

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-FP	COOK	27	1
F.H.W.A. REG.	ILLINOIS	PROJECT:		
CONTRACT NO. 63747				

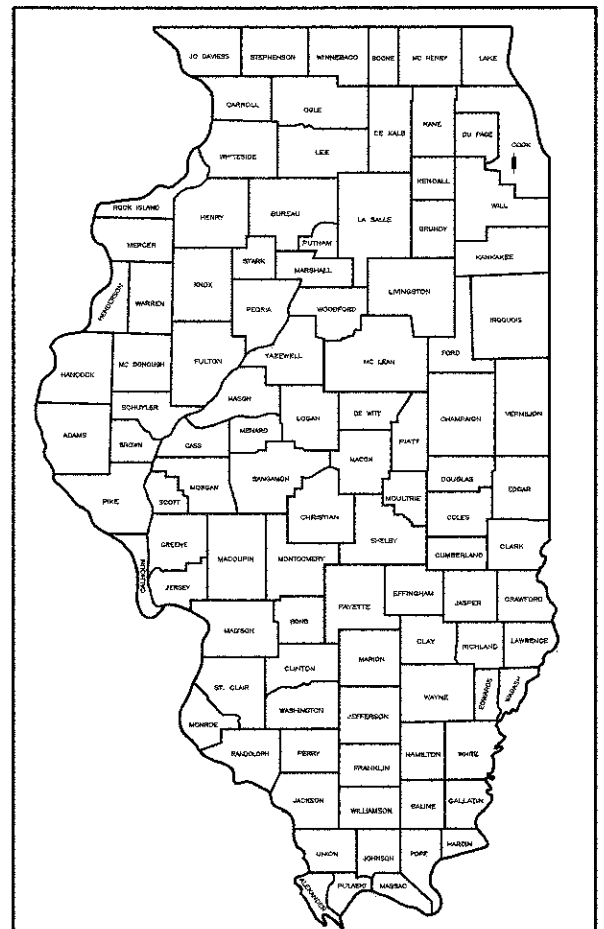
STATE OF ILLINOIS 11-9-12 LETTING ITEM 009

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

- INDEX OF SHEETS**
- 1.) COVER SHEET, INDEX TO SHEETS, LOCATION MAP, INDEX OF STANDARDS
 - 2.) NOTES, STANDARD SYMBOLS
 - 3.) SUMMARY OF QUANTITIES
 - 4.) PAVEMENT DESIGN CALCULATIONS, TYPICAL SECTIONS
 - 5.) SCHEDULE OF QUANTITIES
 - 6.) ALIGNMENT, TIES AND BENCHMARKS
 - 7.) EXISTING CONDITIONS AND DEMOLITION PLAN
 - 8.-10.) PLAN & PROFILE
 - 11.) TRAFFIC CONTROL PLAN
 - 12.) GRADING AND EROSION CONTROL PLAN
 - 13.-18.) CONSTRUCTION DETAILS
 - 19.-27.) CROSS SECTIONS

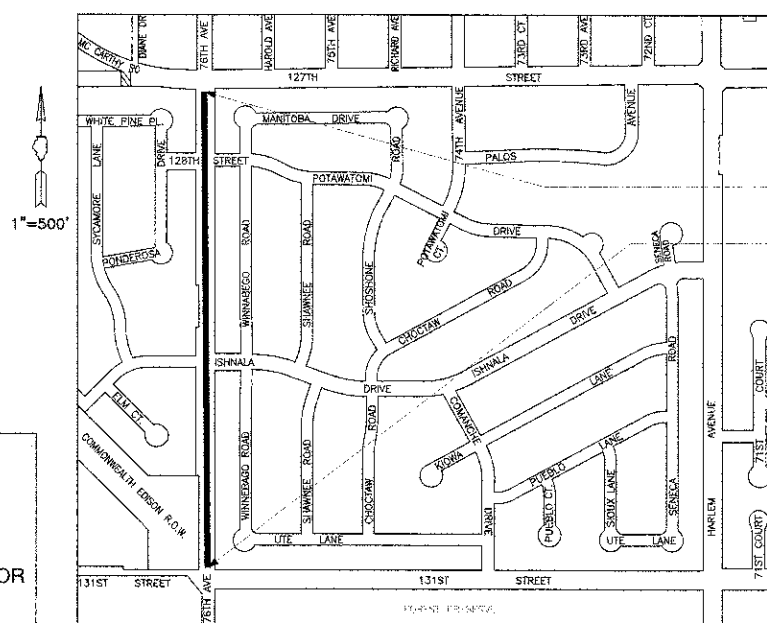


LOCATION OF SECTION INDICATED THUS:

- LIST OF ILLINOIS DOT HIGHWAY STANDARDS**
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
 - 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
 - 424001-06 PERPENDICULAR CURB RAMPS
 - 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
 - 542311-03 GRATING FOR CONCRETE FLARED END SECTION (FOR 600 mm (24") THRU 1350 mm (54") PIPE)
 - 602001-02 CATCH BASIN TYPE A
 - 602301-03 INLET - TYPE A
 - 602306-03 INLET - TYPE B
 - 602401-03 MANHOLE TYPE A
 - 604036-02 GRATE TYPE 8
 - 701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
 - 701501-06 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
 - 701901-02 TRAFFIC CONTROL & PROTECTION
 - 720001-01 SIGN PANEL MOUNTING DETAILS
 - 720006-03 SIGN PANEL ERECTION DETAILS
 - 728001-01 TELESCOPING STEEL SIGN SUPPORT

F.A.U. RTE. 3791 (76TH AVENUE)
131ST ST. TO 127TH ST.
FEDERAL PROJECT M-9003(747)
CITY SECTION NO. 08-00043-00-FP
RECONSTRUCTION (ROADWAY)
CITY OF PALOS HEIGHTS
COOK COUNTY
JOB NO. C-91-192-11

DESIGN DESIGNATION
76TH AVENUE
(20' COLLECTOR 0.82 (BIT. 20)
COOK COUNTY
SECTION 08-00043-00-FP
ADT = 2000, DHV = 200
DESIGN SPEED = 30 MPH
POSTED SPEED = 20 MPH



PROJECT ENDS
STA. 52+61

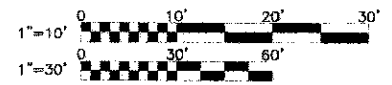
PROJECT BEGINS
STA. 27+71

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Sept 5 2012
Scott Smith
DIRECTOR OF PUBLIC WORKS, PALOS HEIGHTS

PASSED Sept 7 2012
Chad Cook
DISTRICT #7 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW September 7 2012
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION #1 ENGINEER



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.

811
Know what's below.
Call before you dig.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811

- SCALES**
- | | |
|-----------------------|------------------|
| PLAN | 1 INCH = 30 FEET |
| PROFILE HORIZ. | 1 INCH = 30 FEET |
| PROFILE VERT. | 1 INCH = 5 FEET |
| CROSS-SECTIONS HORIZ. | 1 INCH = 10 FEET |
| CROSS-SECTIONS VERT. | 1 INCH = 5 FEET |

LOCATION MAP

TOWNSHIP 37N, R12E 3RD PM

— — DENOTES PROJECT LOCATION

NET LENGTH OF PROJECT = 2,490 LIN FT (0.47 MILE)
GROSS LENGTH OF PROJECT = 2,490 LIN FT (0.47 MILE)

STATE OF ILLINOIS }
COUNTY OF DU PAGE } 99

I, THE UNDERSIGNED, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A "BOUNDARY SURVEY", AND THAT THE PLAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY.

DATED, THIS 5th DAY OF SEPTEMBER, 2012 A.D., AT LISLE, ILLINOIS.

Robert J. Silander
ROBERT J. SILANDER
ILLINOIS PROFESSIONAL LAND SURVEYOR No. 035-2181
MY LICENSE EXPIRES NOVEMBER 30, 2012
ILLINOIS PROFESSIONAL DESIGN FIRM
PROFESSIONAL ENGINEERING CORPORATION NO. 184-001245

FIELD WORK COMPLETED ON September 14, 2012

ENGINEER'S CERTIFICATION
STATE OF ILLINOIS)
COUNTY OF DU PAGE) SS.

I, SIGITAS P. VAZNELIS, A REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY MORRIS ENGINEERING, INC. 5100 S. LINCOLN AVENUE, SUITE 100, LISLE, ILLINOIS, 60532 UNLESS OTHERWISE INDICATED. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF THE PROJECT SPECIFICATIONS.

DATED THIS 5th DAY OF SEPTEMBER, A.D. 2012
Stanislav Vaznelis
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-044114
MY REGISTRATION EXPIRES ON NOVEMBER 30, 2013

UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND SEAL OF THE DESIGN PROFESSIONAL ENGINEER, THIS IS NOT A VALID TECHNICAL SUBMISSION.



PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 63747

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLER, P.E. 847-705-4406 SCHAUMBURG, IL
CONSULTANT: MORRIS ENGINEERING, INC. (630) 271-0770

11/11/12 10:00 AM 11/11/12 10:00 AM 11/11/12 10:00 AM

SUMMARY OF QUANTITIES					
CODE NO	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY RECONSTRUCTION CODE 004	TRAINEES CODE 0042
20100100	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100.00	100.00	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100.00	100.00	
20101100	TREE TRUNK PROTECTION	EACH	60.00	60.00	
20101200	TREE ROOT PRUNING	EACH	20.00	20.00	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	100.00	100.00	
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100.00	100.00	
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	100.00	100.00	
20200100	EARTH EXCAVATION	CU YD	3,545.00	3,545.00	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,000.00	1,000.00	
30300000	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,316.00	1,316.00	
30300104	AGGREGATE SUBGRADE IMPROVEMENT 4"	SQ YD	9,587.00	9,587.00	
20800150	TRENCH BACKFILL	CU YD	1,000.00	1,000.00	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7,282.00	7,282.00	
25000100	SEEDING, CLASS 1	ACRE	1.50	1.50	
25200110	SODDING, SALT TOLERANT	SQ YD	8,333.00	8,333.00	
28000305	TEMPORARY DITCH CHECKS	FOOT	275.00	275.00	
28000400	PERIMETER EROSION BARRIER	FOOT	4,778.00	4,778.00	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200.00	200.00	
40500100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	3,500.00	3,500.00	
40800982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	350.00	350.00	
40803335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	100.00	100.00	
40701846	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/4"	SQ YD	7,950.00	7,950.00	
42400600	DETECTABLE WARNINGS	SQ FT	60.00	60.00	
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	6,100.00	6,100.00	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	100.00	100.00	
48101800	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	30.00	30.00	
50105220	PIPE CULVERT REMOVAL	FOOT	30.00	30.00	
54010805	PRECAST CONCRETE BOX CULVERTS 8' X 8'	FOOT	7.00	7.00	
54213857	PRECAST REINFORCED CONCRETE FLARED-END SECTIONS 12"	EACH	1.00	1.00	
54247080	GRATING FOR CONCRETE FLARED-END SECTION 12"	EACH	1.00	1.00	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	750.00	750.00	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	2,000.00	2,000.00	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	30.00	30.00	
60107600	PIPE UNDERDRAINS 4"	FOOT	60.00	60.00	
60200605	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1.00	1.00	
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	10.00	10.00	
60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	2.00	2.00	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2.00	2.00	
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	5.00	5.00	
60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	EACH	1.00	1.00	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3.00	3.00	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	8.00	8.00	
60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	3.00	3.00	
60504400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	5,000.00	5,000.00	
67100100	MOBILIZATION	L SUM	1.00	1.00	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,760.00	4,760.00	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	200.00	200.00	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	350.00	350.00	
* X6331009	REMOVE AND REPLACE STEEL PLATE BEAM GUARDRAIL, SPECIAL	FOOT	100.00	100.00	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.00	1.00	
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	100.00	100.00	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	20.00	20.00	
Z0078600	TRAINEES	HOUR	500.00		500.00
Z0078604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500.00		500.00

* SPECIALTY ITEMS

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	PLOT DATE = Sep 05, 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

76TH AVENUE 131ST STREET TO 127TH STREET
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. ___ OF ___ SHEETS STA. 27+71 TO STA. 52+61

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-FP	COOK	27	3
CONTRACT NO. 63747			ILLINOIS FED. AID PROJECT	

**MECHANISTIC DESIGN
FLEXIBLE PAVEMENT**

Urban Class II Roadway ADT = 2500
 PV = 2475 P = S = M = 50%
 SU = 20
 MU = 5
 DP = 20 YRS SSR = FAIR

USE TRAFFIC FACTOR EQ 54-5.2

$$TF = DP \left[\frac{(0.15 \times P \times PV) + (112.06 \times S \times SU) + (385.44 \times M \times MU)}{1 \times 10^6} \right]$$

$$= 20 \left[\frac{(0.15 \times 0.5 \times 2475) + (112.06 \times 0.5 \times 20) + (385.44 \times 0.5 \times 5)}{1 \times 10^6} \right]$$

$$= 20 \left[\frac{185.63 + 1120.60 + 963.6}{1 \times 10^6} \right] = 20(0.00227)$$

TF = 0.045 ACTUAL

TF = 0.50 MINIMUM

AC MIXTURE TEMP = 78°F

N70 PG 64-22 AC 20
 E_{AC} = 598

DESIGN AC STRAIN = 130

THICKNESS = 8.25"

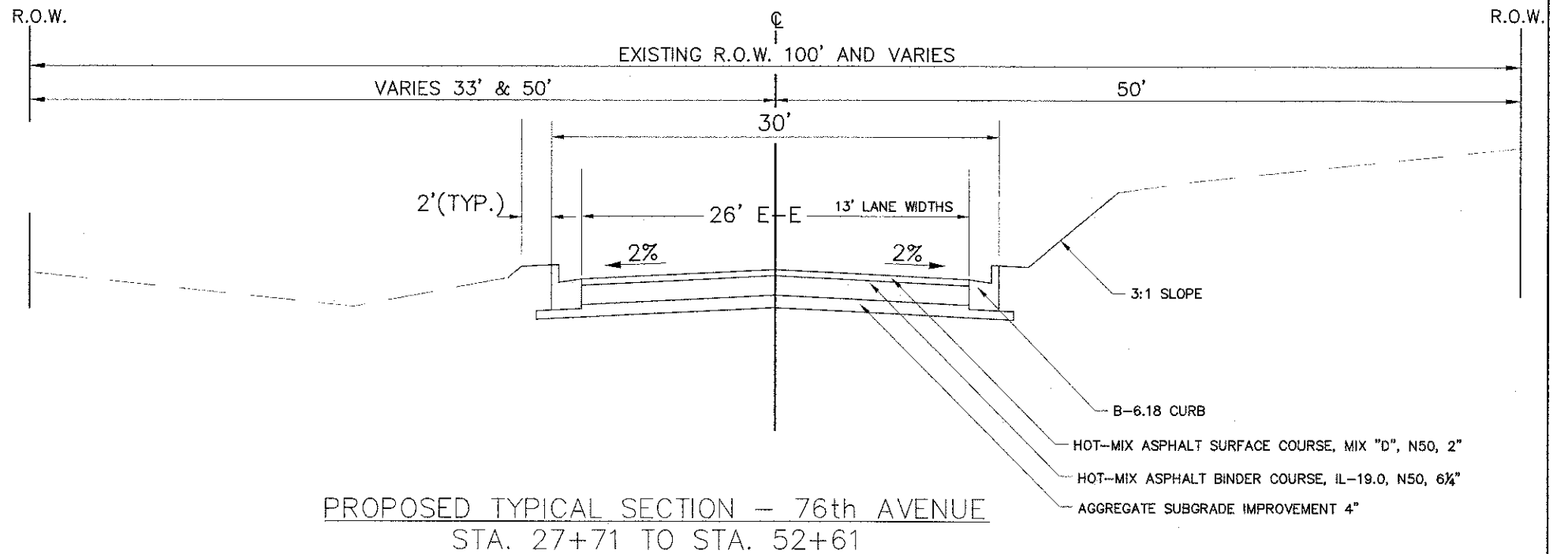
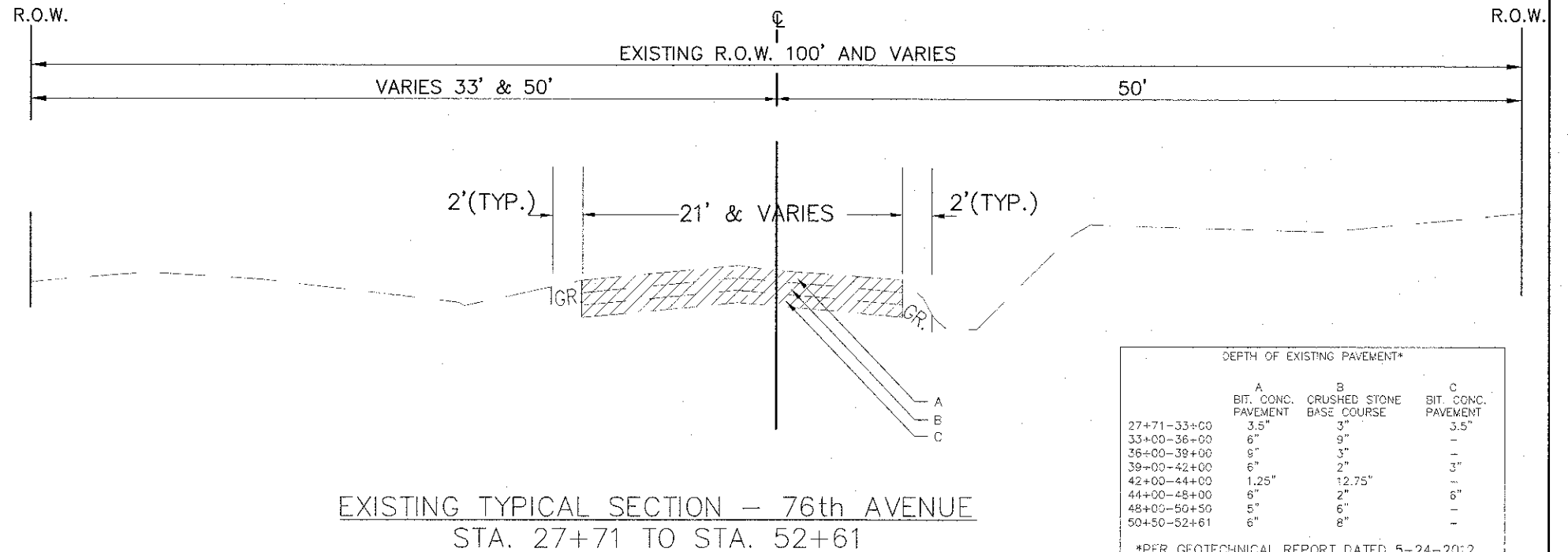
STRUCTURAL DESIGN TRAFFIC:	Year	20
PV =	2475	SU = 20 MU = 5
ROAD/STREET CLASSIFICATION:	Class 11 URBAN	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P = 50 S = 50 M = 50	
TRAFFIC FACTOR:	Actual TF = 0.045	AC Type = 20
	Minimum TF = 0.5	
PG GRADE:	Binder = 64-22	Surface = 64-22
SUBGRADE SUPPORT RATING:	SSR = FAIR (Sta. 27+00 to 53+00)	
	SSR = (Sta. to)	

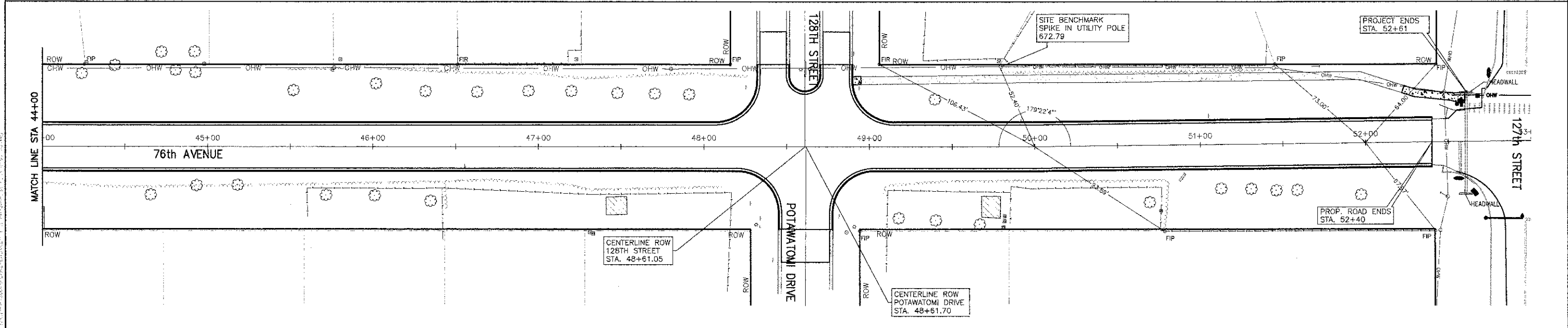
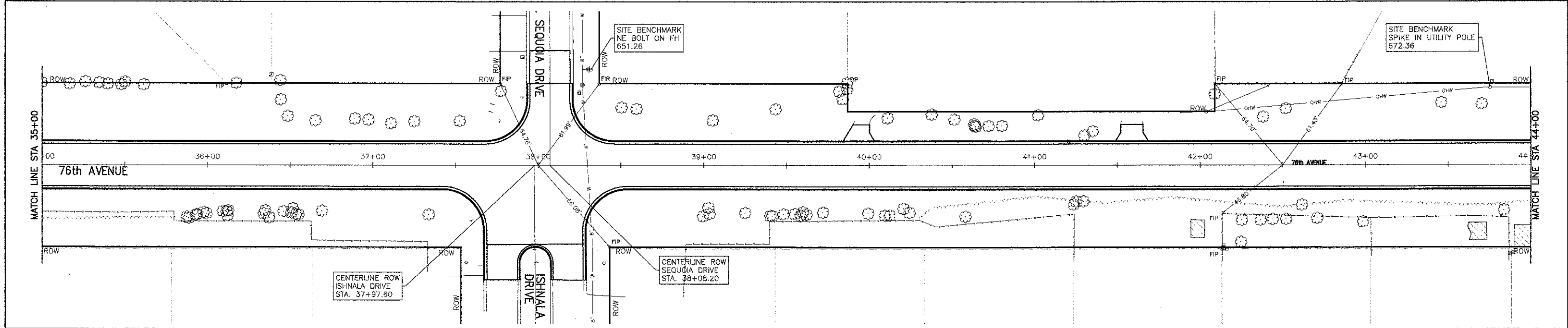
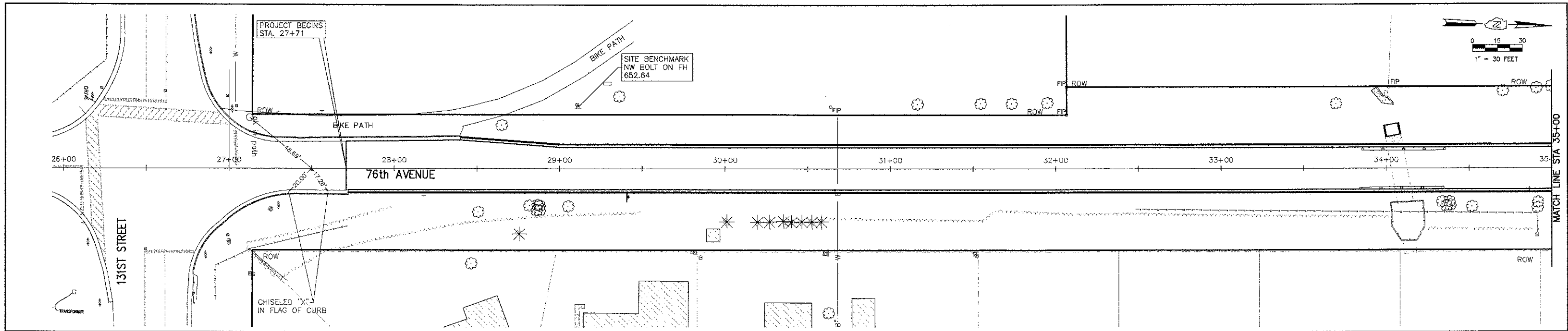
HOT-MIX MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	LOCATION
RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 50 (IL 9.5 mm); 1 1/2"	4% @ 50 Gyr.	ISHMALA DRIVE SEQUOIA DRIVE 128TH STREET POTAWATOMI DRIVE
FULL DEPTH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	4% @ 50 Gyr.	76TH AVE.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 6 1/4" (2 LIFTS)	4% @ 50 Gyr.	76TH AVE.
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 50 (IL 9.5 mm); 3"	4% @ 50 Gyr.	76TH AVE.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); PE - 6" (2 LIFTS), CE - 8 (3 LIFTS)"	4% @ 50 Gyr.	76TH AVE.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22 AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

