

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 60B45	

* 21-3-24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 880 (IL 120 - NORTH FRONTAGE ROAD)
SECTION 12 RS-3
WILL AVENUE TO KNIGHT AVENUE
RESURFACING (3P)
LAKE COUNTY
C-91-346-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED
WITHIN THE CITY OF
PARK CITY

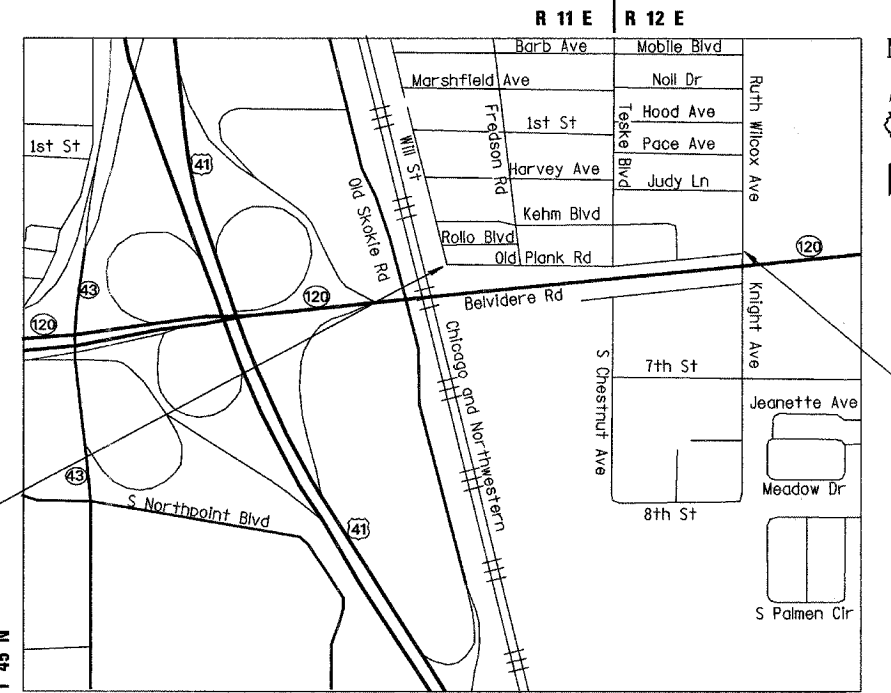
TRAFFIC DATA

2005 ADT - 4500
POSTED SPEED LIMIT - 25 MPH

D-91-346-06



LOCATION OF SECTION INDICATED THIS: -



WARREN TOWNSHIP / WAUKEGAN TOWNSHIP

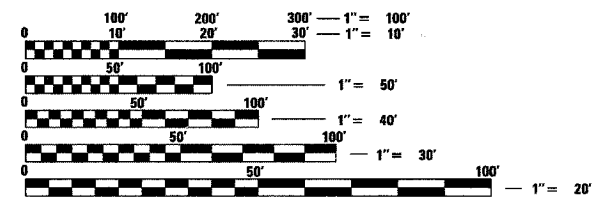
LOCATION MAP

1" = 2000'

GROSS AND NET LENGTH OF PROJECT = 1579.85 FT = 0.30 MI.

BEGIN IMPROVEMENT
STA. 100 + 00.00

END IMPROVEMENT
STA. 115 + 79.85



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

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

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MAY 29, 2008

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 27, 2008
Eric E. Harrel
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

June 27, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 60B45

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: K. ENG (847)-705-4247

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
4A	EARTHWORK SCHEDULE
4B	ALIGNMENT & CONTROL POINTS
5-7	ROADWAY AND PAVEMENT MARKING PLAN
8	EROSION AND SEDIMENT CONTROL PLAN
8A	EXISTING TRAFFIC SIGNAL PLAN
9	DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m) (BD-02)
10	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
11	HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33)
12	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
14	ARTERIAL ROAD INFORMATION SIGN (TC-22)
15	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)
16-21	CROSS SECTIONS

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
602001	CATCH BASIN TYPE A
602301-01	INLET - TYPE A
604086-01	FRAME AND GRATE TYPE 23
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-04	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901	TRAFFIC CONTROL DEVICES

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATIONS IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.004 TONS/SQ YD
HOT-MIX ASPHALT SURFACE COURSE	112 LBS/SQ YD/INCH
- WHEN MILLED PAVEMENT IS OPEN IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2" (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1" (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 3:1 (H:V).
- BUTT JOINTS WILL BE INSTALLED AT THE END 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.
- FOR PAVEMENT MARKING, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS SHOWN.
- MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.

FILE NAME = n:\vno\3329\3329_32\design\proposed\len\3329_32-02-General_Notes.dgn



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PLOT DATE = 6/3/2008	DATE - MAY 2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	2
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

SUMMARY OF QUANTITIES				TOTAL QUANTITY	URBAN CONSTRUCTION TYPE CODE
CODE NO.	DESCRIPTION	UNIT	100% STATE ROADWAY 1000		
20200100	EARTH EXCAVATION	CU YD	105	105	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200	200	
20800150	TRENCH BACKFILL	CU YD	60	60	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,100	2,100	
25200110	SODDING, SALT TOLERANT	SQ YD	2,100	2,100	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75	75	
28000300	TEMPORARY DITCH CHECKS	EACH	10	10	
28000400	PERIMETER EROSION BARRIER	FOOT	2,000	2,000	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5	5	
40600300	AGGREGATE (PRIME COAT)	TON	25	25	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	10	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	175	175	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	250	250	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	600	600	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	110	110	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,700	2,700	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	120	120	
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	1,000	1,000	
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	200	200	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	50	50	
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	670	670	

SUMMARY OF QUANTITIES				TOTAL QUANTITY	URBAN CONSTRUCTION TYPE CODE
CODE NO.	DESCRIPTION	UNIT	100% STATE ROADWAY 1000		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,600	1,600	
48101498	AGGREGATE SHOULDERS, TYPE B4"	SQ YD	1,500	1,500	
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV12"	FOOT	230	230	
55037800	STORM SEWERS TO BE CLEANED 12"	FOOT	1,000	1,000	
55038000	STORM SEWERS TO BE CLEANED 18"	FOOT	200	200	
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2	
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	160	160	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	55	55	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,500	3,500	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	230	230	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	120	120	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	225	225	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26	
XX000671	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12	FOOT	350	350	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	7	7	
Z0042200	PORTLAND CEMENT CONCRETE PAVEMENT SURFACE REMOVAL	SQ YD	850	850	

* SPECIALTY ITEM

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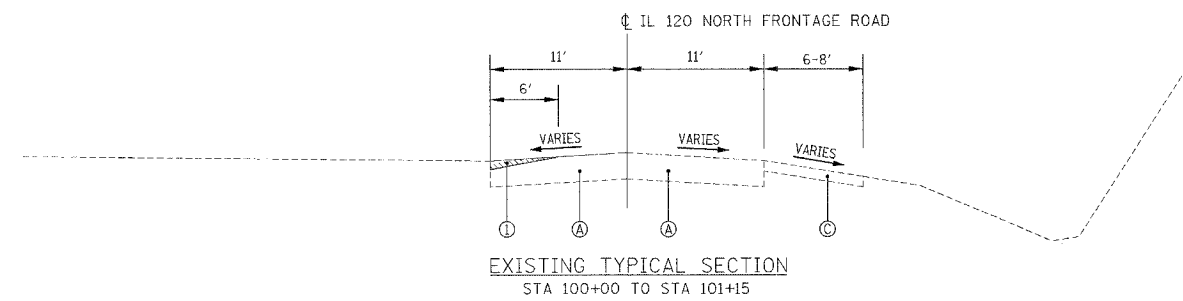
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

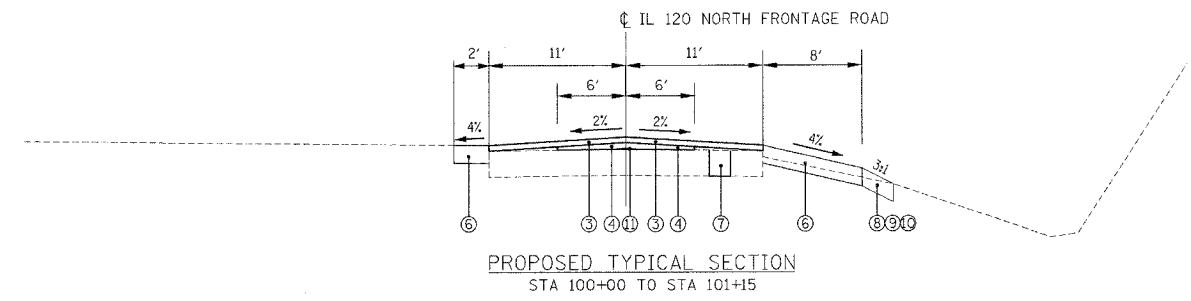
ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
SUMMARY OF QUANTITIES

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

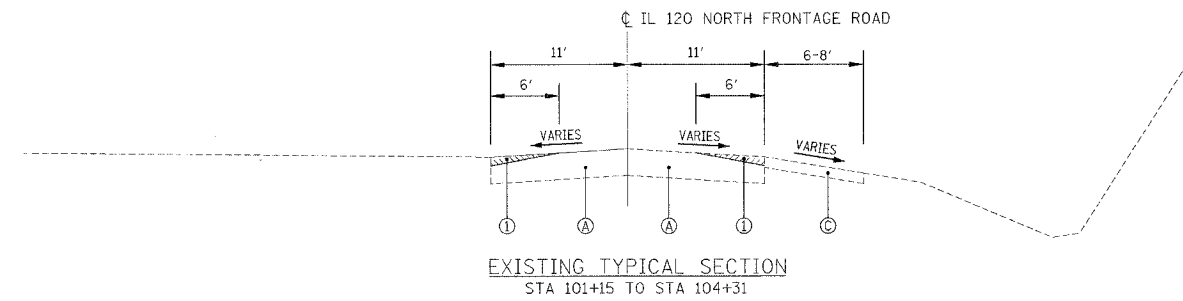
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880	12 RS-3	LAKE	21	3
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60B45	



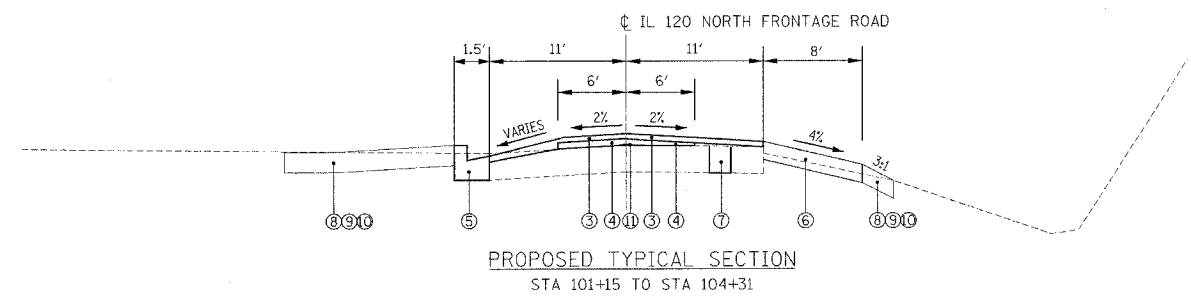
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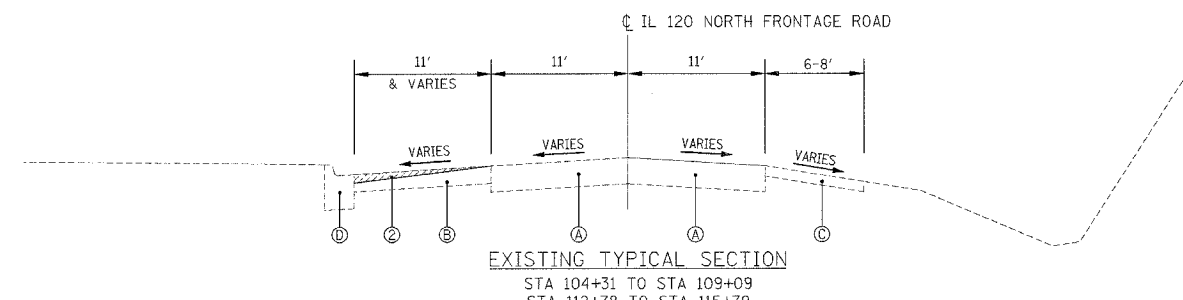
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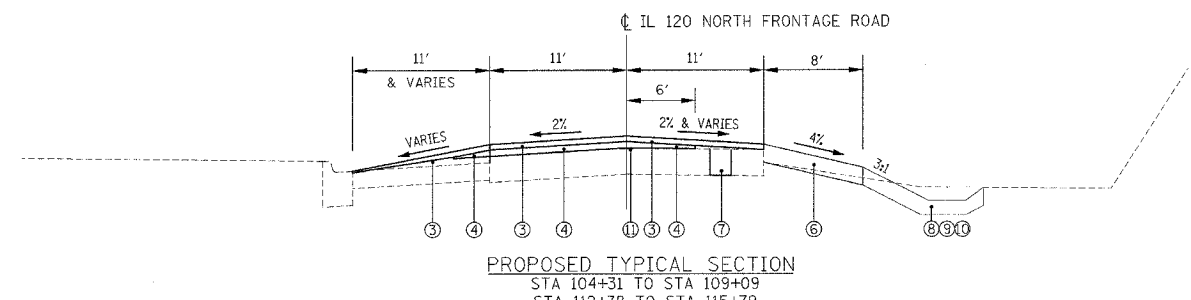
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STA 101+15 TO STA 104+31



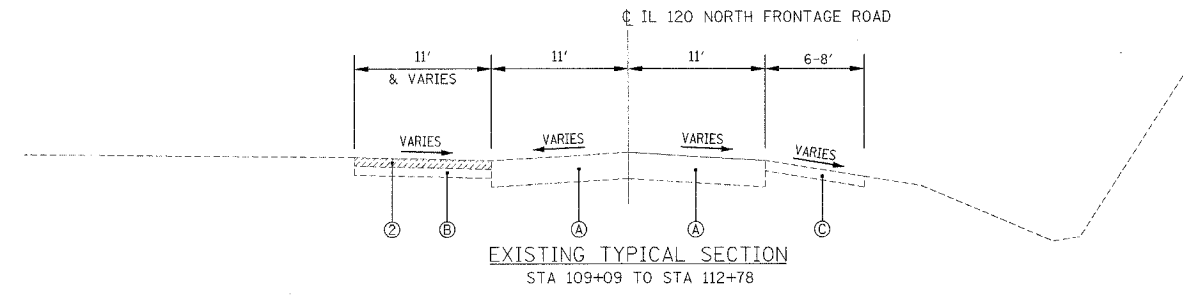
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STA 101+15 TO STA 104+31



