

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	1

*(1214 & 3127-1) RS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

F.A.P. 348: IL 43 (HARLEM AVE.)
SECTION (1214 & 3127-1) RS
US 6 (159TH ST.) TO IL 7 (SOUTHWEST HWY.)
RESURFACING (MAINTENANCE), LOOP DETECTORS,
& CULVERT REHABILITATION
PROJECT: MA-BHF-0348(040)
SN. 016-2400
COOK COUNTY

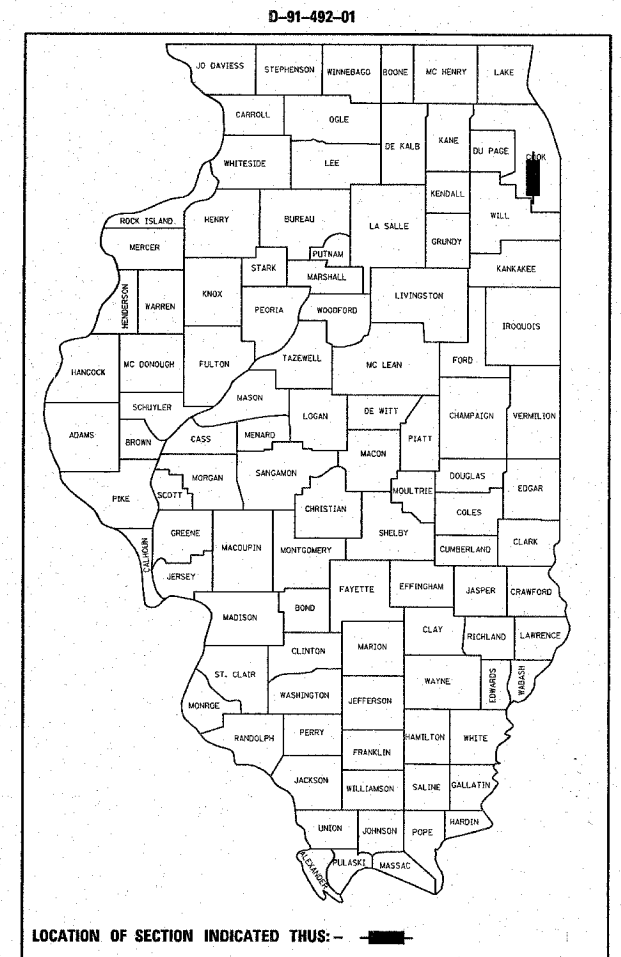
C-91-492-01
PALOS TWP. WORTH TWP.
R. 12 E. R. 13 E.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN
THE CITY OF PALOS HEIGHTS,
AND THE VILLAGES OF
WORTH & ORLAND PARK

TRAFFIC DATA:

IL-43 2006 ADT = 45,100
111TH ST. 2006 ADT = 24,300
POSTED SPEED LIMIT = 35-55 MPH



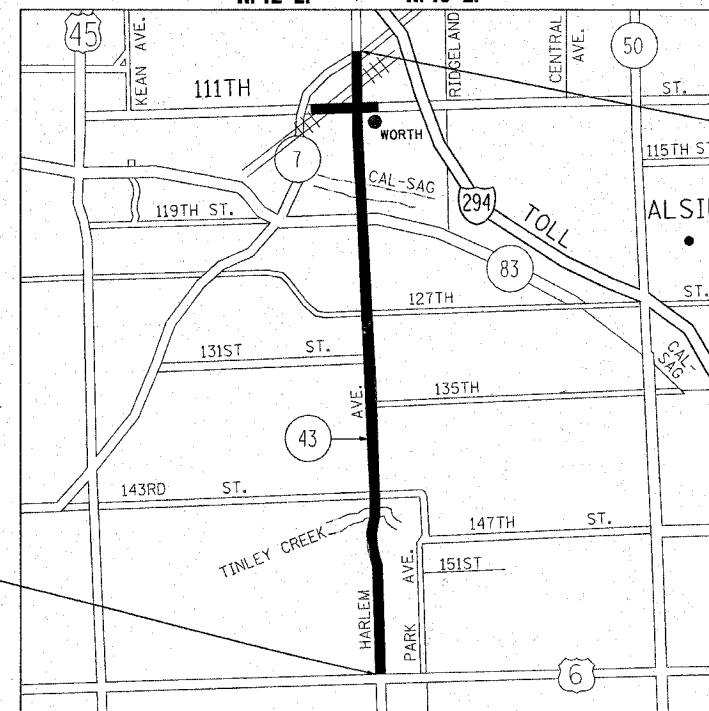
STATION EQUATIONS:
① STA. 446 + 79.94 BK = STA. 10 + 00.00 AH
② STA. 34 + 92.22 BK = STA. 4 + 89.00 AH

IMPROVEMENT BEGINS
STA. 360 + 59

IMPROVEMENT ENDS
STA. 242 + 92.6

NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO SECTION (1214 & 3127-1) RS-1 IT SHALL MEAN SECTION (1214 & 3127-1) RS.

OMISSIONS:
STA. 166 + 59 TO STA. 169 + 59



NET LENGTH OF IMPROVEMENT = 34,617 LIN. FEET = (6.556 MILES)
GROSS LENGTH OF IMPROVEMENT = 34,917 LIN. FEET = (6.613 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

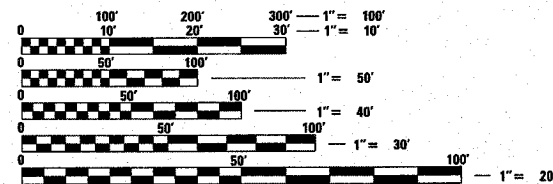
SUBMITTED Dec 18 20 07

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 20 08
Eric E. Harnish
ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



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

CONTRACT NO. 62343

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: K. ENG / LONG TRAN (847) 705-4240

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1214 & 3127-1) RS-1

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STATE STANDARDS, AND PLAN NOTES
3-5	SUMMARY OF QUANTITIES
6-14	TYPICAL CROSS SECTIONS
15-27	EXISTING AND PROPOSED ROADWAY AND PAVEMENT MARKING PLANS
28-40	CULVERT REHABILITATION PLANS (AT TINLEY CREEK ONLY)
41	EROSION AND SEDIMENT CONTROL PLAN
42	TREE REMOVAL & SUGGESTED CONTRACTOR ACCESS TO WORK ZONE
43	SUGGESTED STAGE CONSTRUCTION PLAN
44	GRADING AT TINLEY CREEK CULVERT PLAN
45-48	RIGHT OF WAY PLANS
49-63	DETECTOR LOOP REPLACEMENT PLANS
64	RESURFACING DETAILS AT RAILROAD BRIDGE CROSSING
65	DETAILS FOR FRAMES & LIDS ADJUSTMENT WITH MILLING
66	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
67	CURB & GUTTER REMOVAL & REPLACEMENT
68	BUTT JOINT AND HMA TAPER DETAIL
69	STEEL PLATE GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPECIAL
70	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
71	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
72	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
73	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
74	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
75	ARTERIAL ROAD INFORMATION SIGN
76	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
77-86	ROADWAY CROSS SECTION DETAILS (AT TINLEY CREEK ONLY)

STANDARDS

STD. NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442101-07	CLASS B PATCHES
442201-03	CLASS C & D PATCHES
604001-02	FRAME AND LIDS, TYPE 1
606001-03	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
630001-07	STEEL PLATE BEAM GUARDRAIL
630201-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701001-01	OFF-ROAD OPERATION, 2L, 2W, MORE THAN 4.5 m (15') AWAY
701006-02	OFF-ROAD OPERATION, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701101-01	OFF-ROAD OPERATION, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701336-04	LANE CLOSURE, 2L, 2W, WORK AREA IN SERIES, FOR SPEED ≥ 45 MPH
701421-01	LANE CLOSURE MULTILANE DAY OPERATION ONLY, FOR SPEED ≥ 45 MPH
701423-02	LANE CLOSURE MULTILANE, WITH BARRIER, FOR SPEED ≥ 45 MPH TO 55 MPH
701426-02	LANE CLOSURE MULTILANE, INTERMITTANT OR MOVING OPERATION FOR SPEED ≥ 45 MPH
701601-05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-03	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901	TRAFFIC CONTROL DEVICES
814001-01	HANDHOLES
814006-06	DOUBLE HANDHOLES
886001	DETECTOR LOOP INSTALLATIONS

PLAN NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 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 CITY OF PALOS HEIGHTS AND VILLAGES OF WORTH AND ORLAND PARK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSIONS FROM THE DEPARTMENT.

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 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.

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO HIRE AN ENVIRONMENTAL FIRM TO MONITOR FOR SOIL CONTAMINATION AND WORKER PROTECTION AT SEVERAL LOCATIONS - SEE SPECIAL PROVISIONS.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO A DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OVERHEAD, SURFACE, AND UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL PROPOSED DRIVEWAYS SHALL BE BITUMINOUS UNLESS OTHERWISE SPECIFIED AS PORTLAND CEMENT CONCRETE ON THE PLAN SHEETS.

PLAN NOTES

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF OUTMOST IMPORTANCE TO THE CITY OF PALOS HEIGHTS AND VILLAGES OF WORTH AND ORLAND PARK. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. HAND EXCAVATION SHALL BE PERFORMED IF MAJOR ROOTS ARE PRESENT. MAJOR ROOTS OF A TREE THAT ARE TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREAS AT AN ELEVATION THAT WOULD INTERFERE WITH ANY PORTION OF THE PLANNED CONSTRUCTION SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXCAVATION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF DAMAGE TO THE REMAINING TREE STRUCTURE. THE EXPENSE OF ANY REQUIRED HAND EXCAVATION AND/OR THE CUTTING OF MAJOR TREE ROOTS, AS DESCRIBED ABOVE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT LINE ITEM BEING REMOVED OR INSTALLED AT THAT LOCATION.

THE ENGINEER WILL CONTACT STEVE LIPKIE OF THE ROADSIDE DEVELOPMENT UNIT AT (847)705-4173, AT LEAST 72 HOURS PRIOR TO SELECTIVE CLEARING AND PLANTING LAYOUT.

TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIP LINE OF THE EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

EROSION CONTROL WORK ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.

THE LANDSCAPING AND EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		IL. RTE. 43 (HARLEM AV.) INDEX OF SHEETS LIST OF STATE STANDARDS PLAN NOTES U.S. 6 TO IL. RTE. 7 SCALE: VERT. NONE HORIZ. DATE 12/18/2007 DRAWN BY CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1214 & 3127-DRS-1	COOK	86	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		MA 1000 IL-43	MA 1000 111ST ST.	BHF X028-2A CULVERT REHAB		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	176	176				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	25	25				
20101000	TEMPORARY FENCE	FOOT	450			450		
20101100	TREE TRUNK PROTECTION	EACH	17			17		
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	20			20		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	20			20		
20101700	SUPPLEMENTAL WATERING	UNIT	43	43				
20200100	EARTH EXCAVATION	CU YD	247	247				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	4300	4300				
21101815	COMPOST FURNISH AND PLACE, 4"	SO YD	4300			4300		
21400100	GRADING AND SHAPING DITCHES	FOOT	40			40		
25000310	SEEDING, CLASS 4	ACRE	0.89	0.89				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	80	80				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	80	80				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	80	80				
25000750	MOWING	ACRE	0.89	0.89				
25100630	EROSION CONTROL BLANKET	SO YD	4300	4300				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	89			89		
28000300	TEMPORARY DITCH CHECKS	EACH	2	2				
28000310	AGGREGATE DITCH CHECKS	EACH	1			1		
28000400	PERIMETER EROSION BARRIER	FOOT	1070	1070				
28100105	STONE RIPRAP, CLASS A3	SO YD	11			11		
28100207	STONE RIPRAP, CLASS A4	TON	154			154		
28200200	FILTER FABRIC	SO YD	154			154		
28400100	GABIONS	CU YD	82			82		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	203	196	7			
40600300	AGGREGATE (PRIME COAT)	TON	1008	977	31			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	77	74	3			
40600895	CONSTRUCTING TEST STRIP	EACH	2	2				

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		MA 1000 IL-43	MA 1000 111ST ST.	BHF X028-2A CULVERT REHAB		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	13548	12893	655			
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	90	90				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	30,230	29,446	784			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	600	600				
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	8717	8717				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	23803	23803				
44000600	SIDEWALK REMOVAL	SO FT	600	600				
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1080	1080				
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	6370	6370				
44002202	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 1/2"	SO YD	533	533				
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SO FT	26346	19520	6826			
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	60	60				
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	40	40				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	20	20				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	4188	3694	494			
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	600	600				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	1390	1310	80			
44213100	PAVEMENT FABRIC	SO YD	40	40				
44213200	SAW CUTS	FOOT	406	406				
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	703	703				
50102400	CONCRETE REMOVAL	CU YD	251.3			251.3		
50200100	STRUCTURE EXCAVATION	CU YD	3691			3691		
50800105	REINFORCEMENT BARS	POUND	55880			55880		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3100			3100		
51500100	NAME PLATES	EACH	1			1		
54002000	EXPANSION BOLTS 3/4 INCH X 12 INCH	EACH	112			112		
54003000	CONCRETE BOX CULVERTS	CU YD	284.2			284.2		

1/10/2008

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
IL-43 (HARLEM AVE.)
US 6 TO IL-7

REV. REV. 01-10-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(1214 & 3127-IIRS-1)	COOK	86	4
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			80% FED. 20% STATE URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		MA 1000 IL-43	MA 1000 111ST ST.	BHF X028-2A CULVERT REHAB
59000200	EPOXY CRACK INJECTION	FOOT	180		180	
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SO YD	66		66	
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	50	50		
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2		
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	10	10		
60255600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	41	41		
60400105	FRAMES, TYPE 1	EACH	10	10		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	320	320		
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1100	1100		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	24	24		
63200310	GUARDRAIL REMOVAL	FOOT	2300	2300		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	1		
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1	1		
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1	1		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	22941	22941		
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1926	1926		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	84481	84481		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6283	6283		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2091	2091		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	656	656		

SUMMARY OF QUANTITIES			80% FED. 20% STATE URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		MA 1000 IL-43	MA 1000 111ST ST.	BHF X028-2A CULVERT REHAB
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1815	1815		
70300500	PAVEMENT MARKING TAPE, TYPE III	FOOT	3120	3120		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1080	1080		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2009	1926	83	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	90393	84481	5912	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6891	6283	608	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2091	2091		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	656	656		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1899	1815	84	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3790	3790		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	24	24		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3790	3790		
* 87900200	DRILL EXISTING HANDHOLE	EACH	4		4	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	6039		6039	
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	22		22	
* A2005116	TREE, JUGLANS NIGRA (BLACK WALNUT), 2" CALIPER, BALLED AND BURLAPPED	EACH	20		20	
28000000	AGGREGATE (EROSION CONTROL)	TON	1		1	
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	104	52	52	
* X0322323	WEED CONTROL, TEASEL	GALLON	5	5		
X0322494	CURB CUT	FOOT	18627	18627		
* X0322859	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	2		2	
X0323817	SEDIMENT CONTROL, SILT CURTAIN	EACH	1		1	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SO FT	3363		3363	
* X0325205	MONODIRECTIONAL REFLECTORS TYPE C	EACH	22	22		

1/10/2008 8:48:20 AM

*SPECIALTY ITEMS REV. 01-10-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
IL-43 (HARLEM AVE.)
US 6 TO IL-7

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1214 & 3127-1RS-1	COOK	86	5
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			80% FED. 20% STATE URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		MA I000 IL-43	MA I000 111ST ST.	8HF X028-2A CULVERT REHAB			CODE NO	ITEM		UNIT	I0002A IL-43	I000 111ST ST.	CULVERT REHAB	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	704			704										
X0325389	SILT CURTAIN REMOVAL	SO YD	25			25										
X0329891	SILT CURTAIN	SO YD	25			25										
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	10179	9918	261											
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SO YD	45930	44446	1484											
50104650	SLOPEWALL REMOVAL	SO YD	238.6			238.6										
Z0005305	BOX CULVERTS TO BE CLEANED	FOOT	421			421										
Z0013798	CONSTRUCTION LAYOUT	L SUM	1			1										
Z0017202	DOWEL BARS 1 1/2"	EACH	200	200												
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50	50												
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2												
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1												
Z0064800	SELECTIVE CLEARING	UNIT	39			39										
Z0075300	TIE BARS	EACH	74	74												
Z0076600	TRAINEES	HOURL	2500	2500												

NP - NON-PARTICIPATING
© Y080

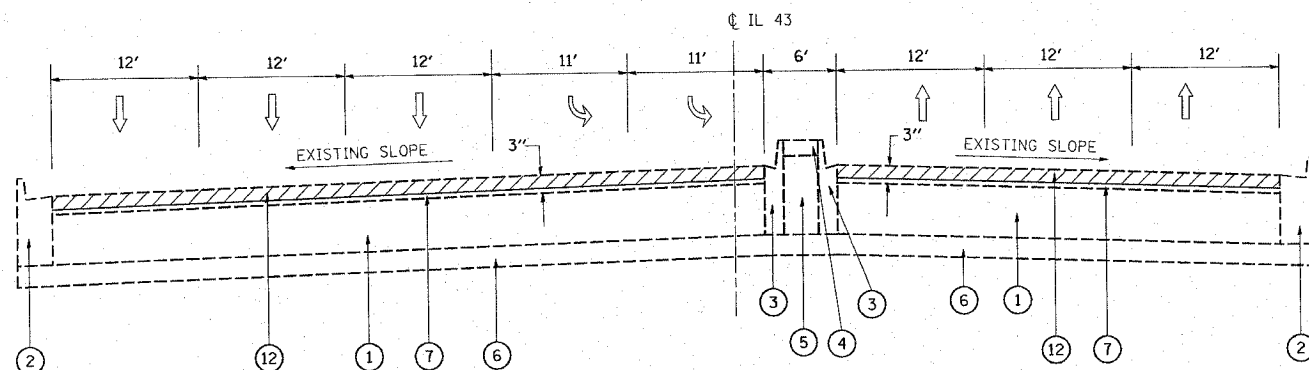
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
IL-43 (HARLEM AVE.)
US 6 TO IL-7

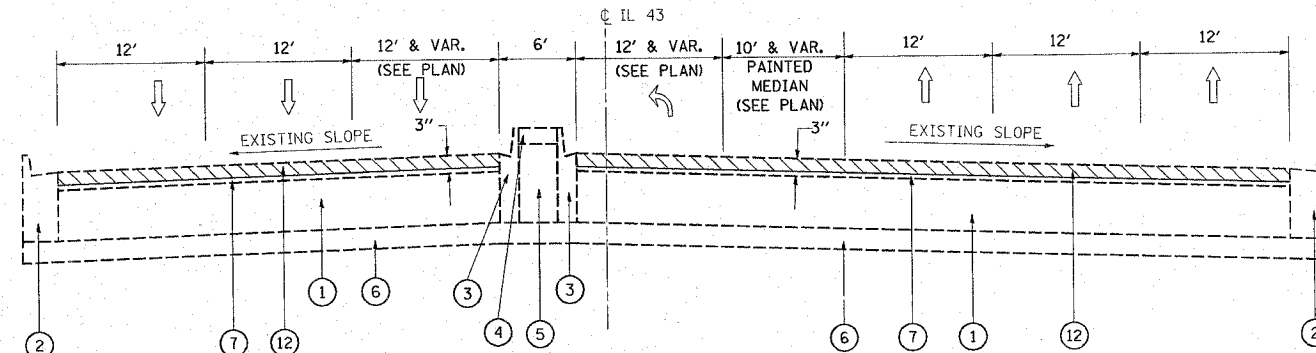
Rev. REV. 01-10-08

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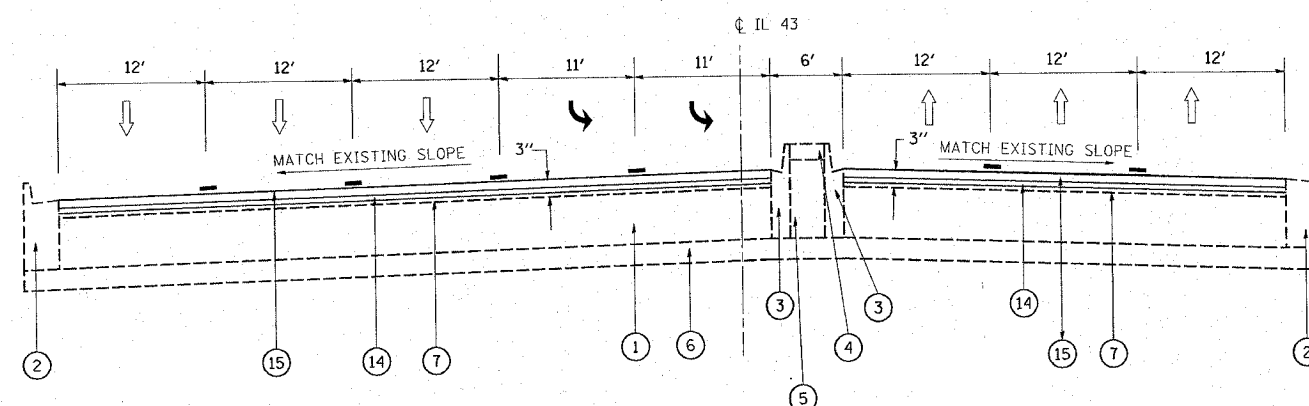
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	36	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(1214 & 3127-1) RS-1				



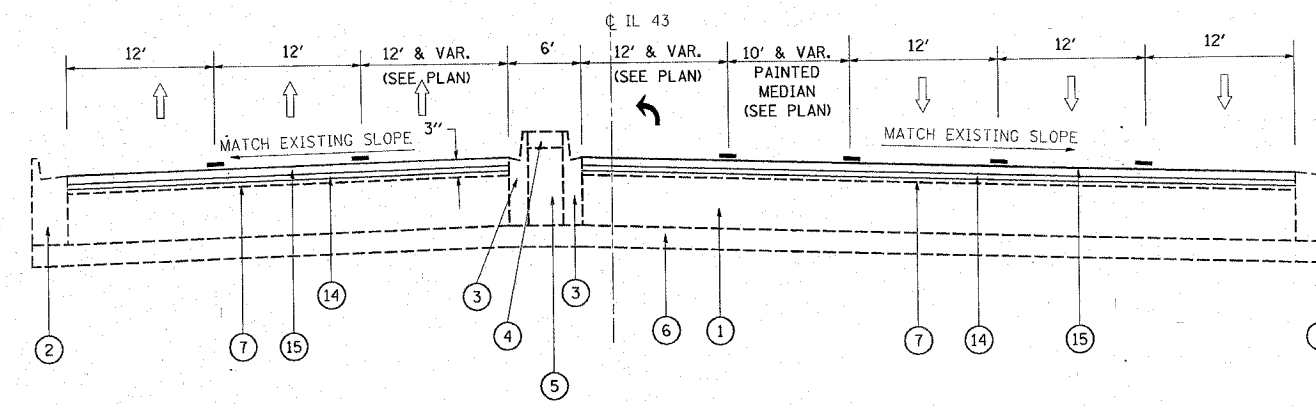
EXISTING TYPICAL SECTION
STA. 360+59 TO STA. 363+04



EXISTING TYPICAL SECTION
STA. 363+04 TO STA. 366+48
STA. 369+48 TO STA. 372+84



PROPOSED TYPICAL SECTION
STA. 360+59 TO STA. 363+04



PROPOSED TYPICAL SECTION
STA. 363+04 TO STA. 366+48
STA. 369+48 TO STA. 372+84

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2 "
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"
- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2" ± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2 "
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2" ±
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑯ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2 " - 1 3/4"

ANY EARTH WORK NEEDED AT THE BACK OF CURB WILL NOT BE PAID SEPARATELY, IT SHALL BE INCIDENTAL TO C&G REMOVAL & REPLACEMENT

NOTE:
THE EXACT LOCATION OF CURB AND GUTTER AND MEDIAN REPAIRS WILL BE DETERMINED BY THE R.E. IN THE FIELD

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REVISIONS	
NAME	DATE

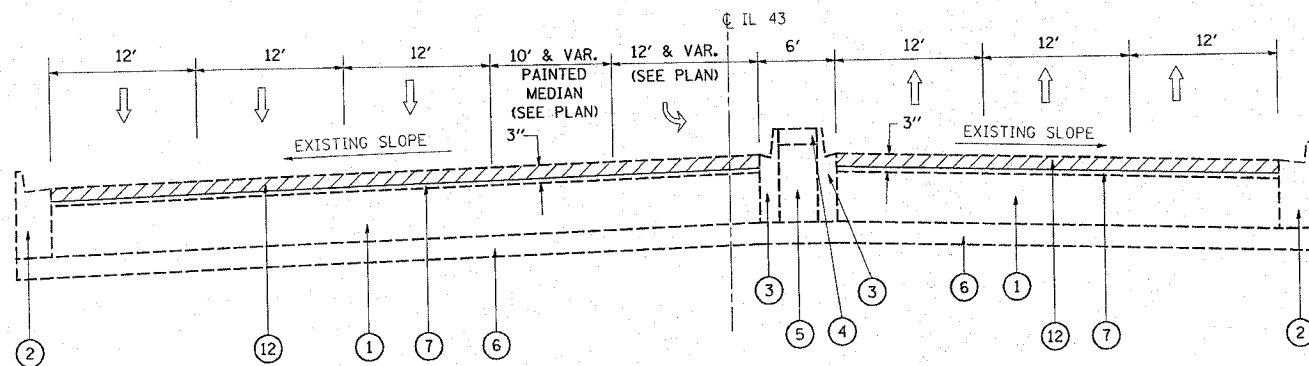
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RT. 43 (HARLEM AVE.)
EXISTING & PROPOSED
TYPICAL SECTIONS

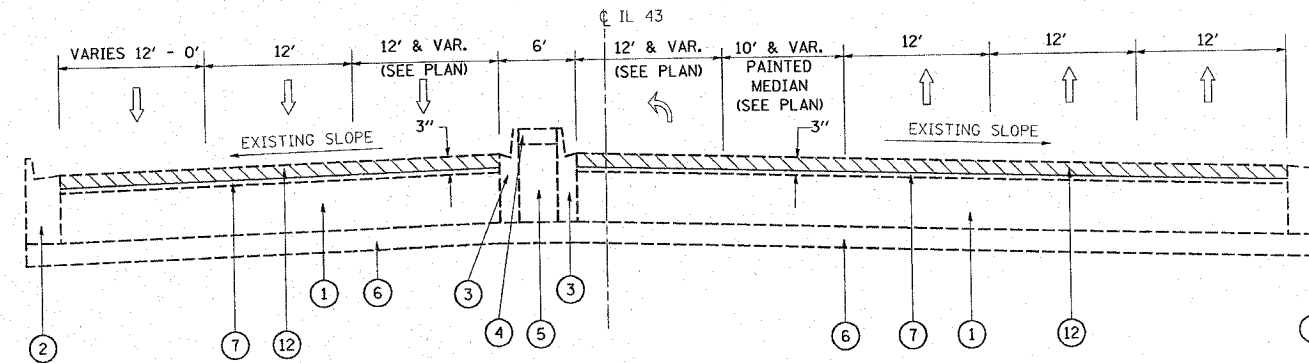
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DATE 12/5/2007

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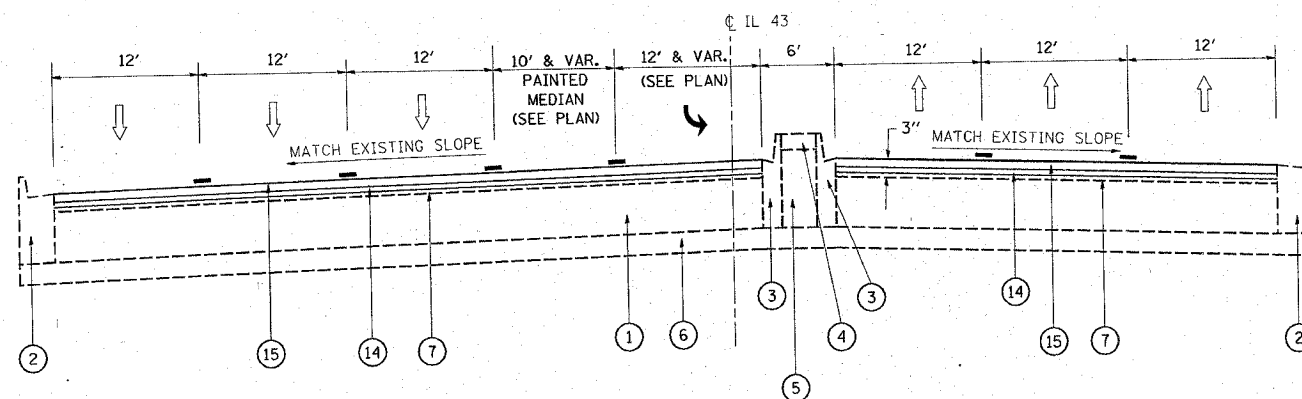
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1214 & 3127-1) RS-1				



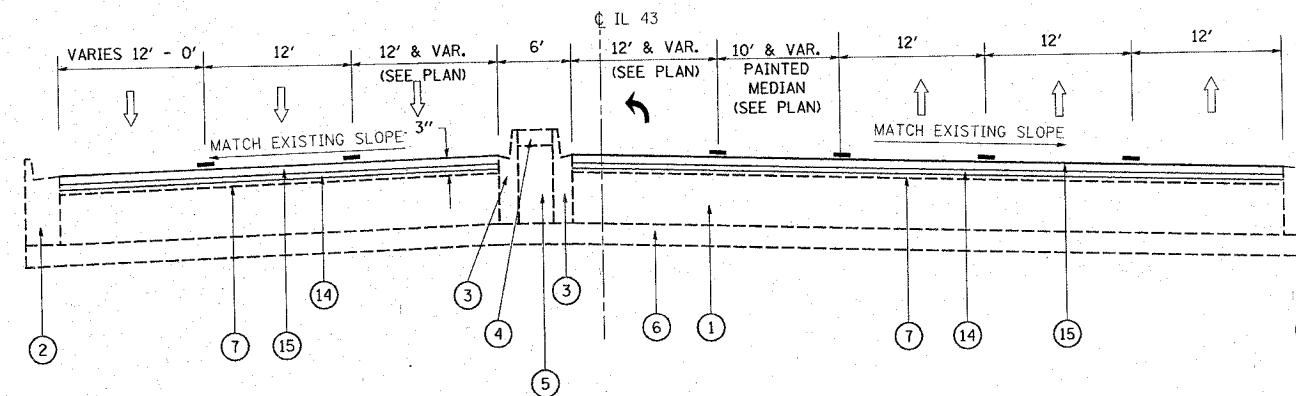
EXISTING TYPICAL SECTION
STA. 366+48 TO STA. 369+48
STA. 372+84 TO STA. 375+22



EXISTING TYPICAL SECTION
STA. 375+22 TO STA. 377+42



PROPOSED TYPICAL SECTION
STA. 366+48 TO STA. 369+48
STA. 372+84 TO STA. 375+22



PROPOSED TYPICAL SECTION
STA. 375+22 TO STA. 377+42

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2"
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"
- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2"
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2"±
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2" - 1 3/4"

NOTE:
THE EXACT LOCATION OF
CURB AND GUTTER AND
MEDIAN REPAIRS WILL BE
DETERMINED BY THE R.E. IN THE FIELD

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

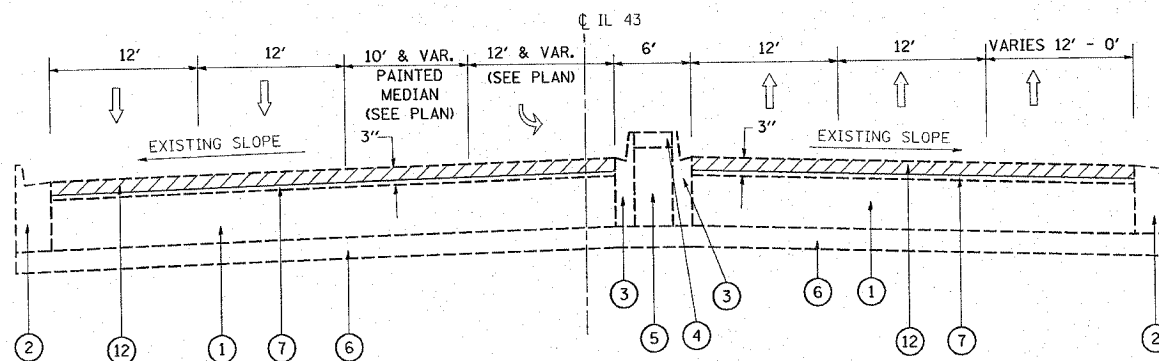
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EXISTING & PROPOSED
TYPICAL SECTIONS

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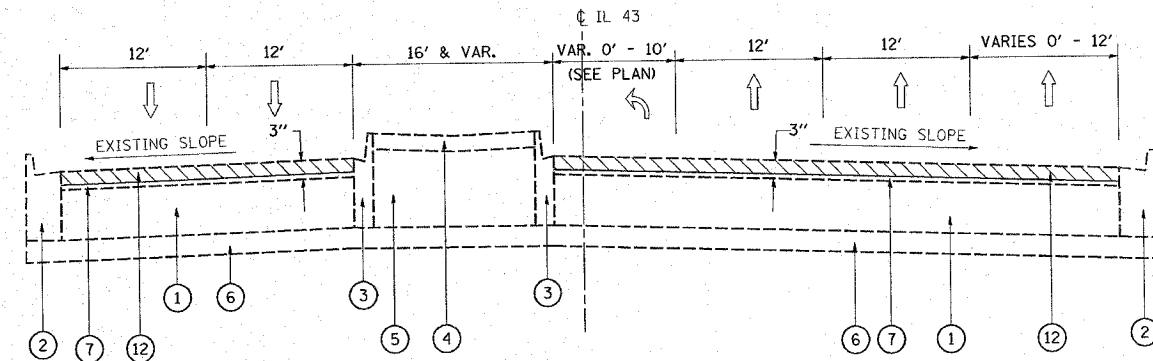
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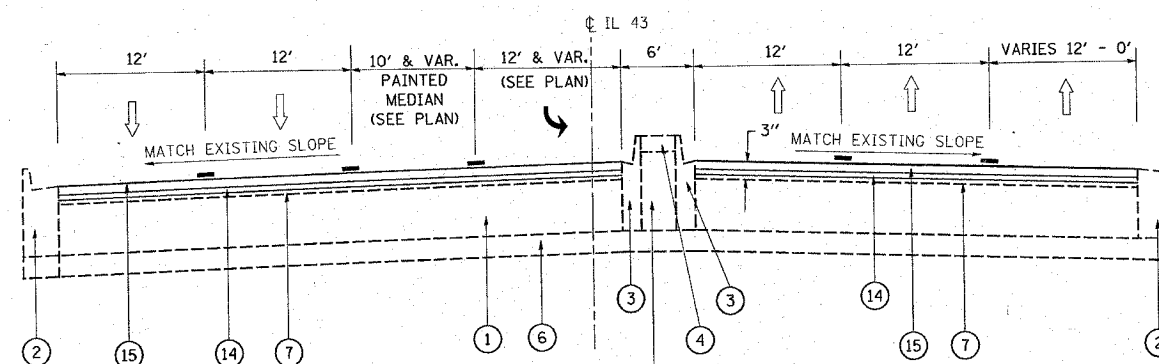
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1214 & 3127-D) RS-1				



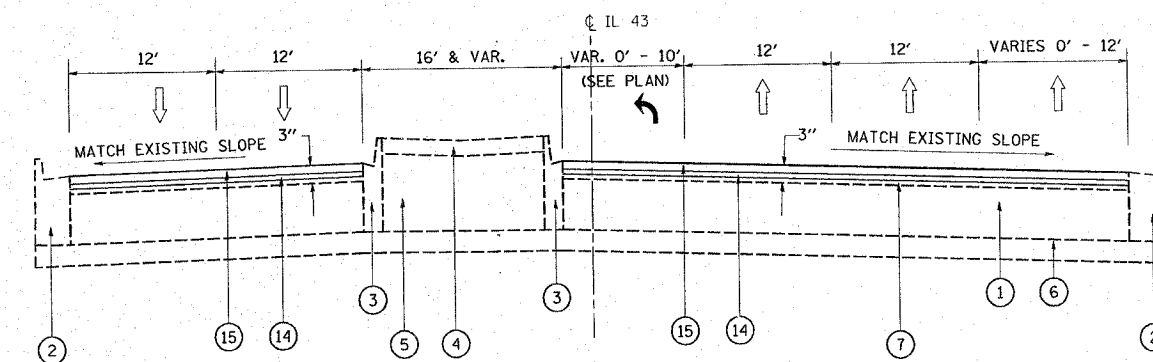
EXISTING TYPICAL SECTION
STA. 377+42 TO STA. 380+23



EXISTING TYPICAL SECTION
STA. 380+23 TO STA. 385+63



PROPOSED TYPICAL SECTION
STA. 377+42 TO STA. 380+23



PROPOSED TYPICAL SECTION
STA. 380+23 TO STA. 385+63

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2 "
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- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"
- ⑨A EXISTING CONCRETE MEDIAN
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- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2 "
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NOTE:
THE EXACT LOCATION OF
CURB AND GUTTER AND
MEDIAN REPAIRS WILL BE
DETERMINED BY THE R.E. IN THE FIELD

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RT. 43 (HARLEM AVE.)
EXISTING & PROPOSED
TYPICAL SECTIONS

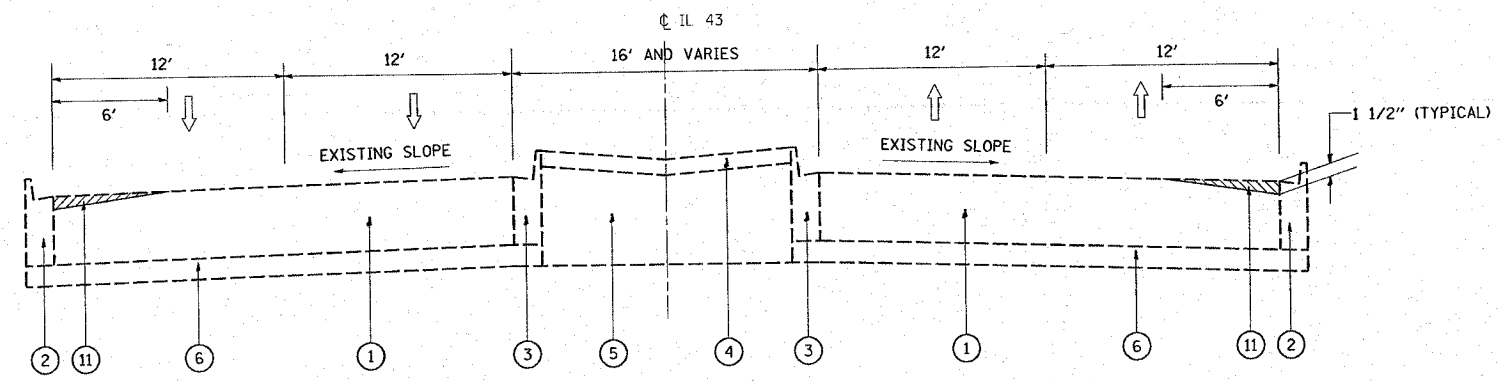
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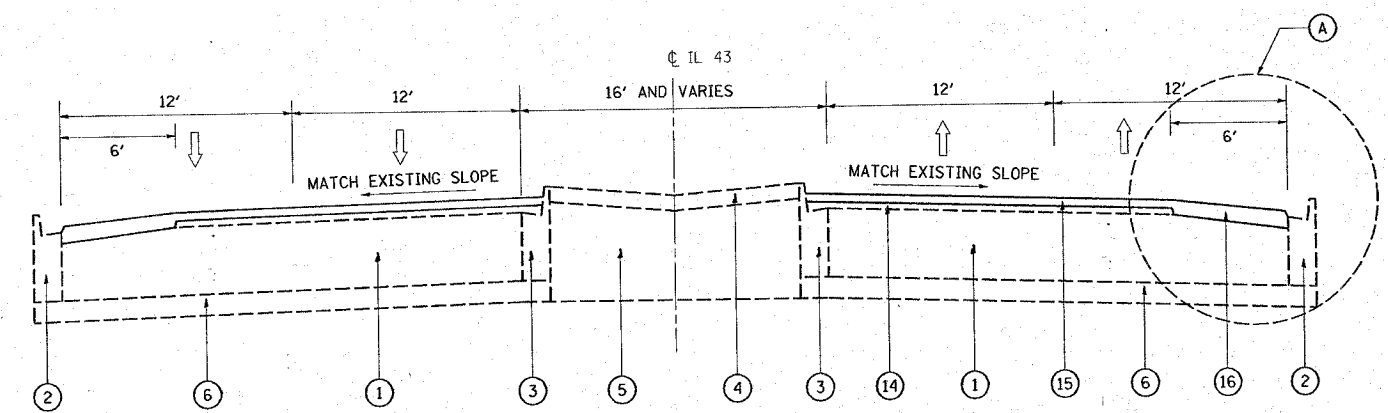
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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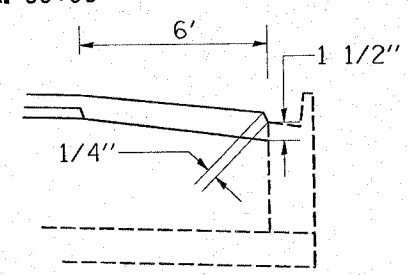


EXISTING TYPICAL SECTION
STA. 385+63 THRU STATION EQUATIONS 1 AND 2* TO STA. 80+00
STA. 174+00 TO STA. 178+17

* SEE STATION EQUATIONS 1 AND 2 ON PLAN



PROPOSED TYPICAL SECTION
STA. 385+63 THRU STATION EQUATIONS 1 AND 2* TO STA. 80+00
STA. 174+00 TO STA. 178+17



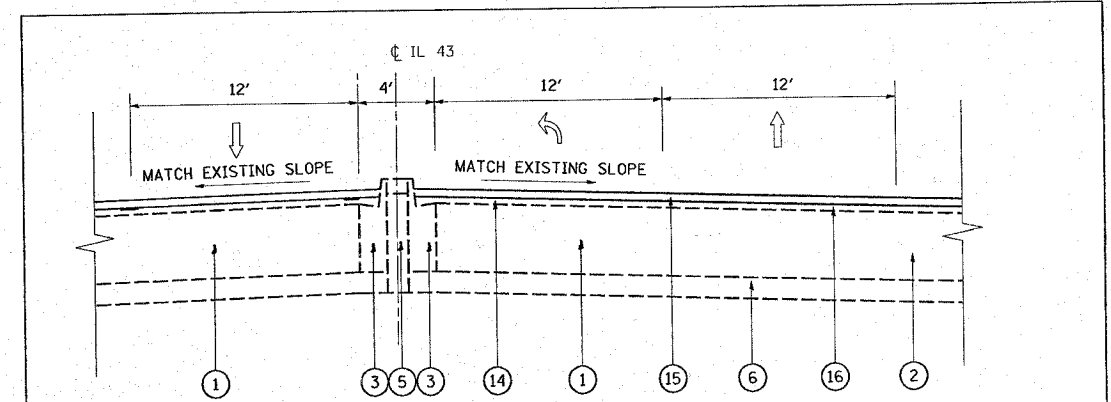
DETAIL A (TYPICAL)

LEGEND

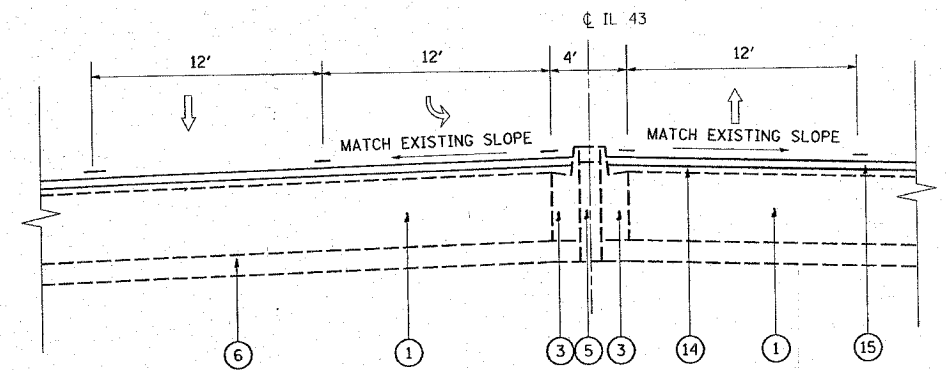
- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2 "
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"

LEGEND

- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2 "
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2"±
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑯ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2 " - 1 3/4"



NORTH BOUND



SOUTH BOUND

PROPOSED TYPICAL SECTION
LEFT TURN LANE DETAILS
STA. 385+63 THRU STATION EQUATIONS 1 AND 2* TO STA. 80+00
STA. 174+00 TO STA. 178+17

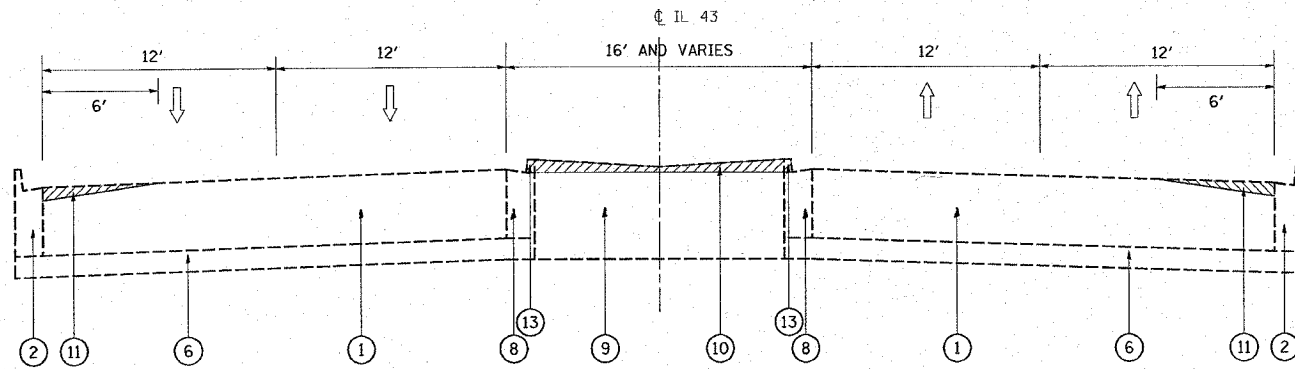
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REVISIONS	
NAME	DATE

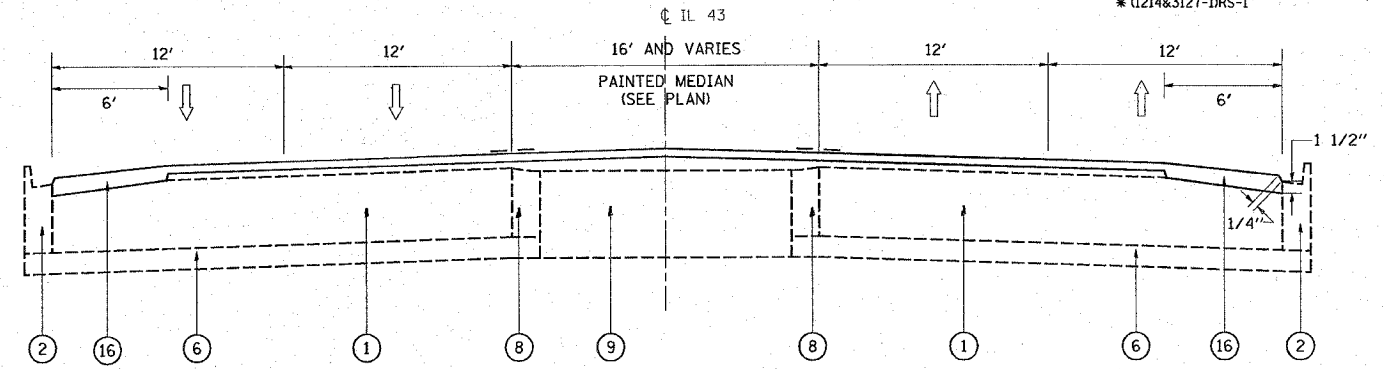
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RT. 43 (HARLEM AVE.)
 EXISTING & PROPOSED
 TYPICAL SECTIONS
 SCALE: VERT. NONE
 HORIZ. DATE
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

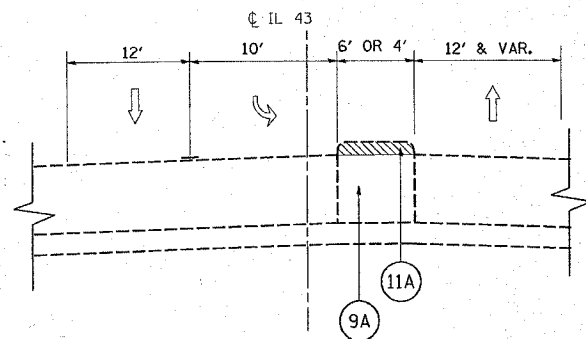
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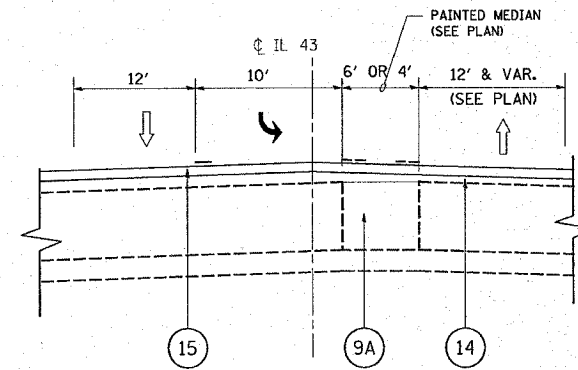
EXISTING TYPICAL SECTION
 STA. 80+00 TO STA. 126+00
 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50