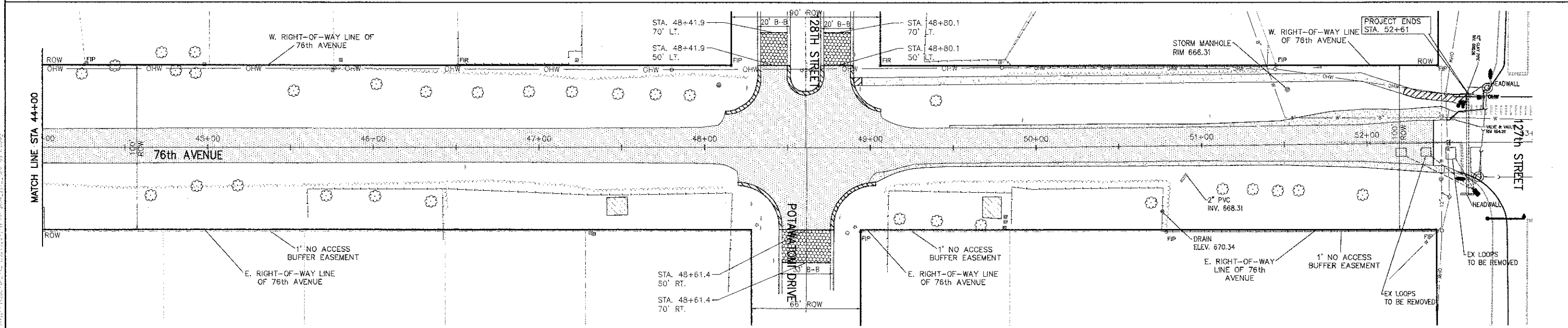
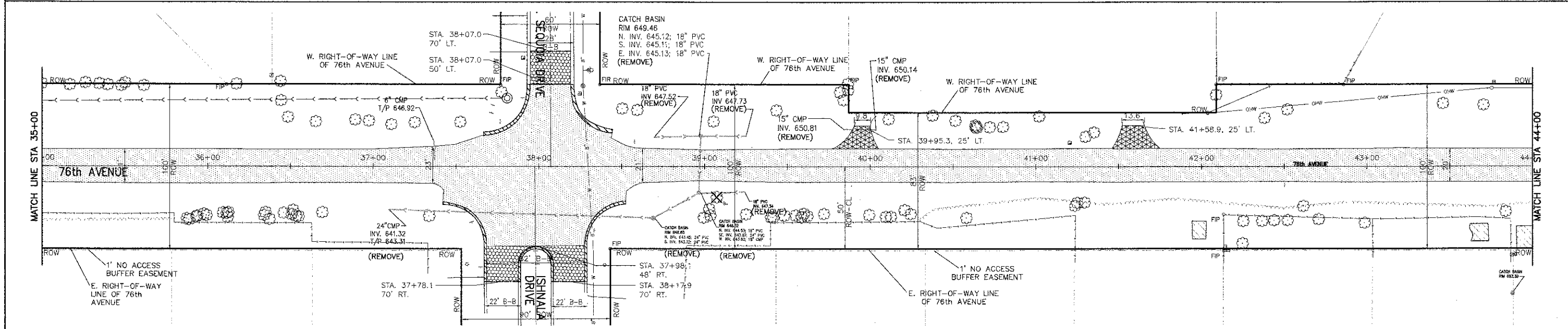
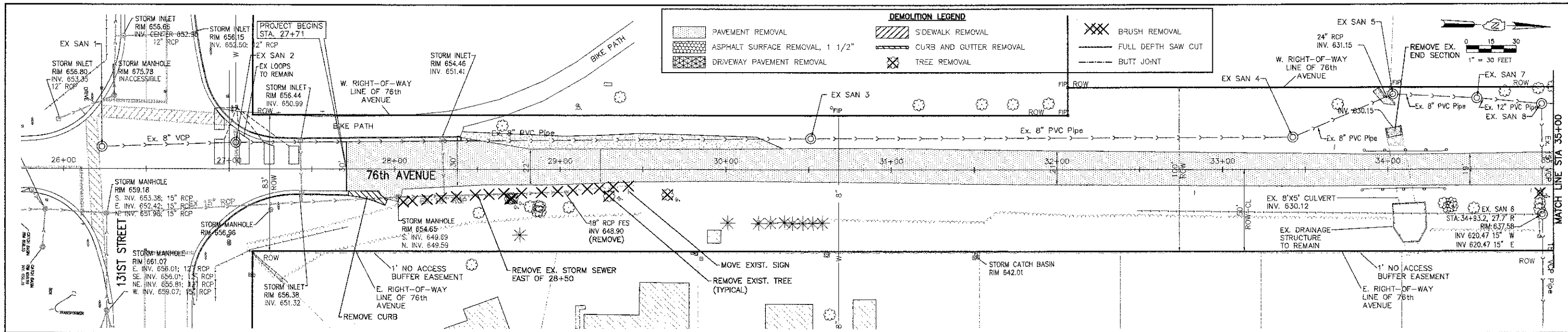
* When RAP exceeds 20%, the new asphalt binder in the mix shall be PG 58-22.





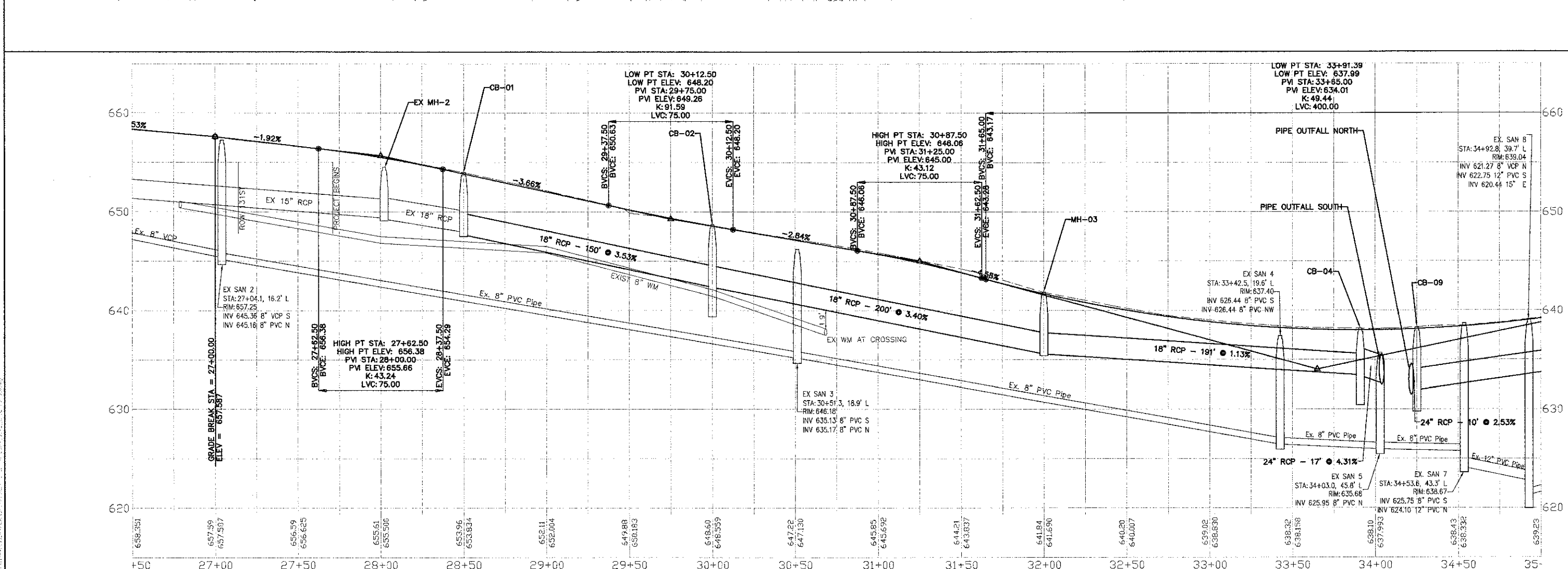
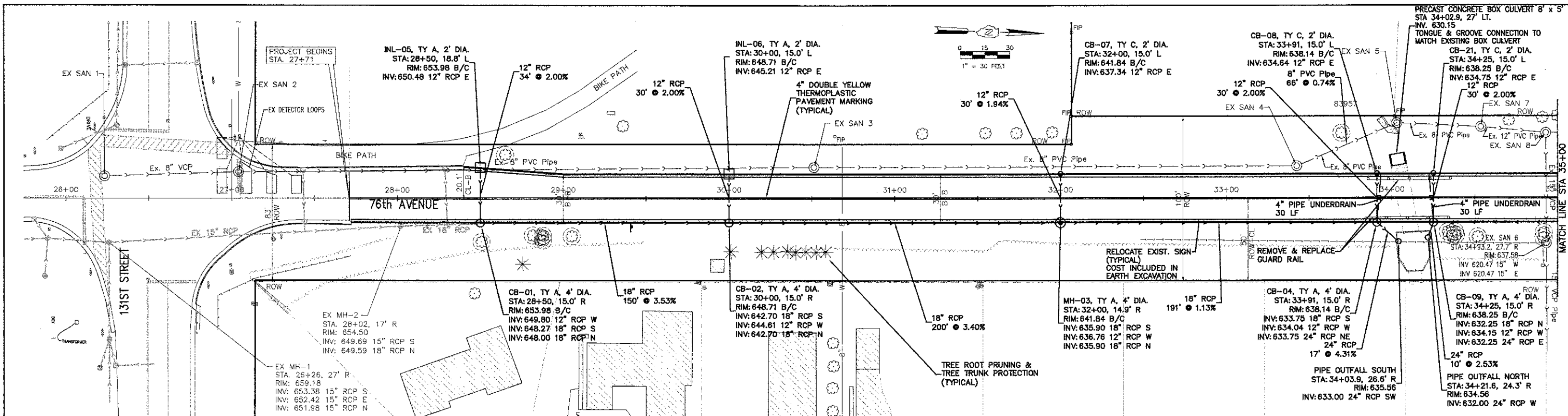
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PLOT SCALE = \$SCALE\$	PLOT DATE = Sep 05, 2012	DRAWN -	REVISED -		SCALE: NTS	SHEET NO. ___ OF ___ SHEETS	STA. 27+71	TO STA. 52+61	CONTRACT NO. 63747			
CHECKED -	DATE -	DATE -	DATE -		ILLINOIS FED. AID PROJECT							
DATE -	DATE -	DATE -	DATE -									

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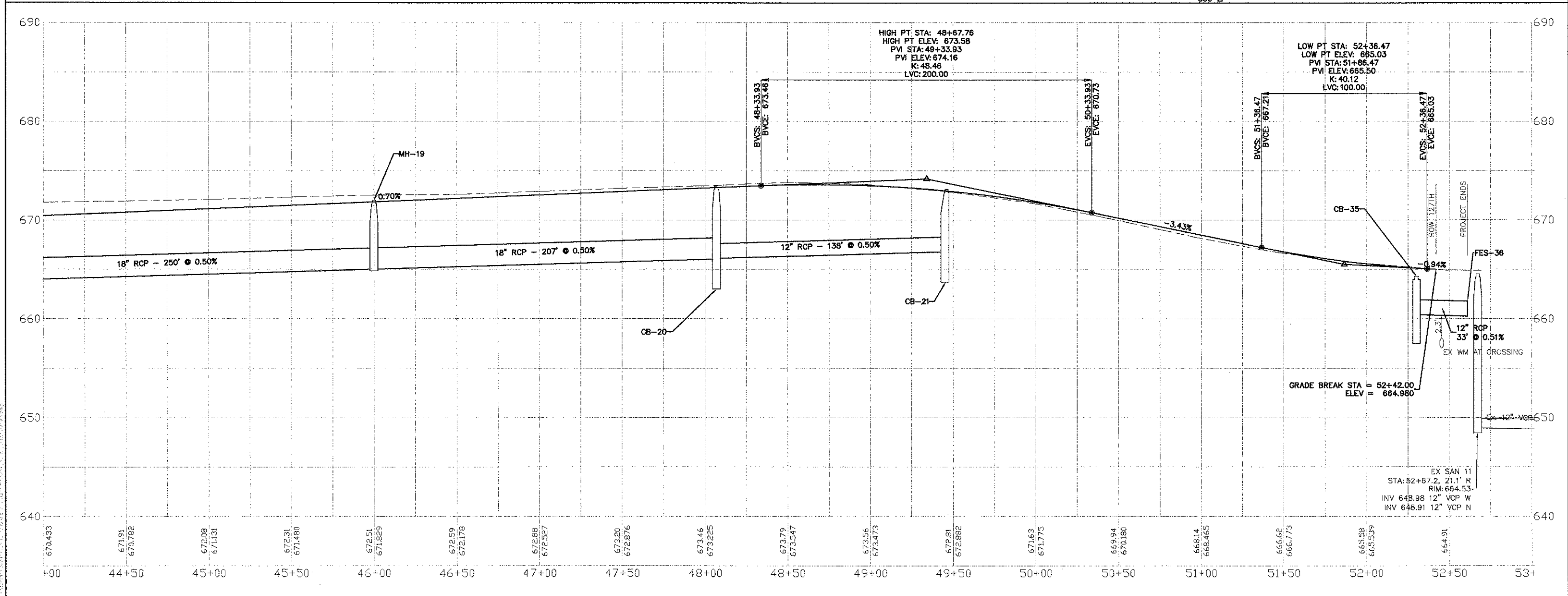
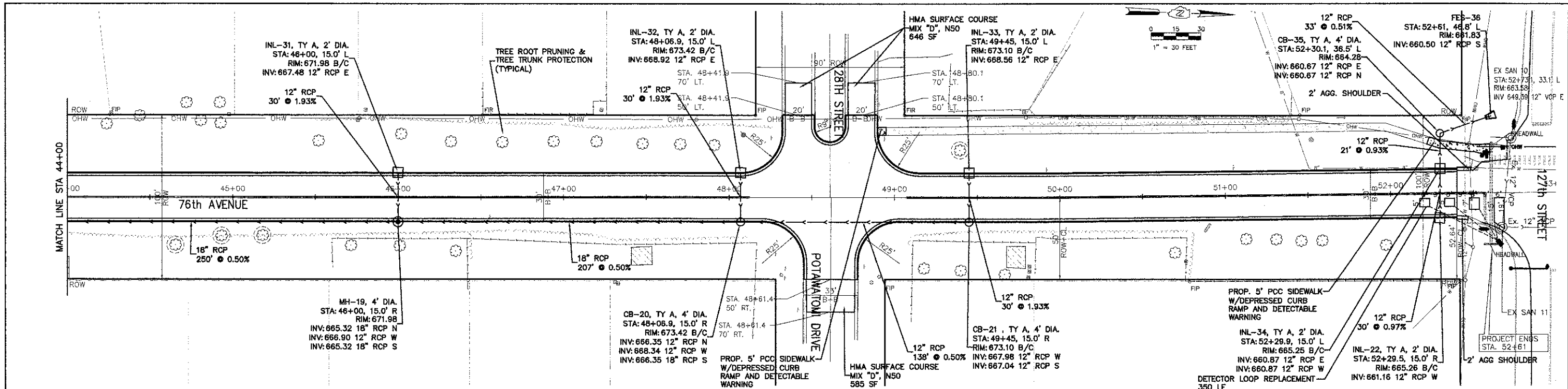
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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	REVISED -		SCALE: 1"=30'	SHEET NO. ___ OF ___ SHEETS	STA. 27+71 TO STA. 52+61	CONTRACT NO. 63747				
PLOT DATE = Sep 05, 2012	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

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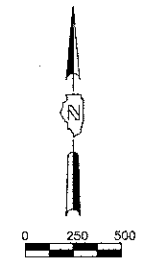
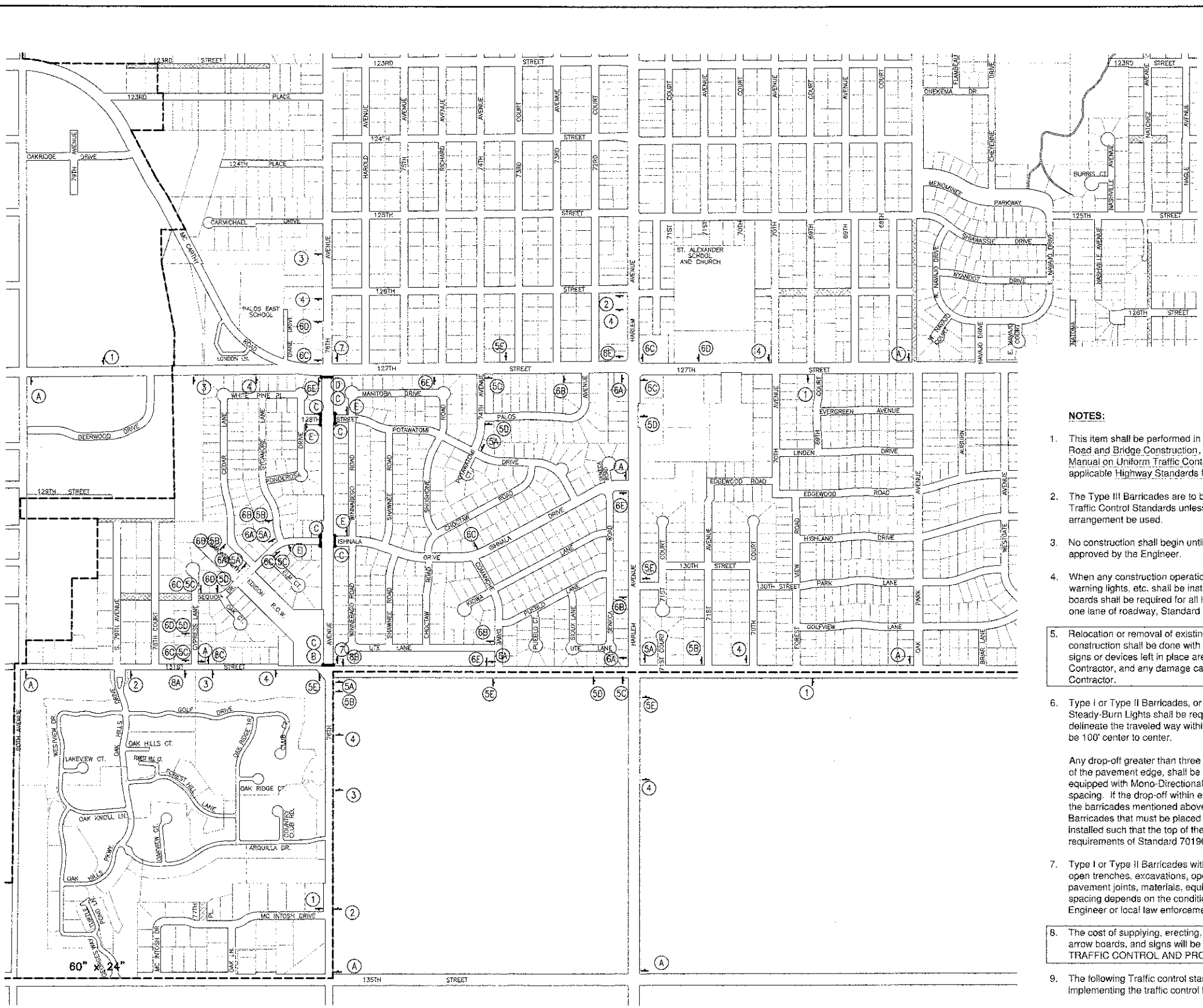
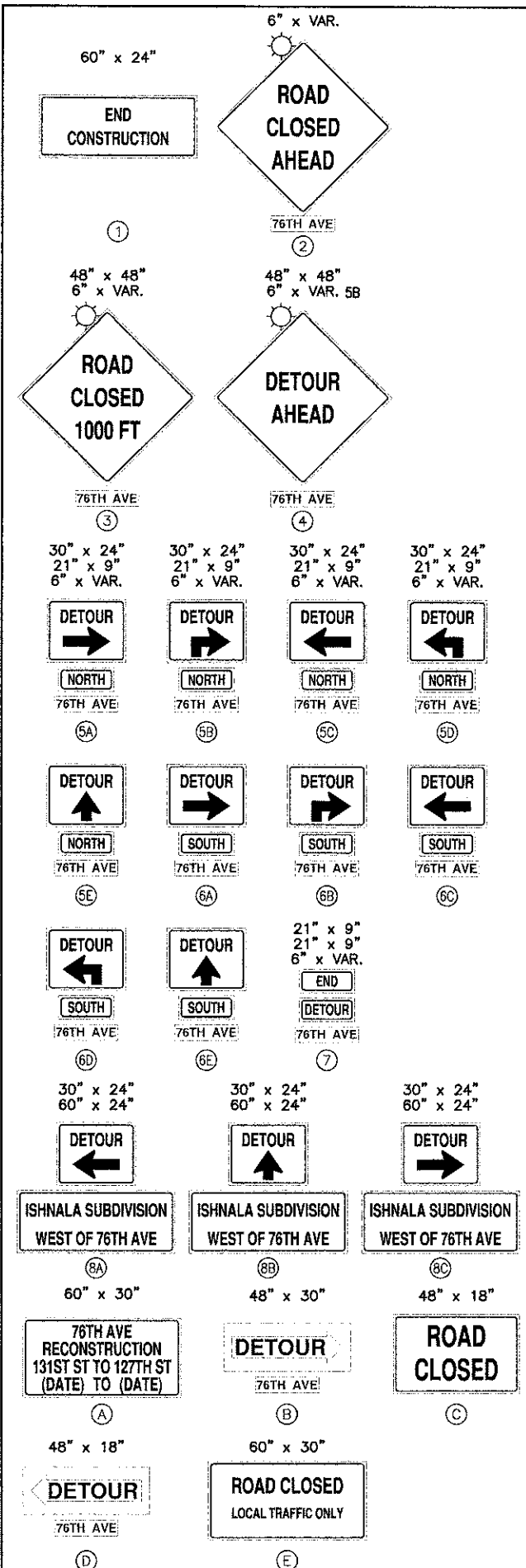
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H:\11-PH\3004\PLANS-ENG\REV-1\11-PH-004_SITE_2012-09-03.dwg		DRAWN -	REVISED -									3791	08-00043-00-FP	COOK	27	8
PLOT SCALE =		CHECKED -	REVISED -	SCALE: 1"=30'				SHEET NO. 1 OF 3 SHEETS STA. 27+71 TO STA. 52+61				CONTRACT NO. 63747				
PLOT DATE =		DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

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HA\11-PH\3004\PLANS-ENG\REV-1\11-PH-3004_SITE_2012-09-05.dwg		DRAWN -	REVISED -		SCALE: 1"=30'	SHEET NO. 3 OF 3 SHEETS	STA. 44+00 TO STA. 53+00	3791	06-00043-00-FP	COOK	27	10
		CHECKED -	REVISED -									
		DATE -	REVISED -									
										CONTRACT NO. 63747		