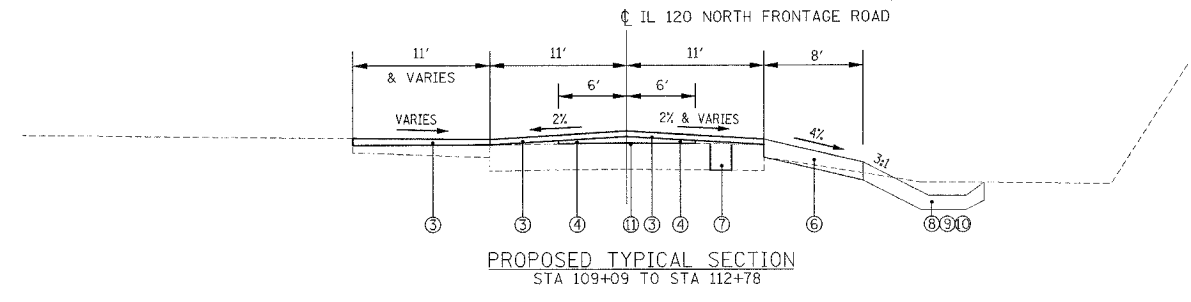
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STA 104+31 TO STA 109+09
STA 112+78 TO STA 115+79



PROPOSED TYPICAL SECTION
STA 104+31 TO STA 109+09
STA 112+78 TO STA 115+79



EXISTING TYPICAL SECTION
STA 109+09 TO STA 112+78



PROPOSED TYPICAL SECTION
STA 109+09 TO STA 112+78

EXISTING CONDITIONS:

- Ⓐ PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- Ⓑ HOT-MIX ASPHALT SHOULDER
- Ⓒ AGGREGATE SHOULDER
- Ⓓ COMBINATION CURB AND GUTTER

PROPOSED IMPROVEMENTS:

- ① PORTLAND CEMENT CONCRETE PAVEMENT SURFACE REMOVAL (VARIABLE DEPTH), VARIES 0 TO 2 1/2"
- ② HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, VARIES 0 TO 1 1/2"
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
- ④ LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5 mm), VARIES 3/4" TO 2 1/4"
- ⑤ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12
- ⑥ AGGREGATE SHOULDERS, TYPE B 4"
- ⑦ CLASS D PATCHES, 9" (DETERMINED BY ENGINEER IN FIELD)
- ⑧ EARTH EXCAVATION
- ⑨ TOPSOIL FINISH AND PLACE, 4"
- ⑩ SODDING, SALT TOLERANT
- ⑪ STRIP REFLECTIVE CRACK CONTROL TREATMENT (24" WIDE)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	MIXTURE TYPE	AC TYPE	AIR VOIDS
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM)	PG 64-22	4% @ 50 GYR
	LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5 mm)	PG 64-22*	4% @ 50 GYR
PAVEMENT PATCHING	CLASS D PATCHES, 9" (HMA BINDER IL-19MM)	PG 64-22*	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

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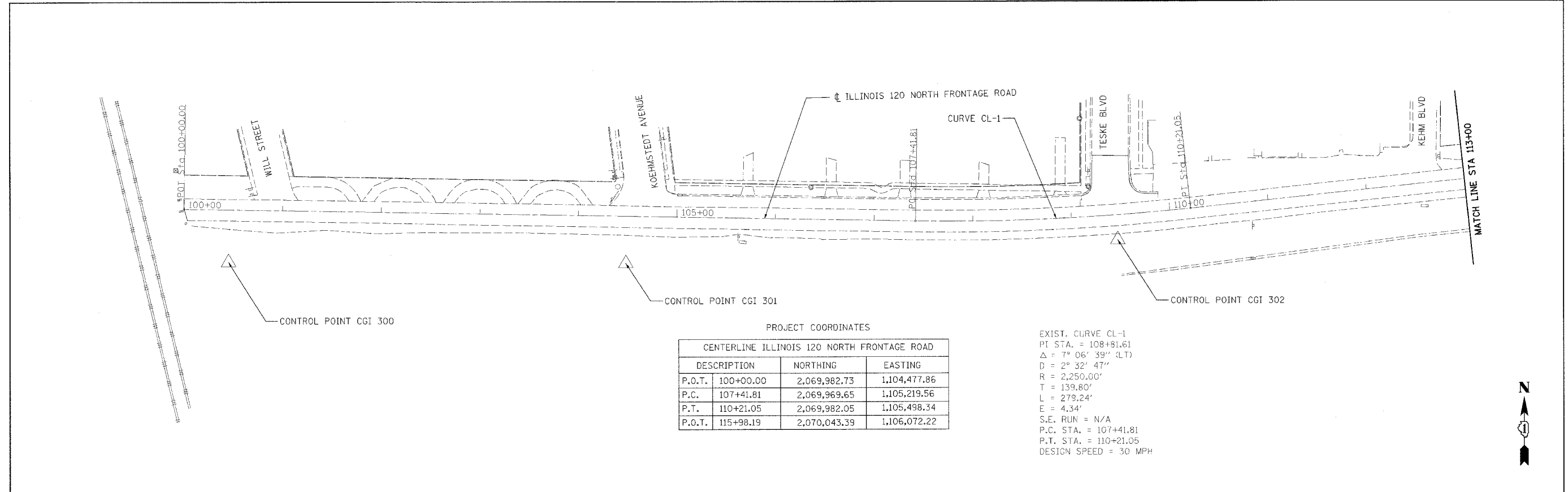
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	DATE - MAY 2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
TYPICAL SECTIONS**

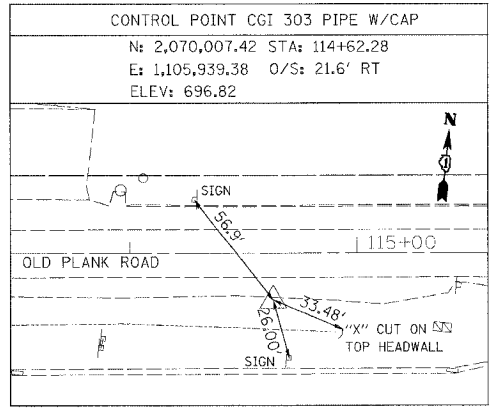
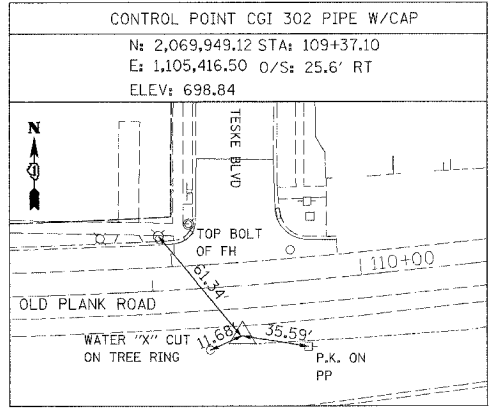
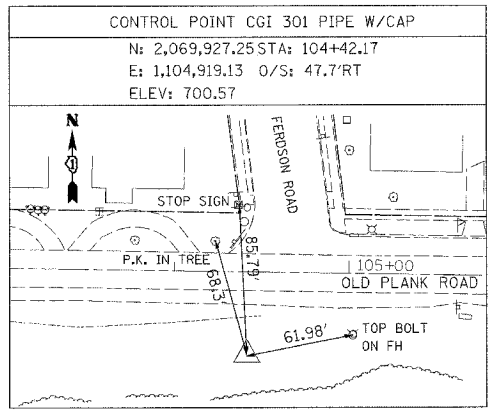
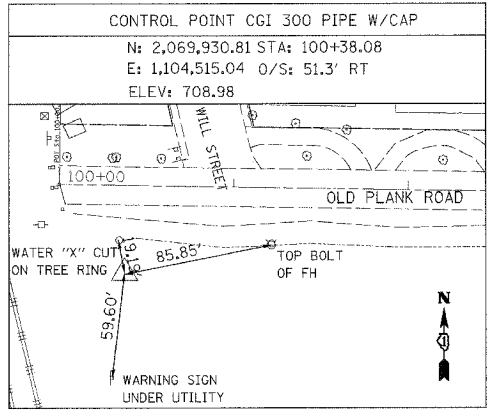
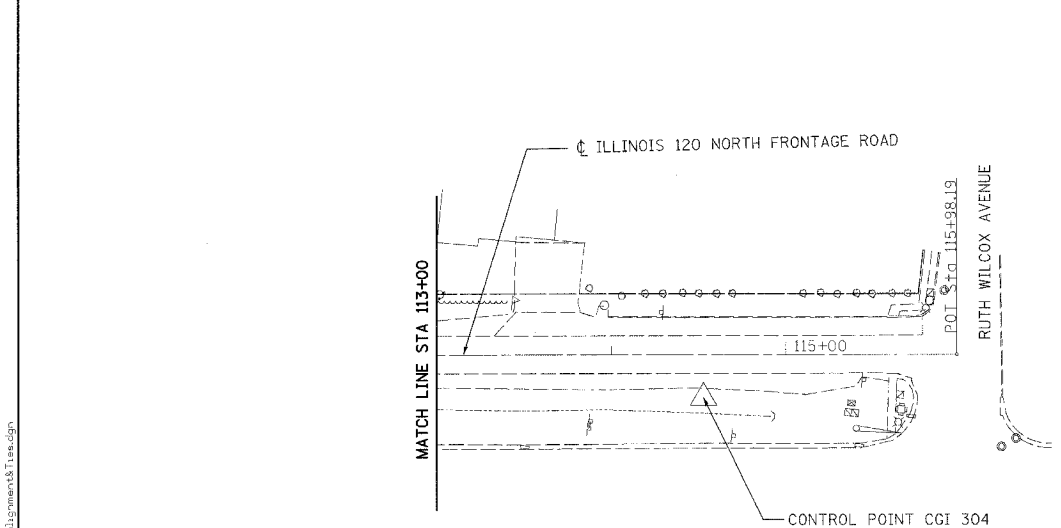
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FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60B45	



PROJECT COORDINATES

CENTERLINE ILLINOIS 120 NORTH FRONTAGE ROAD		
DESCRIPTION	NORTHING	EASTING
P.O.T.	100+00.00	2,069,982.73
P.C.	107+41.81	2,069,969.65
P.T.	110+21.05	2,069,982.05
P.O.T.	115+98.19	2,070,043.39

EXIST. CURVE CL-1
 PI STA. = 108+81.61
 $\Delta = 7^\circ 06' 39''$ (LT)
 $D = 2^\circ 32' 47''$
 $R = 2,250.00'$
 $T = 139.80'$
 $L = 279.24'$
 $E = 4.34'$
 S.E. RUN = N/A
 P.C. STA. = 107+41.81
 P.T. STA. = 110+21.05
 DESIGN SPEED = 30 MPH



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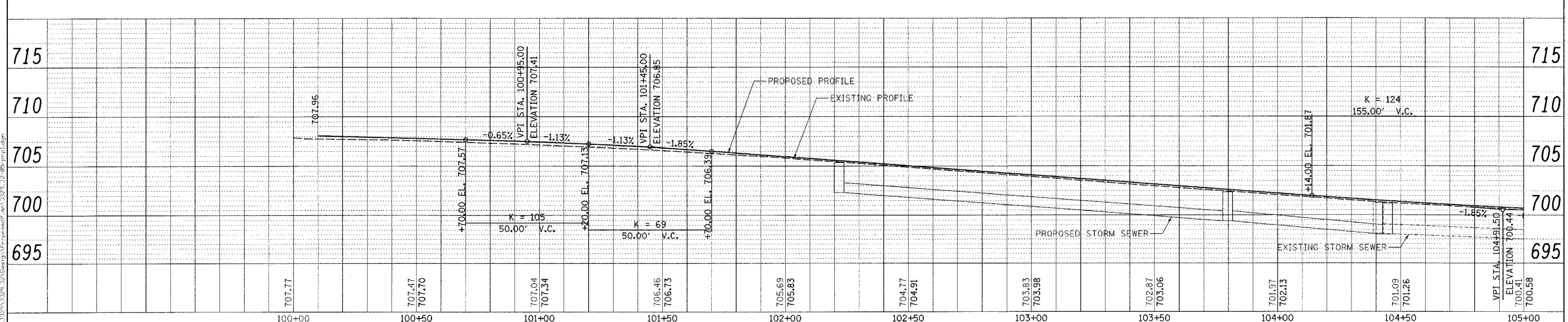
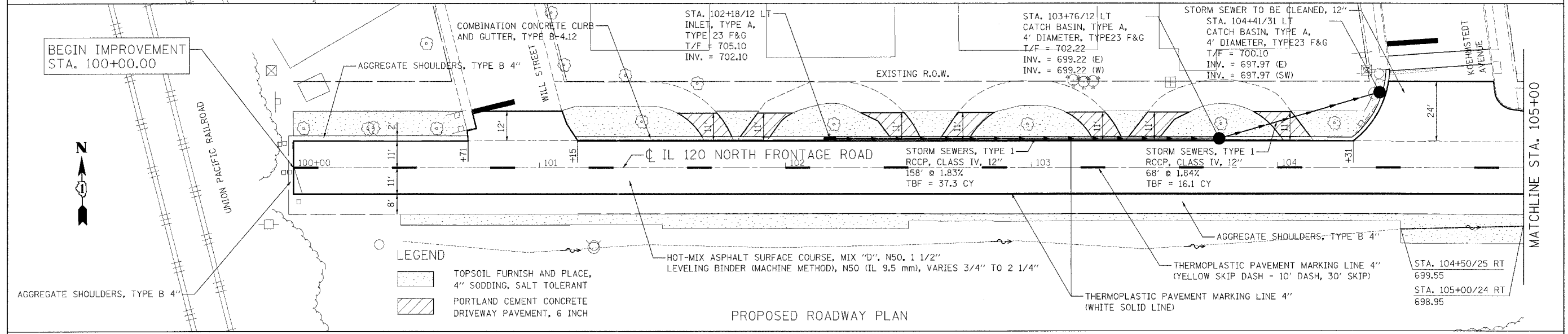
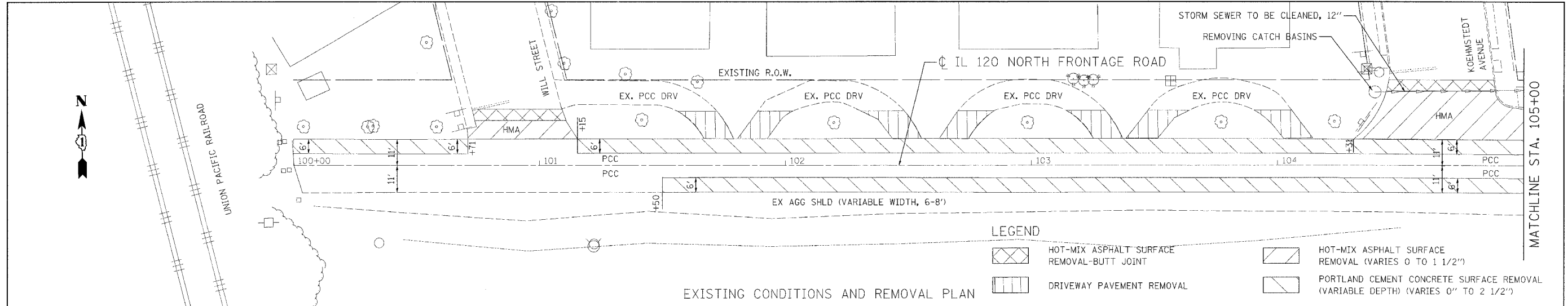
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	DATE - MAY 2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 ALIGNMENT AND CONTROL POINTS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B80	12 RS-3	LAKE	21	4B
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60B45	

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



PROFILE	DATE
BY	
REVISIONS	
NO.	

