

HYDRAULIC REPORT

**ELGIN O'HARE – WEST BYPASS
JOB NUMBER P-91-443-06**

**ELGIN O'HARE EXPRESSWAY
THORNDALE AVENUE
I-290
ELGIN O'HARE/ I-290 INTERCHANGE RAMPS
ILLINOIS ROUTE 53
OVER
DEVON AVENUE TRIBUTARY TO SALT CREEK
DUPAGE COUNTY, ILLINOIS
VOLUME 2**

Prepared For:

Illinois Department of Transportation
201 West Center Court
Schaumburg, IL 60196-1096

Prepared By:

Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018

CBBEL Project No. 07-0404

October 2012



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road, Suite 600

Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520

SECTION 5

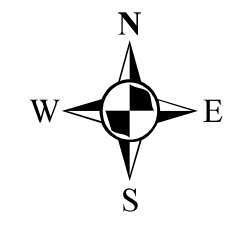
**STREAMBED PLAN AND PROFILE
ROADWAY PLAN AND PROFILE**



NOTE:
 PROPOSED CULVERT SIZES REFLECT
 EFFECTIVE FLOW AREA AND DO
 NOT INCLUDE THE BURIED DEPTH.
 ACTUAL CULVERT DIMENSIONS WITH
 BURIED DEPTHS ARE SHOWN IN THE
 PROPOSED DRAINAGE PLAN. ACTUAL
 CULVERT DIMENSIONS TO BE FINISHED
 IN THE DESIGN PHASE BASED ON
 STANDARD MANUFACTURED CULVERTS.

1 inch = 200 feet

CB Christopher B. Burke Engineering, Ltd.
 9575 West Higgins Road, Suite 600
 Rosemont, IL 60018
 (847) 823-0500 / FAX (847) 823-0520



CLIENT	IDOT
TITLE	Devon Avenue Tributary Proposed Plan

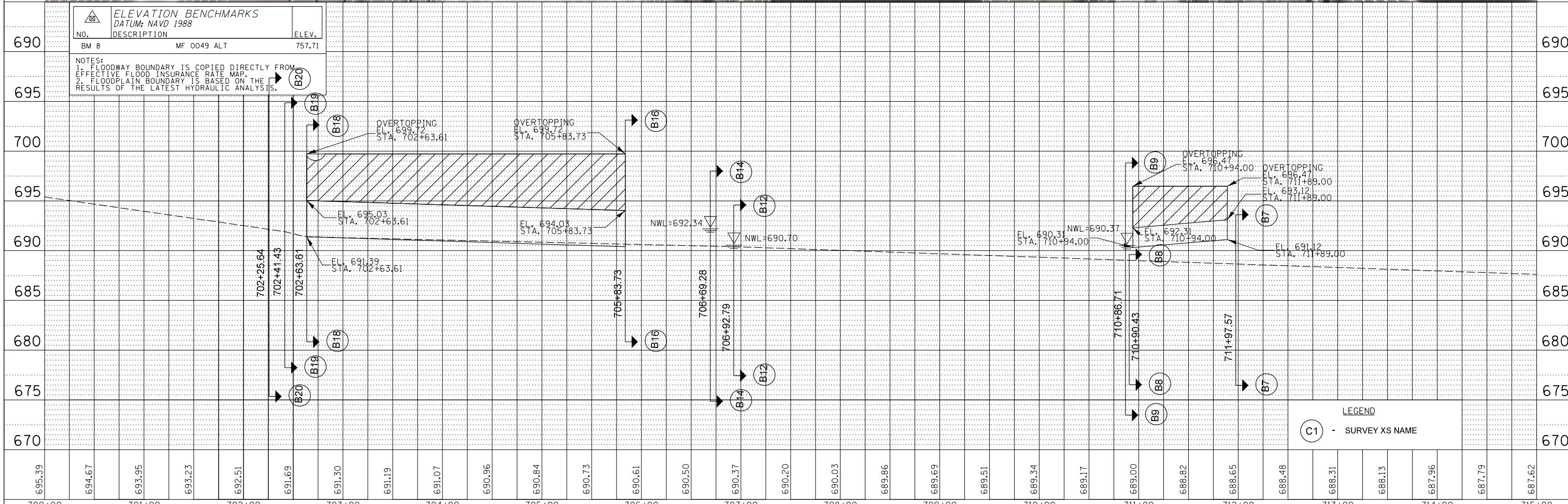
JOB#	07-0404.0001B	DSGN.	CHKD.
		ETA	CW
		DATE	03-30-12
			Exhibit 5.1

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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	CADD FILE NAME	
	NO.	

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



MATCH LINE STA. 715+00



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DATUM: NAVD 1988		
NO.	DESCRIPTION	ELEV.
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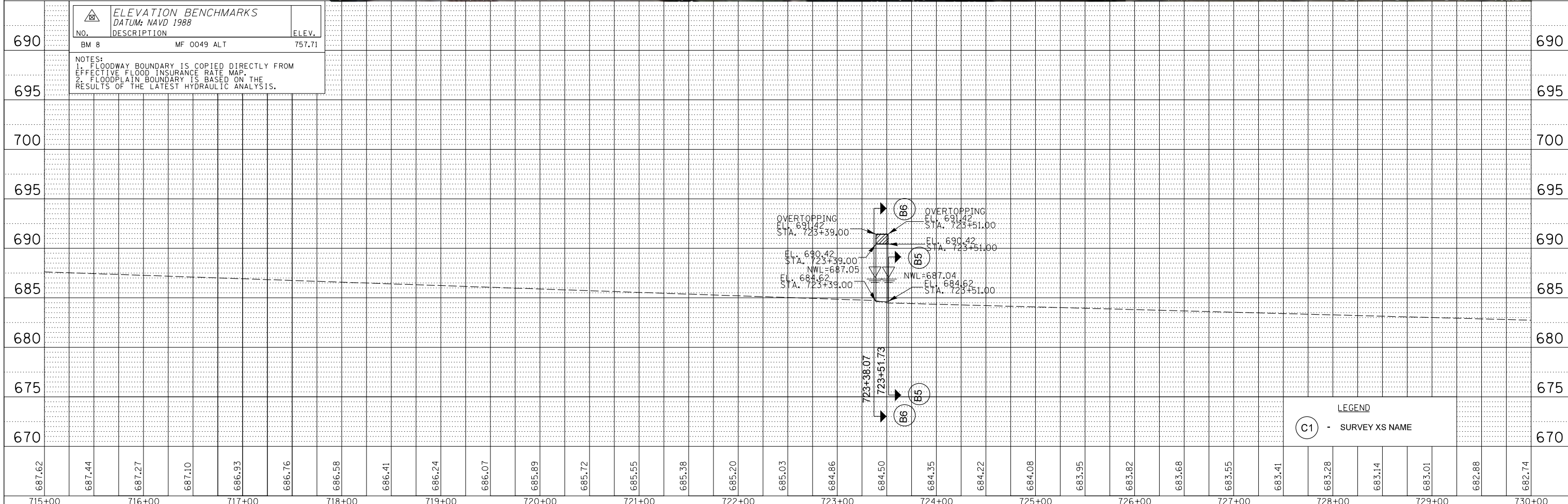
NOTES:
 1. FLOODWAY BOUNDARY IS COPIED DIRECTLY FROM EFFECTIVE FLOOD INSURANCE RATE MAP.
 2. FLOODPLAIN BOUNDARY IS BASED ON THE RESULTS OF THE LATEST HYDRAULIC ANALYSIS.

LEGEND
 (C1) - SURVEY XS NAME

FILE NAME =	USER NAME = eanderson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN O'HARE WEST BYPASS DEVON AVENUE TRIBUTARY EXISTING CHANNEL PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\361180 - Elgin O'Hare - West Bypass\TIER_2\DWG\CAD\Sheets\DIE0WB-02-sht-plnprf-001.dwg	DRAWN	REVISED -	REVISED -			CONTRACT NO.					
PLOT SCALE = 100'	CHECKED -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT DATE = 10/5/2012	DATE -	REVISED -	REVISED -								

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CHECKED		
	ALIGNMENT		
	CAD FILE NAME		

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



ELEVATION BENCHMARKS		
DATUM: NAVD 1988		
NO.	DESCRIPTION	ELEV.
BM 8	MF 0049 ALT	757.71

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LEGEND
 (C1) - SURVEY XS NAME

687.62	687.44	687.27	687.10	686.93	686.76	686.58	686.41	686.24	686.07	685.89	685.72	685.55	685.38	685.20	685.03	684.86	684.50	684.35	684.22	684.08	683.95	683.82	683.68	683.55	683.41	683.28	683.14	683.01	682.88	682.74
715+00	716+00	717+00	718+00	719+00	720+00	721+00	722+00	723+00	724+00	725+00	726+00	727+00	728+00	729+00	730+00															
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		PLOT SCALE = 100'		CHECKED -		REVISED -																								
		PLOT DATE = 10/5/2012		DATE -		REVISED -																								

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

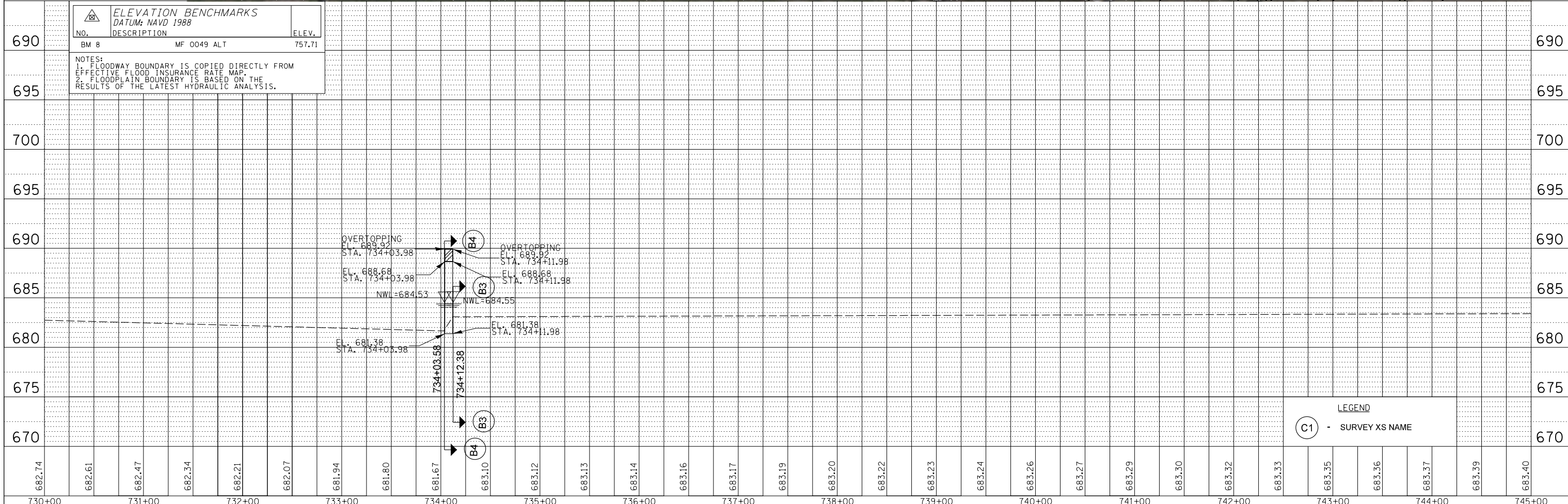
ELGIN O'HARE WEST BYPASS
 DEVON AVENUE TRIBUTARY
 EXISTING CHANNEL PLAN AND PROFILE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
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	CAD FILE NAME	
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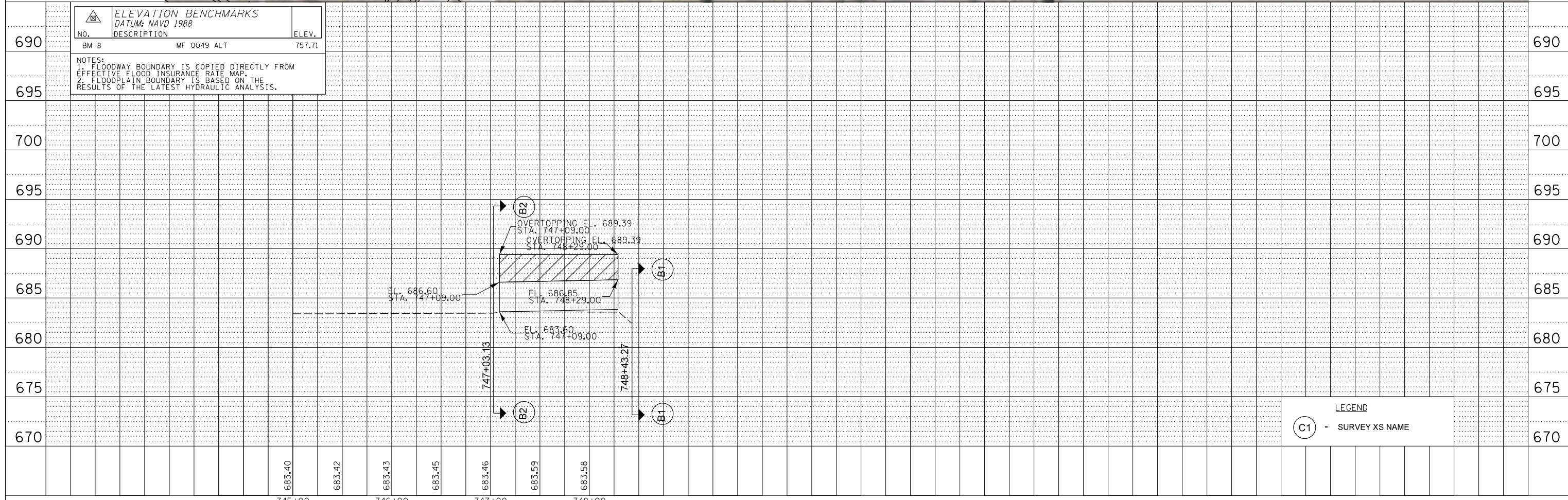
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	



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730+00	731+00	732+00	733+00	734+00	735+00	736+00	737+00	738+00	739+00	740+00	741+00	742+00	743+00	744+00	745+00															
FILE NAME =		USER NAME = eanderson		DESIGNED -		REVISED -																								
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		PLOT SCALE = 100'		CHECKED -		REVISED -																								
		PLOT DATE = 10/5/2012		DATE -		REVISED -																								
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION											ELGIN O'HARE WEST BYPASS DEVON AVENUE TRIBUTARY EXISTING CHANNEL PLAN AND PROFILE																			
SCALE:											SHEET NO. OF SHEETS STA. TO STA.																			
F.A. RTE.											SECTION COUNTY TOTAL SHEETS SHEET NO.																			
											CONTRACT NO.																			
											ILLINOIS FED. AID PROJECT																			

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
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ELEVATION BENCHMARKS		
DATUM: NAVD 1988		
NO.	DESCRIPTION	ELEV.
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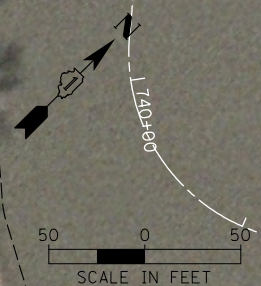
NOTES:
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LEGEND
 (C1) - SURVEY XS NAME

FILE NAME = Y:\361180 - Elgin O'Hare - West Bypass\TIER	USER NAME = eanderson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN O'HARE WEST BYPASS DEVON AVENUE TRIBUTARY EXISTING CHANNEL PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -									
		CHECKED -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
		DATE - 10/5/2012	REVISED -						CONTRACT NO.		ILLINOIS FED. AID PROJECT	

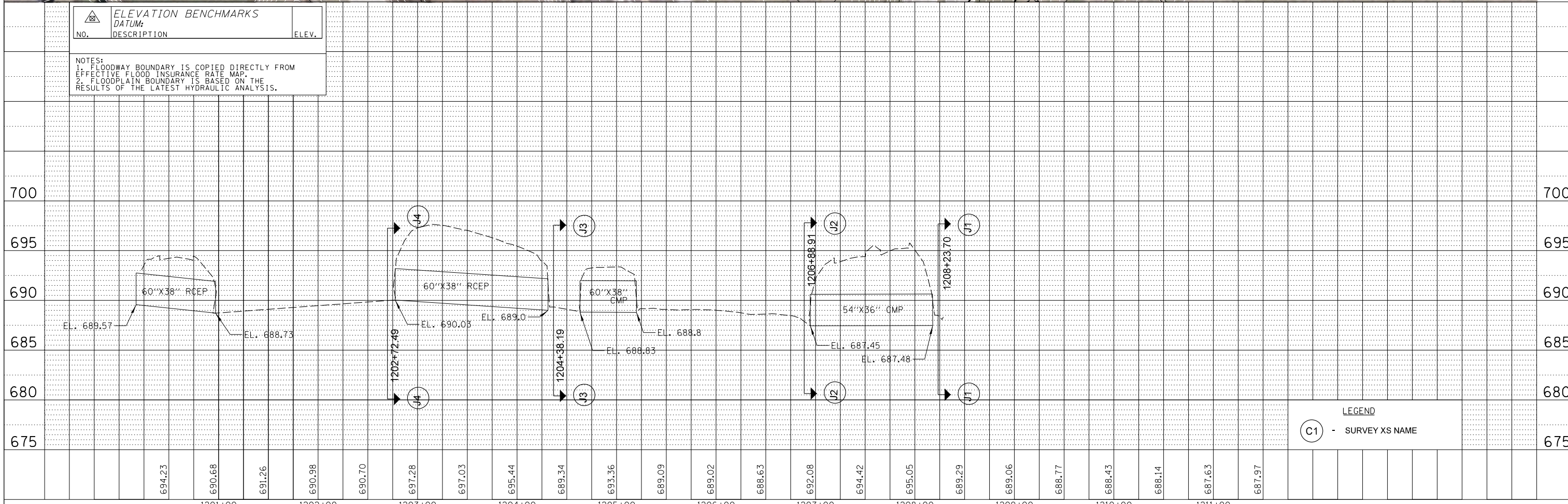
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE CHECKED	
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DATUM:		
NO.	DESCRIPTION	ELEV.