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LEGEND

ALL SIGNING TO BE BLACK LETTERS ON AN ORANGE BACKGROUND

TY, III BARRICADES WITH TWO WAY WARNING LIGHTS

SIGN ON PERMANENT SUPPORT WITH MONO DIRECTIONAL WARNING LIGHTS & ORANGE FLAG ATTACHED

SIGN DESIGNATION

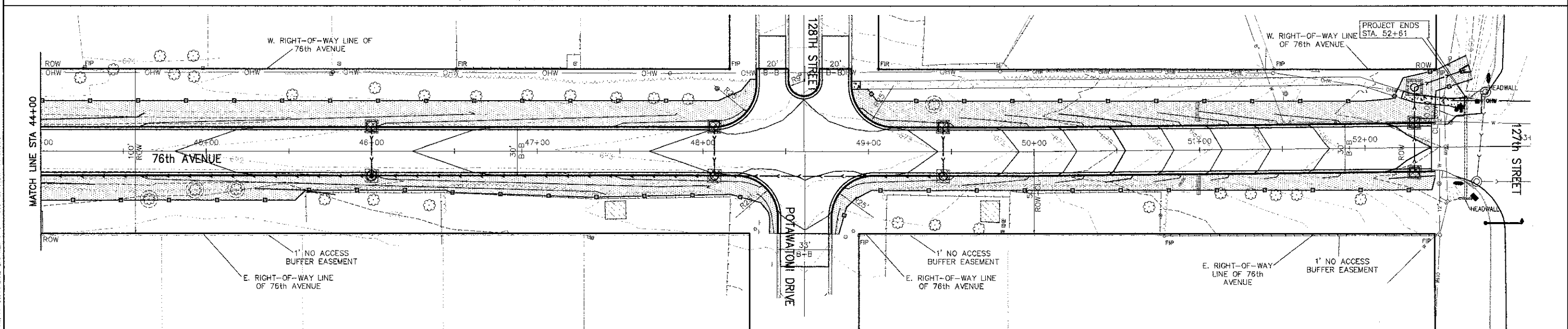
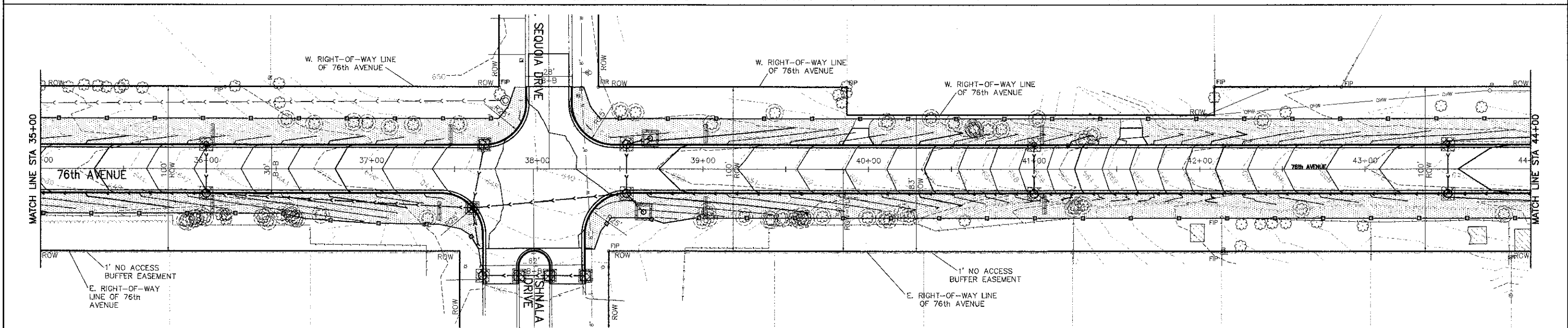
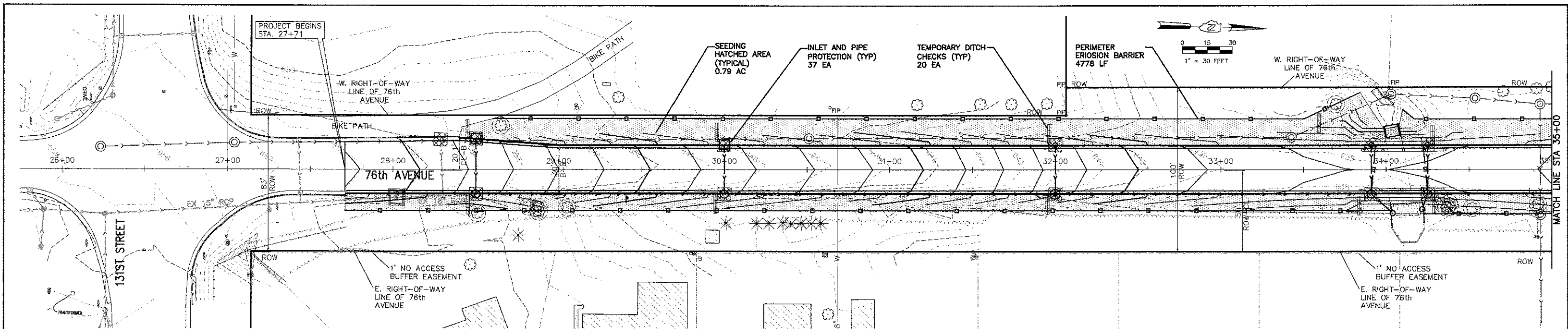
- NOTES:**
- This item shall be performed in accordance with the Standard Specifications for Road and Bridge Construction, Section 700; applicable guidelines in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways; and the applicable Highway Standards for Traffic Control; unless herein revised.
 - The Type III Barricades are to be placed in accordance with the applicable Traffic Control Standards unless the Engineer directs that alternate arrangement be used.
 - No construction shall begin until all TRAFFIC CONTROL is in place and approved by the Engineer.
 - When any construction operations are performed, all signs, barricades, cones, warning lights, etc. shall be installed in accordance with the Standards. Arrow boards shall be required for all lane closures. Whenever traffic is restricted to one lane of roadway, Standard 701501-06 shall be followed.
 - Relocation or removal of existing traffic control signs and devices in conflict with construction shall be done with cost incidental to EARTH EXCAVATION. Any signs or devices left in place are to be protected from damage by the Contractor, and any damage caused by construction will be paid for by the Contractor.
 - Type I or Type II Barricades, or Vertical Panels, with Mono-Directional Steady-Burn Lights shall be required along temporary roads and side streets to delineate the traveled way within the construction. The maximum spacing shall be 100' center to center.

Any drop-off greater than three inches but less than six inches, within eight feet of the pavement edge, shall be protected by Type I or Type II Barricades equipped with Mono-Directional Steady-Burn Lights at 100' center to center spacing. If the drop-off within eight feet of the pavement exceeds six inches, the barricades mentioned above shall be placed at 50' center to center spacing. Barricades that must be placed in excavated areas shall have leg extensions installed such that the top of the barricade is in compliance with the height requirements of Standard 701901-02.
 - Type I or Type II Barricades with two way flashing lights shall be required at all open trenches, excavations, open or exposed sewer structures, transverse pavement joints, materials, equipment within the right-of-way (number and spacing depends on the conditions), and at locations designated by the Engineer or local law enforcement agencies.
 - The cost of supplying, erecting, and maintaining barricades, warning lights, arrow boards, and signs will be included in the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 - The following Traffic control standards are noted as minimum guides in implementing the traffic control for this project:

701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701501-06 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701901-02 TRAFFIC CONTROL & PROTECTION
720001-01 SIGN MOUNTING DETAILS
720006-03 SIGN PANEL ERECTION DETAILS
728001-01 TELESCOPING STEEL SIGN SUPPORT
 - Traffic Control depicted is the minimum requirement. Other signs or barricades may be required by the Engineer to cover unforeseen situations or project sequencing. Adherence to this Traffic Control Plan does not relieve the Contractor from liability or responsibility in providing complete traffic safety for motorists and construction personnel.

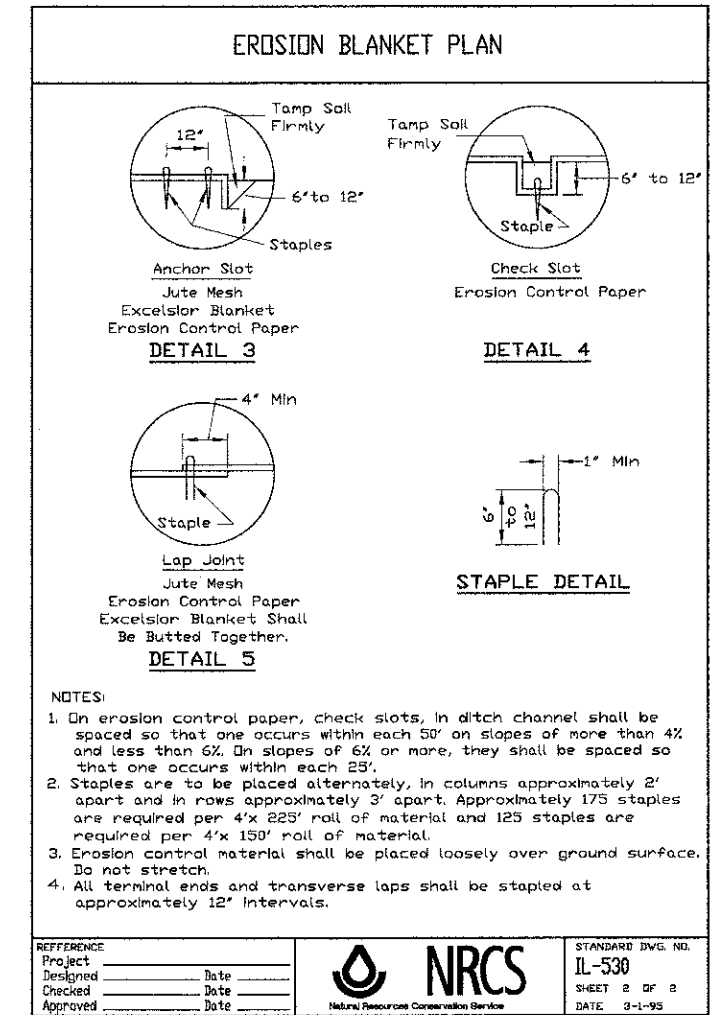
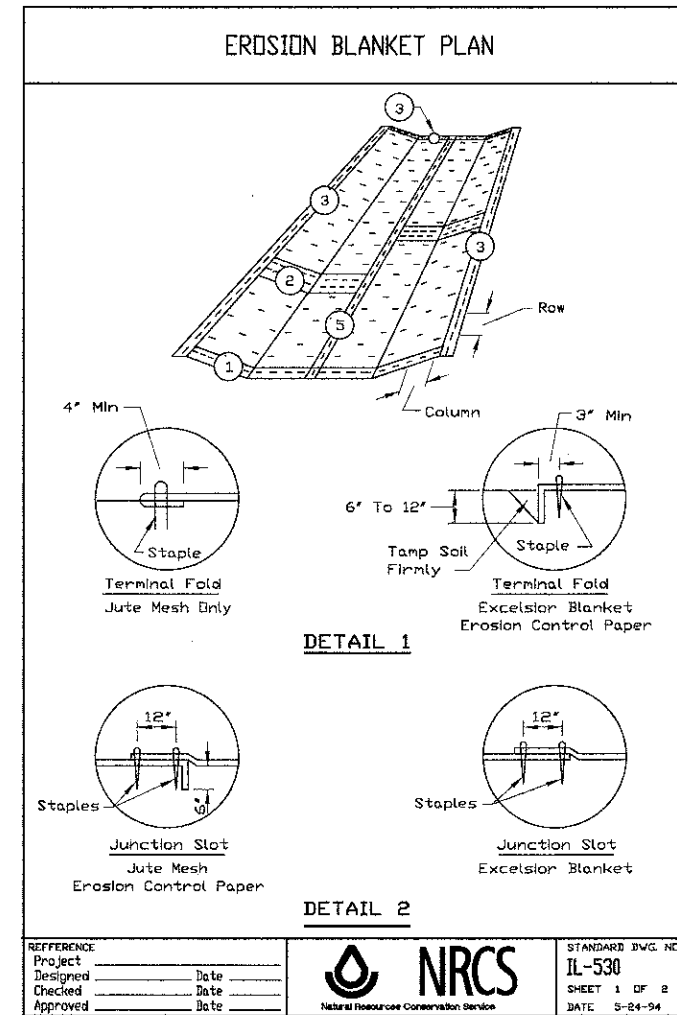
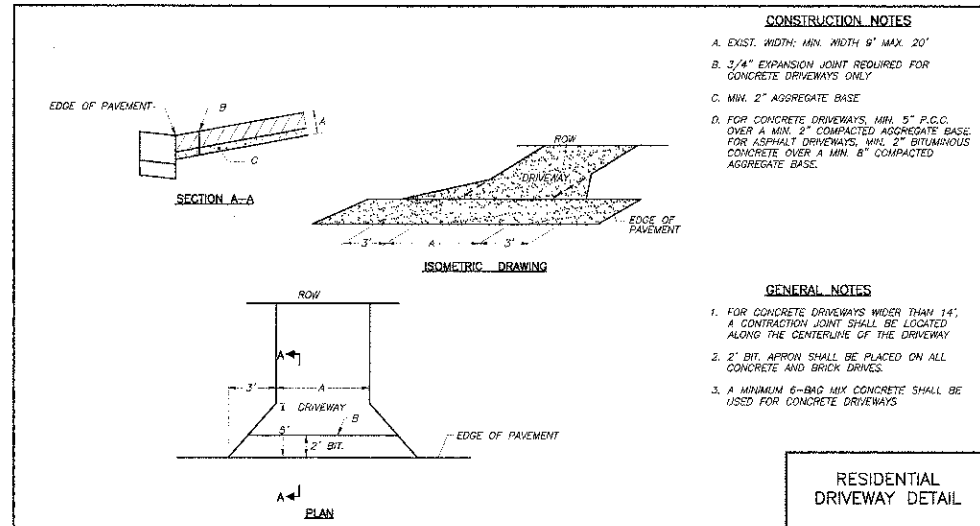
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		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

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CHECKED -	DATE -	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							

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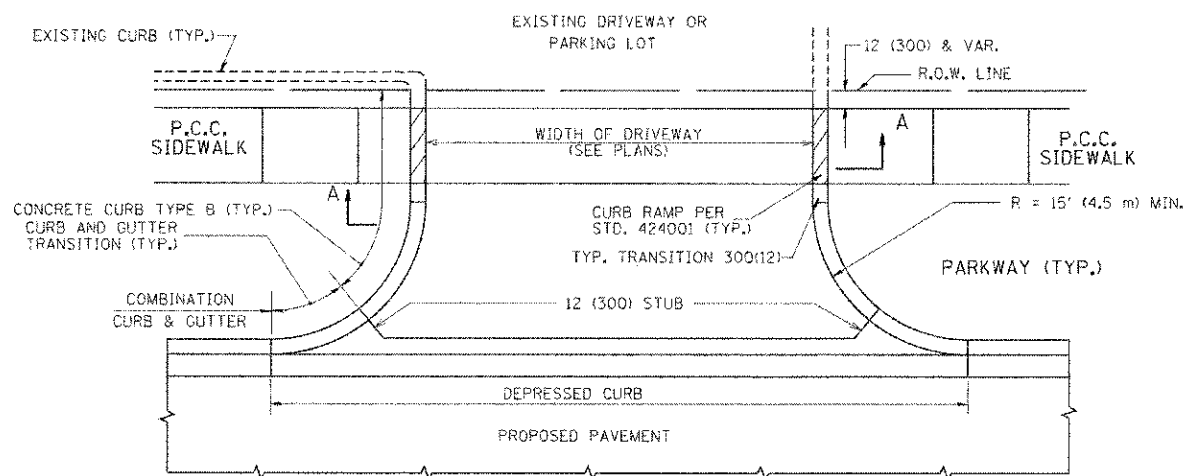
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

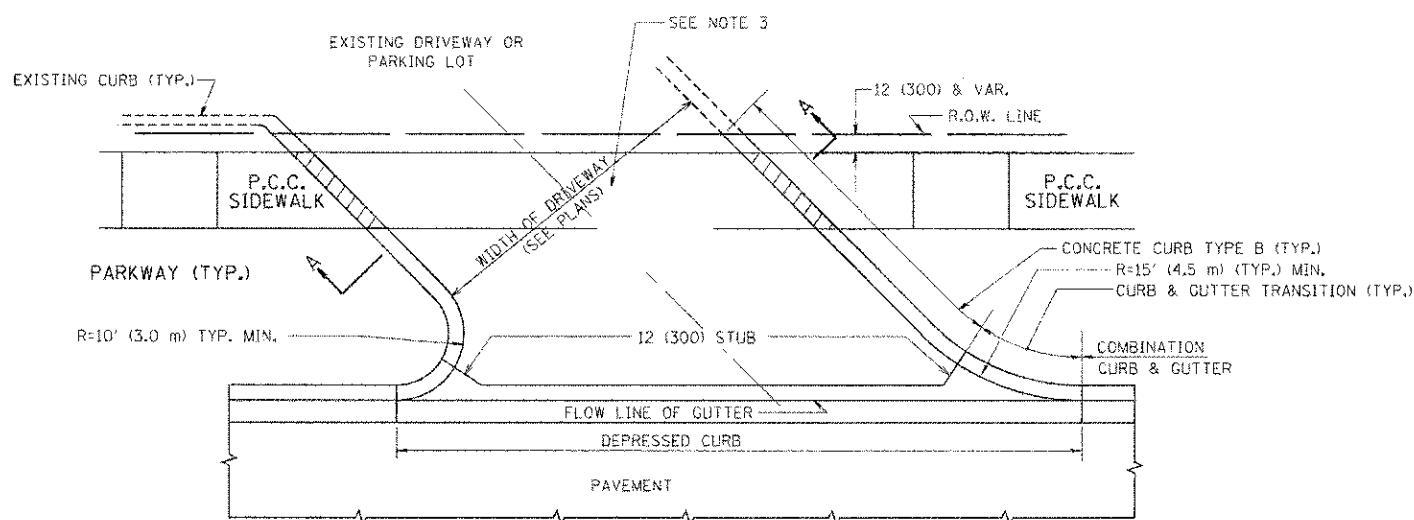
76TH AVENUE 131ST STREET TO 127TH STREET
CONSTRUCTION DETAILS

SCALE: NTS SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

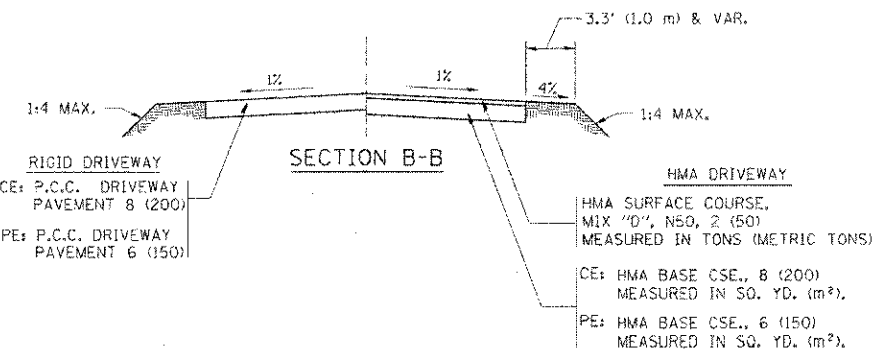
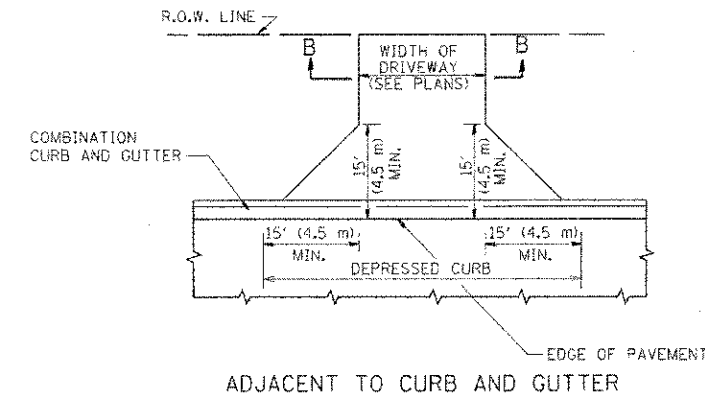
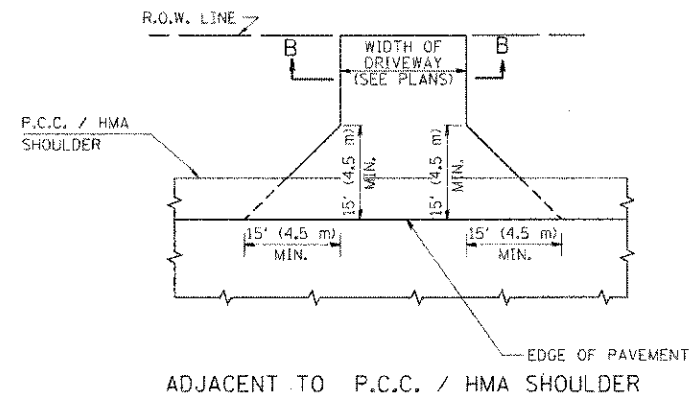
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-PP	COOK	27	13
CONTRACT NO. 63747			ILLINOIS FED. AID PROJECT	



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

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 ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

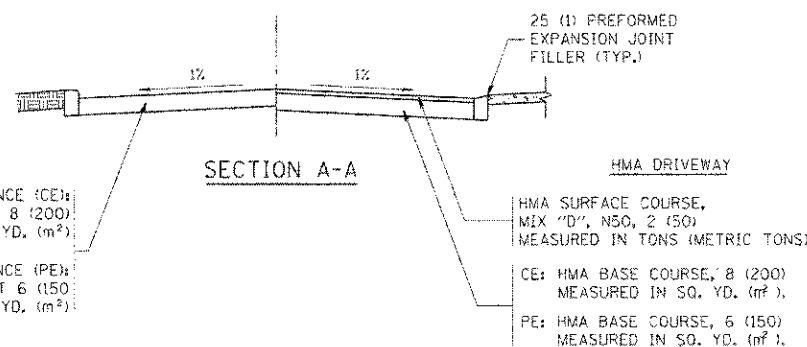
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.

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.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



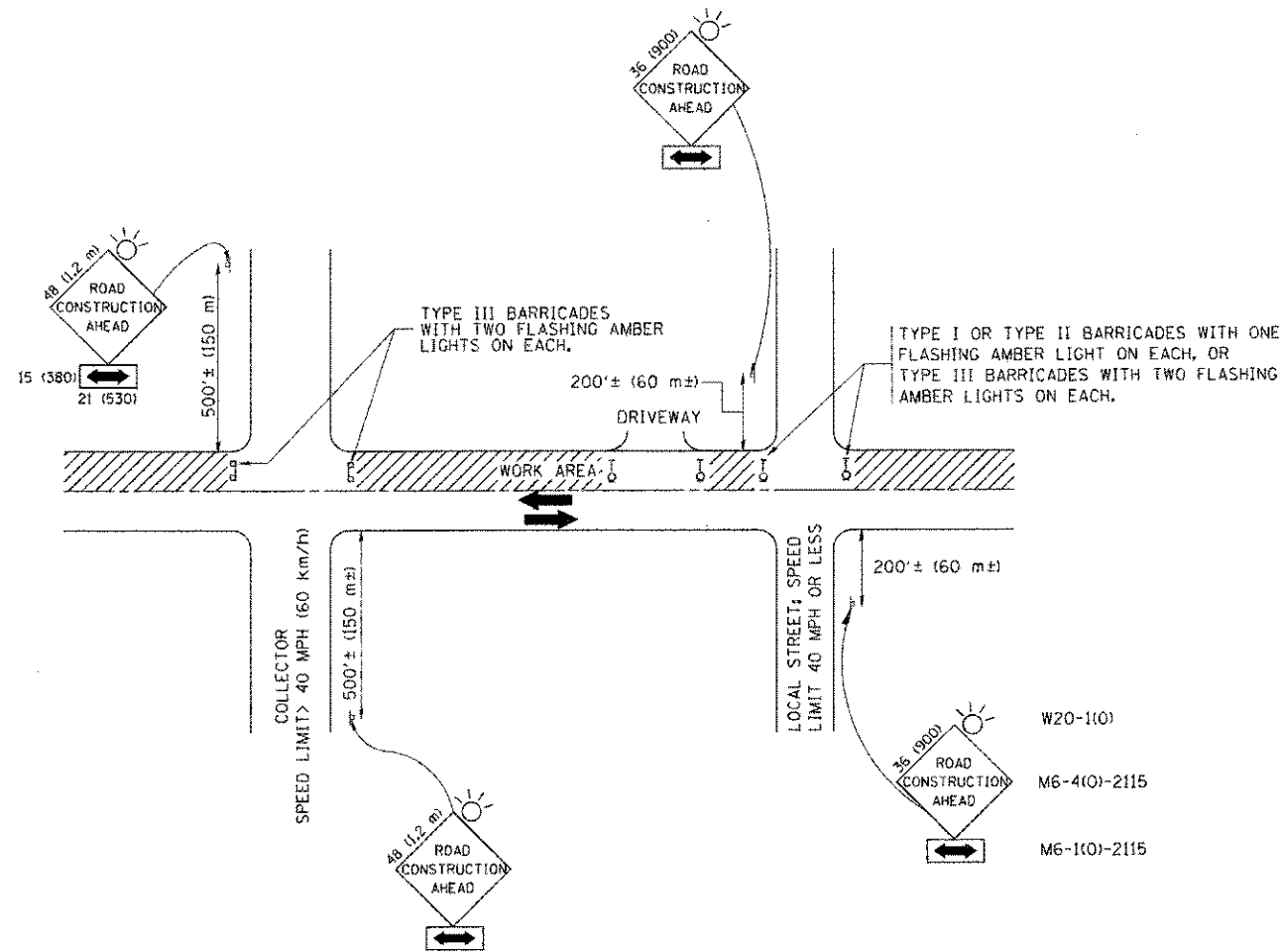
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STATE OF ILLINOIS
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DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-FP	COOK	27	14
BD0156-07 (80-01)			CONTRACT NO. 63747	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- 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.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).**
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