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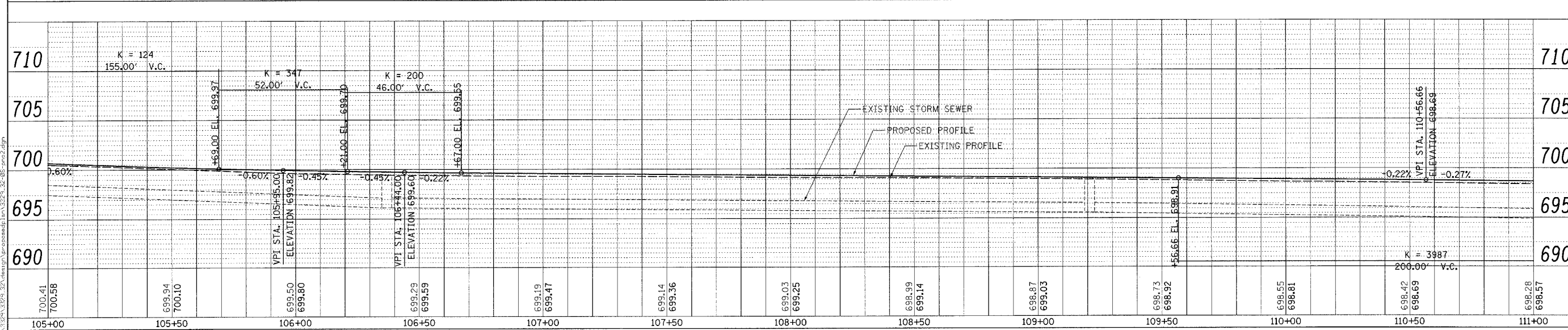
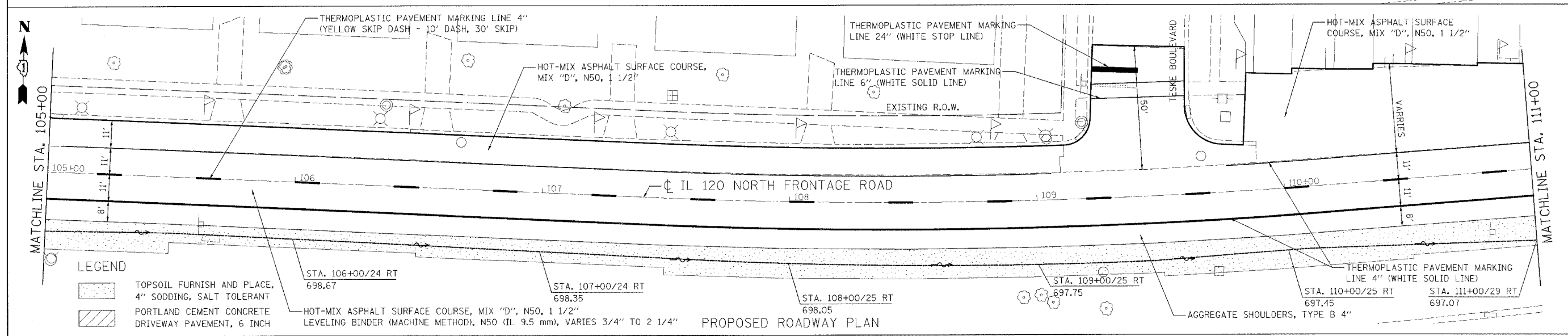
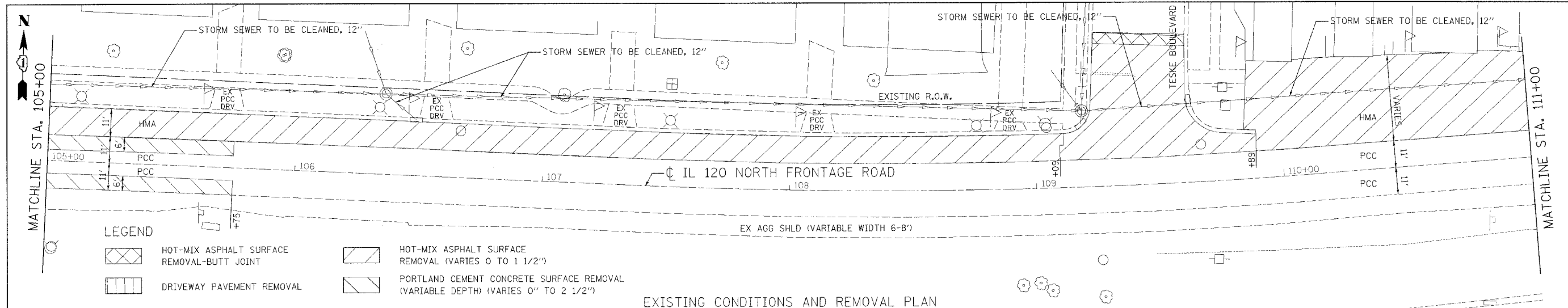
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PLOT SCALE = 1/8" = 1'-0"	DRAWN - JCC	REVISED -
PLOT DATE = 6/3/2008	CHECKED - MJL	REVISED -
	DATE - MAY 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
EXISTING CONDITIONS, REMOVAL AND PROPOSED ROADWAY PLAN

F.A.P. RTE. 880	SECTION 12 RS-3	COUNTY LAKE	TOTAL SHEETS 21	SHEET NO. 5
CONTRACT NO. 60B45			ILLINOIS FED. AID PROJECT	



DATE	
BY	
REVISED	
GRADES CHECKED	
SCALE	
NO.	

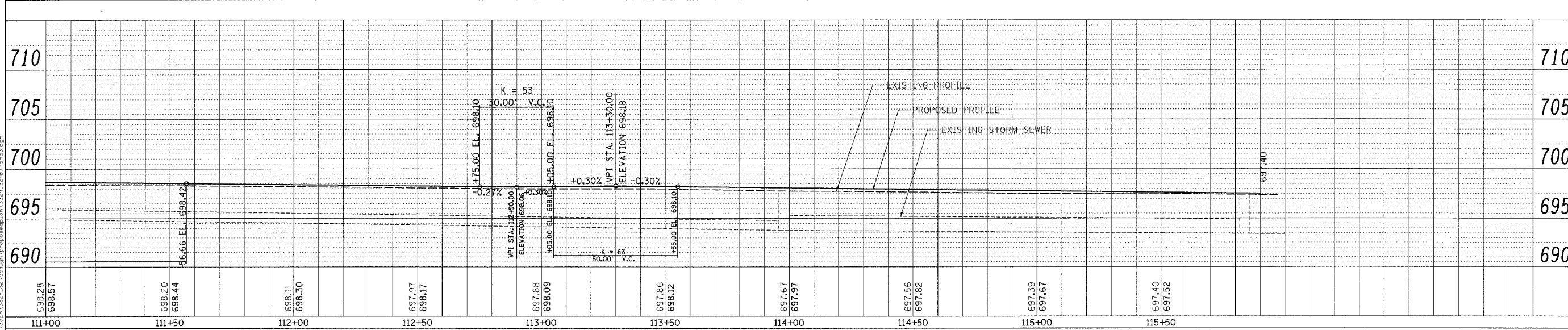
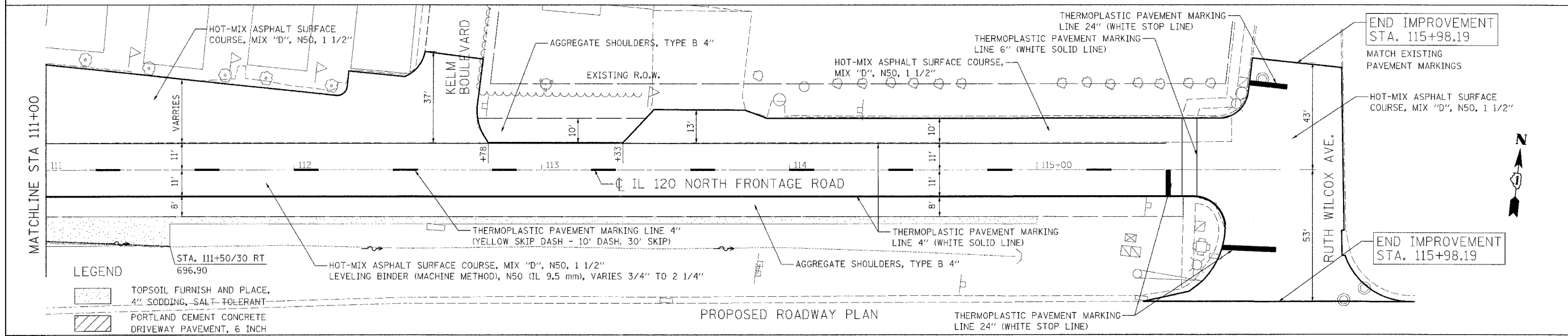
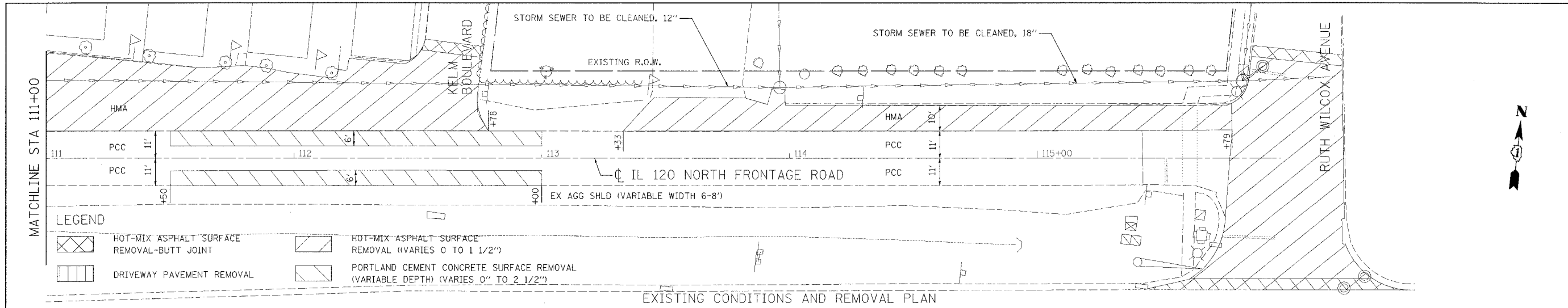
CG **Ciorba Group, Inc.**
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PLOT SCALE = 28.0000' / IN.	DRAWN - JCC	REVISED -
PLOT DATE = 6/3/2008	CHECKED - MJL	REVISED -
	DATE - MAY 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
EXISTING CONDITIONS, REMOVAL AND PROPOSED ROADWAY PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
880	12 RS-3	LAKE	21 6
CONTRACT NO. 60B45			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



DATE	BY

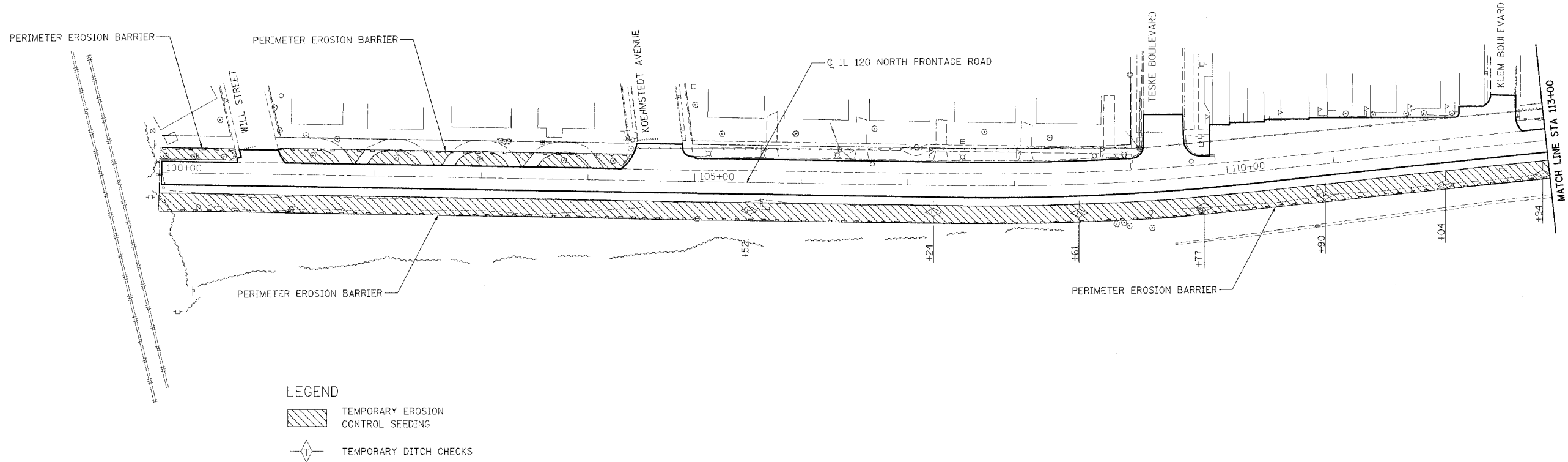
CG
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60658
 Tel. 773.776.4009 Fax 773.776.4014