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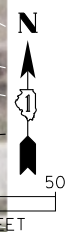


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 (C1) - SURVEY XS NAME

FILE NAME =	USER NAME = eanderson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN O'HARE WEST BYPASS DEVON AVENUE TRIBUTARY EXISTING CHANNEL PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT DATE = 10/5/2012	DATE -	REVISED -									

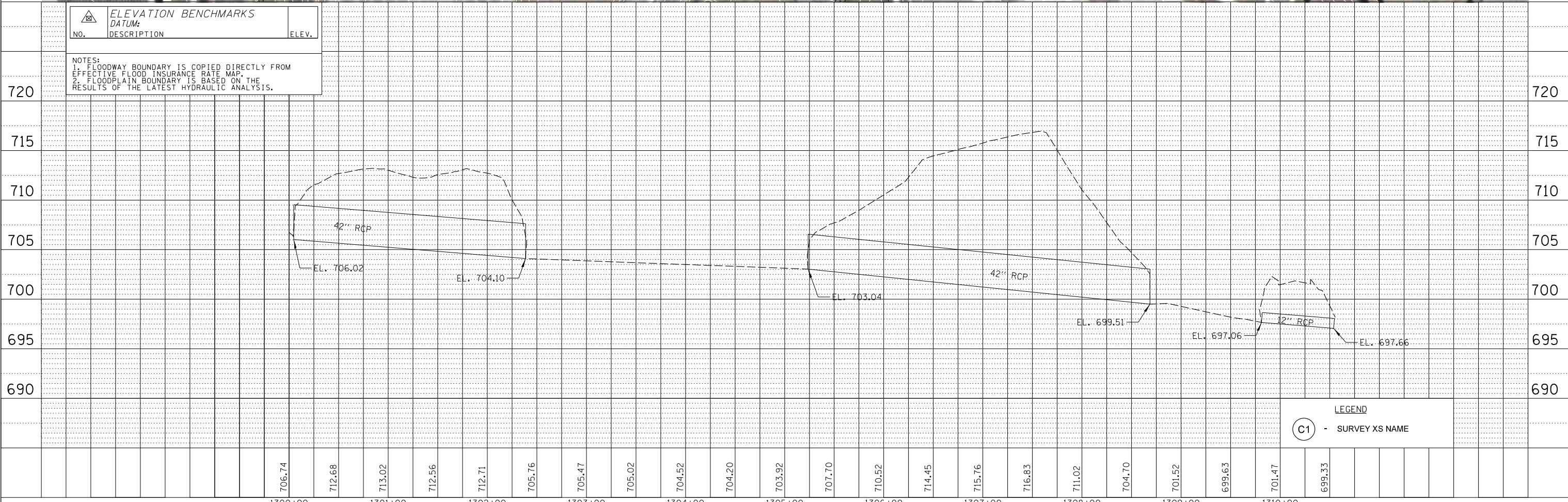
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	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
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	CADD FILE NAME		



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PLOT SCALE = 100'	CHECKED -	REVISED -	REVISED -			CONTRACT NO.					
PLOT DATE = 10/5/2012	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

SEE SHEET PDEE4

DETENTION SITE: D6-E
AVAILABLE DETENTION:
15.63 AC-FT
HWL = 697
BOTTOM = 693

I-290 RAMP G5
OVER DEVON AVE TRIB
D.A. = 0.4 SQ MI

EDH EXPY W.B. OVER
DEVON AVE TRIB
D.A. = 0.35 SQ MI

EDH EXPY EB OVER
DEVON AVE TRIB
D.A. = 0.35 SQ MI

SEE "ELGIN O'HARE EXPRESSWAY (EAST)
OVER DEVON AVENUE TRIBUTARY TO SALT CREEK"
HYDRAULIC REPORT

DETENTION SITE: D6-S
AVAILABLE DETENTION:
9.54 AC-FT
HWL = 704
BOTTOM = 701
SEE SHEET PDEE3

MATCH LINE SEE SHEET P20

MATCH LINE SEE SHEET P22

12:37:11 PM

Y:\36880 - Elgin O'Hare - West Bypass\TIER_1\DWG\CAD\Modis_Geometric_FullBuild\sheets\DEWB-sh1-pr-dr-alm-EOP2L_FullBuild.dgn

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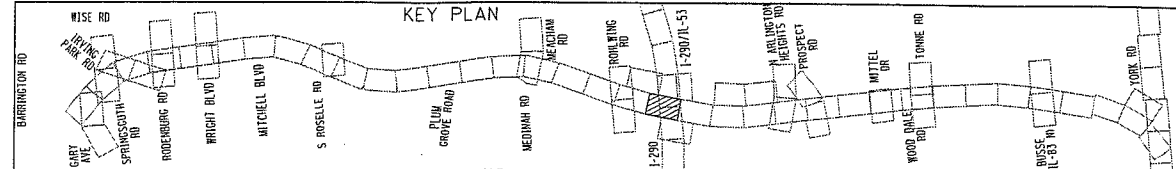
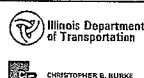
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	DITCH SUMMIT	---	---
RIGHT OF WAY LINE	---	---	CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX	OUTLET	---	---
COUNTY LINE	---	---	HEADWALL	---	---	SHEET FLOW	---	---
DRAINAGE DIVIDE	---	---	CATCH BASIN	---	---	DITCH CHECK	---	---
HYDROLOGIC ATLAS	---	---	INLET/SCUPPER	---	---			
TEMPORARY EASEMENT	TTTTTTTT	TTTTTTTT	MANHOLE	---	---			
PERMANENT EASEMENT	TTTTTTTT	TTTTTTTT	INVERT	(XXX.XX)	XXX.XX			
STORM SEWER REMOVAL	---	---	STORM SEWER	---	---			

DNOTE
DNOTE-A
DNOTE-E1
DNOTE-E2

FILE NAME =	USER NAME = eanderson	DESIGNED MA	REVISED -
DEWB-sh1-pr-dr-alm-EOP2L_FullBuild.dgn		DRAWN MYG	REVISED -
		CHECKED CW	REVISED -
		DATE -	REVISED -

DRAFT

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.



PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DUPAGE	164	EOP21
		CONTRACT NO.		

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

ILLINOIS FED. AID PROJECT

13:17:43 PM

Y:\38880 - Elgin O'Hare - West Bypass\TER_1\DWG\CAD Models Geometric Full Build\sheets\01EOP22-FullBuild.dgn



MATCH LINE SEE SHEETOP21

MATCH LINE SEE SHEETOP23

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	DITCH	---	---
RIGHT OF WAY LINE	---	---	DITCH SUMMIT	---	---	DITCH SUMMIT	---	---
COUNTY LINE	---	---	CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX	CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
DRAINAGE DIVIDE	---	---	HEADWALL	---	---	HEADWALL	---	---
HYDROLOGIC ATLAS	---	---	CATCH BASIN	---	---	CATCH BASIN	---	---
TEMPORARY EASEMENT	---	---	INLET SCUMPER	---	---	INLET SCUMPER	---	---
PERMANENT EASEMENT	---	---	MANHOLE	---	---	MANHOLE	---	---
STORM SEWER REMOVAL	---	---	INVERT	(XXX.XX)	(XXX.XX)	INVERT	(XXX.XX)	(XXX.XX)
			STORM SEWER	---	---	STORM SEWER	---	---

SEE SHEETOP38

NOTE
 DNOTE-E1
 DNOTE-E2

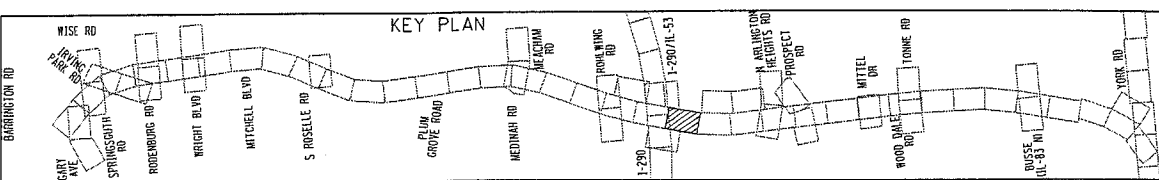
DRAFT

ELGIN O'HARE WEST BYPASS

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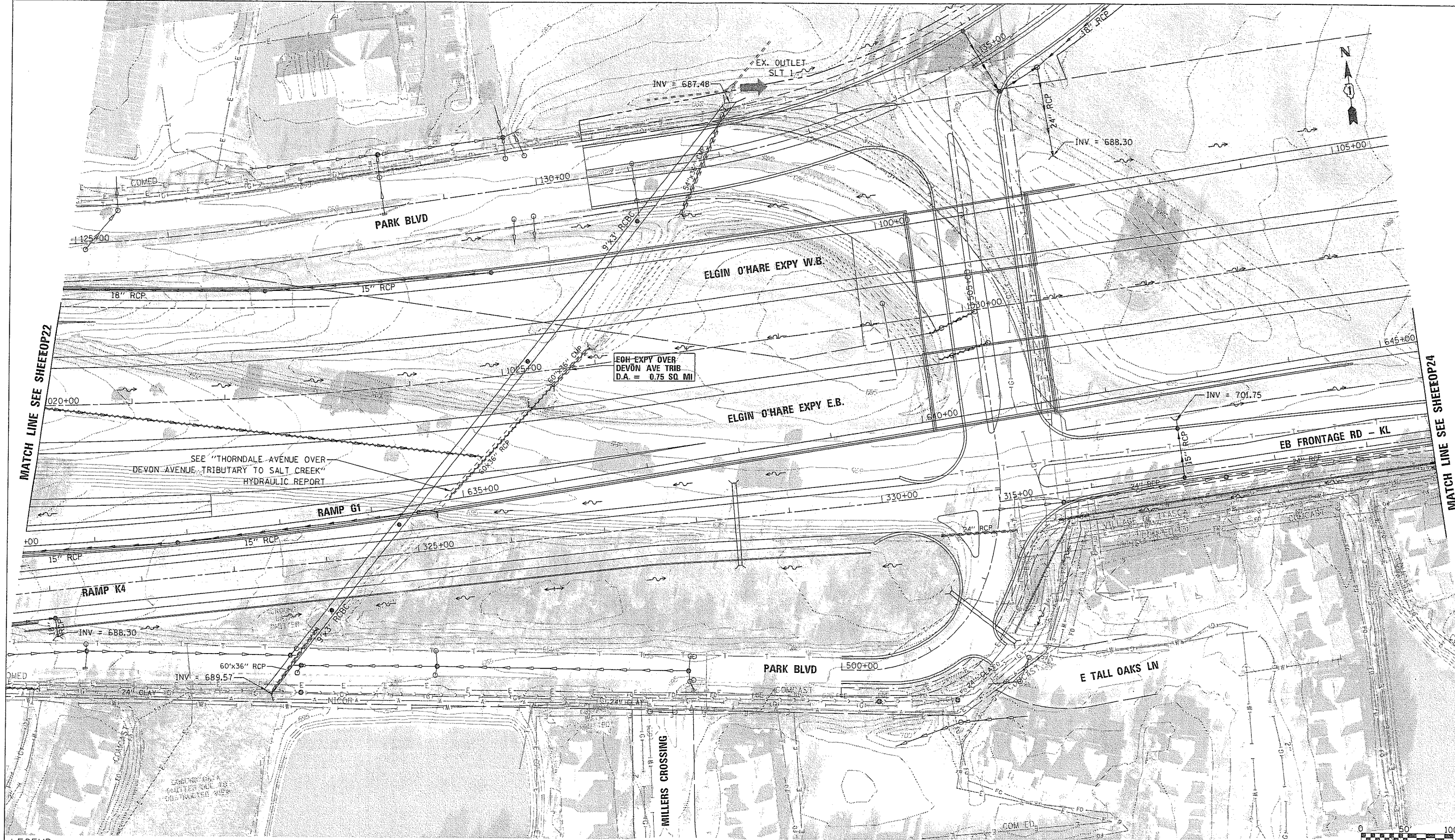
Illinois Department of Transportation

CHRYSTOPHER R. BURKE



PROPOSED DRAINAGE PLAN		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SALT CREEK WATERSHED				COOK, DuPAGE	164	EOP22
ELGIN O'HARE EXPRESSWAY				CONTRACT NO.		
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TER-TWO\HYDRO\Models\Comcast\FullBuild\sh-t-pr-drain-EOP23_FullBuild.dgn 12/30/12 PM



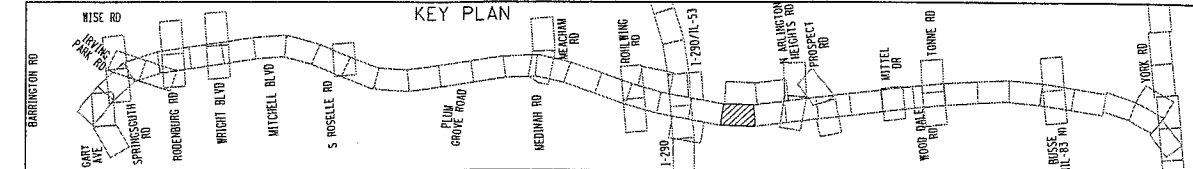
LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---
RIGHT OF WAY LINE	---	---
COUNTY LINE	---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)	---	---
TEMPORARY EASEMENT	---	---
PERMANENT EASEMENT	---	---
STORM SEWER REMOVAL	---	---

EXISTING	PROPOSED
SWALE	---
DITCH	---
DITCH SUMMIT	---
CULVERT SIZE/TYPE 2 X 2 BOX	---
HEADWALL	---
CATCH BASIN	---
INLET/SCUPPER	---
MANHOLE	---
INVERT	---
STORM SEWER	---

EXISTING	PROPOSED
OVERFLOW	---
OUTLET	---
SHEET FLOW	---
DITCH CHECK	---

DNOTE
 DNOTE-E1
 DNOTE-E2



FILE NAME =	USER NAME = anderson	DESIGNED MA	REVISED -
DIEOWB-sh-t-pr-drain-EOP23_FullBuild.dgn		DRAWN MYG	REVISED -
		CHECKED CW	REVISED -
		DATE -	REVISED -

DRAFT

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PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY
 SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DUPAGE	164	EOP23
		CONTRACT NO.		

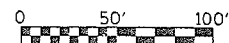
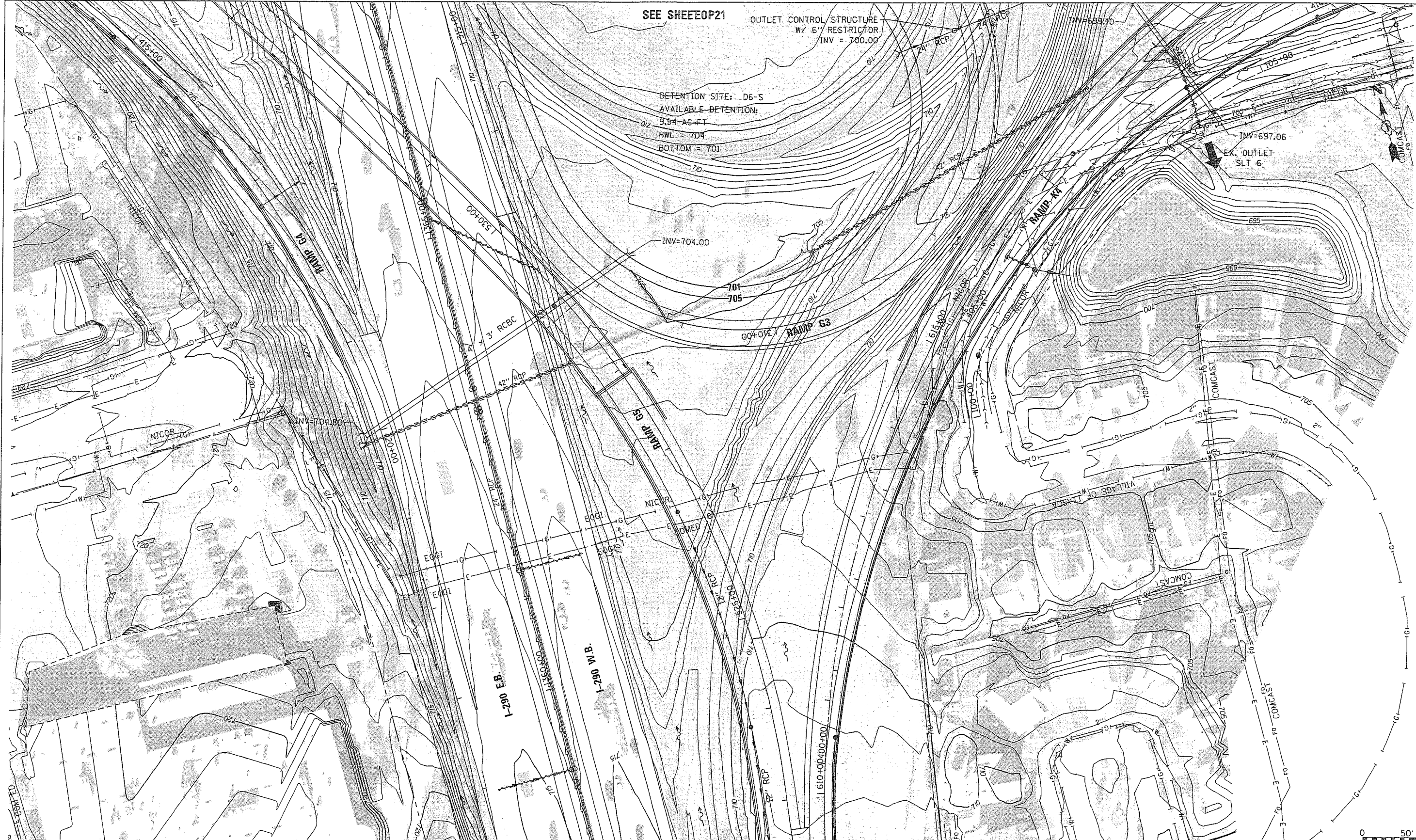
ILLINOIS FED. AID PROJECT