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

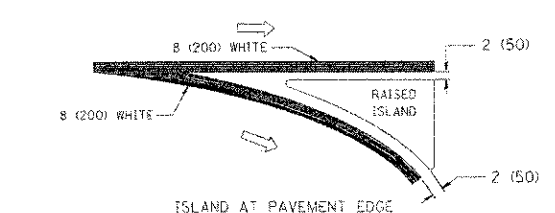
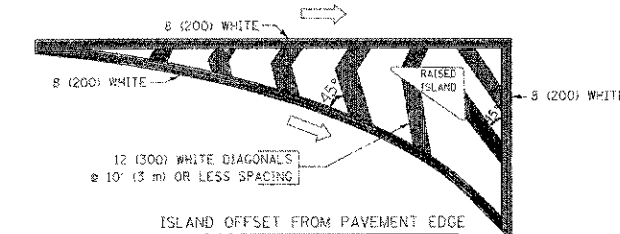
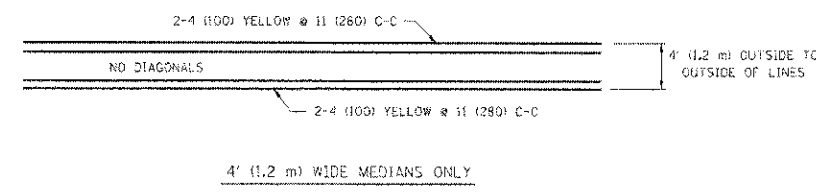
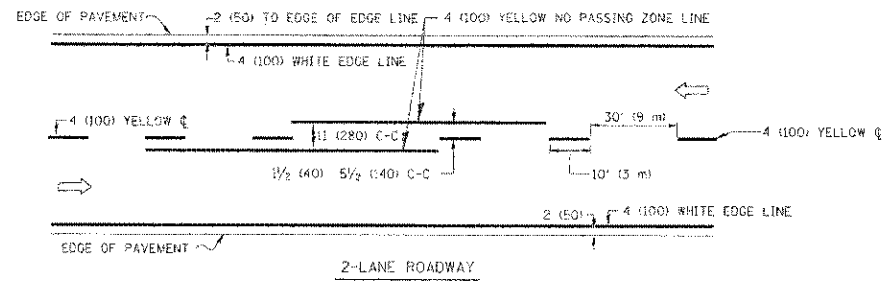
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

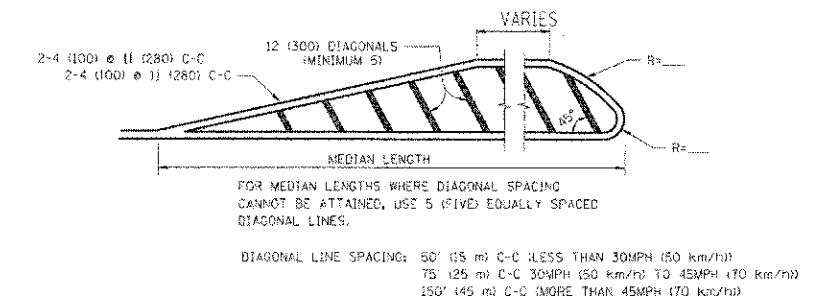
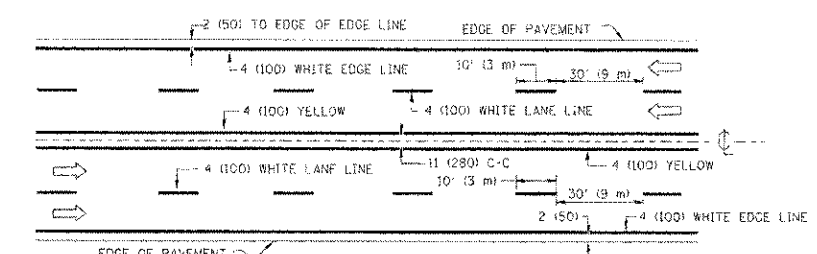
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

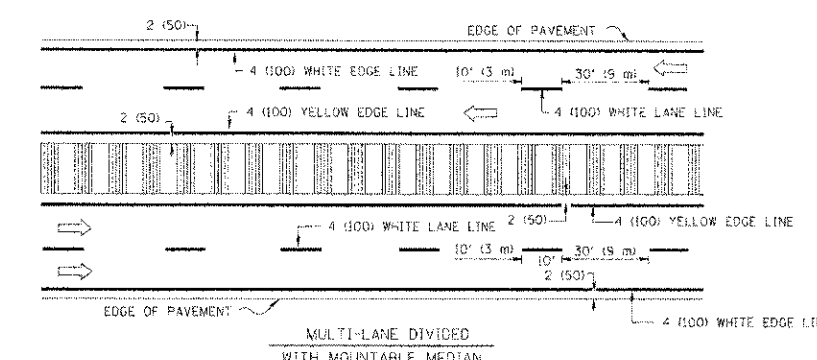
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3791	08-00043-00-FP	COOK	27	15
TC-10			CONTRACT NO. 63747	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



TYPICAL ISLAND MARKING



TYPICAL PAINTED MEDIAN MARKING

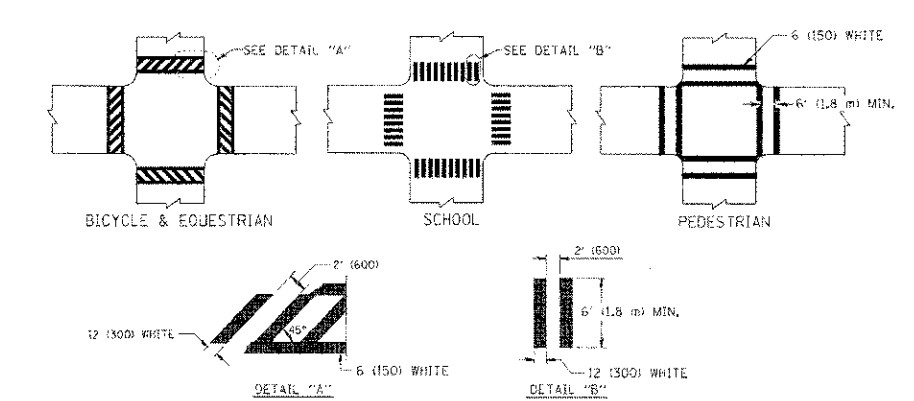


TYPICAL LANE AND EDGE LINE MARKING

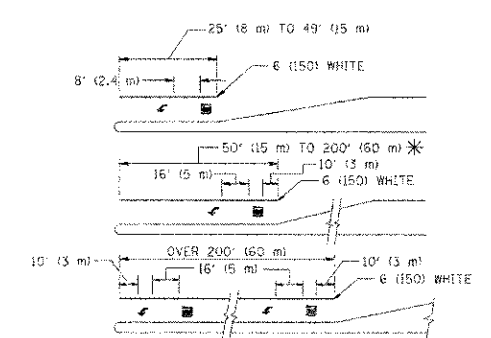
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 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' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) 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.
SCORE 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 78000; AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 78000.

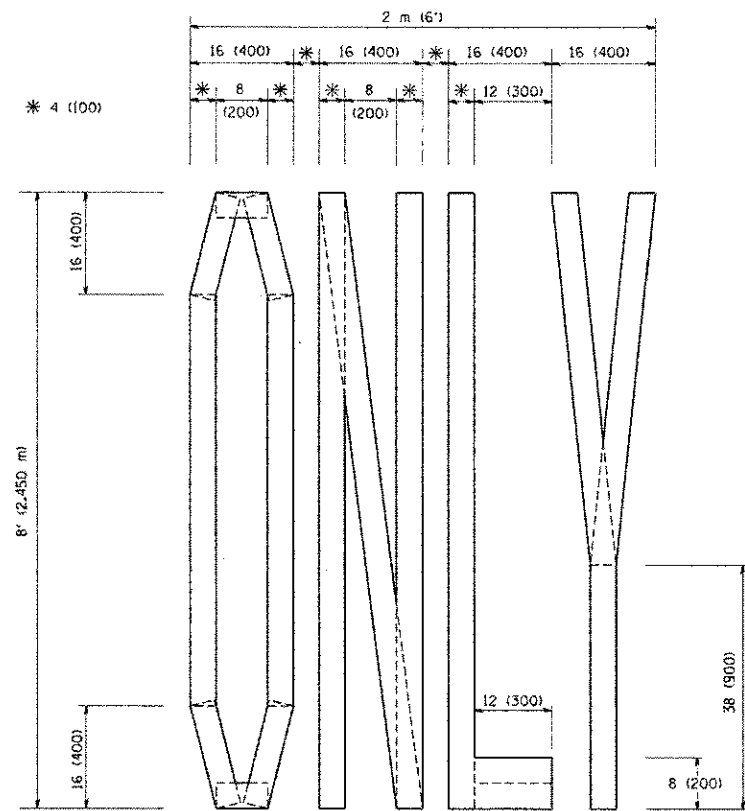
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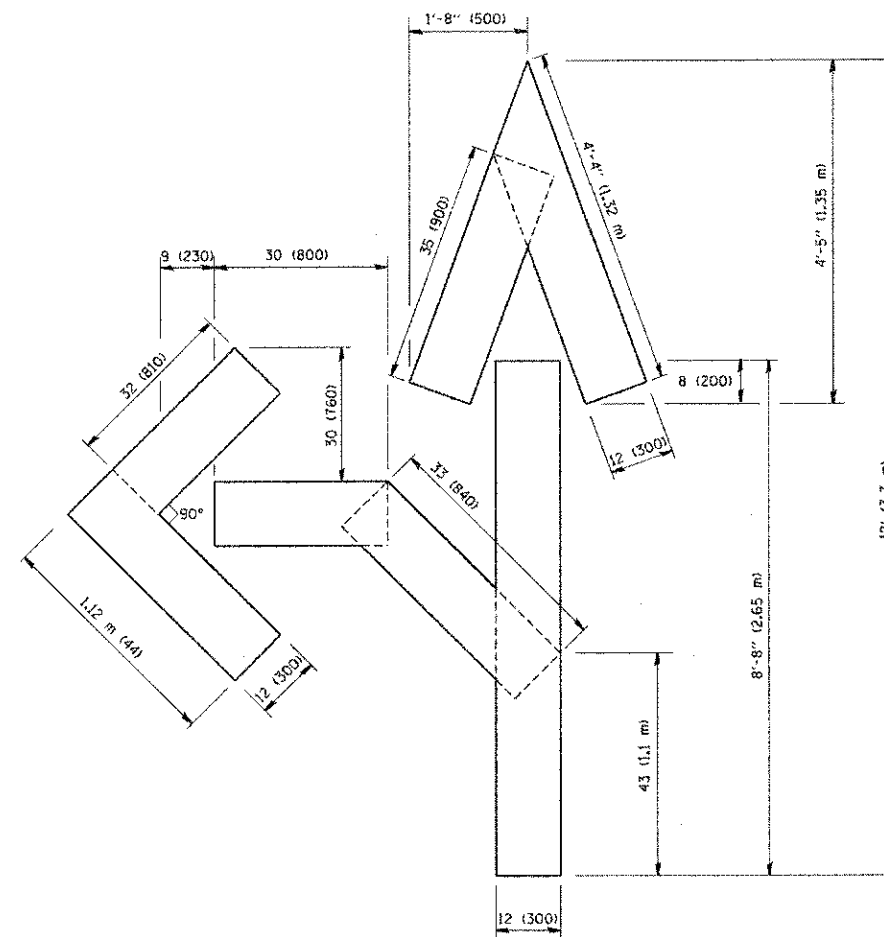
TYPICAL CROSSWALK MARKING



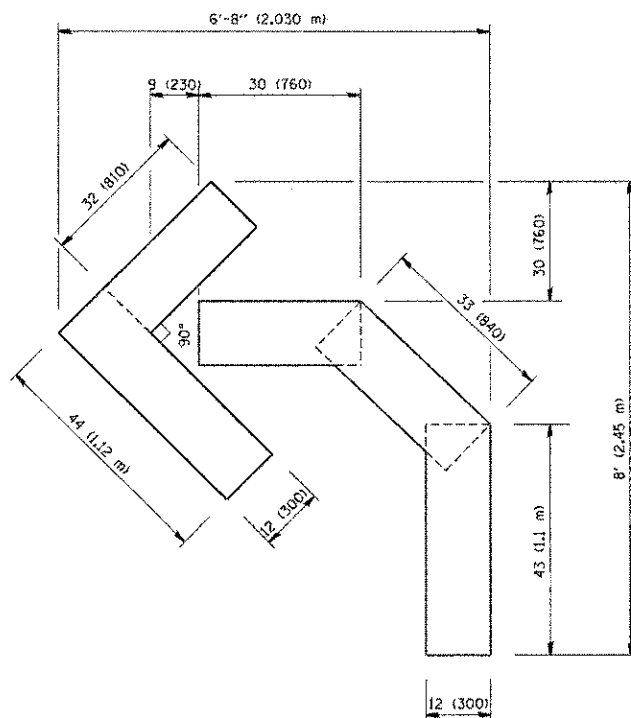
TYPICAL TURN LANE MARKING



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.

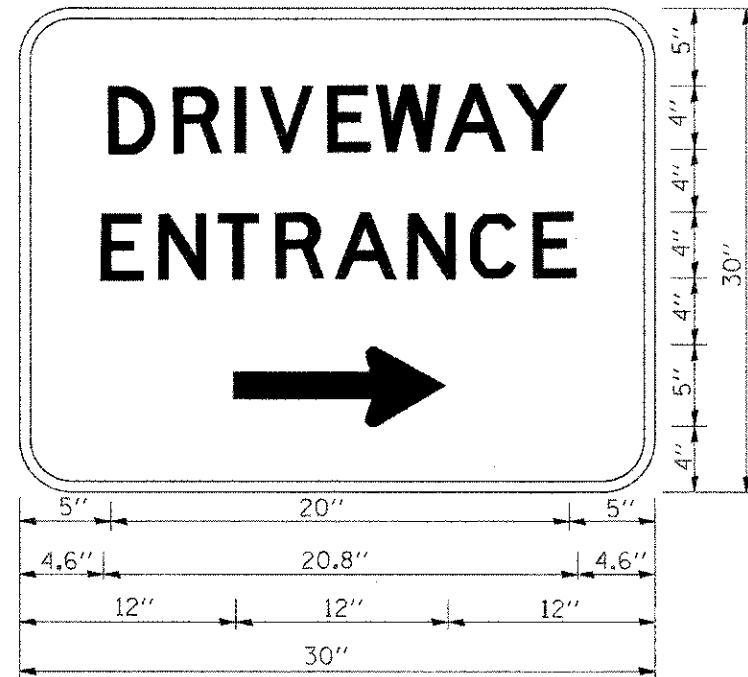
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		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-PP	COOK	27	17
TC-16			CONTRACT NO. 63747	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



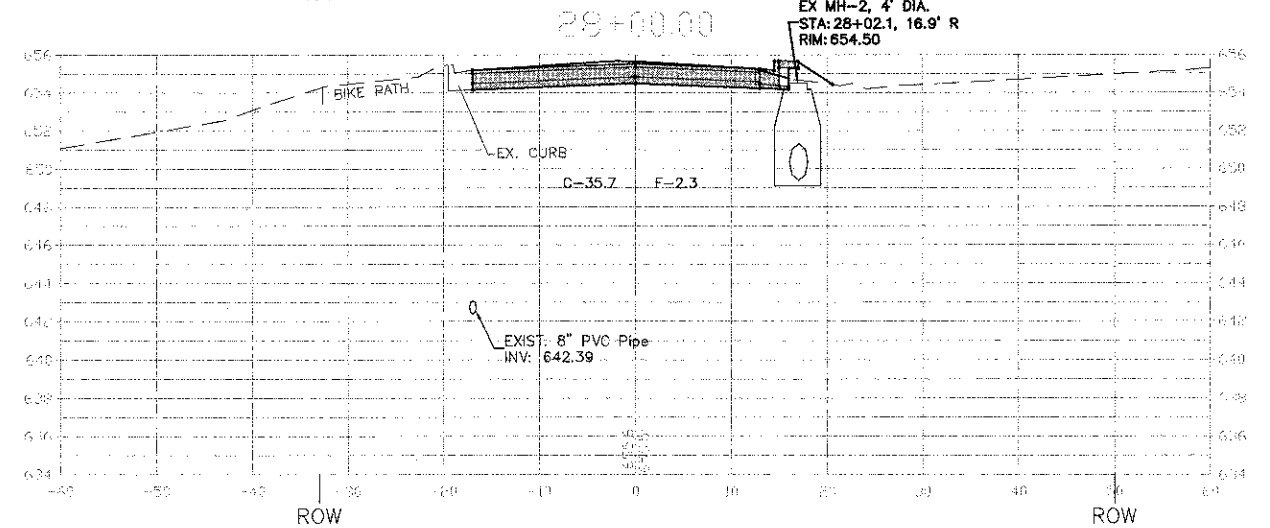
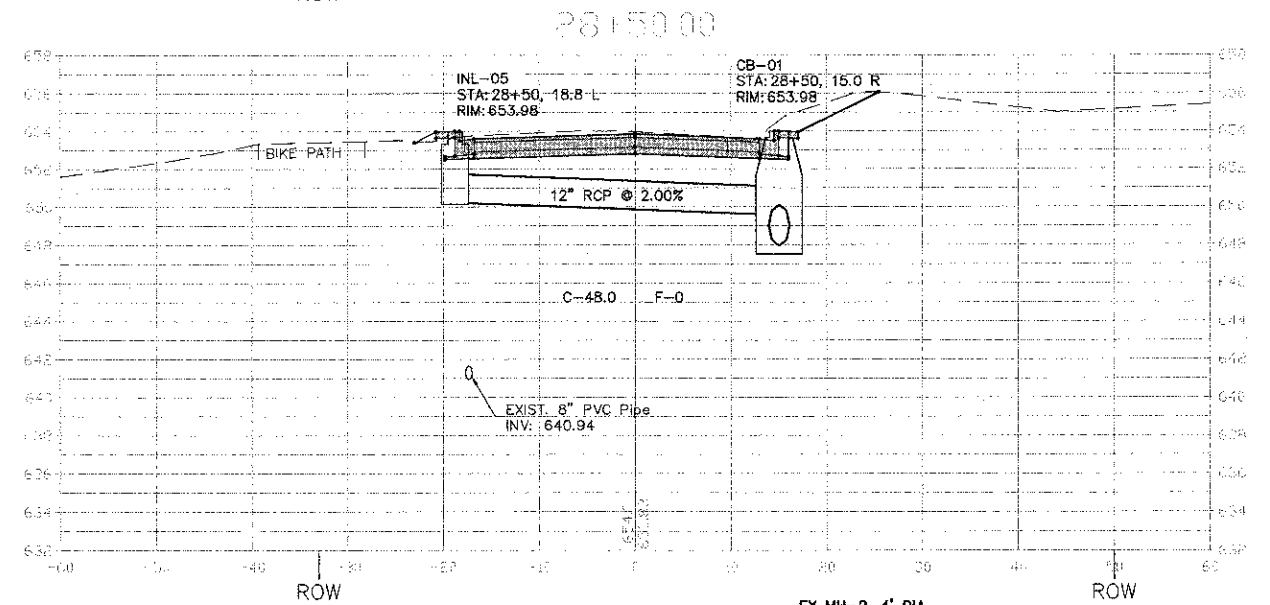
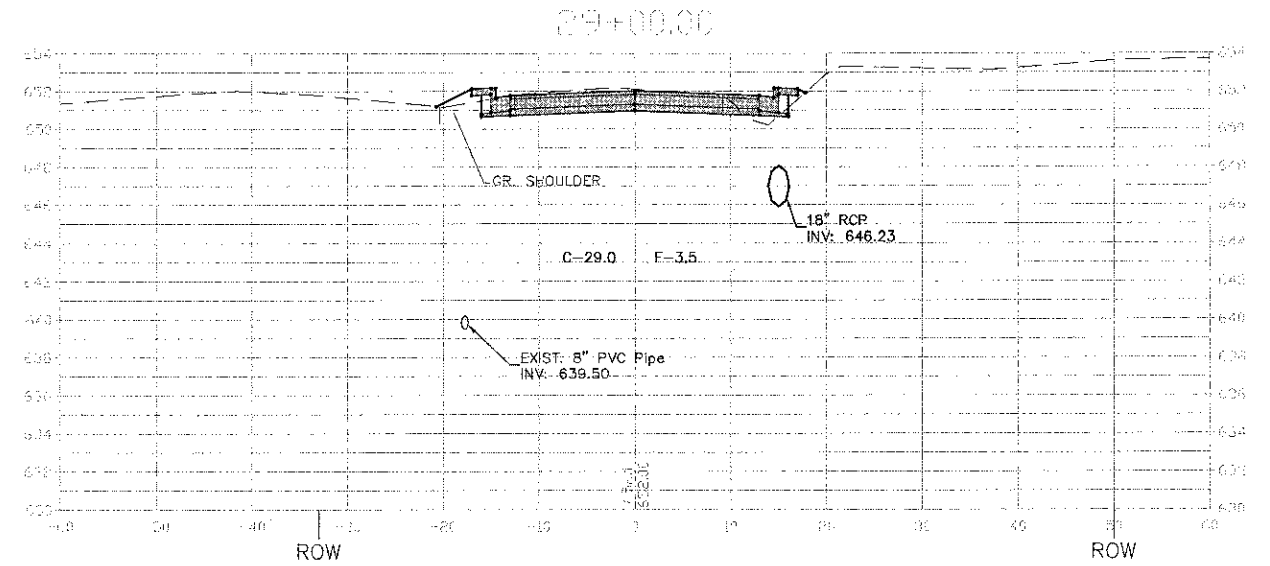
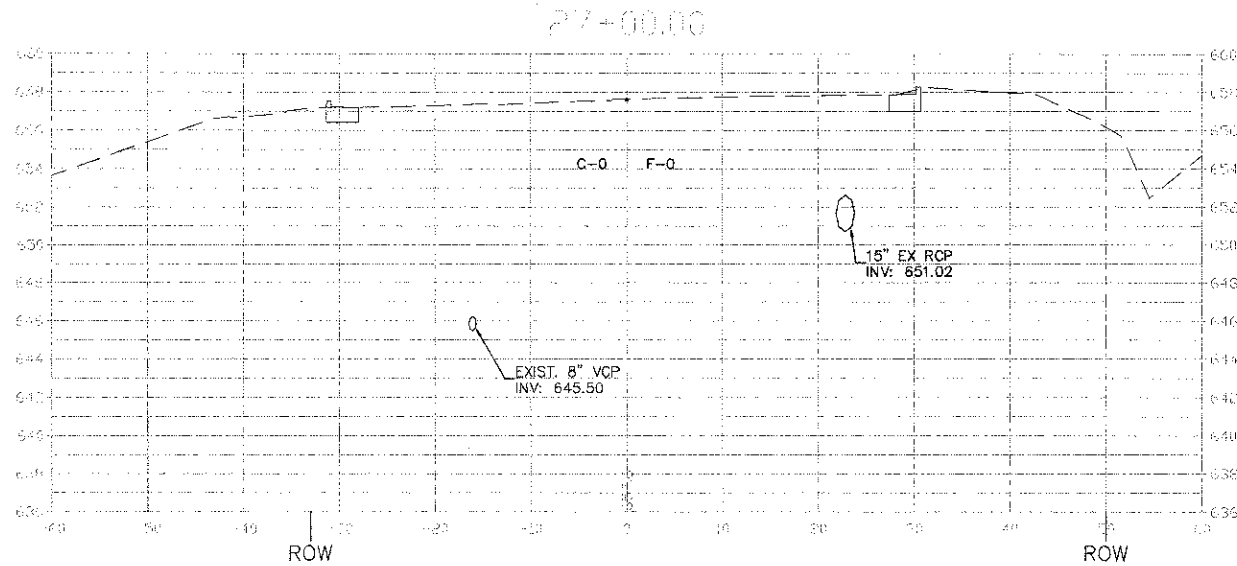
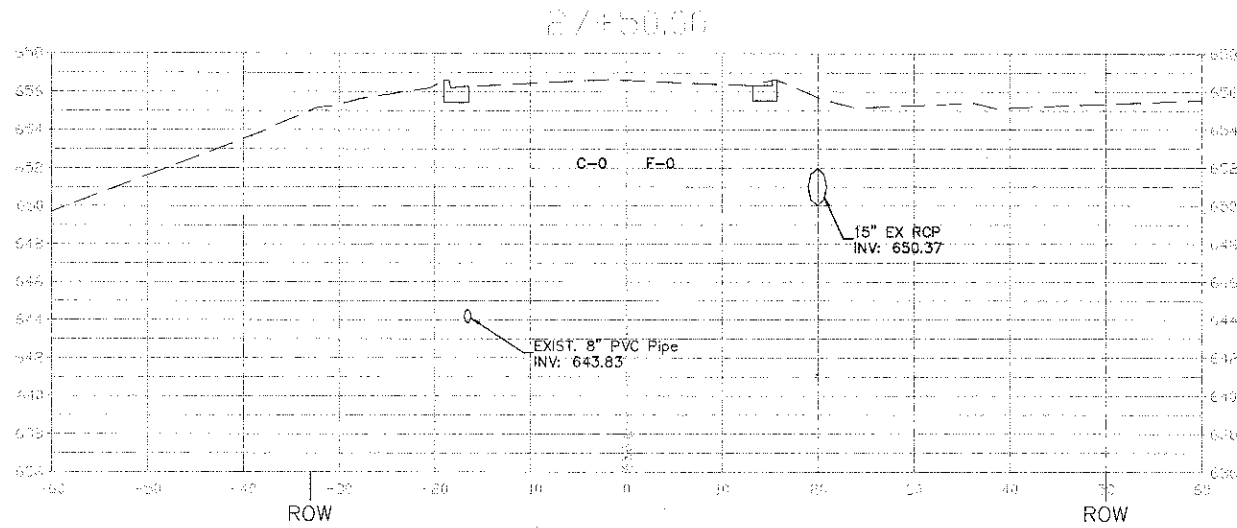
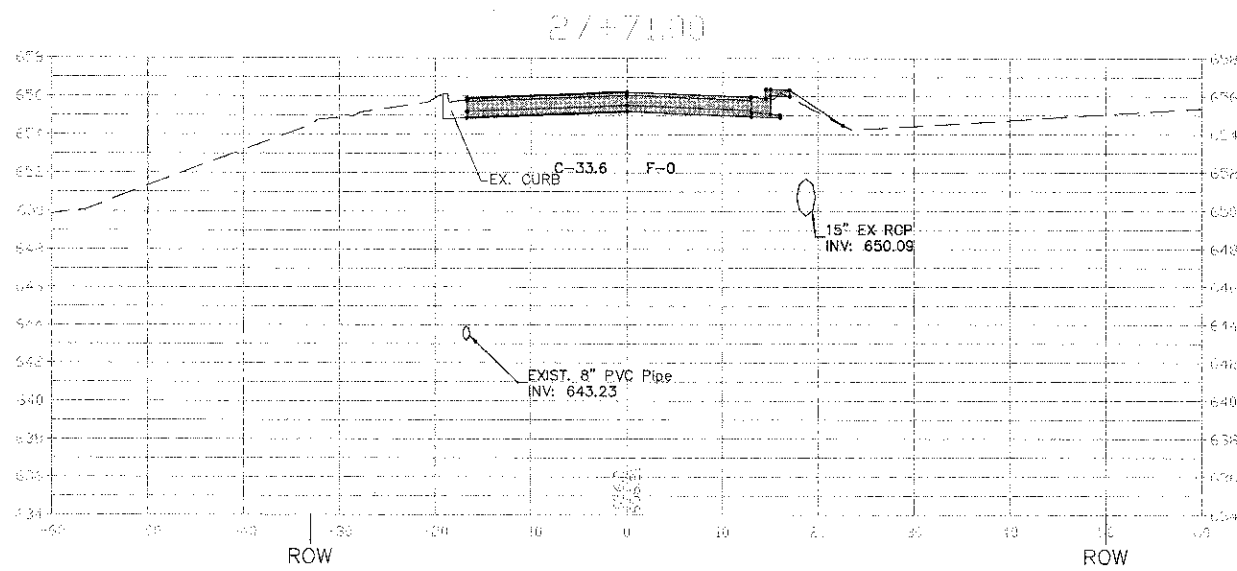
3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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		CHECKED -	REVISED -					TC-26		CONTRACT NO. 63747			
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