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	DATE - MAY 2008	REVISED -

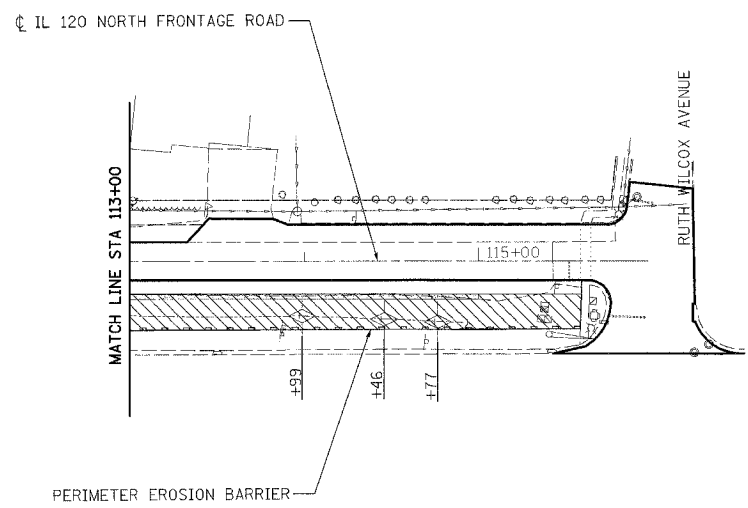
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
EXISTING CONDITIONS, REMOVAL AND PROPOSED ROADWAY PLAN

F.A.P. RTE. 880	SECTION 12 RS-3	COUNTY LAKE	TOTAL SHEETS 21	SHEET NO. 7
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- LEGEND
-  TEMPORARY EROSION CONTROL SEEDING
 -  TEMPORARY DITCH CHECKS



- LEGEND
-  TEMPORARY EROSION CONTROL SEEDING
 -  TEMPORARY DITCH CHECKS



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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.776.4009 Fax 773.776.4014

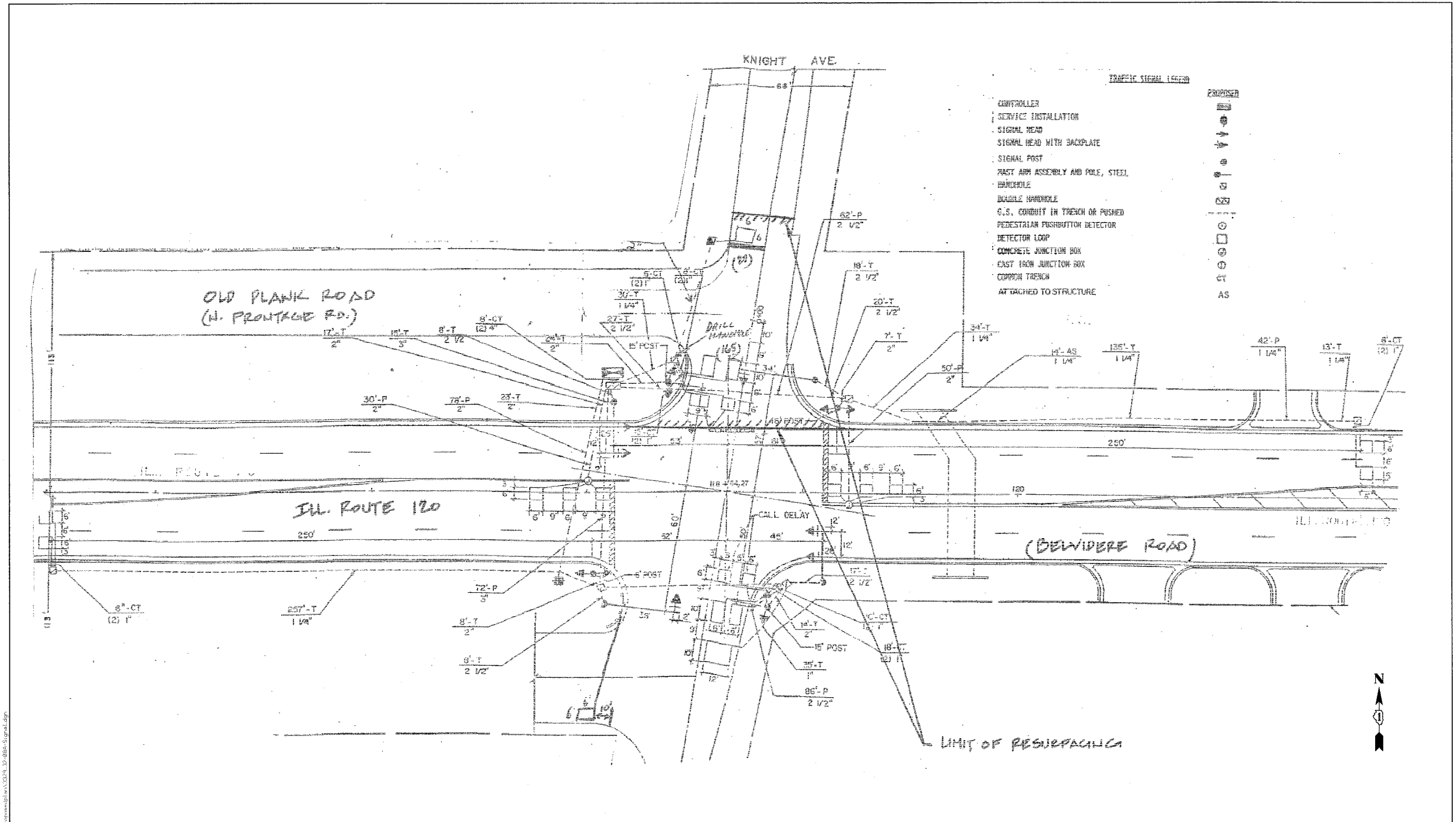
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	DATE - MAY 2008	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 EROSION AND SEDIMENT CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	8
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60B45	



- TRAFFIC SIGNAL LEGEND
- CONTROLLER
 - SERVICE INSTALLATION
 - SIGNAL HEAD
 - SIGNAL HEAD WITH BACKPLATE
 - SIGNAL POST
 - POST ARM ASSEMBLY AND POLE, STEEL
 - HANDHOLE
 - DOUBLE HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - PEDESTRIAN PUSHBUTTON DETECTOR
 - DETECTOR LOOP
 - CONCRETE JUNCTION BOX
 - CAST IRON JUNCTION BOX
 - COMMON TRENCH
 - ATTACHED TO STRUCTURE
- PROPOSED
- AS



FOR INFORMATION ONLY

FILE NAME: s:\proj\60329_30\dwg\signal\60329_30-88a-signal.dgn

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014

USER NAME = jcoleman	DESIGNED - NT	REVISED -
	DRAWN - NT	REVISED -
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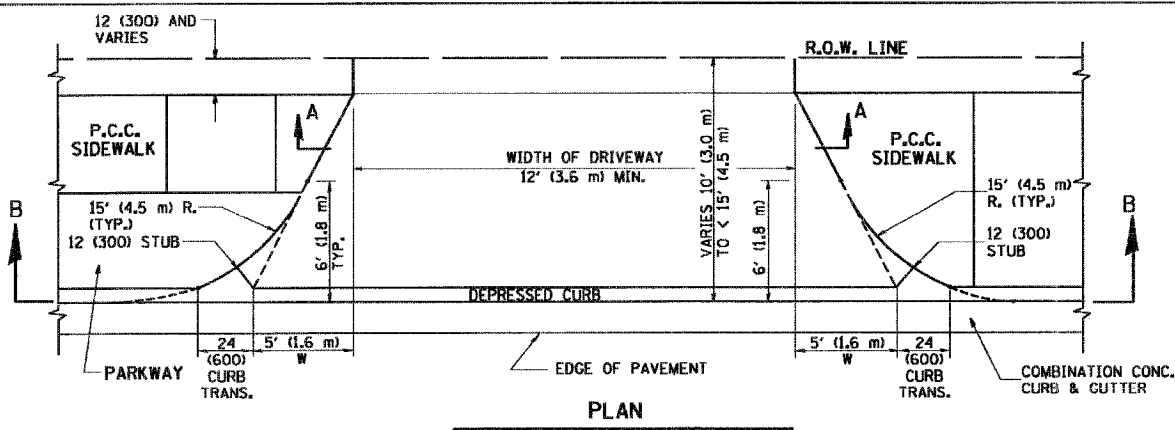
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 EXISTING TRAFFIC SIGNAL PLAN**

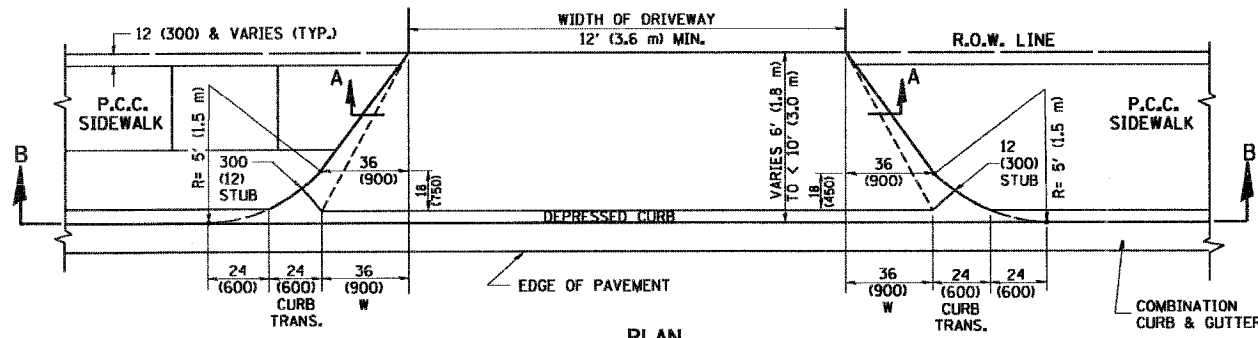
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F.A.P. RTE. 880	SECTION 12 RS-3	COUNTY LAKE	TOTAL SHEETS 21	SHEET NO. 8A
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

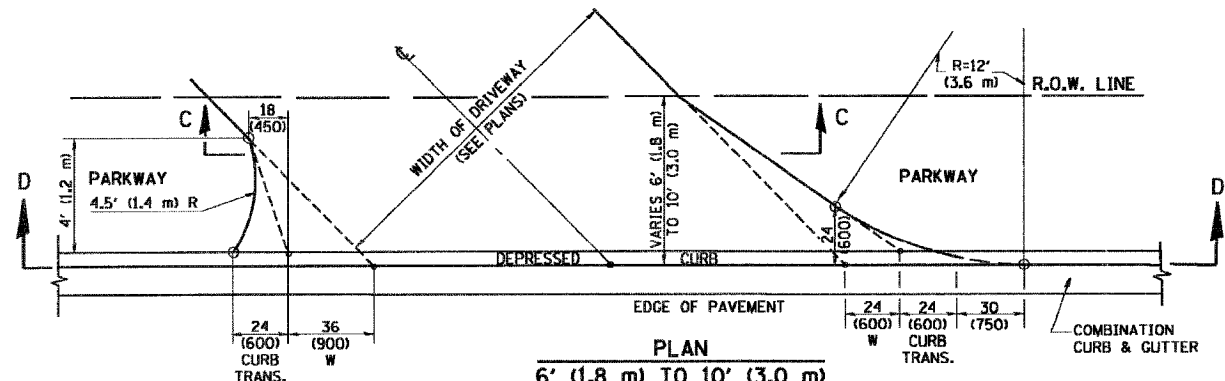
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	9
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



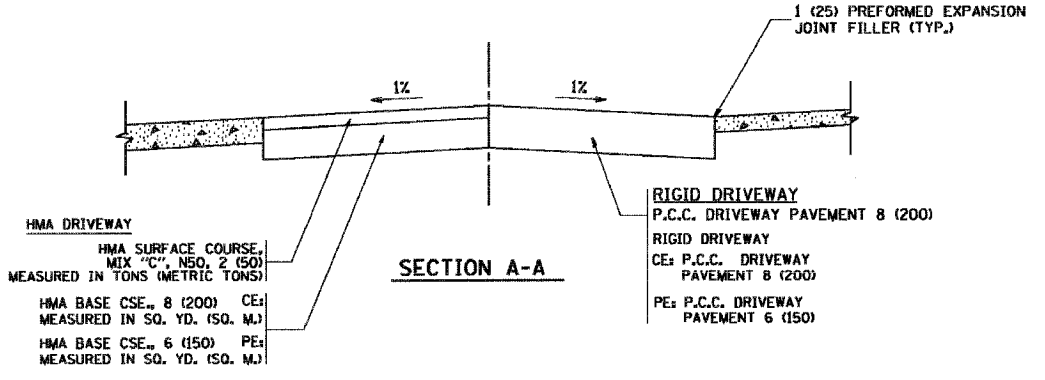
PLAN
10' (3.0 m) TO < 15' (4.5 m)



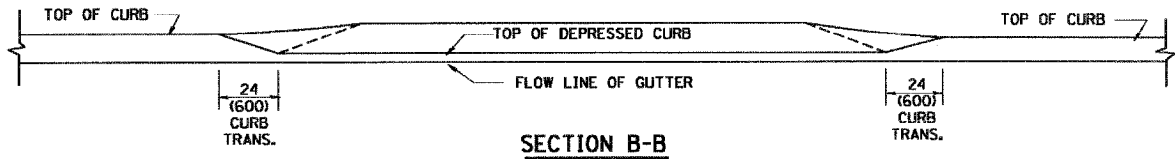
PLAN
6' (1.8 m) TO < 10' (3.0 m)