SEE SHEET EOP21

OUTLET CONTROL STRUCTURE
W/ 6" RESTRICTOR
INV = 700.00

RETENTION SITE: D6-S
AVAILABLE DETENTION:
9.54 AC-FT
HWL = 704
BOTTOM = 701

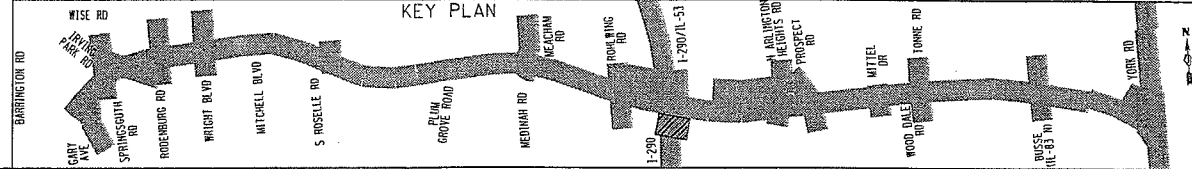
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EX. OUTLET
SLT 6



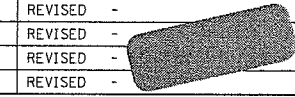
LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	---	---	---	---
RIGHT OF WAY LINE	---	---	---	---	---	---
COUNTY LINE	---	---	---	---	---	---
DRAINAGE DIVIDE	---	---	---	---	---	---
HYDROLOGIC ATLAS	---	---	---	---	---	---
TEMPORARY EASEMENT	---	---	---	---	---	---
PERMANENT EASEMENT	---	---	---	---	---	---
STORM SEWER REMOVAL	---	---	---	---	---	---
SWALE	---	---	---	---	---	---
DITCH	---	---	---	---	---	---
DITCH SUMMIT	---	---	---	---	---	---
CULVERT SIZE/TYP	2 X 2 BOX	2 X 2 BOX	---	---	---	---
HEADWALL	---	---	---	---	---	---
CATCH BASIN	---	---	---	---	---	---
INLET/SCUPPER	---	---	---	---	---	---
MANHOLE	---	---	---	---	---	---
INVERT	(XXX.XX)	XXX.XX	---	---	---	---
STORM SEWER	---	---	---	---	---	---
OVERFLOW	---	---	---	---	---	---
OUTLET	---	---	---	---	---	---
SHEET FLOW	---	---	---	---	---	---
DITCH CHECK	---	---	---	---	---	---

DNOTE
DNOTE-E1
DNOTE-E2



FILE NAME =	USER NAME = eanderson	DESIGNED MA	REVISED -
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		CHECKED CW	REVISED -
		DATE -	REVISED -



ELGIN O'HARE WEST BYPASS
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PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SCALE: 1"=50'

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
		COOK, DuPAGE	18 TOTAL	EOP38
			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

Y:\31810 - Elgin O'Hare - West Bypass\1187-TWO\1187-CAD\Models\Geometric_FullBuild\sheets\1187\DWG-sht-pr-drain-EOP36_FullBuild.dgn 9/27/07 AM

DNOTE
 DNOTE-B
 DNOTE-E1
 DNOTE-E2



SEE SHEET RWG2

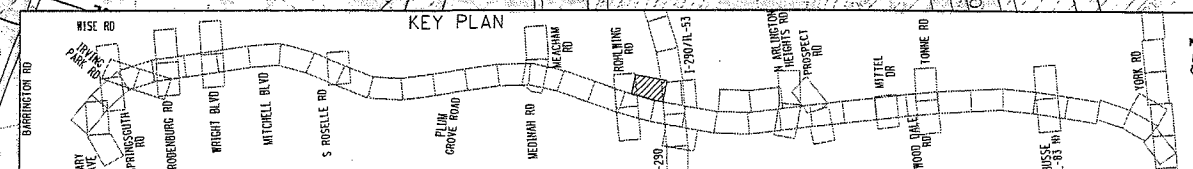
SEE SHEET PEE4

LEGEND:

BOUNDARY LINES/SYMBOLS AND STATIONING	EXISTING	PROPOSED	SWALE	DITCH	DITCH SUMMIT	CULVERT SIZE/TYP	2 X 2 BOX	2 X 2 BOX	OVERFLOW	EXISTING	PROPOSED	OUTLET	SHEET FLOW	DITCH CHECK
REFERENCE LINE/CENTERLINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RIGHT OF WAY LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---
COUNTY LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMPORARY EASEMENT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PERMANENT EASEMENT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STORM SEWER REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SEE SHEET OP20

SEE SHEET OP21



FILE NAME =	USER NAME = eanderson	DESIGNED MA	REVISED -
DIEOWB-sh1-pr-draln-RAMG1_FullBuild.dgn		DRAWN MYG	REVISED -
PLOT SCALE = 100'		CHECKED CW	REVISED -
PLOT DATE = 3/29/2012		DATE -	REVISED -

DRAFT

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**PROPOSED DRAINAGE PLAN
 SALT CREEK WATERSHED
 RAMP G1**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DuPAGE	164	PRAMG1
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

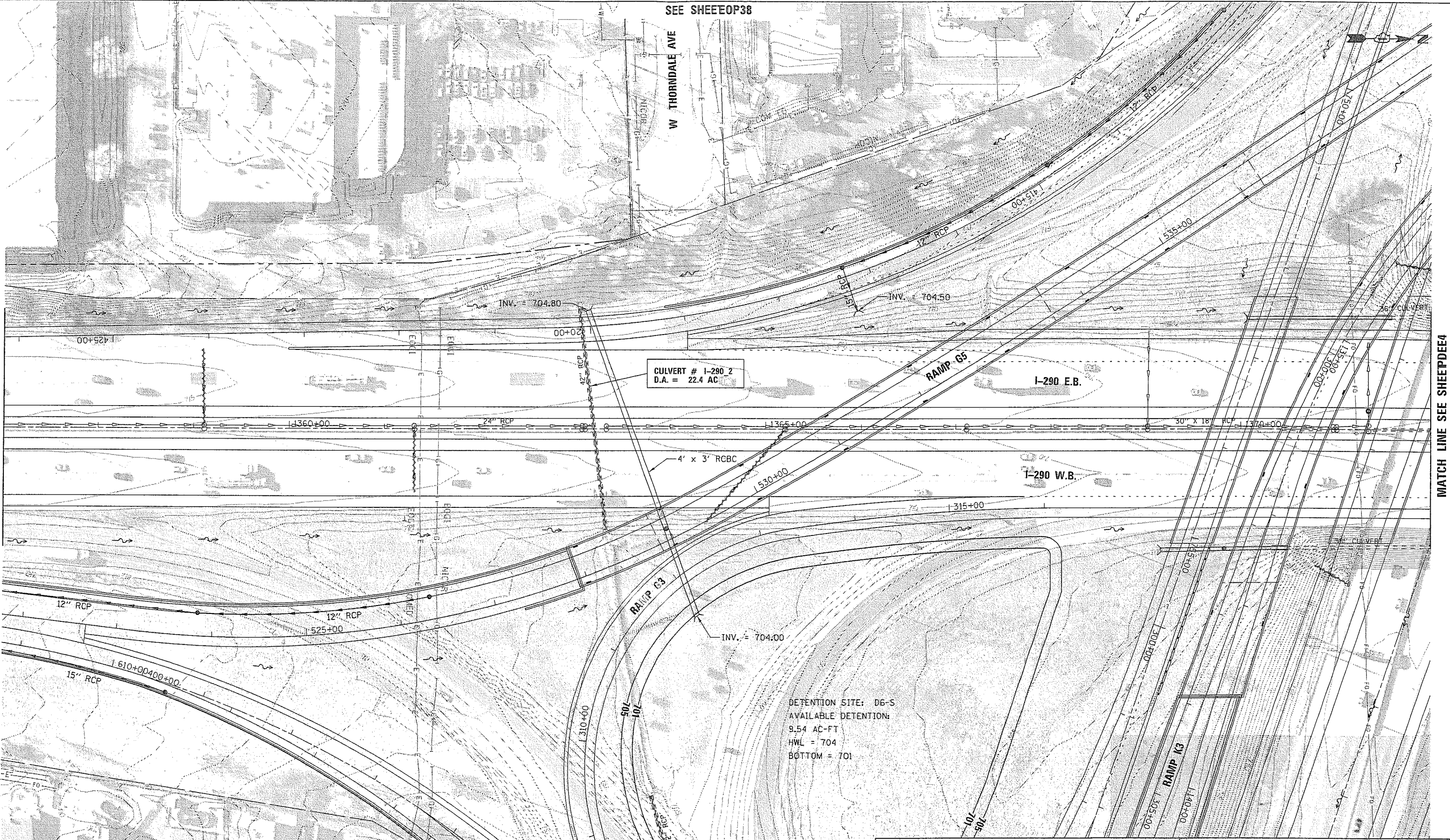
Y:\36180 - Elgin O'Hare - West Bypass\TIER_2\DWG\CAD\Models Geometric FullBuild\sheet\DWG\sh1-pr-draln-RAMG1_FullBuild.dgn 13:50:02 PM

SEE SHEETOP38

W THORNDALE AVE

MATCH LINE SEE SHEETDEE2

MATCH LINE SEE SHEETDEE4



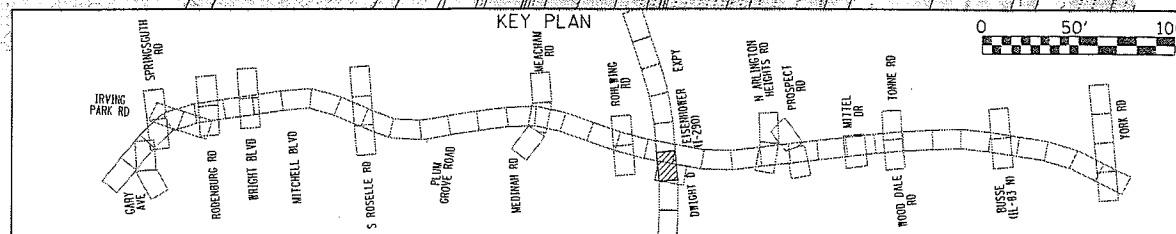
DETENTION SITE: D6-S
 AVAILABLE DETENTION:
 9.54 AC-FT
 HWL = 704
 BOTTOM = 701

SEE SHEETOP38

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	DITCH SUMMIT	---	---
RIGHT OF WAY LINE	---	---	CULVERT SIZE/TYP 2 X 2 BOX	---	---	CATCH BASIN	---	---
COUNTY LINE	---	---	INLET/SCUPPER	---	---	MANHOLE	---	---
DRAINAGE DIVIDE	---	---	INVERT	---	---	STORM SEWER	---	---
HYDROLOGIC ATLAS	---	---						
TEMPORARY EASEMENT	---	---						
PERMANENT EASEMENT	---	---						
STORM SEWER REMOVAL	---	---						

DNOTE
 DNOTE-A
 DNOTE-E1
 DNOTE-E2



FILE NAME = D:\EOWB-sht-pr-drain-DEE3_FulBuild.dgn
 USER NAME = eanderson

DESIGNED MA
 DRAWN MYG
 CHECKED CW
 DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -

DRAFT

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PROPOSED DRAINAGE PLAN
 SALT CREEK WATERSHED
 I-290

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DuPAGE	164	PDEE3
				CONTRACT NO.

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

ILLINOIS FED. AID PROJECT

12/29/14 PM

Y:\38180 - Elgin O'Hare - West Bypass\TER-TWO\WY\CAD\Models Geometric\FulBuild\sheeta\DEE3-sht-pr-drain-DEE3_FulBuild.dgn

SEE SHEEOP21

INV = 692.00



MATCH LINE SEE SHEEPDEE3

MATCH LINE SEE SHEEPDEE5

DETENTION SITE: D6-E
AVAILABLE DETENTION: 15.63 AC-FT
HWL = 697
BOTTOM = 693

DETENTION SITE: D6-NE
AVAILABLE DETENTION: 9.66 AC-FT
HWL = 697
BOTTOM = 691.2

I-290 OVER
DEVON AVE TRIB
D.A. = 0.97 SQ MI

I-290 E.B.

I-290 W.B.

EX. OUTLET
SLT 14

EX. OUTLET
SLT 15

SEE SHEEOP21

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	DITCH SUMMIT	---	---
RIGHT OF WAY LINE	---	---	CULVERT SIZE/TYP	2 X 2 BOX	2 X 2 BOX	CULVERT	---	---
COUNTY LINE	---	---	HEADWALL	---	---	CATCH BASIN	---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)	---	---	INLET/SCUPPER	---	---	MANHOLE	---	---
TEMPORARY EASEMENT	---	---	INVERT	(XXX,XX)	XXX,XX	STORM SEWER	---	---
PERMANENT EASEMENT	---	---						
STORM SEWER REMOVAL	---	---						

- NOTE
 DNOTE-A
 DNOTE-B
 DNOTE-E1
 DNOTE-E2

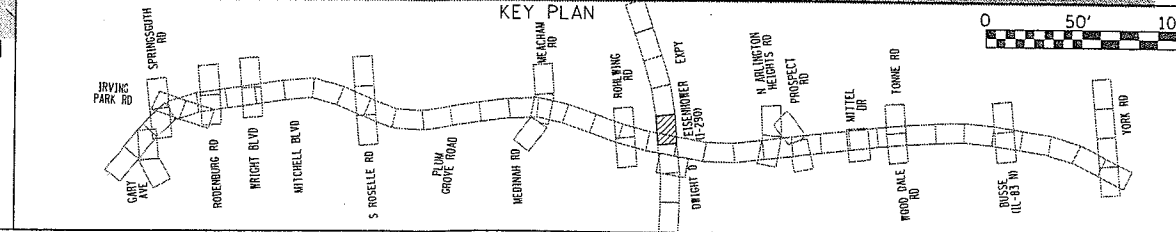
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USER NAME = eanderson
 DESIGNED MA
 DRAWN MYG
 CHECKED CW
 DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -



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PROPOSED DRAINAGE PLAN
 SALT CREEK WATERSHED
 I-290

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DUPAGE	164	PDEE4
CONTRACT NO.				

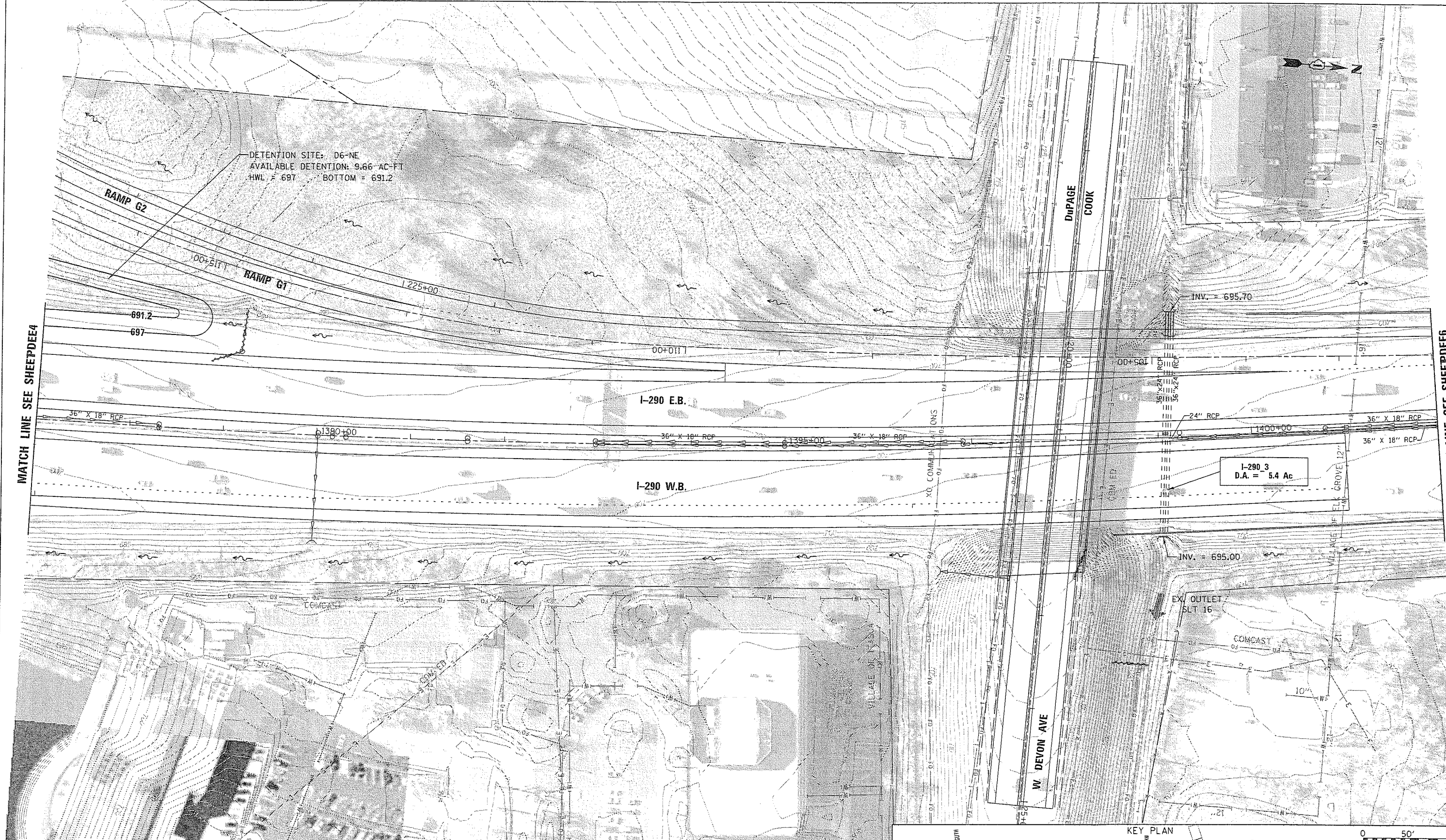
ILLINOIS FED. AID PROJECT

1:35:30 PM

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4:39:58 PM

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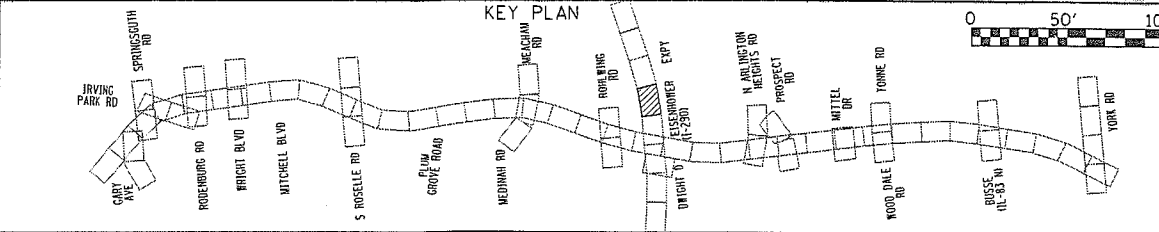
MATCH LINE SEE SHEET DEE4