Plot Date: 02/15/07
 Plot Scale: 1/4" = 1'-0"
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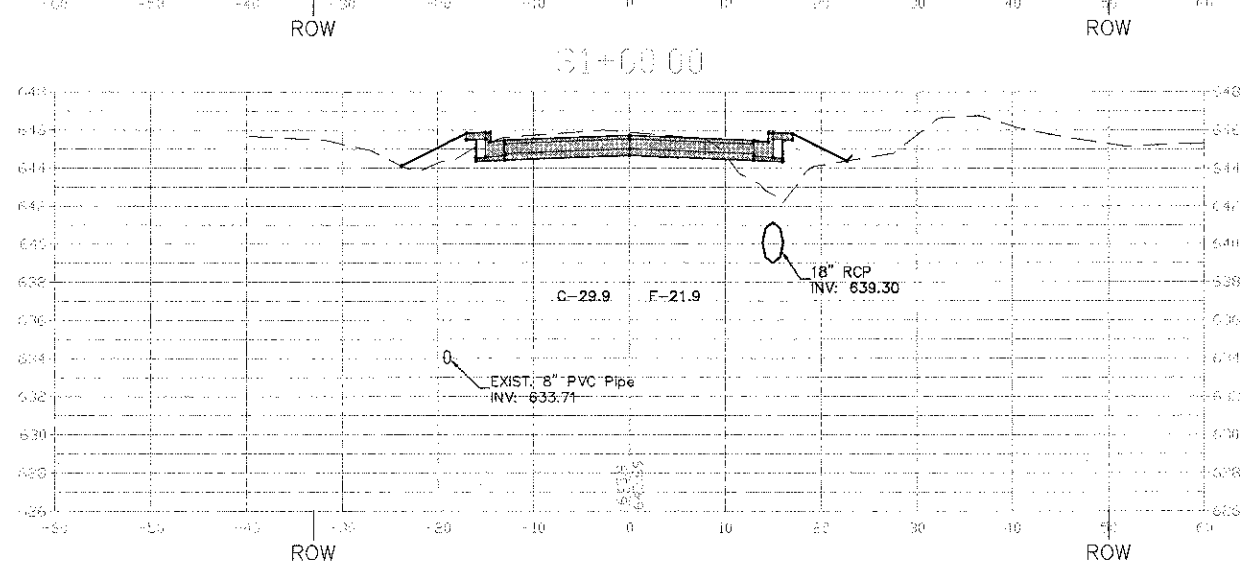
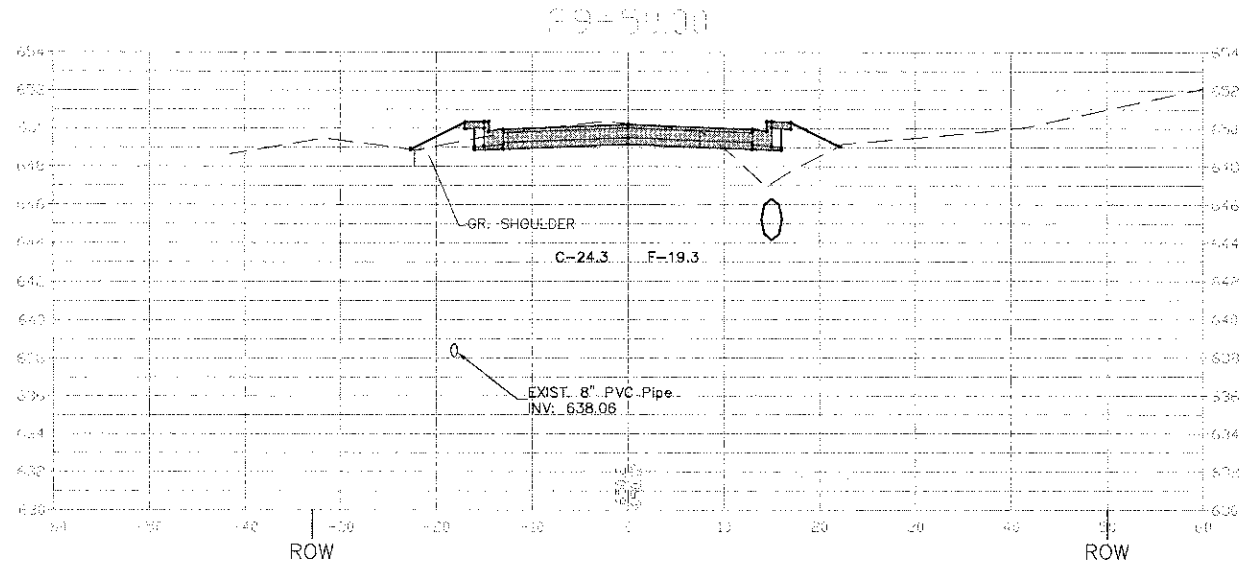
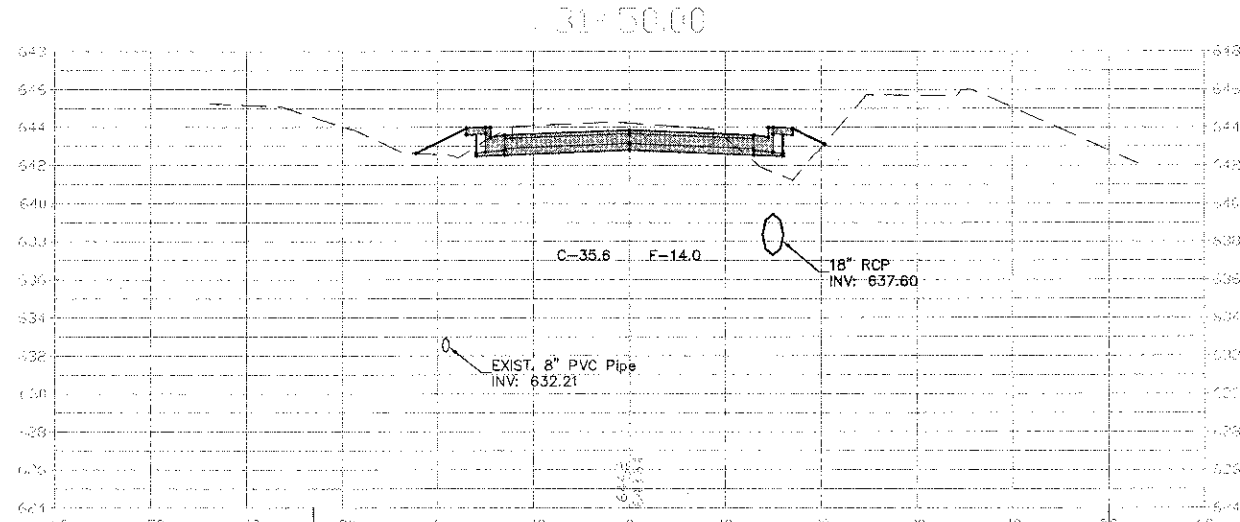
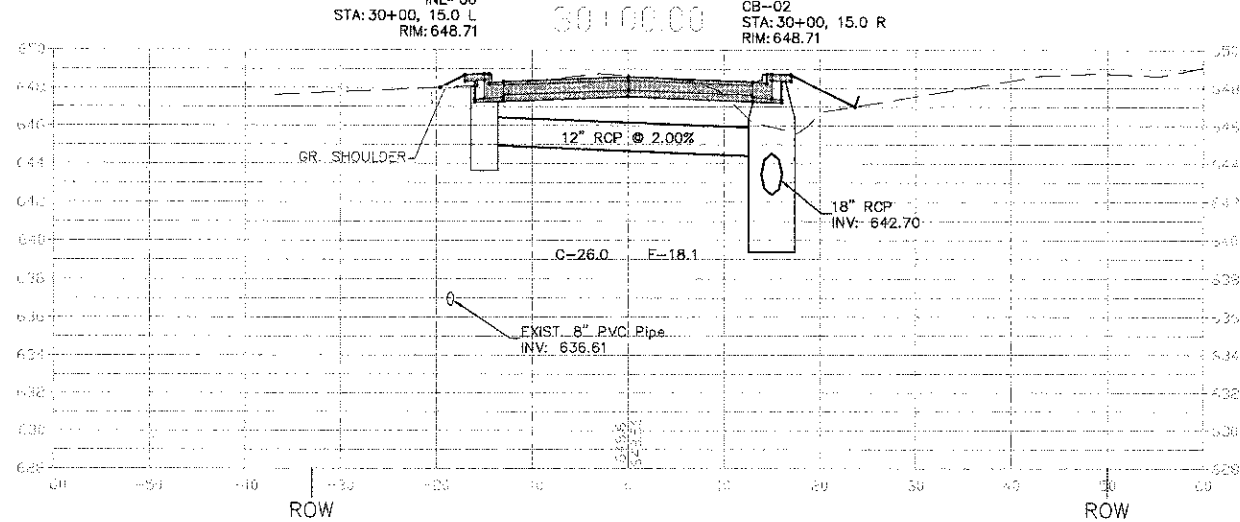
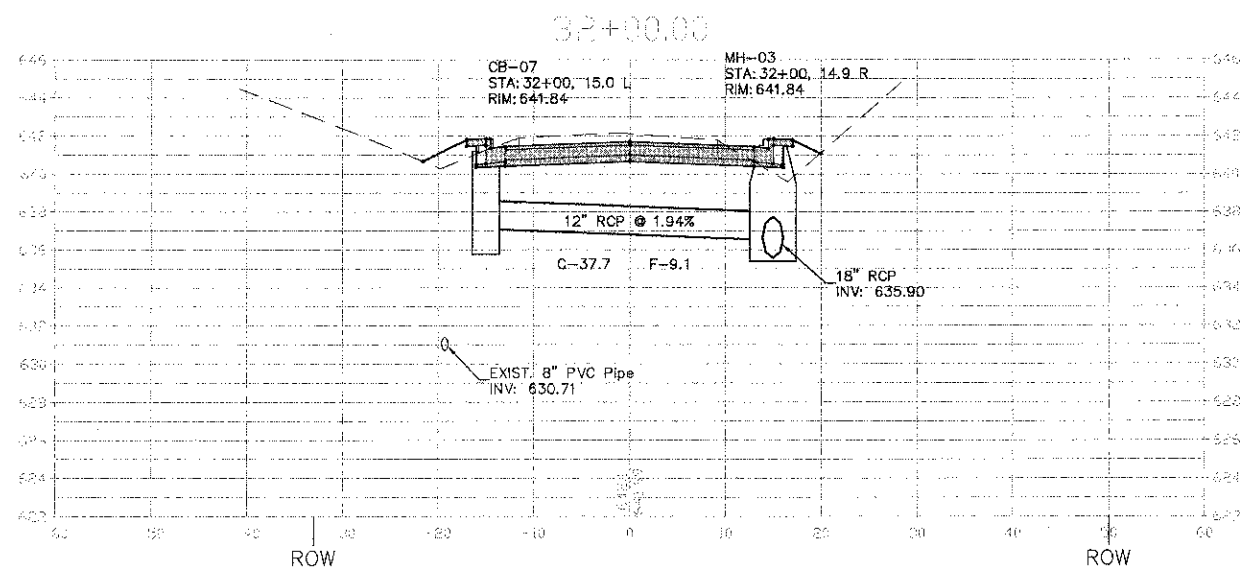
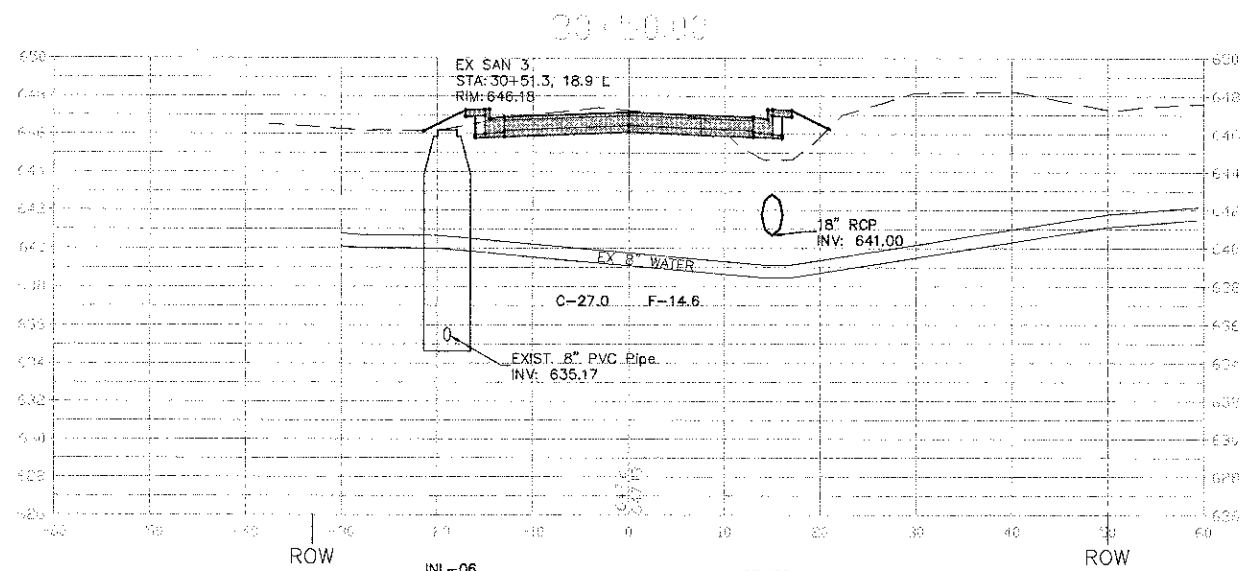
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	PLOT DATE = Sep 05, 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

76TH AVENUE 131ST STREET TO 127TH STREET
CROSS SECTIONS STA. 27+00 TO STA. 29+00

SCALE: 1"=10' H 1"=5' V SHEET NO. 1 OF 9 SHEETS | STA. 27+00 TO STA. 29+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-PP	COOK	27	19
CONTRACT NO. 63747				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
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PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -
PLOT DATE = Sep 05, 2012		DATE -	REVISED -

INL-06 STA: 30+00, 15.0 L RIM: 648.71	CB-02 STA: 30+00, 15.0 R RIM: 648.71
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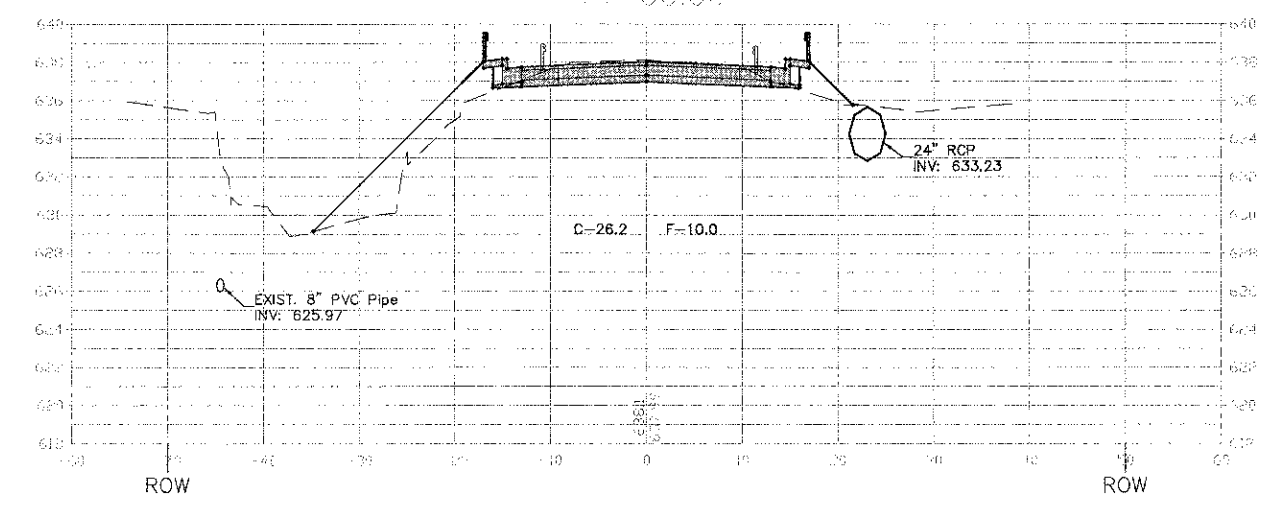
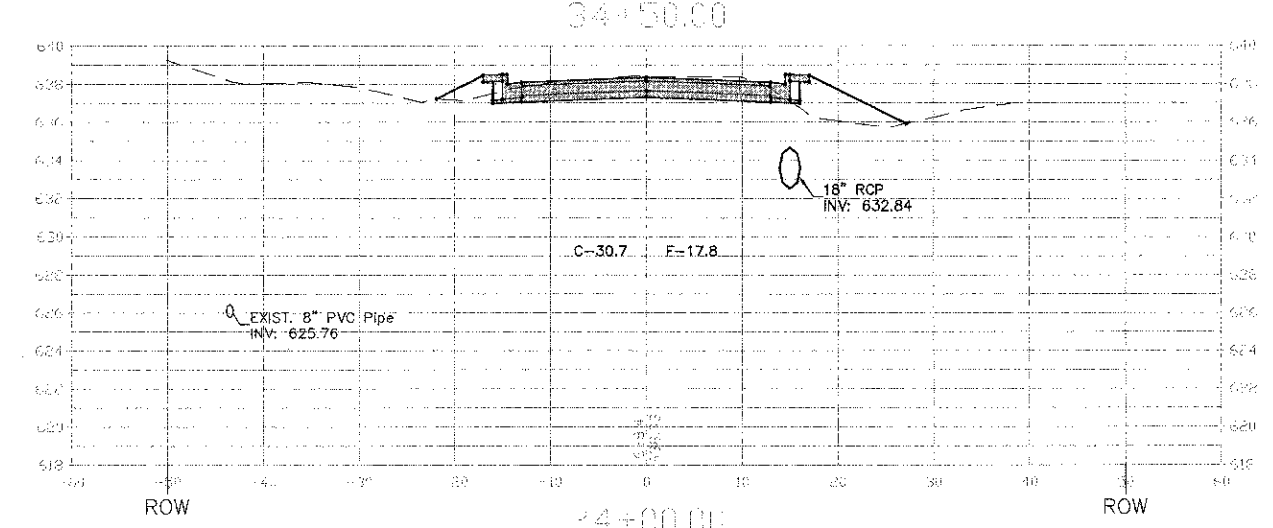
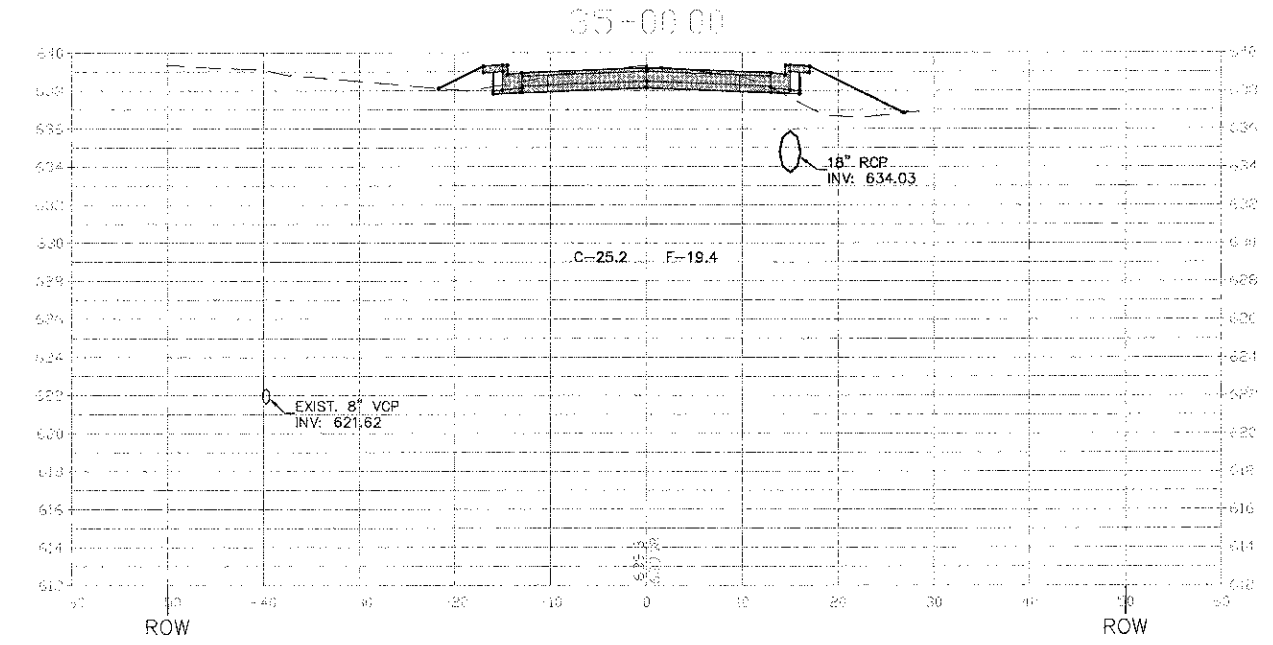
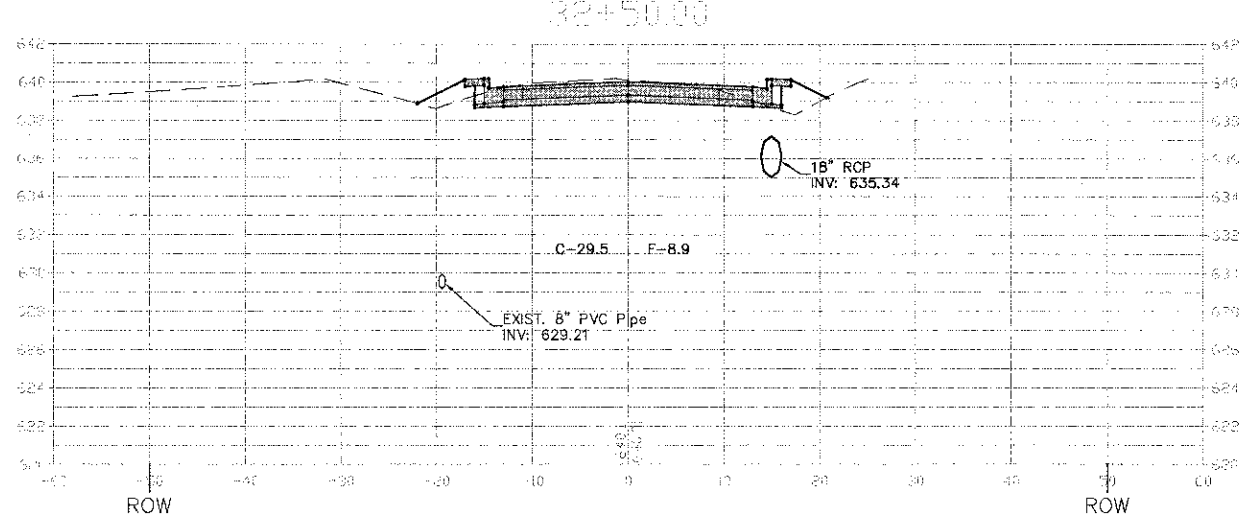
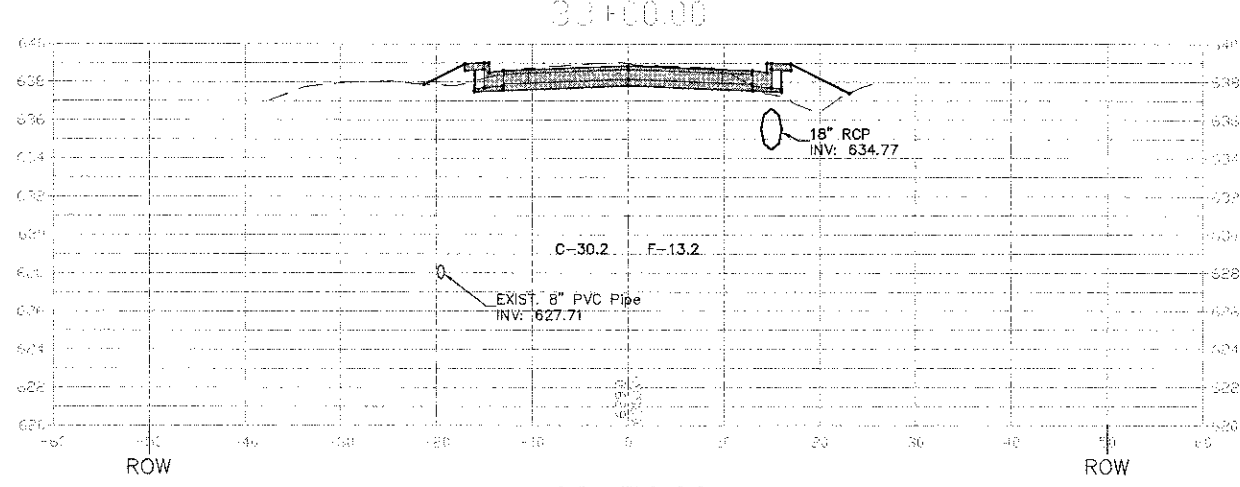
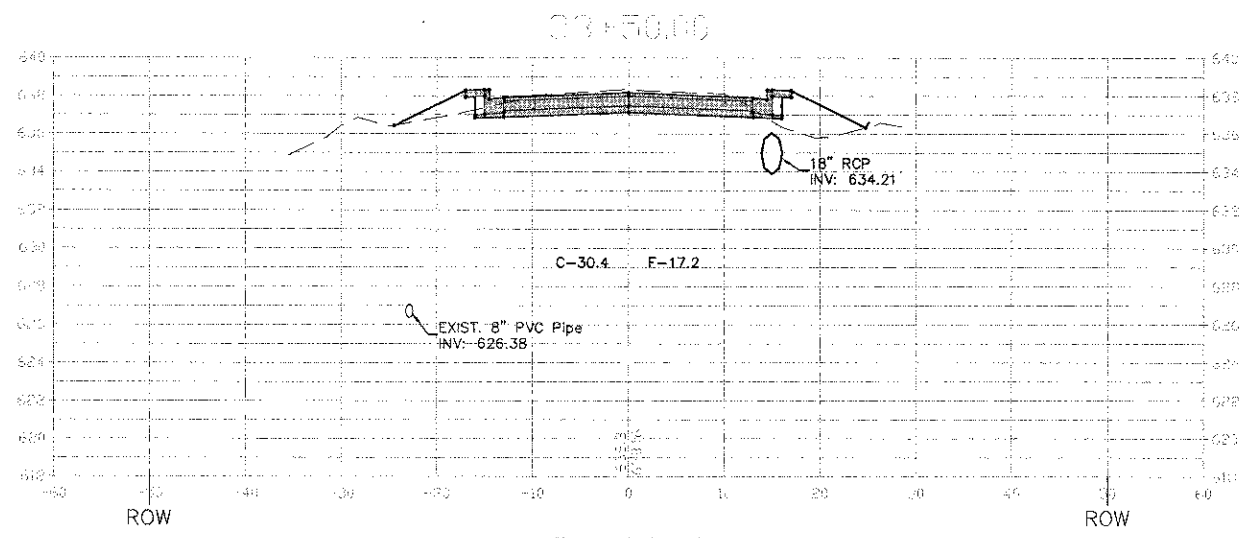
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**76TH AVENUE 131ST STREET TO 127TH STREET
CROSS SECTIONS STA. 29+50 TO STA. 32+00**