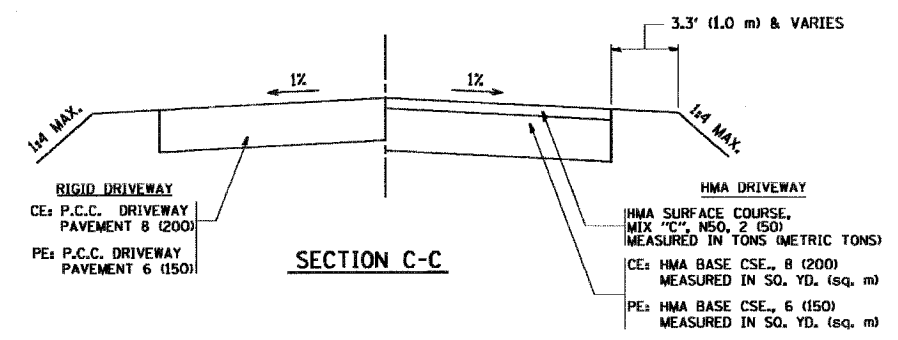
PLAN
6' (1.8 m) TO 10' (3.0 m)



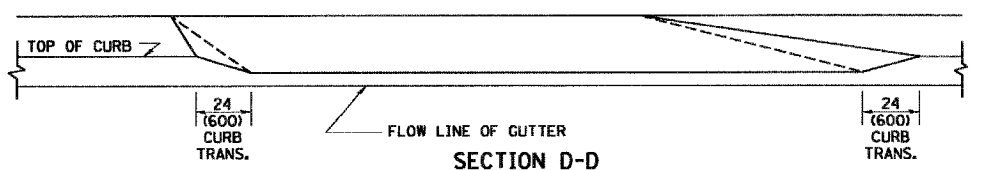
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

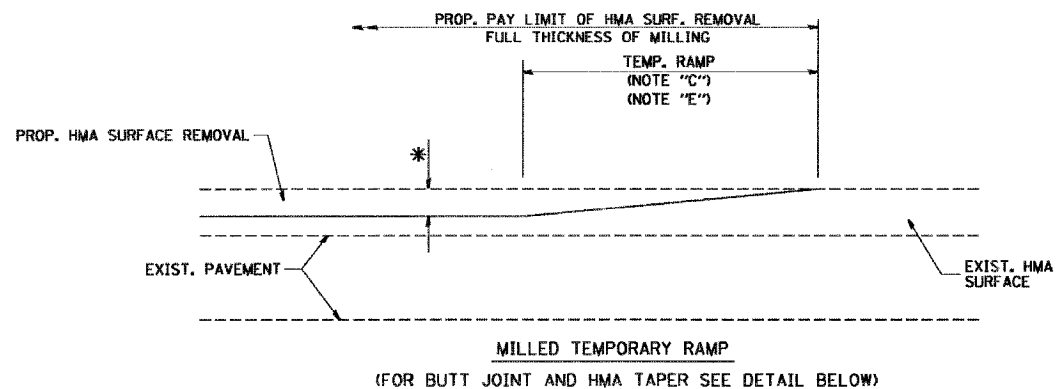
DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND
FACE OF CURB < 15' (4.5 m)

REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/01
P. LOFLEUR	04/15/03
R. BORO	01/01/07

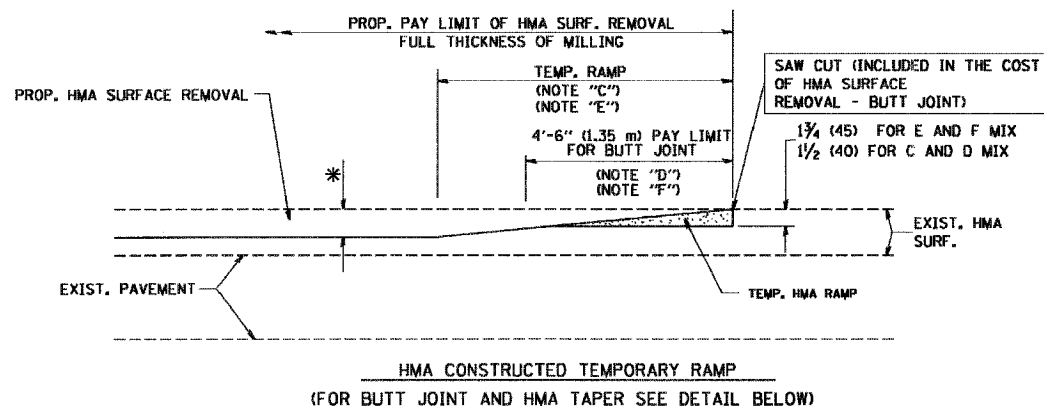
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HORIZ. NONE
DRAWN BY
CHECKED BY

PLOT DATE: 3/14/2007
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PLOT SCALE: 1/8" = 1'-0"
USER NAME: dshah

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	10
STA.		TO STA.		
FED. RDWD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

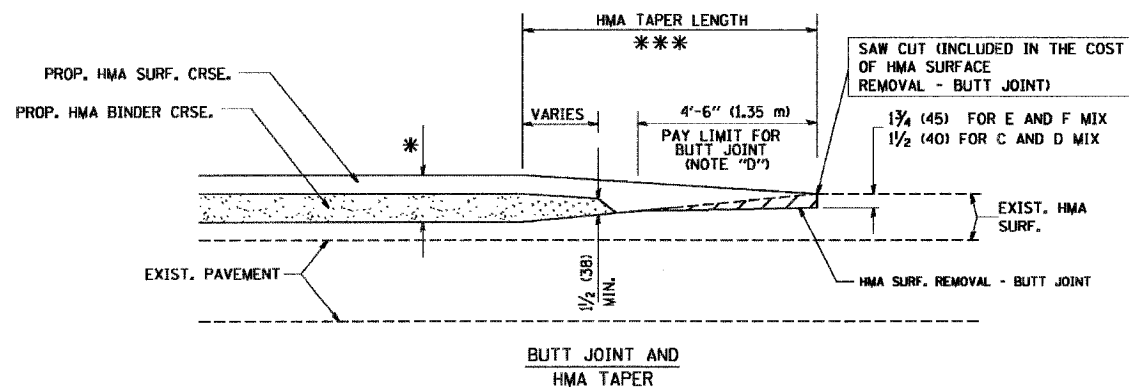


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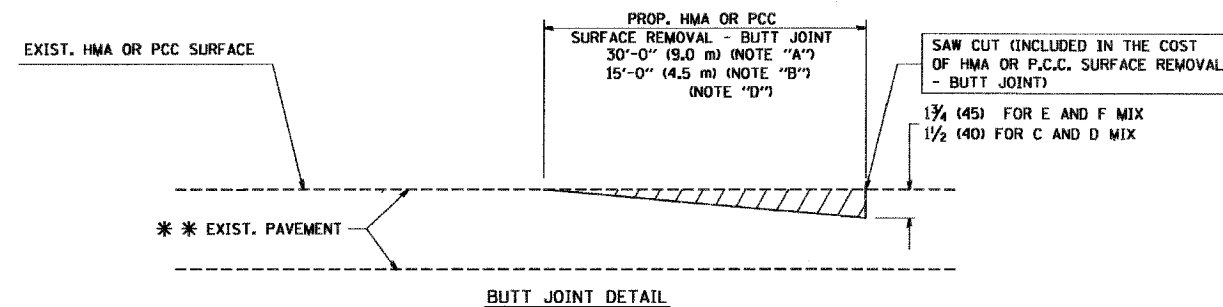


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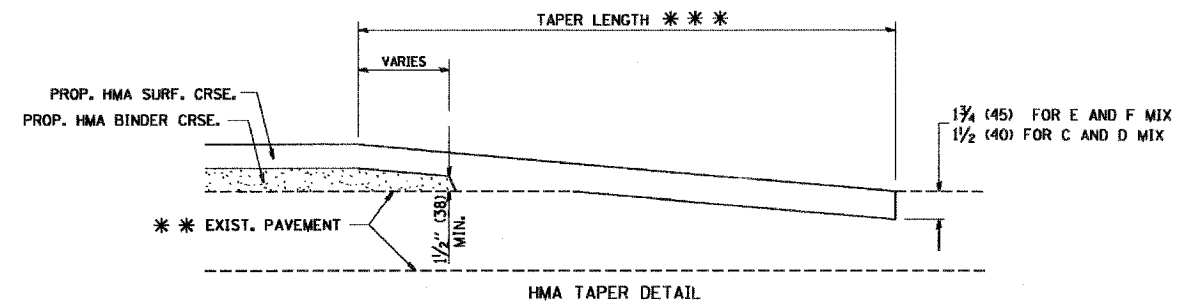
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT 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

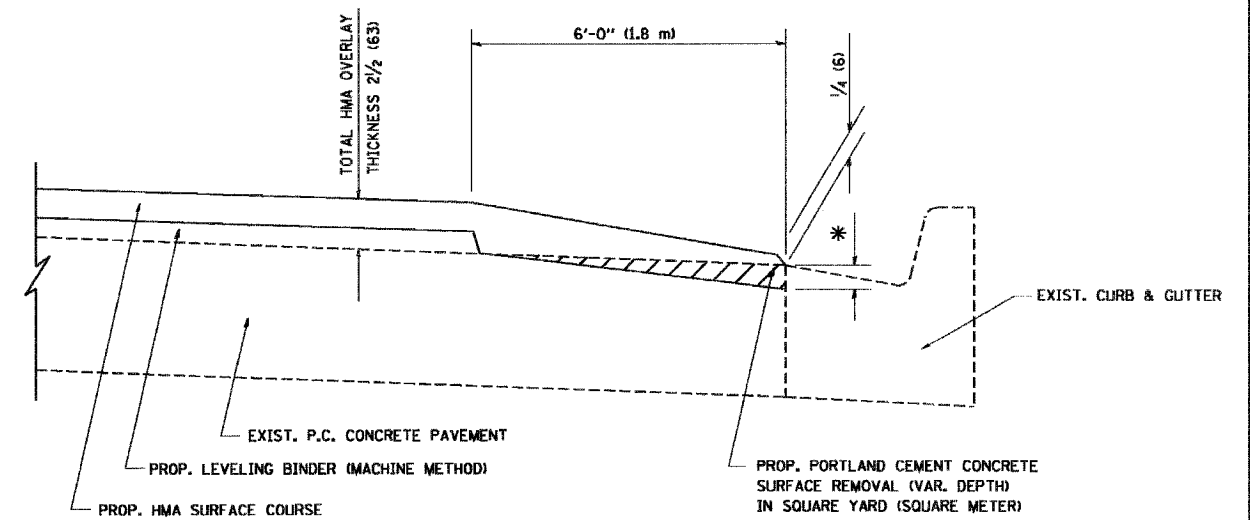
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HORIZ.

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)

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 USER NAME: bward

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	LEVELING BINDER		* MILLING AT GUTTER FLAG
	MIX	THICKNESS	
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. GOMEZ	12/21/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

SCALE: VERT. NONE
HORIZ. NONE

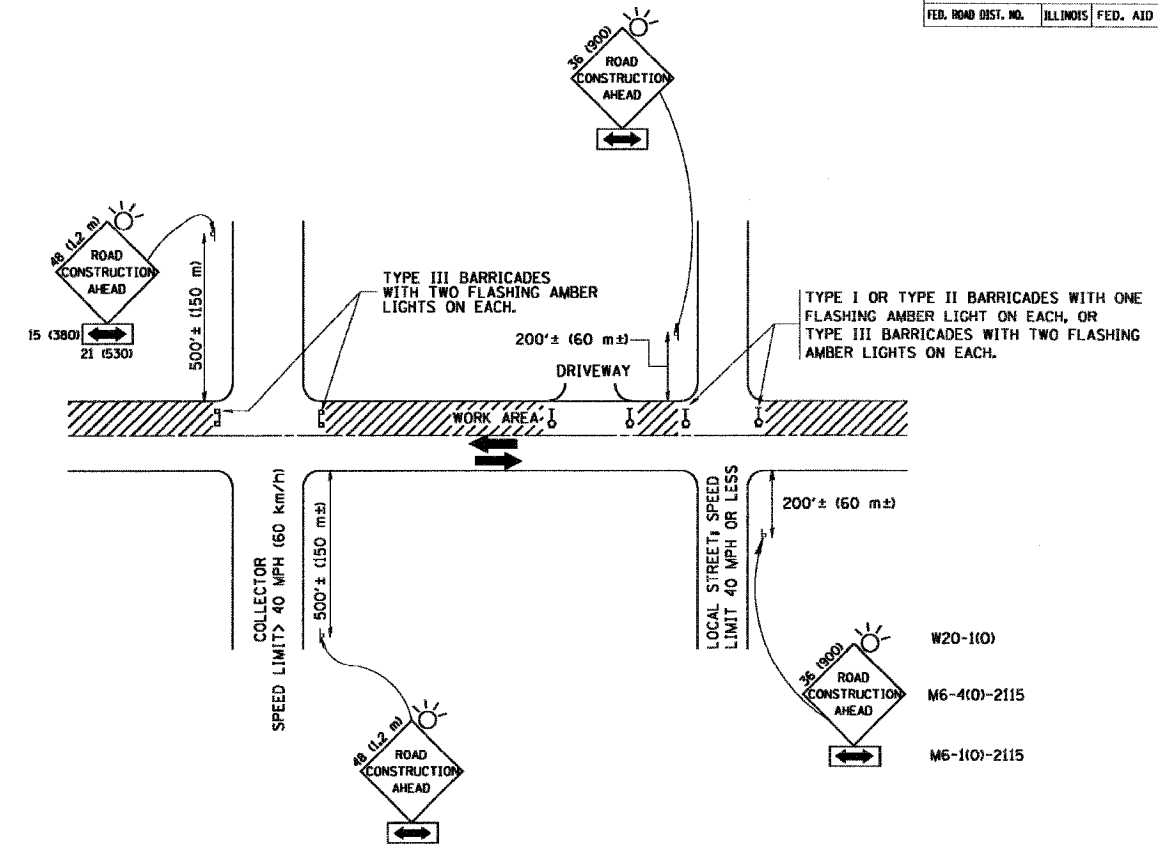
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CHECKED BY A. ABBAS

BD400-06 (BD33)

