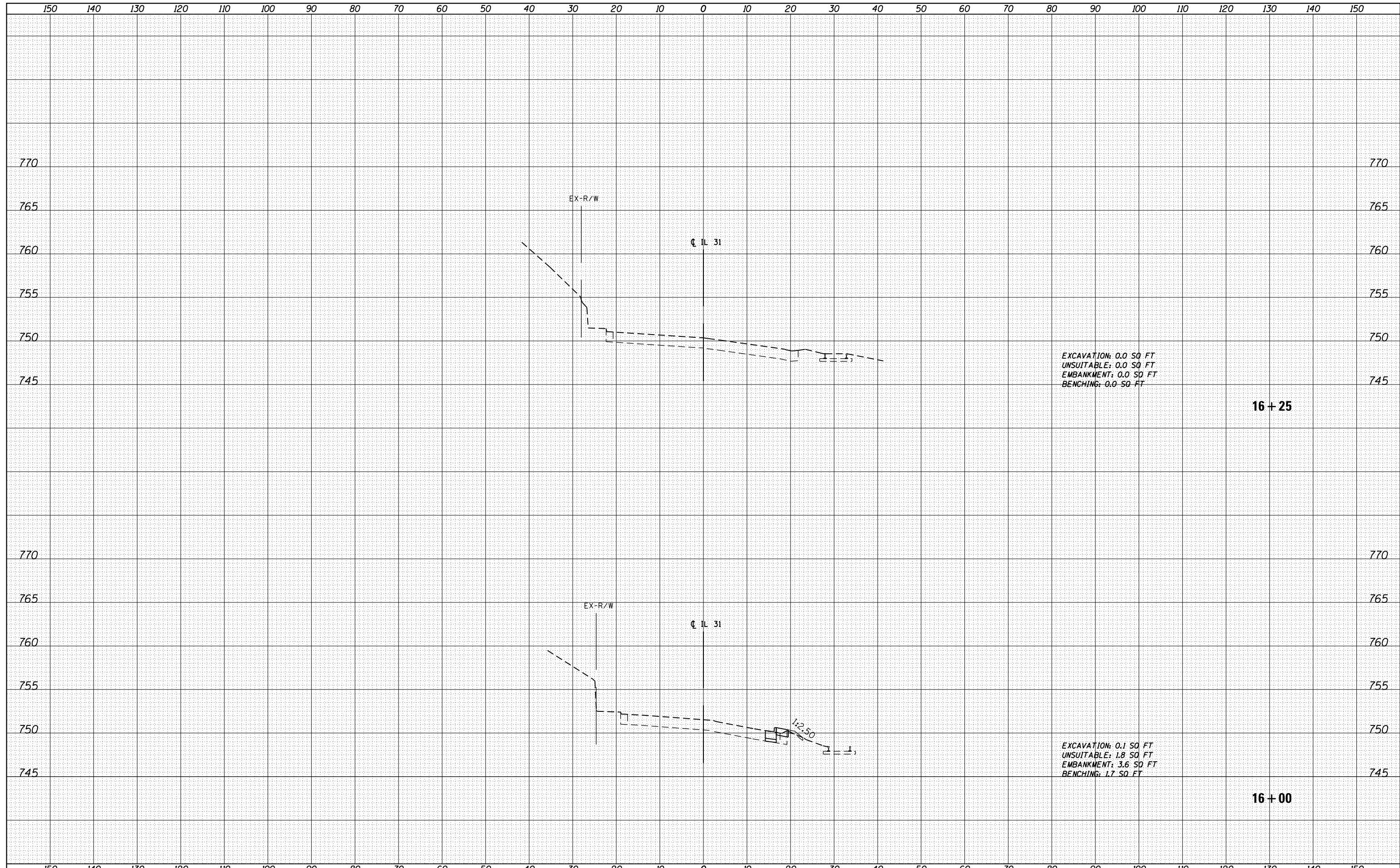
**IL 31 - UPRR TO LOCUST STREET
CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 15+50 TO STA. 15+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	(E-2)T	KANE	33	32
				CONTRACT NO. 60X04
ILLINOIS FED. AID PROJECT				

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

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



EXCAVATION: 0.0 SQ FT
 UNSUITABLE: 0.0 SQ FT
 EMBANKMENT: 0.0 SQ FT
 BENCHING: 0.0 SQ FT

16 + 25

EXCAVATION: 0.1 SQ FT
 UNSUITABLE: 1.8 SQ FT
 EMBANKMENT: 3.6 SQ FT
 BENCHING: 1.7 SQ FT

16 + 00