MATCH LINE SEE SHEET DEE5

LEGEND:

BOUNDARY LINE/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	DITCH SUMMIT	---	---
RIGHT OF WAY LINE	---	---	CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX	HEADWALL	---	---
COUNTY LINE	---	---	CATCH BASIN	○	○	INLET/SCUPPER	○	○
DRAINAGE DIVIDE	---	---	MANHOLE	○	○	INVERT	○	○
HYDROLOGIC ATLAS	---	---	STORM SEWER	---	---	STORM SEWER REMOVAL	---	---
TEMPORARY EASEMENT	TT TT TT	TT TT TT						
PERMANENT EASEMENT	TTTTTTTT	TTTTTTTT						

- DNOTE**
DNOTE-A
DNOTE-B
DNOTE-E1
DNOTE-E2



FILE NAME = DEOWB-shr-pr-drain-DEES-FullBuild.dgn

USER NAME = eanderson
PLOT SCALE = 100'
PLOT DATE = 3/29/2012

DESIGNED MA
DRAWN MYG
CHECKED CW
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



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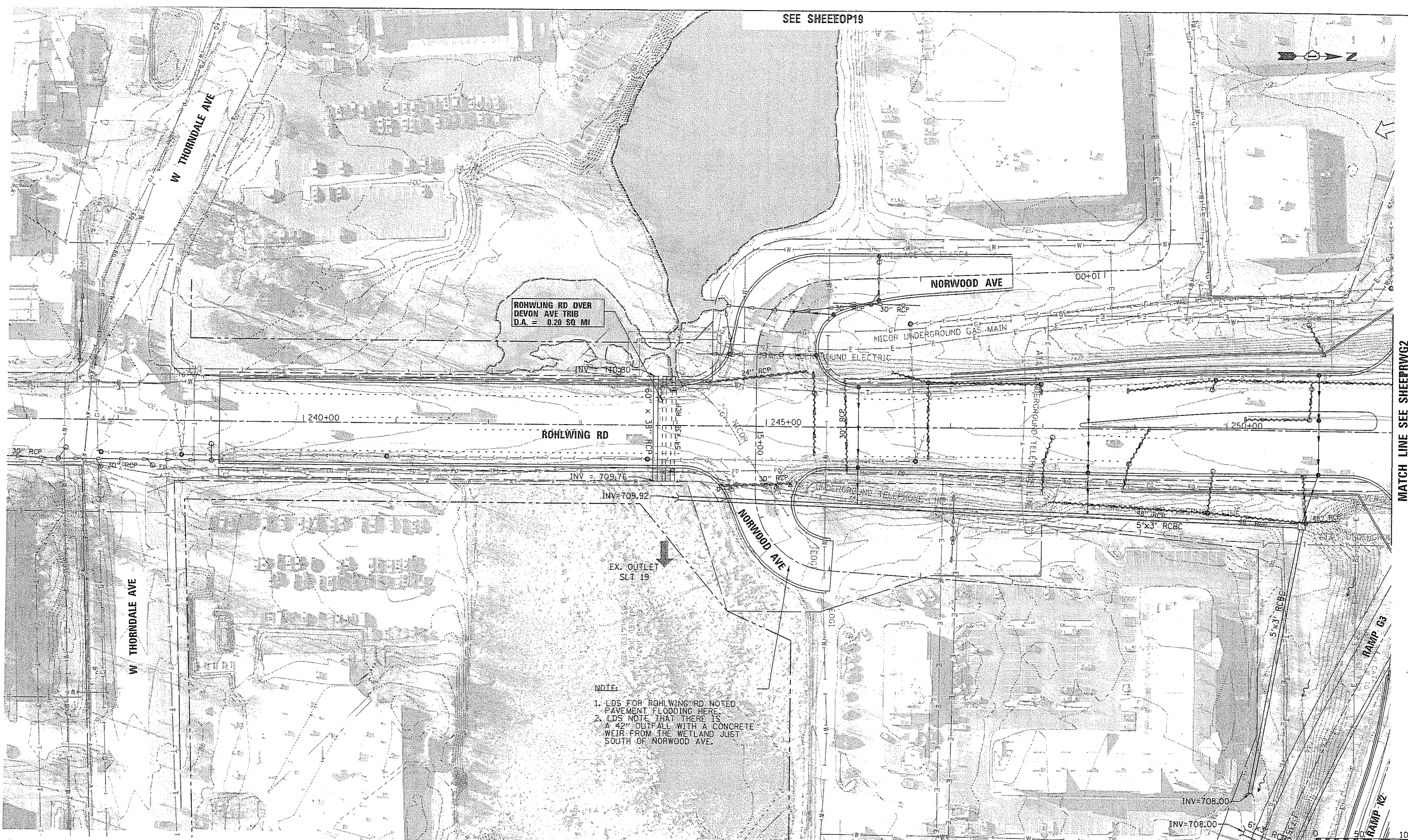


PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DUPAGE	164	P0EE5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SEE SHEEEOP19



MATCH LINE SEE SHEEPWG2

NOTE:

1. LDS FOR ROHLWING RD NOTED PAVEMENT FLOODING HERE.
2. LDS NOTE THAT THERE IS A 42" OUTFALL WITH A CONCRETE WEIR FROM THE WETLAND JUST SOUTH OF NORWOOD AVE.

SEE SHEEEOP20

LEGEND:

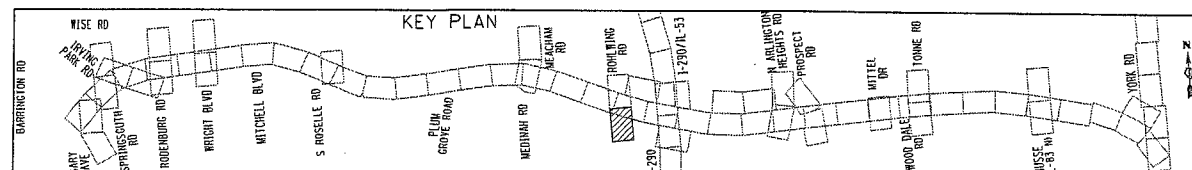
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	---	---	---	---
RIGHT OF WAY LINE	---	---	---	---	---	---
COUNTY LINE	---	---	---	---	---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)	---	---	---	---	---	---
TEMPORARY EASEMENT	---	---	---	---	---	---
PERMANENT EASEMENT	---	---	---	---	---	---
STORM SEWER REMOVAL	---	---	---	---	---	---
SWALE	---	---	---	---	---	---
DITCH	---	---	---	---	---	---
DITCH SUMMIT	---	---	---	---	---	---
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX	2 X 2 BOX	2 X 2 BOX	2 X 2 BOX	2 X 2 BOX
HEADWALL	---	---	---	---	---	---
CATCH BASIN	---	---	---	---	---	---
INLET/SCUPPER	---	---	---	---	---	---
MANHOLE	---	---	---	---	---	---
INVERT	---	---	---	---	---	---
STORM SEWER	---	---	---	---	---	---
OVERFLOW	---	---	---	---	---	---
OUTLET	---	---	---	---	---	---
SHEET FLOW	---	---	---	---	---	---
DITCH CHECK	---	---	---	---	---	---

NOTE

DNOTE-A

DNOTE-E1

DNOTE-E2



FILE NAME = DIEOWB-sh1-pr-drain-RWGL-FullBuild.dgn	USER NAME = eanderson	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
		CHECKED CW	REVISED -
		DATE -	REVISED -

DRAFT

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PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ROHLWING RD

SCALE: 1"=50'

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DuPAGE	164	PRWGJ
CONTRACT NO.				

Y:\36880 - Elgin O'Hare - West Bypass\TIER_TWO\IN\CAD\Models Geometric\Full Build\sheets\DIEOWB-sh1-pr-drain-RWGL-FullBuild.dgn 1:40:18 PM

SEE SHEEOP19



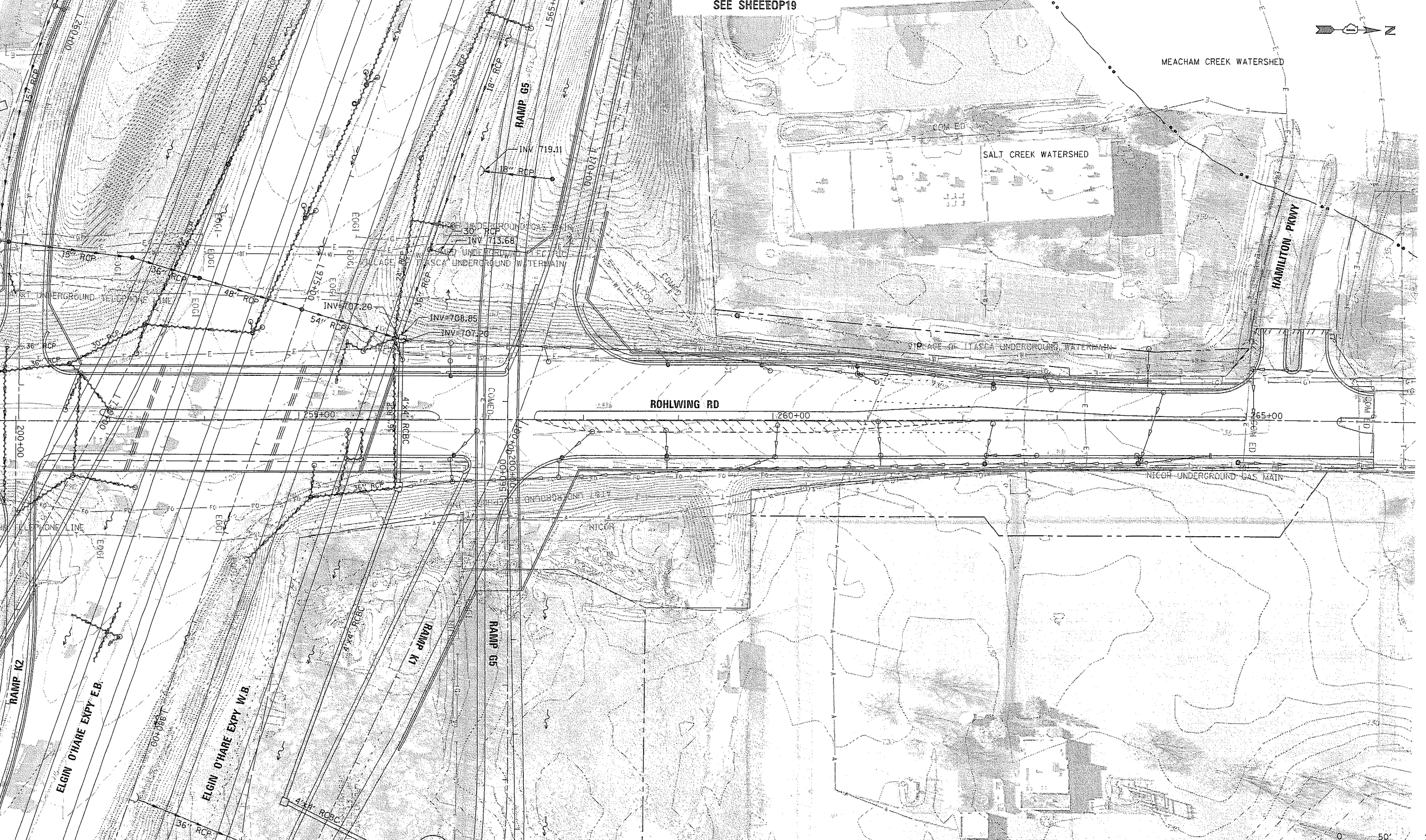
MEACHAM CREEK WATERSHED

SALT CREEK WATERSHED

HAMILTON PRIVY

ROHLWING RD

MATCH LINE SEE SHEEPRWG1

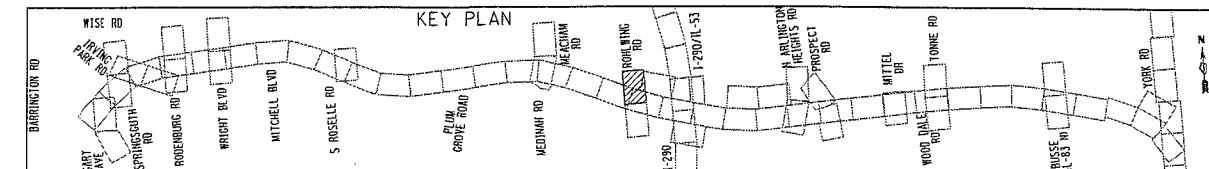


SEE SHEEOP20

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	SWALE	EXISTING	PROPOSED	OVERFLOW	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	DITCH	---	---	OUTLET	---	---
RIGHT OF WAY LINE	---	---	DITCH SUMMIT	---	---	SHEET FLOW	---	---
COUNTY LINE	---	---	CULVERT SIZE/TYPE 2 X 2 BOX	---	---	DITCH CHECK	---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)	---	---	HEADWALL	---	---			
TEMPORARY EASEMENT	---	---	CATCH BASIN	---	---			
PERMANENT EASEMENT	---	---	INLET/SCUPPER	---	---			
STORM SEWER REMOVAL	---	---	MANHOLE	---	---			
			INVERT	---	---			
			STORM SEWER	---	---			

DNOTE
DNOTE-A
DNOTE-E1
DNOTE-E2



FILE NAME = D:\02WB-sht-pr-drain-RWG2_FullBuild.dgn

USER NAME = eanderson
DESIGNED MA
DRAWN MYG
CHECKED CW
PLOT DATE = 3/29/2012

DATE -

REVISED -
REVISED -
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REVISED -