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USER NAME = bward

CONTRACT NO.				
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			21	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

NOTES:

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

- 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

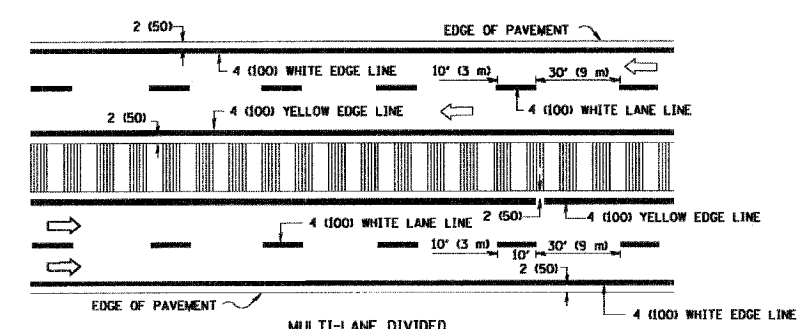
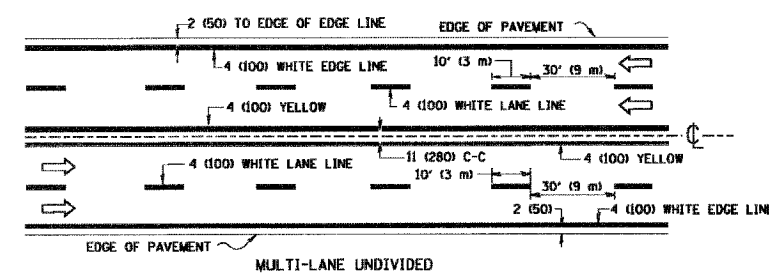
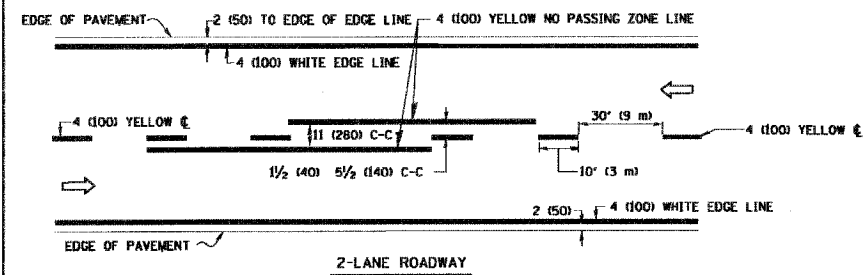
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TC-10

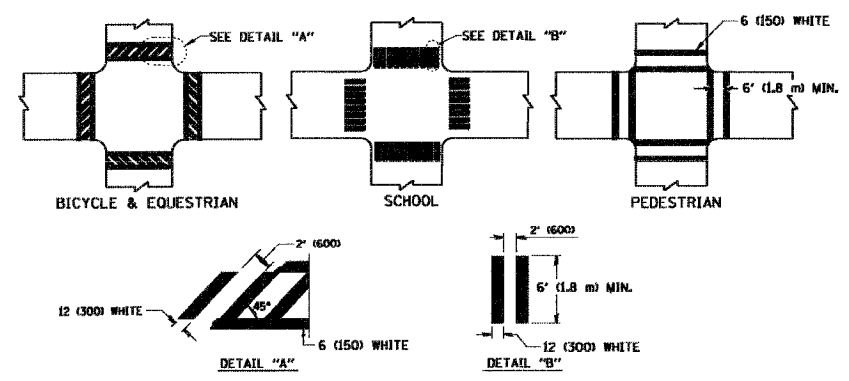
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USER NAME = bbeard

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			21	13
STA. TO STA.		ILLINOIS FED. AID PROJECT		

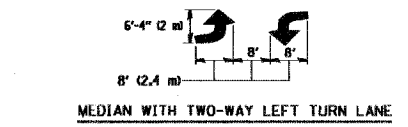
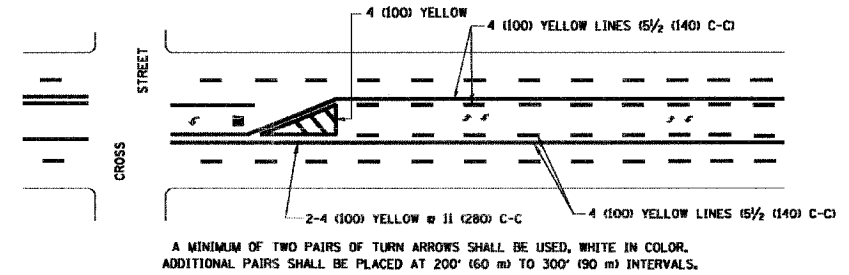
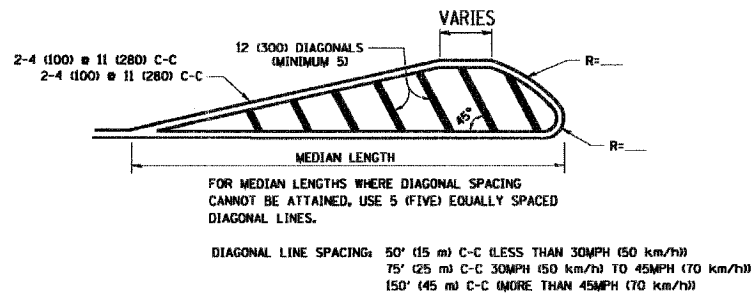
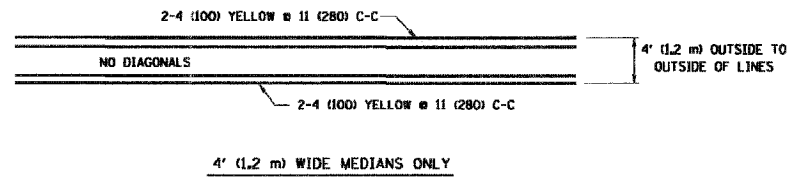


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

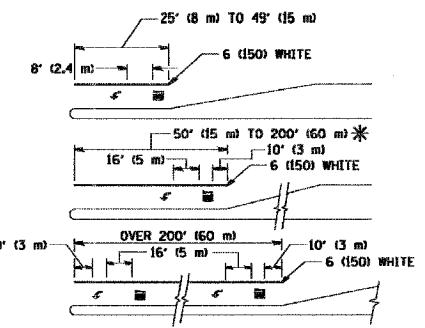
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

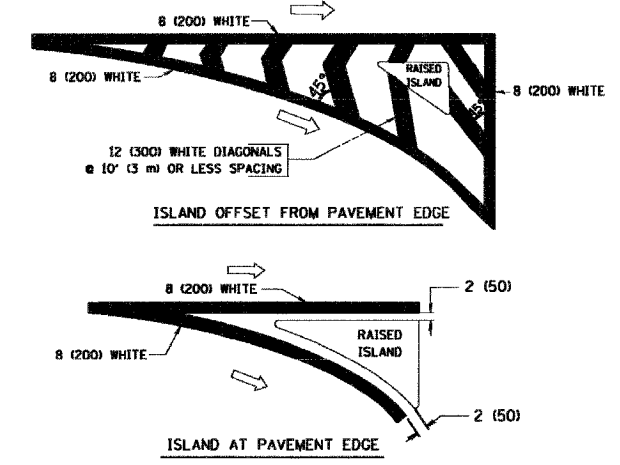


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* 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 LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 # 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 # 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 # 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 # 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 # 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 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.

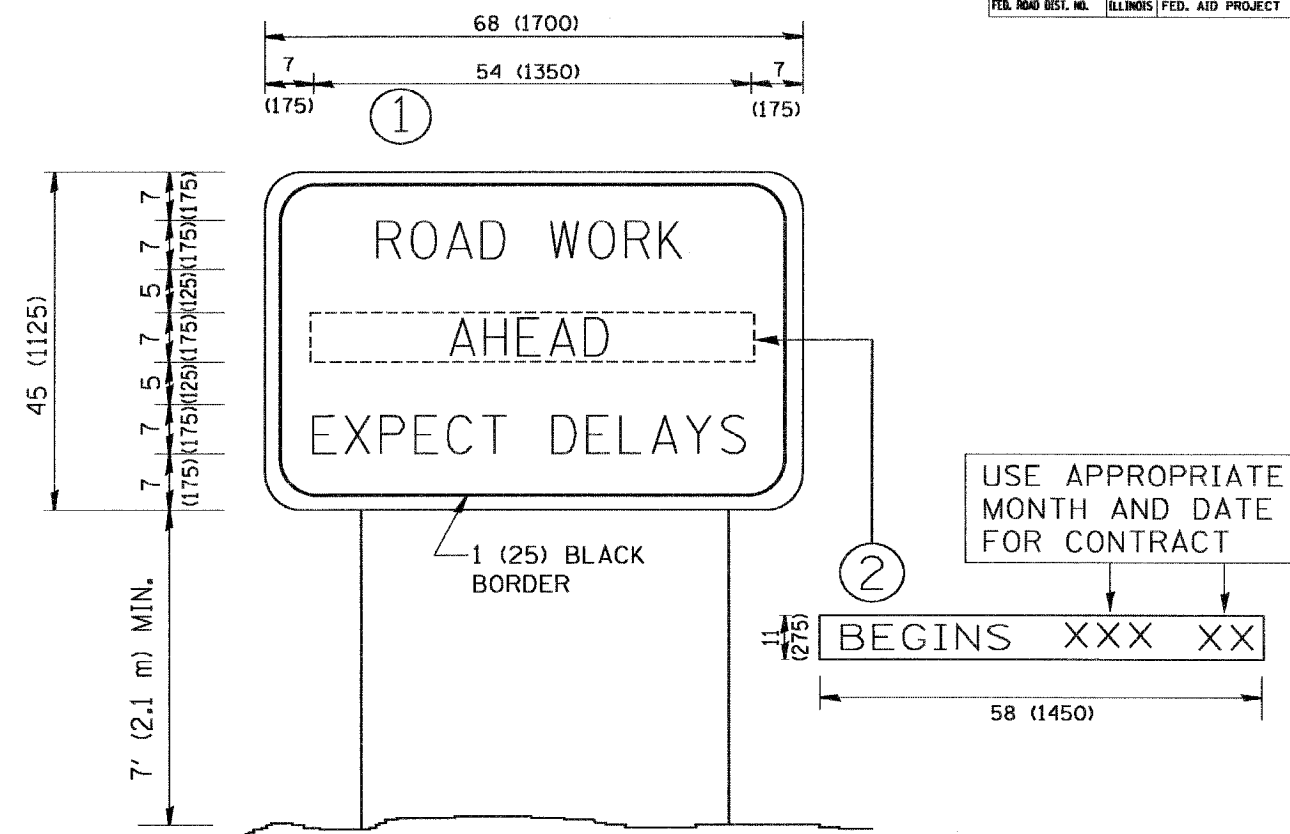
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE DRAWN BY CADD CHECKED BY

PLOT DATE = 3/1/2007
FILE NAME = N:\projects\113336p
PLOT SCALE = 0.8000 / IN.
USER NAME = bbeard

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

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

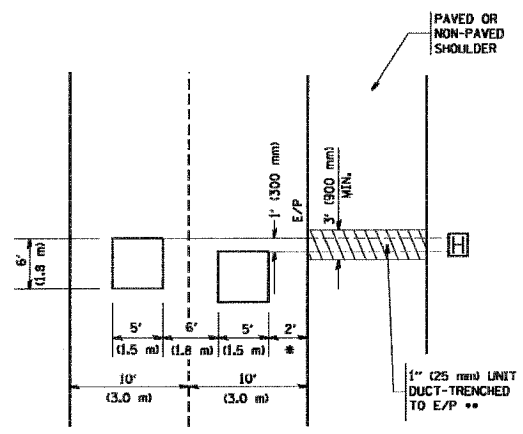
SCALE: NONE
DRAWN BY DESIGN
CHECKED BY

PLOT DATE = 2/10/2007
FILE NAME = K:\GIS\101\1022.dgn
PLOT SCALE = 0.8000 / 1 in.
USER NAME = beard-d

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

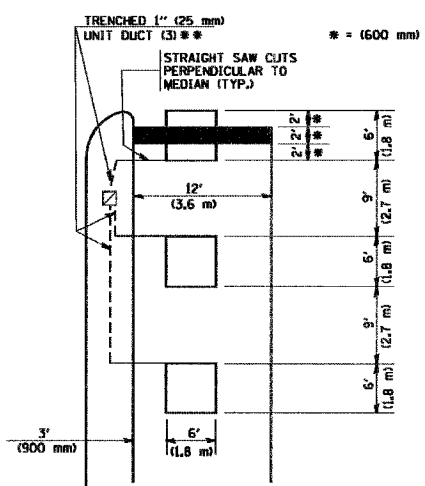


* = (600 mm)

** 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)**

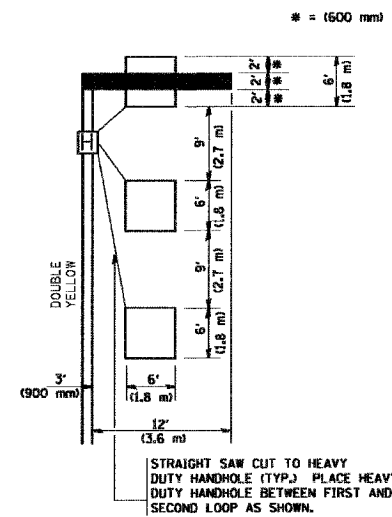
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B14001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

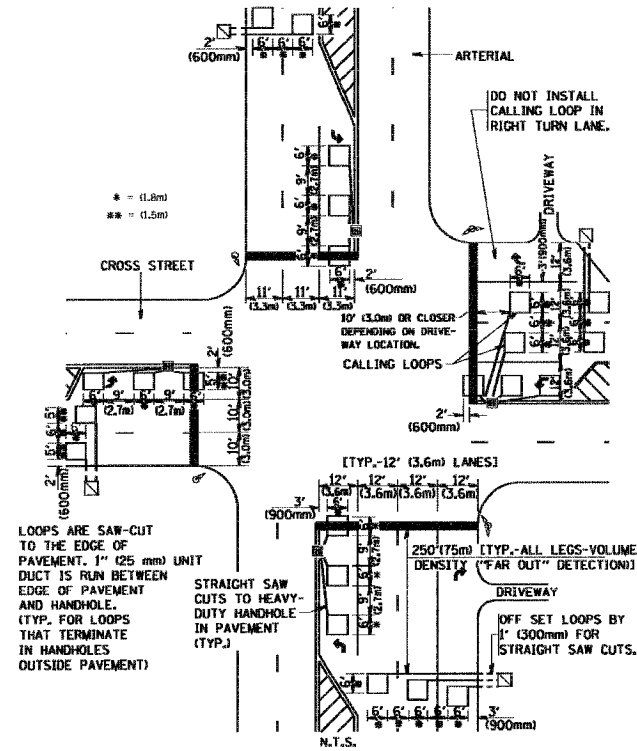
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