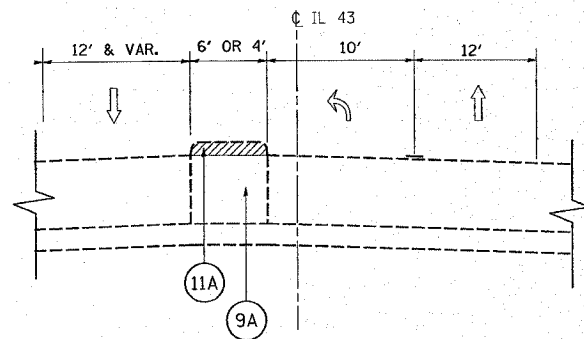
PROPOSED TYPICAL SECTION
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 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50



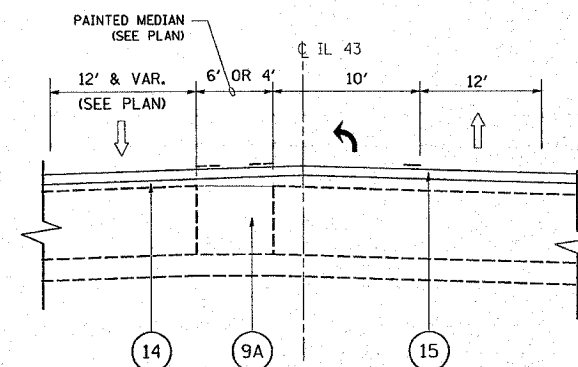
EXISTING PARTIAL TYPICAL SECTION AT LEFT TURN LANE (SOUTH BOUND)
 STA. 80+00 TO STA. 126+00
 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50



PROPOSED PARTIAL TYPICAL SECTION AT LEFT TURN LANE (SOUTHBOUND)
 STA. 80+00 TO STA. 126+00
 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50



EXISTING PARTIAL TYPICAL SECTION AT LEFT TURN LANE (NORTH BOUND)
 STA. 80+00 TO STA. 126+00
 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50



PROPOSED PARTIAL TYPICAL SECTION AT LEFT TURN LANE (NORTHBOUND)
 STA. 80+00 TO STA. 126+00
 STA. 140+00 TO STA. 159+50
 STA. 178+17 TO STA. 205+50
 STA. 220+00 TO STA. 239+50

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2 "
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"
- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2 "
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- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2" ±
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- ⑯ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2 " - 1 3/4"

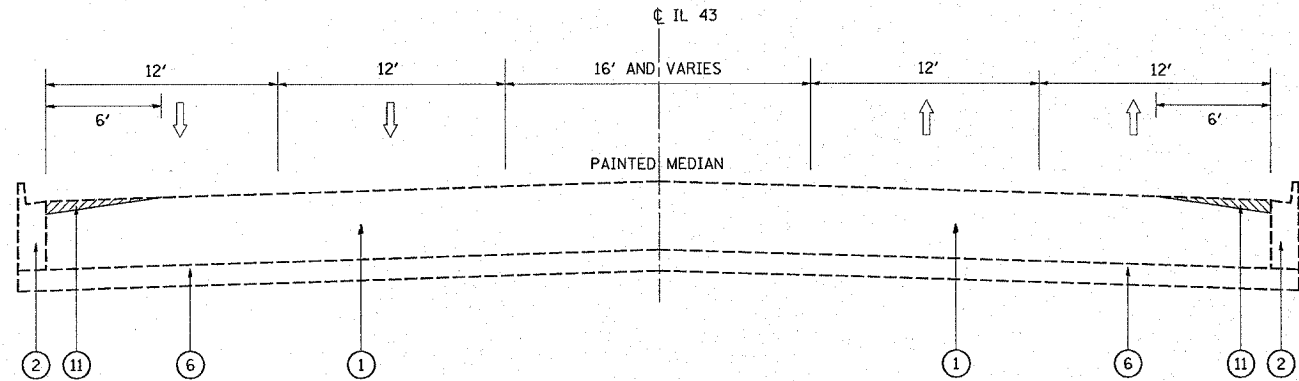
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 43 (HARLEM AVE.)
 EXISTING & PROPOSED
 TYPICAL SECTIONS
 SCALE: VERT. NONE
 HORIZ. DATE
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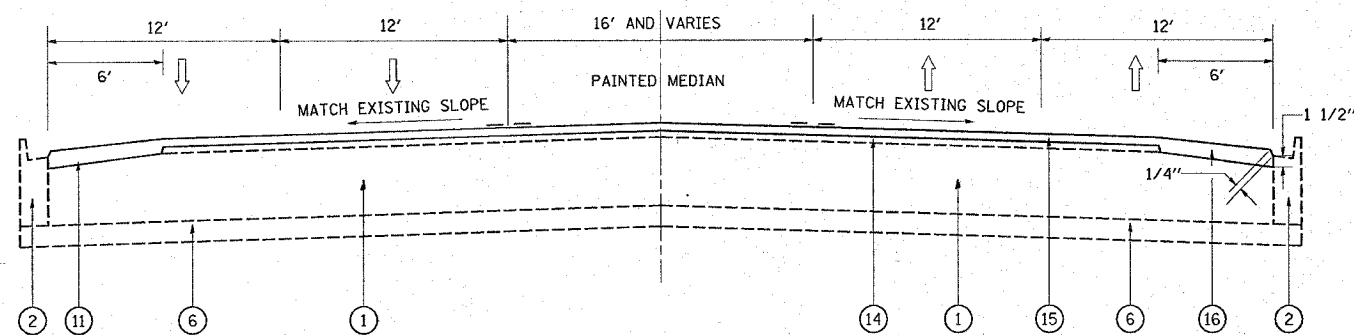
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

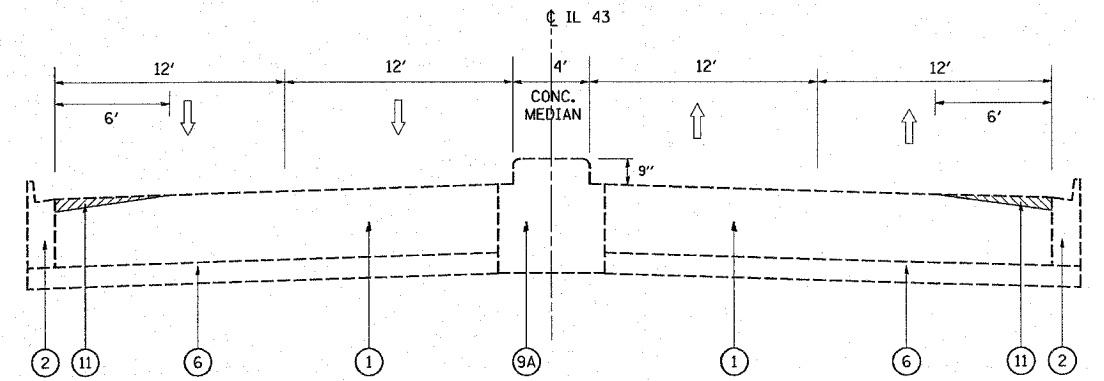
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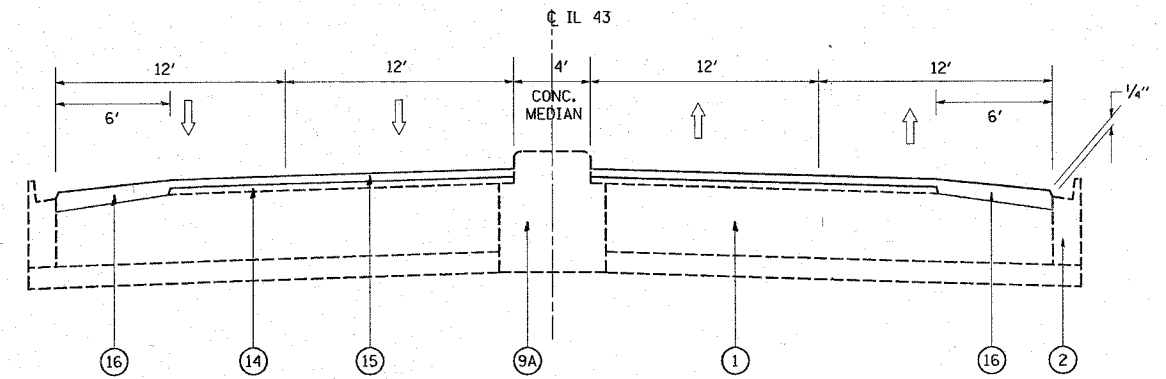
EXISTING TYPICAL SECTION
STA. 126+00 TO STA. 140+00



PROPOSED TYPICAL SECTION
STA. 126+00 TO STA. 140+00



EXISTING TYPICAL SECTION
STA. 170+22 TO STA. 174+00



PROPOSED TYPICAL SECTION
STA. 170+22 TO STA. 174+00

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2"
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"

LEGEND

- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2"
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
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- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑯ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2" - 1 3/4"

** HOT MIX ASPHALT SHOULDERS, 6"

MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	DESIGN AIR VOIDS	REMARKS
POLYMERIZED, HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	SBS/SBR PG 70-22	4% @ 90 GYR.	IL-9.5MM
LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR.	
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	PG 64-22	4% @ 70 GYR.	HMA, BINDER IL-19MM
CLASS "D" PATCHES	PG 64-22/58-22	4% @ 70 GYR.	HMA, BINDER IL-19MM
** HOT-MIX ASPHALT SHOULDERS, 6"	PG 64-22	4% @ 70 GYR.	BINDER IL-19MM

NOTE:

"THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN"

** FOR STABILIZATION AT TRAFFIC BARRIER TERMINAL TYPE I (SPECIAL). SEE DIST. DETAILS.

*** "WHEN RAP EXCEEDS 20%, THEN NEW ASPHALT BINDER IN THE MIX SHALL BE PG58-22"

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

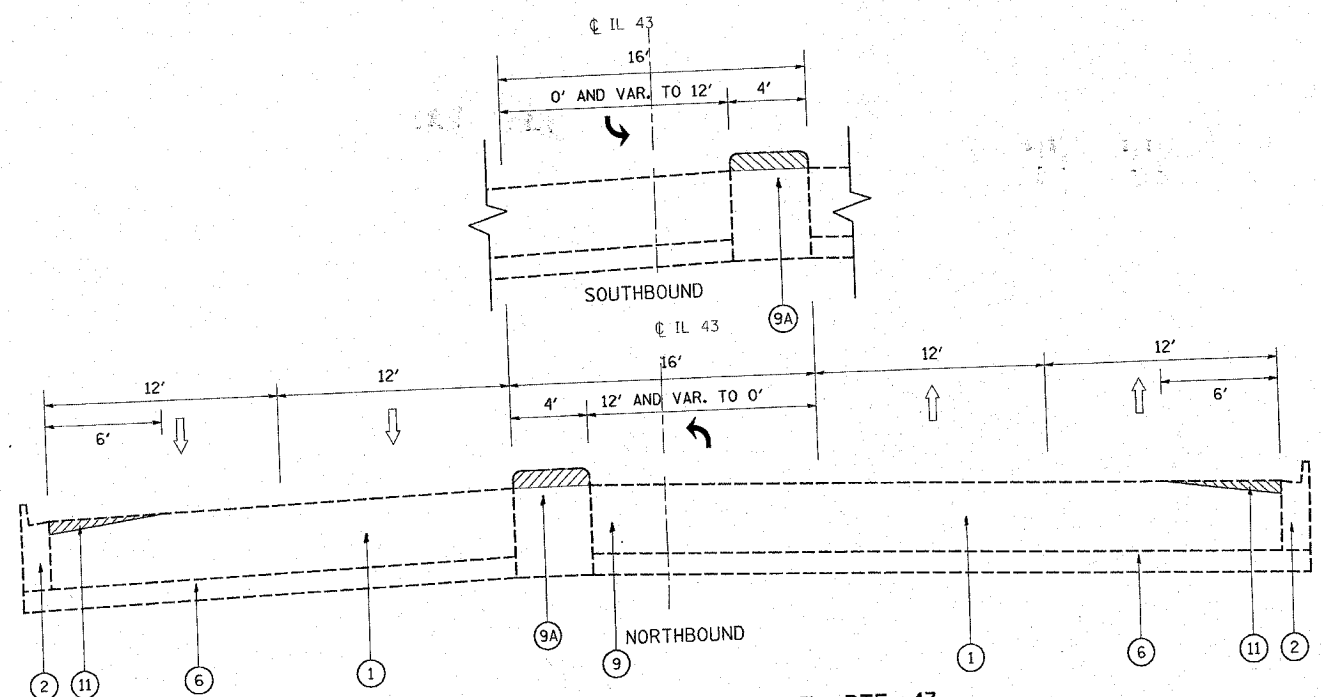
IL. RT. 43 (HARLEM AVE.)
EXISTING & PROPOSED
TYPICAL SECTIONS

SCALE: VERT. NONE
HORIZ. DATE

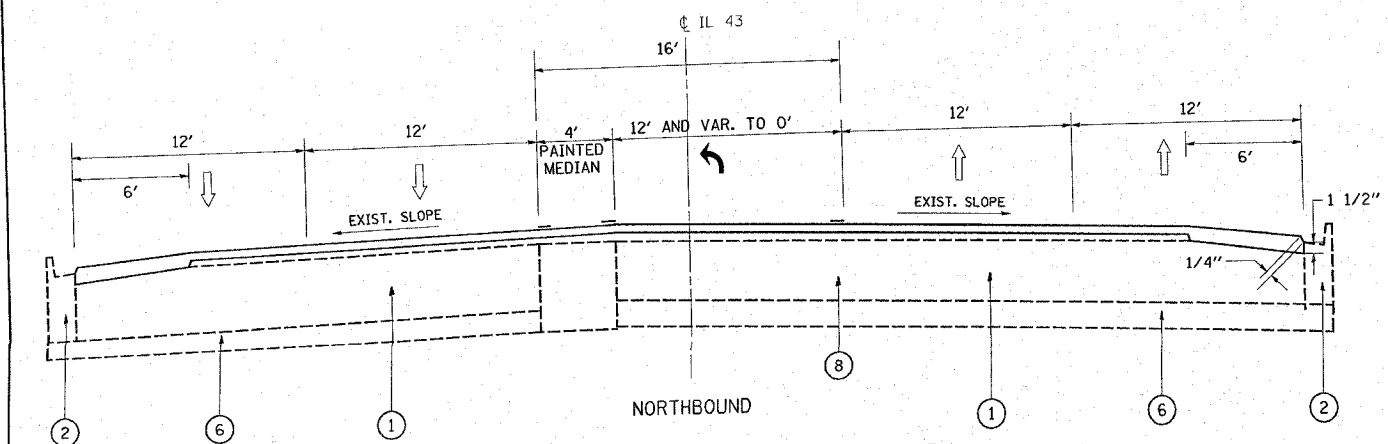
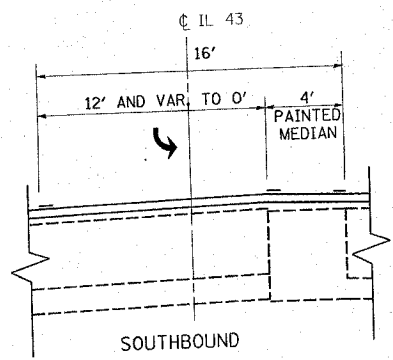
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CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

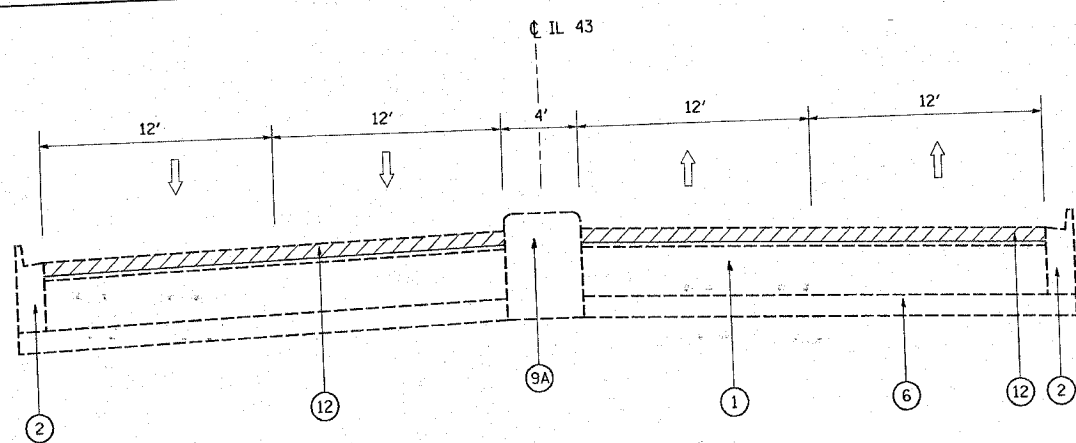
* (1214&3127-1RS-1)



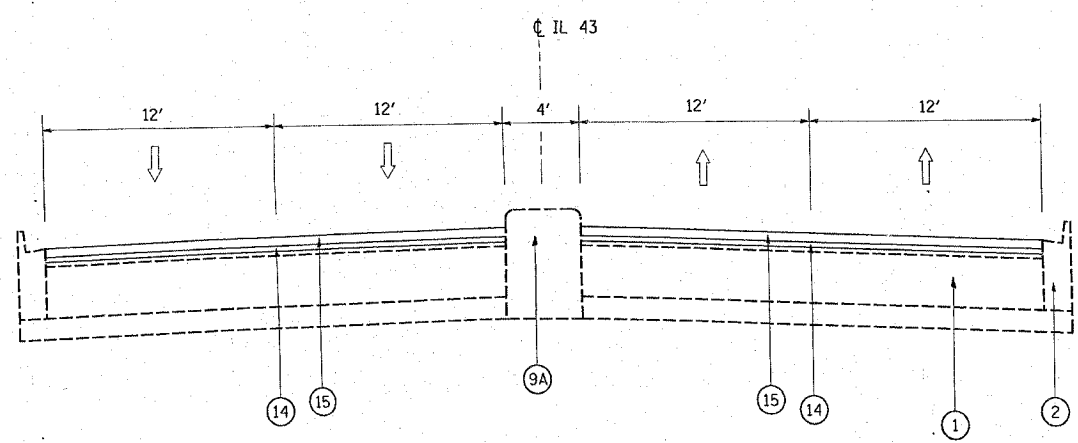
EXISTING TYPICAL SECTION IL. RTE. 43
STA. 205+50 TO STA. 220+00 (112TH ST. TO 110TH ST.)
STA. 239+50 TO STA. 242+92.6



PROPOSED TYPICAL SECTION IL. RTE. 43
STA. 205+50 TO STA. 220+00 (112TH ST. TO 110TH ST.)
STA. 239+50 TO STA. 242+92.6



EXISTING TYPICAL SECTION IL. RTE. 43
STA. 159+50 TO STA. 170+22 (LESS BRIDGE OMISSION)



PROPOSED TYPICAL SECTION IL. RTE. 43
STA. 159+50 TO STA. 170+22 (LESS BRIDGE OMISSION)

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2"
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"

LEGEND

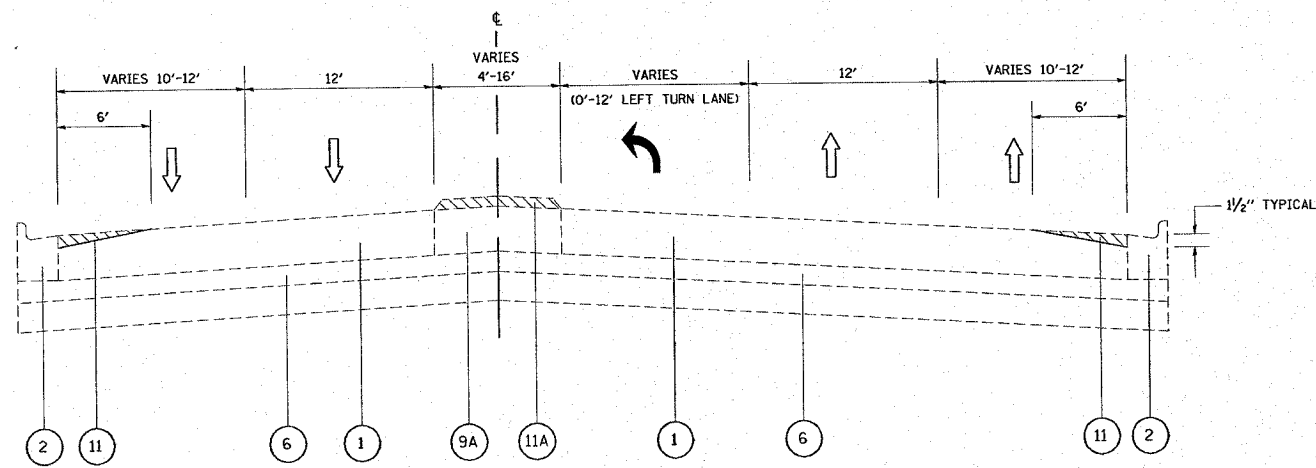
- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2"
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2"±
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑯ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2" - 1 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 43 (HARLEM AVE.)
EXISTING & PROPOSED
TYPICAL SECTIONS
SCALE: VERT. NONE
HORIZ. DATE
DRAWN BY
CHECKED BY

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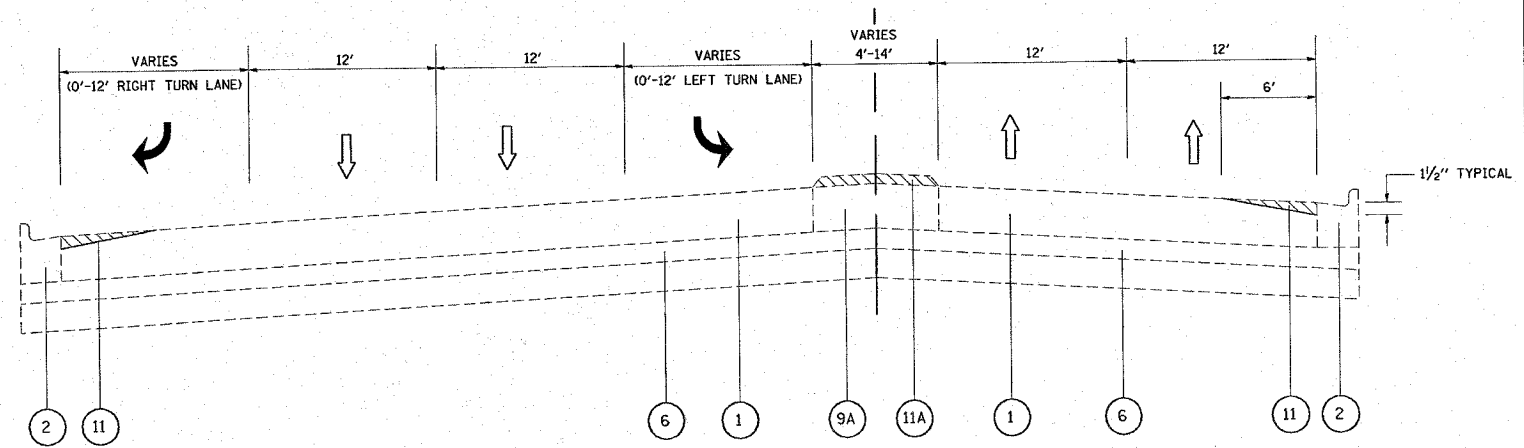
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	14
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
*(1214 & 3127)RS-1				
CONTRACT# 62343				



EXISTING TYPICAL SECTION
111th STREET AT HARLEM AVE.
STA. 32+48.8 TO STA. 40+00

LEGEND

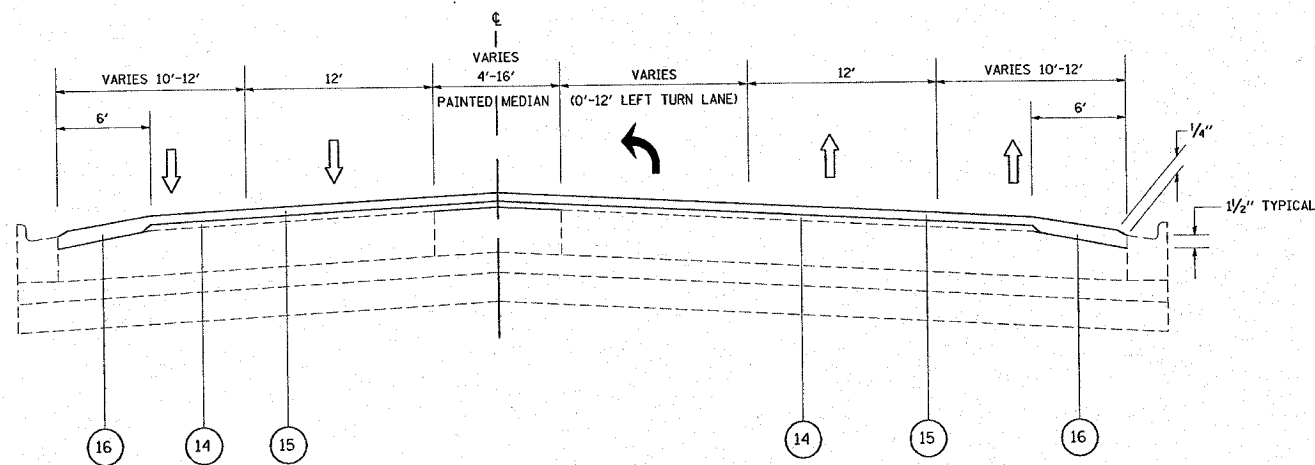
- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ④ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑤ EXISTING SAND FILL
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA SURFACE REMAINING AFTER MILLING, 1/2 "
- ⑧ EXISTING P.C. CONCRETE MEDIAN, TYPE M-2.12
- ⑨ EXISTING STABILIZED MEDIAN SURFACE, 12"



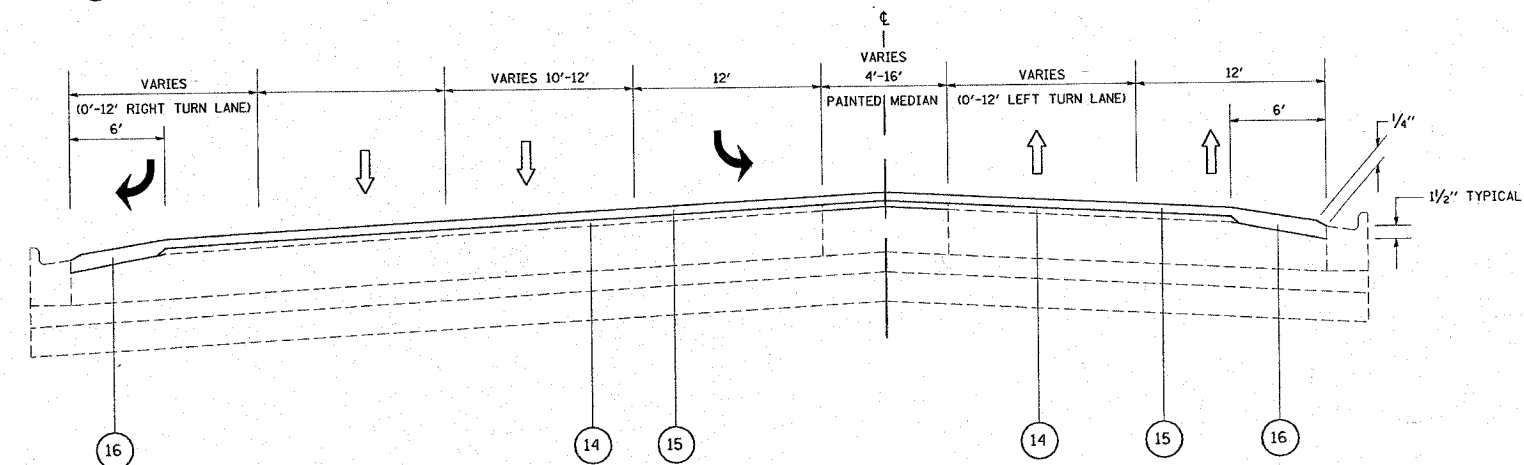
EXISTING TYPICAL SECTION
111th STREET AT HARLEM AVE.
STA. 40+88 TO STA. 43+84.6

LEGEND

- ⑨A EXISTING CONCRETE MEDIAN
- ⑩ PROPOSED P.C.C. HMA SURFACE REMOVAL, 2"± (MEDIAN SURFACE OF M-2.12)
- ⑪ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH) 0" - 1 1/2 "
- ⑪A PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROPOSED CURB CUT, 2"±
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"
- ⑮ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, (VARIABLE DEPTH) 2 1/2 " - 1 3/4"



PROPOSED TYPICAL SECTION
111th STREET AT HARLEM AVE.
STA. 32+48.8 TO STA. 40+00



PROPOSED TYPICAL SECTION
111th STREET AT HARLEM AVE.
STA. 40+88 TO STA. 43+84.6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

111th STREET
AT
IL-43 (HARLEM AVE.)
TYPICAL SECTIONS

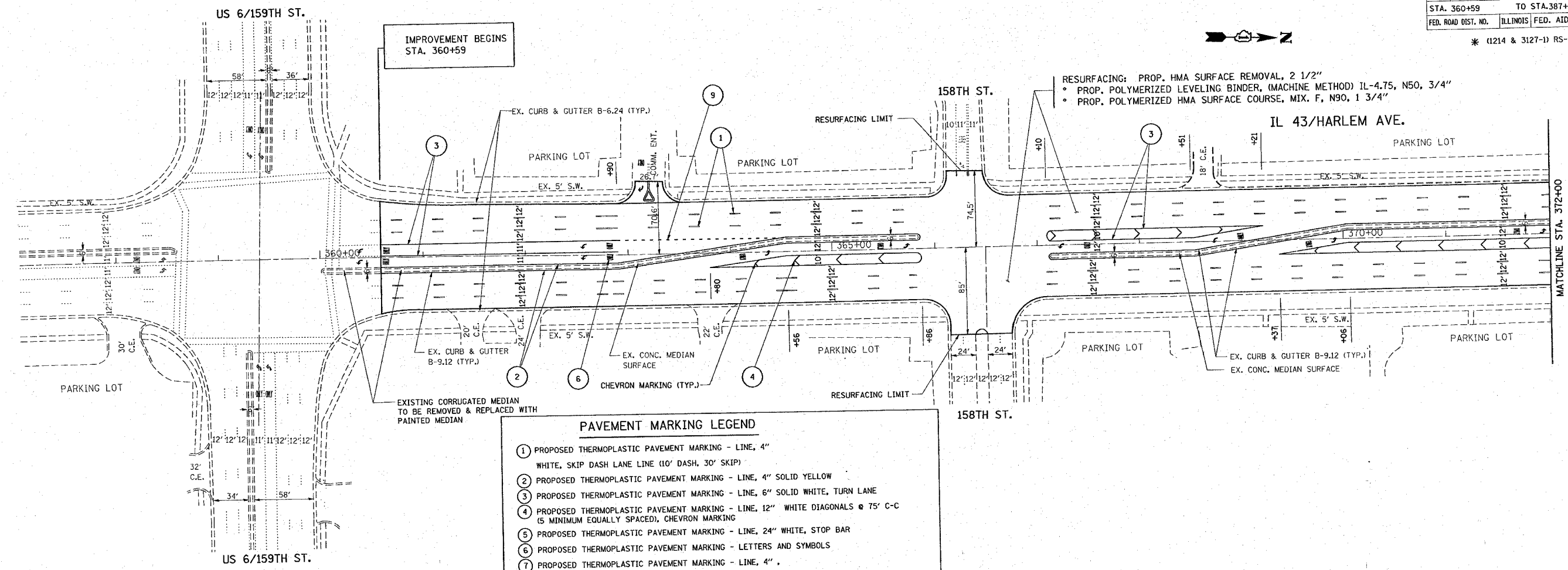
SCALE NONE
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	15
STA. 360+59		TO STA. 387+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

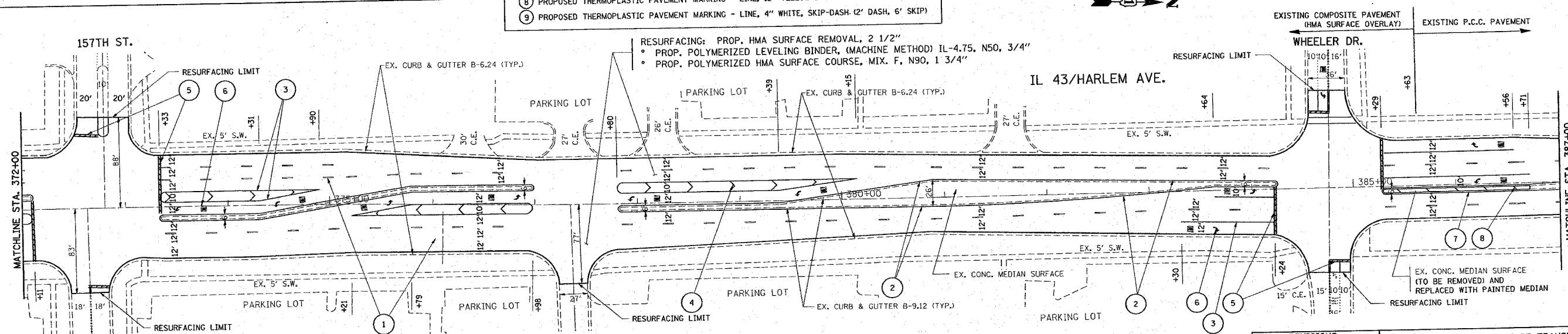
* (1214 & 3127-1) RS-1

*REF-plan01
*REF-plan02



PAVEMENT MARKING LEGEND

- 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- 2 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- 3 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- 4 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C (5 MINIMUM EQUALLY SPACED), CHEVRON MARKING
- 5 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- 6 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- 7 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- 8 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C
- 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP-DASH (2' DASH, 6' SKIP)



RESURFACING: PROP. HMA SURFACE REMOVAL, 2 1/2"
 • PROP. POLYMERIZED LEVELING BINDER, (MACHINE METHOD) IL-4.75, N50, 3/4"
 • PROP. POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 43 (HARLEM AV.)
 EXISTING AND PROPOSED
 ROADWAY AND PAVEMENT MARKING PLAN
 U.S. 6 TO IL. RTE. 7

SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'
 DATE 12/5/2007
 DRAWN BY
 CHECKED BY

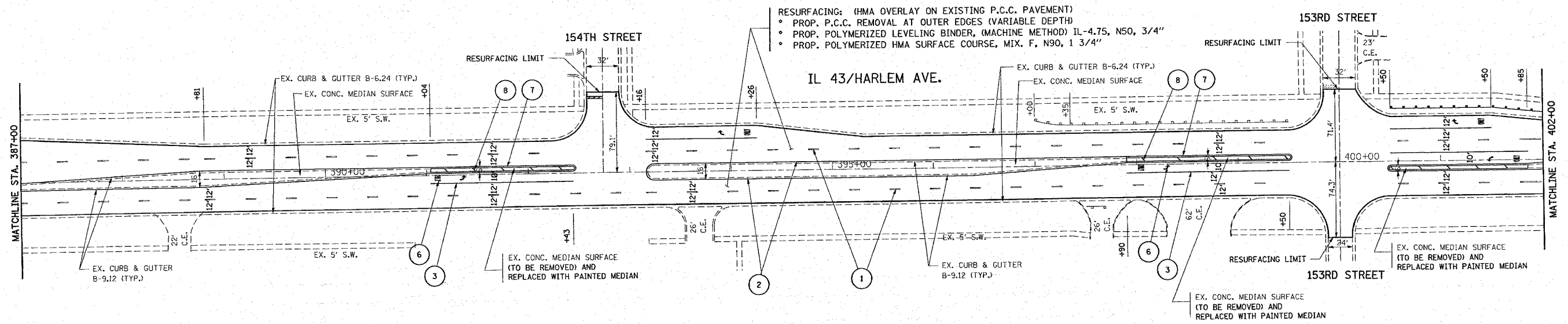
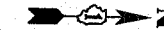
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*REF-plan03
*REF-plan04

CONTRACT NO. 62343

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	16
STA. 387+00		TO STA. 417+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

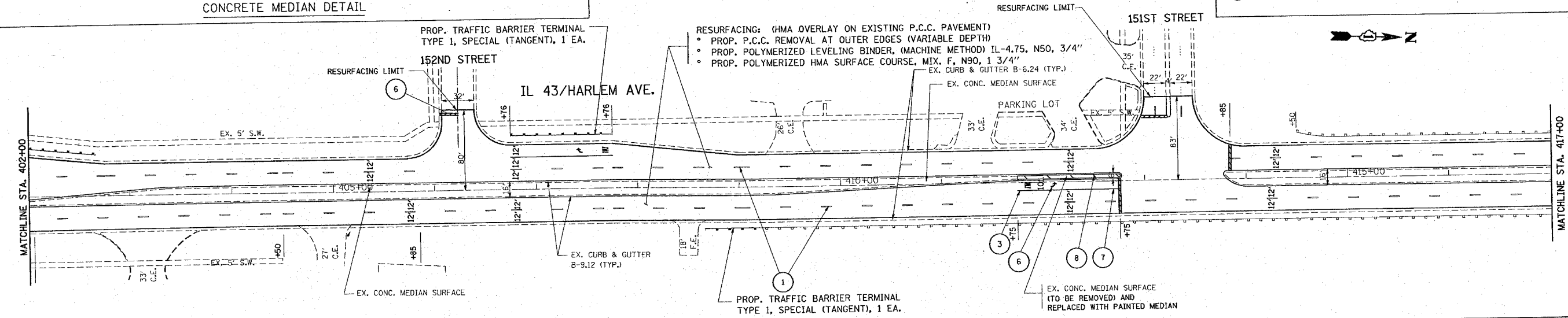
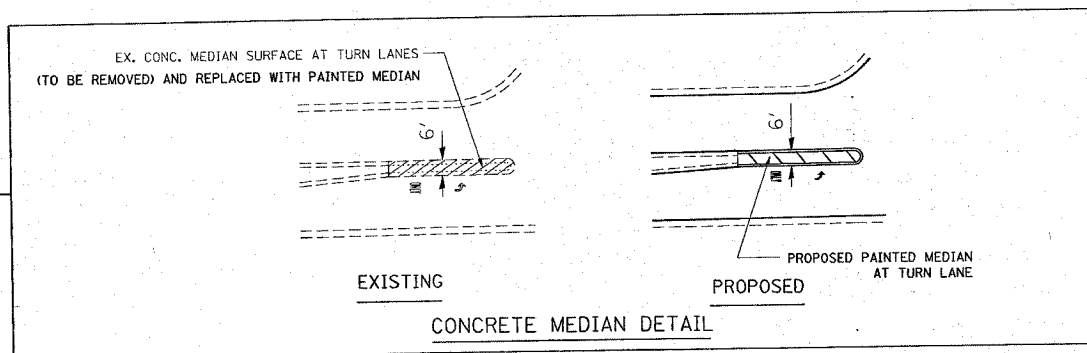
* (1214 & 3127-1) RS-1



* AS PER DETAILS FOR TBT TYPE 1, SPECIAL 50' EXISTING GUARD RAIL REMOVE & REPLACE (TYP.) LOCATIONS EXISTING AS SHOWN ON THE PLAN

PAVEMENT MARKING LEGEND

- ① PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- ② PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
- ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 43 (HARLEM AV.)
 EXISTING AND PROPOSED
 ROADWAY AND PAVEMENT MARKING PLAN
 U.S. 6 TO IL. RTE. 7
 SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'
 DATE 12/5/2007
 DRAWN BY
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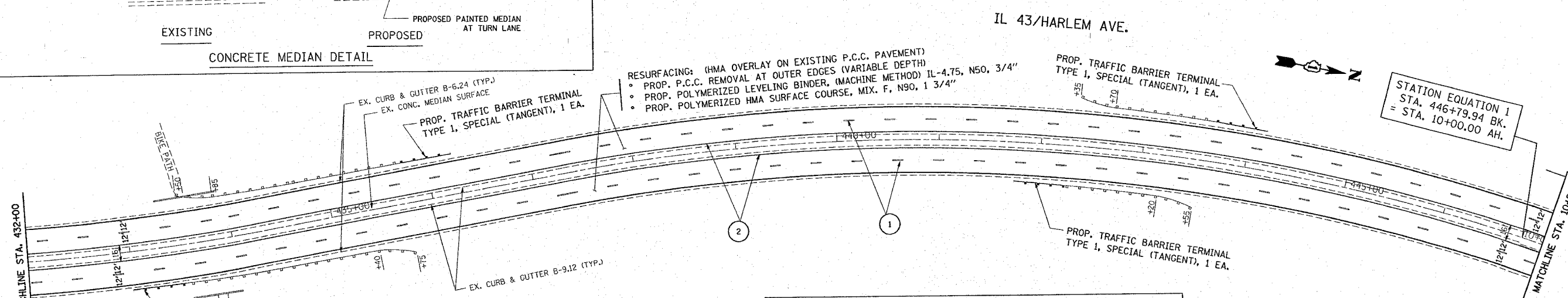
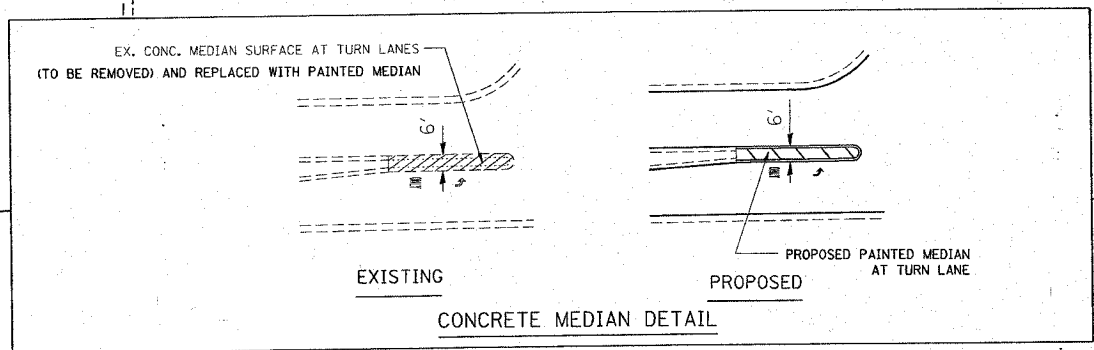
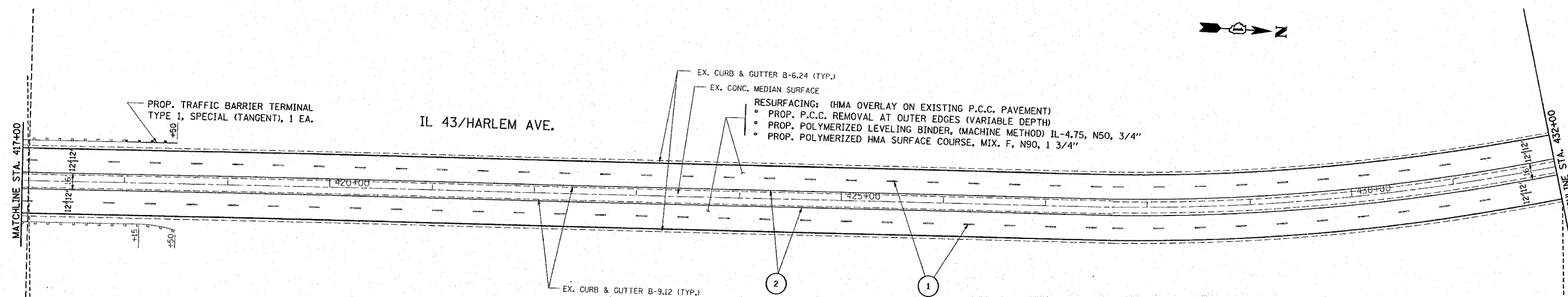
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*REF-plan06

CONTRACT NO. 62343

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	17
STA. 417+00		TO STA. 10+20		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-1) RS-1



PAVEMENT MARKING LEGEND

- ① PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- ② PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
- ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C

* AS PER DETAILS FOR TBT TYPE 1, SPECIAL 50' EXISTING GUARD RAIL REMOVE & REPLACE (TYP.) LOCATIONS EXISTING AS SHOWN ON THE PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 43 (HARLEM AV.)
EXISTING AND PROPOSED
ROADWAY AND PAVEMENT MARKING PLAN
U.S. 6 TO IL. RTE. 7

SCALE: VERT. 1" = 50'
DATE 12/5/2007

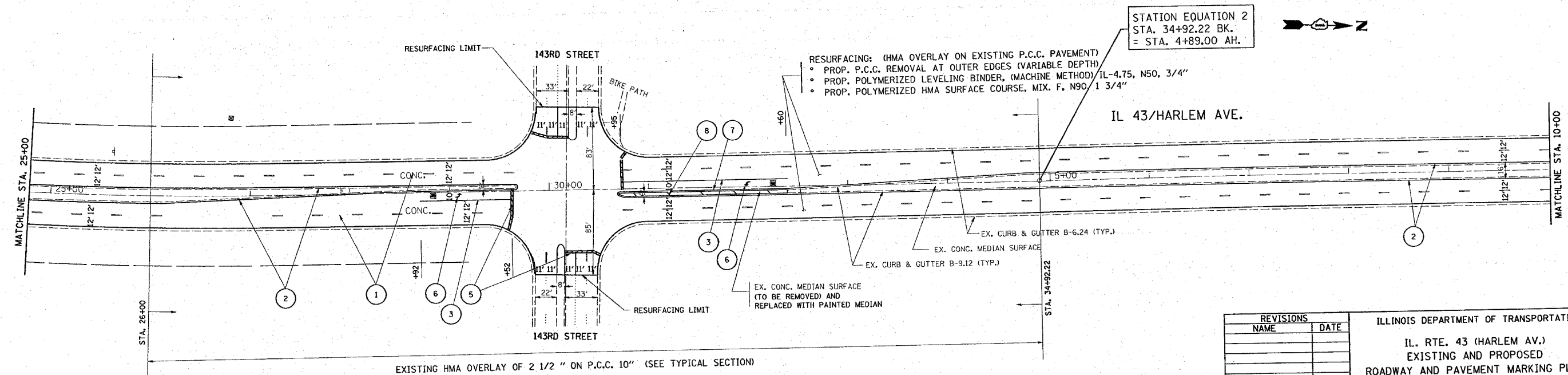
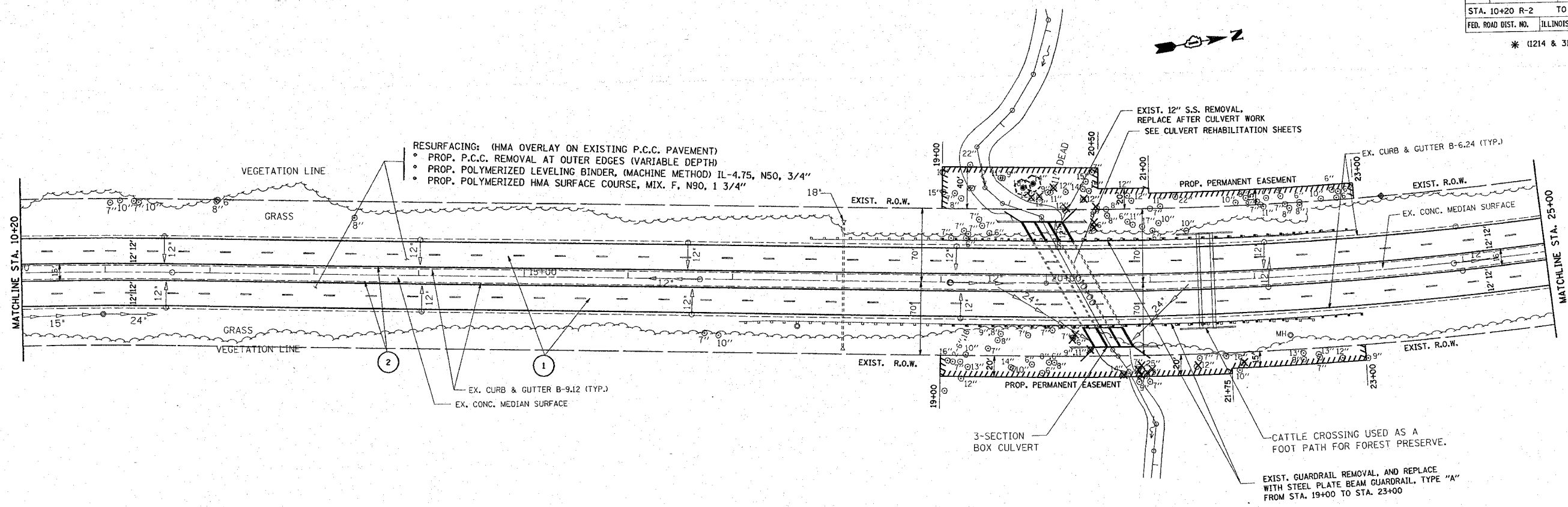
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	78
STA. 10+20 R-2		TO STA. 10+00 R-3		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-1) R5-1

*REF-plan01
*REF-plan08



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 43 (HARLEM AV.)