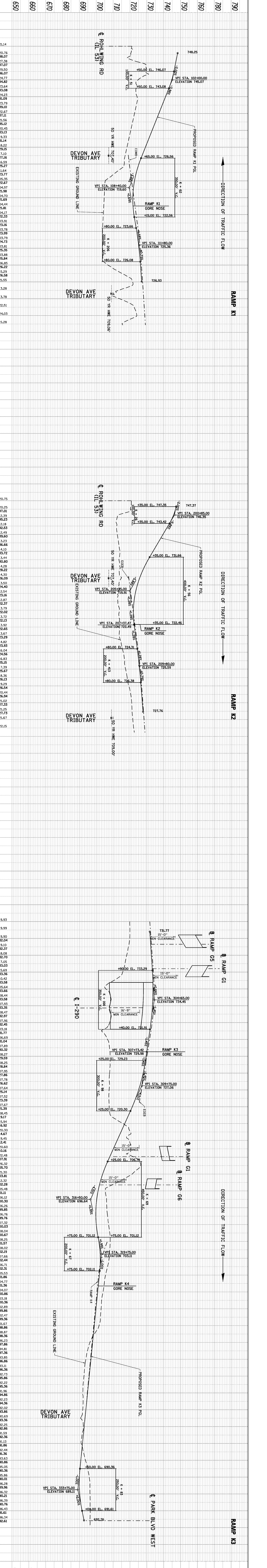
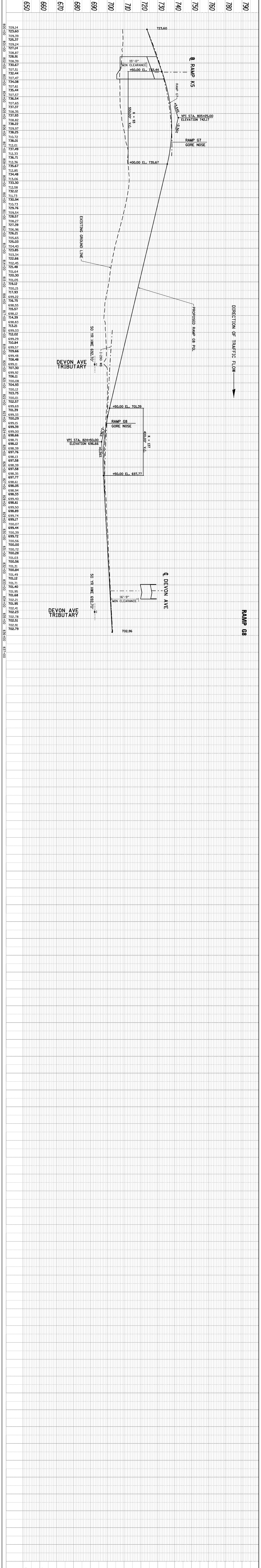
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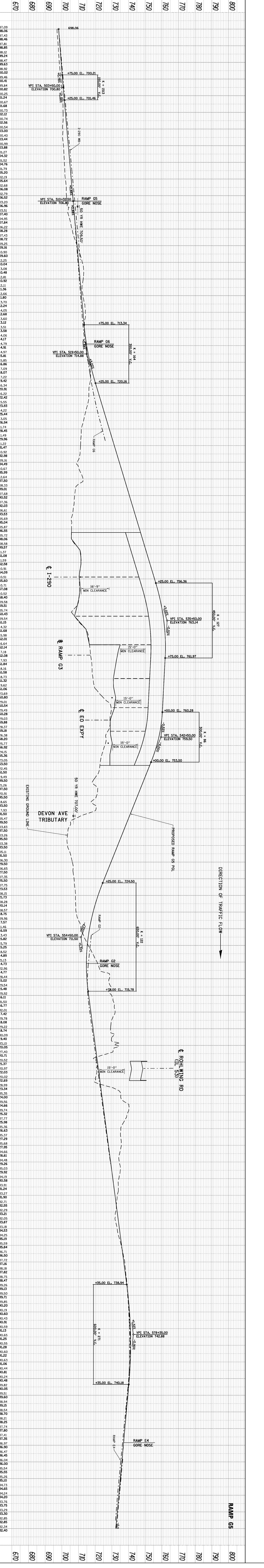
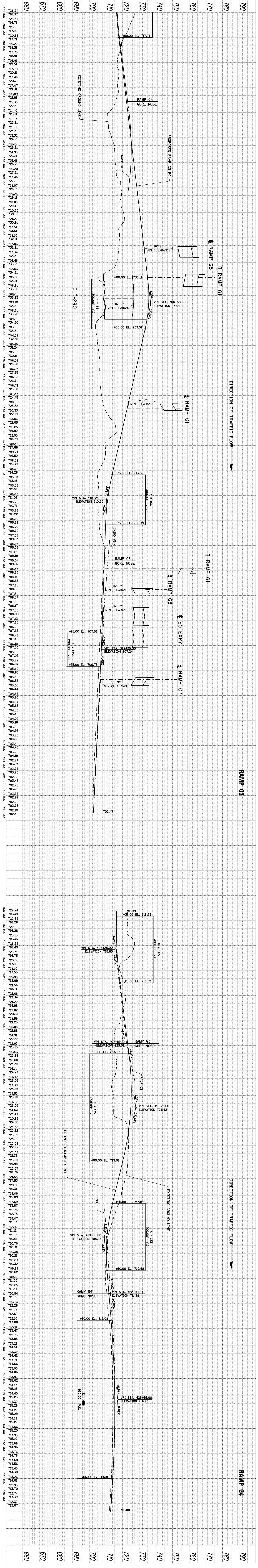
PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ROHLWING RD
SCALE: 1"=50'
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK, DUPAGE	164	PRWG2
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

Y:\3680 - Elgin O'hare - West Bypass\TIER_2\02WB-sht-pr-drain-RWG2_FullBuild.dgn 13:57 PM



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800+00	801+00	802+00	803+00	804+00	805+00	806+00	807+00	808+00	809+00	810+00	811+00	812+00	813+00	814+00	815+00	816+00	817+00	818+00	819+00	820+00	821+00	822+00	823+00	824+00	825+00	826+00	827+00	828+00	829+00	830+00	831+00	832+00	833+00	834+00	835+00	836+00	837+00	838+00	839+00	840+00	841+00	842+00	843+00	844+00	845+00	846+00	847+00	848+00	849+00	850+00	851+00	852+00	853+00	854+00	855+00	856+00	857+00	858+00	859+00	860+00	861+00	862+00	863+00	864+00	865+00	866+00	867+00	868+00	869+00	870+00	871+00	872+00	873+00	874+00	875+00	876+00	877+00	878+00	879+00	880+00	881+00	882+00	883+00	884+00	885+00	886+00	887+00	888+00	889+00	890+00	891+00	892+00	893+00	894+00	895+00	896+00	897+00	898+00	899+00	900+00	901+00	902+00	903+00	904+00	905+00	906+00	907+00	908+00	909+00	910+00	911+00	912+00	913+00	914+00	915+00	916+00	917+00	918+00	919+00	920+00	921+00	922+00	923+00	924+00	925+00	926+00	927+00	928+00	929+00	930+00	931+00	932+00	933+00	934+00	935+00	936+00	937+00	938+00	939+00	940+00	941+00	942+00	943+00	944+00	945+00	946+00	947+00	948+00	949+00	950+00



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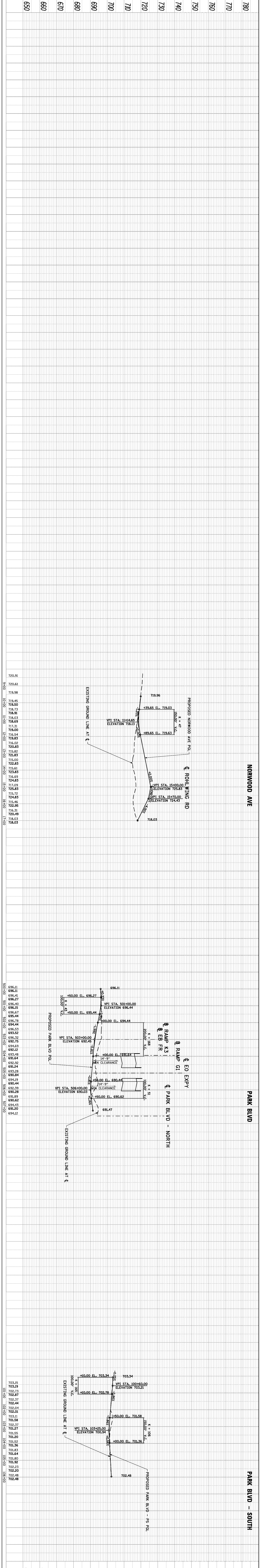
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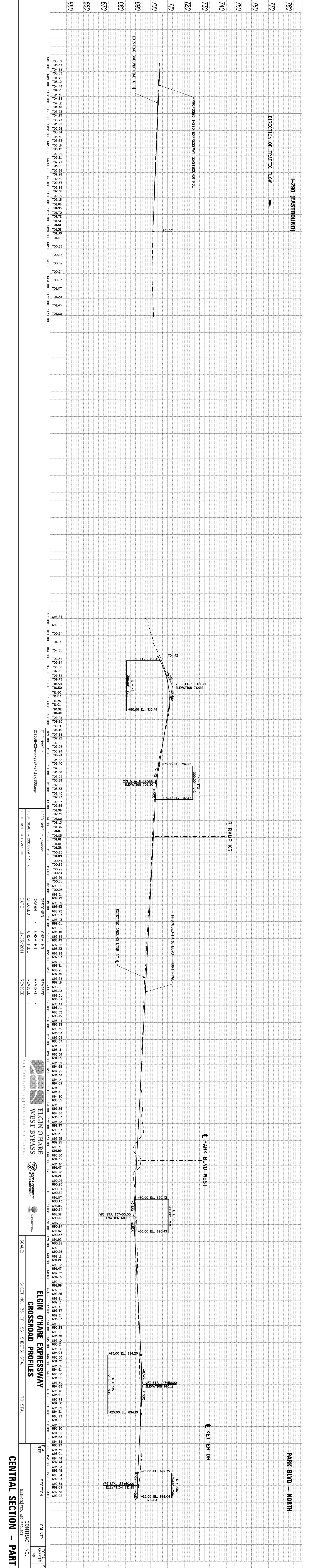
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670	680	690	700	710	720	730	740						



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ELGIN OHARE EXPRESSWAY CROSSROAD PROFILES

CENTRAL SECTION - PART A

TO STA.

SCALE:

SHEET NO. 35 OF 95 SHEETS STA.

CONTRACT NO.

COUNTY

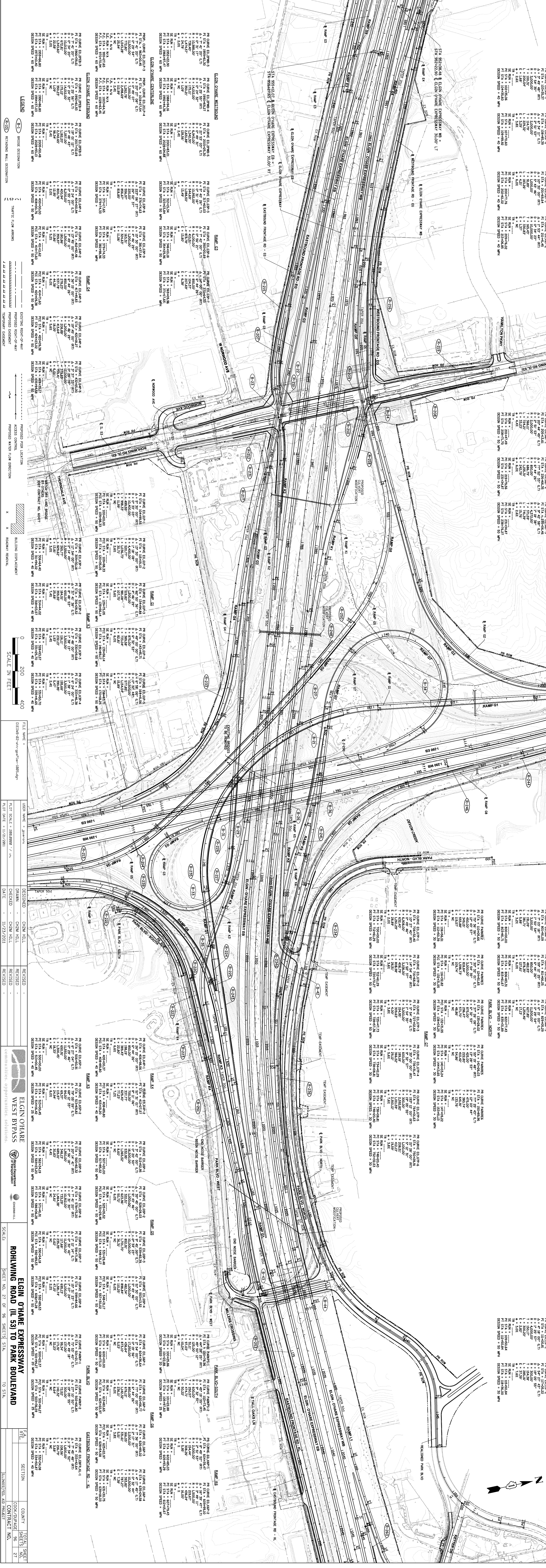
SECTION

SHEET

35

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660	660
650	650

BAMP 01
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BAMP 99
BAMP 100



LEGEND

- BRIDGE DESTINATION
- TRAFFIC FLOW ARROWS
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- ACCESS CONTROL
- PROPOSED WATER FLOW DIRECTION
- BUILDING DISPLACEMENT
- ROADWAY REPAIRS

SCALE IN FEET

0 200 400

FILE NAME: J:\Projects\112821.dgn	DESIGNED: CHAM HILL	REVISION:
DRAWN: CHAM HILL	CHECKED: CHAM HILL	REVISION:
DATE: 11/23/2011	REVISION:	REVISION:

WEST BYPASS

ELGIN O'HARE EXPRESSWAY

ROLLINGWOOD ROAD (IL 53) TO PARK BOULEVARD

SHEET NO. 27 OF 95 SHEETS STA. 1

COUNTY: COOK

SHEET NO. 27

CONTRACT NO.

DATE: 11/23/2011

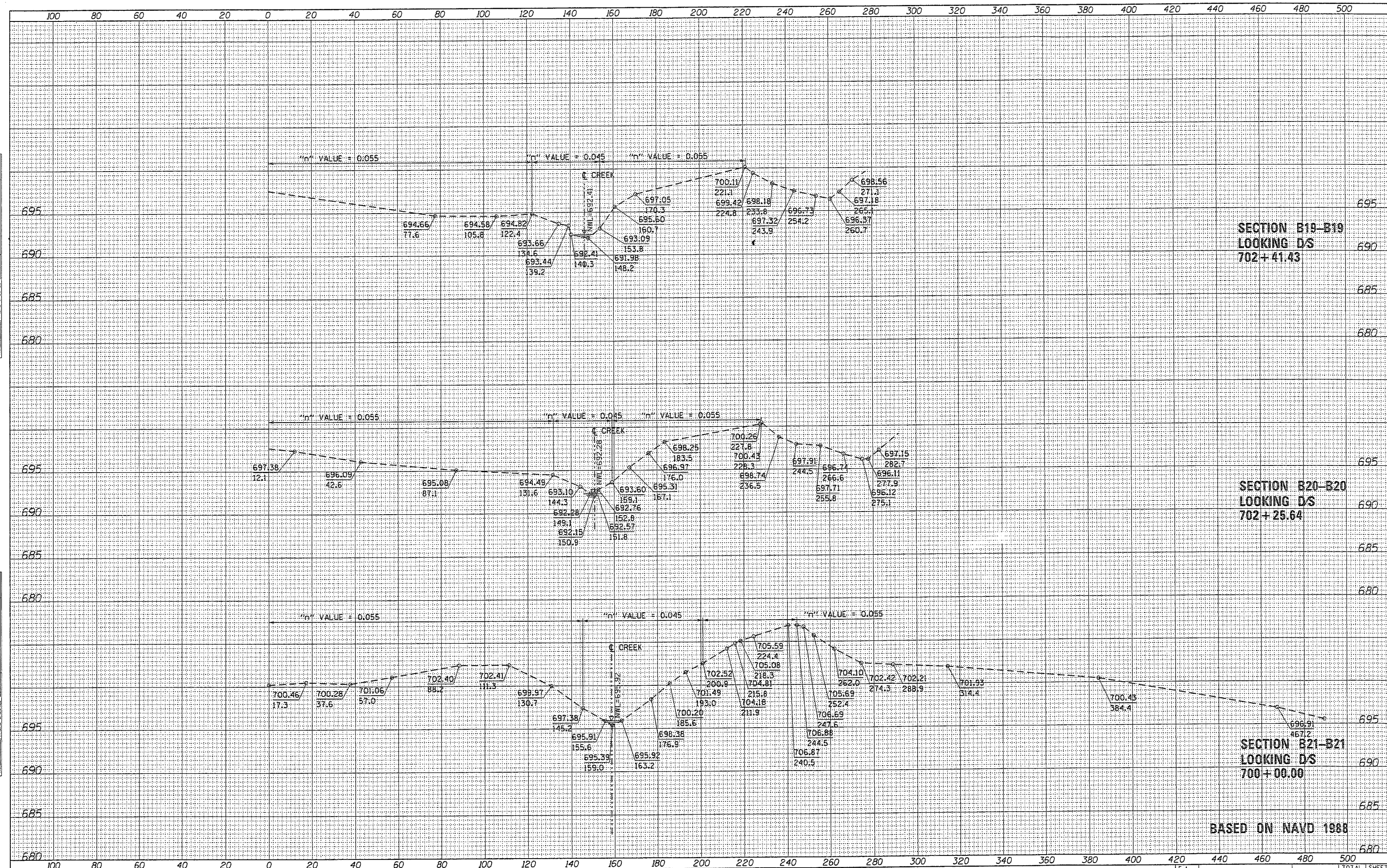
CENTRAL SECTION - PART A

SECTION 6

**CROSS SECTION PLOTS
STRUCTURE OPENING PLOTS**

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

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



SECTION B19-B19
LOOKING DS
702+41.43

SECTION B20-B20
LOOKING DS
702+25.64

SECTION B21-B21
LOOKING DS
700+00.00

BASED ON NAVD 1988

FILE NAME = Y:\361180 - Elgin O'Hare - West Bypass\TIER TWO	USER NAME = eanderson	DESIGNED - PP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN OHARE WEST BYPASS DEVON AVENUE TRIBUTARY	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	HY\CAD\Sheets\DIOWB-02-sht-xxsht-01.dgn	DRAWN - MYG	REVISED -		SCALE: 20H 5V	SHEET NO. 1 OF 15 SHEETS	STA. 700+00.00 TO STA. 702+41.43				
	PLOT SCALE = 40'	CHECKED - CW	REVISED -								
	PLOT DATE = 3/28/2012	DATE -	REVISED -								