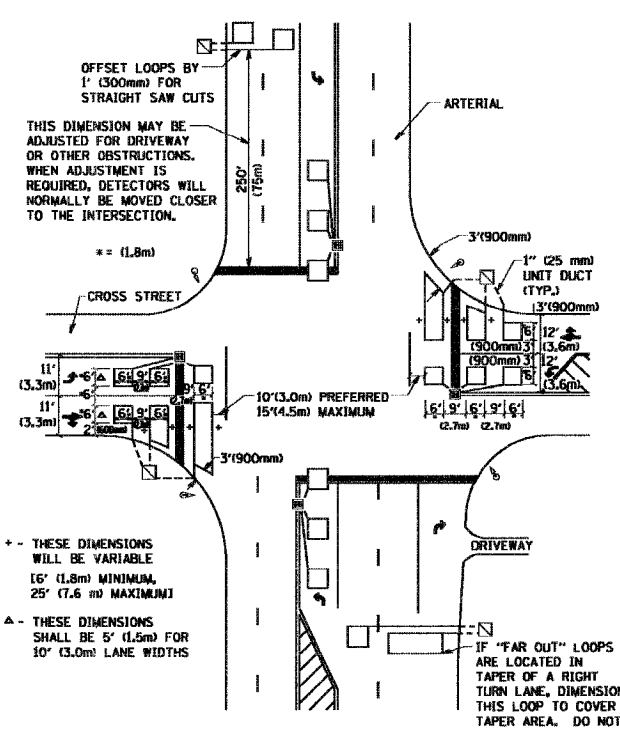
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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.

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.

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.

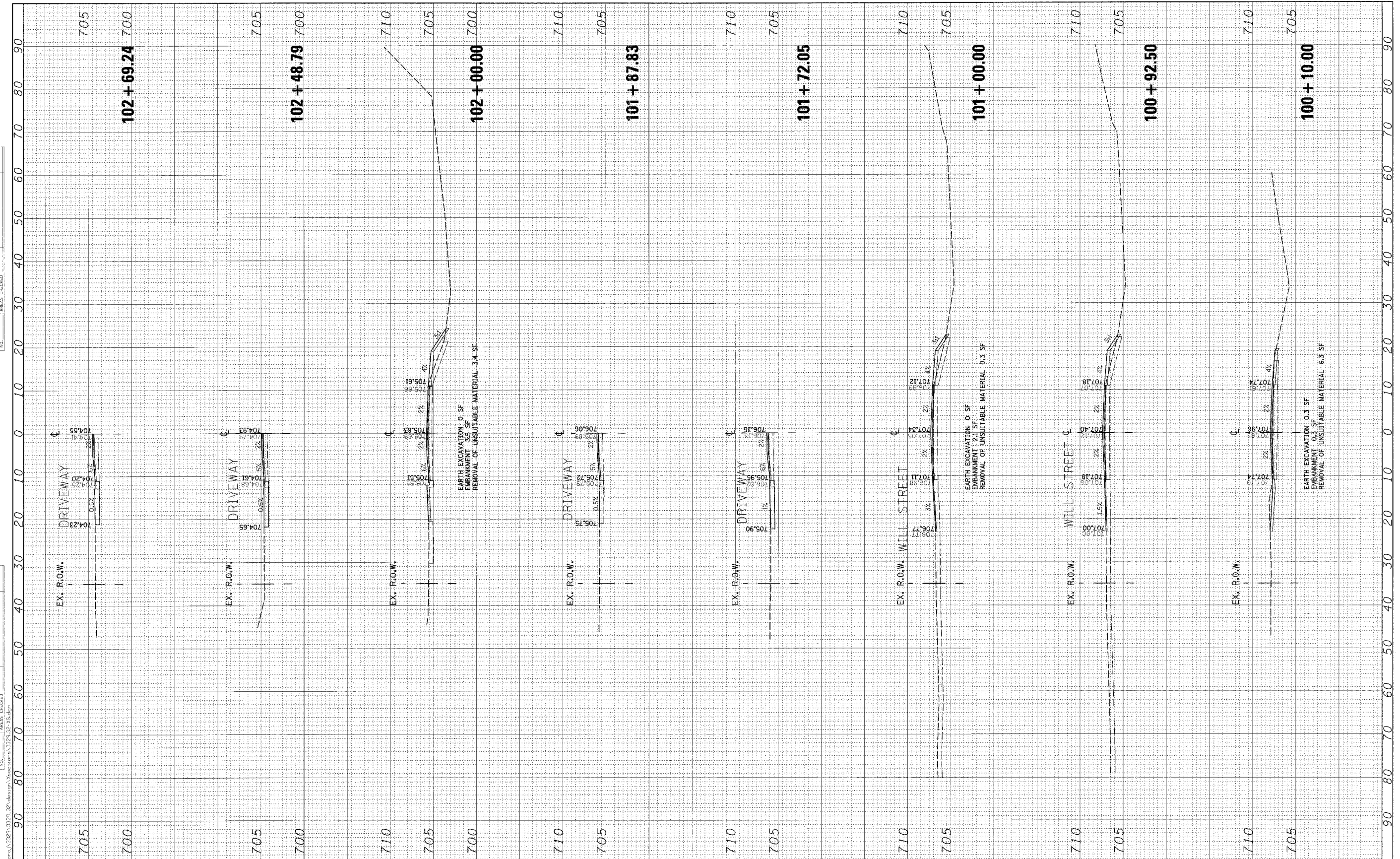
REVISIONS	
NAME	DATE

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

DATE: 8/17/97
FILE NAME: 804404V01R2.dwg
PLOT SCALE: 0.88888 / 1 in.
USER NAME: bharadwaj

F.M.L. SURVEYED _____ BY _____ DATE _____
 SHERIDAN (PLOT) _____
 NOTE BOOK _____
 NO. _____
 AREAS CHECKED _____

ORIGINAL SURVEYED _____ BY _____ DATE _____
 SHERIDAN (PLOT) _____
 NOTE BOOK _____
 NO. _____
 AREAS CHECKED _____



CG Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4000 Fax 773.775.4014

USER NAME = jcc@man	DESIGNED - JCC	REVISED -
DRAWN - JCC	REVISOR -	
PLDT SCALE = 10.00/20' / IN.	CHECKED - MJL	REVISED -
PLDT DATE = 6/3/2008	DATE - MAY 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

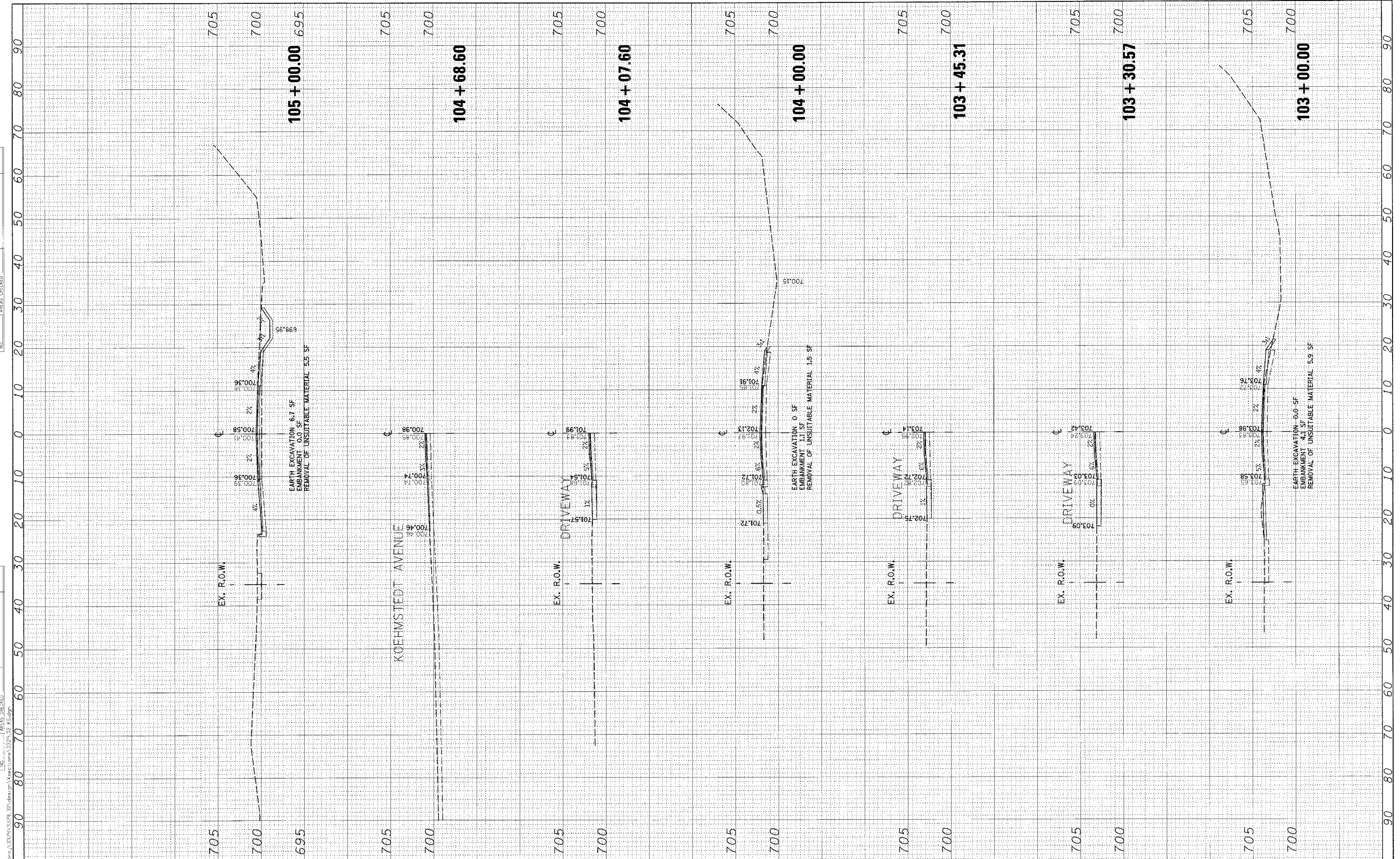
ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 100+00.00 TO STA. 102+69.24

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	16
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY PLOTTED
NOTE BOOK NO. _____
DATE _____

ORIGINAL SURVEY PLOTTED
NOTE BOOK NO. _____
DATE _____



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jcalemen	DESIGNED - JCC	REVISED -
DRAWN - JCC	REVISIONS -	
CHECKED - MJL	DATE - MAY 2008	REVISED -
PLOT SCALE = 1/8" = 10.00'		
PLOT DATE = 6/3/2008		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

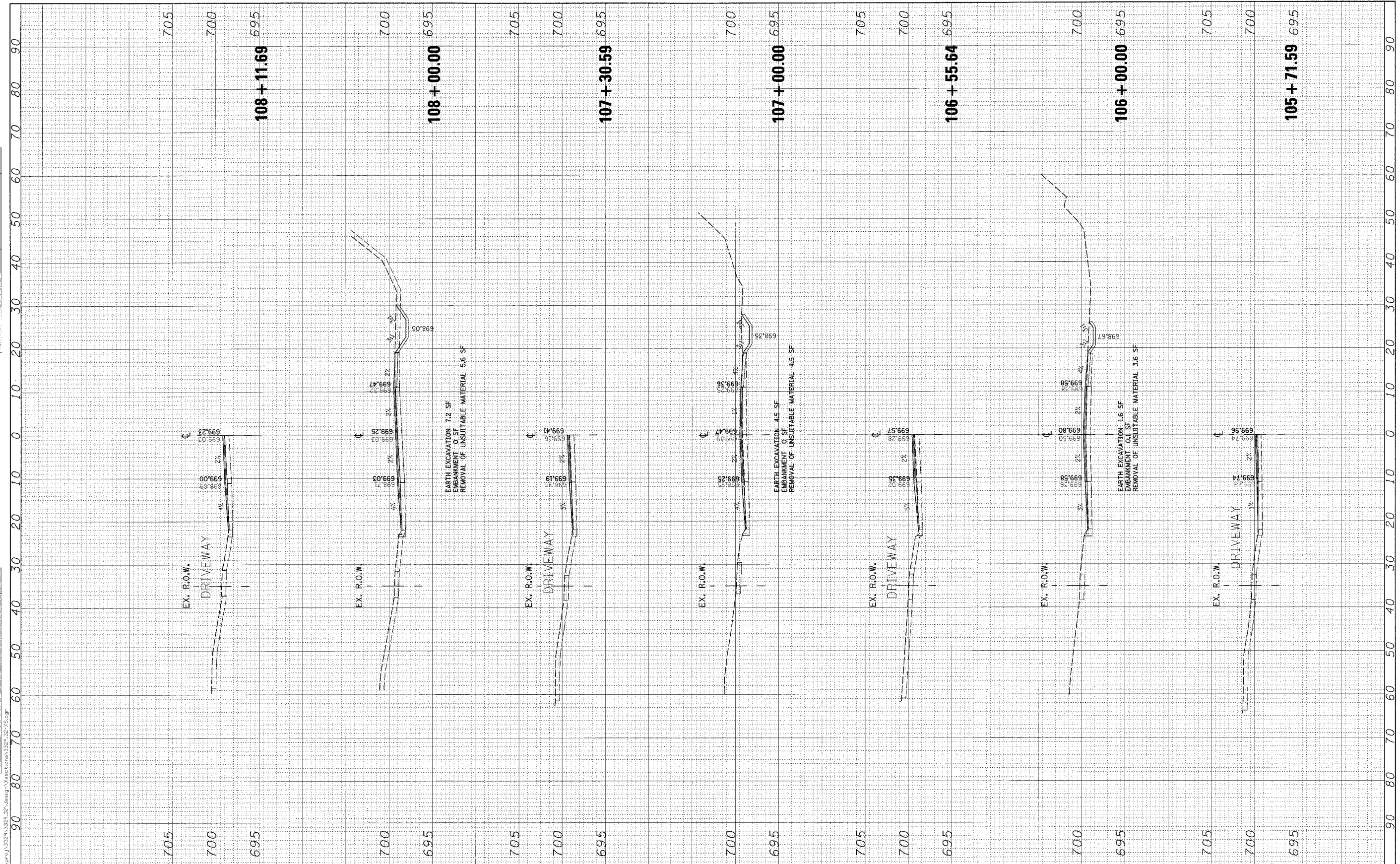
**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 103+00.00 TO STA. 105+00.00