EXISTING AND PROPOSED

ROADWAY AND PAVEMENT MARKING PLAN

U.S. 6 TO IL. RTE. 7

SCALE: VERT. 1" = 50'
HORIZ. 1" = 50'

DATE 12/13/2007

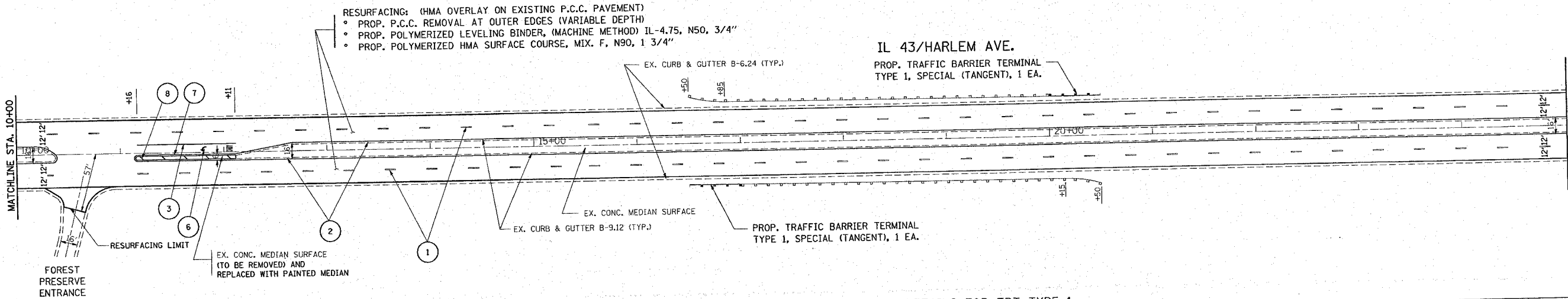
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
348	*	COOK	86	19
STA. 10+00		TO STA. 40+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-1) RS-1

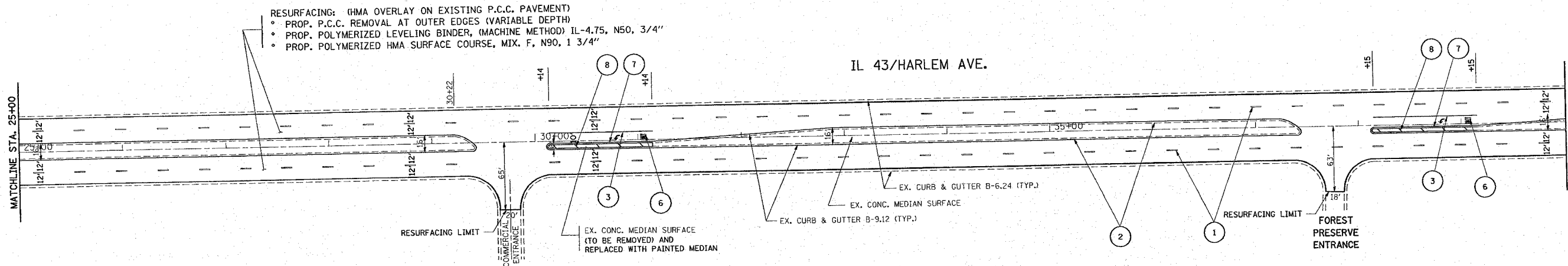
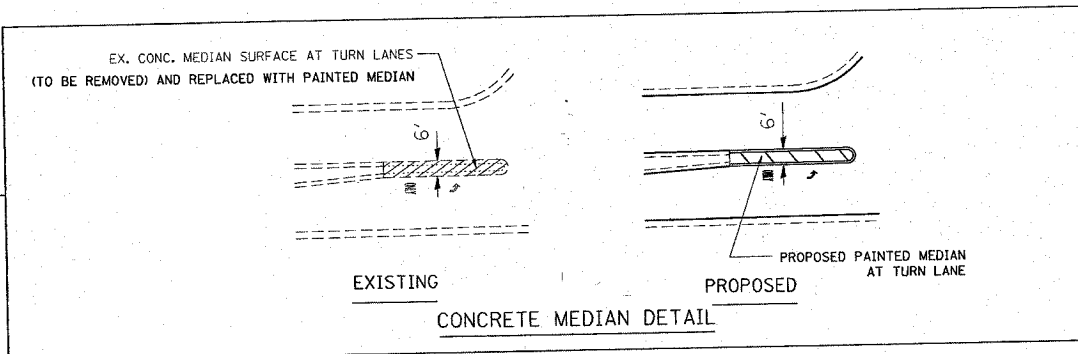
*REF-plan09
*REF-plan10



* AS PER DETAILS FOR TBT TYPE 1, SPECIAL 50' EXISTING GUARD RAIL REMOVE & REPLACE (TYP.) LOCATIONS EXISTING AS SHOWN ON THE PLAN

PAVEMENT MARKING LEGEND

- ① PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- ② PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
- ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C



REVISIONS	
NAME	DATE

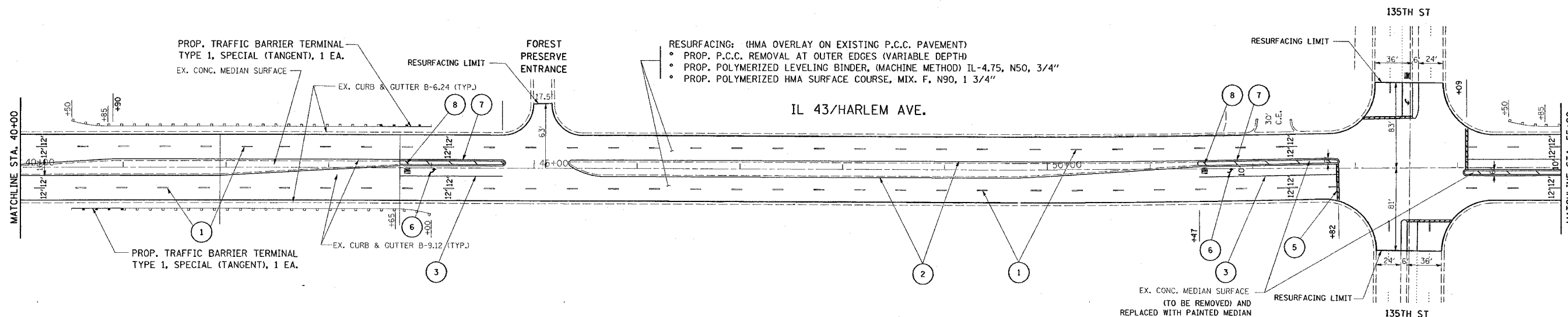
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 43 (HARLEM AV.)
EXISTING AND PROPOSED
ROADWAY AND PAVEMENT MARKING PLAN
U.S. 6 TO IL. RTE. 7
SCALE: VERT. 1" = 50'
HORIZ. DATE 12/5/2007
DRAWN BY
CHECKED BY

*REF-plan1
*REF-plan2

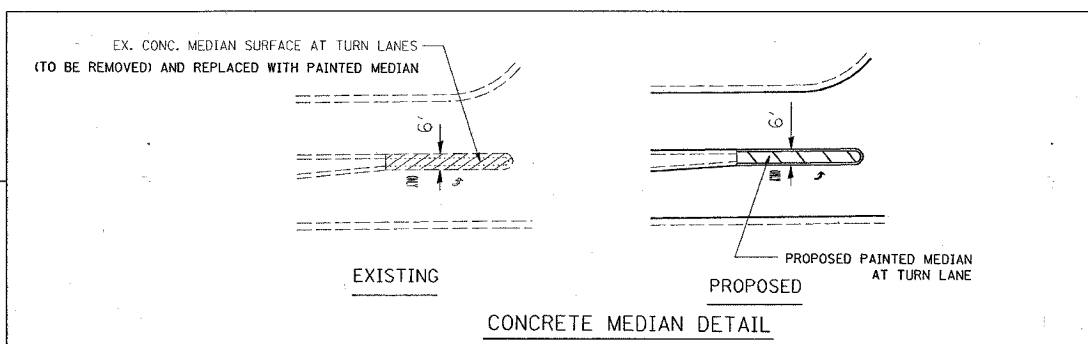
CONTRACT NO. 62343

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	20
STA. 40+00		TO STA. 70+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-D) RS-1

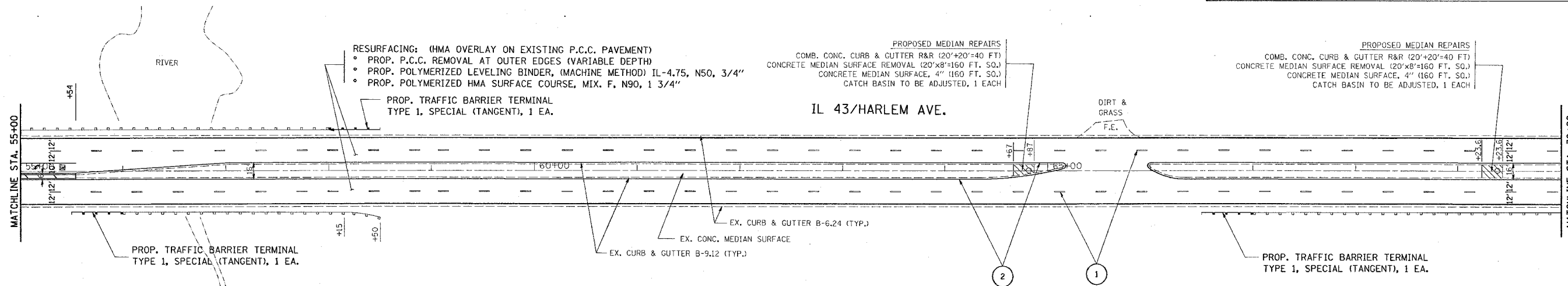


RESURFACING: (HMA OVERLAY ON EXISTING P.C.C. PAVEMENT)
 • PROP. P.C.C. REMOVAL AT OUTER EDGES (VARIABLE DEPTH)
 • PROP. POLYMERIZED LEVELING BINDER, (MACHINE METHOD) IL-4.75, N50, 3/4"
 • PROP. POLYMERIZED HMA SURFACE COURSE, MIX. F. N90, 1 3/4"



* AS PER DETAILS FOR TBT TYPE 1, SPECIAL 50' EXISTING GUARD RAIL REMOVE & REPLACE (TYP.) LOCATIONS EXISTING AS SHOWN ON THE PLAN

PAVEMENT MARKING LEGEND	
①	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
②	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
③	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
④	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
⑤	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
⑥	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
⑦	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
⑧	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C



RESURFACING: (HMA OVERLAY ON EXISTING P.C.C. PAVEMENT)
 • PROP. P.C.C. REMOVAL AT OUTER EDGES (VARIABLE DEPTH)
 • PROP. POLYMERIZED LEVELING BINDER, (MACHINE METHOD) IL-4.75, N50, 3/4"
 • PROP. POLYMERIZED HMA SURFACE COURSE, MIX. F. N90, 1 3/4"

PROPOSED MEDIAN REPAIRS
 COMB. CONC. CURB & GUTTER R&R (20'+20'=40 FT)
 CONCRETE MEDIAN SURFACE REMOVAL (20'x8'=160 FT. SQ.)
 CONCRETE MEDIAN SURFACE, 4" (160 FT. SQ.)
 CATCH BASIN TO BE ADJUSTED, 1 EACH

PROPOSED MEDIAN REPAIRS
 COMB. CONC. CURB & GUTTER R&R (20'+20'=40 FT)
 CONCRETE MEDIAN SURFACE REMOVAL (20'x8'=160 FT. SQ.)
 CONCRETE MEDIAN SURFACE, 4" (160 FT. SQ.)
 CATCH BASIN TO BE ADJUSTED, 1 EACH

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 USER NAME = drvolocan

2 REV. 02-26-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 43 (HARLEM AV.)
 EXISTING AND PROPOSED
 ROADWAY AND PAVEMENT MARKING PLAN
 U.S. 6 TO IL. RTE. 7

SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'
 DATE 2/28/2008

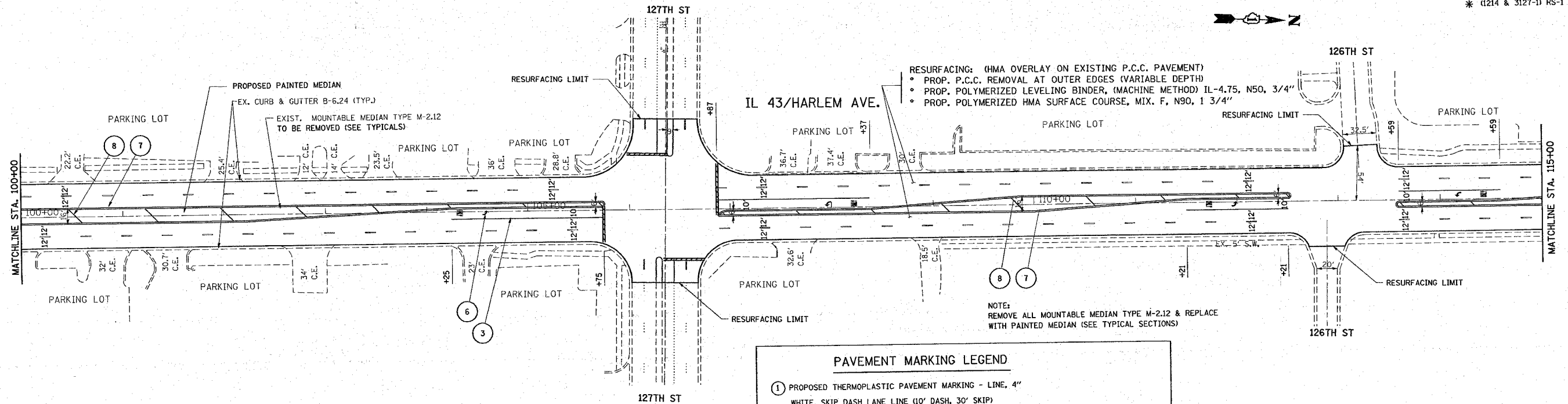
DRAWN BY
 CHECKED BY

*REF-plan15
*REF-plan16

CONTRACT NO. 62343

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	22
STA. 100+00		TO STA. 130+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-1) RS-1

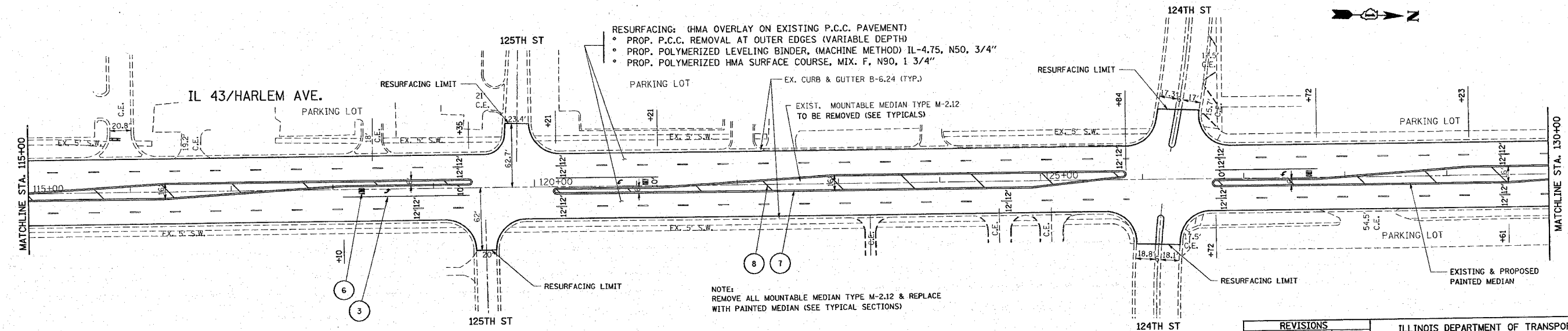


RESURFACING: (HMA OVERLAY ON EXISTING P.C.C. PAVEMENT)
 • PROP. P.C.C. REMOVAL AT OUTER EDGES (VARIABLE DEPTH)
 • PROP. POLYMERIZED LEVELING BINDER, (MACHINE METHOD) IL-4.75, N50, 3/4"
 • PROP. POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"

NOTE:
REMOVE ALL MOUNTABLE MEDIAN TYPE M-2.12 & REPLACE WITH PAINTED MEDIAN (SEE TYPICAL SECTIONS)

PAVEMENT MARKING LEGEND

- ① PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- ② PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
- ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C



RESURFACING: (HMA OVERLAY ON EXISTING P.C.C. PAVEMENT)
 • PROP. P.C.C. REMOVAL AT OUTER EDGES (VARIABLE DEPTH)
 • PROP. POLYMERIZED LEVELING BINDER, (MACHINE METHOD) IL-4.75, N50, 3/4"
 • PROP. POLYMERIZED HMA SURFACE COURSE, MIX. F, N90, 1 3/4"

NOTE:
REMOVE ALL MOUNTABLE MEDIAN TYPE M-2.12 & REPLACE WITH PAINTED MEDIAN (SEE TYPICAL SECTIONS)

REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 43 (HARLEM AV.)
 EXISTING AND PROPOSED
 ROADWAY AND PAVEMENT MARKING PLAN
 U.S. 6 TO IL. RTE. 7

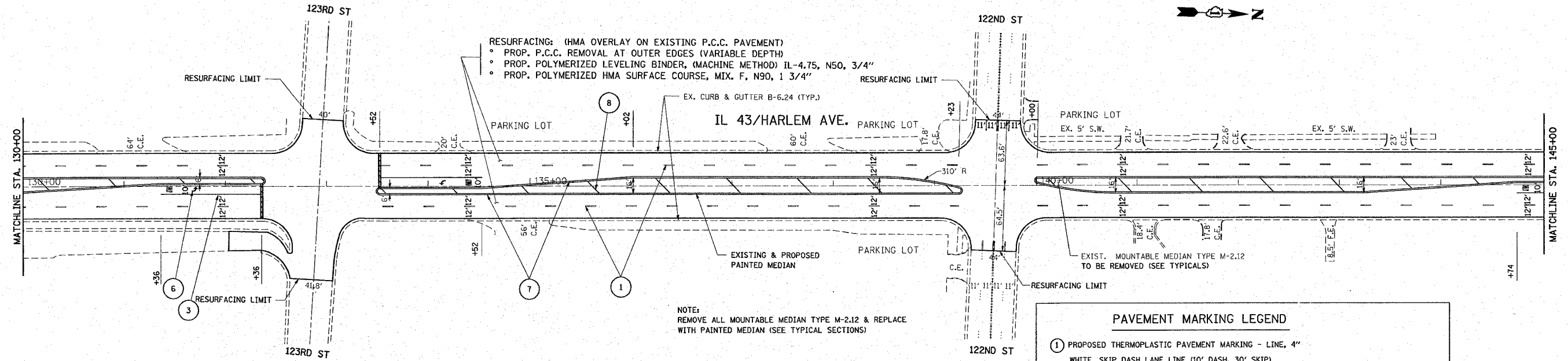
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 DATE 12/5/2007
 DRAWN BY
 CHECKED BY

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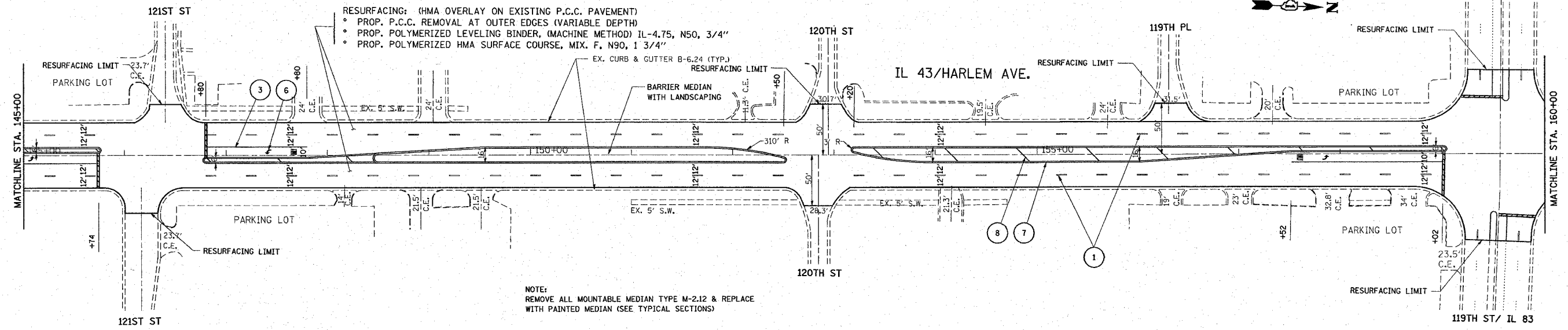
*REF-plan7
*REF-plan8

CONTRACT NO. 62343			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
348	*	COOK	86
STA. 130+00		TO STA. 160+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

* (1214 & 3127-1) RS-1



PAVEMENT MARKING LEGEND	
①	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
②	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
③	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
④	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
⑤	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
⑥	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
⑦	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
⑧	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 43 (HARLEM AV.)
EXISTING AND PROPOSED
ROADWAY AND PAVEMENT MARKING PLAN
U.S. 6 TO IL. RTE. 7

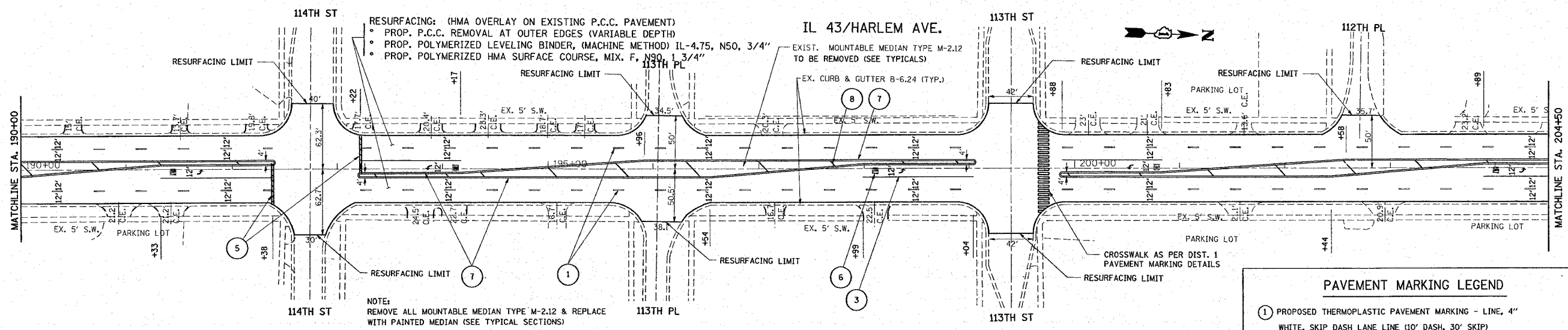
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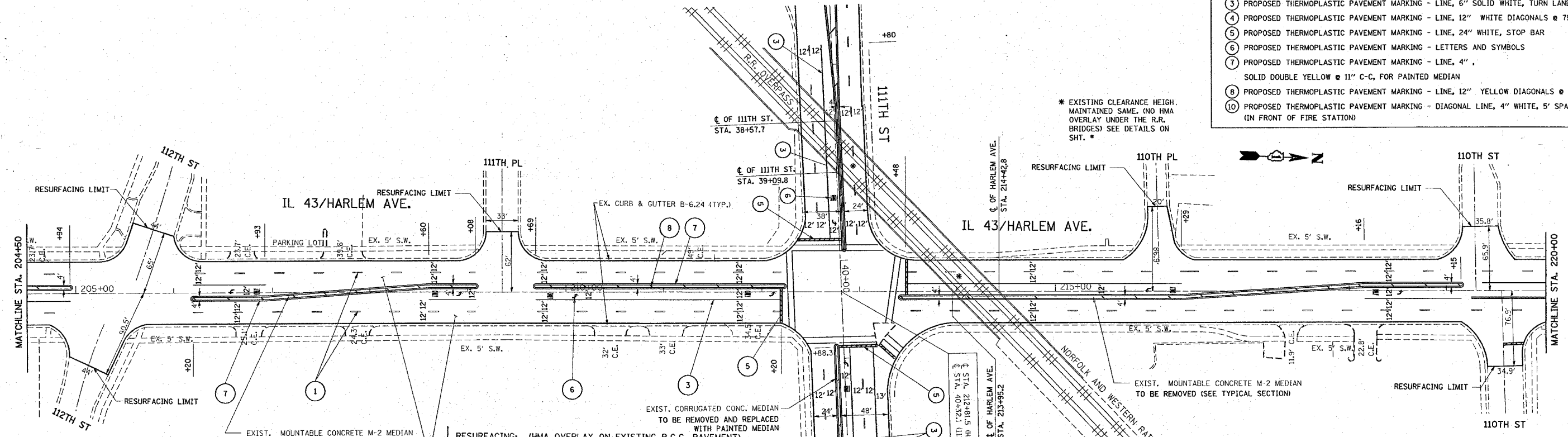
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CONTRACT NO. 62343				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	25
STA. 190+00		TO STA. 220+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1214 & 3127-1) R5-1



PAVEMENT MARKING LEGEND	
①	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
②	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
③	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
④	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
⑤	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
⑥	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
⑦	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
⑧	PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C
⑩	PROPOSED THERMOPLASTIC PAVEMENT MARKING - DIAGONAL LINE, 4" WHITE, 5' SPACING (IN FRONT OF FIRE STATION)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 43 (HARLEM AV.)
 EXISTING AND PROPOSED
 ROADWAY AND PAVEMENT MARKING PLAN
 U.S. 6 TO IL. RTE. 7

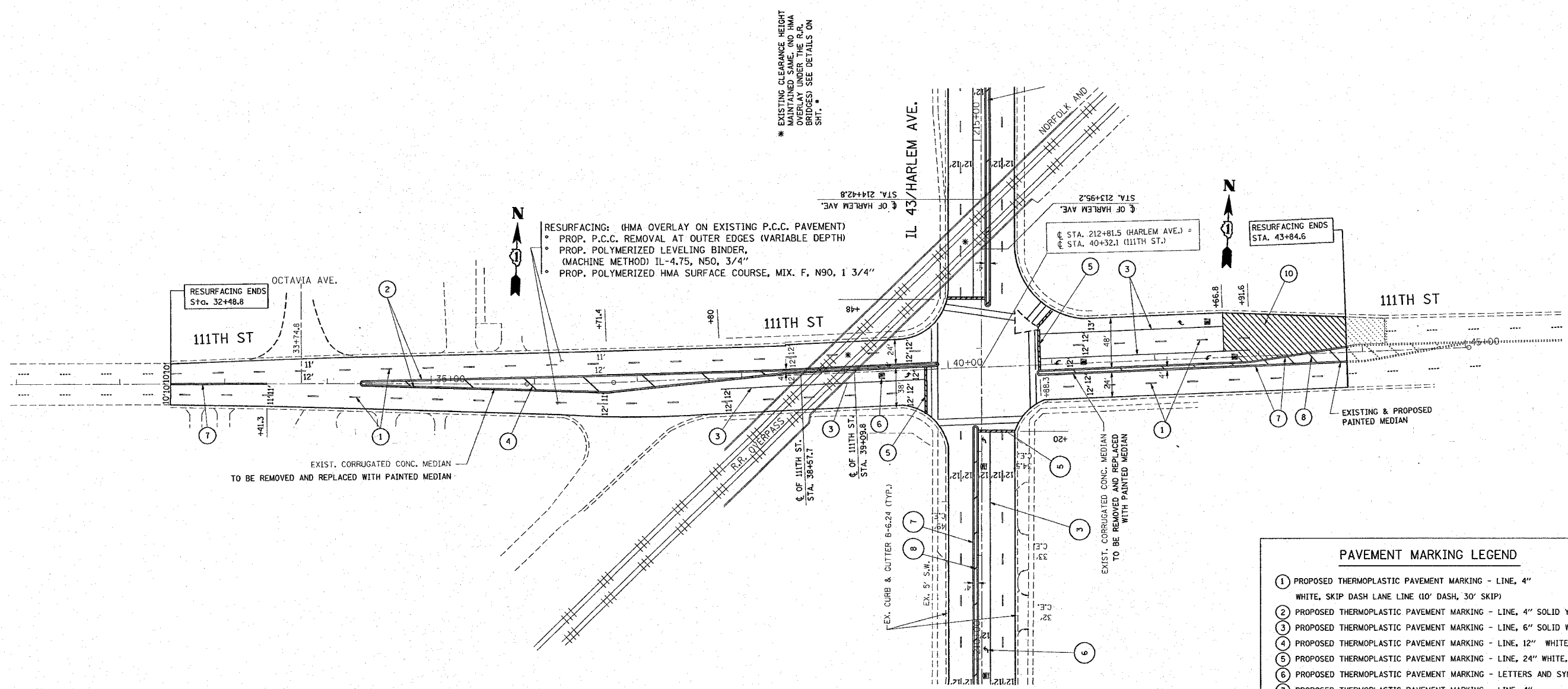
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 DATE 12/5/2007

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 CHECKED BY

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 USER NAME = driskong

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	27
STA. 32+48.8		TO STA. 45+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 3127-1) RS-1



PAVEMENT MARKING LEGEND

- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" WHITE, SKIP DASH LANE LINE (10' DASH, 30' SKIP)
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID YELLOW
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 6" SOLID WHITE, TURN LANE
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" WHITE DIAGONALS @ 75' C-C
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 24" WHITE, STOP BAR
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 4" SOLID DOUBLE YELLOW @ 11" C-C, FOR PAINTED MEDIAN
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE, 12" YELLOW DIAGONALS @ 75' C-C
- PROPOSED THERMOPLASTIC PAVEMENT MARKING - DIAGONAL LINE, 4" WHITE, 5' SPACING (IN FRONT OF FIRE STATION)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

111TH ST. @ IL. RTE. 43 (HARLEM AV.)
EXISTING AND PROPOSED
ROADWAY AND PAVEMENT MARKING PLAN
U.S. 6 TO IL. RTE. 7

SCALE: VERT. 1" = 50'
HORIZ. 1" = 50'

DATE 12/5/2007

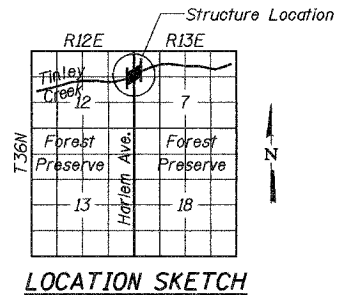
DRAWN BY
CHECKED BY

PLOT DATE = 12/05/2007
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PLOT SCALE = 1/8" = 1'-0"
USER NAME = drvkrkagm

Bench Marks:
 Top of concrete southeast wingwall, Sta. 20+23.68, 61.97' Rt., El. 647.13
 "X" Scribed into concrete median surface (Point B) Sta. 19+99.769, 0.0', El. 659.21

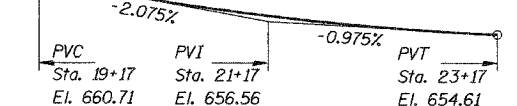
Existing Structure: S.N. 016-2400 Extended in 1970 to a triple
 10' x 8' R.C. box culvert, culvert length = 138'-9".
 Traffic to be maintained during construction.

No Salvage



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S1
FAP 348	***	COOK	86	28	S13 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

*** (1214 & 3127-1)RS-1 VC=400' Contract: 62343
 E=0.55'

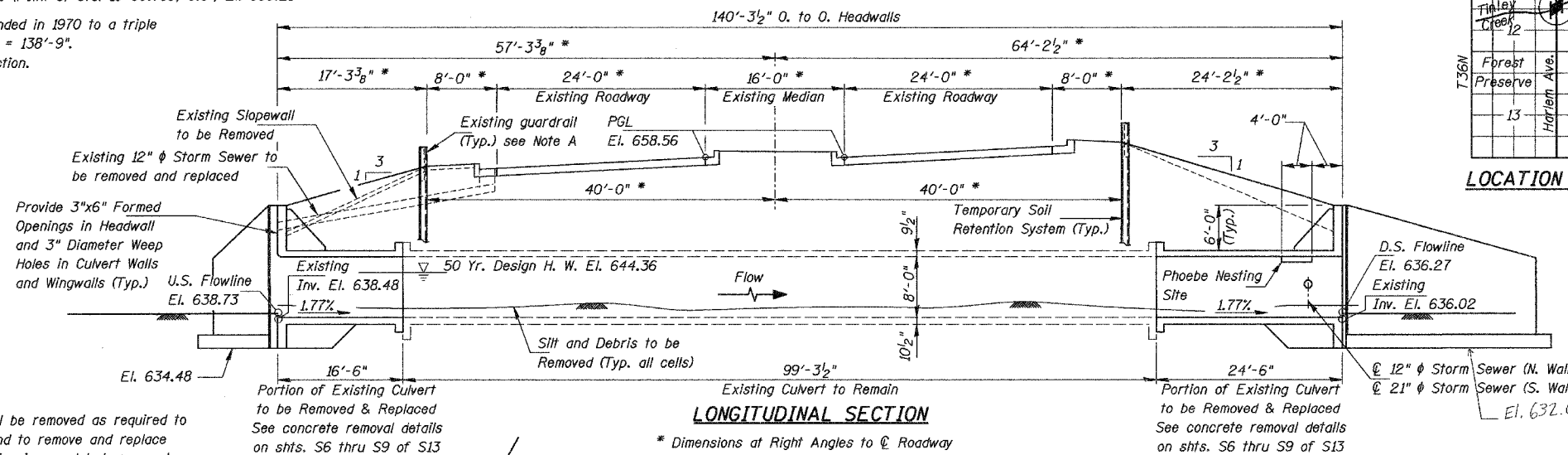


PROFILE GRADE IL. 43 (HARLEM AVE.)
 (Profile Grade is 8'-0" Rt. and 8'-0" Lt. of â Harlem Ave.)

WATERWAY INFORMATION

Drainage Area = 1.49 sq. mi. Low Grade Elev. 648.16 @ Sta. 29+17

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	856.7	240	240	644.0		0.37		644.36	
Base	100	982.8			644.19		0.38		644.58	
Overtopping										
Max. Calc.	500	1335.5			644.57		0.38		645.34	

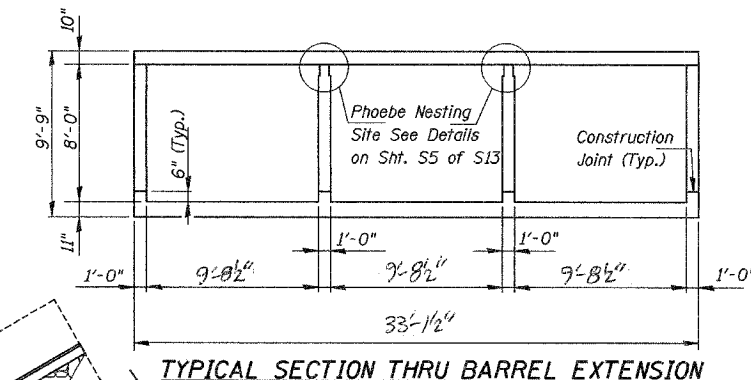


Note A:
 Existing guardrail and storm sewers shall be removed as required to install temporary soil retention system and to remove and replace culvert sections. After culvert construction is completed, removed guardrail shall be replaced in-kind and removed sections of pipe shall be replaced in-kind and reconnected to existing facilities. The removal and replacement-in-kind of the guardrail and pipe sections shall be performed and paid for in accordance with the roadway plans. See sheet S4 of S13 for details at pipe opening in culvert wall.

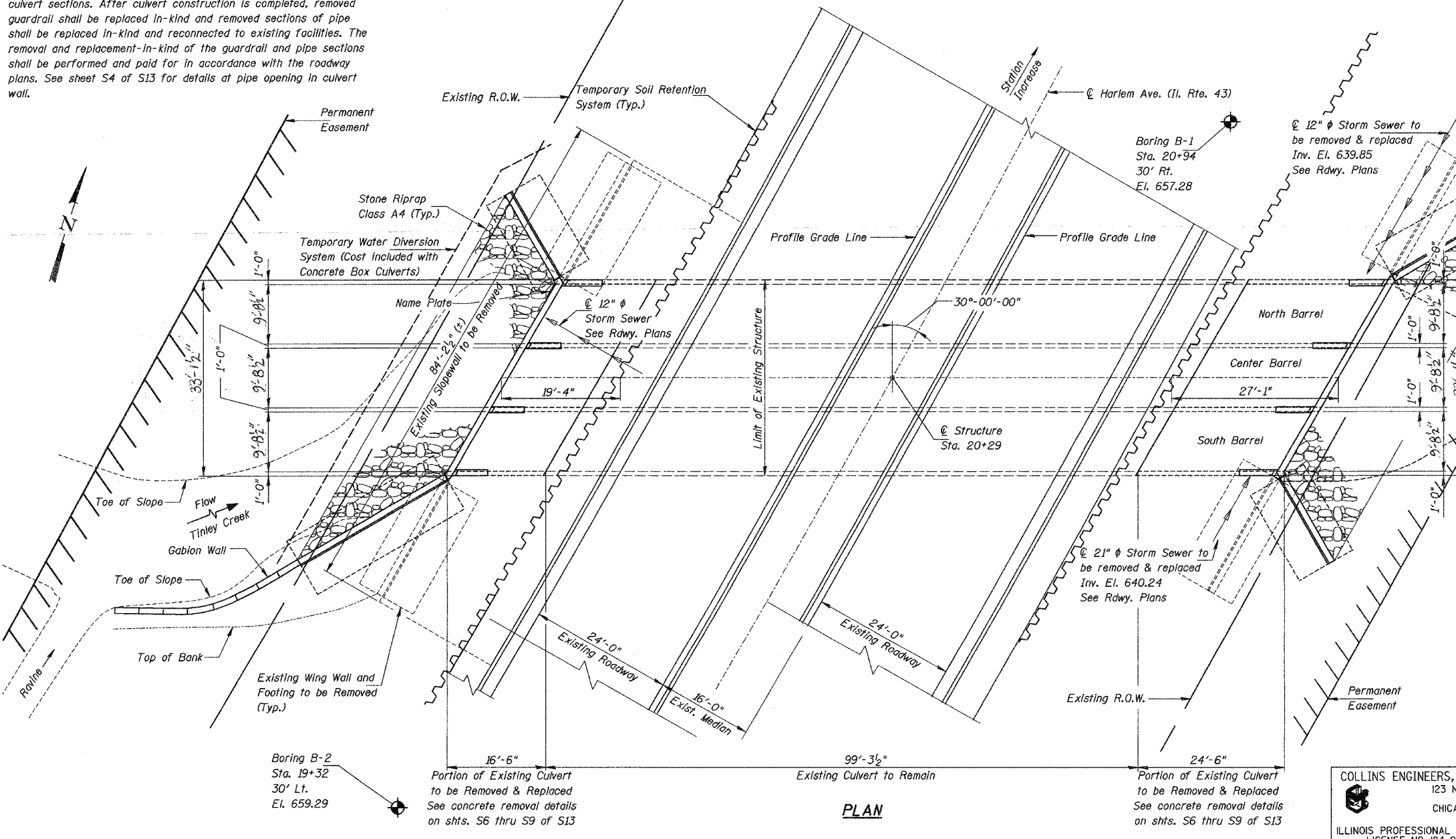
Portion of Existing Culvert to be Removed & Replaced See concrete removal details on shts. S6 thru S9 of S13

LONGITUDINAL SECTION

* Dimensions at Right Angles to â Roadway

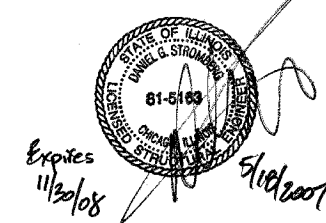


TYPICAL SECTION THRU BARREL EXTENSION



PLAN

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (PE)
 ENGINEER OF BRIDGES AND STRUCTURES



SCOPE OF WORK

1. Install temporary soil retention system.
2. Remove concrete slopewall on west side.
3. Remove end portions of box culvert, including wing walls.
4. Remove silt and debris from culvert.
5. Construct end portions of box culvert, including wing walls.
6. Complete formed high performance enhanced shotcrete repairs and epoxy crack sealing.
7. Place gabion baskets.
8. Regrade side slopes.

REVISIONS	
NAME	DATE

COLLINS ENGINEERS, INC.
 123 N. WACKER DR.
 SUITE 300
 CHICAGO, IL 60606
 (312)704-9300
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000993

ILLINOIS DEPARTMENT OF TRANSPORTATION
 HARLEM AVENUE (IL. 43) OVER
 TINLEY CREEK
 FAP ROUTE 348 SECTION 1214 & 3127-1)RS-1
 COOK COUNTY STATION 20+29
 STRUCTURE NO. 016-2400
GENERAL PLAN AND ELEVATION
 DRAWN BY: KAC
 CHECKED BY: PAS/DGS
 DATE: JULY, 2003

GENERAL NOTES:

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

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

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

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" x 12" hooked bolts.

Reinforcement bars designated (E) shall be epoxy coated.

Exposed edges shall have a 3/4" chamfer.

For backfilling and embankment, see Standard Specifications.

The structural repair of concrete depth ≤ 5" and epoxy crack sealing repairs specified on the plans indicate the minimum amount required for the rehabilitation of Structure No. 016-2400, based on the existing observed conditions. During cleaning of the box culverts, additional areas may be exposed that require high performance enhanced shotcrete and epoxy crack sealing repairs. Any such areas found shall be immediately brought to the attention of the Engineer and shall be repaired as directed by the Engineer. The cost for additional high performance enhanced shotcrete and epoxy crack sealing repairs not shown on the plans shall be paid at the unit price bid for that work.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal. Precast alternate not allowed.

LOADING HS20-44

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

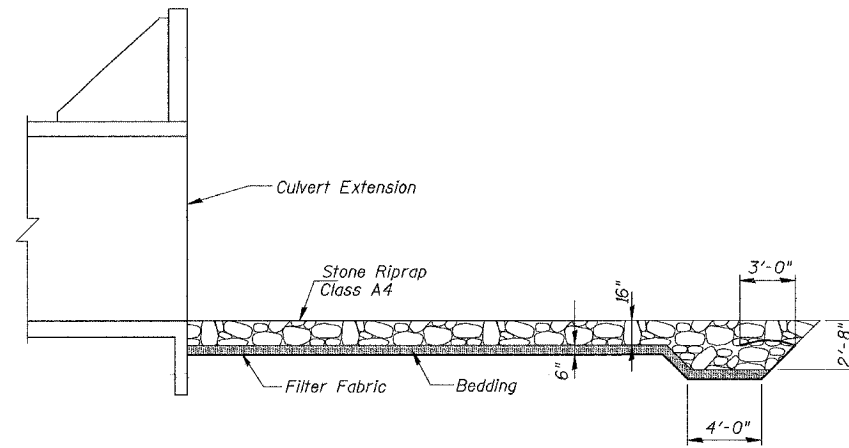
DESIGN SPECIFICATIONS

1996 AASHTO Standard Specifications for Highway Bridges, Including 1997, 1998, 1999 & 2000

DESIGN STRESSES FOR NEW CONSTRUCTION

FIELD UNITS

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



STONE RIPRAP ANCHOR DETAIL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S2
FAP 348	***	COOK	86	29	S13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract 62343		
*** (1214 & 3127-1)RS-1					

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		251.3	251.3
Structure Excavation	Cu. Yd.		3,691	3,691
Concrete Box Culverts	Cu. Yd.		284.2	284.2
Reinforcement Bars	Pound		55,880	55,880
Reinforcement Bars, Epoxy Coated	Pound		3,100	3,100
Stone Riprap, Class A4	Ton		154	154
Temporary Soil Retention System	Sq. Ft.		3,363	3,363
Name Plates	Each		1	1
Filter Fabric	Sq. Yd.		128	128
Epoxy Crack Injection	Foot		180	180
Structural Repair of Concrete Depth <5"	Sq. Ft.		704	704
Gabions	Cu. Yd.		82.0	82.0
Box Culverts to be Cleaned	Foot		421	421
Slope Wall Removal	Sq. Yd.		238.6	238.6
Geotechnical Fabric for French Drains	Sq. Yd.		66	66
Expansion Bolts 3/4 Inch x 12 inch	Each		112	112

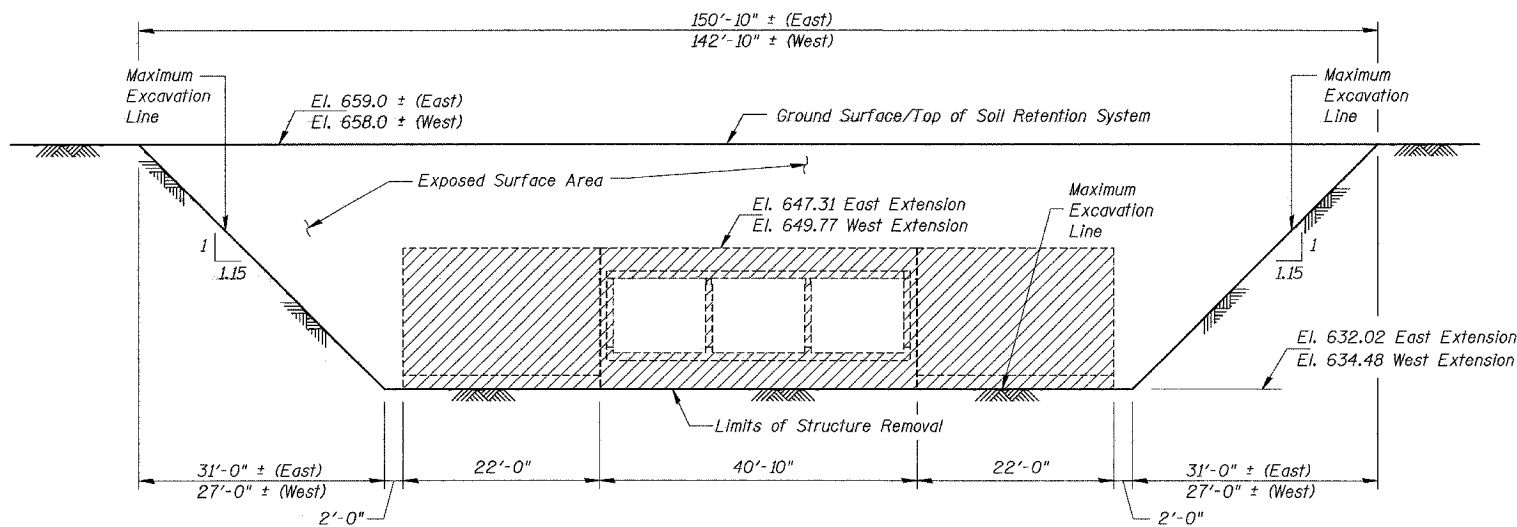
STATION 20+29
RE-BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 348 SEC. (1214 & 3127-1)RS-1
LOADING HS20
STR. NO. 016-2400

NAME PLATE

See Std. 515001

LIST OF STRUCTURAL DRAWINGS

TITLE	SHEET
General Plan And Elevation	S1
General Notes And Bill of Material	S2
Triple Box Culvert Details-I	S3
Triple Box Culvert Details-II	S4
Triple Box Culvert Details-III	S5
North Barrel Concrete Removal and Repairs	S6
Center Barrel Concrete Removal and Repairs	S7
South Barrel Concrete Removal and Repairs	S8
Concrete Removal Sections	S9
Channel Maintenance Plan	S10
Gabion Details - I	S11
Gabion Details - II	S12
Soil Borings	S13



TEMPORARY SOIL RETENTION SYSTEM

Dimensions are Parallel to ϕ Roadway

Note:

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

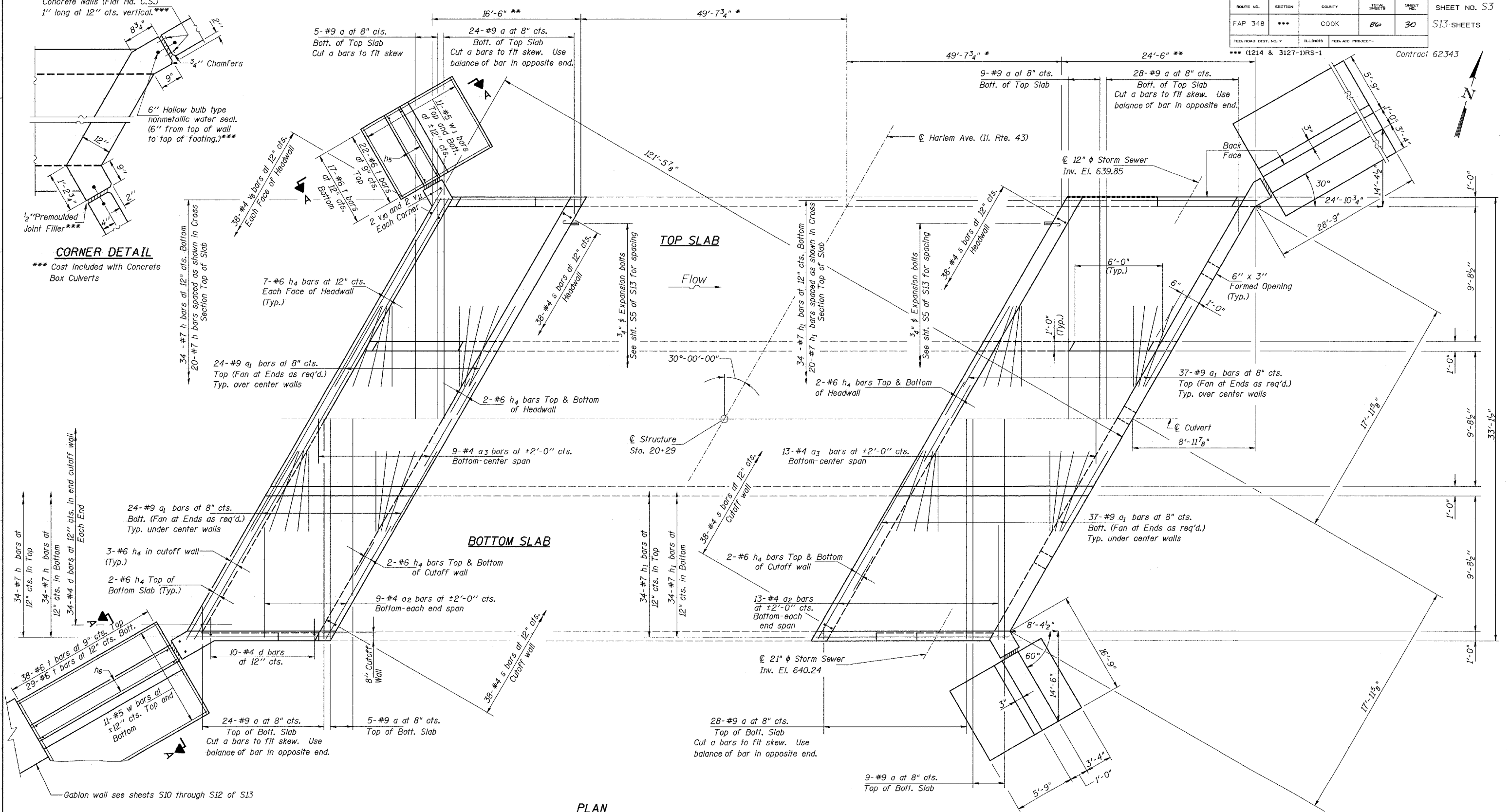
COLLINS ENGINEERS, INC.
123 N. WACKER DR.
SUITE 300
CHICAGO, IL 60606
(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
GENERAL NOTES AND BILL OF MATERIAL
DRAWN BY: KAC
CHECKED BY: RAM/DGS
DATE: JULY, 2003

Concrete Nails (Flat Hd. C.S.)
1" long at 12" cts. vertical.***

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 53
FAP 348	***	COOK	86	30	S13 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT- *** (1214 & 3127-1)RS-1		Contract 62343



PLAN

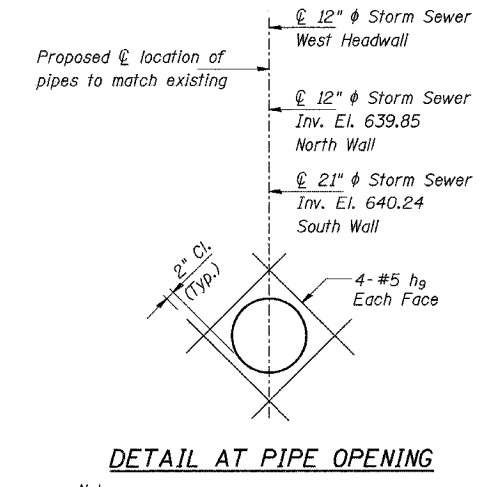
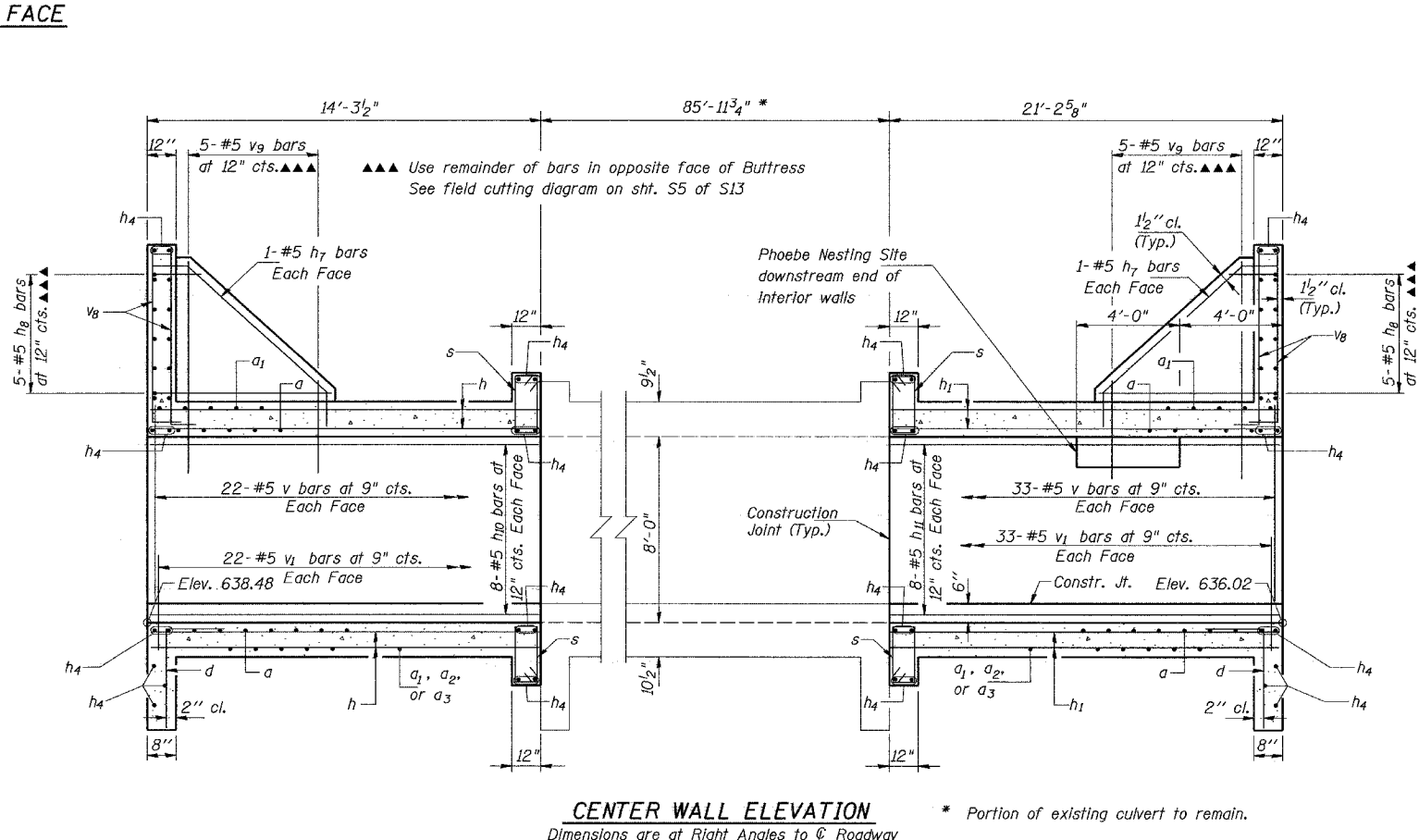
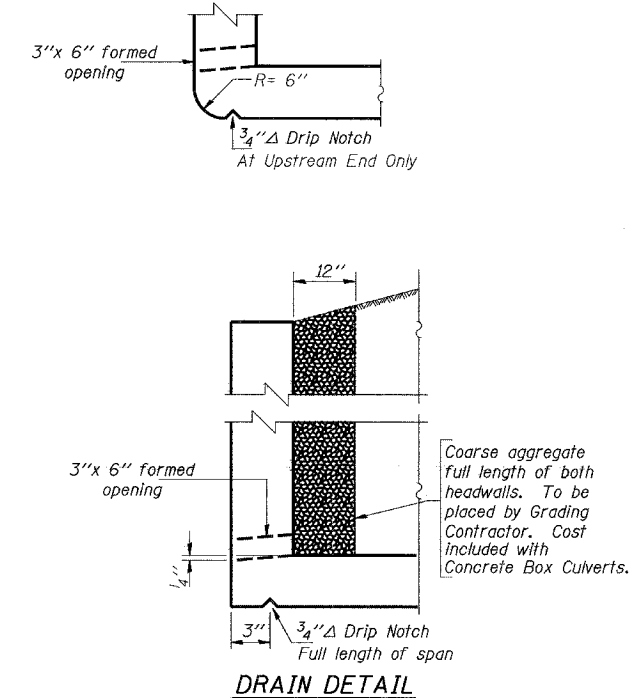
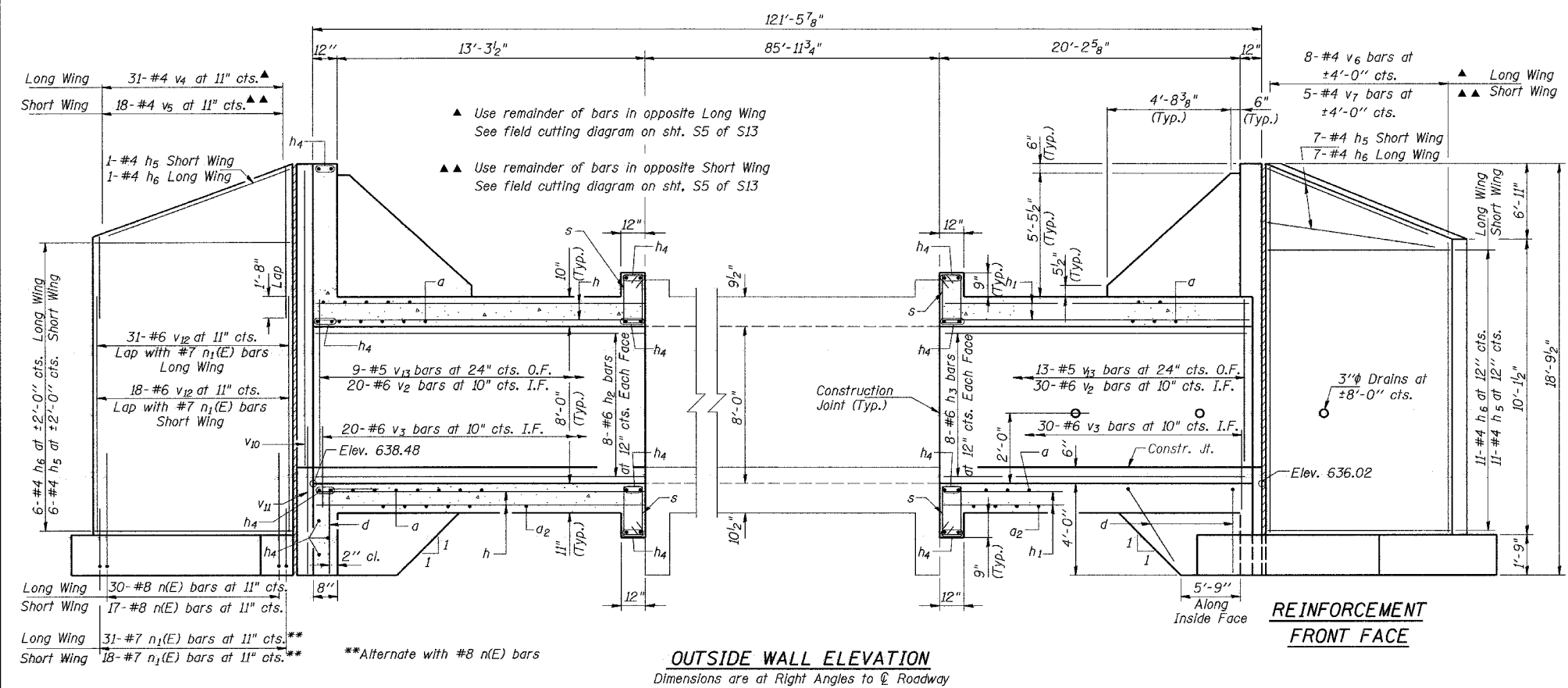
Notes:
 For Wall Elevations and Section A-A see sheet S4 of S13.
 For Barrel Sections and Bill of Material see Sheet S5 of S13.

- * Existing culvert to remain.
- ** Existing culvert to be removed and replaced.

COLLINS ENGINEERS, INC.
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 CHICAGO, IL 60606
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 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 HARLEM AVENUE (IL. 43) OVER
 TINLEY CREEK
 FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
 COOK COUNTY STATION 20+29
 STRUCTURE NO. 016-2400
TRIPLE BOX CULVERT DETAILS-I
 DRAWN BY: KAC
 CHECKED BY: RAM/DGS
 DATE: JULY, 2003



Notes:
Field cut horizontal and longitudinal reinforcement bars as required to clear openings.

Notes:
For Additional Reinforcement Details see sheet S3 of S13.
For Barrel Sections and Bill of Material see Sheet S5 of S13.

COLLINS ENGINEERS, INC.
123 N. WACKER DR.
SUITE 300
CHICAGO, IL 60608
(312)704-9300

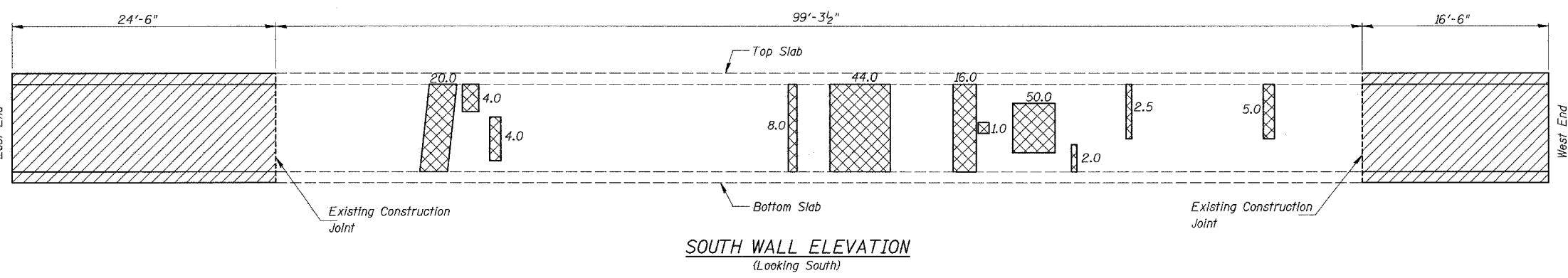
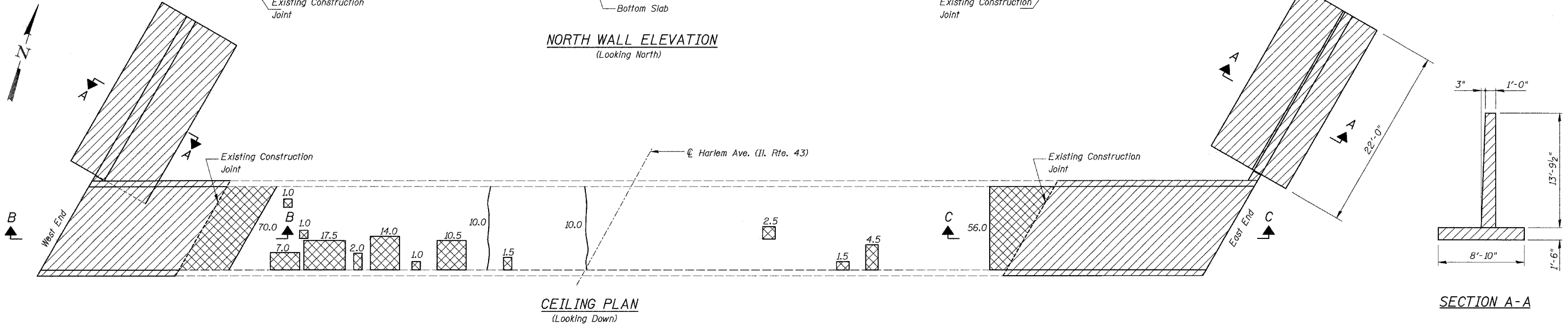
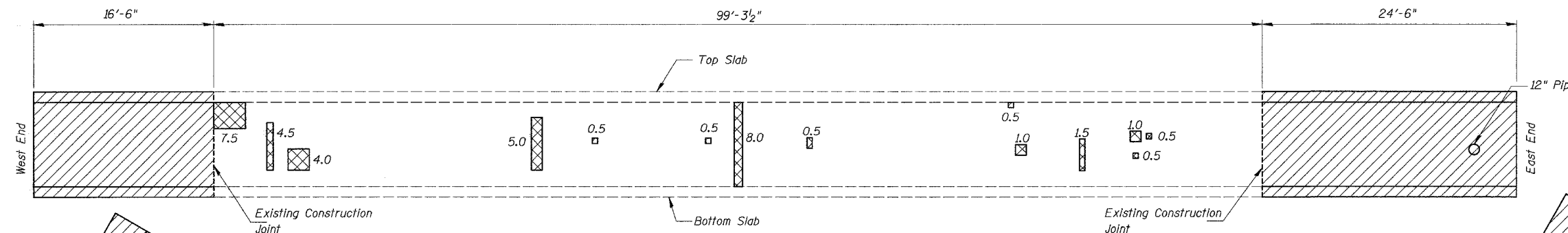
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400

TRIPLE BOX CULVERT DETAILS-II

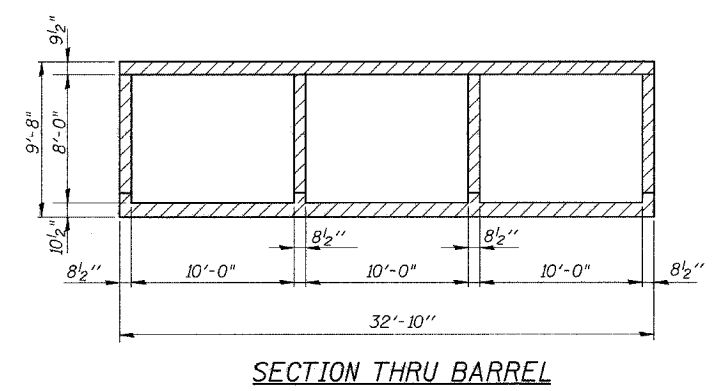
DRAWN BY: KAC
CHECKED BY: RAM/DGS
DATE: JULY, 2003



- Legend:**
- Indicates Structural Repair of Concrete, Depth ≤ 5" in square feet
 - Indicates Epoxy Crack Injection in feet
 - Denotes Concrete Removal (See Sheet S9 of S13)

BILL OF MATERIAL

Item	Unit	Total
Box Culverts To Be Cleaned	Foot	140.3
Structural Repair of Concrete, Depth ≤ 5"	Sq. Ft.	382
Epoxy Crack Injection	Foot	20



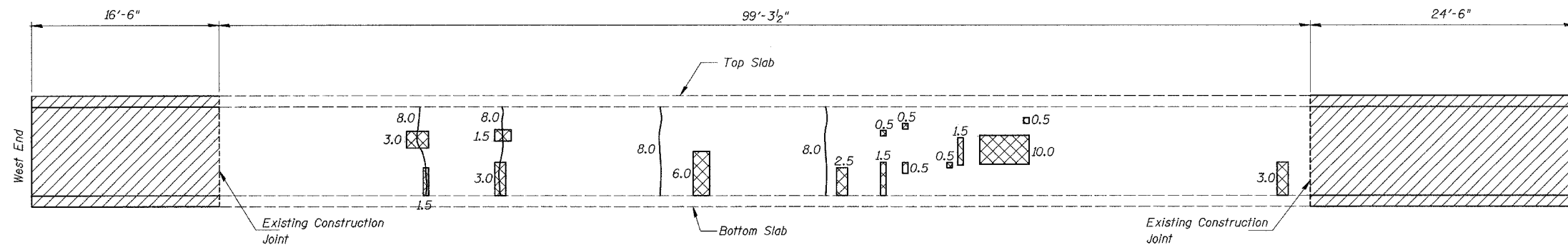
Notes:
For Sections B-B and C-C see sheet S9 of S13.

COLLINS ENGINEERS, INC.
123 N. WACKER DR.
SUITE 300
CHICAGO, IL 60606
(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

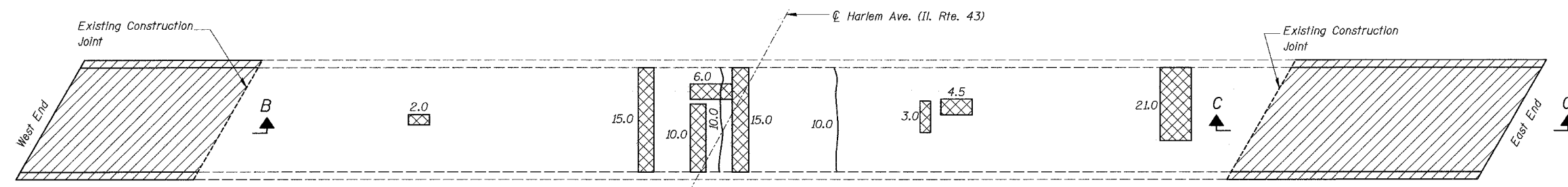
REVISIONS

NAME	DATE

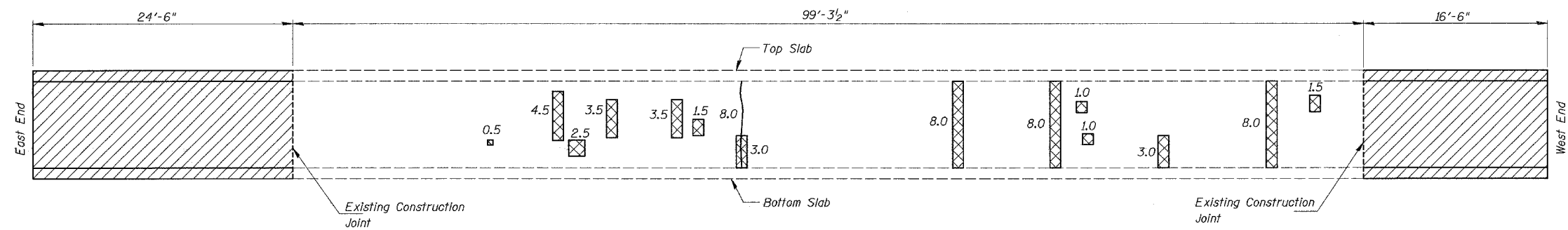
ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
**NORTH BARREL CONCRETE REMOVAL
AND REPAIRS**
DRAWN BY: DR
CHECKED BY: PAS/DGS
DATE: JULY, 2003



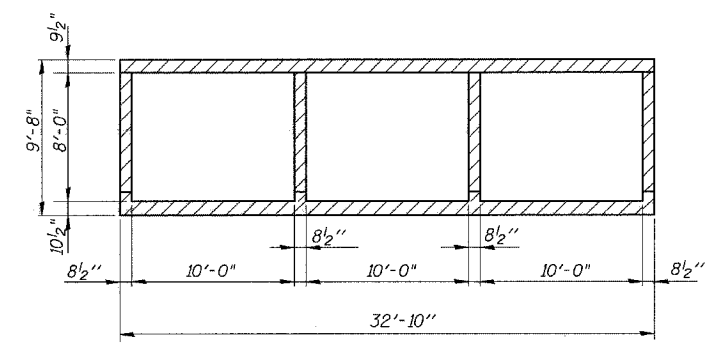
NORTH WALL ELEVATION
(Looking North)



CEILING PLAN
(Looking Down)



SOUTH WALL ELEVATION
(Looking South)



SECTION THRU BARREL

Notes:
For Sections B-B and C-C see sheet S9 of S13.

- Legend:
- Indicates Structural Repair of Concrete, Depth ≤ 5" in square feet
 - Indicates Epoxy Crack Injection in feet
 - Denotes Concrete Removal (See Sheet S9 of S13)

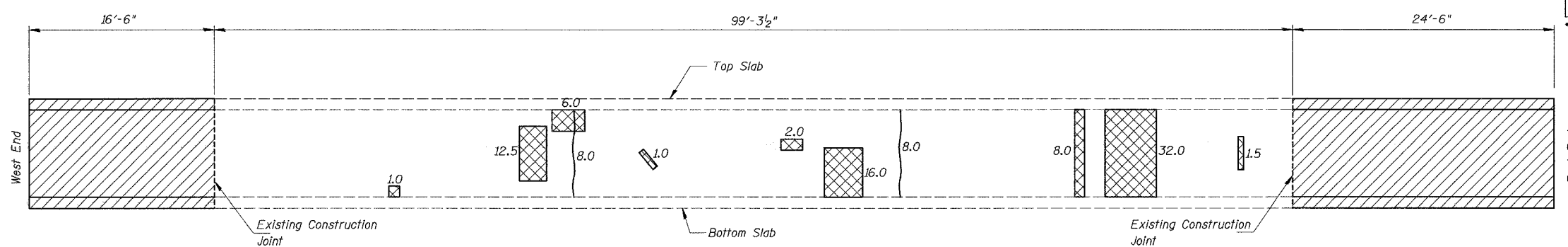
BILL OF MATERIAL

Item	Unit	Total
Box Culverts To Be Cleaned	Foot	140.3
Structural Repair of Concrete, Depth ≤ 5"	Sq. Ft.	162
Epoxy Crack Injection	Foot	60

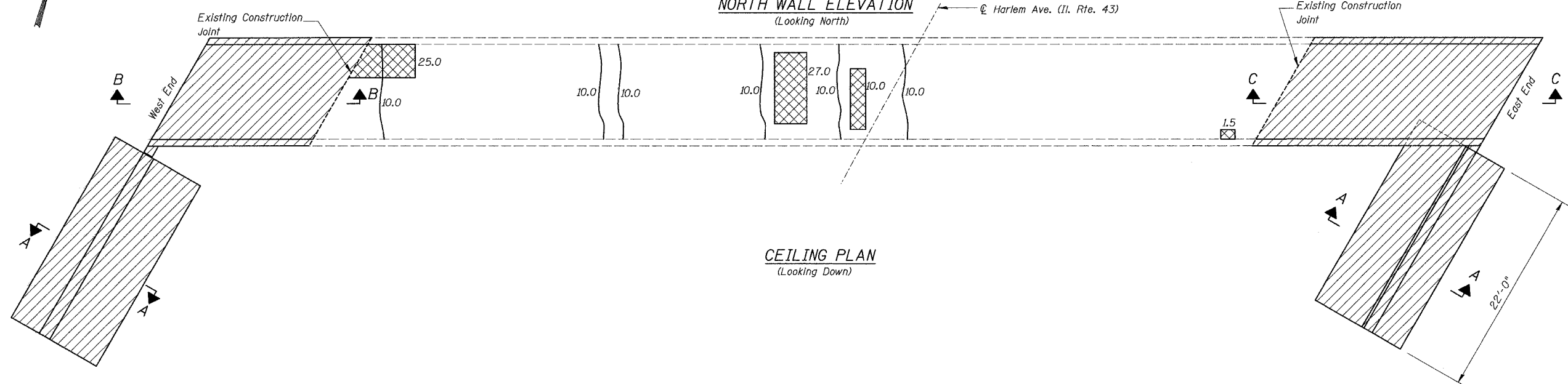
COLLINS ENGINEERS, INC.
123 N. WACKER DR.
SUITE 300
CHICAGO, IL 60606
(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

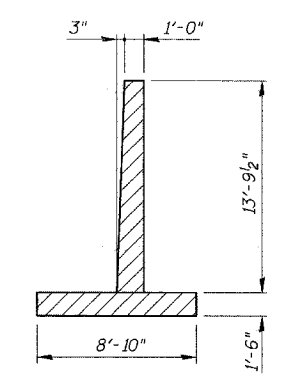
ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
**CENTER BARREL CONCRETE REMOVAL
AND REPAIRS**
DRAWN BY: DR
CHECKED BY: PAS/DGS
DATE: JULY, 2003



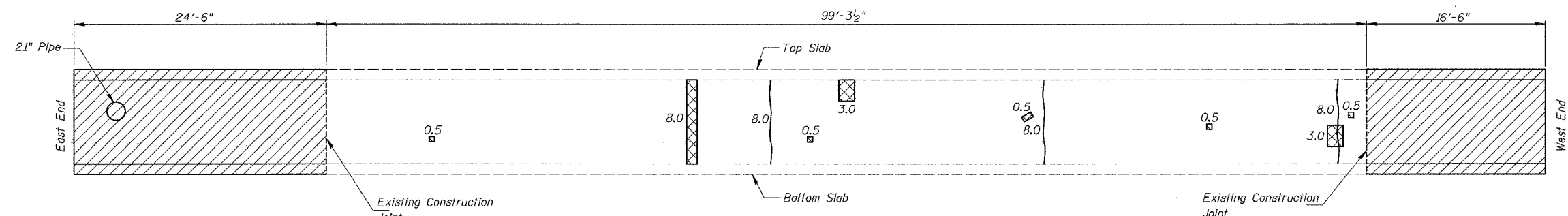
NORTH WALL ELEVATION
(Looking North)
@ Harlem Ave. (Il. Rte. 43)



CEILING PLAN
(Looking Down)



SECTION A-A

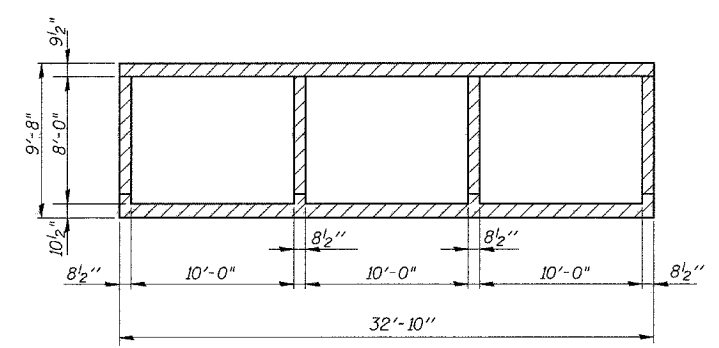


SOUTH WALL ELEVATION
(Looking South)

- Legend:**
- Indicates Structural Repair of Concrete, Depth ≤ 5" in square feet
 - Indicates Epoxy Crack Injection in feet
 - Denotes Concrete Removal (See Sheet S9 of S13)

BILL OF MATERIAL

Item	Unit	Total
Box Culverts To Be Cleaned	Foot	140.3
Structural Repair of Concrete, Depth < 5"	Sq. Ft.	160
Epoxy Crack Injection	Foot	100



SECTION THRU BARREL

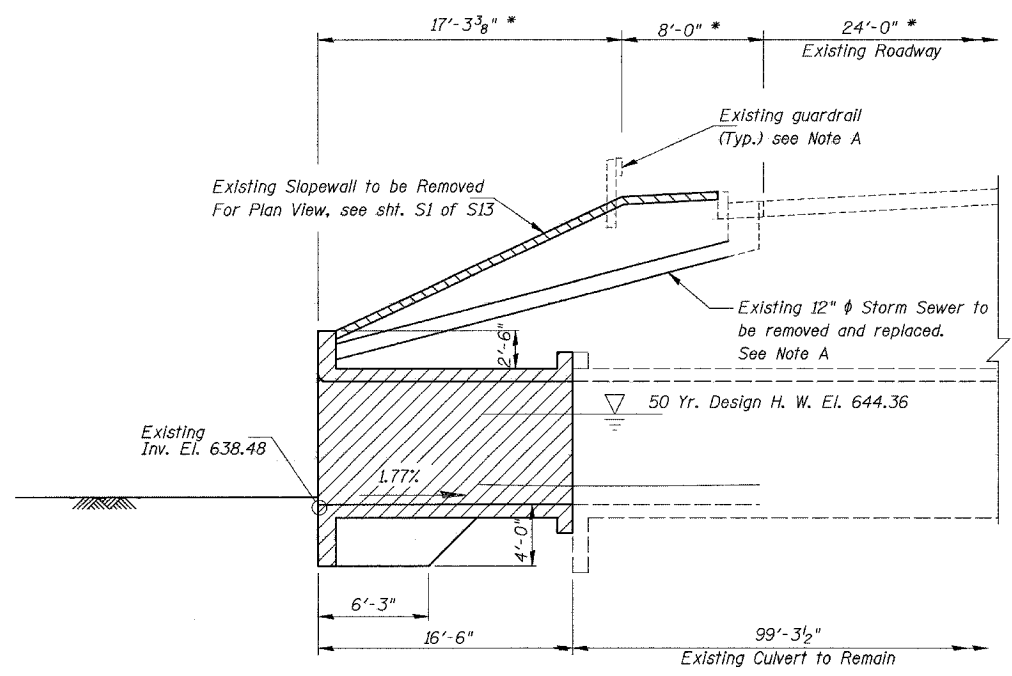
Notes:
For Sections B-B and C-C see sheet S9 of S13.

COLLINS ENGINEERS, INC.
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(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

REVISIONS

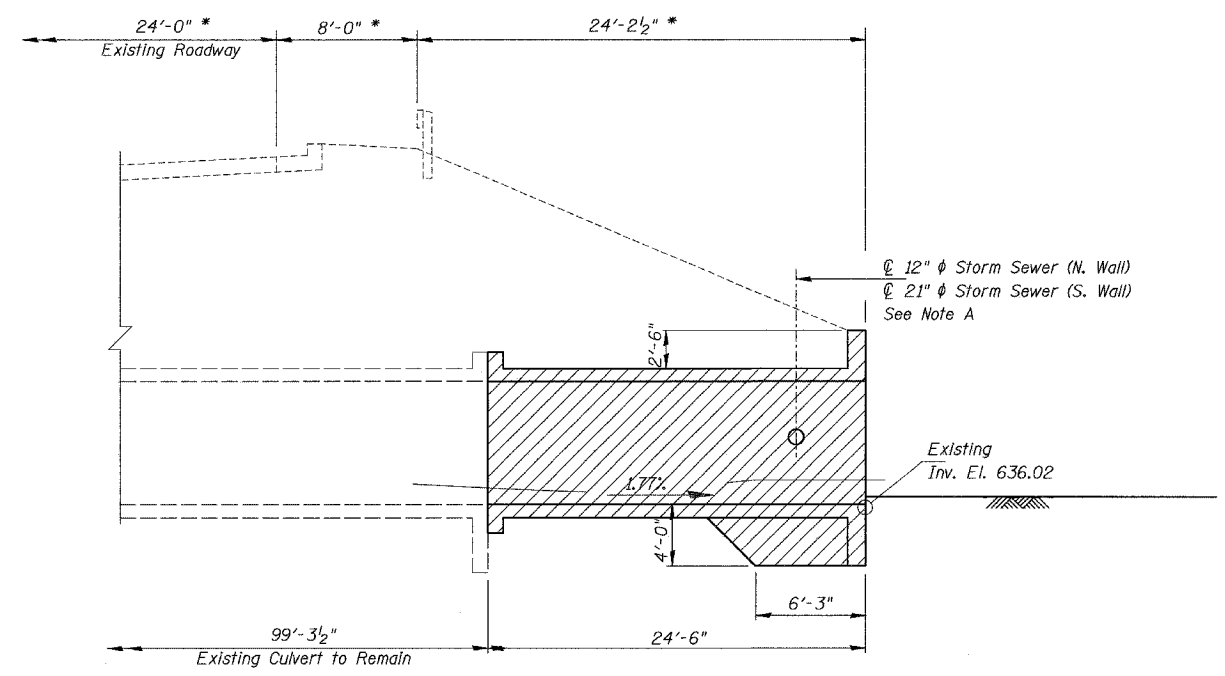
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
**SOUTH BARREL CONCRETE REMOVAL
AND REPAIRS**
DRAWN BY: DR
CHECKED BY: PAS/DGS
DATE: JULY, 2003



SECTION B-B

* Dimensions at Right Angles to \perp Roadway



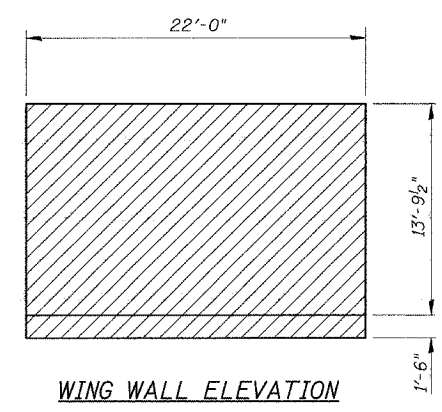
SECTION C-C

* Dimensions at Right Angles to \perp Roadway

Note A:
Existing guardrail and storm sewers shall be removed as required to install temporary soil retention system and to remove and replace culvert sections. After culvert construction is completed, removed guardrail shall be replaced in-kind and removed sections of pipe shall be replaced in-kind and reconnected to existing facilities see Rdwy. Plans. See sheet S4 of S13 for detail at pipe opening in culvert wall.

Legend:

	Denotes Concrete Removal
	Denotes Slope Wall Removal



BILL OF MATERIAL

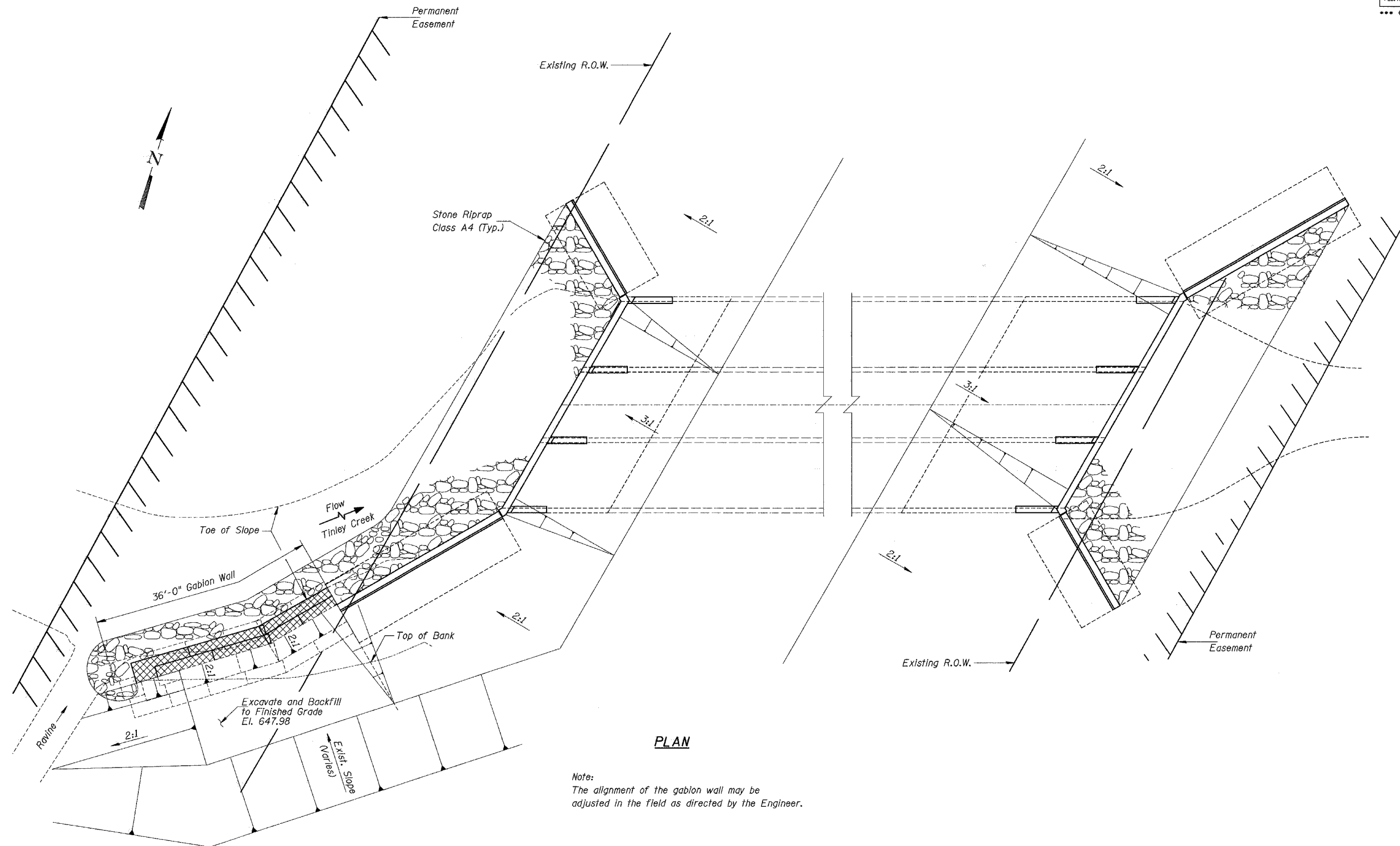
Item	Unit	Total
Concrete Removal	Cu. Yd.	251.3
Slope Wall Removal	Sq. Yd.	238.6

Note:
West End Concrete Removal = 112.5 Cu. Yds.
East End Concrete Removal = 138.8 Cu. Yds.

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LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

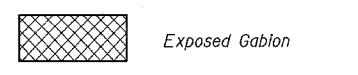
ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
CONCRETE REMOVAL SECTIONS
DRAWN BY: DR
CHECKED BY: PAS/DGS
DATE: JULY, 2003



PLAN

Note:
The alignment of the gabion wall may be adjusted in the field as directed by the Engineer.

Legend:



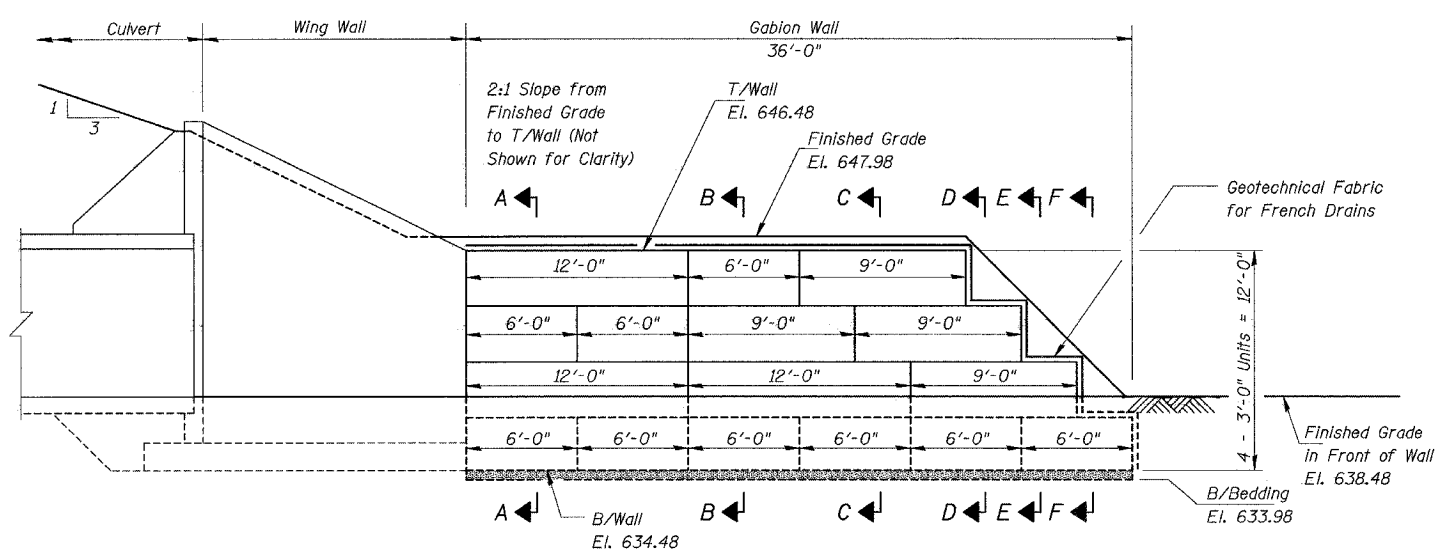
BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	3,691
Gabions	Cu. Yd.	82.0
Geotechnical Fabric for French Drains	Sq. Yd.	66.0

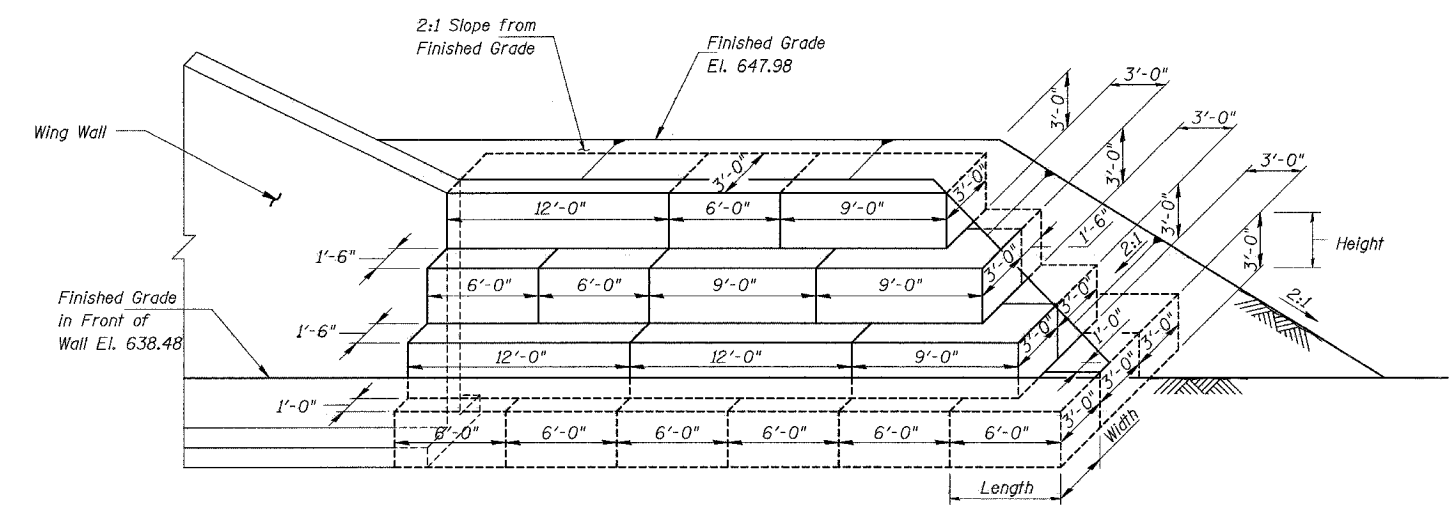
COLLINS ENGINEERS, INC.
123 N. WACKER DR.
SUITE 300
CHICAGO, IL. 60606
(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

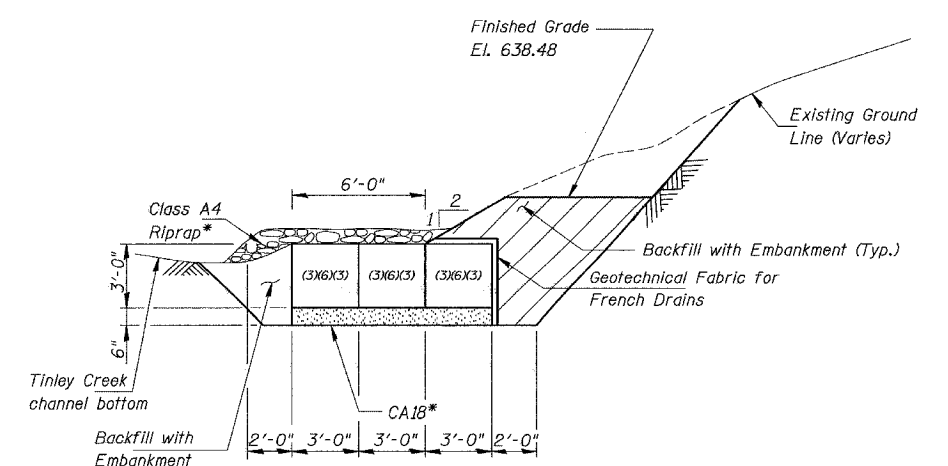
ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
CHANNEL MAINTENANCE PLAN
DRAWN BY: KAC
CHECKED BY: PAS/DGS
DATE: JULY, 2003



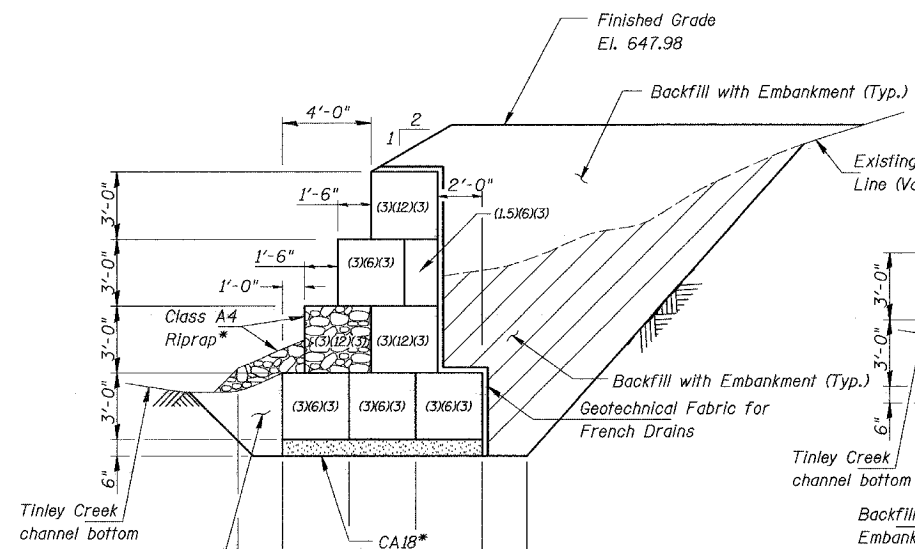
NORTH ELEVATION



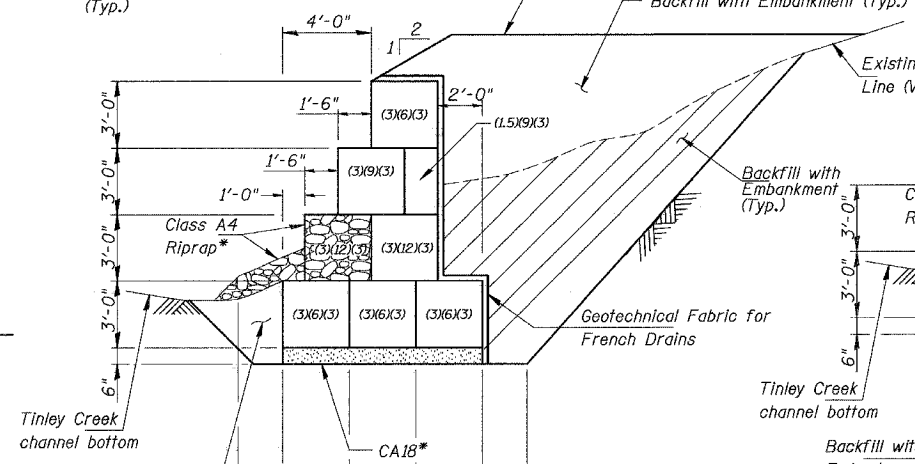
ISOMETRIC VIEW OF THE GABION WALL
(Change in wall alignment not shown for clarity.)