SCALE: 1"=10' H 1"=5' V SHEET NO. 2 OF 9 SHEETS STA. 29+50 TO STA. 32+00

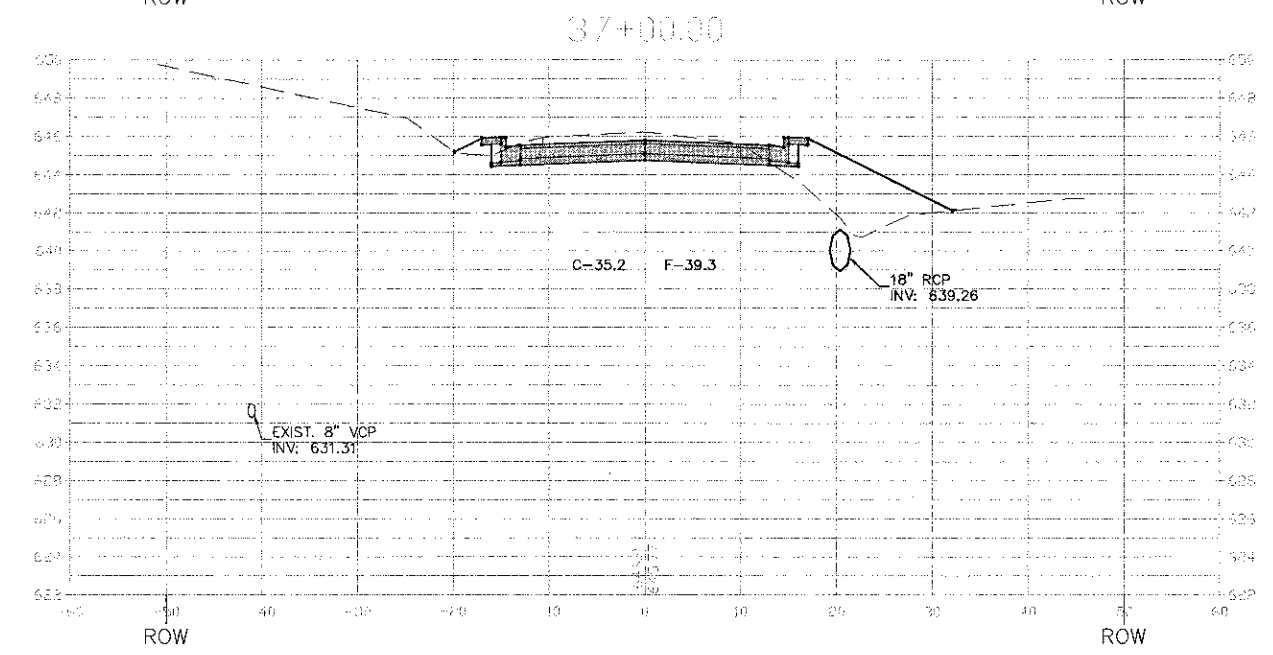
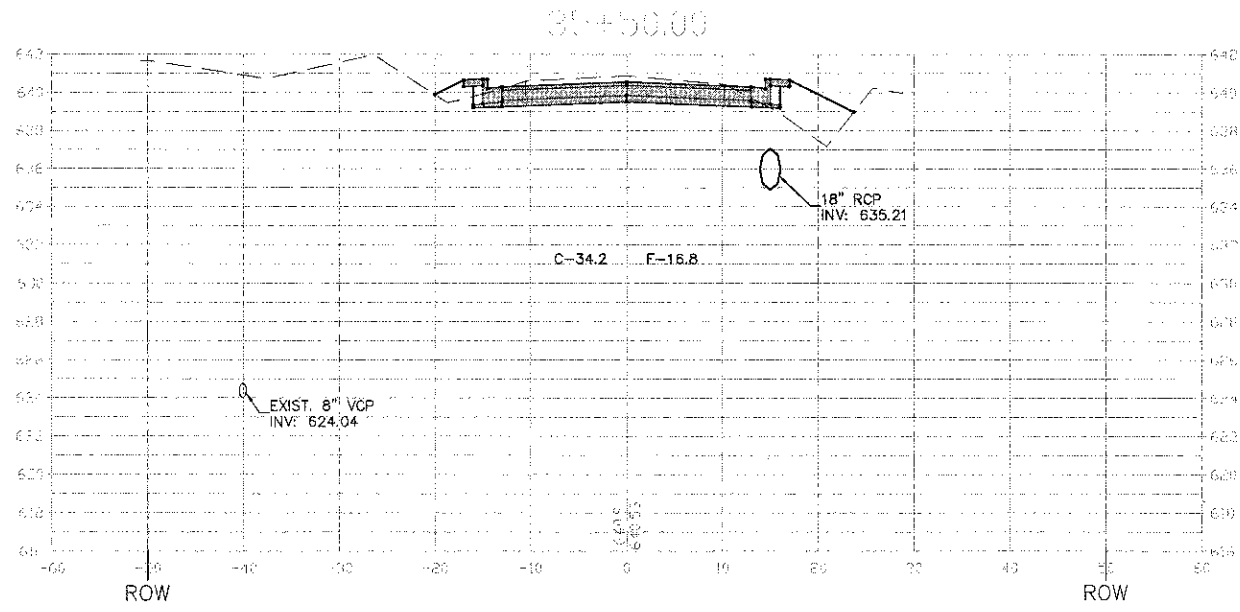
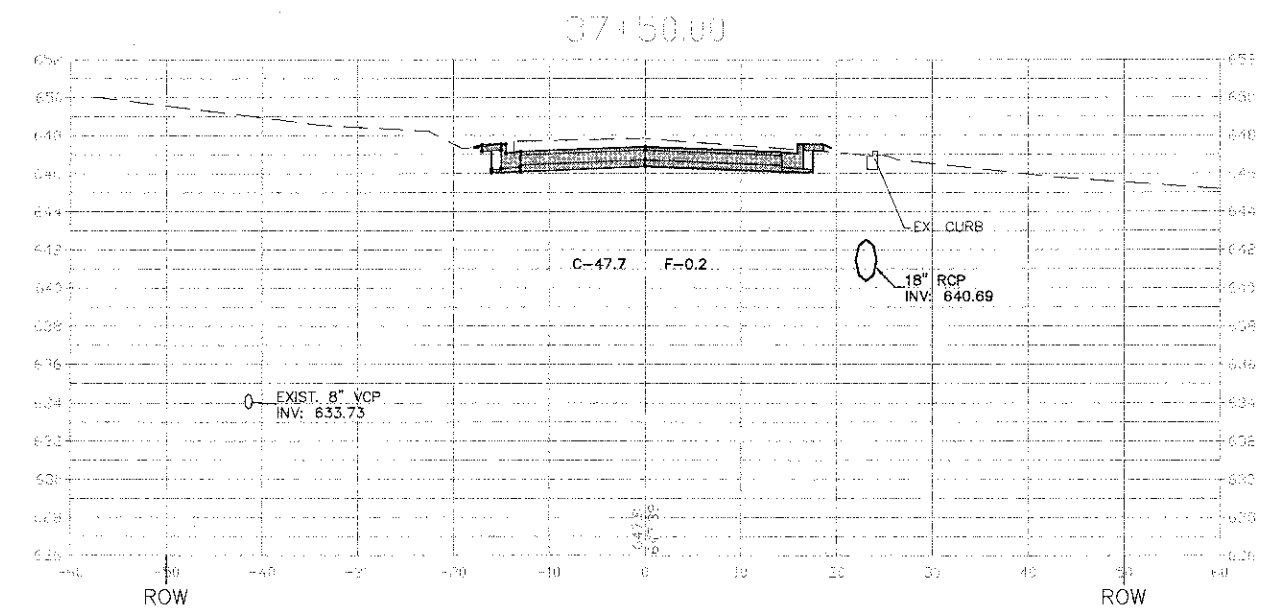
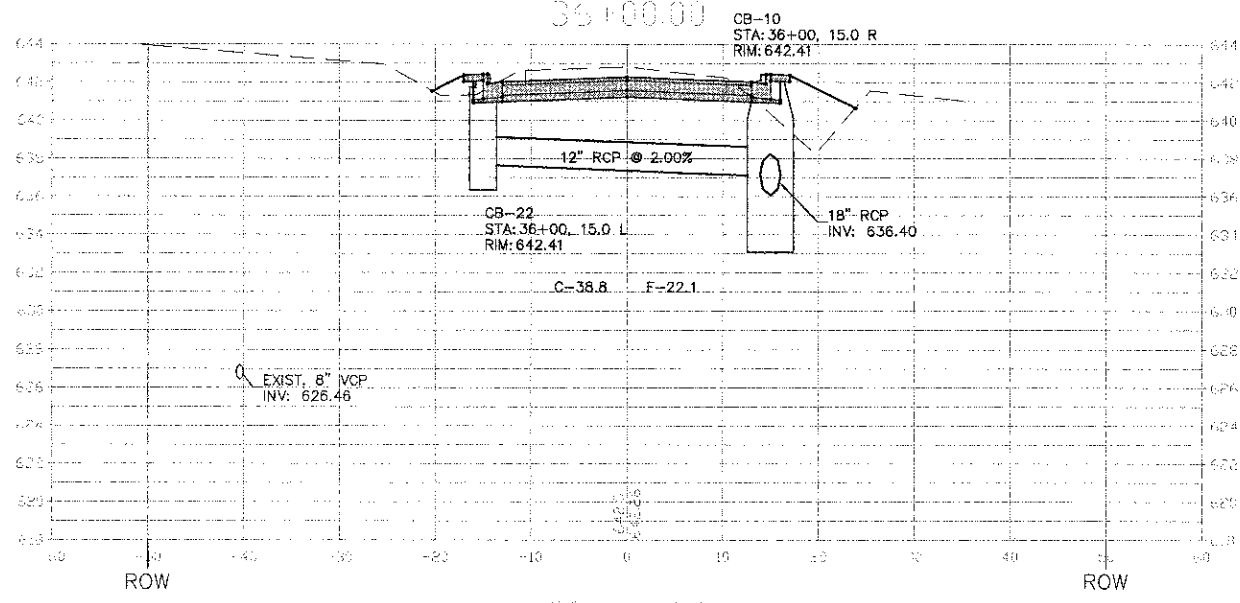
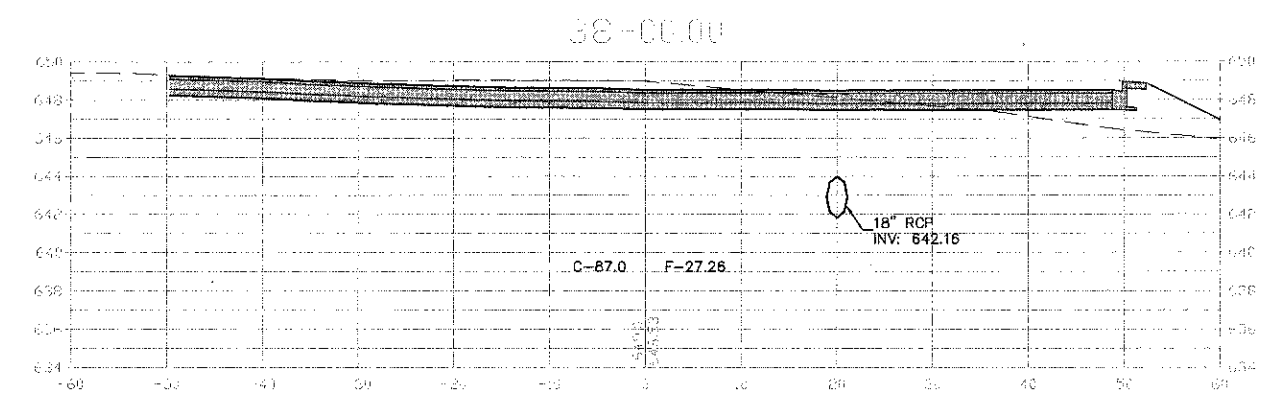
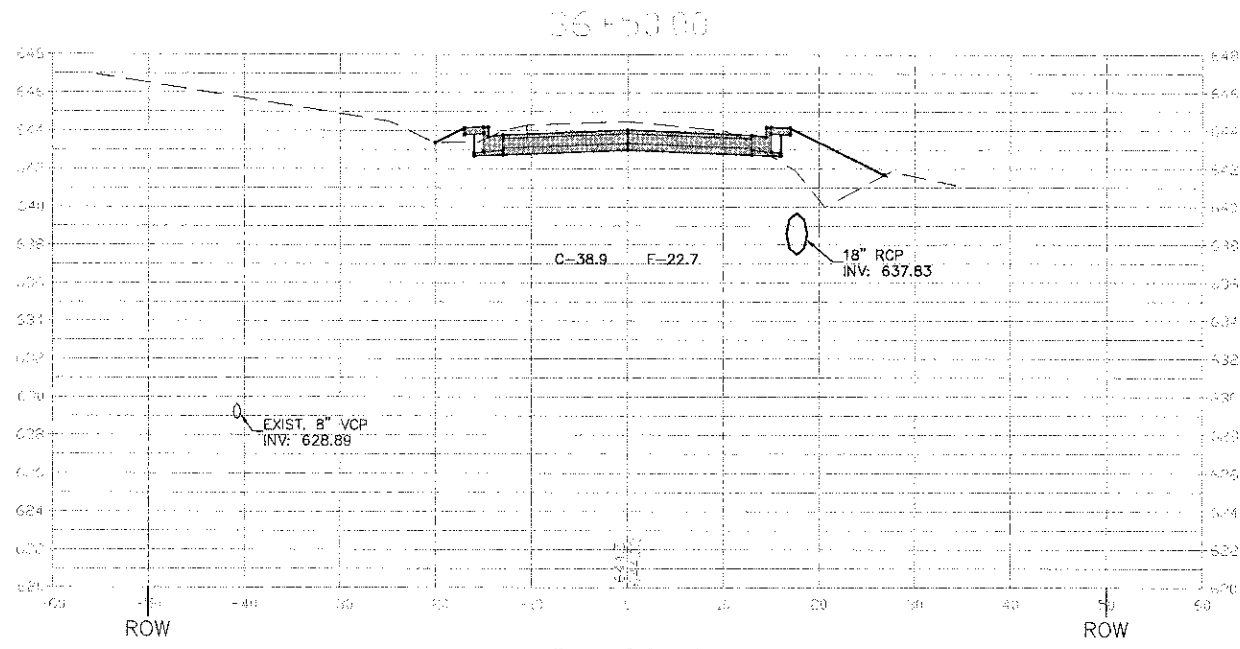
F.A.P. RTE. 3791	SECTION 08-00043-00-FP	COUNTY COOK	TOTAL SHEETS 27	SHEET NO. 20
CONTRACT NO. 63747				
ILLINOIS FED. AID PROJECT				