F.A.P. RTE. 880	SECTION 12 RS-3	COUNTY LAKE	TOTAL SHEETS 21	SHEET NO. 17
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME - jcoleman	DESIGNED - JCC	REVISED -
PLOT SCALE - 1/8"=20' 0" / 1"	DRAWN - JCC	REVISED -
PLOT DATE - 6/3/2008	CHECKED - MJL	REVISED -
DATE - MAY 2008		REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

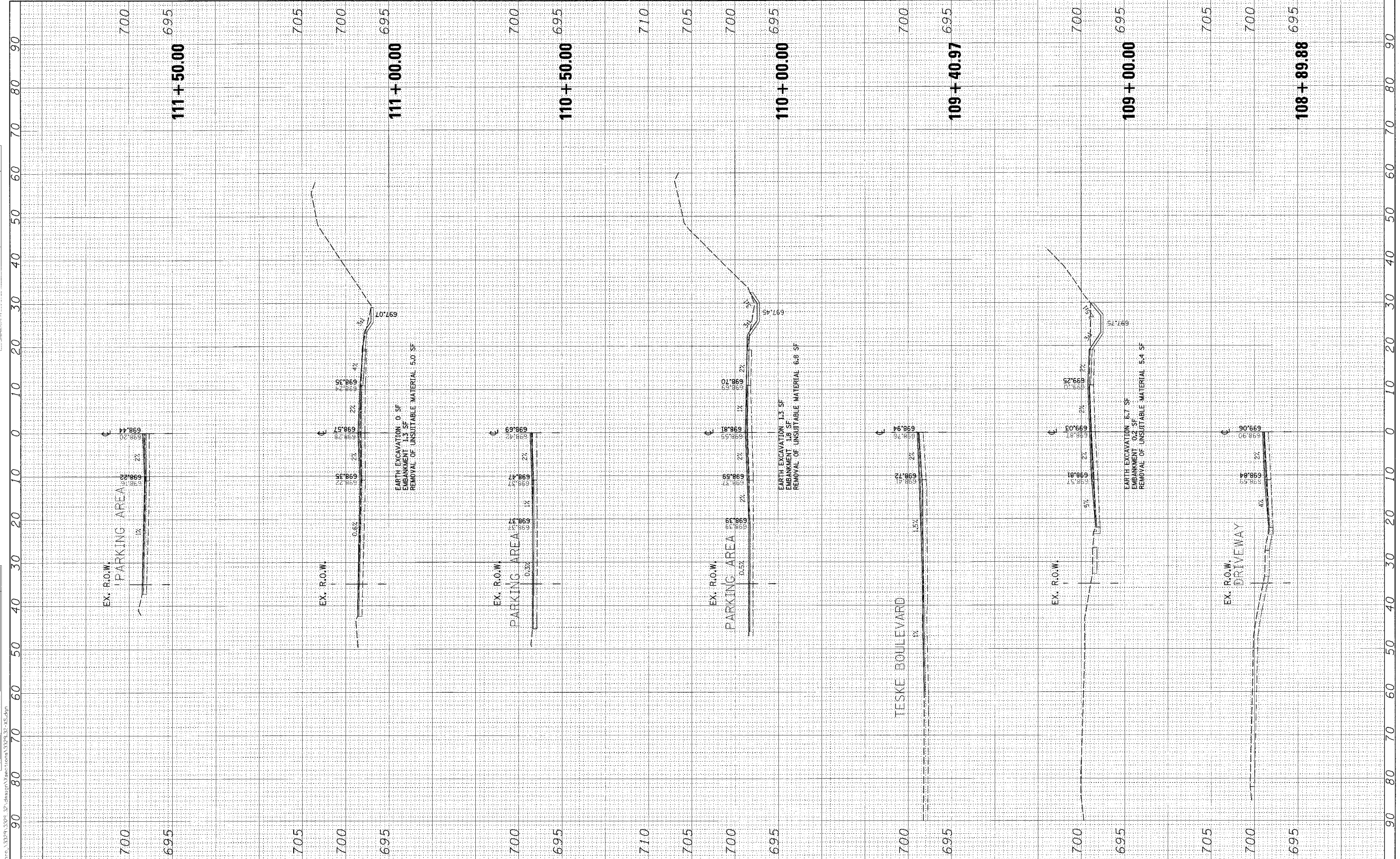
**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 105+71.59 TO STA. 108+11.69

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	18
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60B45	

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

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



Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5557 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60658
 Tel. 773.775.4000 Fax 773.775.4014

USER NAME = jcoleman	DESIGNED = JCC	REVISED -
	DRAWN = JCC	REVISED -
PLLOT SCALE = 10.0000' / 1"	CHECKED = MJL	REVISED -
PLLOT DATE = 6/3/2008	DATE = MAY 2008	REVISED -

DESIGNED - JCC	REVISED -
DRAWN - JCC	REVISED -
CHECKED - MJL	REVISED -
DATE - MAY 2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

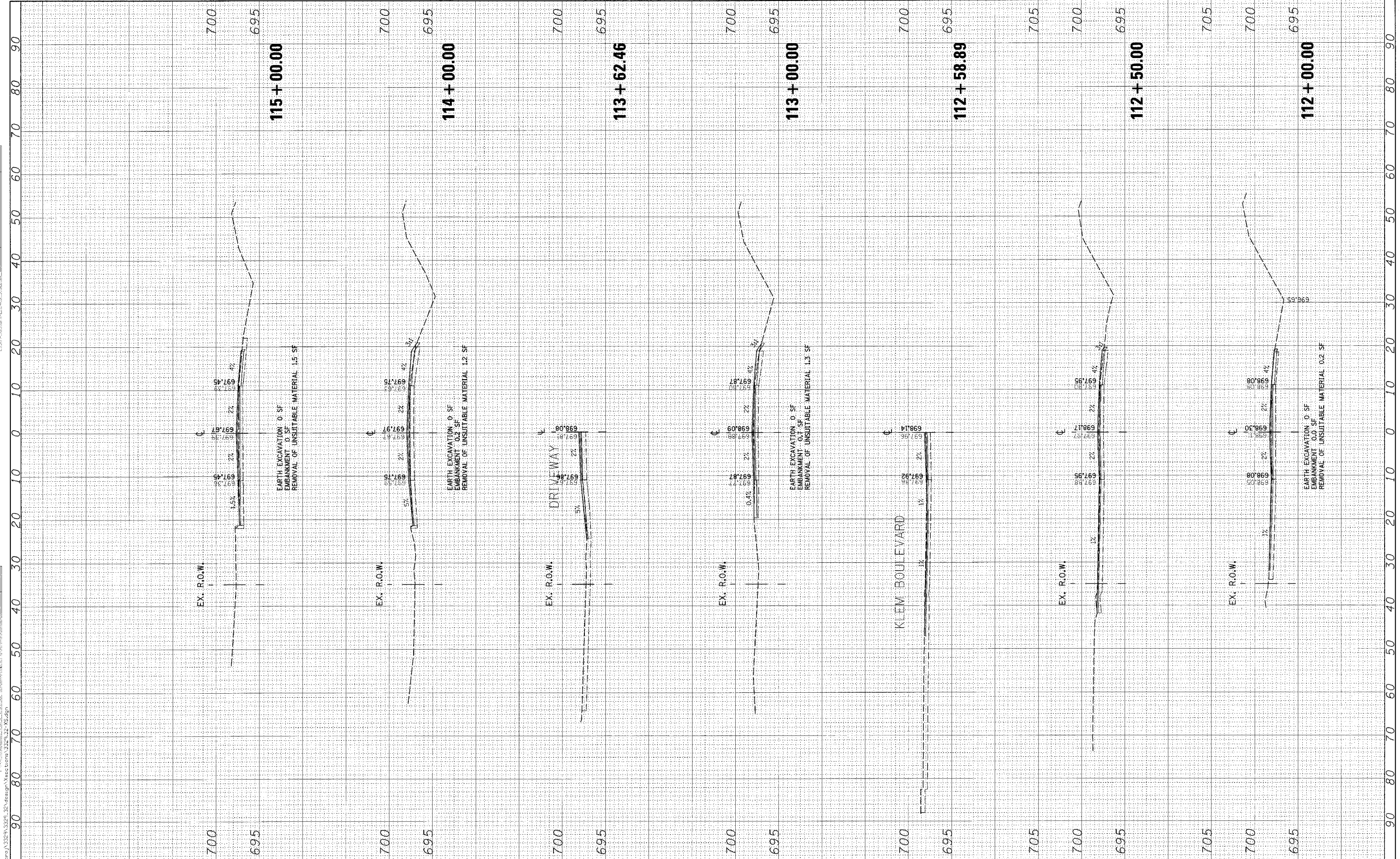
**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 108+89.88 TO STA. 111+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	12 RS-3	LAKE	21	19
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



CG Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jgouliman	DESIGNED - JCC	REVISED -
DRAWN - JCC	CHECKED - M.J.L.	REVISED -
DATE - MAY 2008		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

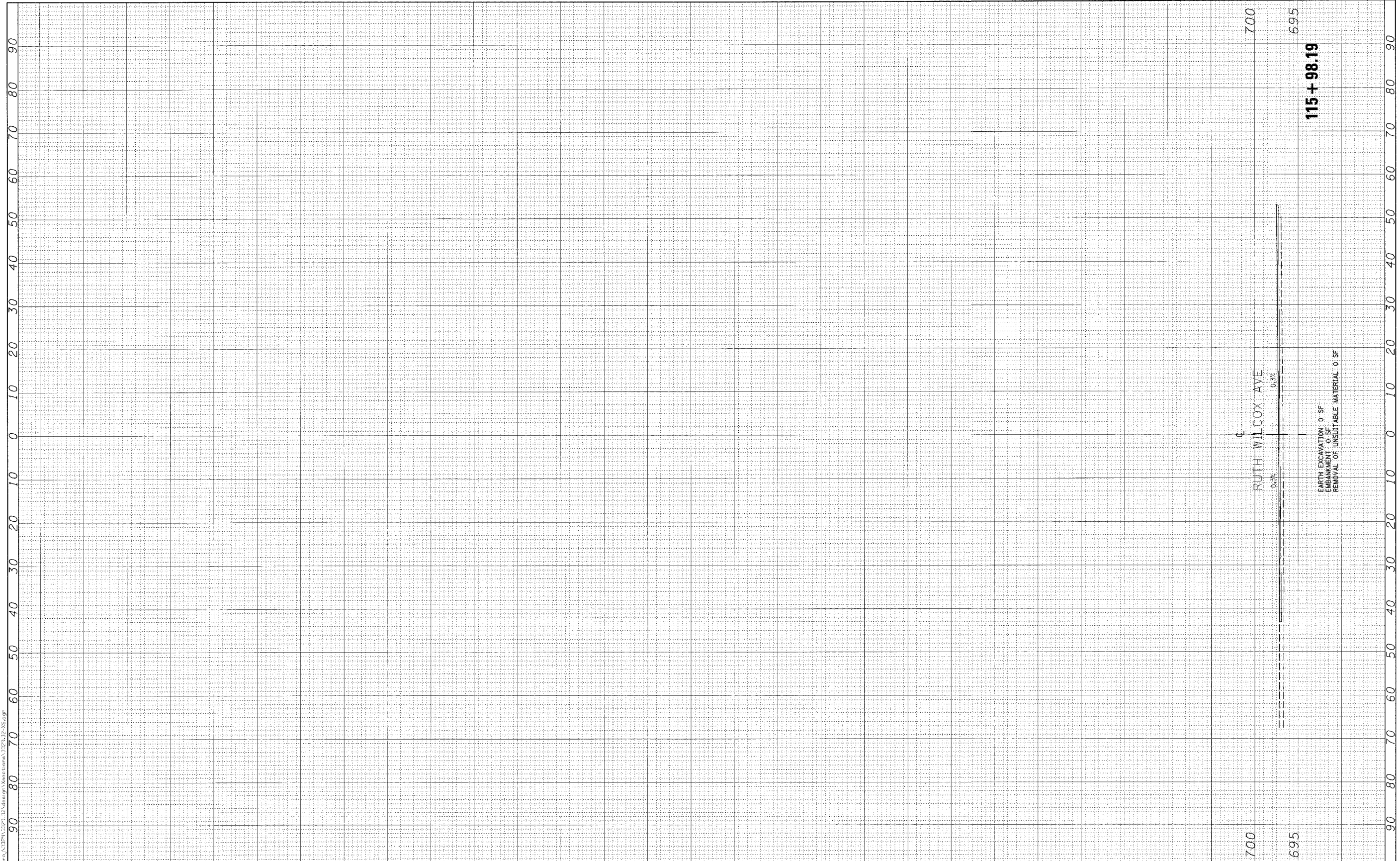
ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
WILL AVENUE TO KNIGHT AVENUE
CROSS SECTIONS

SCALE:	SHEET NO. OF SHEETS	STA. 112+00.00 TO STA. 115+00.00
--------	---------------------	----------------------------------

F.A.P. RTE. 880	SECTION 12 RS-3	COUNTY LAKE	TOTAL SHEETS 21	SHEET NO. 20
CONTRACT NO. 60B45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



CC Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60655
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jealem	DESIGNED - JCC	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - JCC	REVISED -
PLOT DATE = 6/3/2008	CHECKED - MJL	REVISED -
	DATE - MAY 2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 NORTH FRONTAGE ROAD
 WILL AVENUE TO KNIGHT AVENUE
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 115+98.19 TO STA. 115+98.19

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
B80	12 RS-3	LAKE	21 / 21
			CONTRACT NO. 60B45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			