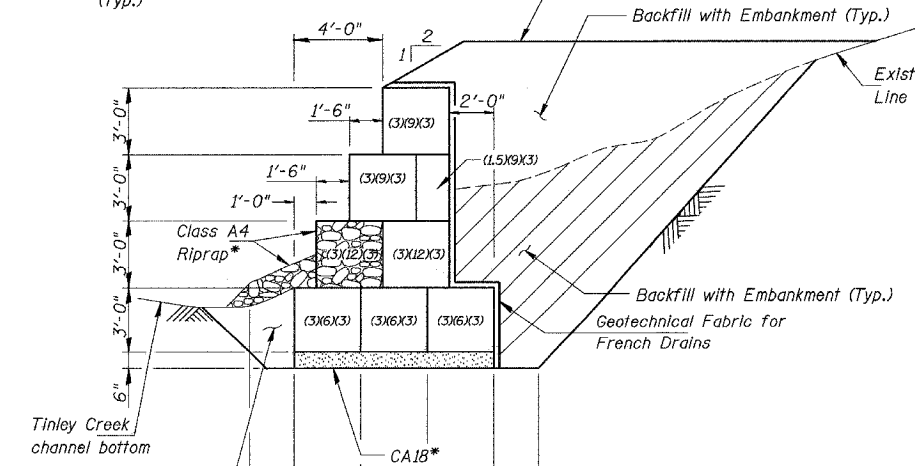
SECTION F-F
* Cost Included with Gabions



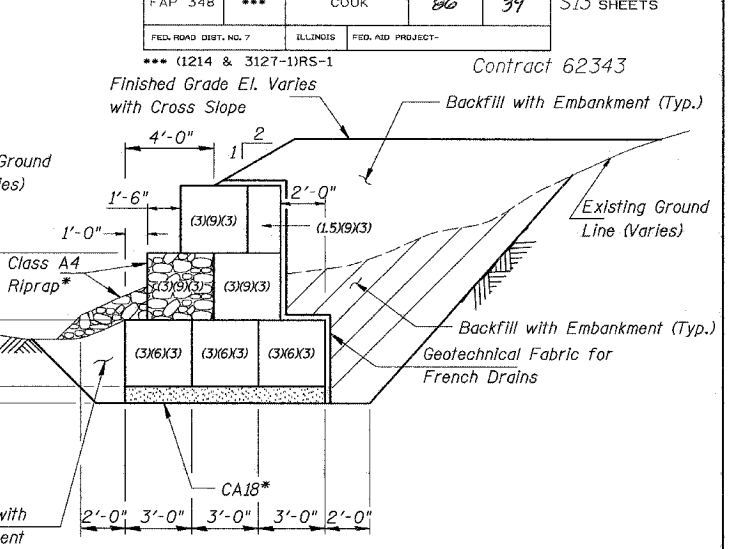
SECTION A-A
* Cost included with Gabions



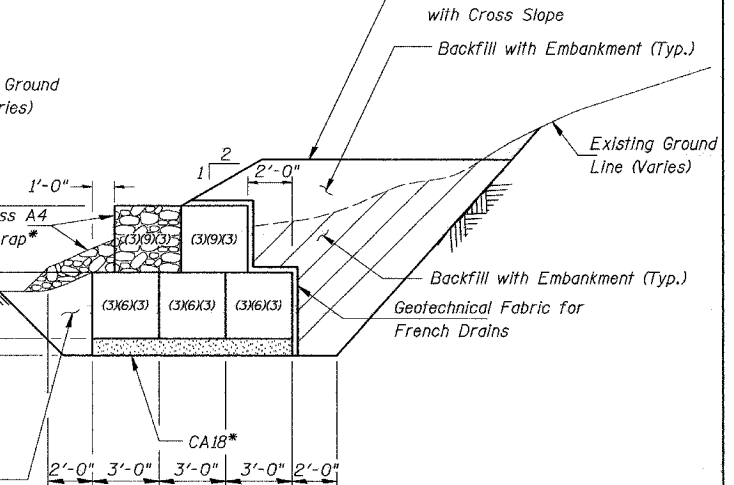
SECTION B-B
* Cost included with Gabions



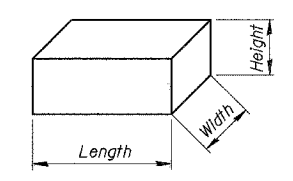
SECTION C-C
* Cost Included with Gabions



SECTION D-D
* Cost Included with Gabions



SECTION E-E
* Cost Included with Gabions



Note:
Dimensions are Width x Length x Height in feet.

GABION DETAIL
(Typical Elevation View)

REVISIONS	
NAME	DATE

COLLINS ENGINEERS, INC.
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LICENSE NO. 184-000993

ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL 43) OVER
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29
STRUCTURE NO. 016-2400
GABION DETAILS - II
DRAWN BY: KAC
CHECKED BY: PAS/DGS
DATE: JULY, 2003

STC Consultants Ltd.
STRUCTURE BORING LOG

JOB NO. 32931 Date _____ Page 1 of 1

ROUTE IL RTE 43 DESCRIPTION Tinley Creek Culvert

SECT. _____ STRUCT. NO. 016-2400 DRILLED BY Franks-CME 45

COUNTY Cook LOCATION Illinois Route 43 & Tinley Creek, Orland Park, IL

Boring No.	Station	Offset	DEPTH	BLOW	QU	W	Surface Water Elev.	Groundwater Elev.	DEPTH	BLOW	QU	W
			H	S	tsf	%			H	S	tsf	%
B-2	19+32	30' Lt.										
			659.79									
			658.29									
			657.79									
			652.79									
			651.79									
			646.79									
			641.79									
			640.29									
			634.79									
			634.29									

8" concrete, 4" gravel base course
 Fill: Cinders, sand and topsoil - dark brown
 Fill: Very stiff, brown CLAY with trace sand and gravel

ORGANIC CLAY noted on augers
 Hit concrete at 7.5' offset
 4" East
 Very stiff, brown to brownish gray CLAY with trace sand and gravel
 Medium CLAY from 10.0' to 11.5'

Very stiff to hard, gray CLAY with trace sand and gravel
 Layers of saturated SILT noted.

Hard, brown and gray mottled CLAY with little sand and gravel
 Limestone noted at 19.0'
 Stiff to hard, gray CLAY

Medium dense, gray

SPT: (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

STC Consultants Ltd.
STRUCTURE BORING LOG

JOB NO. 32931 Date _____ Page 1 of 1

ROUTE IL RTE 43 DESCRIPTION Tinley Creek Culvert

SECT. _____ STRUCT. NO. _____ DRILLED BY Franks-CME 45

COUNTY Cook LOCATION Illinois Route 43 & Tinley Creek, Orland Park, IL

Boring No.	Station	Offset	DEPTH	BLOW	QU	W	Surface Water Elev.	Groundwater Elev.	DEPTH	BLOW	QU	W
			H	S	tsf	%			H	S	tsf	%
B-1	20+94	30' Rt.										
			656.28									
			651.28									
			649.28									
			642.28									
			643.78									
			642.28									
			638.78									
			633.78									
			632.28									

8" concrete, 4" gravel base course
 Fill: Hard, brown CLAY with trace sand and gravel

End of Boring
 Borehole backfilled and patched.
 Automatic-CME Hammer used for Standard Penetration Tests.

Fill: Stiff to very stiff, brown, black and gray CLAY with organics noted

Fill: Very stiff, brown CLAY with trace sand and gravel

Rock split sample from 10.0' to 11.5'

Brown and gray mottled from 12.5' to 13.5'
 Stiff gray, ORGANIC CLAY

Very stiff to hard, brown and gray mottled CLAY
 Seams of wet silt noted.

Stiff, gray to dark gray ORGANIC CLAY & CLAY layers
 Silt layers noted.

Hard gray, CLAY with trace sand and gravel

SPT: (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

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 SUITE 300
 CHICAGO, IL 60606
 (312) 704-9300
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000993

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 HARLEM AVENUE (IL. 43) OVER
 TINLEY CREEK
 FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
 COOK COUNTY STATION 20+29
 STRUCTURE NO. 016-2400

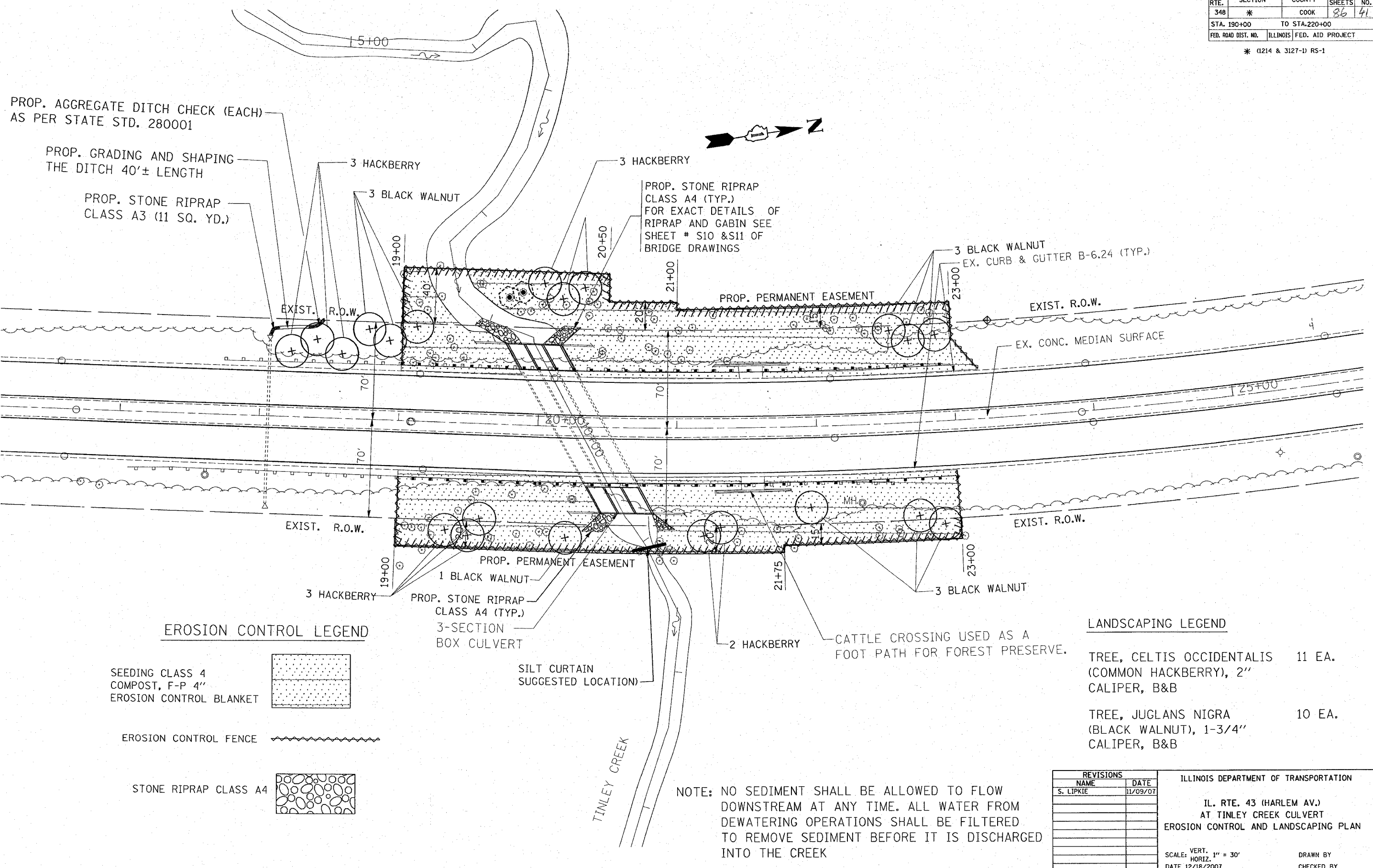
SOIL BORINGS

DRAWN BY: KAC
 CHECKED BY: PAS/DGS DATE: JULY, 2003

*REF-plan21
*REF-plan22

CONTRACT NO. 62343			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
348	*	COOK	86
STA. 190+00		TO STA. 220+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

* (1214 & 3127-1) RS-1



EROSION CONTROL LEGEND

- SEEDING CLASS 4
COMPOST, F-P 4"
EROSION CONTROL BLANKET
- EROSION CONTROL FENCE
- STONE RIPRAP CLASS A4

SILT CURTAIN
SUGGESTED LOCATION

LANDSCAPING LEGEND

- TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, B&B 11 EA.
- TREE, JUGLANS NIGRA (BLACK WALNUT), 1-3/4" CALIPER, B&B 10 EA.

NOTE: NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED INTO THE CREEK

REVISIONS	
NAME	DATE
S. LIPKIE	11/09/07

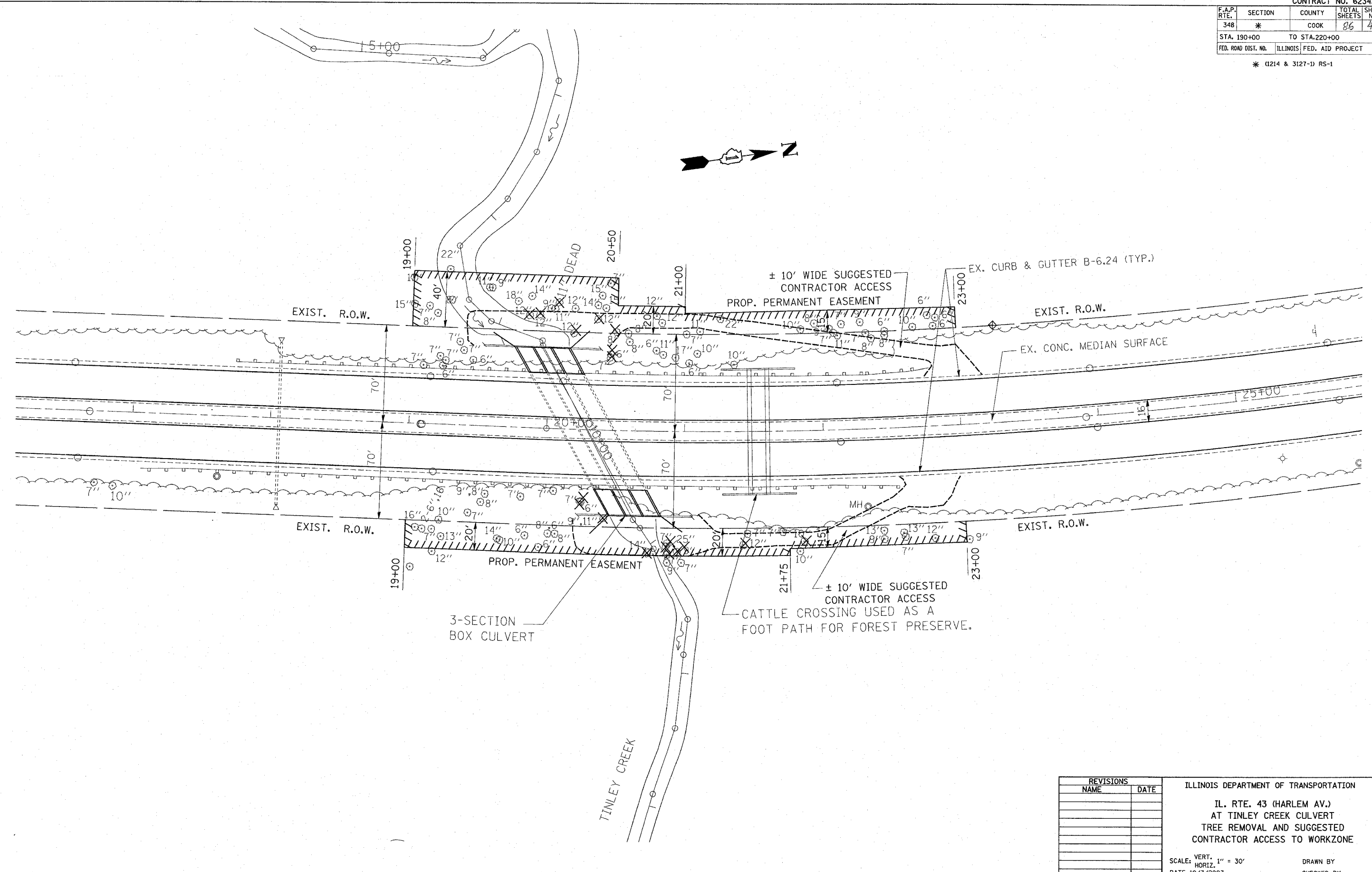
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 43 (HARLEM AV.)
AT TINLEY CREEK CULVERT
EROSION CONTROL AND LANDSCAPING PLAN
SCALE: VERT. 1" = 30'
HORIZ.
DATE 12/18/2007
DRAWN BY
CHECKED BY

PLOT DATE = 12/18/2007
FILE NAME = c:\p\proj\100\100\100\100\100.dwg
PLOT SCALE = 3/8" = 1' IN.
USER NAME = drakecogn

*REF-plan21
*REF-plan22

CONTRACT NO. 62343				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	42
STA. 190+00		TO STA. 220+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1214 & 3127-1) RS-1



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REVISIONS	
NAME	DATE

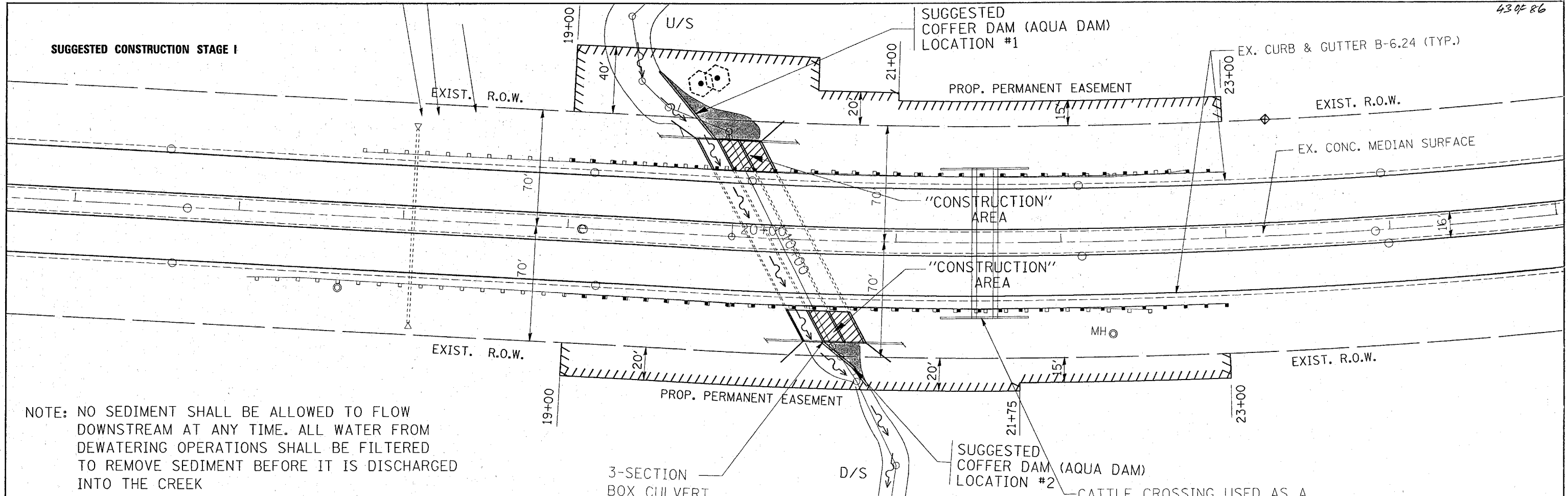
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 43 (HARLEM AV.)
AT TINLEY CREEK CULVERT
TREE REMOVAL AND SUGGESTED
CONTRACTOR ACCESS TO WORKZONE

VERT. SCALE: 1" = 30'
DATE 10/3/2007

DRAWN BY
CHECKED BY

SUGGESTED CONSTRUCTION STAGE I

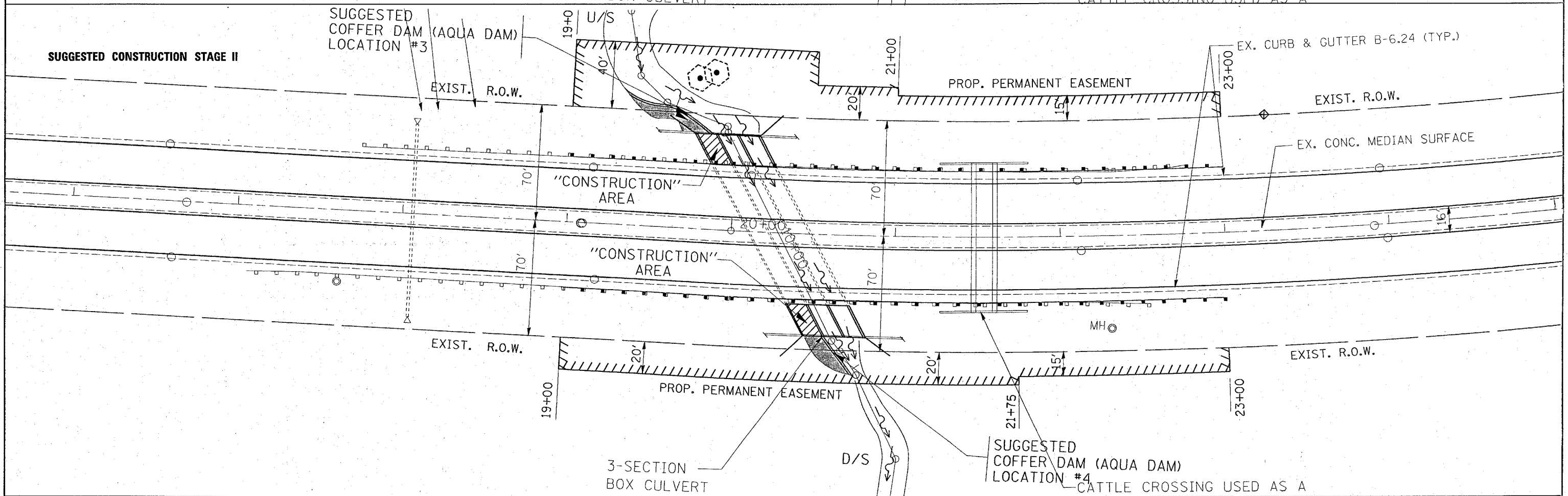
SUGGESTED COFFER DAM (AQUA DAM) LOCATION #1



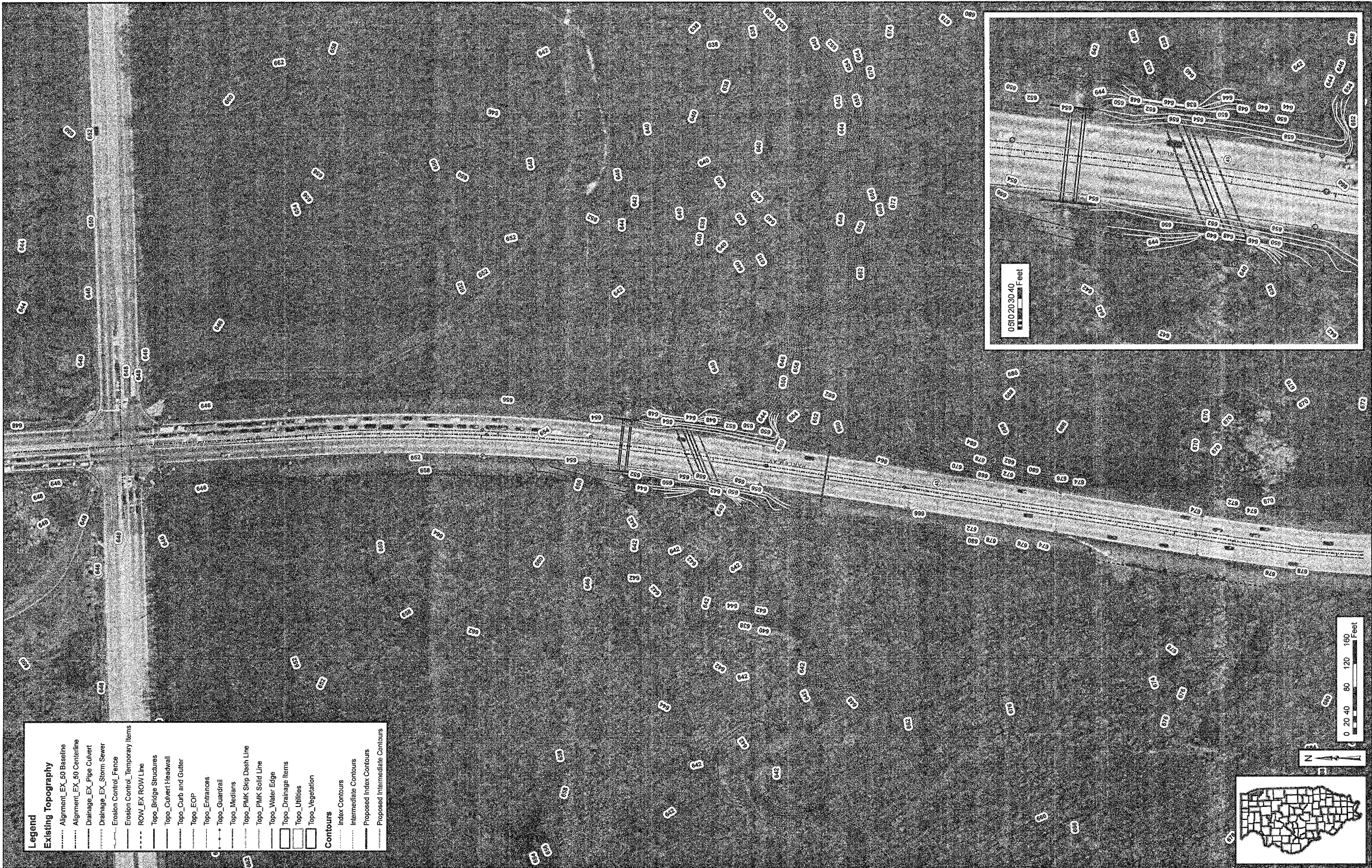
NOTE: NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED INTO THE CREEK

SUGGESTED CONSTRUCTION STAGE II

SUGGESTED COFFER DAM (AQUA DAM) LOCATION #3



FILE NAME = c:\projects\dl49201\staging.dgn	USER NAME = drsvakosgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 43 (HARLEM AVE.) AT TINLEY CREEK CULVERT SUGGESTED STAGE CONSTRUCTION			F.A.P. RTE. 348	SECTION (1214 & 3127-1) RS-1	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 43
PLOT SCALE = 30.0001' / IN.	DRAWN -	CHECKED -	REVISED -		SCALE: 30	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/13/2007	DATE -	REVISED -	REVISED -									



Legend	
Existing Topography	
Alignment_EX_50 Baseline	Alignment_EX_50 Centerline
Drainage_EX_Pipe Culvert	Drainage_EX_Storm Sewer
Erosion Control_Fence	Erosion Control_Temporary Items
ROW_EX ROW Line	Topo_Bridge Structures
Topo_Culvert Headwall	Topo_Curb and Gutter
Topo_EOP	Topo_Entrances
Topo_Guardrail	Topo_Medians
Topo_PMK Skip Dash Line	Topo_PMK Solid Line
Topo_Water Edge	Topo_Drainage Items
Topo_Utillities	Topo_Vegetation
Contours	
Index Contours	Intermediate Contours
Proposed Index Contours	Proposed Intermediate Contours

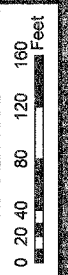
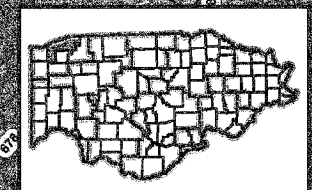
DESIGNED - GAGLIANO	REVISED -	REVISED -
DRAWN -	REVISED -	REVISED -
CHECKED -	REVISED -	REVISED -
DATE - 11/8/2007	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 43 OVER
TINLEY CREEK CULVERT**

SCALE: 1" = 898' SHEET NO. OF SHEETS STA. TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(1214 & 3127-1) RS-1	COOK	84	44
CONTRACT NO. 82343				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



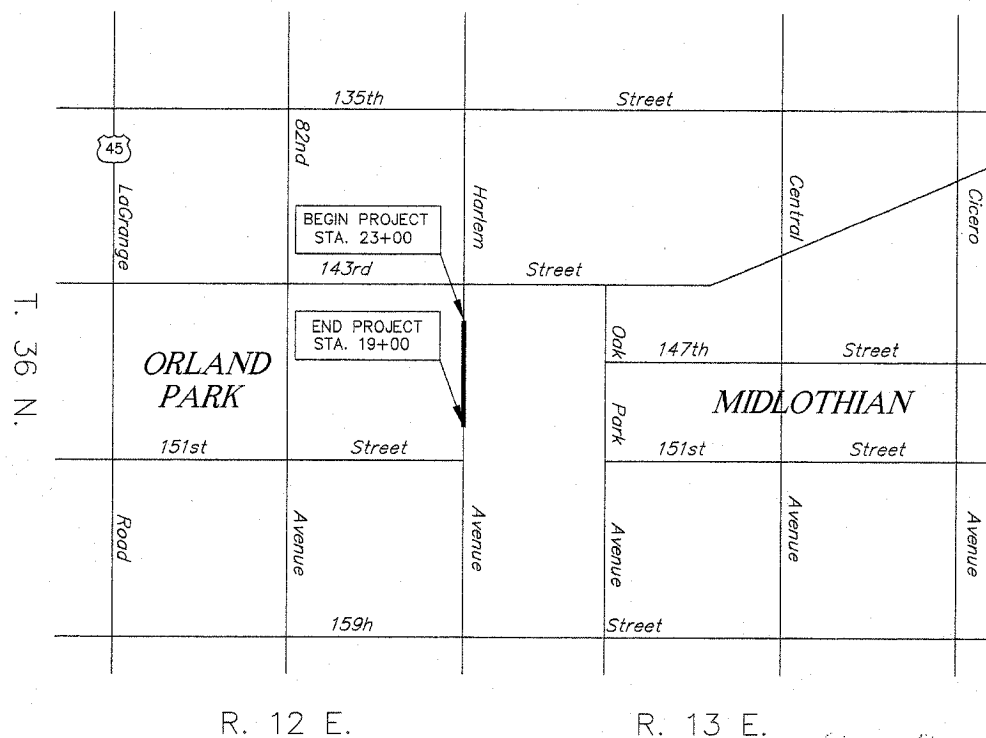
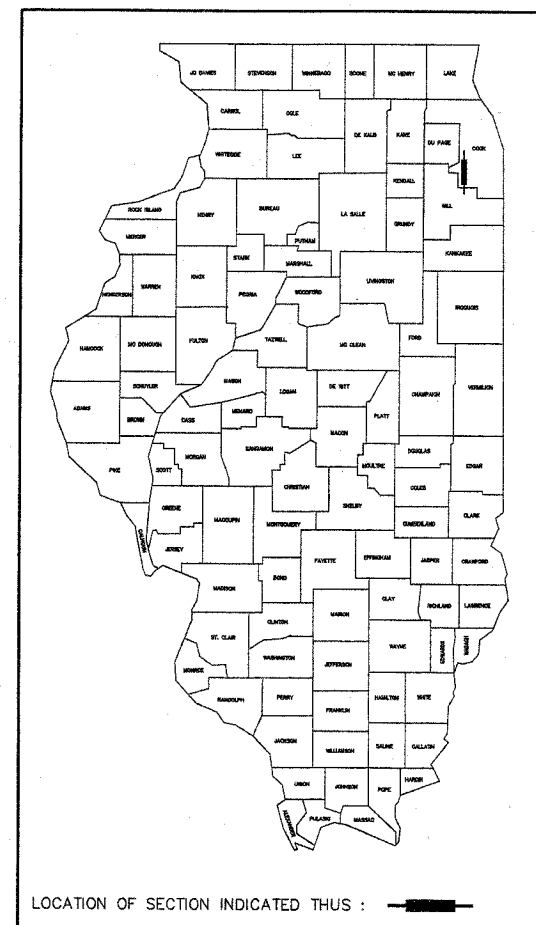
CONTRACT NO. 62343

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* #	COOK	25	45

F.H.W.A. REG. ILLINOIS PROJECT *FAP 348 (IL 43) * (124#-5127-1)RS-1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLANS
**FOR PROPOSED
FEDERAL AID HIGHWAY**

ROUTE : FAP 348 (IL 43)
SECTION : OVER TINLEY CREEK
PROJECT NO. :
JOB NO. : R-90-014-01
COUNTY : COOK
LIMITS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____
DISTRICT ENGINEER

EXAMINED _____ 20 _____
DISTRICT RIGHT OF WAY PLANS ENGINEER

PASSED _____ 20 _____
DISTRICT LAND ACQUISITION ENGINEER

REVIEWED _____ 20 _____
CENTRAL BUREAU RIGHT OF WAY PLANS ENGINEER

APPROVED _____ 20 _____
ENGINEER OF LAND ACQUISITION

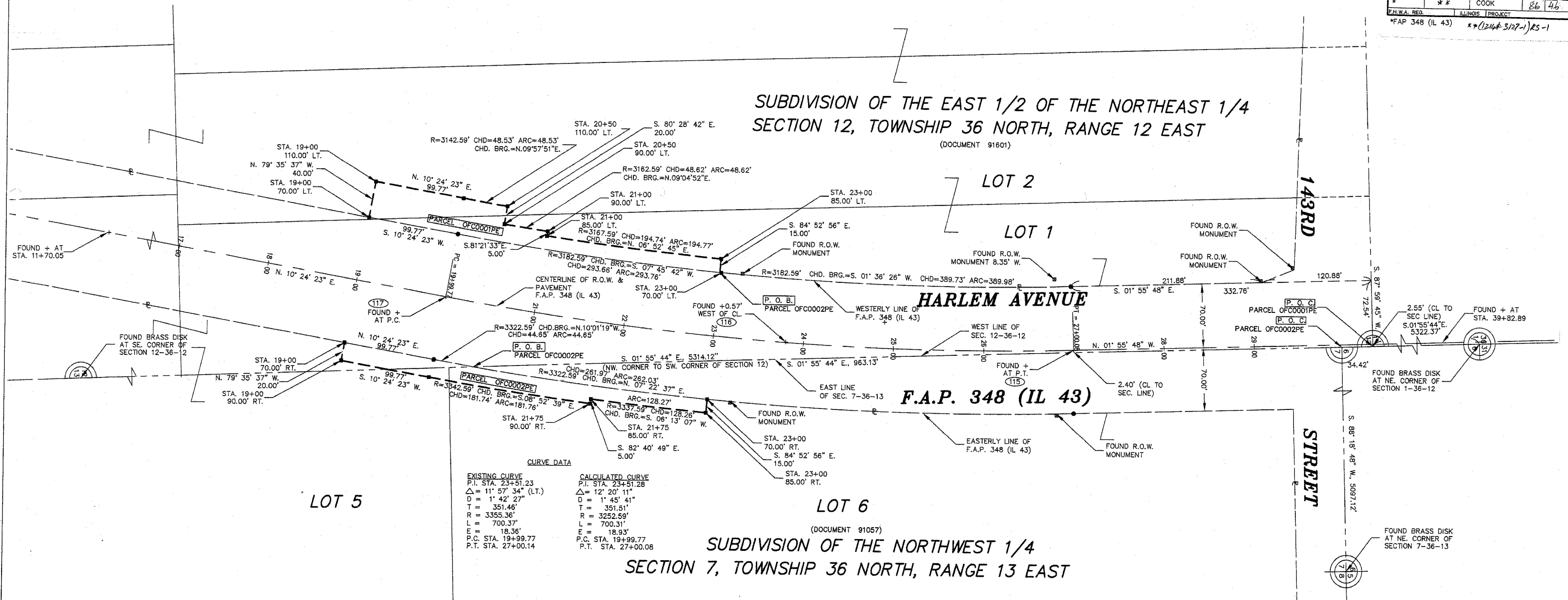
PROJECT LENGTH = 400 L.F. = 0.076 MILE, FAP 348 (IL 43)

**PART OF THE NE.1/4 OF SEC. 12, T. 36 N., R.12 E. & PART OF THE NW.1/4 OF SEC. 7, T.36 N., R. 13 E. OF THE 3rd P.M.,
IN COOK COUNTY, ILLINOIS.**

CONTRACT NO. 62343

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* #	COOK	86	46
I.H.W.A. REG.		ILLINOIS PROJECT		
*FAP 348 (IL 43)		* (1244 3/127-1) R5-1		

SUBDIVISION OF THE EAST 1/2 OF THE NORTHEAST 1/4 SECTION 12, TOWNSHIP 36 NORTH, RANGE 12 EAST
(DOCUMENT 91601)

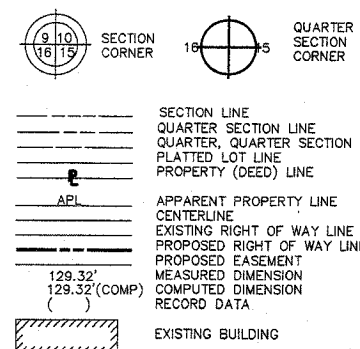


LOT 5

LOT 6

SUBDIVISION OF THE NORTHWEST 1/4 SECTION 7, TOWNSHIP 36 NORTH, RANGE 13 EAST
(DOCUMENT 91057)

LEGEND



- IRON PIPE OR ROD FOUND REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
COUNTY OF DU PAGE)

THIS IS TO CERTIFY THAT ROBERT W. STASIK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 12, TOWNSHIP 36 NORTH, RANGE 12 EAST AND SECTION 7, TOWNSHIP 36 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 29th DAY OF JULY, 2008 A.D.
C. M. LAVOIE & ASSOCIATES, INC.
633 ROGERS STREET
DOWNERS GROVE, ILLINOIS



PARCEL NO.	OWNER	TOTAL HOLDING ACRES SQ. FT.	PART TAKEN ACRES SQ. FT.	REMAINDER ACRES SQ. FT.	PREV. DED. ACRES SQ. FT.	EASEMENT ACRES SQ. FT.	EASEMENT	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
0FC0001PE	FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS	N/A	N/A	N/A	N/A	0.226 9848	GRADING	27-12-204-002	
0FC0002PE	FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS	N/A	N/A	N/A	N/A	0.172 7506	GRADING	27-12-204-002 & 28-07-100-001	

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAU 348 (IL 43)

SECTION : OVER TINLEY CREEK COOK COUNTY
PROJECT JOB NO. R-90-014-01
STATION 19+00 TO STATION 23+00
SCALE: 1"=50' SHEET 2 OF 4

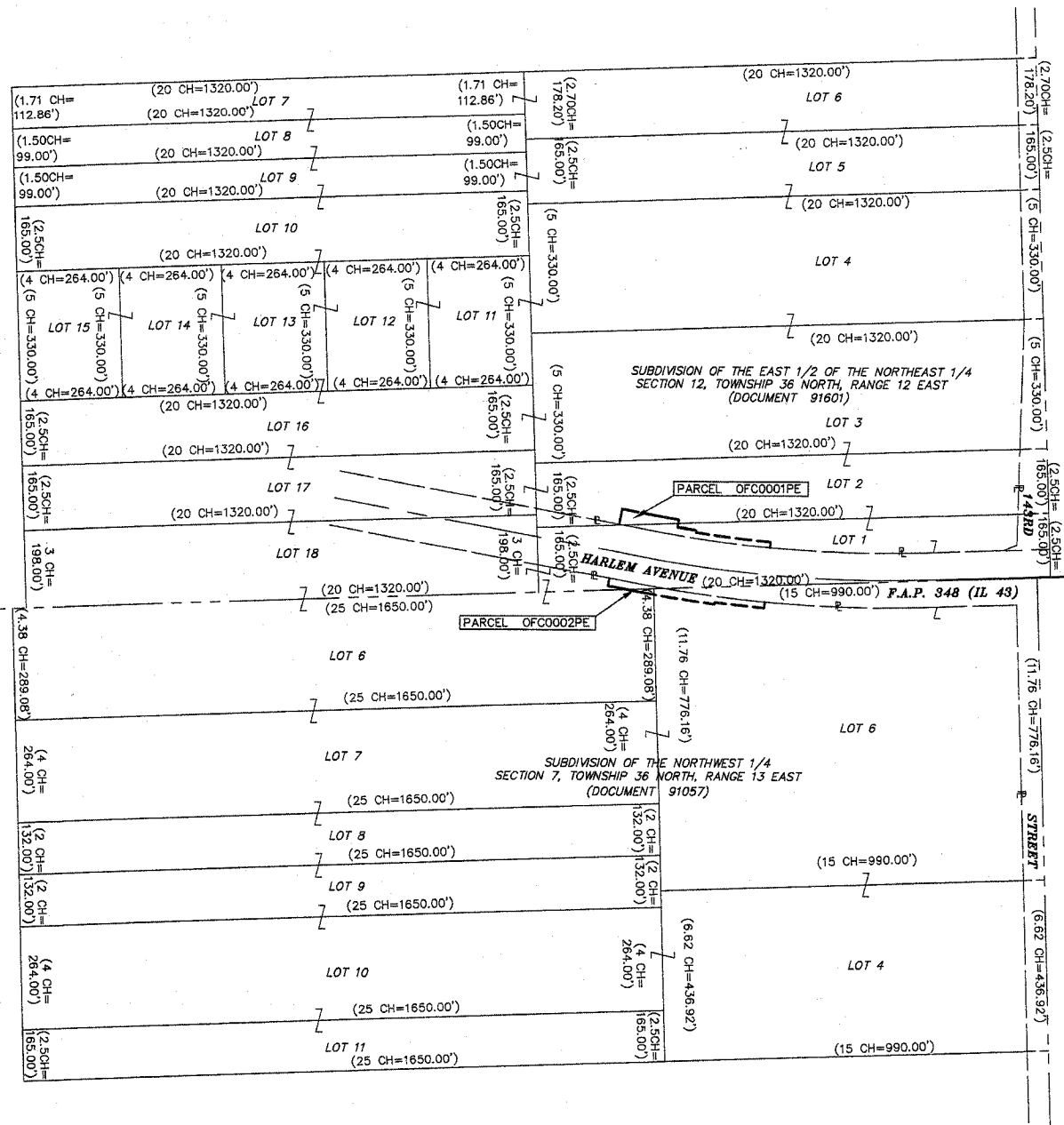
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE	REVISION	MADE BY

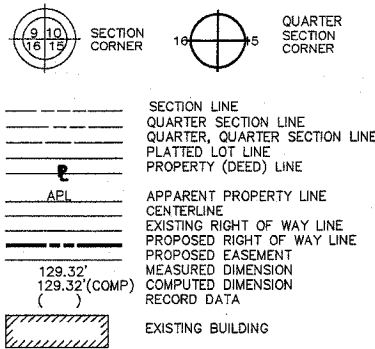
PART OF THE NE.1/4 OF SEC. 12, T. 36 N., R.12 E. & PART OF THE NW.1/4 OF SEC. 7, T.36 N., R. 13 E. OF THE 3rd P.M.,
IN COOK COUNTY, ILLINOIS.

CONTRACT NO. 62343

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	COOK	86	47
I.L.L.I.N.O.I.S. PROJECT				
*FAP 348 (IL 43) ** (214# 3127-1) RS-1				



LEGEND



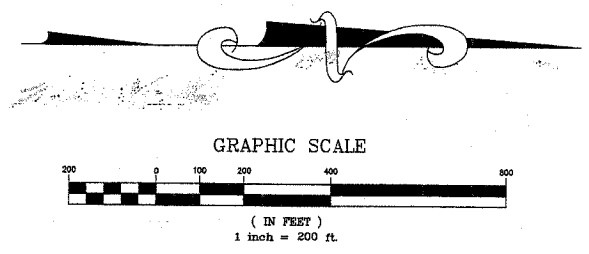
- IRON PIPE OR ROD FOUND REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.