H:\11-PH\3004\PLANS-ENG\REV-1\11-24-04_SITE_2012-09-05.dwg

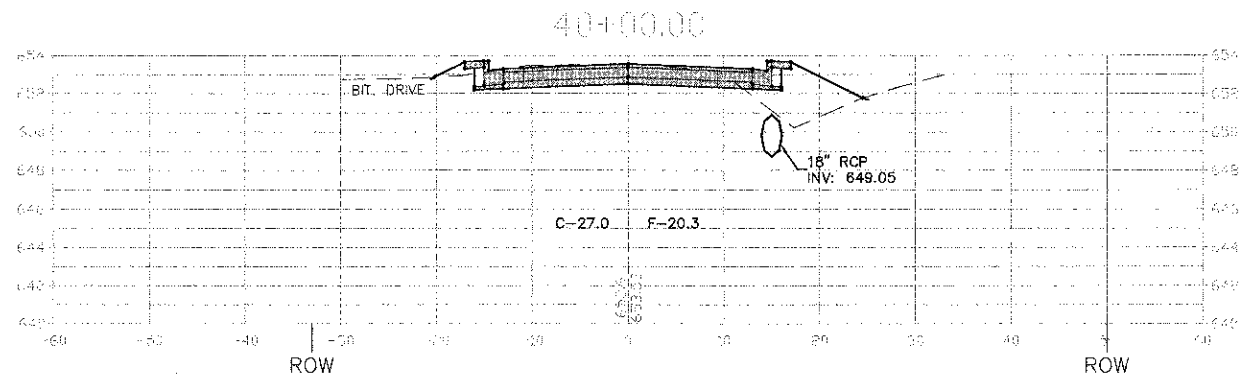
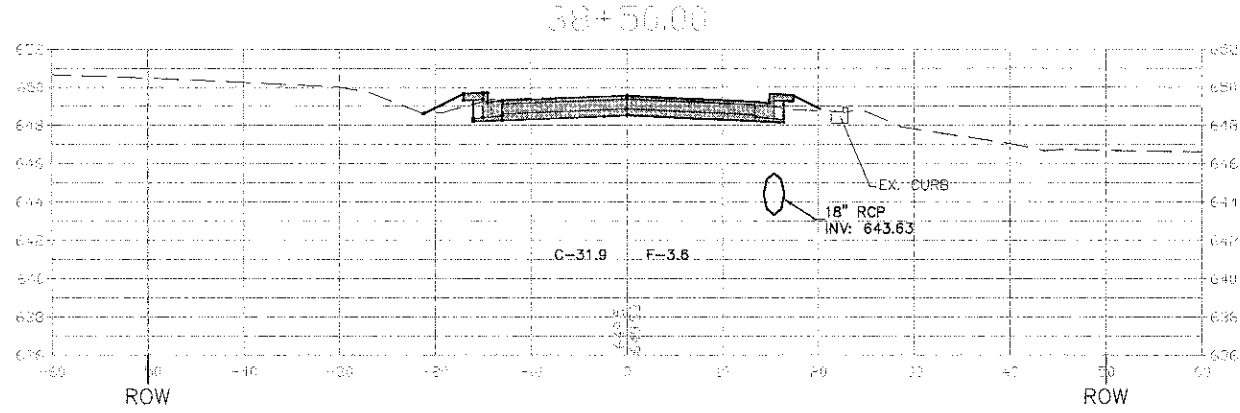
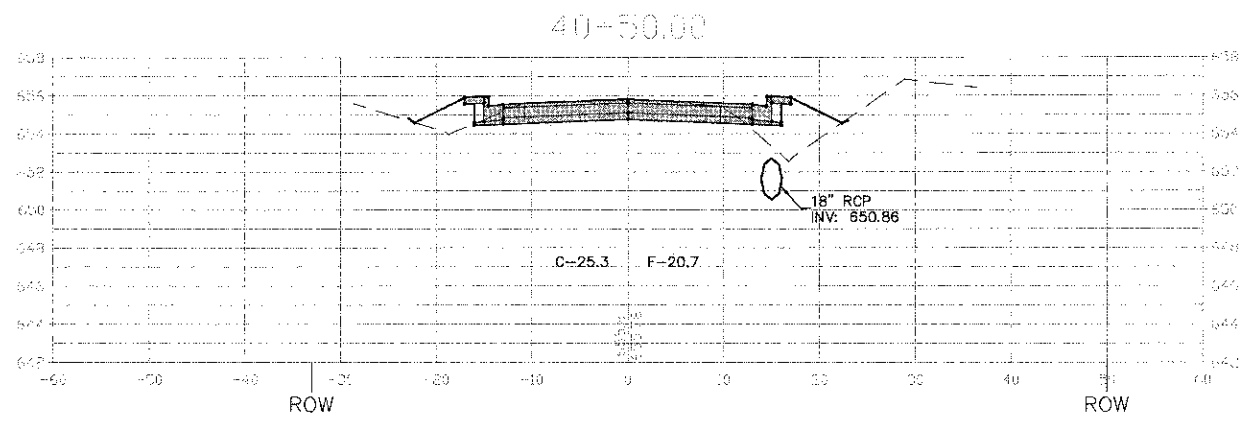
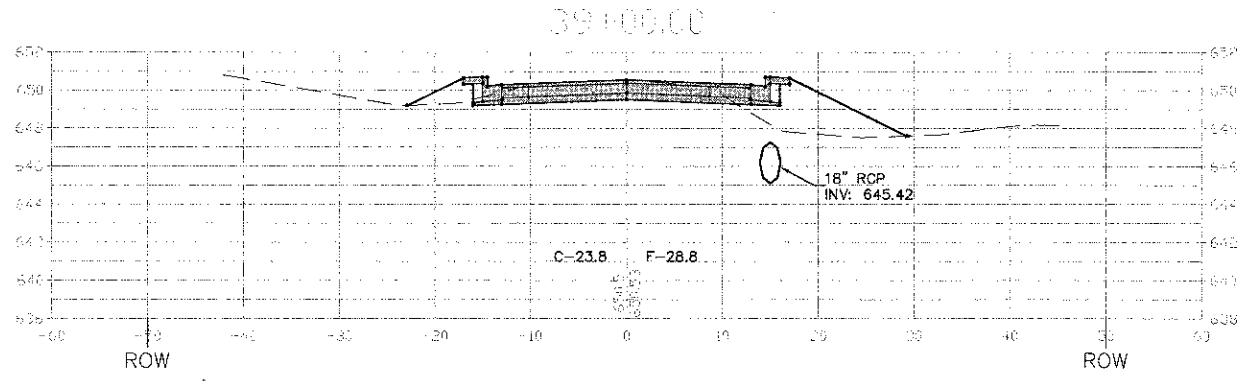
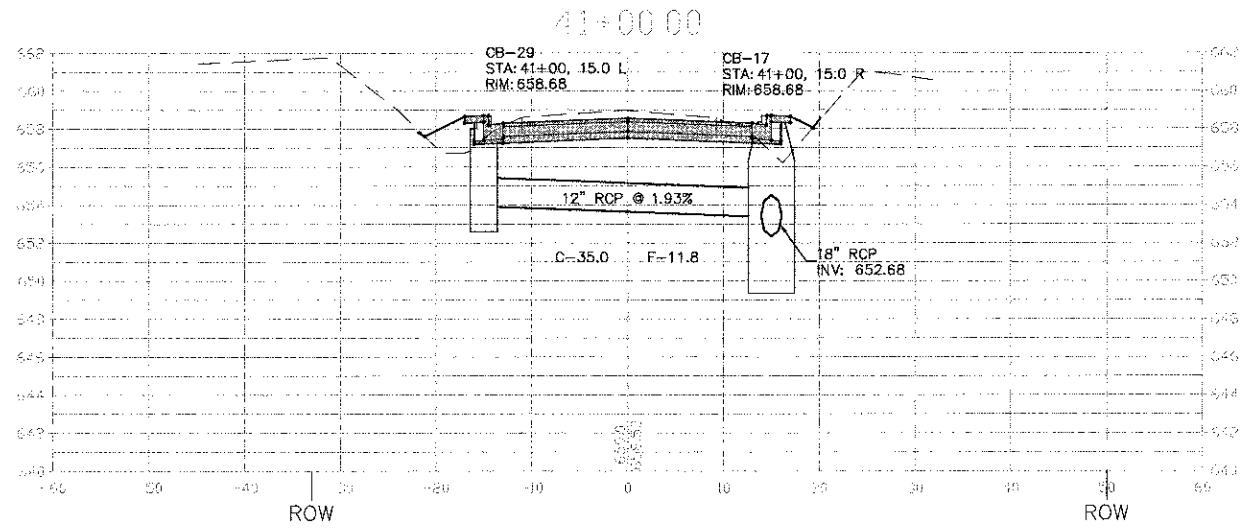
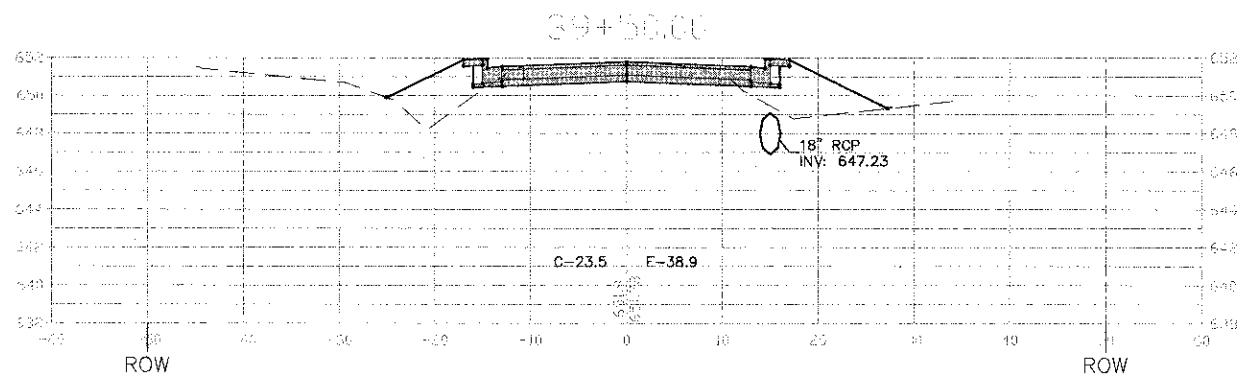


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PLOT DATE = Sep 05, 2012	DATE -	CHECKED -	REVISED -			SCALE: 1"=10' & 1"=5'		SHEET NO. 3 OF 9 SHEETS		STA. 32+50 TO STA. 35+00	
						CONTRACT NO. 63747					

I:\11-PH\3004\PLANS-ENG\REV-1\11-PH-3004_SITE_2012-09-05.dwg
 Plot Date: Sep 05, 2012
 Plot Scale: 1"=10' & 1"=5'

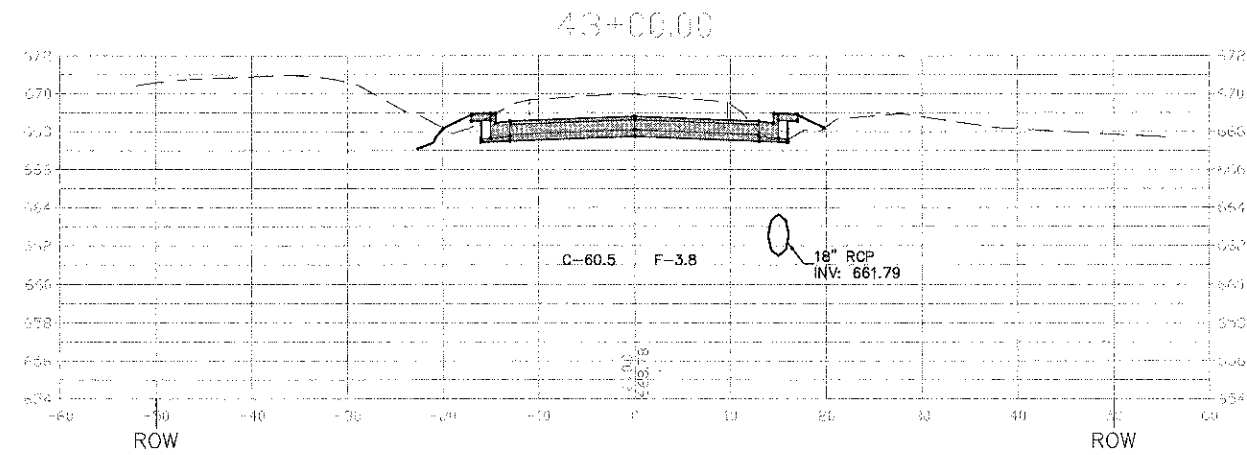
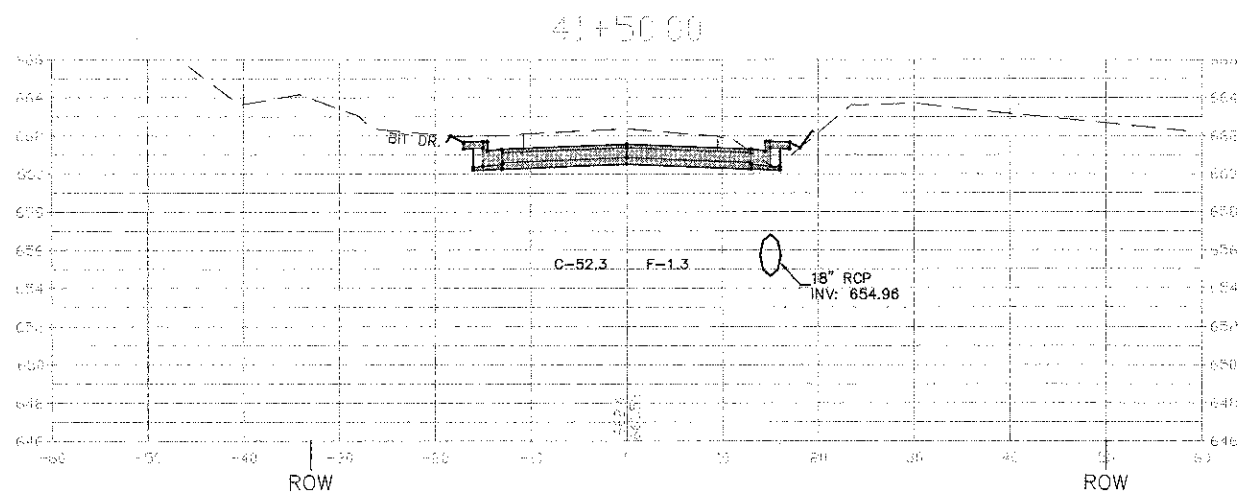
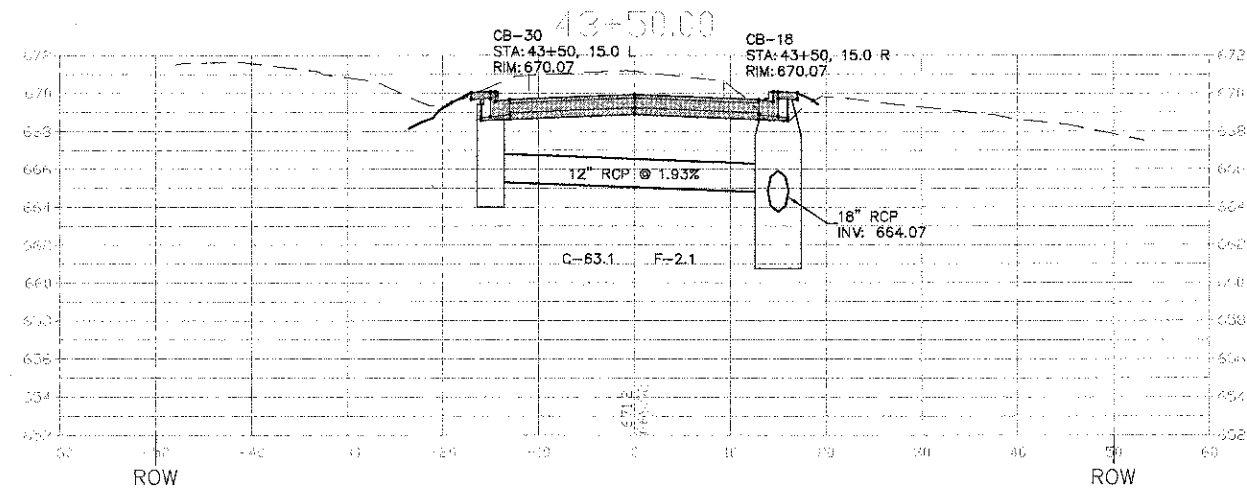
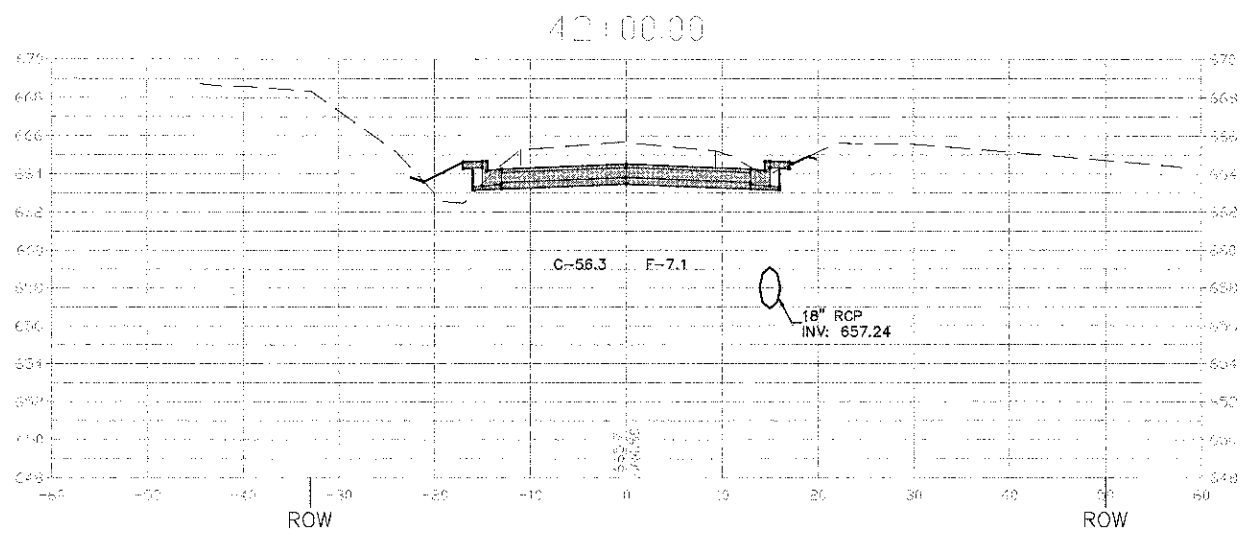
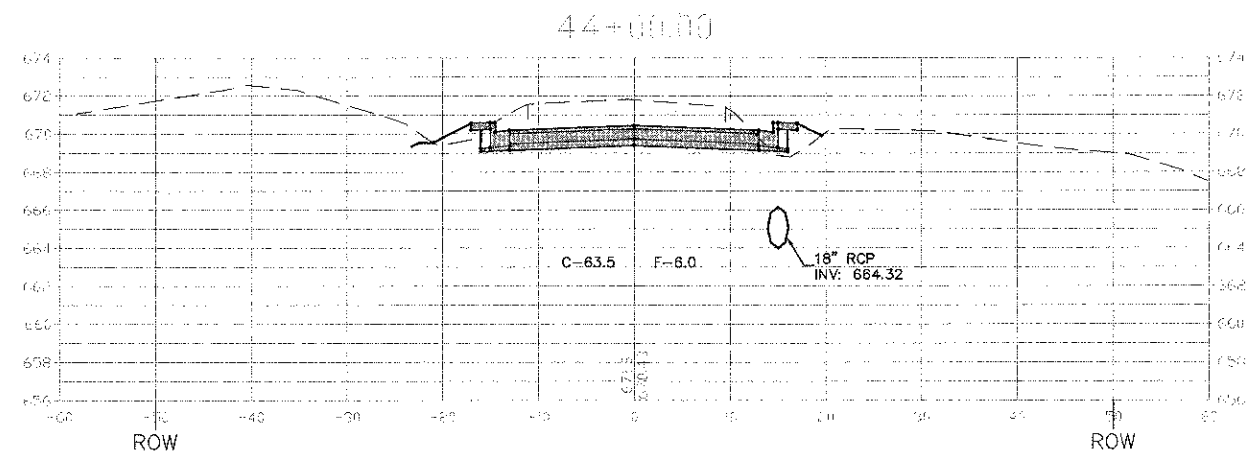
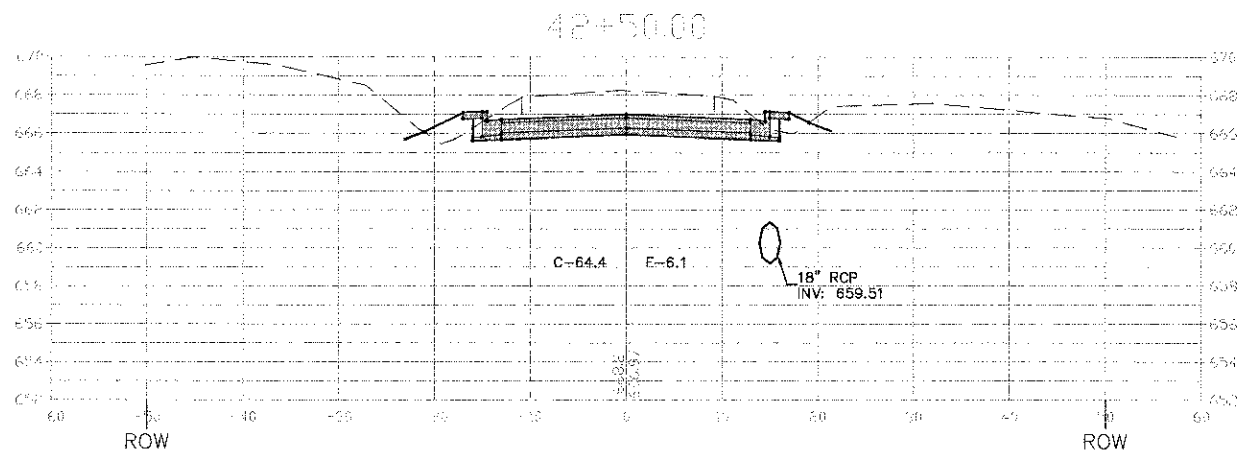


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PLOT SCALE = \$SCALE\$	PLOT DATE = Sep 05, 2012	DRAWN -	REVISED -			CONTRACT NO. 63747				
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -			SCALE: 1"=10' H 1"=5' V SHEET NO. 4 OF 9 SHEETS STA. 35+50 TO STA. 38+00				



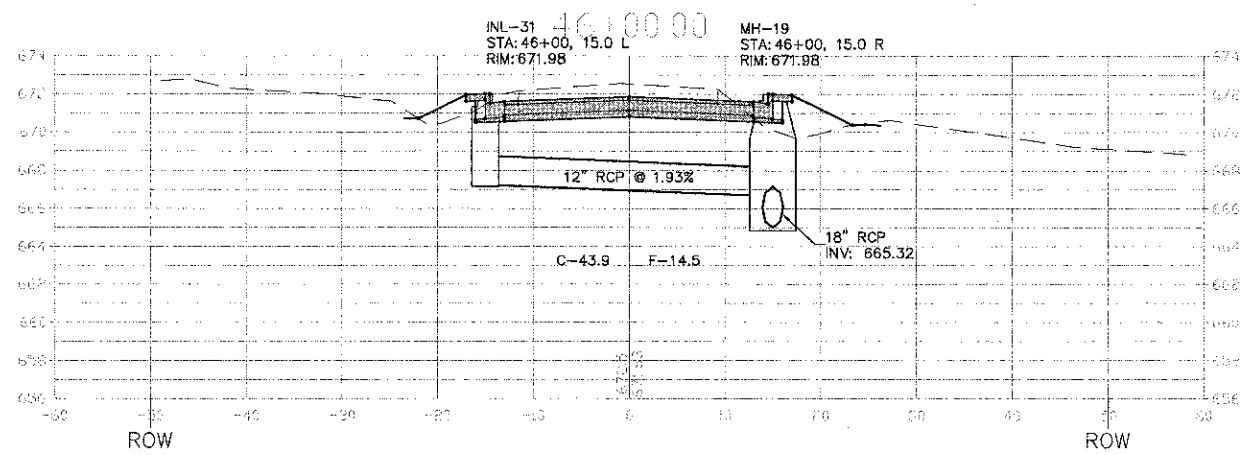
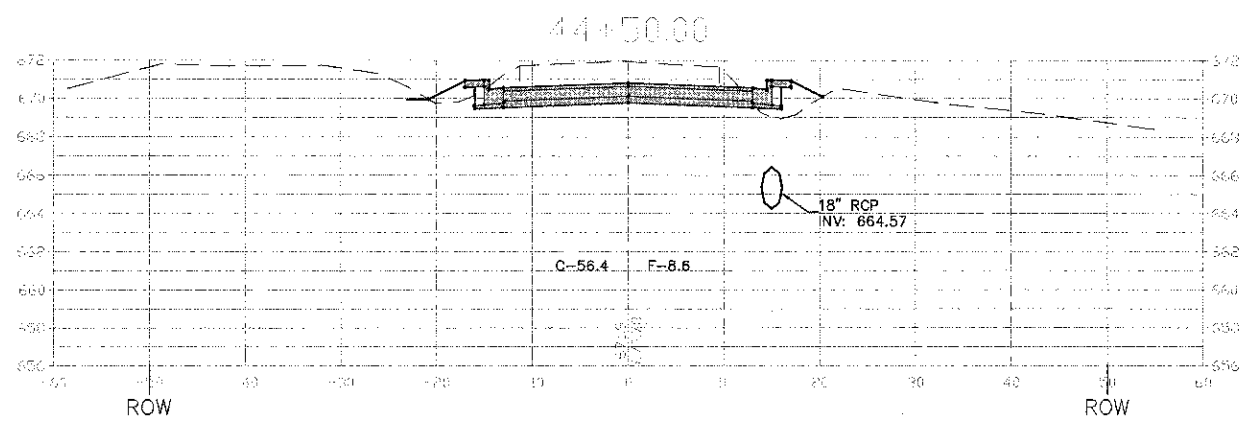
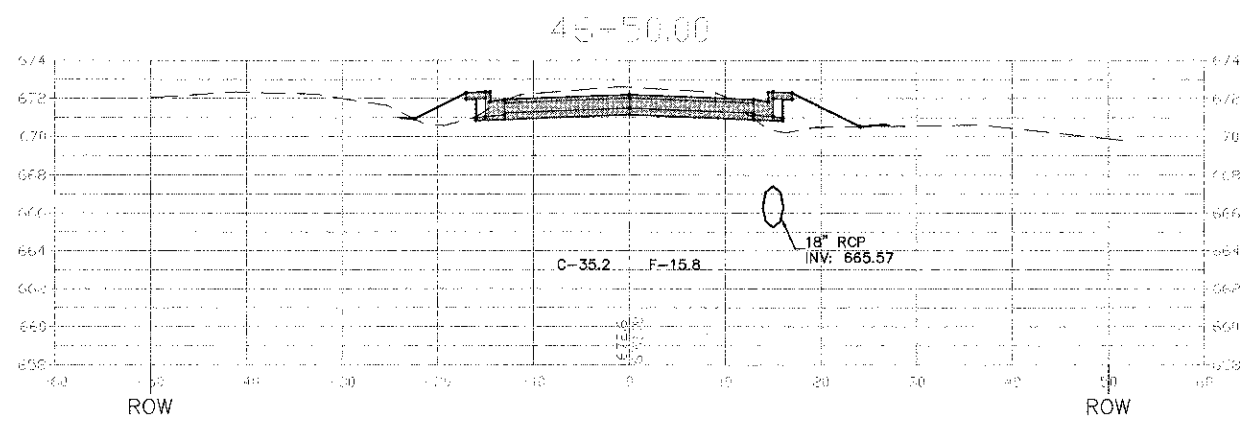
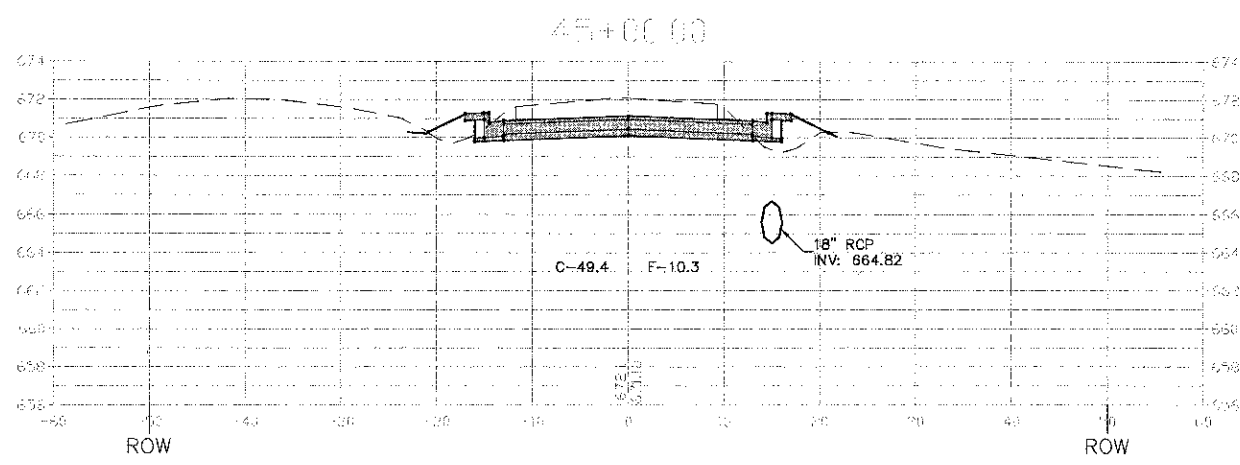
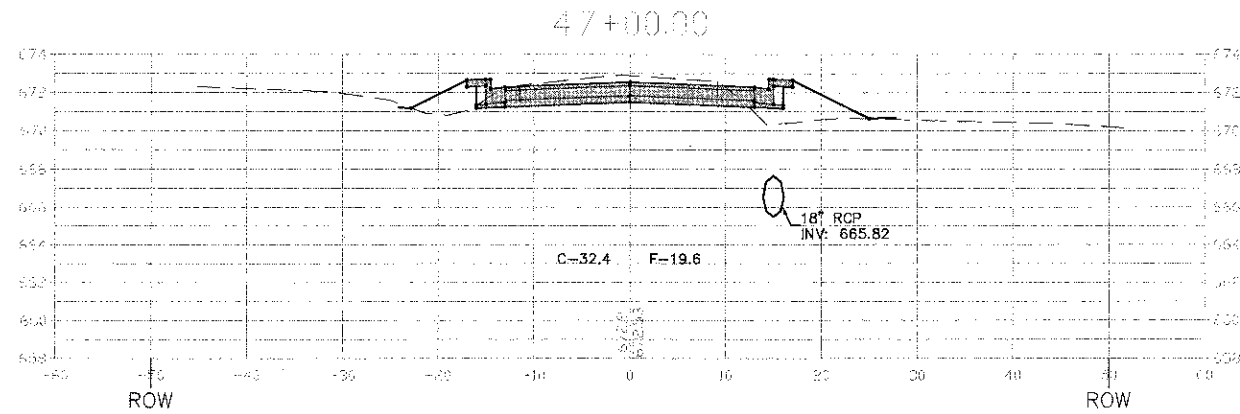
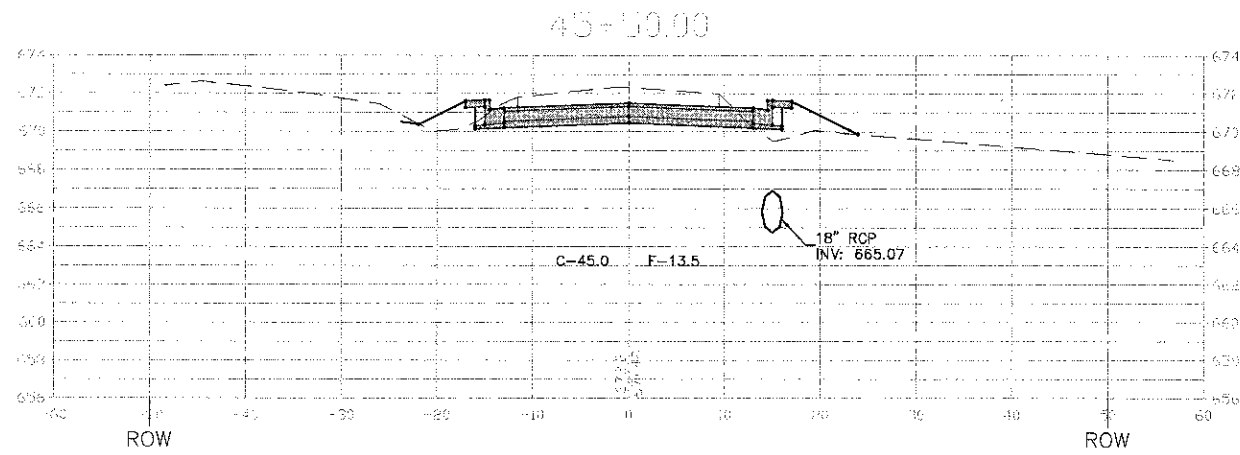
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PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -			CONTRACT NO. 63747				
PLOT DATE = Sep 05, 2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 1"=10' H 1"=5' V SHEET NO. 5 OF 9 SHEETS STA. 38+50 TO STA. 41+00						