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



SECTION B8-B8
LOOKING D/S
710+90.43

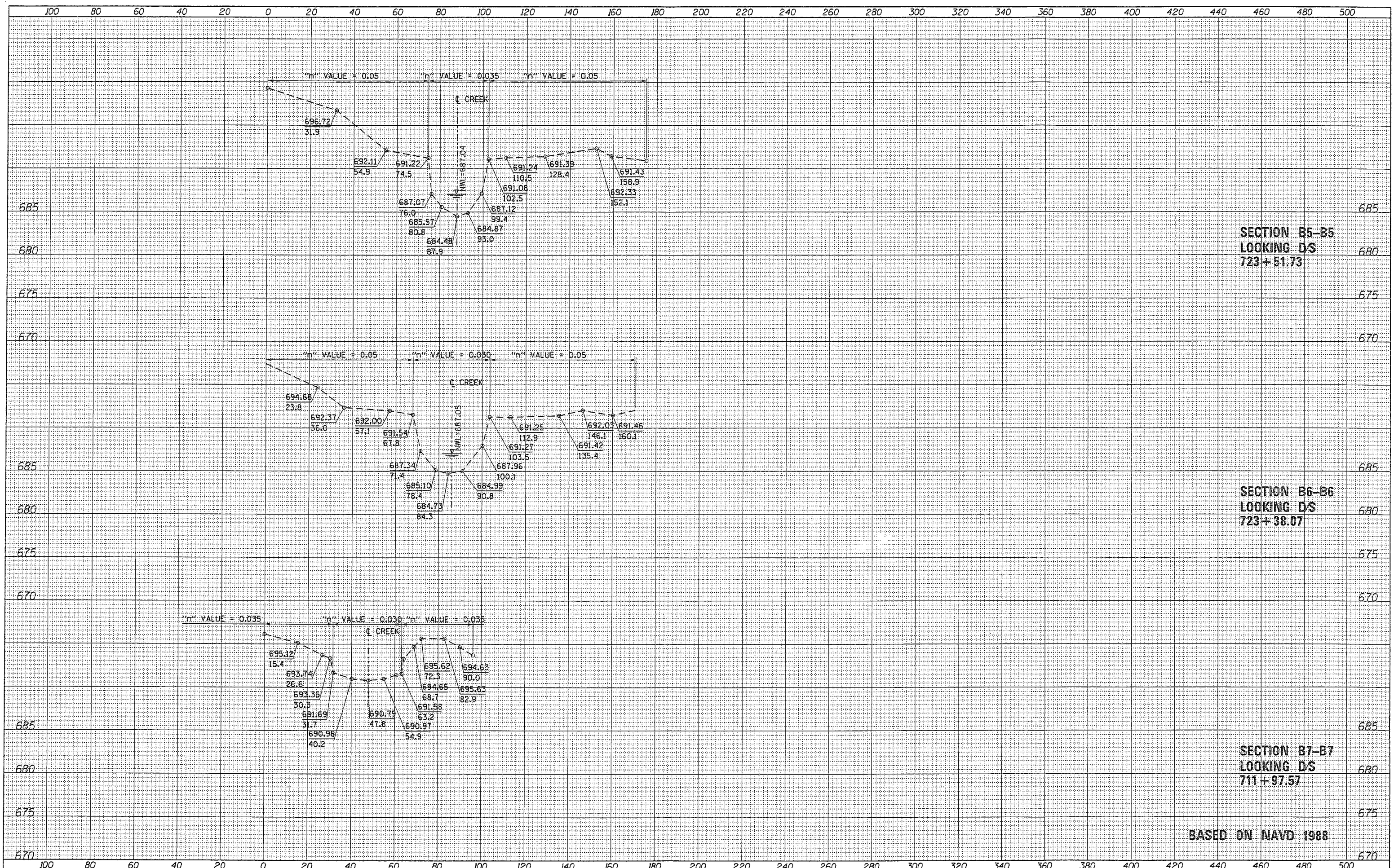
SECTION B9-B9
LOOKING D/S
710+86.71

SECTION B12-B12
LOOKING D/S
706+92.79

BASED ON NAVD 1988

BY	DATE
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



SECTION B5-B5
LOOKING DS
723+51.73

SECTION B6-B6
LOOKING DS
723+38.07

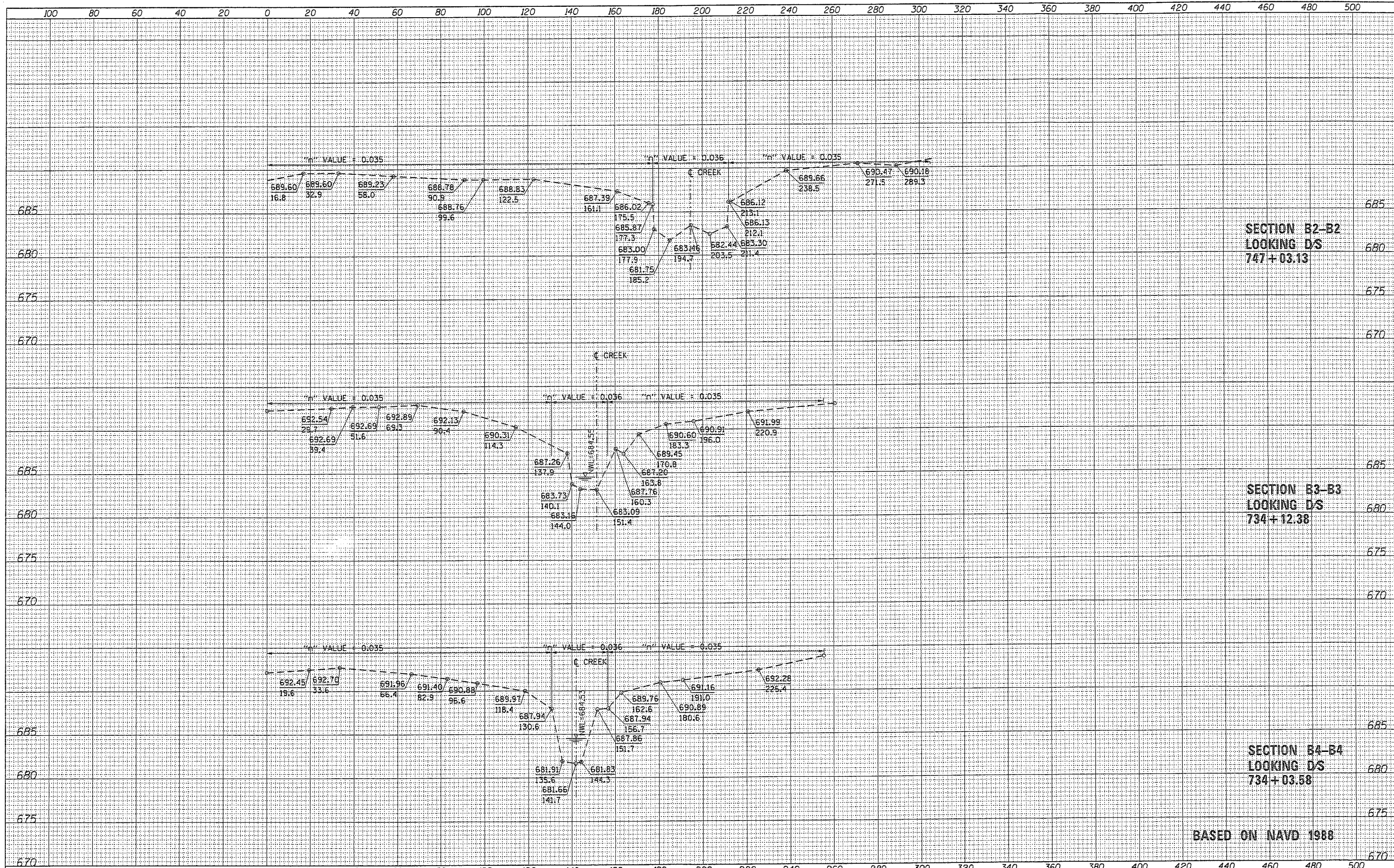
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LOOKING DS
711+97.57

BASED ON NAVD 1988

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		CHECKED - CW	REVISED -										
		DATE -	REVISED -										
										CONTRACT NO.			
										[ILLINOIS] FED. AID PROJECT			

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. AS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. AS CHECKED	
NO.	



SECTION B2-B2
LOOKING DS
747+03.13

SECTION B3-B3
LOOKING DS
734+12.38

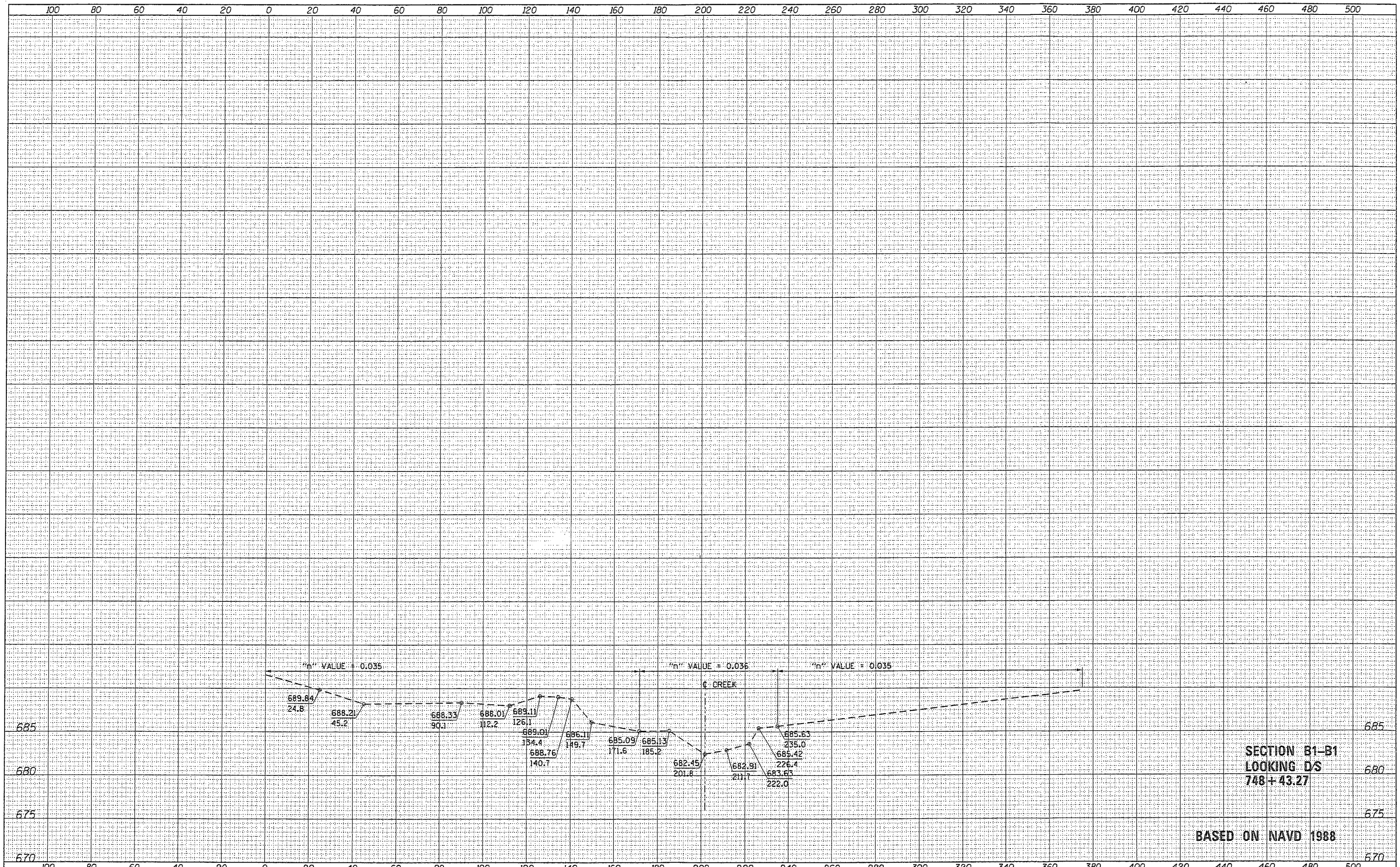
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LOOKING DS
734+03.58

BASED ON NAVD 1988

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	PLOT DATE = 3/28/2012	DATE -	REVISED -									

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

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



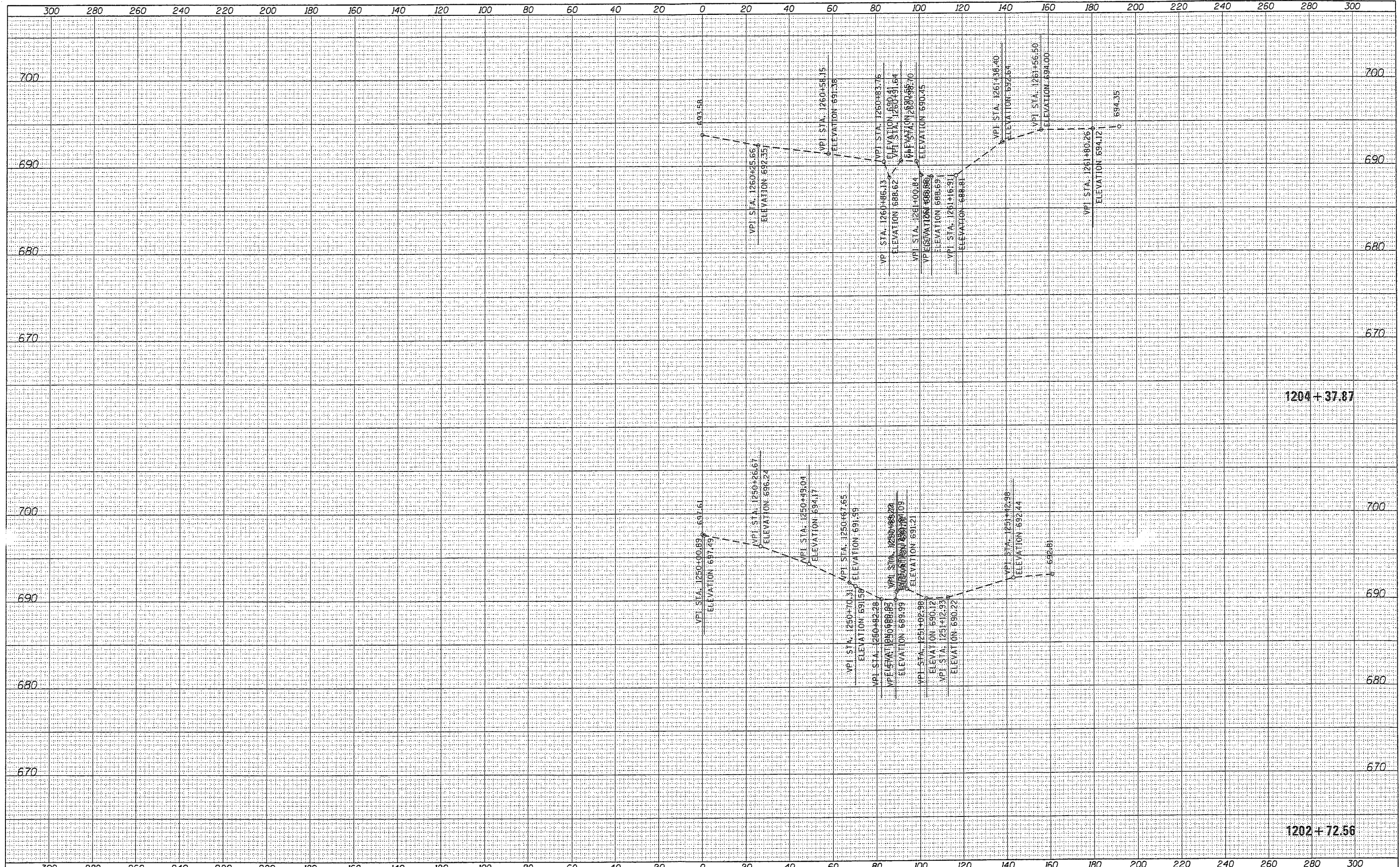
SECTION B1-B1
LOOKING DS
748+43.27

BASED ON NAVD 1988

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	PLOT DATE = 3/28/2012	DATE -	REVISED -									

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

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



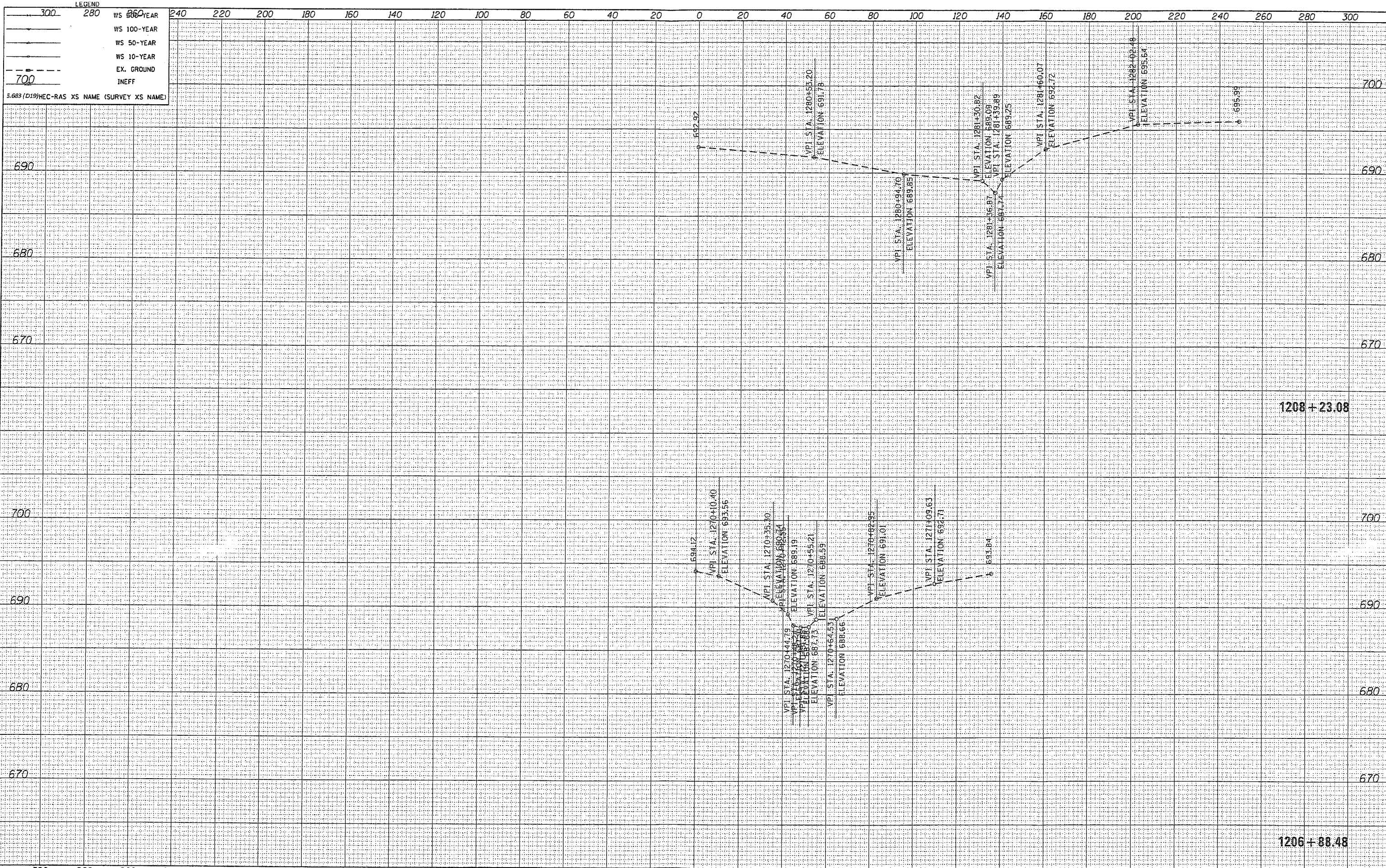
1204 + 37.87

1202 + 72.56

FILE NAME =	USER NAME = eanderson	DESIGNED - PP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				ELGIN OHARE WEST BYPASS DEVON AVENUE TRIBUTARY				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 40.000000 / in.	CHECKED - CW	REVISED -	REVISED -	CONTRACT NO.													
PLOT DATE = 3/28/2012	DATE -	REVISED -	REVISED -														