STATE OF ILLINOIS }
COUNTY OF DU PAGE }SS

THIS IS TO CERTIFY THAT ROBERT W. STASIK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 12, TOWNSHIP 36 NORTH, RANGE 12 EAST AND SECTION 7, TOWNSHIP 36 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 29th DAY OF JULY, 2002, D.
C. M. LAVOIE & ASSOCIATES, INC.
633 ROGERS STREET
DOWNERS GROVE, ILLINOIS



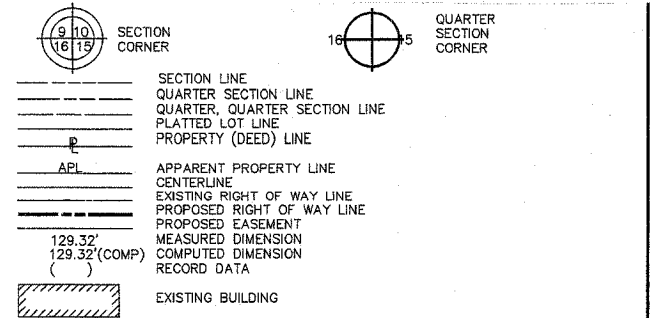
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAU 348 (IL 43)
SECTION : OVER TINLEY CREEK COOK COUNTY
PROJECT STATION 19+00 TO STATION 23+00
JOB NO. R-90-014-01
SCALE: 1"=100' SHEET 3 OF 4
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE	REVISION	MADE BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	COOK	86	48
*F.A.P. REG.		ILLINOIS PROJECT		

*FAP 348 (IL 43) * (124# 3/27-1) RS-1

LEGEND



- O IRON PIPE OR ROD FOUND REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH
- T2 IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY
- T3 COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONU-
- BT2 MENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE
- BT3 FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SUR-
VEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY
MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION
DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8
INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY
MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEY-
ORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
COUNTY OF DU PAGE)SS

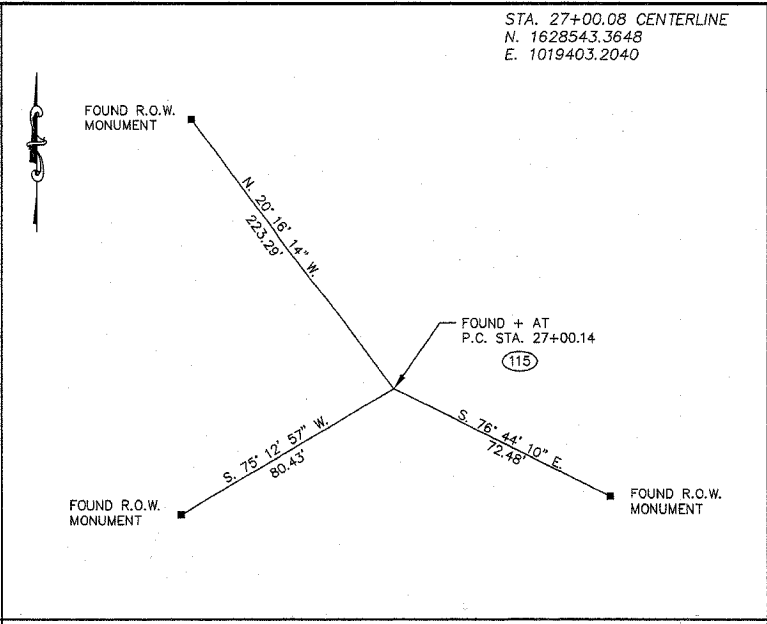
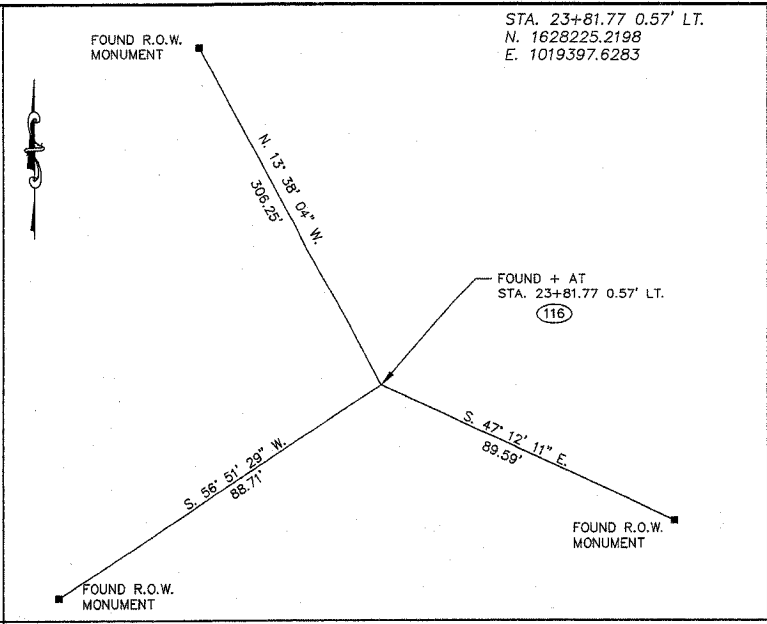
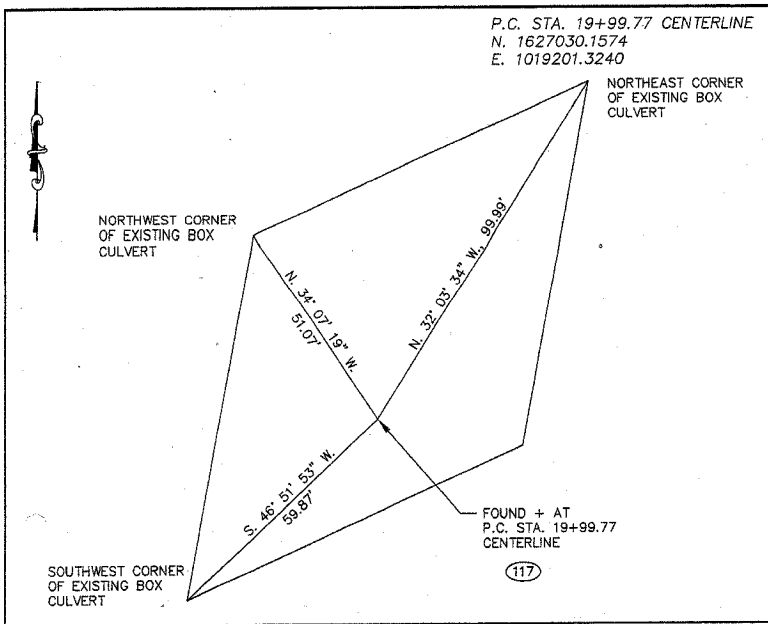
THIS IS TO CERTIFY THAT ROBERT W. STASIK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 12, TOWNSHIP 36 NORTH, RANGE 12 EAST AND SECTION 7, TOWNSHIP 36 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 27TH DAY OF JULY, 2002 A.D.
Robert W. Stasik
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2322
TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE EMBOSSED SEAL



C. M. LAVOIE & ASSOCIATES, INC.
633 ROGERS STREET
DOWNERS GROVE, ILLINOIS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAU 3727 (Dempster Street)
SECTION : OVER TINLEY CREEK COOK COUNTY
PROJECT JOB NO. R90-014-01
STATION 19+00 TO STATION 23+00
SCALE: NONE SHEET 4 OF 4



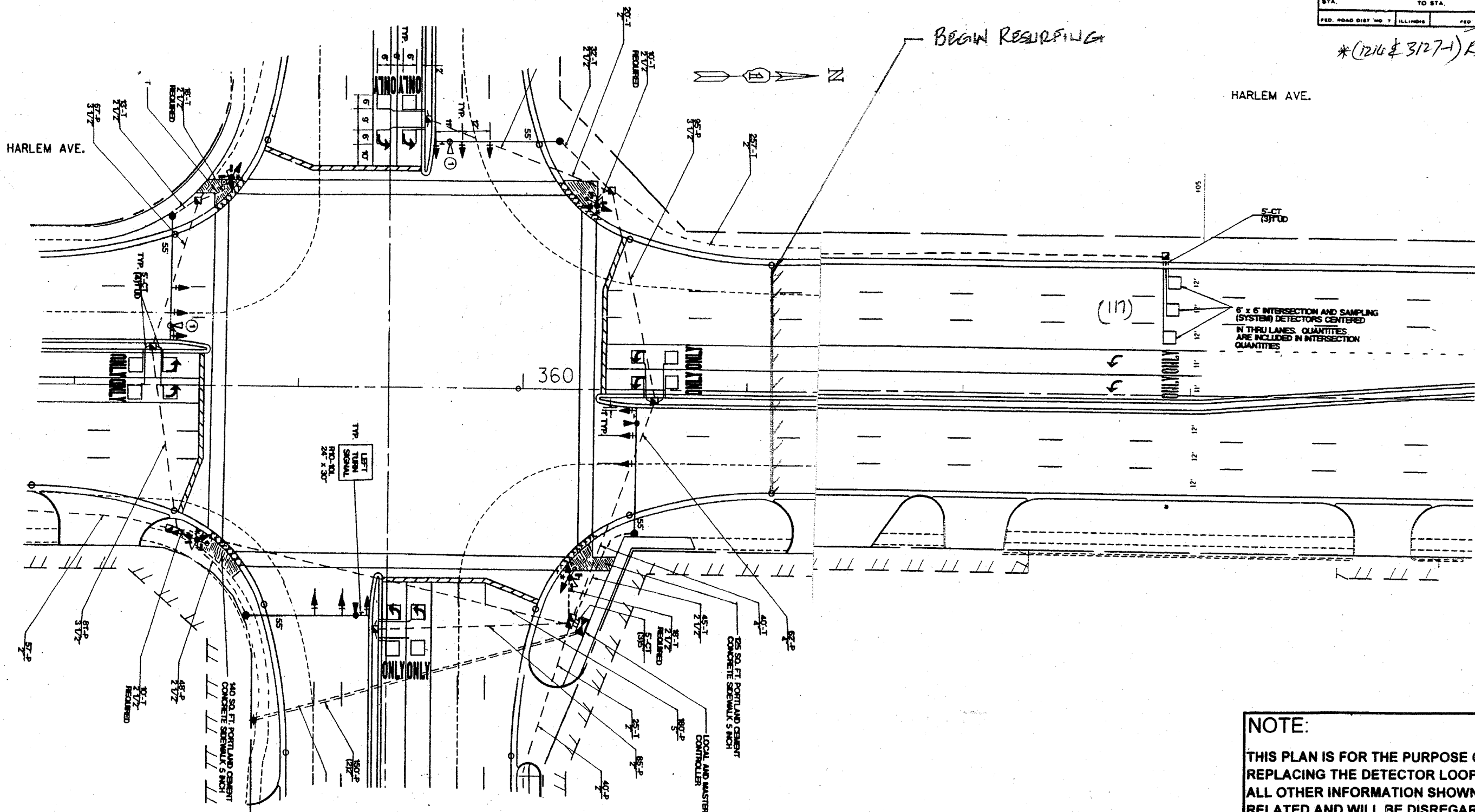
REVISION DATE	REVISION	MADE BY

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

CONTRACT # 02343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348 *	COOK	86	50
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS	
		FED. AID PROJECT	

*(1214 & 3127-1) RS-1



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	117	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

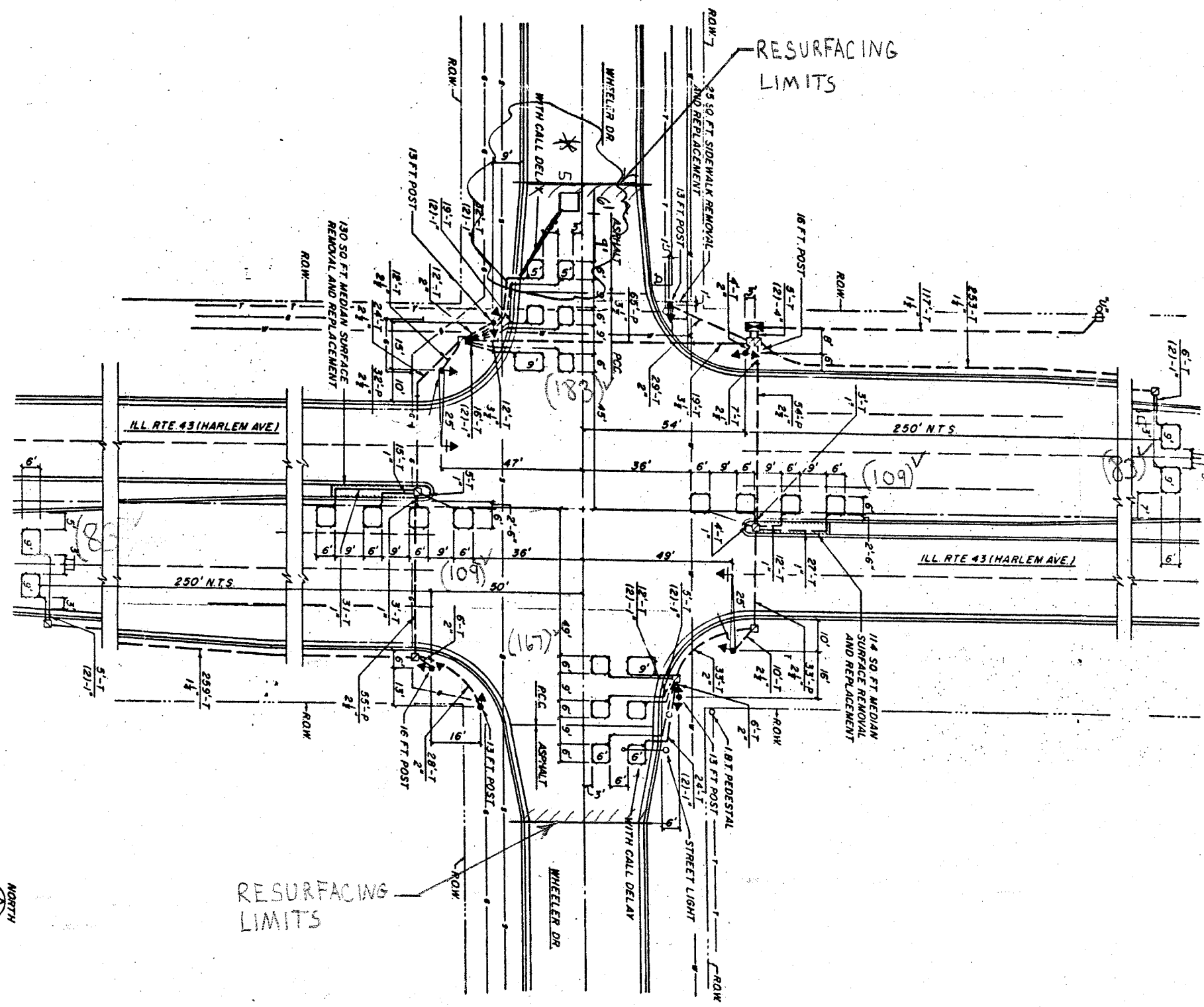
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ US RTE. 6 (159TH ST)
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: JHE
 DAD

2/10

CONTRACT # 62343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	COOK	86	52
STA. TO STA.		FED. ROAD DIST NO. 7 ILLINOIS FED. AID PROJECT	

*(12443/27-1)RS-1



NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	734	Foot	Detector Loop Replacement

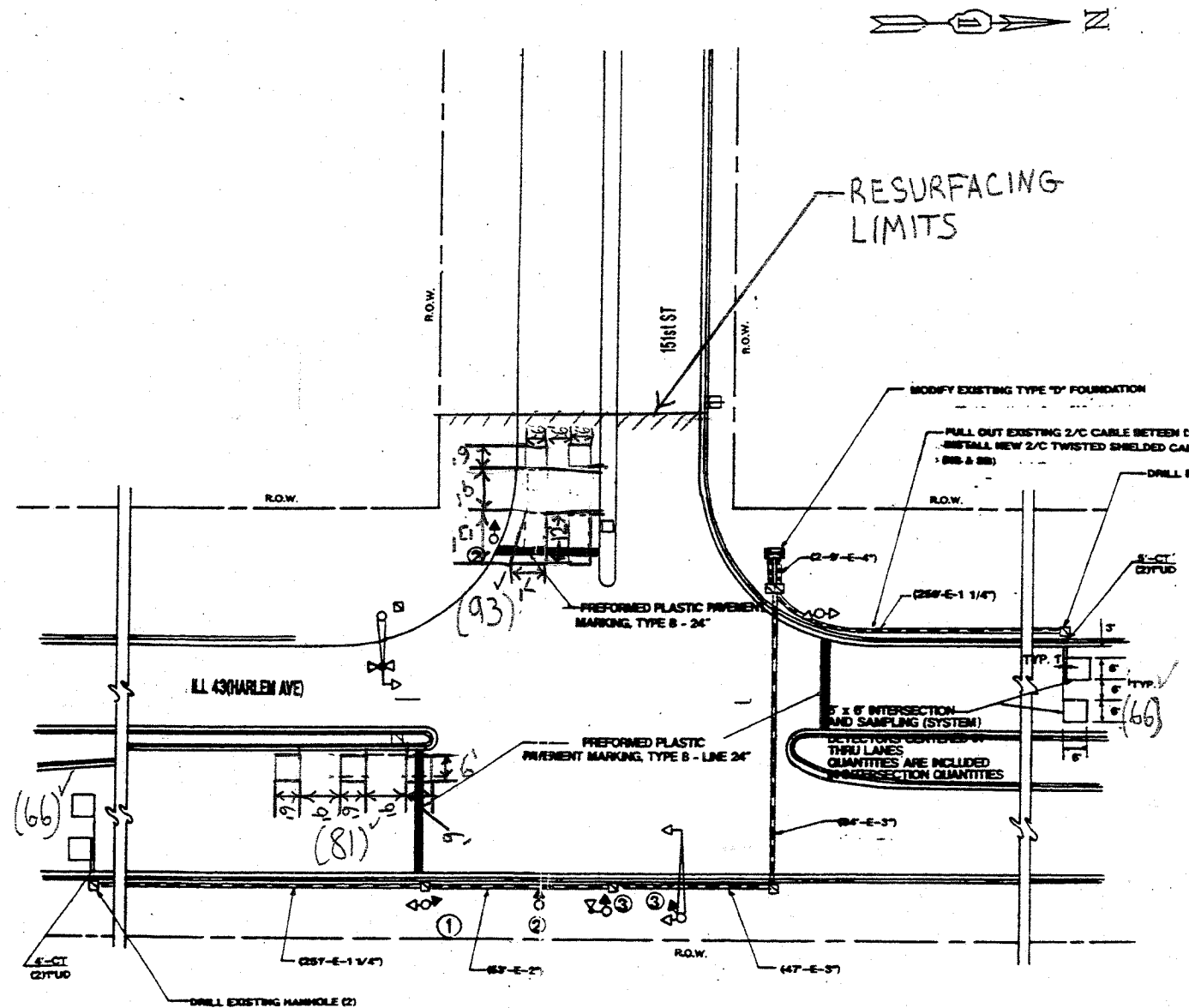
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ WHEELER RD
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD

CONTRACT # 62347

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
348 *	COOK	86	53
STA. TO STA.		FED. ROAD DIST NO 1 ILLINOIS	
		FED AID PROJECT	

*(1214 & 3127-1) RS-1



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	306	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

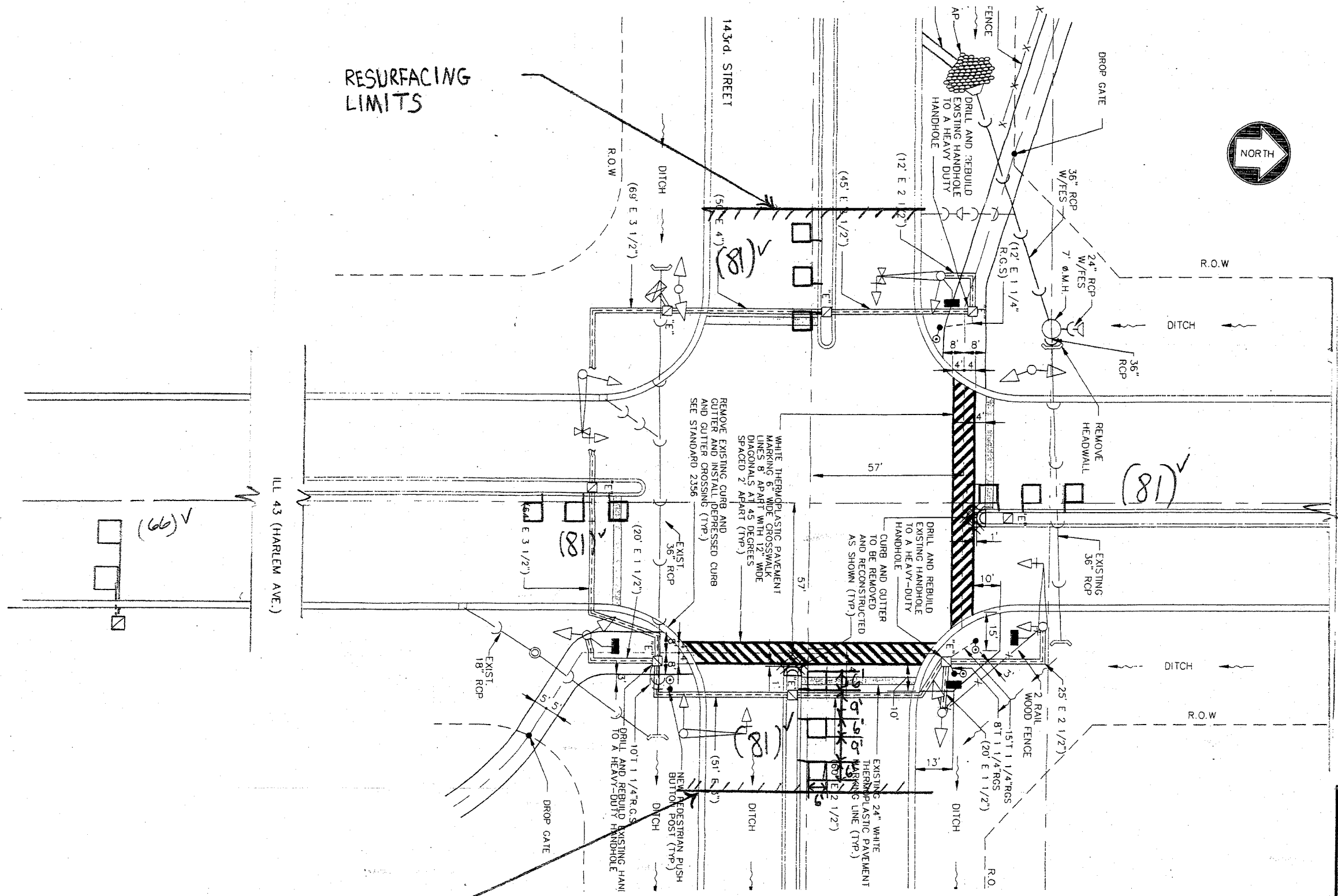
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 151ST STREET
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD.

5/15

CONTRACT # 62843

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	LOOK	86	54
TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			

*(1214#3127-1)RS-1



NOTE:
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ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 143RD STREET

SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: JHE
 D.A.D.

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	456	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

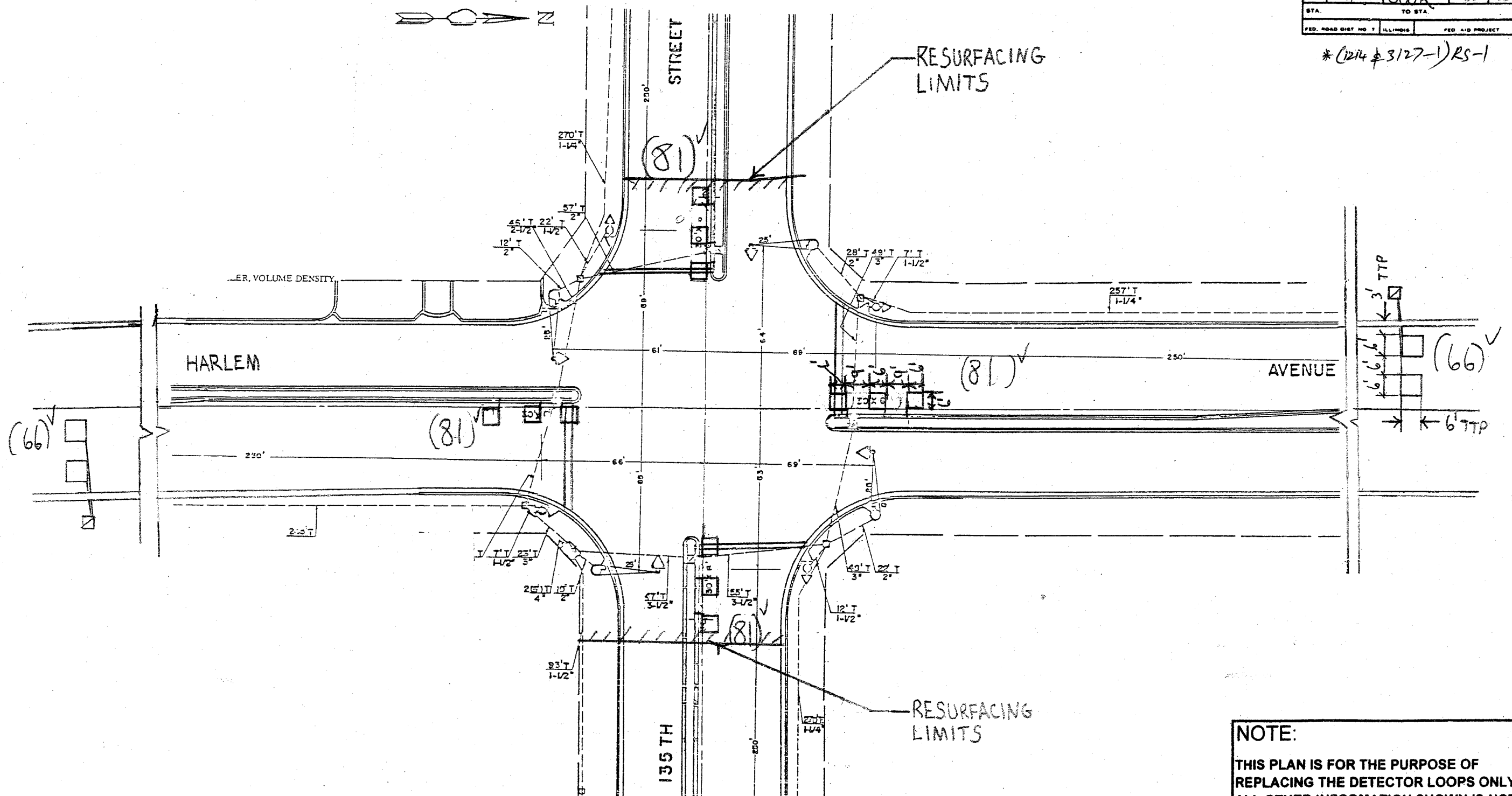
RESURFACING LIMITS

RESURFACING LIMITS

CONTRACT # 62343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
348	Cook	86	55
STA.	TO STA.		
	ILLINOIS		FED. AID PROJECT

*(1214 & 3127-1)RS-1



NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	456	Foot	Detector Loop Replacement

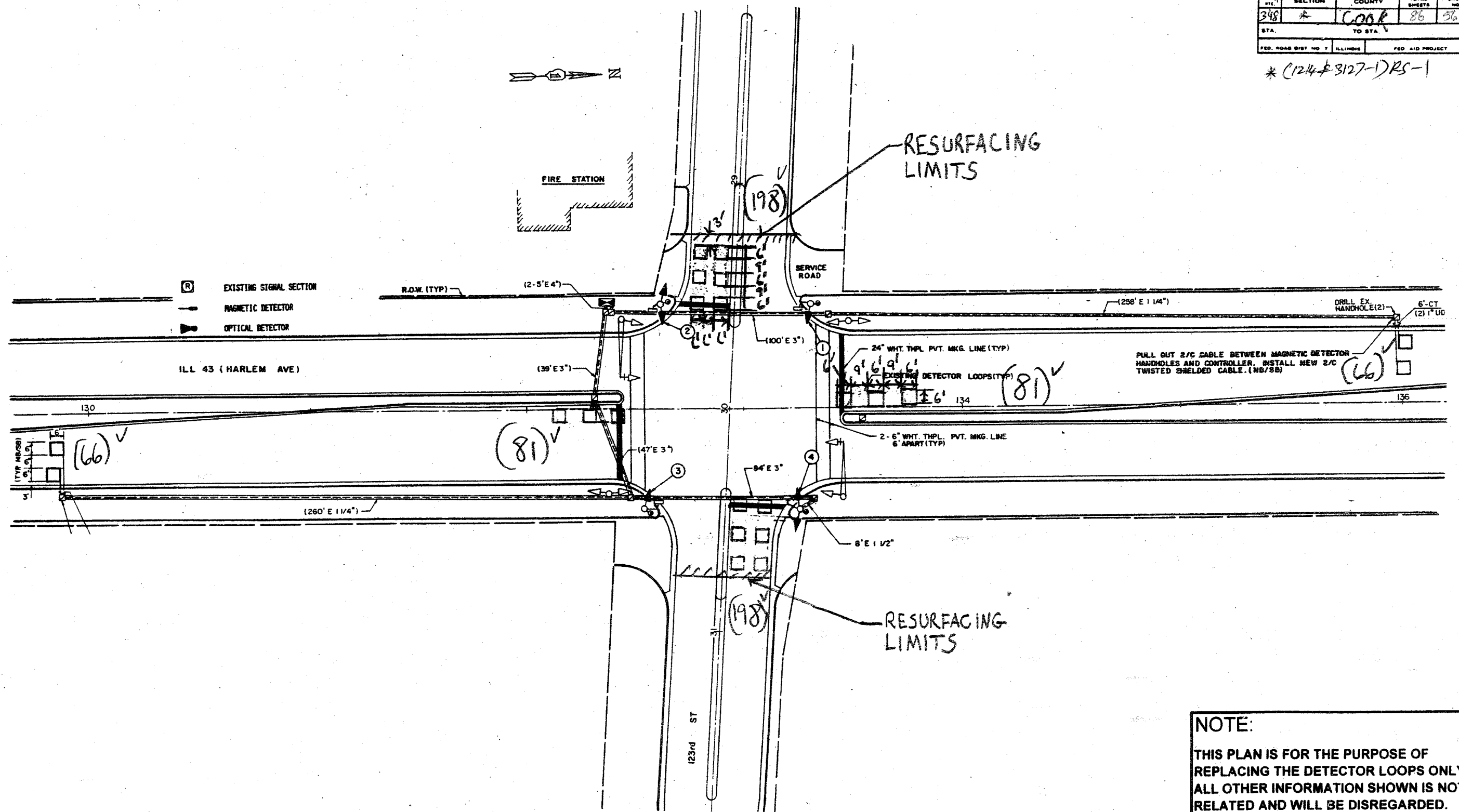
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE 43 @ 135TH STREET
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: D.A.D.

CONTRACT # 12343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	COOK	86	36
STA.	TO STA.	FED. ROAD DIST NO 7 ILLINOIS	
		FED AID PROJECT	

* (124#3127-1)RS-1



- Ⓜ EXISTING SIGNAL SECTION
- MAGNETIC DETECTOR
- ▶ OPTICAL DETECTOR

FULL OUT 2/C CABLE BETWEEN MAGNETIC DETECTOR HANDHOLES AND CONTROLLER. INSTALL NEW 2/C TWISTED SHIELDED CABLE. (NB/SB)

NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	690	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

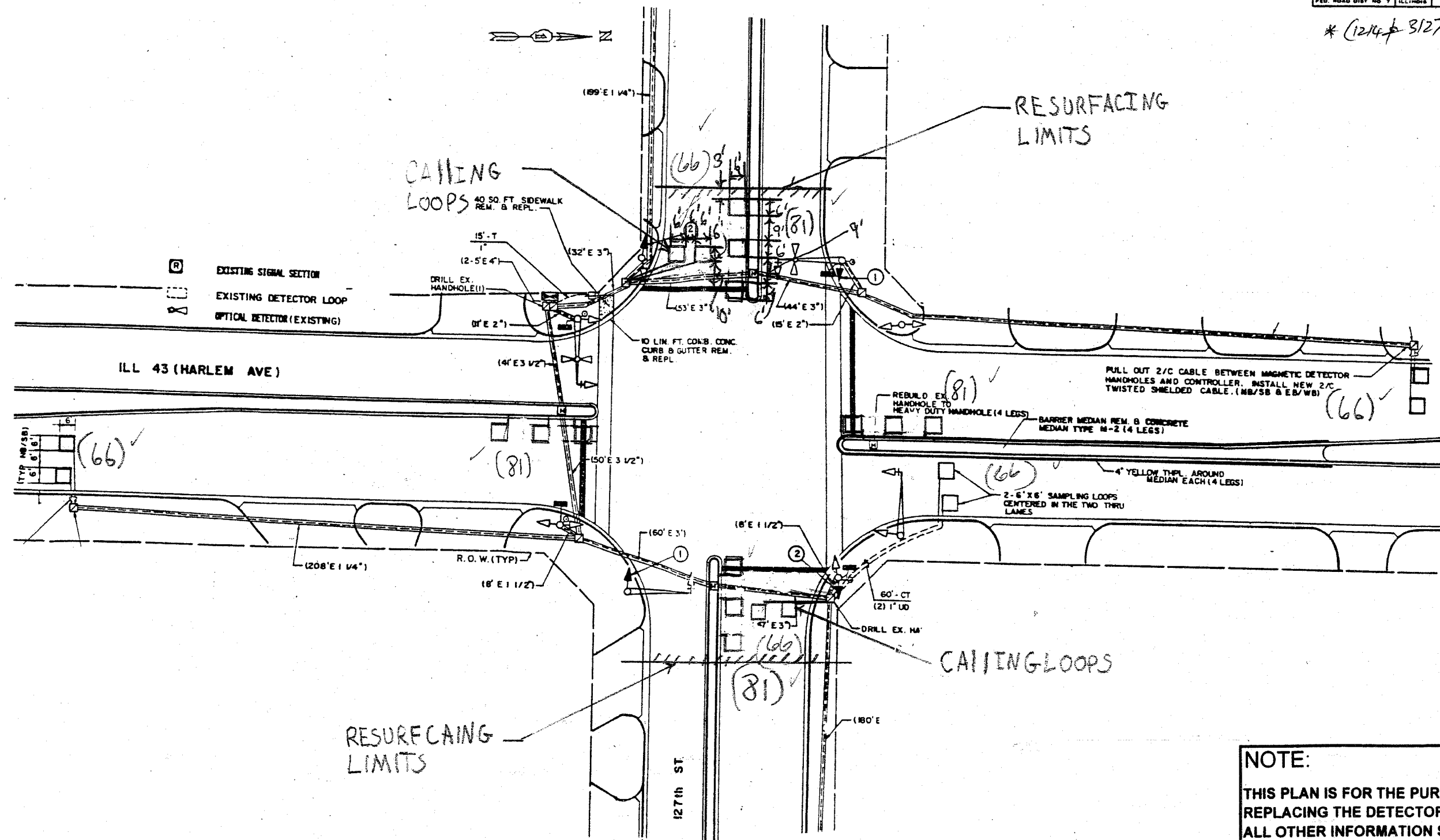
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL RTE 43 @ 123rd STREET
SCALE: NONE
DATE: MAY 2007
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: D.A.D.

8/15 56

CONTRACT # 62343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
348	* COOK	86	57
STA. TO STA.		FED. ROAD DIST NO 7 ILLINOIS	
		FED AID PROJECT	

* (1214 & 3127-1) R5-1



NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	654	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

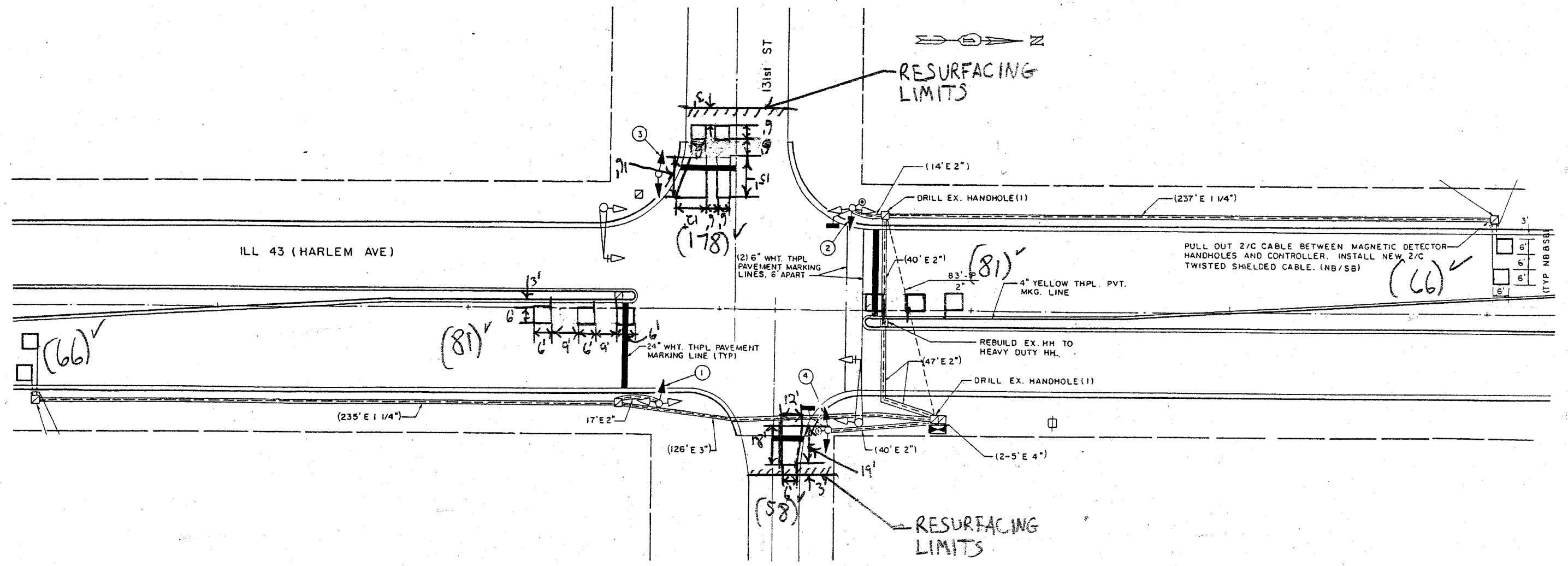
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL RTE 43 @ 127TH STREET

SCALE: NONE
 DATE: MAY 2007

DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD.

9/15/07

* (1214 & 3127-1) RS-1



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	530	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 131ST STREET

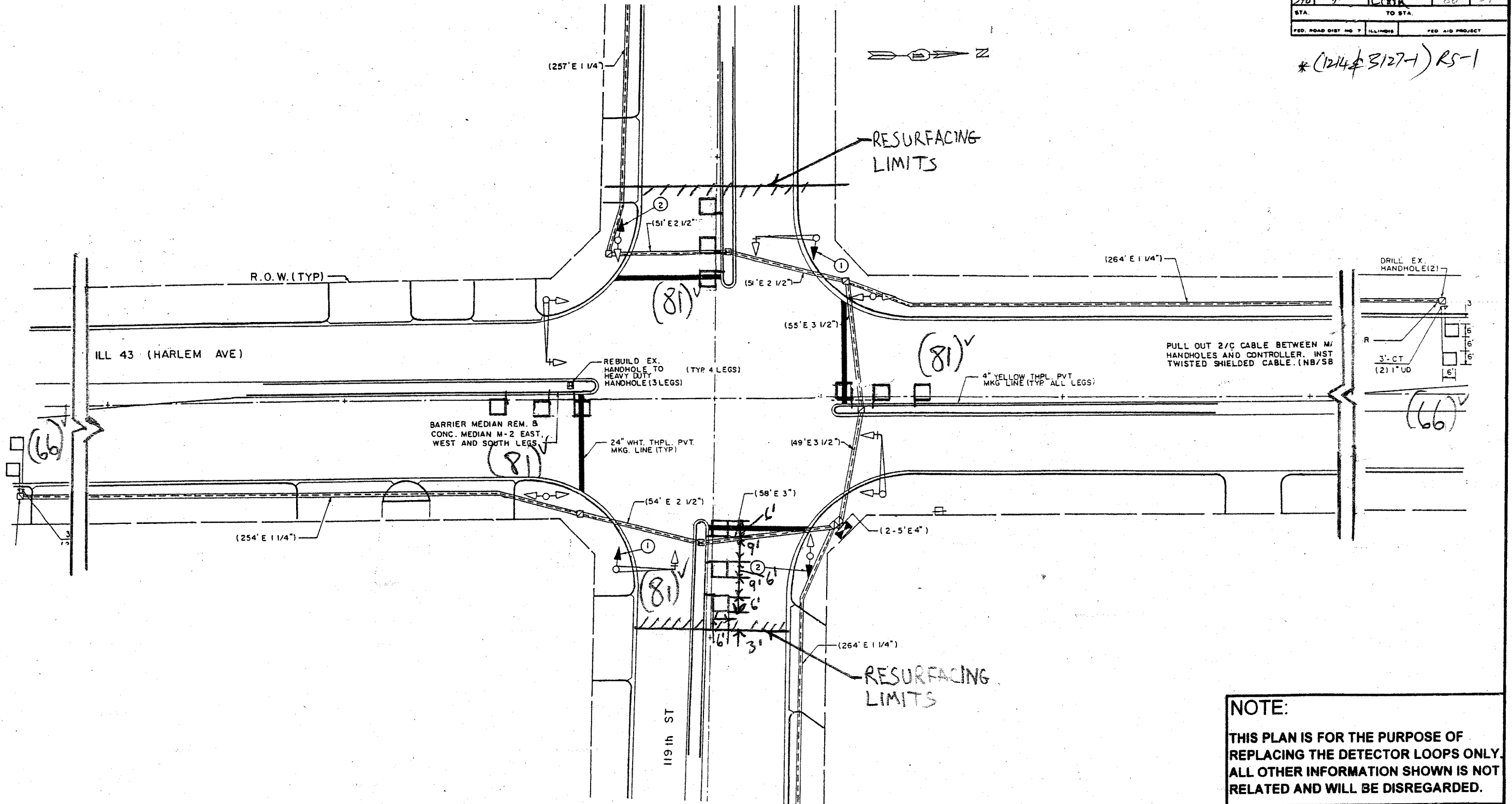
SCALE: NONE
 DATE: MAY 2007

DRAWN BY: J.H.E.
 DESIGNED BY: J.H.E.
 CHECKED BY: D.A.D.

CONTRACT # 62843

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
348 *	Cook	86	59
STA. TO STA.		FED. ROAD DIST NO 7 ILLINOIS	
		FED AID PROJECT	

*(1214#3127-1) R5-1



NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	456	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

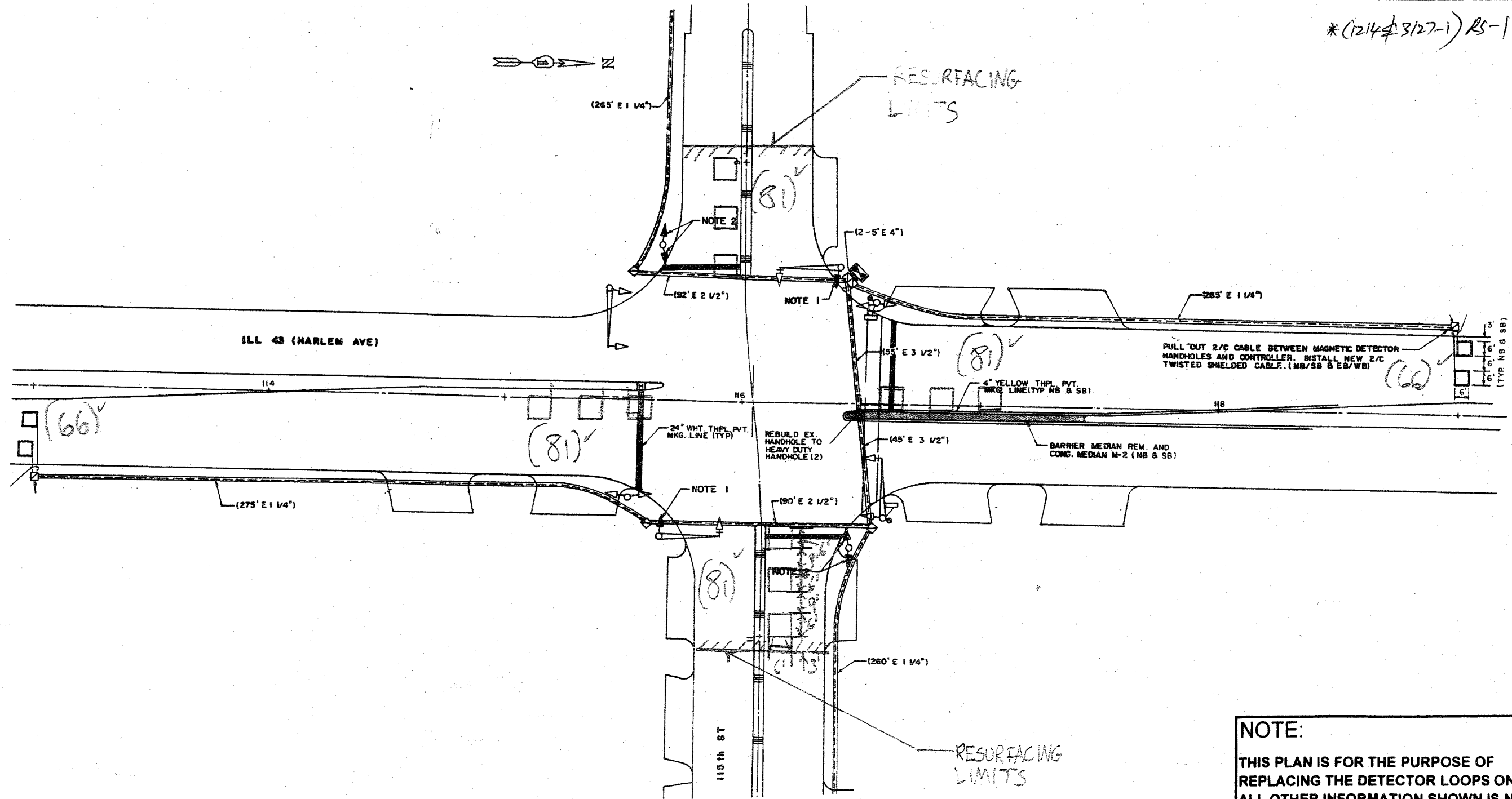
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 119th STREET
 SCALE: AS SHOWN
 DATE: 11/15
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: D.A.D.

11/15 59

CONTRACT # 62343

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348 *	COOK	86	60
STA. TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT	

*(1214 3/27-1) RS-1



NOTE:
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REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	456	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

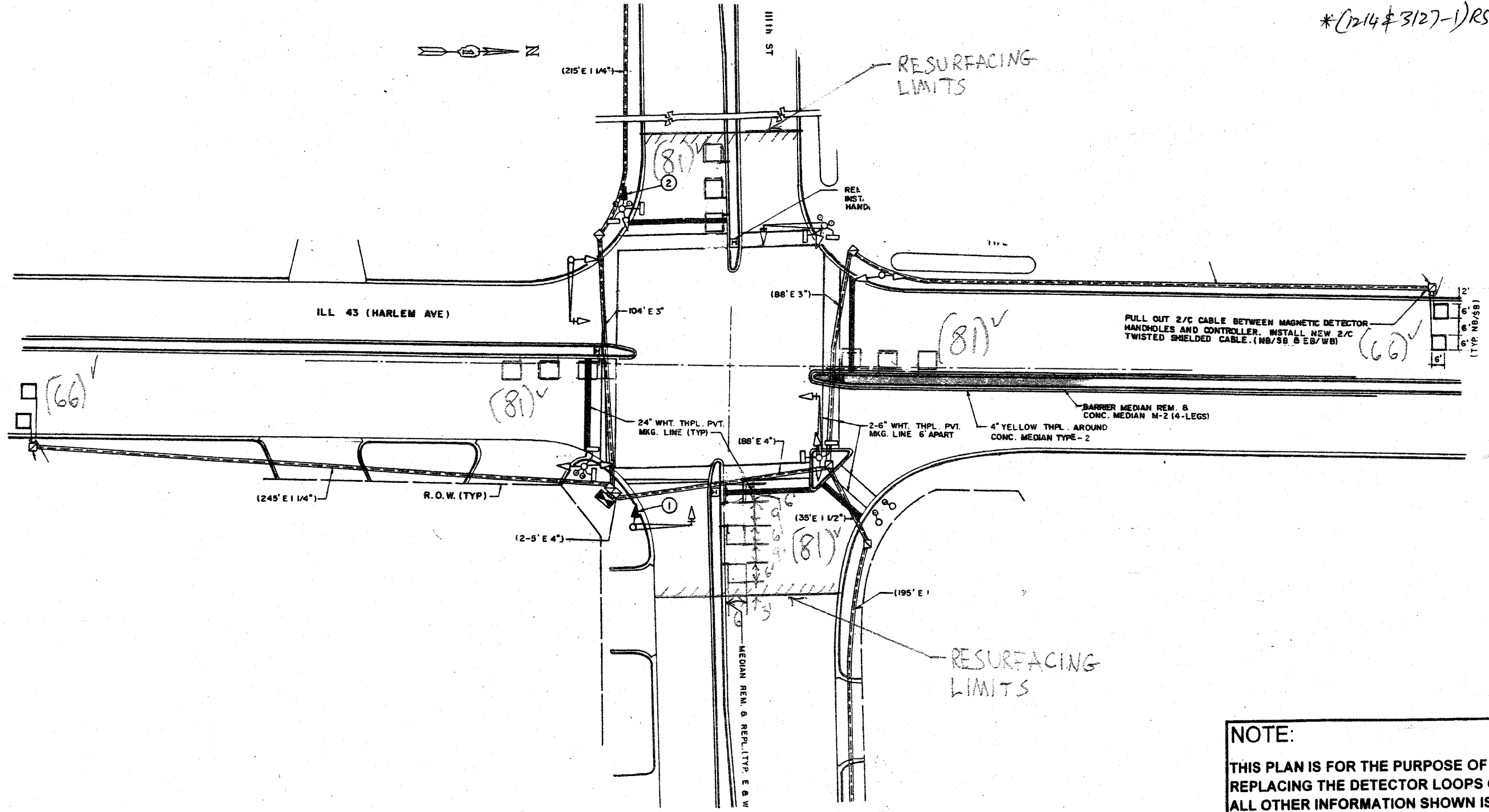
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 115th STREET
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD.

12/15

CONTRACT # 62302

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	COOK	86	61
STA.		TO STA.	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT

*(1214 & 3127)-1)RS-1



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	456	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 43 @ 111TH STREET
 SCALE: NONE
 DATE: MAY 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD.