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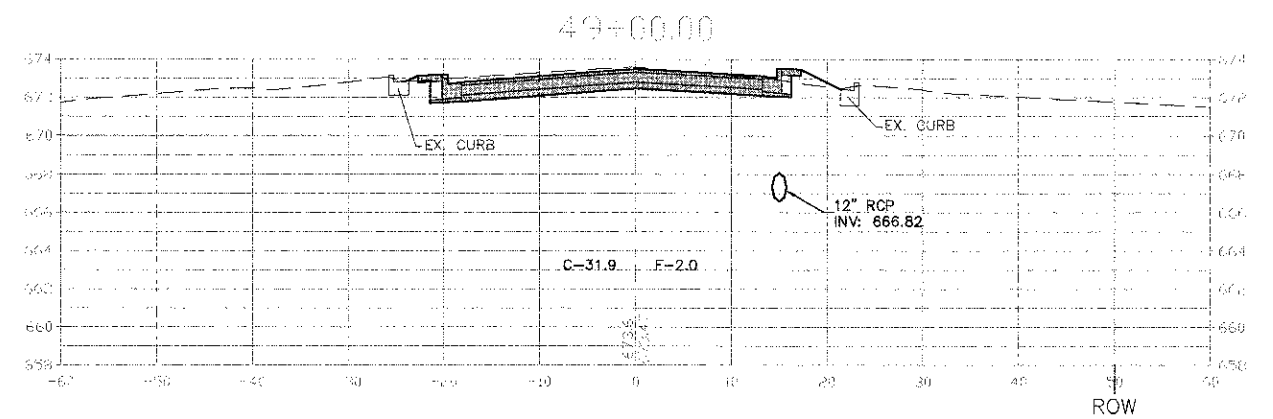
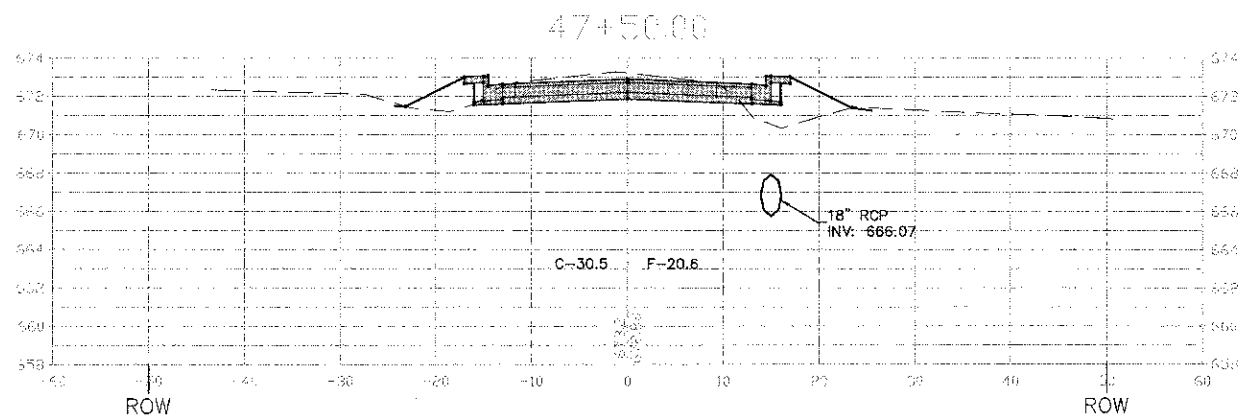
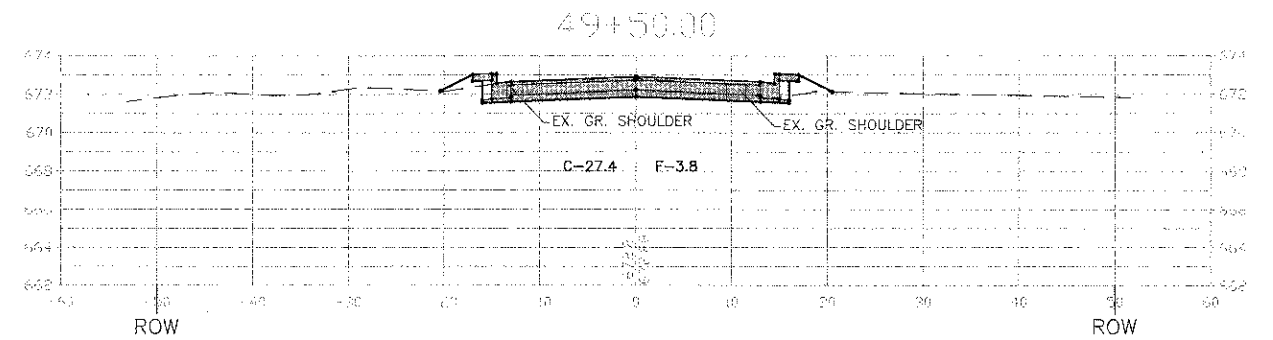
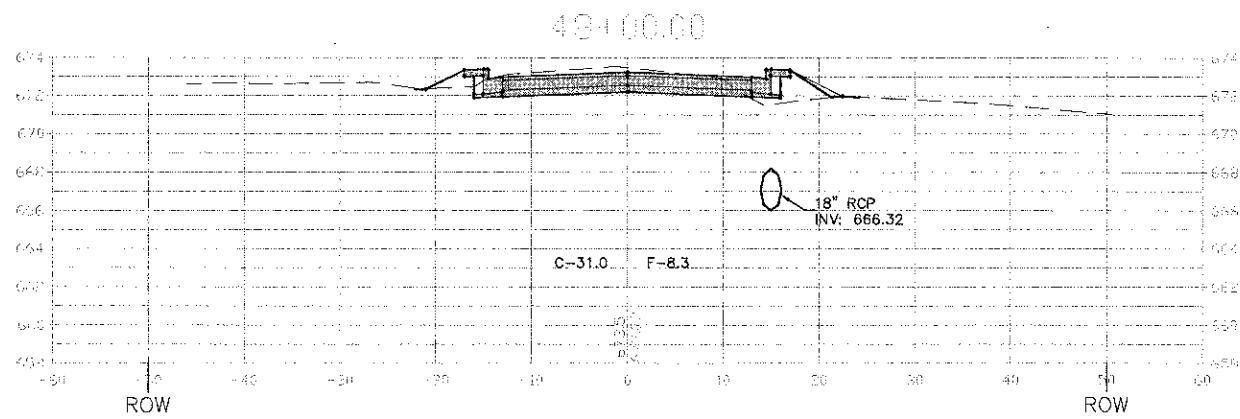
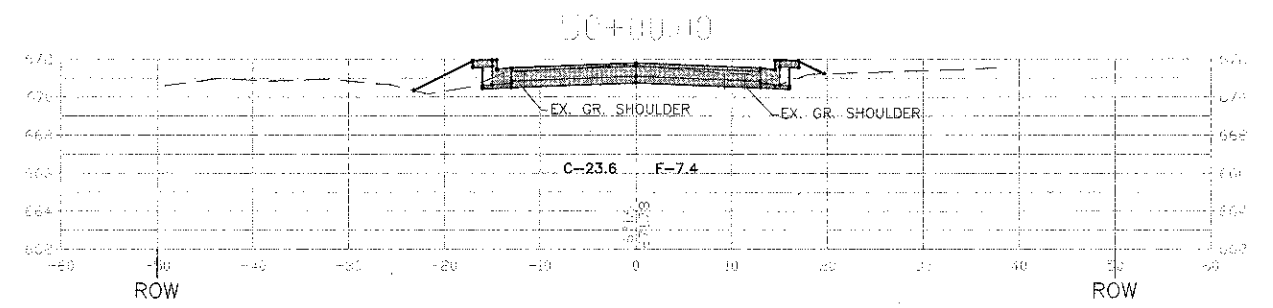
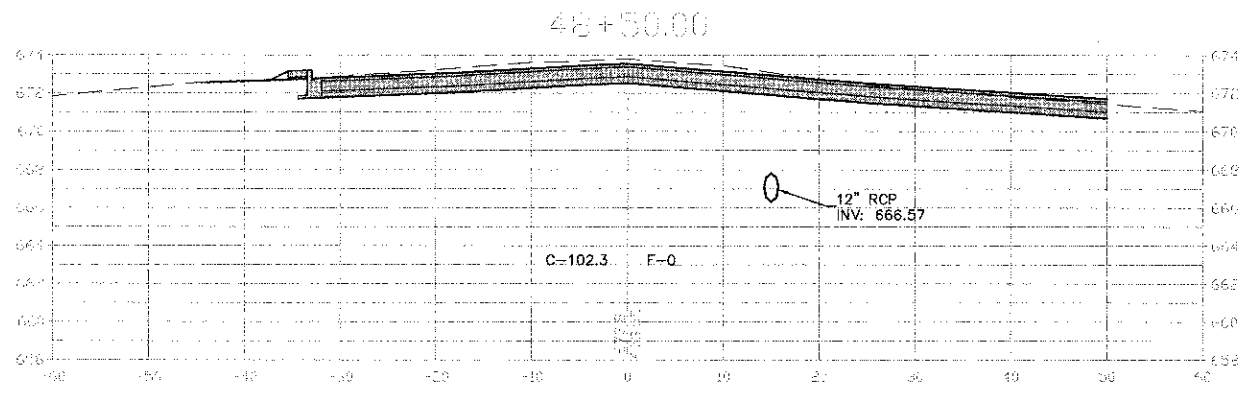
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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 PLOT DATE: Sep 05, 2012
 PLOT SCALE: 1"=10' H 1"=5' V
 SHEET NO. 6 OF 9 SHEETS STA. 41+50 TO STA. 44+00



FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	76TH AVENUE 131ST STREET TO 127TH STREET CROSS SECTIONS STA. 44+50 TO STA. 47+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Sep 05, 2012	DATE -	CHECKED -	REVISED -			SCALE: 1"=10' H 1"=5' V SHEET NO. 7 OF 9 SHEETS STA. 44+50 TO STA. 47+00		CONTRACT NO. 63747			
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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FILE NAME *	USER NAME * \$USER\$	DESIGNED -	REVISED -
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PLOT DATE * Sep 05, 2012		DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
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DATE -	REVISED -

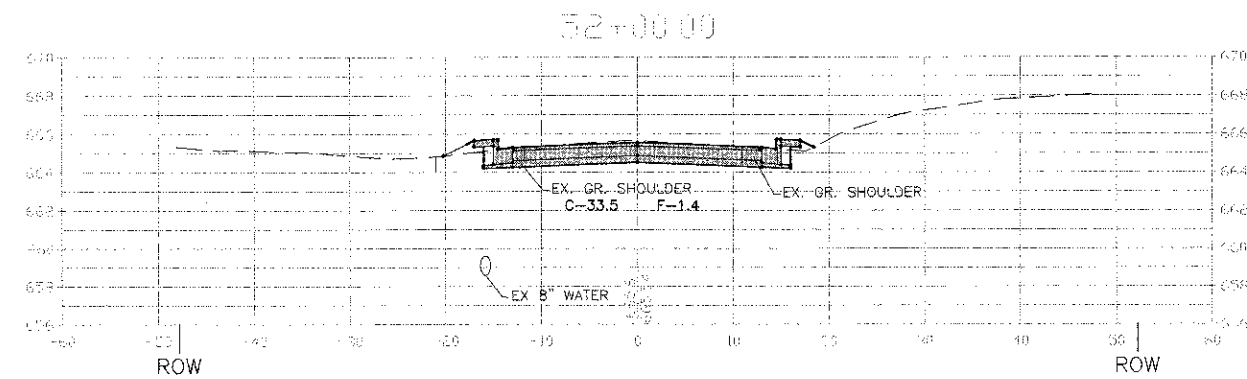
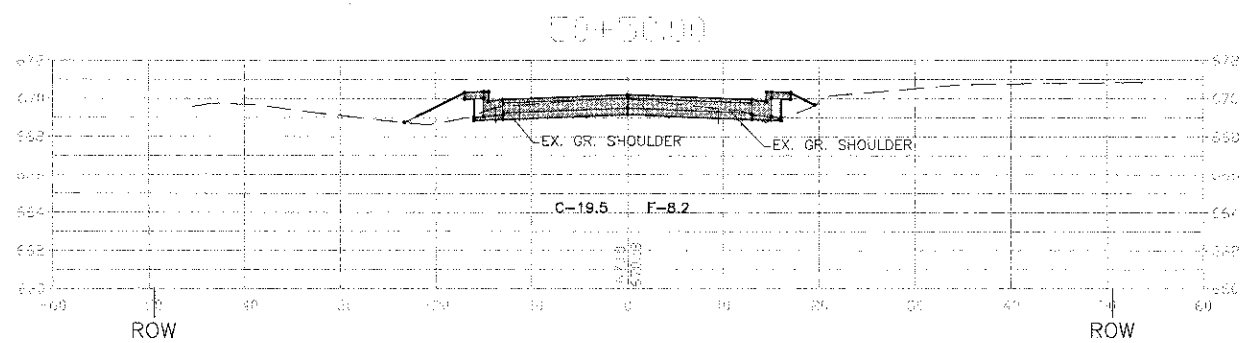
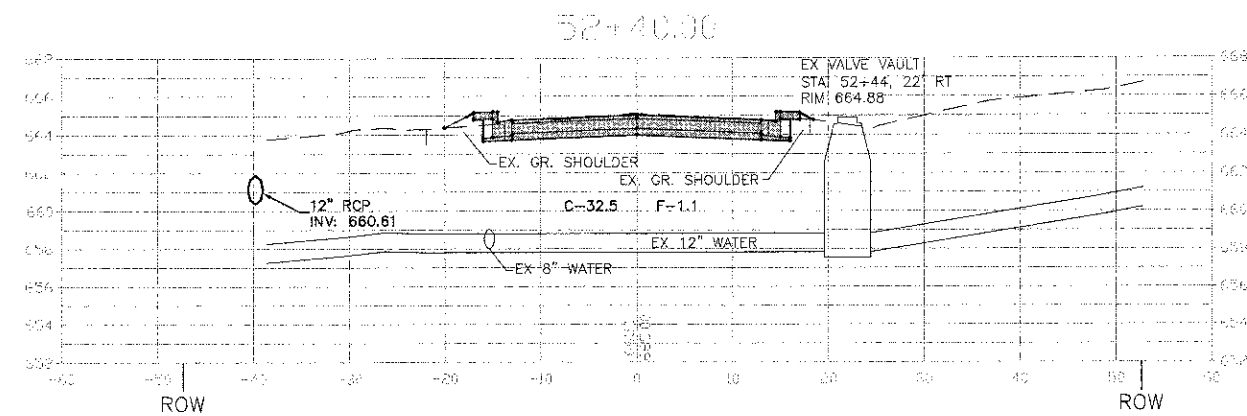
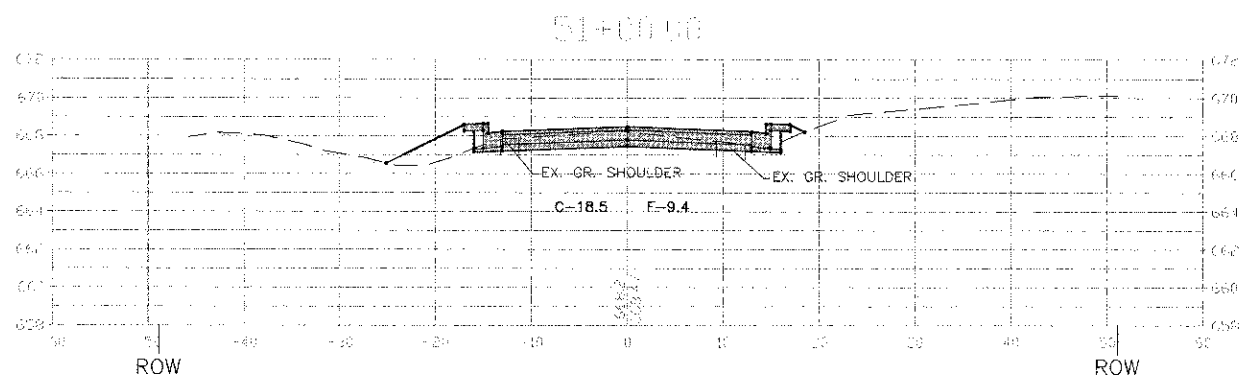
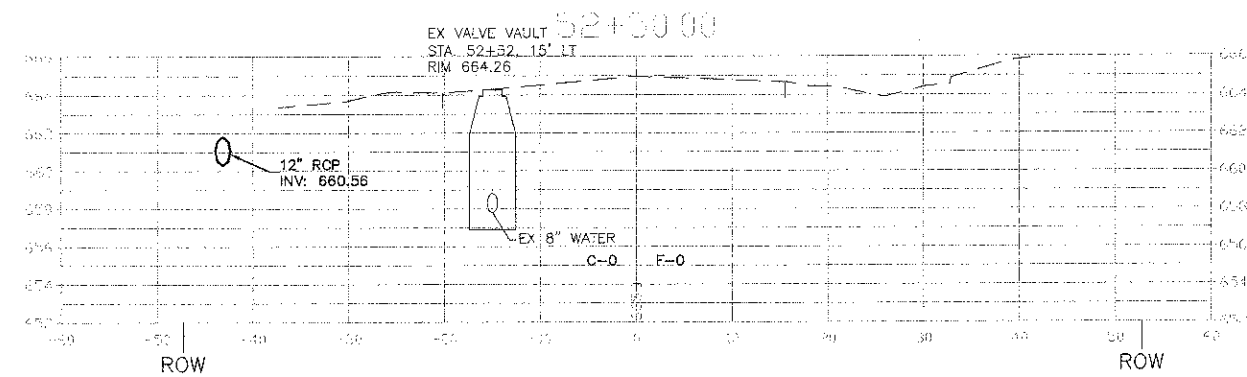
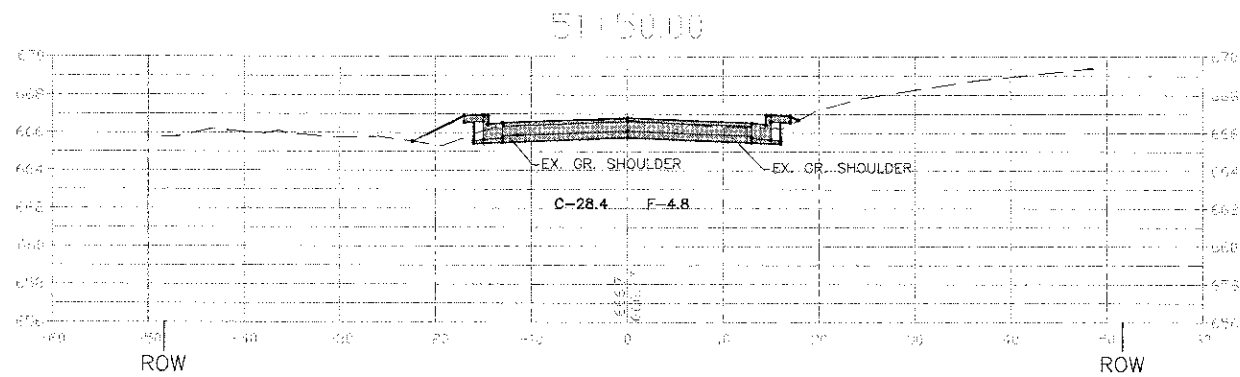
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

76TH AVENUE 131ST STREET TO 127TH STREET
CROSS SECTIONS STA. 47+50 TO STA. 50+00

SCALE: 1"=10' H 1"=5' V SHEET NO. 8 OF 9 SHEETS STA. 47+50 TO STA. 50+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3791	08-00043-00-FP	COOK	27	26
CONTRACT NO. 63747			ILLINOIS FED. AD PROJECT	

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PLOT DATE = Sep 05, 2012

USER NAME = \$USER\$

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

76TH AVENUE 131ST STREET TO 127TH STREET
CROSS SECTIONS STA. 50+50 TO STA. 52+50

SCALE: 1"=10' H 1"=5' V SHEET NO. 9 OF 9 SHEETS STA. 50+50 TO STA. 52+50

F.A.P. RT# 3791	SECTION 08-00043-00-FP	COUNTY COOK	TOTAL SHEETS 27	SHEET NO. 27
CONTRACT NO. 63747			ILLINOIS FED. AID PROJECT	