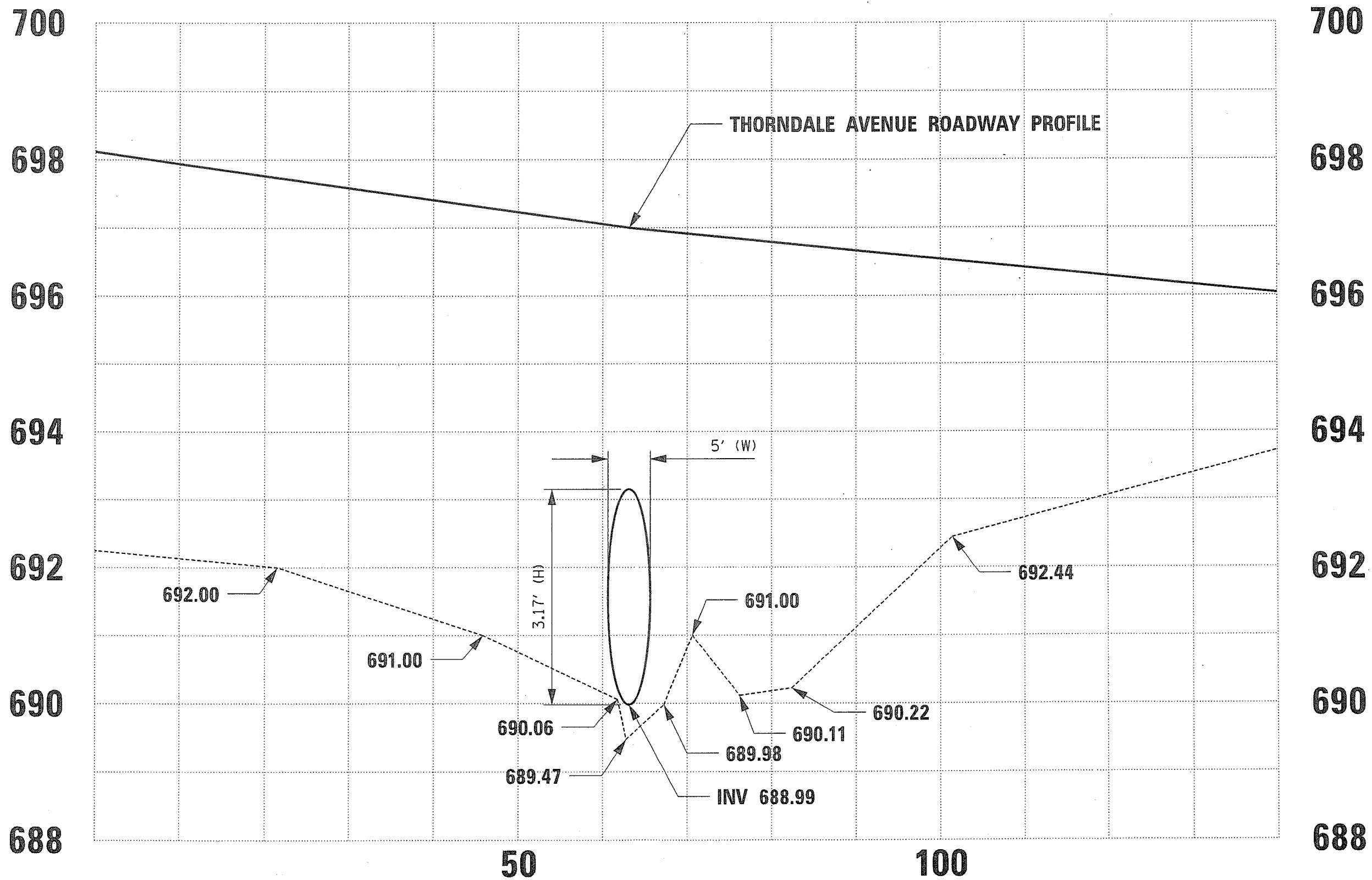
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

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



FILE NAME =	USER NAME = eanderson	DESIGNED - PP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ELGIN OHARE WEST BYPASS DEVON AVENUE TRIBUTARY	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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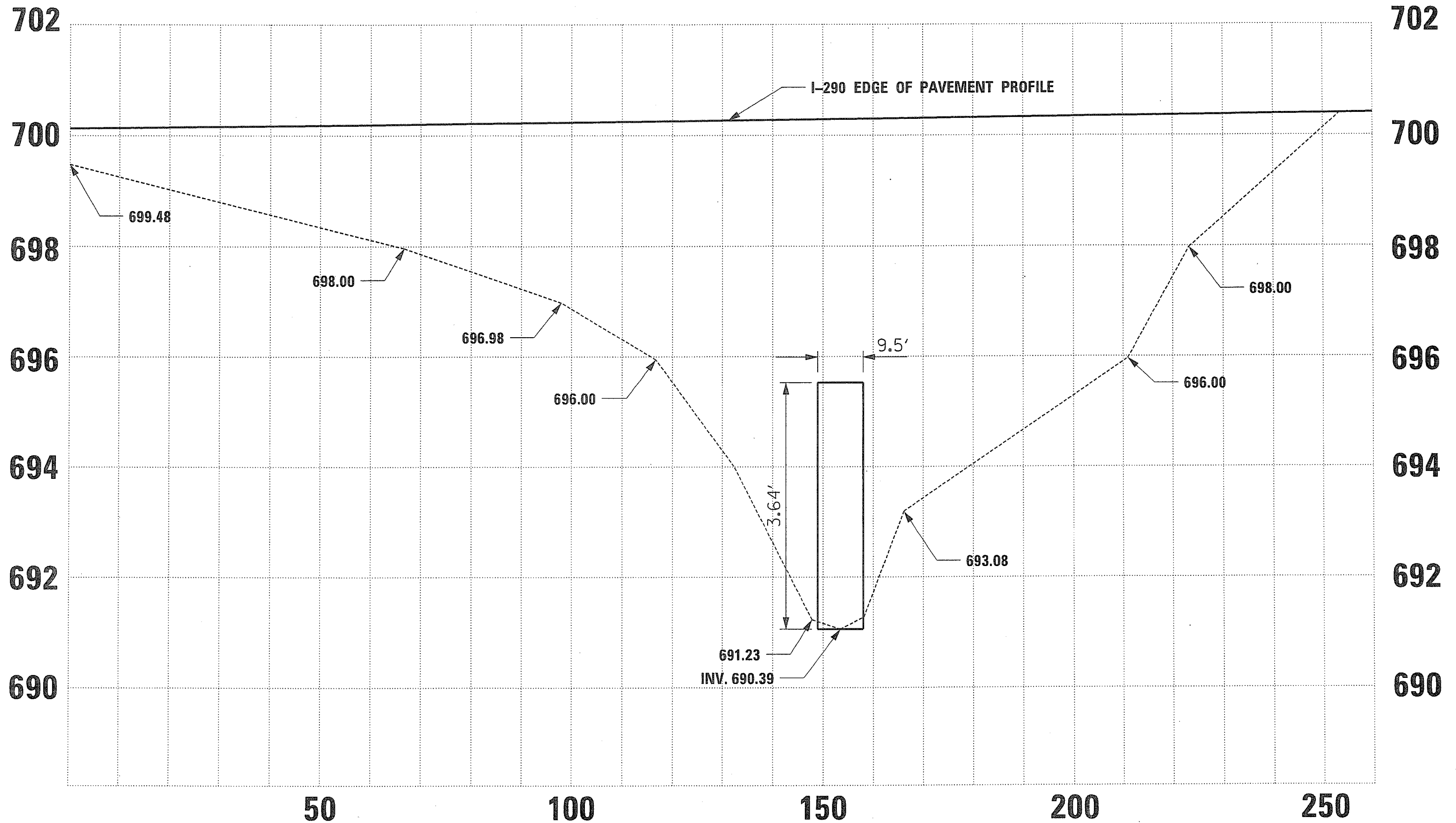
ILLINOIS FED. AID PROJECT



DOWNSTREAM FACE
(Looking Downstream)

Based on NAVD 1988 Datum

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	R:\TWO\HY\CAD\Exhibits\Devon Avenue Tributary\DRAWN\venue01.dwg	CHECKED - CW	REVISED -		SCALE: \$SCALE\$	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 070404		
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	PLOT DATE = 9/29/2011		REVISED -										



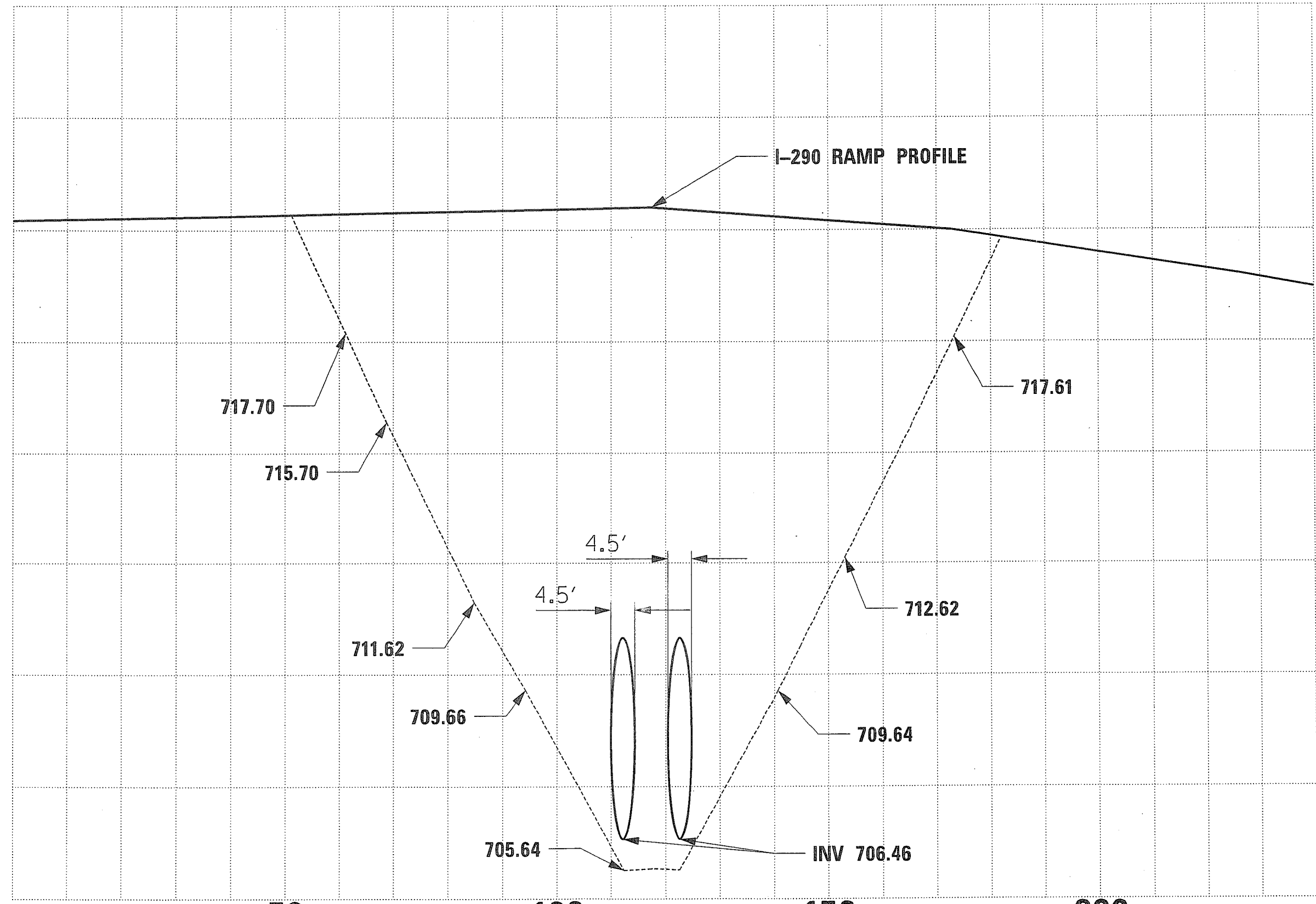
**DOWNSTREAM FACE
(Looking Downstream)**

Based on NAVD 1988 Datum

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	PLT SCALE = 20'	CHECKED - CW	REVISED -		SCALE: #SCALE#	SHEET NO.	OF	SHEETS	STA.	TO STA.	6	2
PLT DATE = 9/29/2011	DATE = 9/29/2011	REVISED -						CONTRACT NO. 070404		ILLINOIS FED. AID PROJECT		

725
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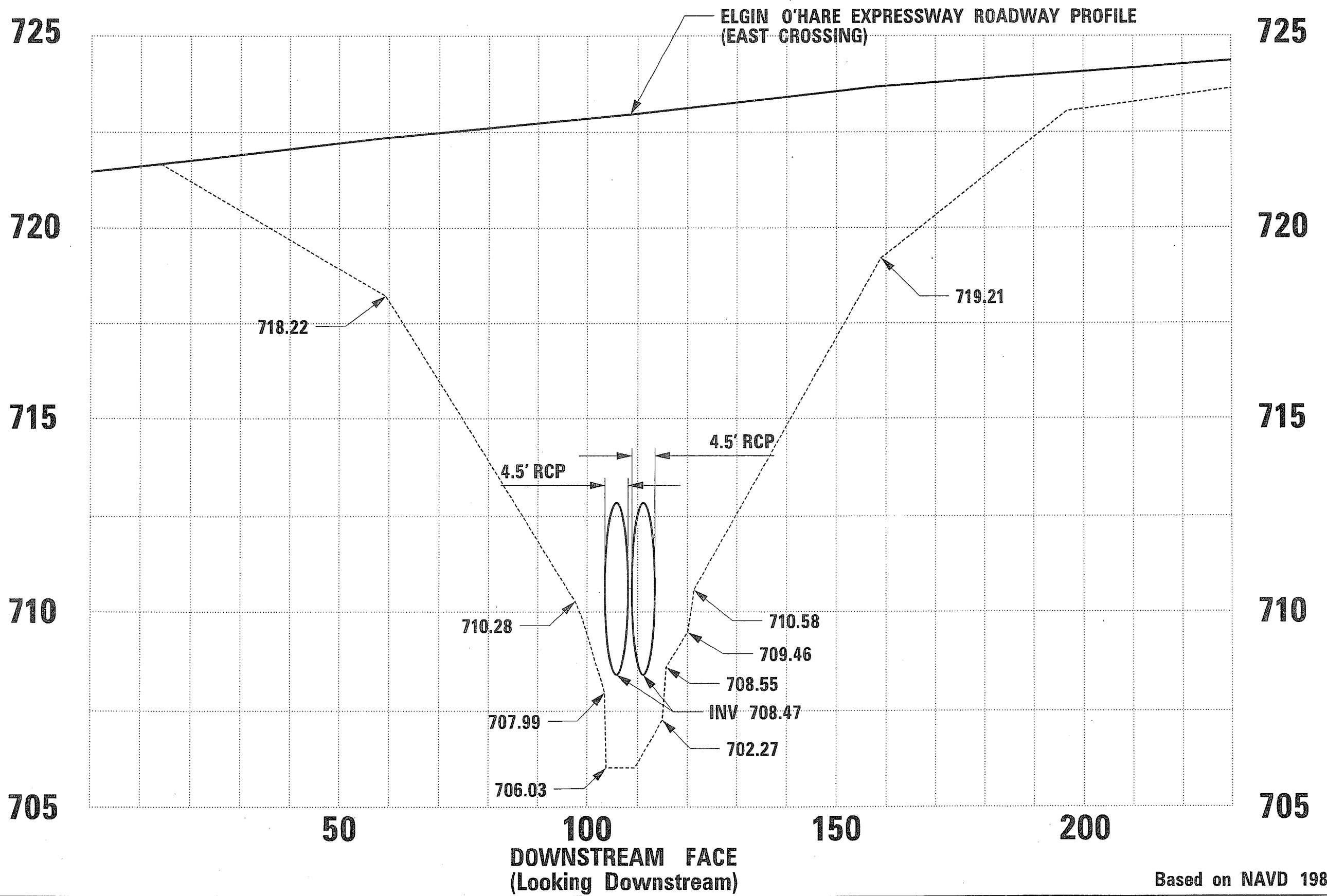