13/15

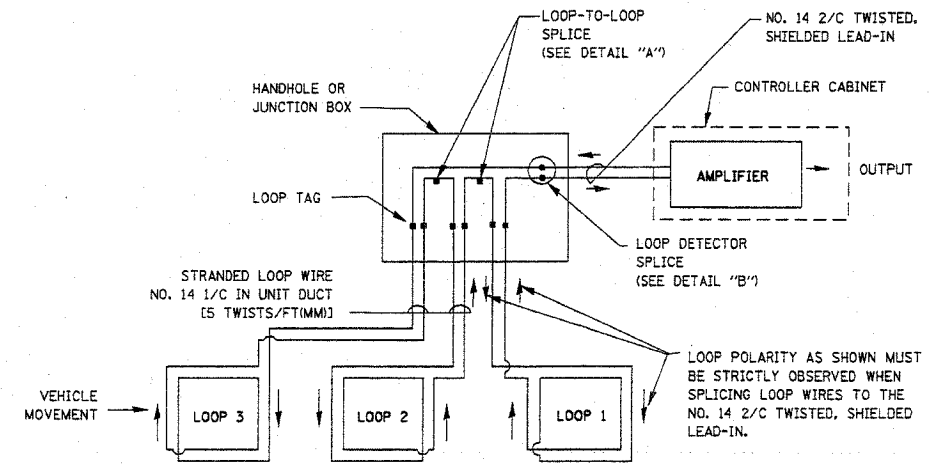
CONTRACT # 62 543

F.A.P. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
248	1	Cook	86	62
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

*(1214/3127-1)RS-1

LOOP DETECTOR NOTES

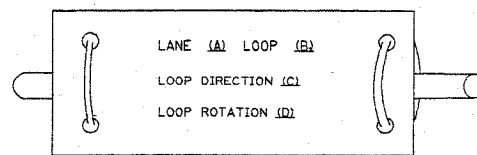
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



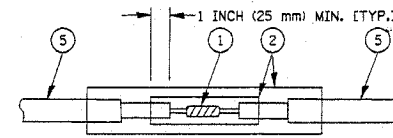
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

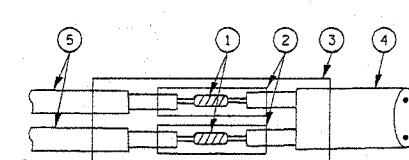
LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

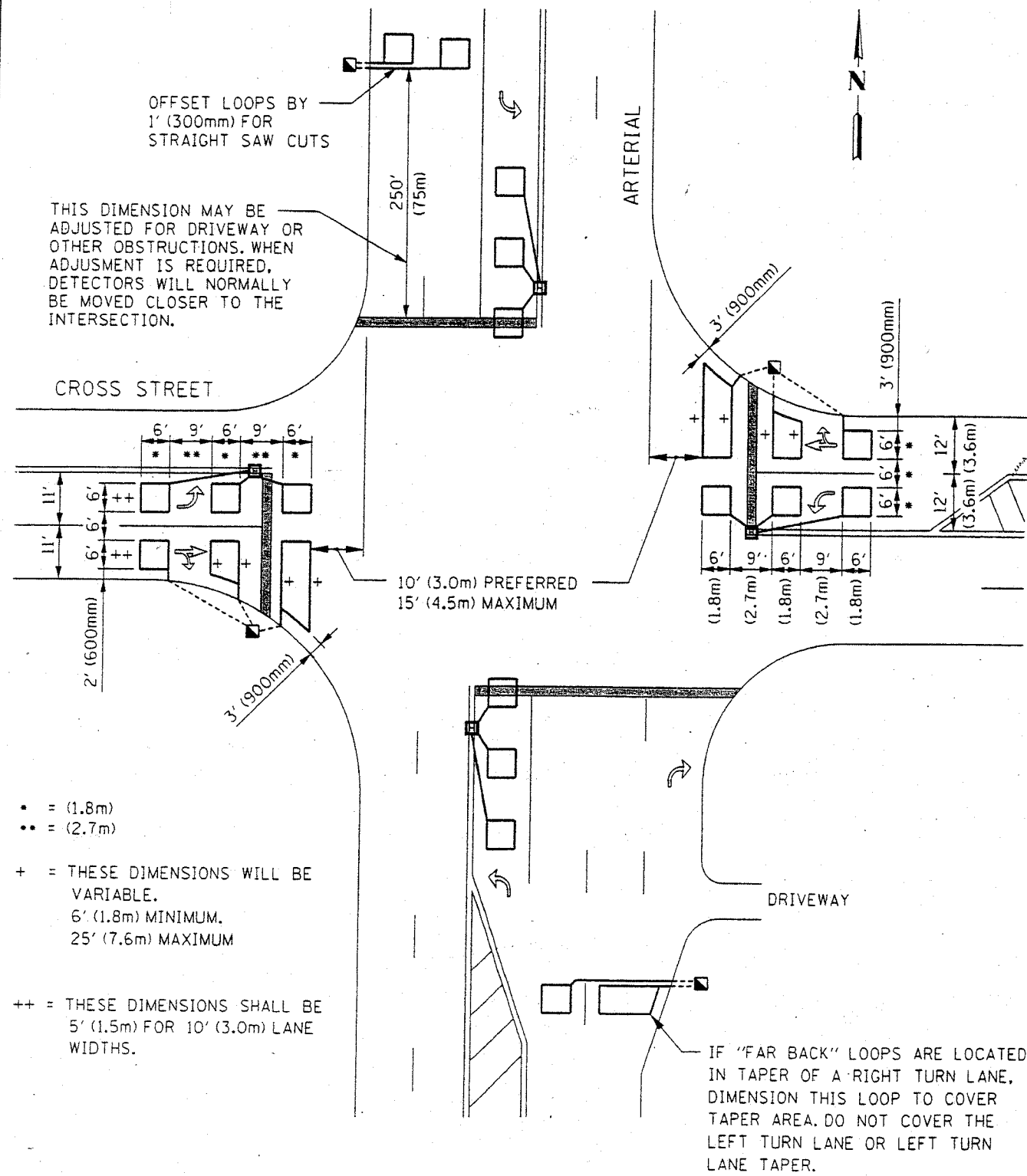
VERT. NONE
SCALE: HORIZ
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	88	63
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

* (1214&3127-1)RS-1

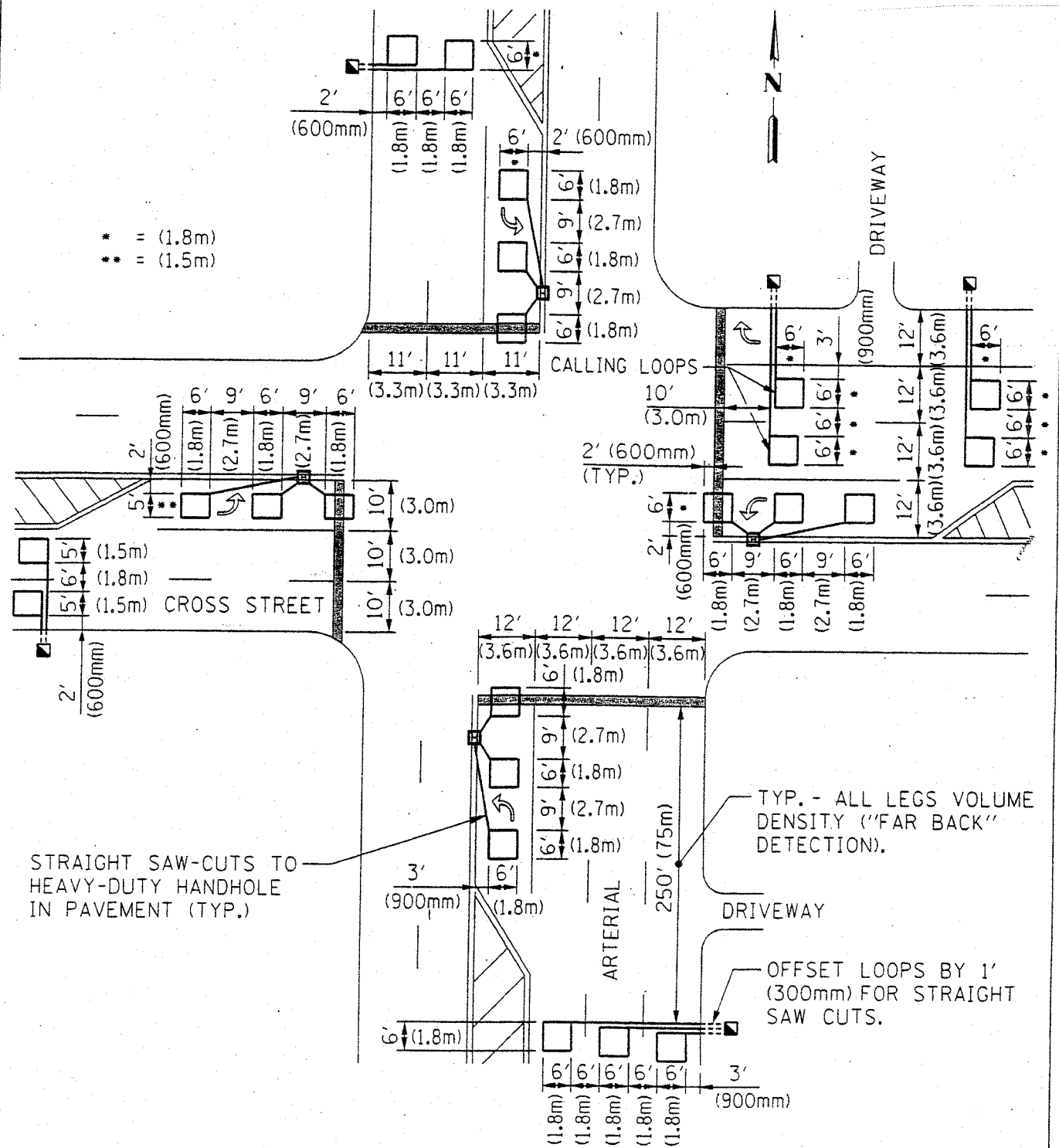
ARTERIAL-VOLUME DENSITY ("FAR BACK" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



- = (1.8m)
- = (2.7m)
- + = THESE DIMENSIONS WILL BE VARIABLE.
6' (1.8m) MINIMUM.
25' (7.6m) MAXIMUM
- ++ = THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS.

N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR BACK" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR BACK" DETECTION)

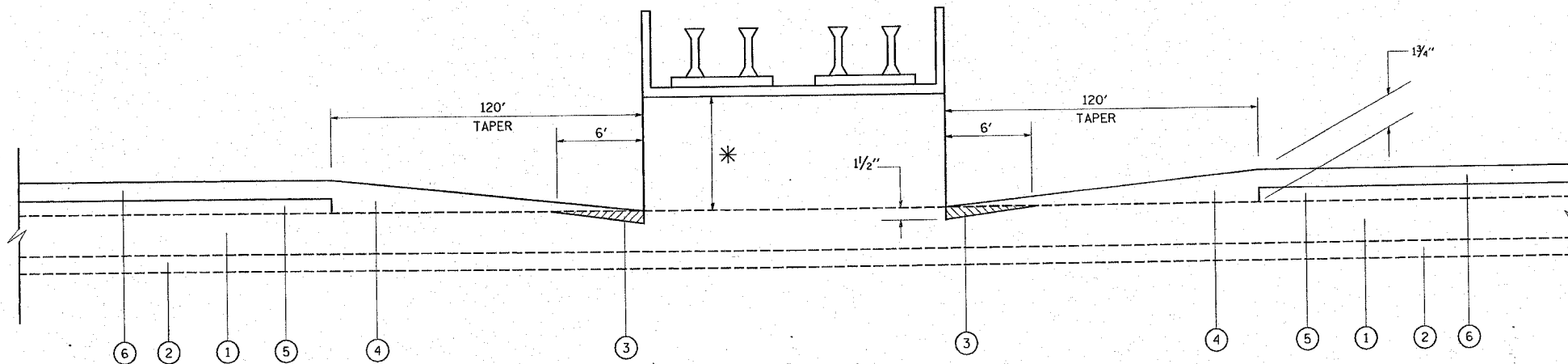


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE, (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT).

N.T.S.

CONTRACT NO. 62343				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	64
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(1214 & 3127-1) RS-1				

NORFOLK AND WESTERN RAILROAD
CROSSING OVER IL-43 (HARLEM AVE.)
AND 111TH STREET



- * EXISTING CLEARANCE HEIGHT MAINTAINED SAME. (NO HMA OVERLAY UNDER THE R.R. BRIDGE)
- CONCRETE PATCHING UNDER THE R.R. BRIDGE WILL BE DETERMINED BY R.E. IN THE FIELD

RESURFACING DETAILS
AT
RAILROAD BRIDGE CROSSING
OVER IL-43 (HARLEM AVE) & 111TH ST.

LEGEND

- ① EXISTING CONCRETE PAVEMENT
- ② EXISTING STABILIZED SUB-BASE, 4"
- ③ PROPOSED P.C.C. SURFACE REMOVAL (VARIABLE DEPTH), 0"-1 1/2"
- ④ PROPOSED POLYMEIZED HMA SURFACE COURSE MIX 'F', N90, (VARIEABLE DEPTH), 1 3/4" TO 1 1/2"
- ⑤ PROPOSED POLYMEIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑥ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX 'F', N90, 1 3/4"

PLOT DATE = 12/5/2007
FILE NAME = c:\projects\111th\111th_rsd.dgn
USER NAME = drakecsgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

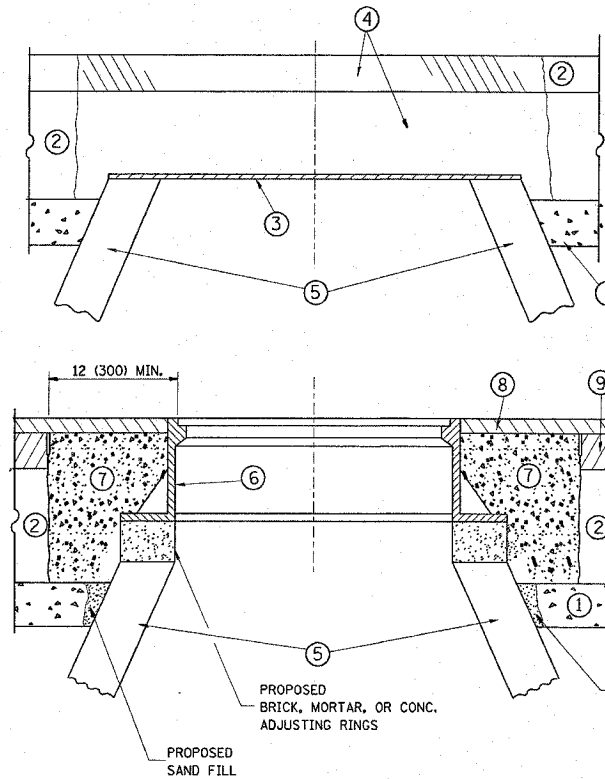
RESURFACING DETAILS
AT RAIL ROAD BRIDGE CROSSING
OVER IL-43 (HARLEM AVE.) & 111TH STREET

SCALE: VERT. NONE
HORIZ. DATE 12/5/2007

DRAWN BY
CHECKED BY

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	65
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

* (121483127-1)RS-1



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 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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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 SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ARBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

SCALE: VERT. NONE
HORIZ.

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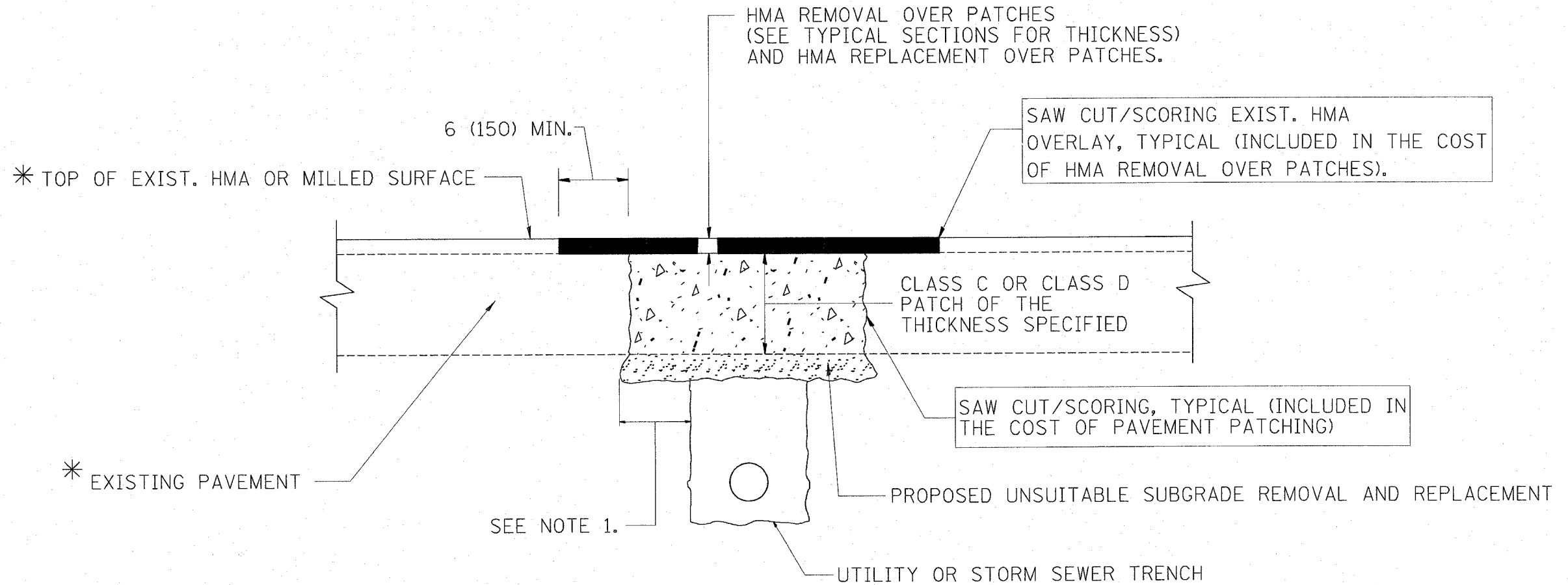
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BD600-03 (BD-8)

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USER NAME = gconup

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	66
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

*(1214&3127-1)RS-1



* 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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE
HORIZ.

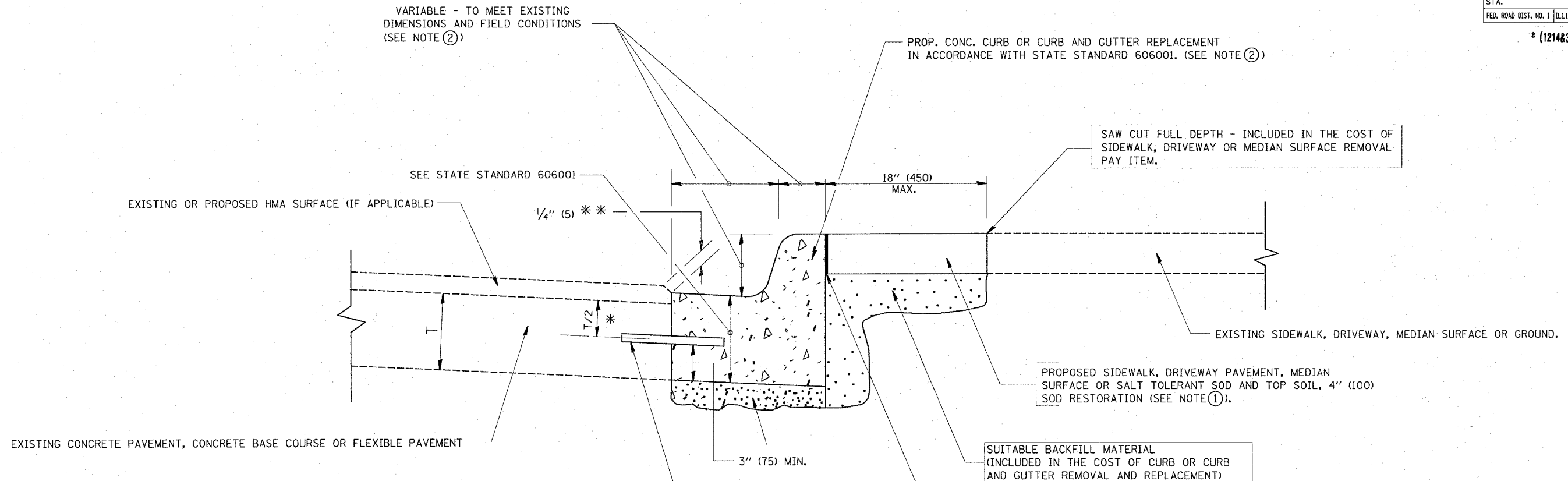
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BD400-04 (BD-22)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	67
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

*(121483127-1)RS-1



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- * ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ.

DRAWN BY

CHECKED BY

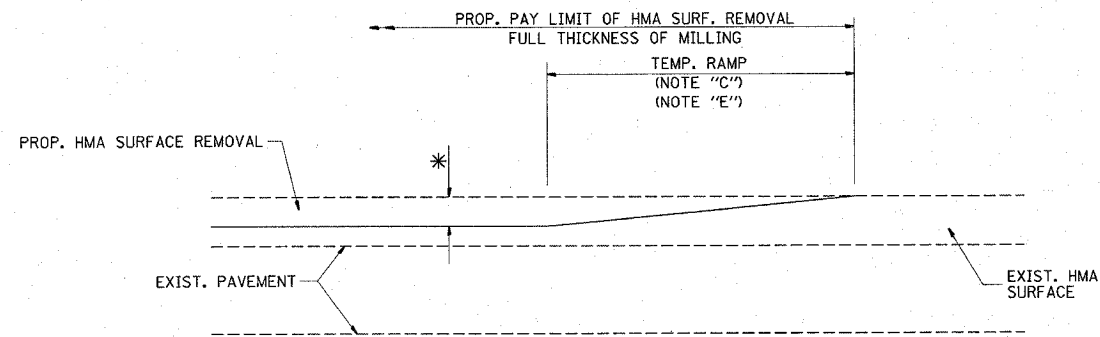
BD600-06 (8D-24)

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

PLOT DATE = 6/15/2007
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USER NAME = jgarcia

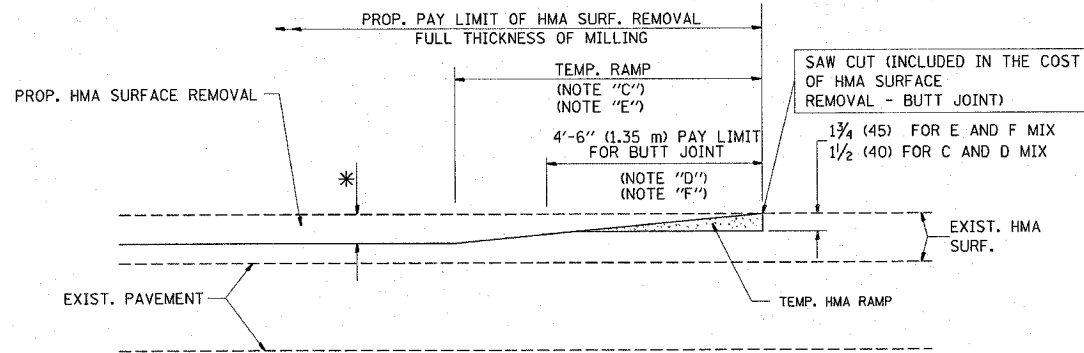
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	38
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

* (121483127-1)RS-1



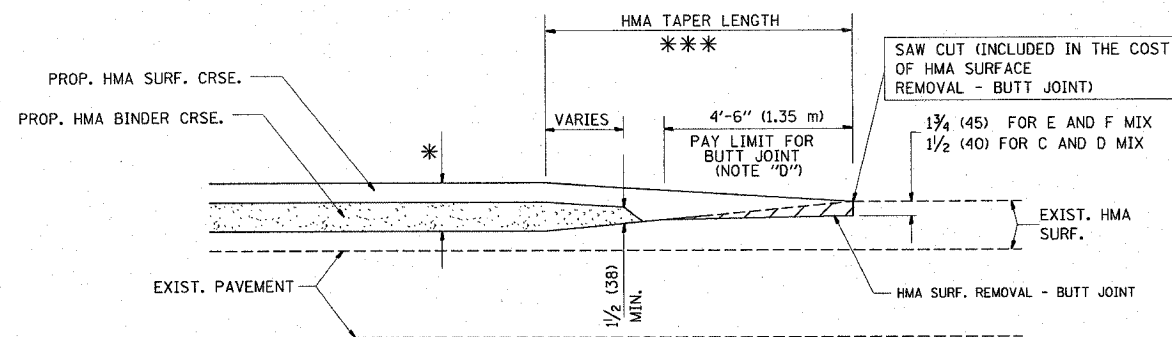
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

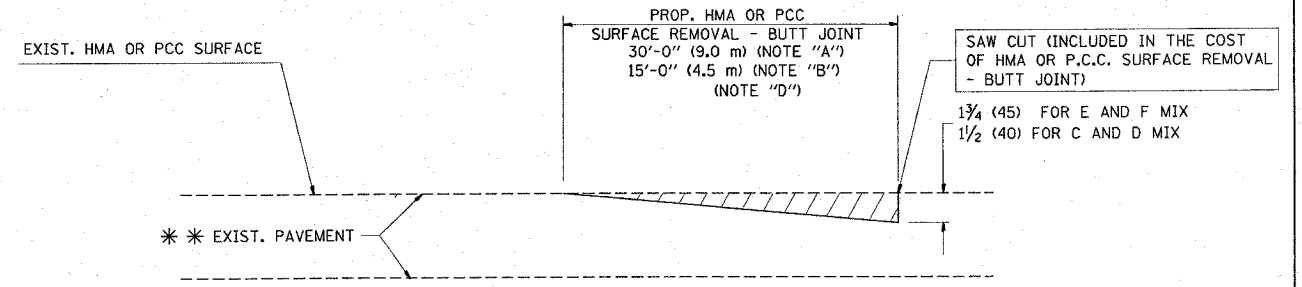


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

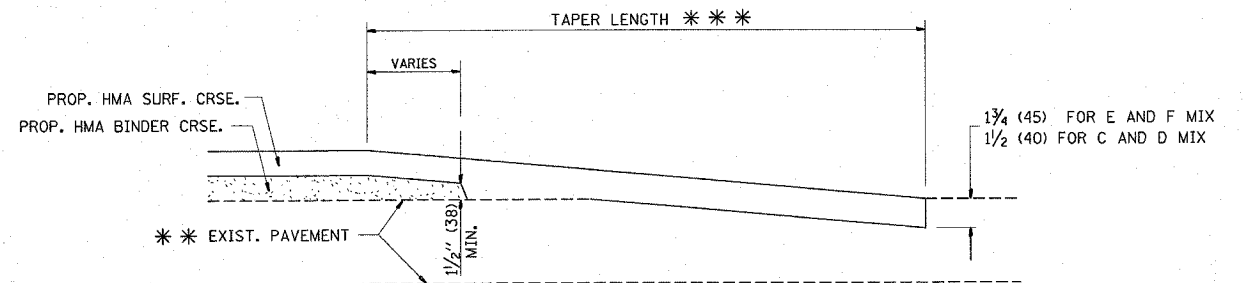
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER
DETAILS

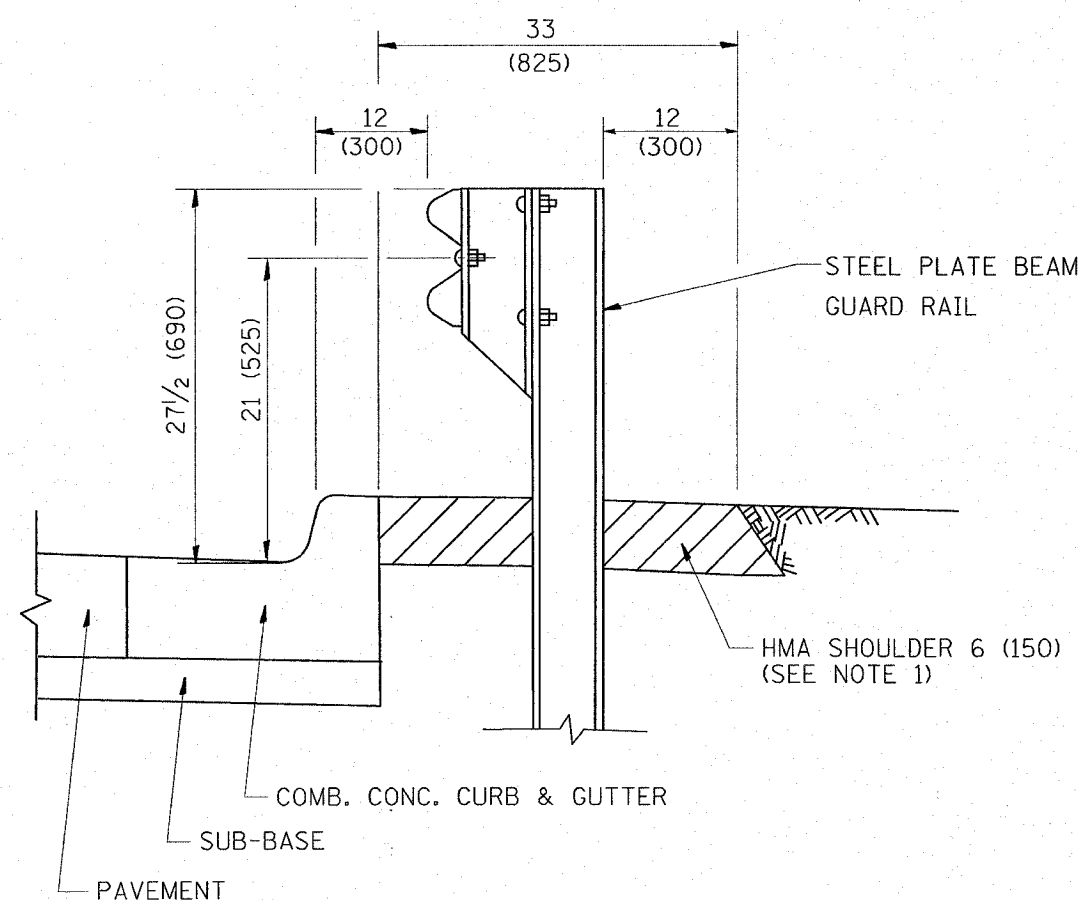
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HORIZ.

DRAWN BY
CHECKED BY

B0400-05 (VI-B032)

CONTRACT NO. 62343				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	69
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

*(1214&3127-1)RS-1

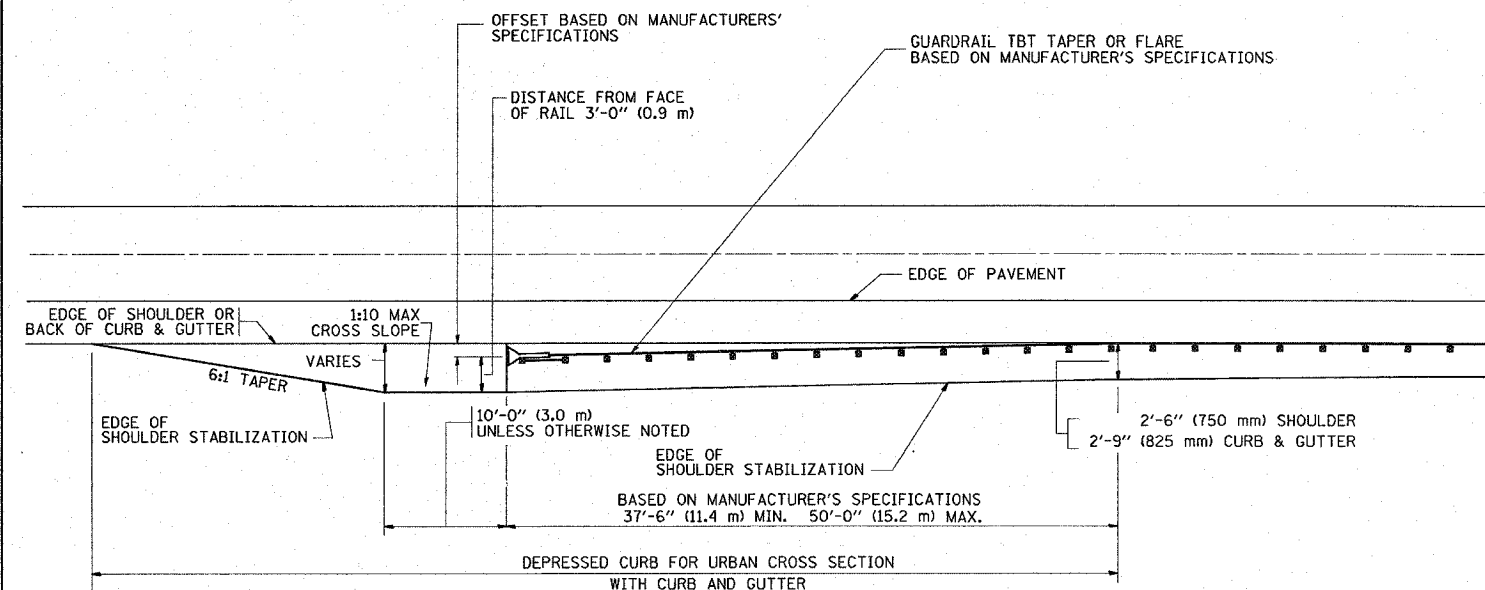


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

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

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

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



STABILIZATION AT TBT TY. 1 SPL.

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

REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00
R. BORO	01/01/07

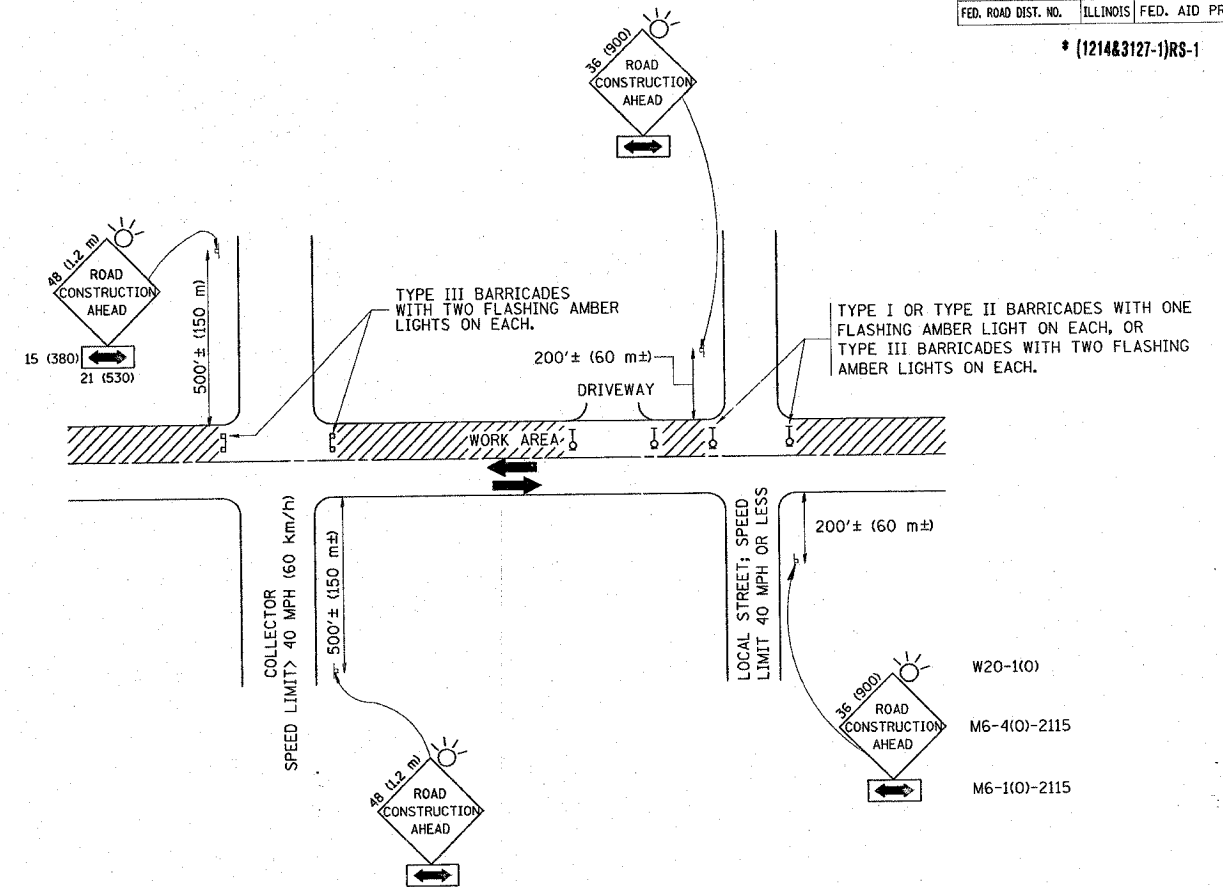
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

SCALE: VERT. NONE
 HORIZ. DRAWN BY Jls
 CHECKED BY

PLOT DATE = 6/16/2007
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 PLOT SCALE = 48.9999 / 1in.
 USER NAME = jpoole

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	70
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(1214&3127-1)RS-1



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

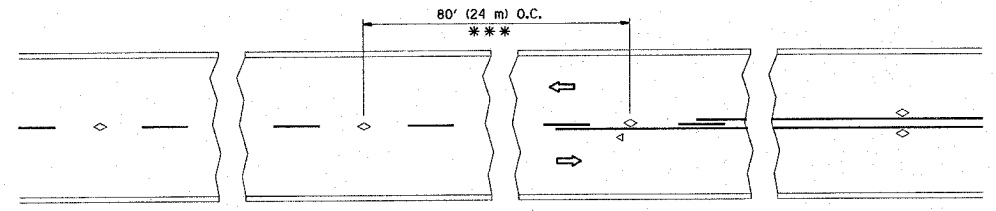
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: NONE

DRAWN BY
 CHECKED BY
 TC-10

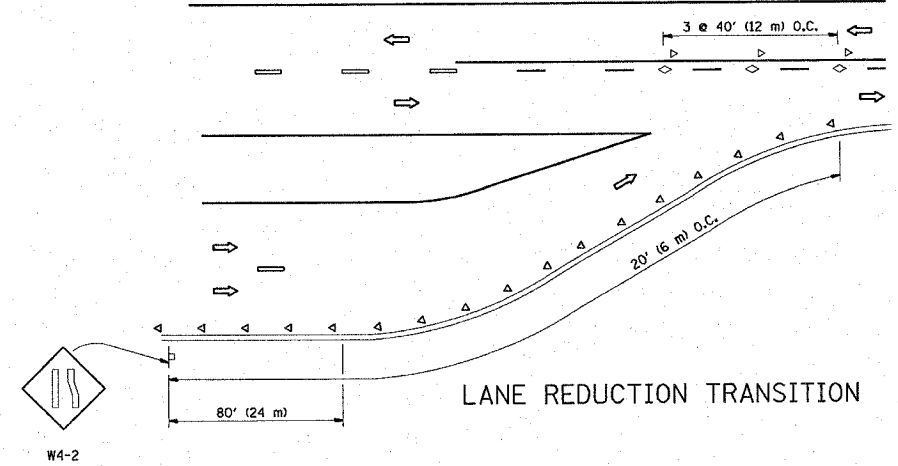
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (1214 & 127-1)RS-1

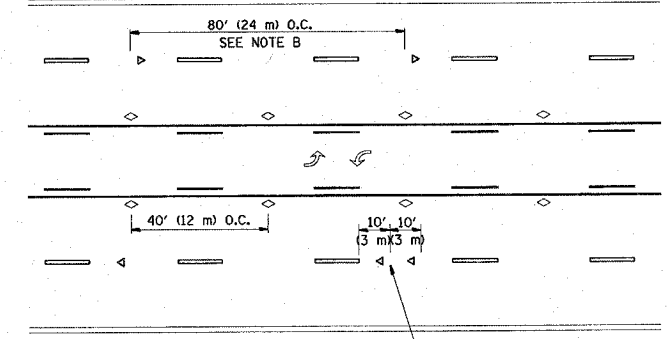


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

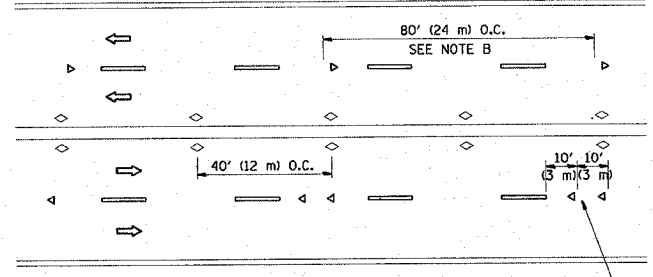
TWO-LANE/TWO-WAY



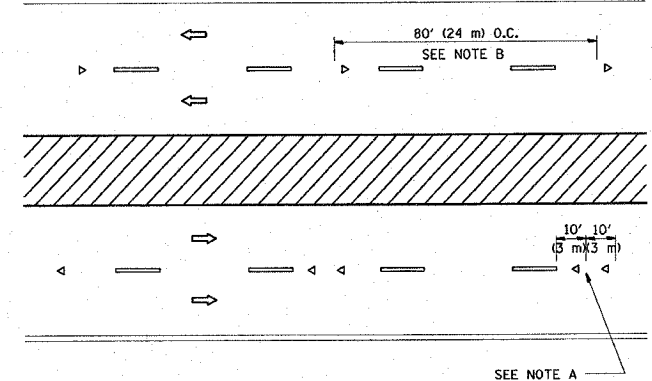
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

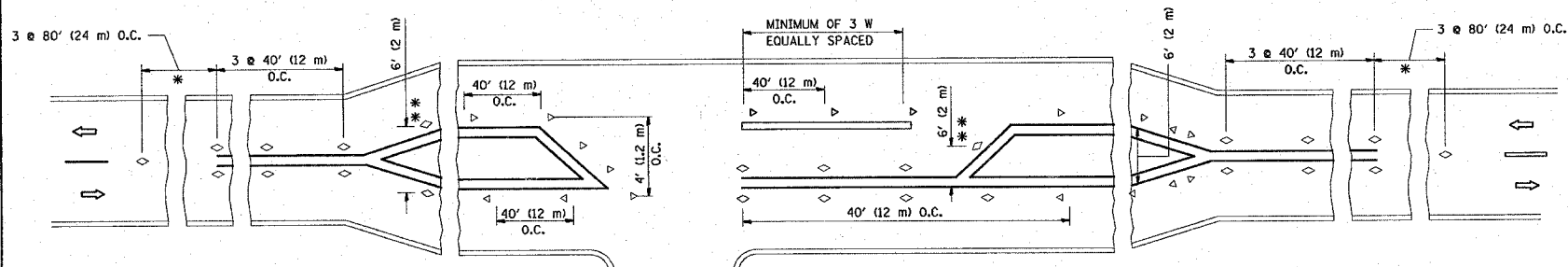
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

SYMBOLS

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

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.



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.

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

DRAWN BY CADD

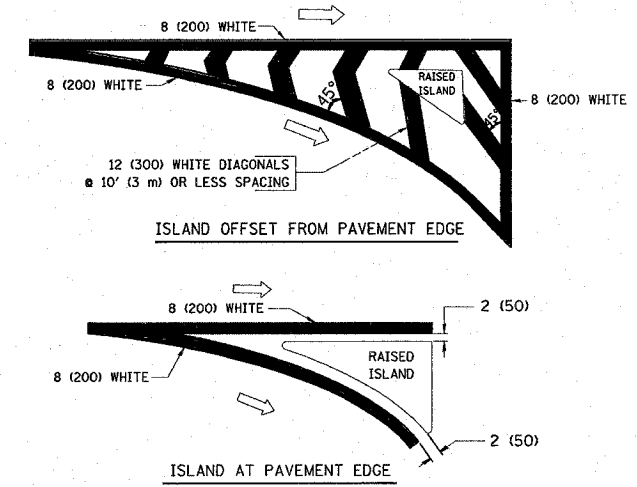
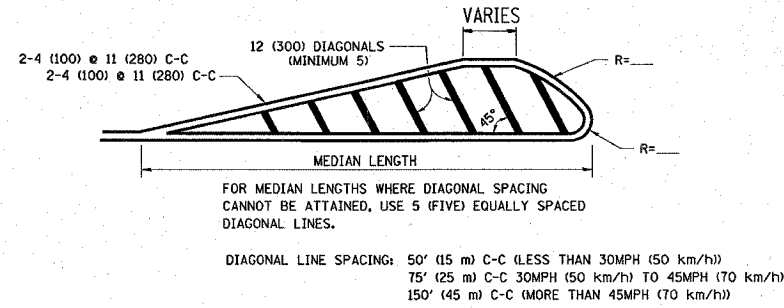
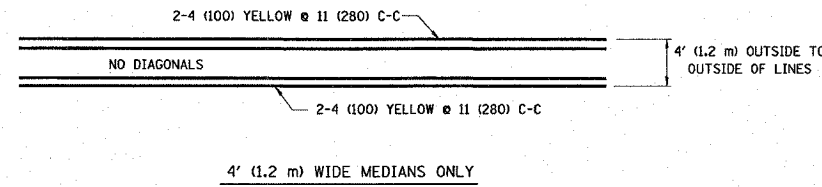
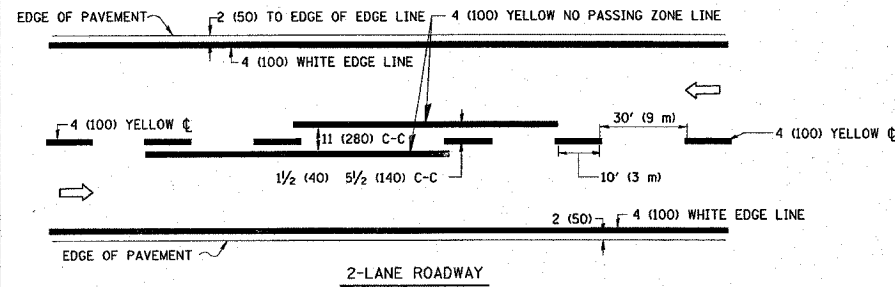
CHECKED BY

TC-11

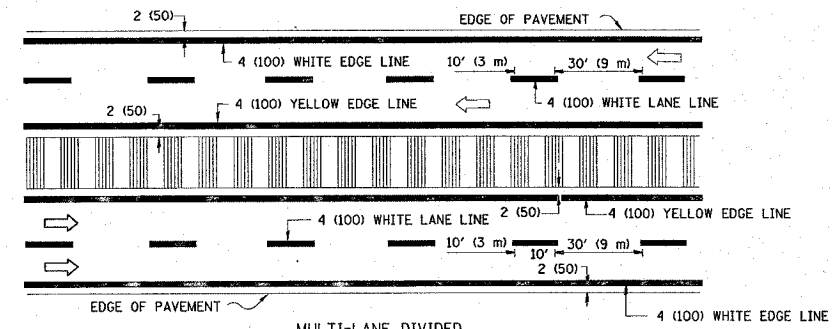
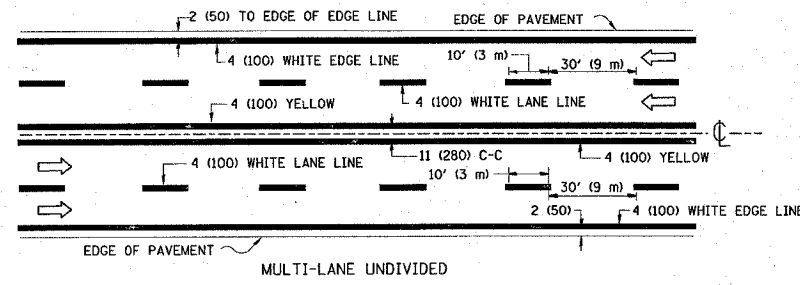
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 USER NAME = yoonyp

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	8	COOK	86	72
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*(1214 & 3127-1) RS-1

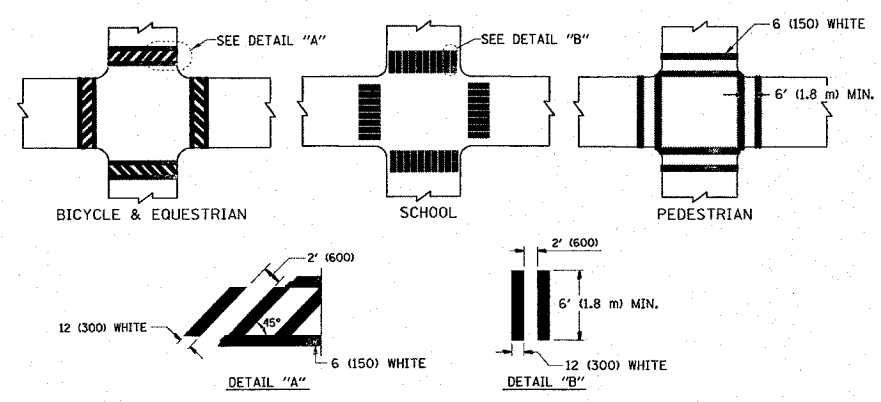


TYPICAL ISLAND MARKING

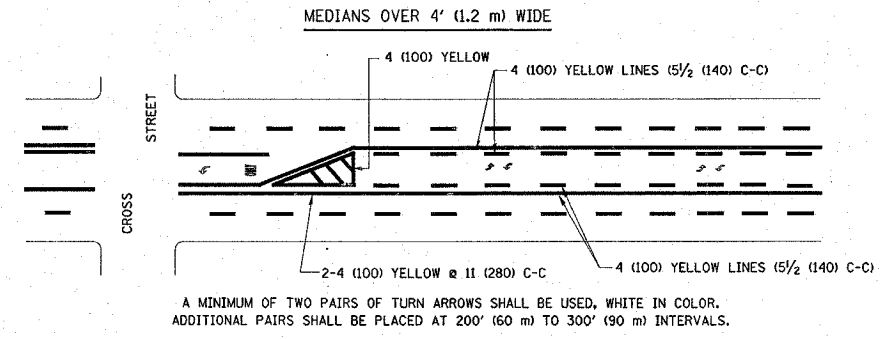


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

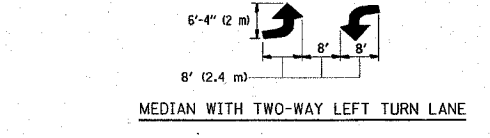
TYPICAL LANE AND EDGE LINE MARKING



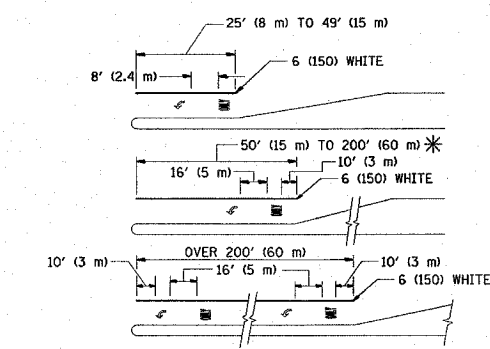
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE 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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 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	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" IS 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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD

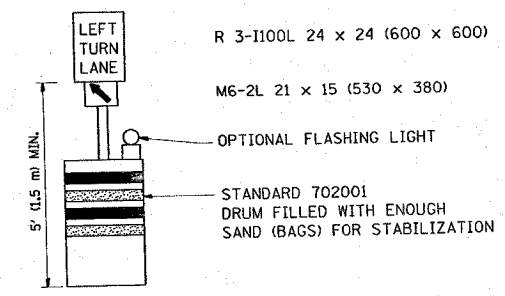
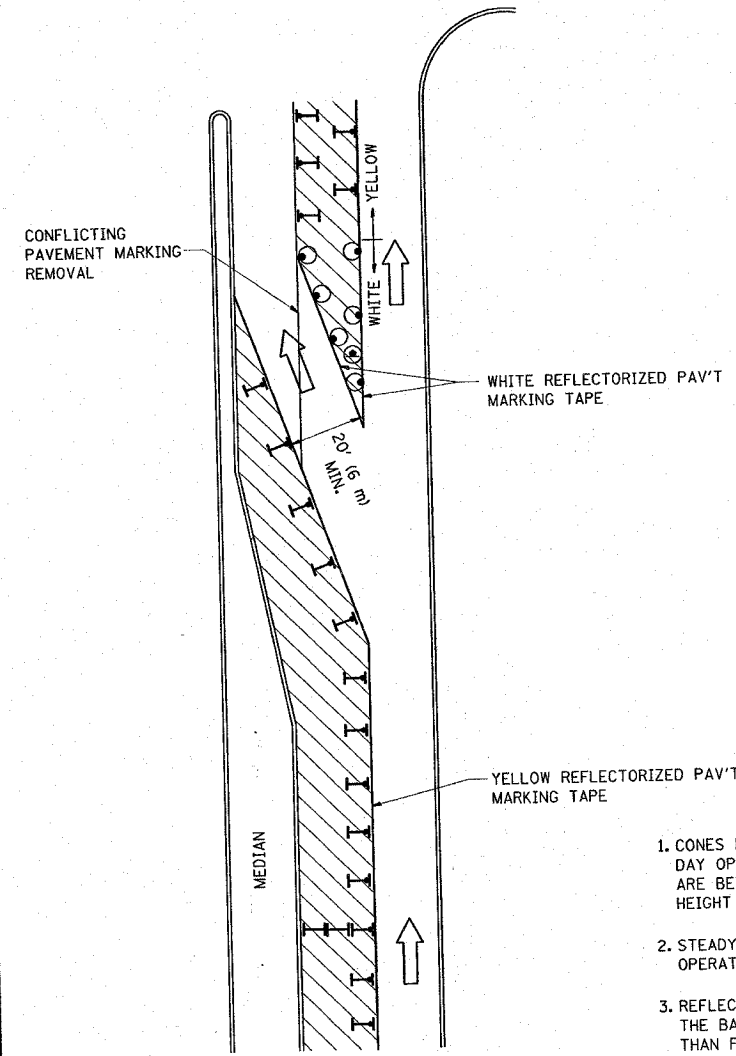
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TC-13

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USER NAME = jpc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	#	COOK	86	78
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

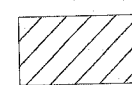





*(1214 & 3127-1) RS-1



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

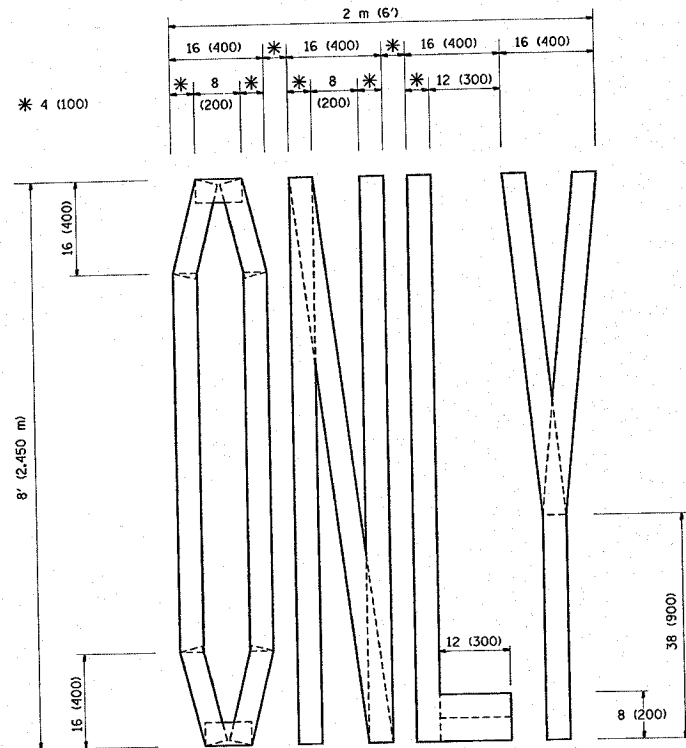
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DRAWN BY
 CHECKED BY LHA
 TC-14

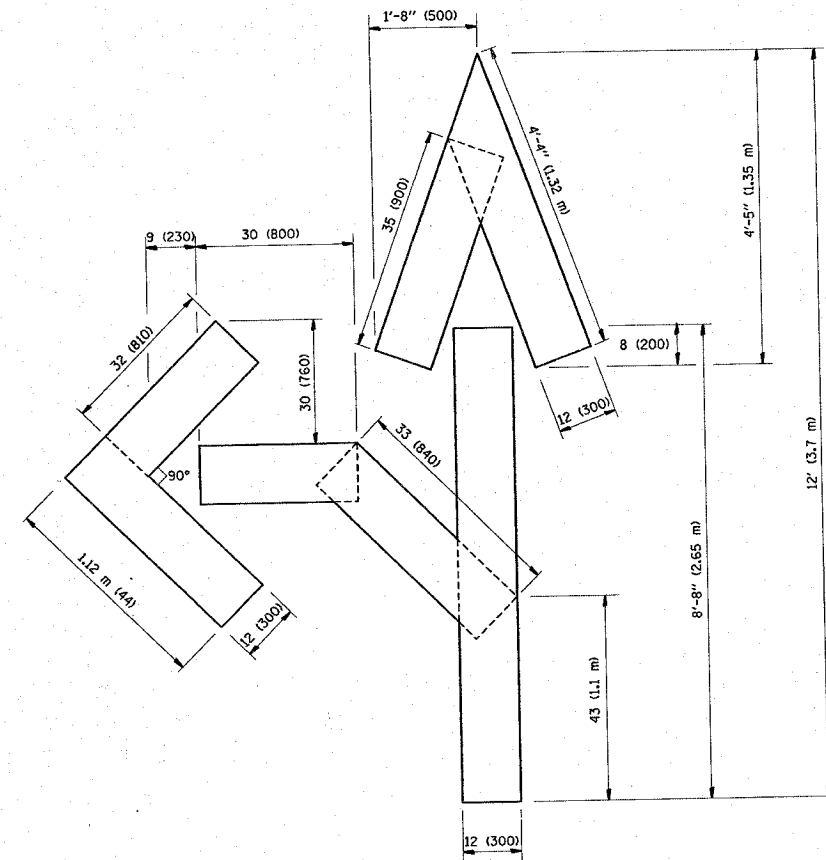
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 USER NAME = yoonje

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	74
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

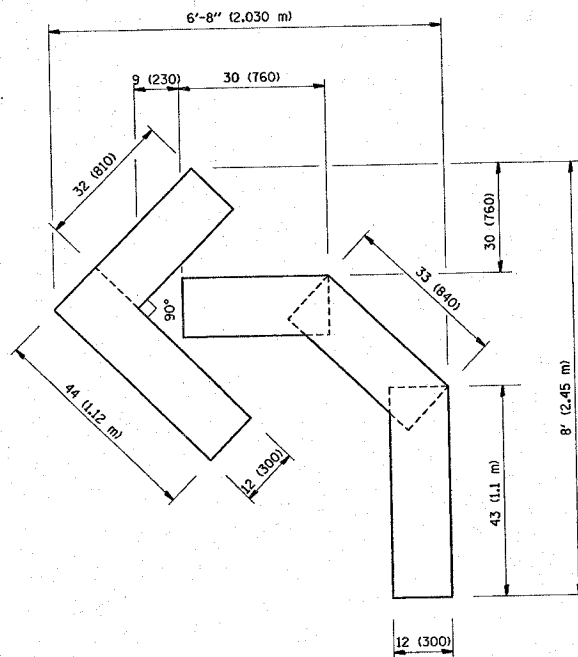
*(1214 & 3127-1) RS-1



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

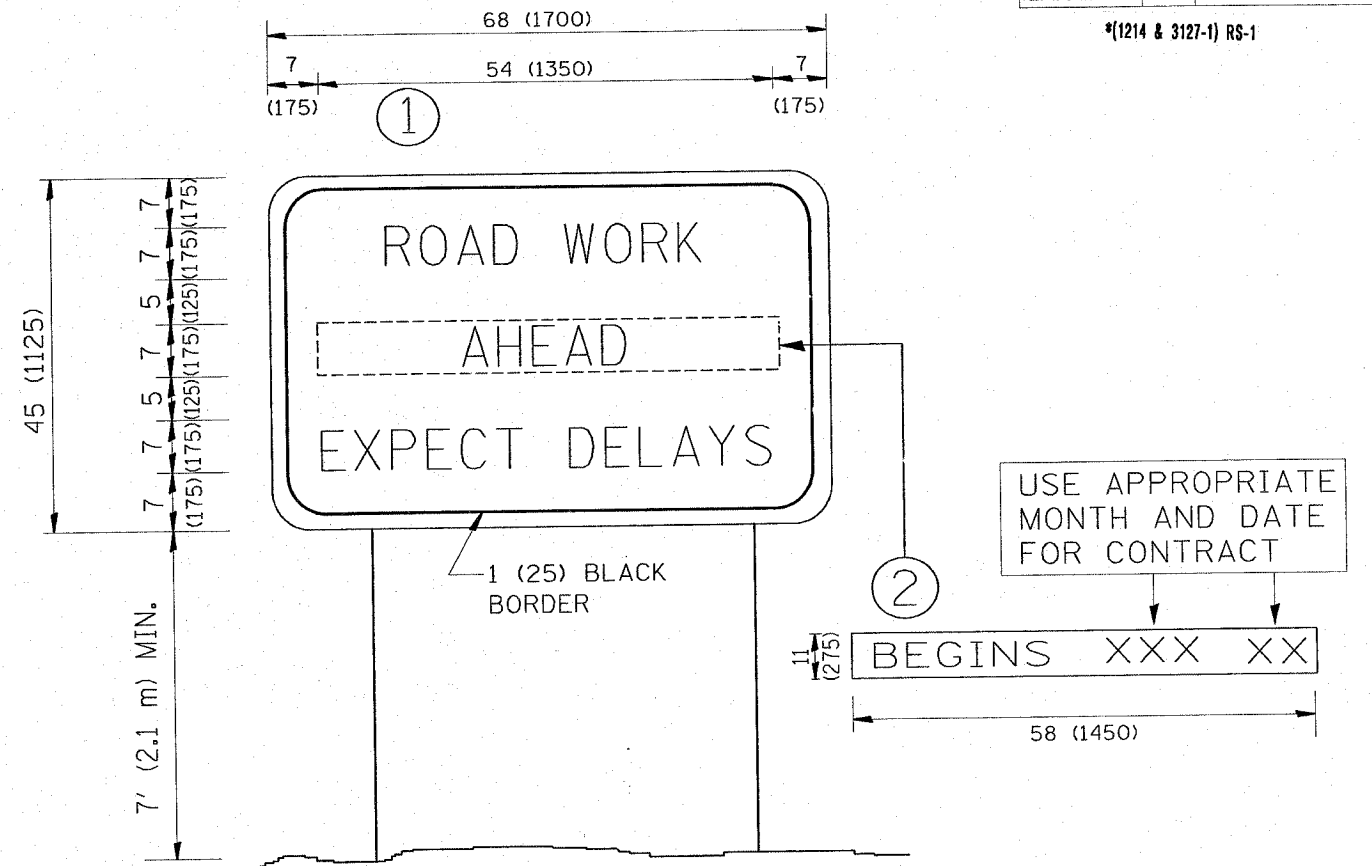
PAVEMENT MARKING
LETTERS AND SYMBOLS
FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-16

F.A. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	4	COOK	86	75
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(1214 & 3127-1) RS-1



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.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
ARTERIAL ROAD
INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN
CHECKED BY
TC22

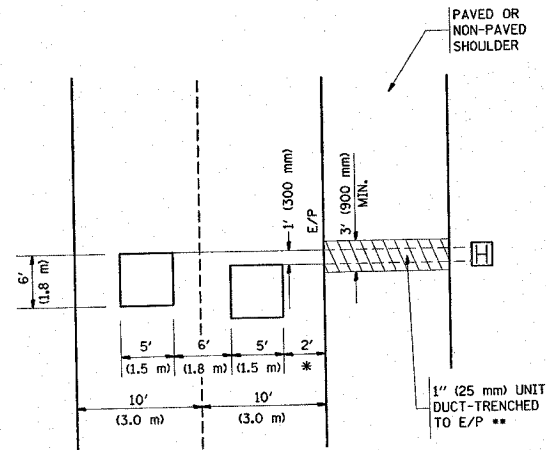
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	76
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*(1214 & 3127-1)

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

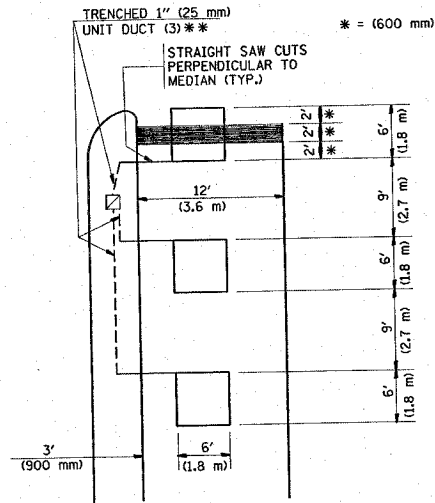


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

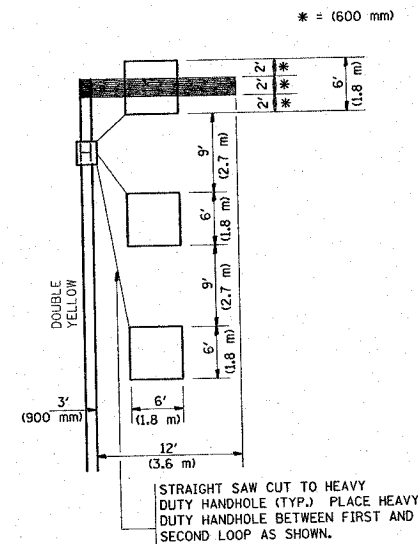
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



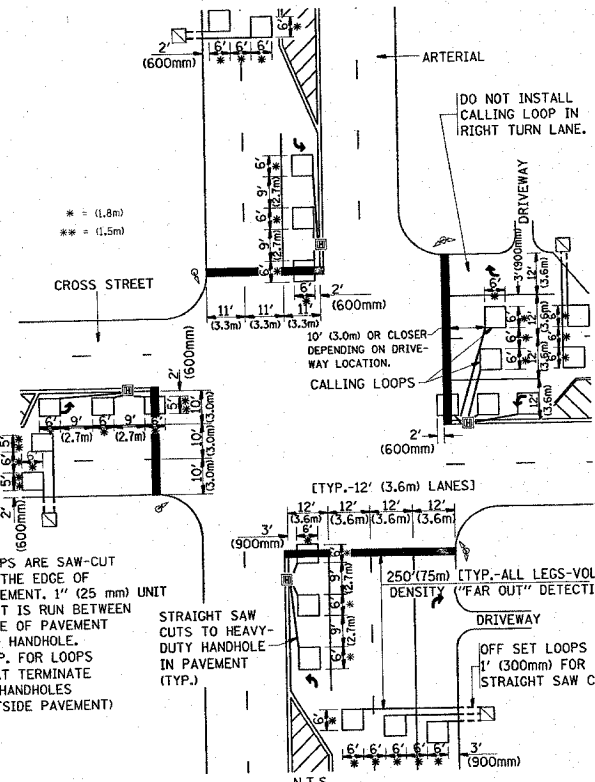
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

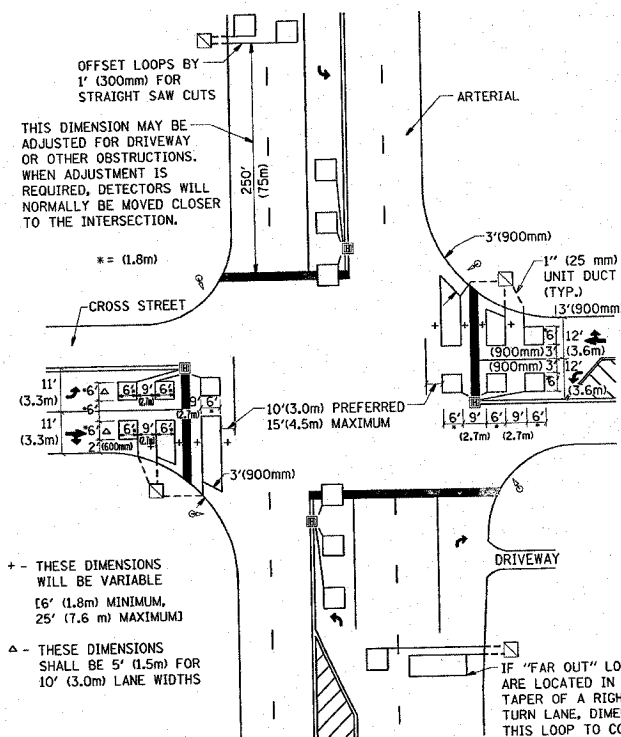
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

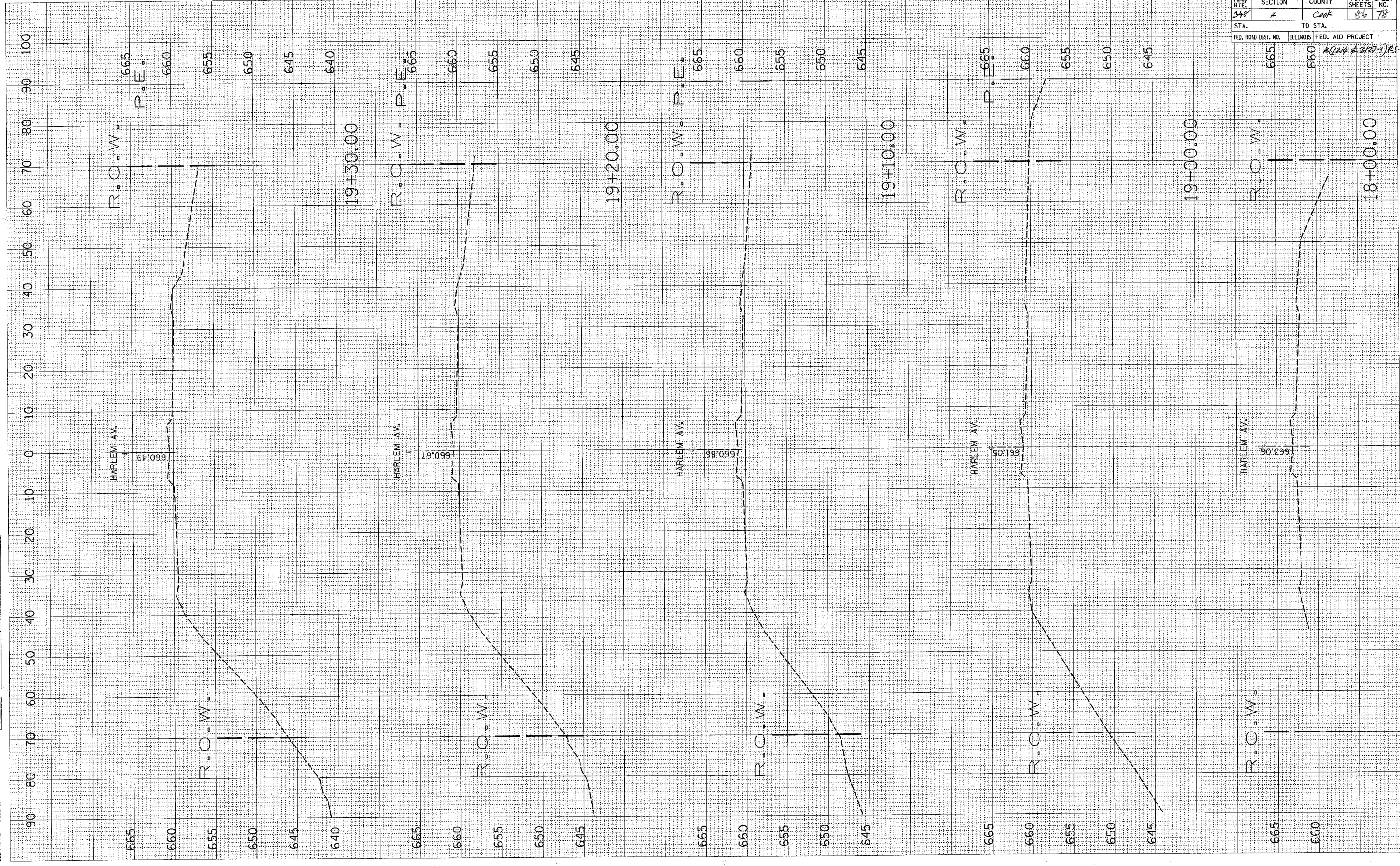
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
TS07

PLT DATE = 6/15/2007
FILE NAME = v:\distrct1\sig7.dgn
PLOT SCALE = 49.9999 / 1
USER NAME = jgonyu

PLOT DATE = 12/5/2007
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 BY: DATE: AREAS CHECKED: NO.

FINAL SURVEY PLOTTED NOTE BOOK AREAS CHECKED: NO.



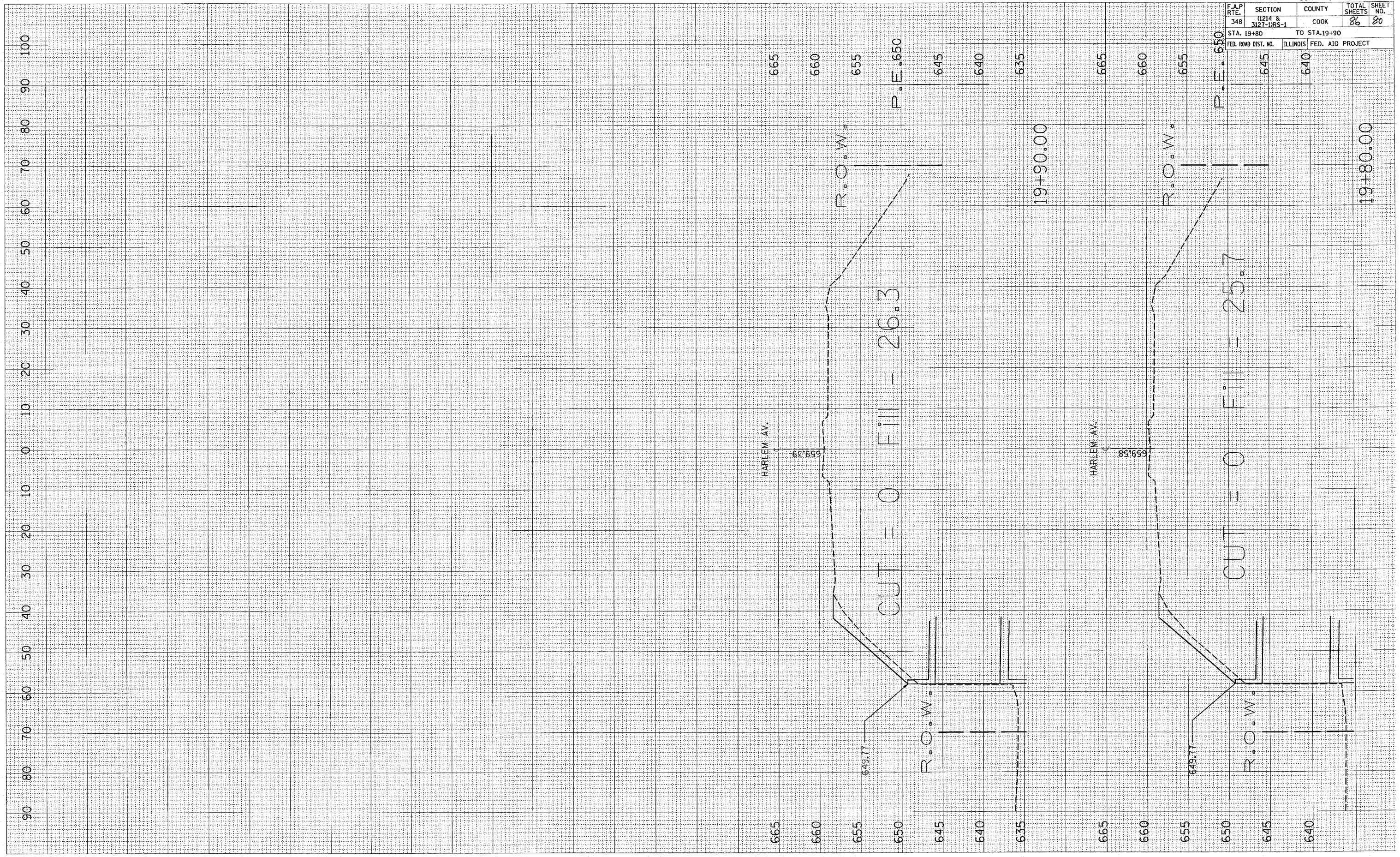
CONTRACT NO. 62343				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		*(24 # 377-1)RS		

PLOT DATE = 1/10/2008
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 PLOT SCALE = 800.0000' / IN.
 USER NAME = lisa@pc

ORIGINAL SURVEY NO. _____
 EXPANDED SURVEY NO. _____
 PLOTTED TEMPLATE AREAS CHECKED

FINAL SURVEY NO. _____
 SURVEY PLOTTED TEMPLATE AREAS CHECKED

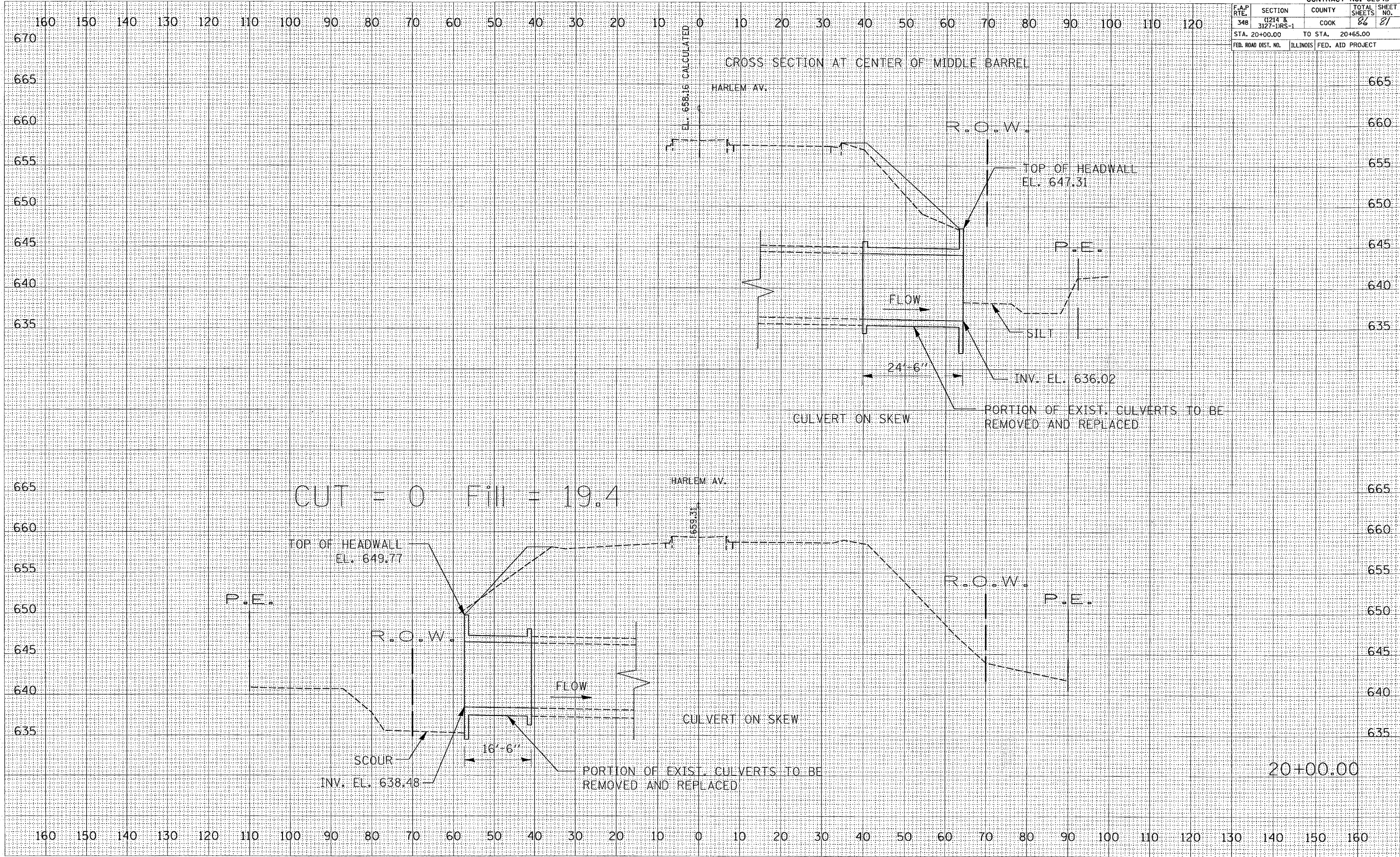
BY _____ DATE _____



CONTRACT NO. 62343			
F.A.P. RTE. 348	SECTION 0214 & 3127-1RS-1	COUNTY COOK	TOTAL SHEETS 86
STA. 19+80		TO STA. 19+90	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	645	640	

REV. 01-10-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(1214 & 3127-1RS-1)	COOK	86	87
STA. 20+00.00		TO STA. 20+65.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CUT = 0 Fill = 19.4

TOP OF HEADWALL EL. 649.77

P.E.

R.O.W.

FLOW

CULVERT ON SKEW

SCOUR INV. EL. 638.48

16'-6"

PORTION OF EXIST. CULVERTS TO BE REMOVED AND REPLACED

R.O.W.

P.E.

20+00.00

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
NO.	

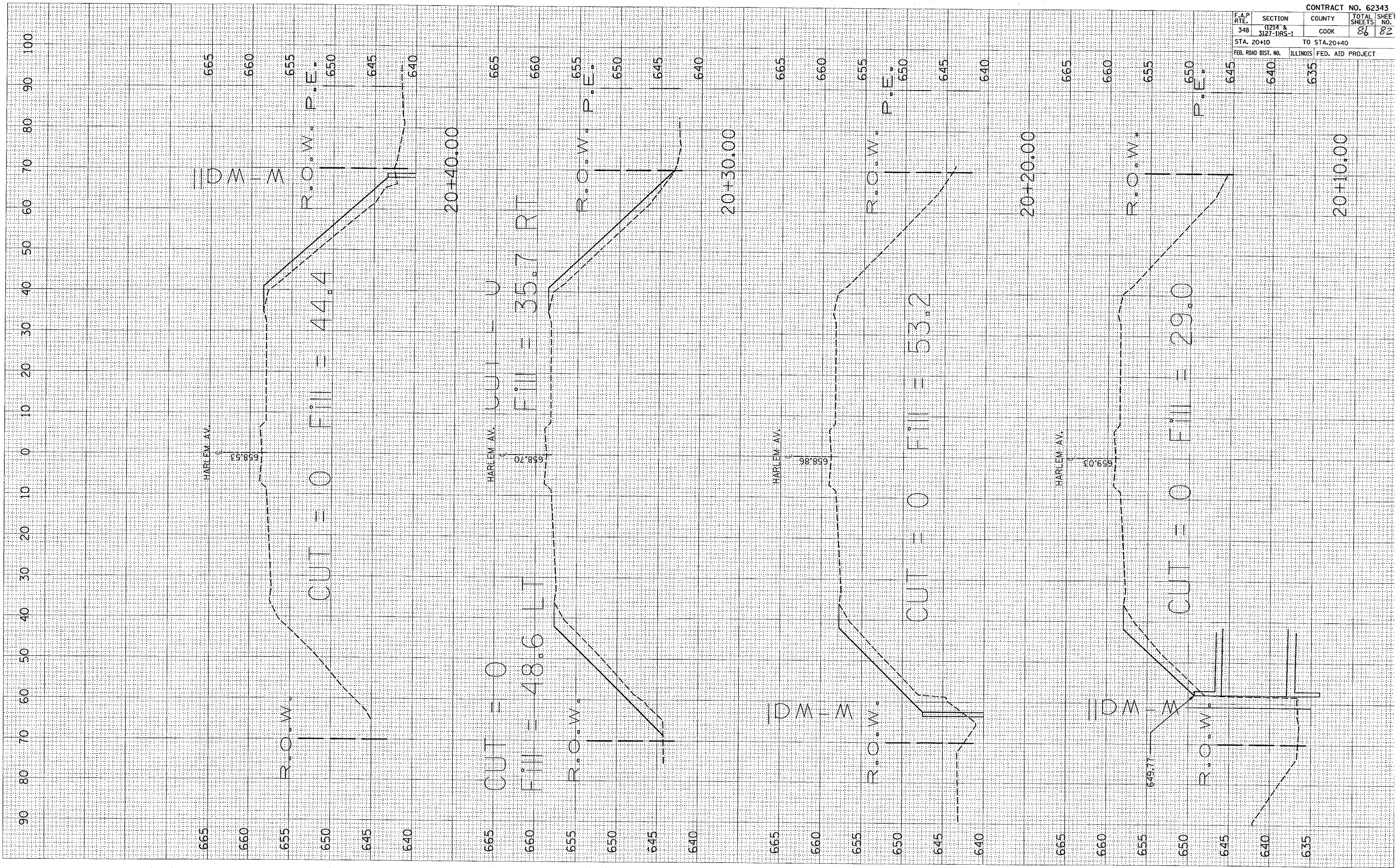
DATE	
BY	
ORIGINAL SURVEY	
TITLE	
NOTE BOOK	
NO.	

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 USER NAME = jbarnerf

PLOT DATE = 1/18/2008
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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = jzackr-f

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 SURVEY PLOTTED BY DATE
 NOTE BOOK NO. AREAS CHECKED

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

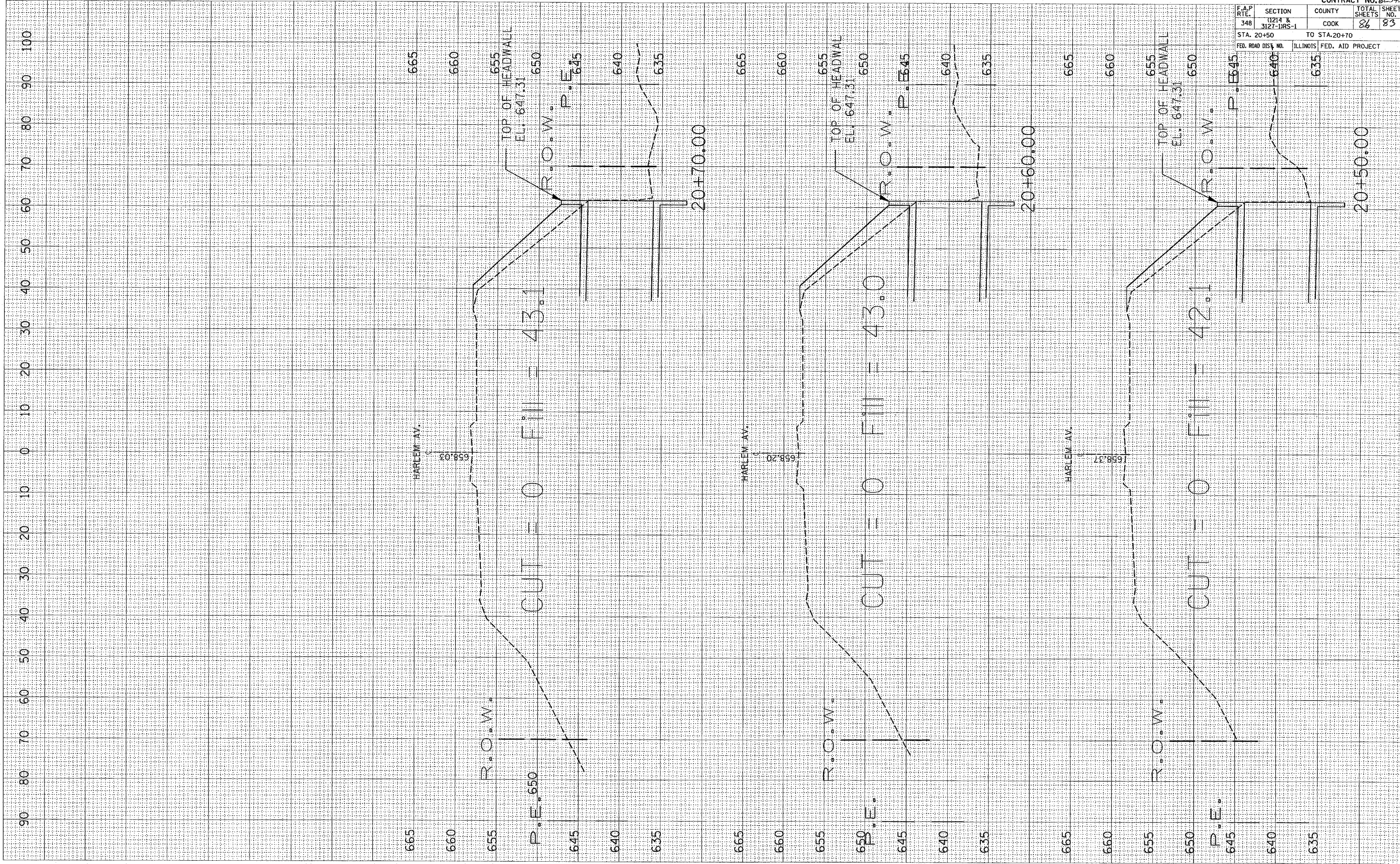


CONTRACT NO. 62343			
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348	(1214 & 3127-JRS-1	COOK	86
STA. 20+10		TO STA. 20+40	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

PLOT DATE = 1/10/2008
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 USER NAME = tkawrft

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 SURVEY JETED
 TEMPLATE AREAS CHECKED
 NO.

FINAL SURVEY BY DATE
 NOTE BOOK AREAS CHECKED
 NO.

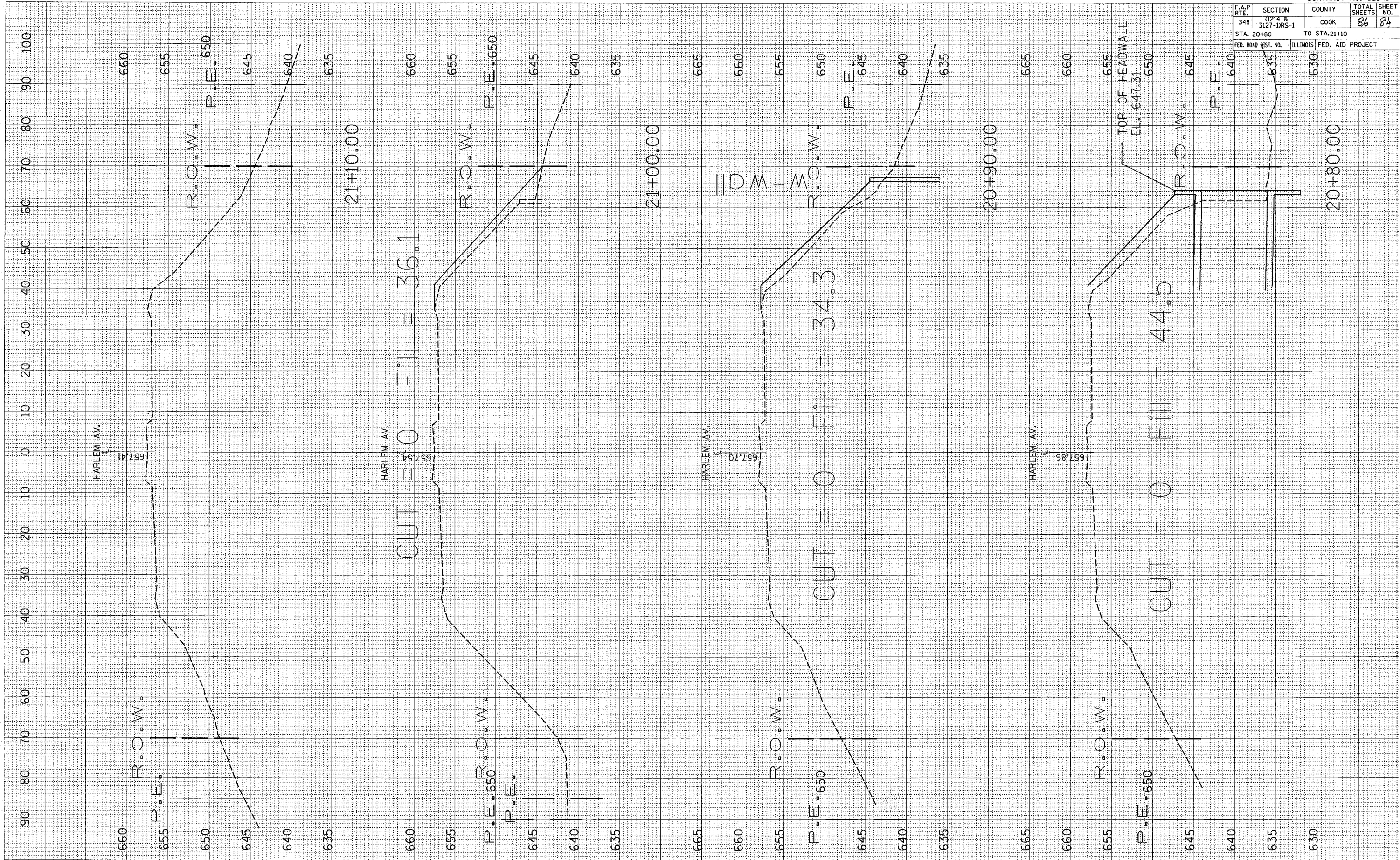


CONTRACT NO. 6234				
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1214 & 3127-URS-1	COOK	86	83
STA. 20+50		TO STA. 20+70		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = 1/18/2008
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 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = ltrskr

ORIGINAL SURVEY
 REVISIONS
 NO. DATE BY

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

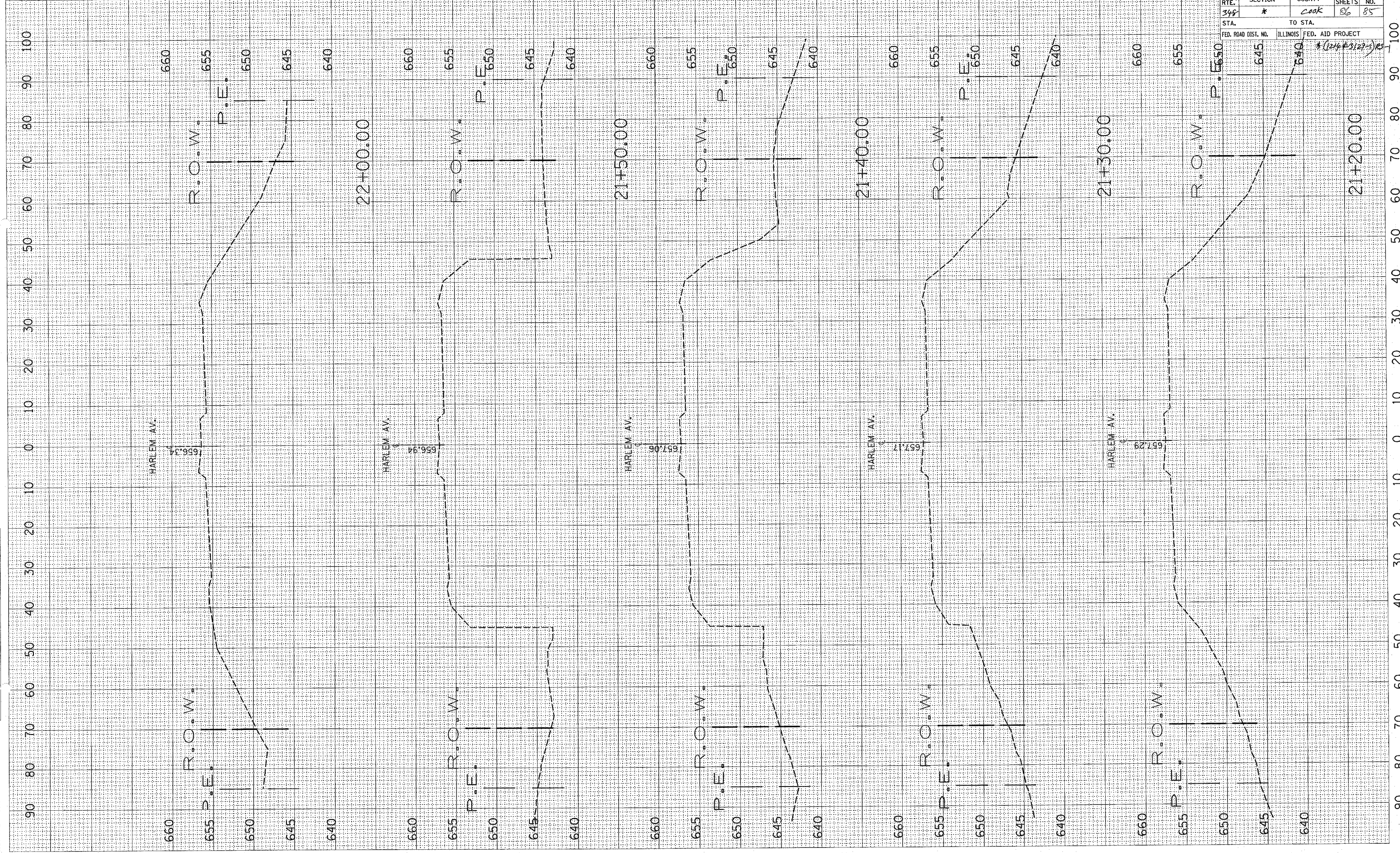


CONTRACT NO. 62343			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
348	1214 & 3127-1RS-1	COOK	86
STA. 20+80		TO STA. 21+10	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
			SHEET NO. 84

ORIGINAL SURVEY
 PLOTTED
 DATE
 SCALE
 USER NAME

SURVEYED
 PLOTTED
 DATE
 SCALE
 USER NAME

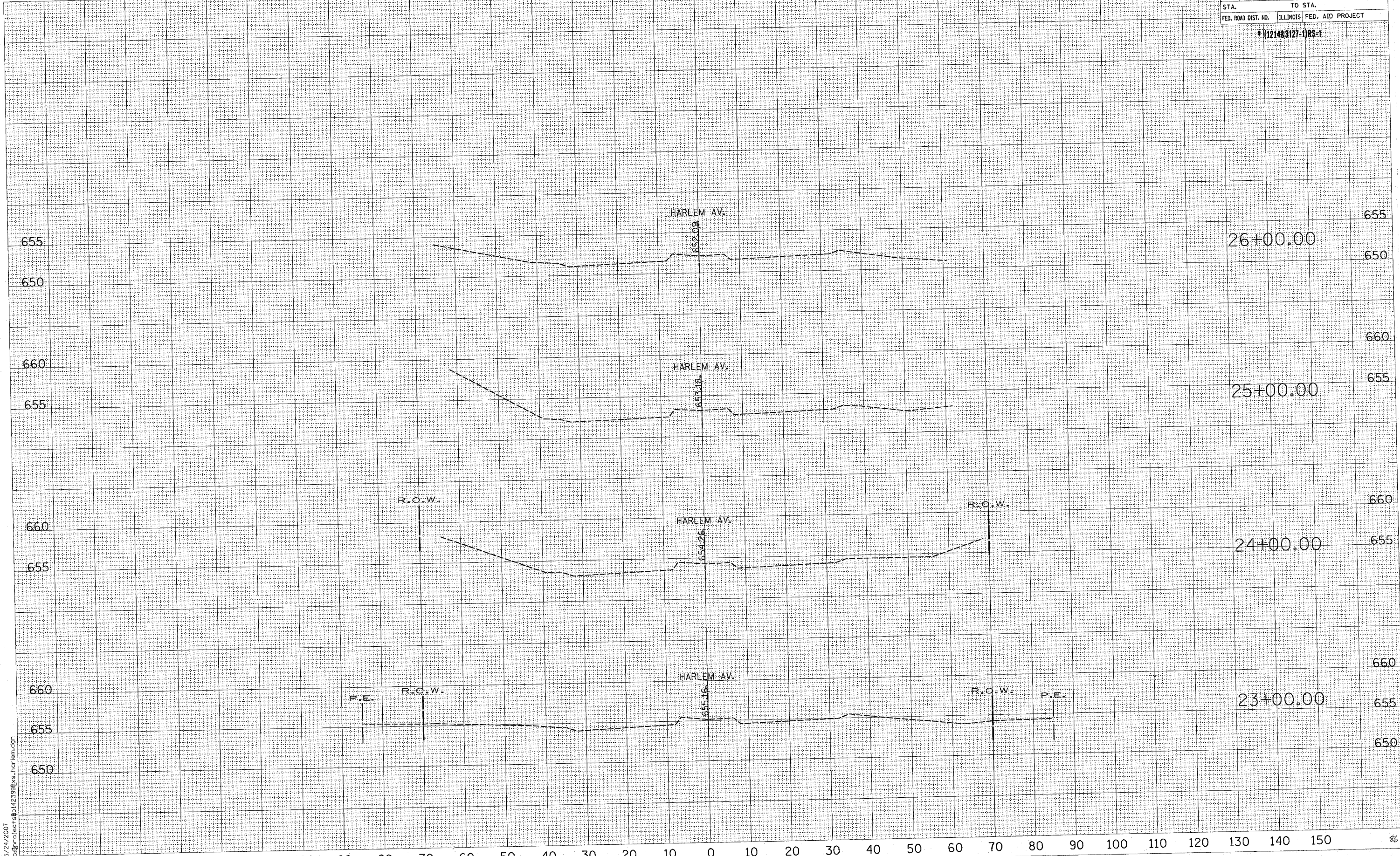
SURVEYED
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 SCALE
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CONTRACT NO. 62343				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	Cook	86	85
STA.	TO STA.		FED. AID PROJECT	
			* (214 P. 3127)	

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	*	COOK	86	86
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		* (121483127-0)RS-1		



5/24/2007
c:\projects\p142399\vs_harlem.dgn

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