50 100 150 200

DOWNSTREAM FACE
(Looking Downstream)

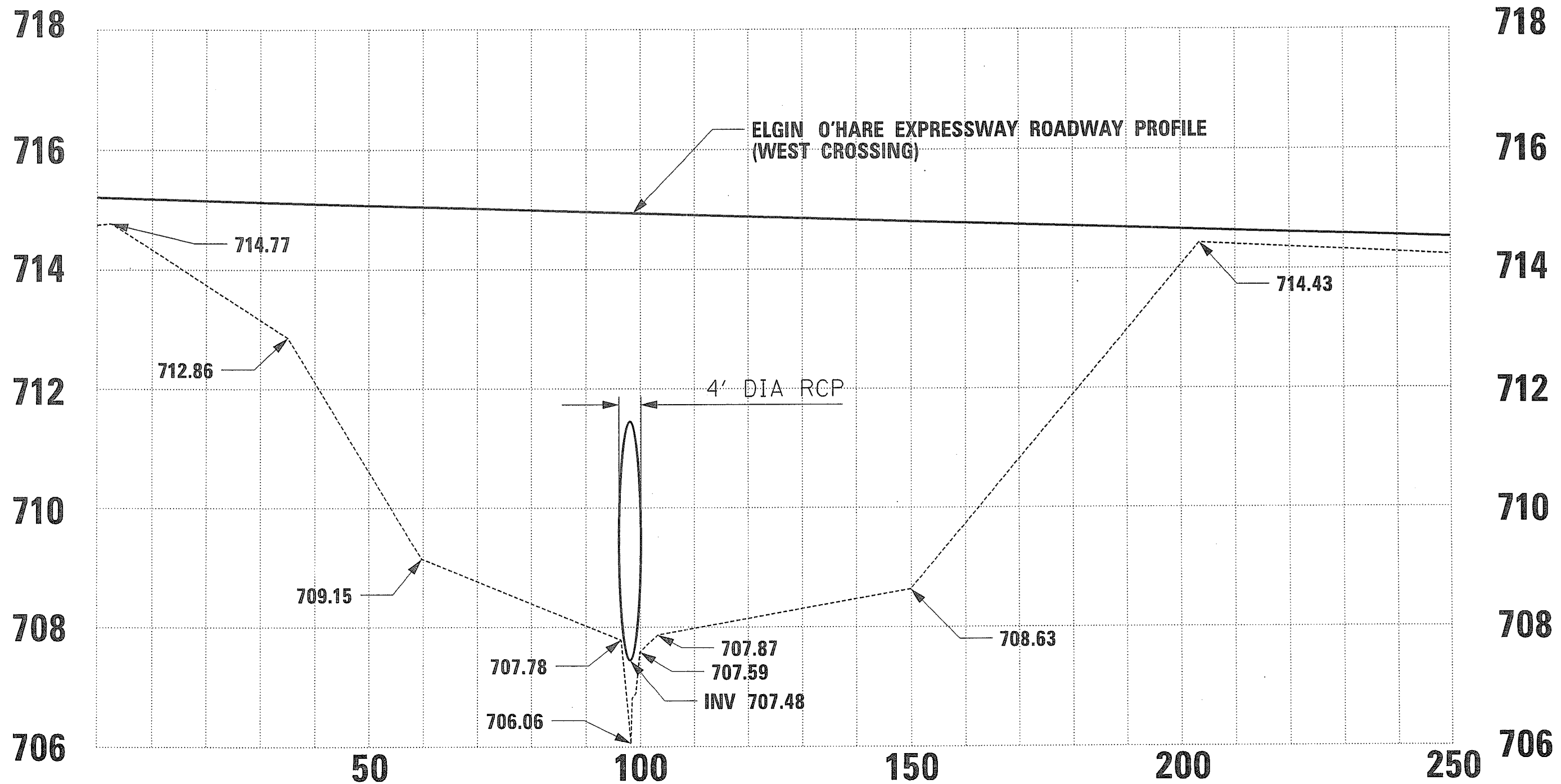
Based on NAVD 1988 Datum

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	R:\TWO\HY\CAD\Exhibits\Devon Avenue Tributary\DRAWN\Avenue01.dwg	DRAWN - MG	REVISED -		SCALE: #SCALE#	SHEET NO.	OF	SHEETS	STA.	TO STA.		6	3
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	PLOT DATE = 9/29/2011	DATE - 9/29/2011	REVISED -								ILLINOIS FED. AID PROJECT		



Based on NAVD 1988 Datum

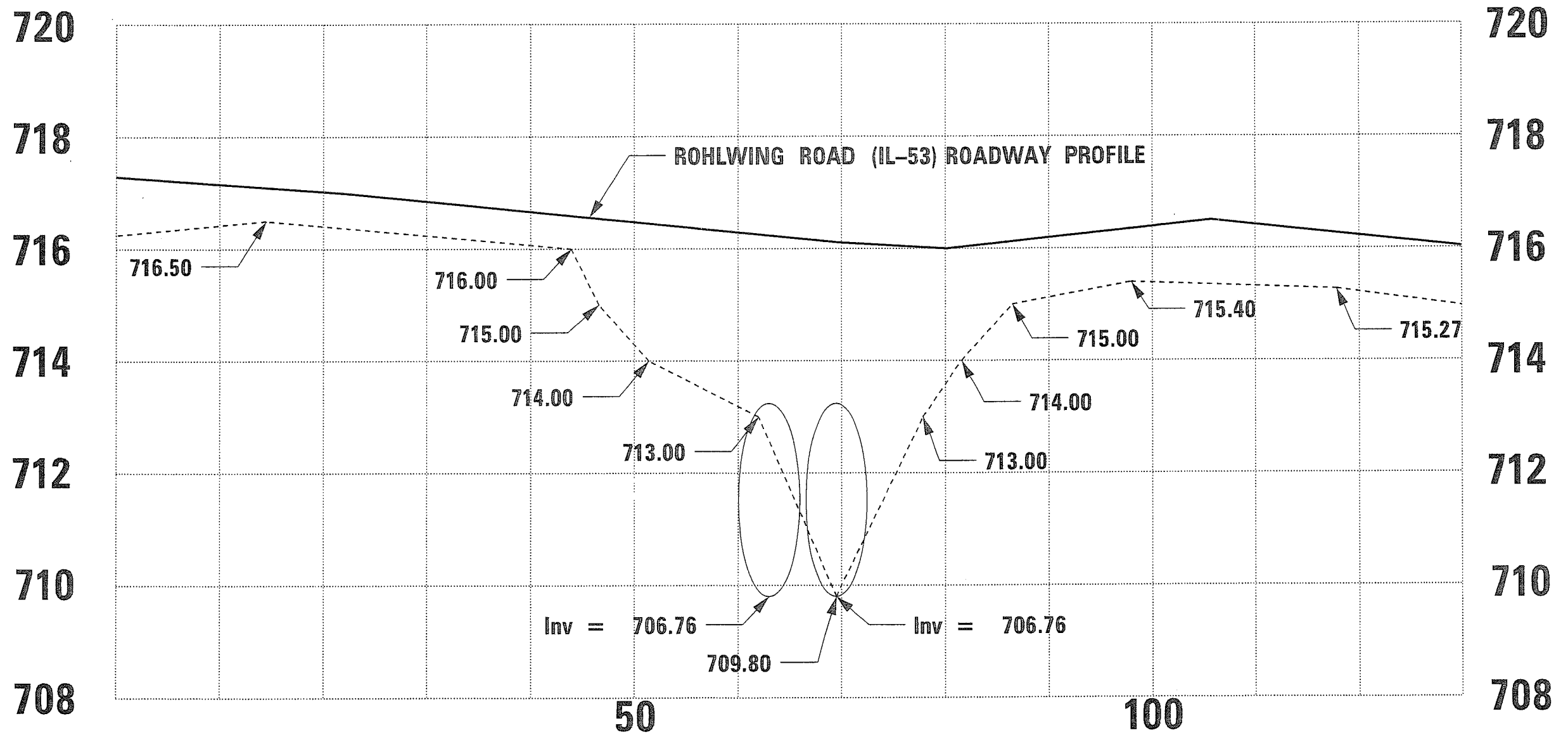
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		DRAWN - vvenue01.dwg	REVISED -		SCALE: #SCALE#	SHEET NO.	OF	SHEETS	STA.	TO STA.		6	4
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		DATE - 9/29/2011	REVISED -								ILLINOIS FED. AID PROJECT		



**DOWNSTREAM FACE
(Looking Downstream)**

Based on NAVD 1988 Datum

FILE NAME = Y:\361188 - Elgin O'Hare - West Bypass\T1	USER NAME = EANDERSON	DESIGNED - PP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN O'HARE - WEST BYPASS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 20'	CHECKED - CW	REVISED -				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 9/29/2011	DATE - 9/29/2011	REVISED -								



**DOWNSTREAM FACE
(Looking Downstream)**

Based on NAVD 1988 Datum

FILE NAME = Y:\361188 - Elgin O'Hare - West Bypass\TI	USER NAME = eanderson	DESIGNED - PP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELGIN O'HARE - WEST BYPASS ROHLWING ROAD (IL RT-53) OVER DEVON AVENUE TRIBUTARY				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DR_TWD\HY\CAD\Exhibits\Devon Avenue Tributary\DRAWN\Avenue01.dwg	CHECKED - CW	REVISED -		SCALE: \$SCALE\$	SHEET NO.	OF	SHEETS	STA.	TO STA.		6	6
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	PLOT DATE = 3/28/2012				ILLINOIS FED. AID PROJECT								

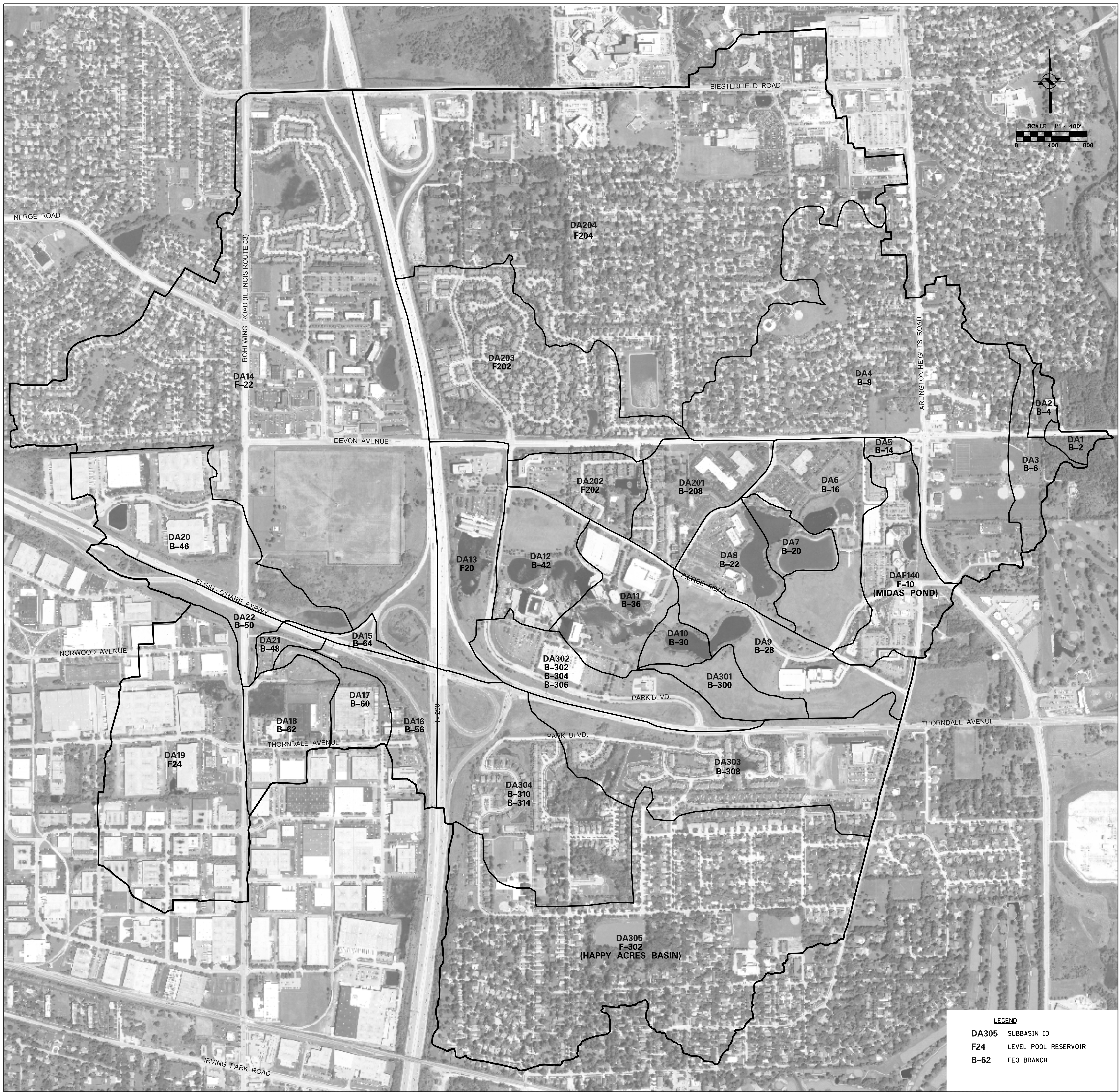
SECTION 7

REGULATORY HYDROLOGIC AND HYDRAULIC MODELING

The regulatory water profile information was taken from the Flood Insurance Study information included in SECTION 3.

SECTION 8

BASELINE CONDITIONS ANALYSIS



LEGEND

DA305	SUBBASIN ID
F24	LEVEL POOL RESERVOIR
B-62	FEO BRANCH

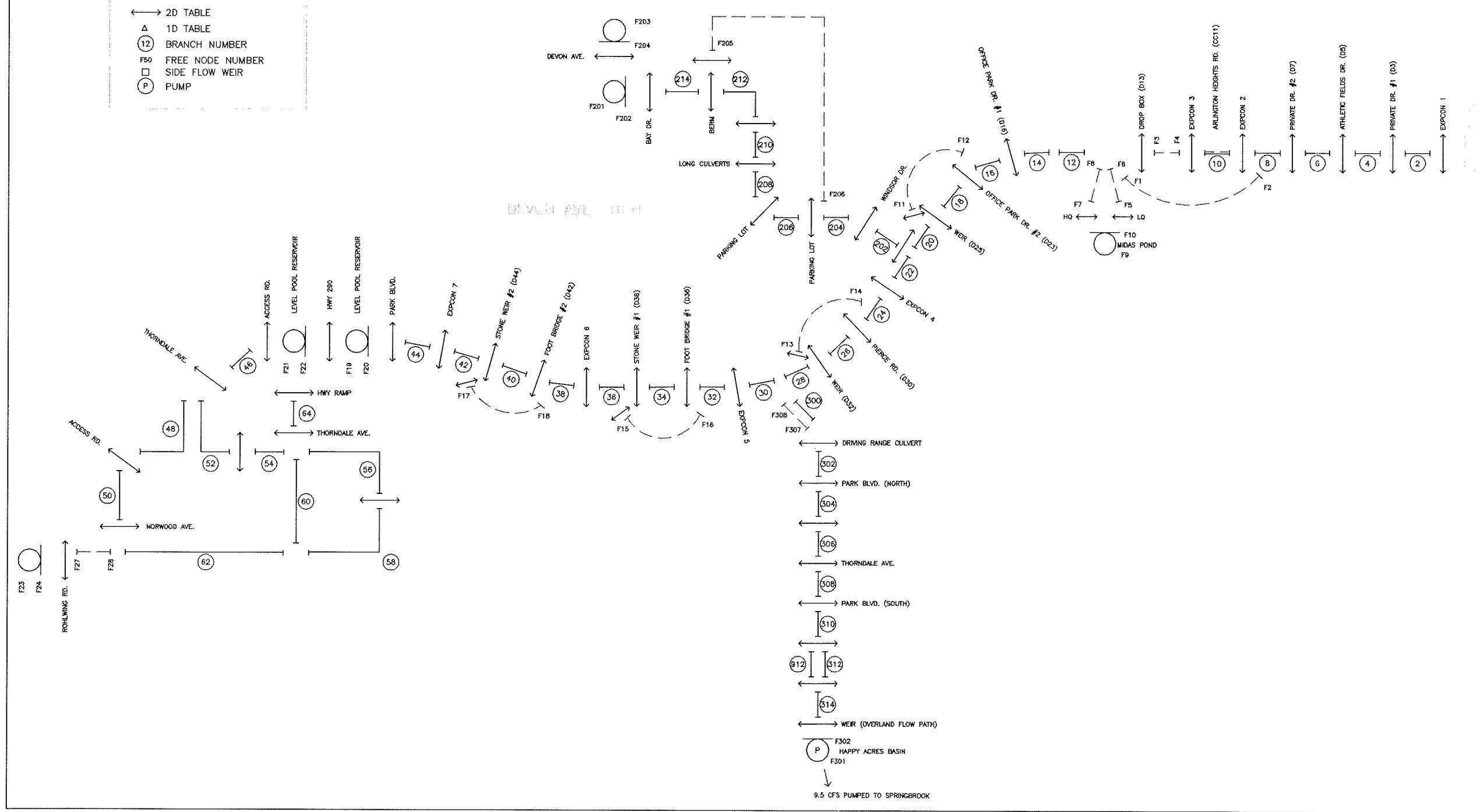
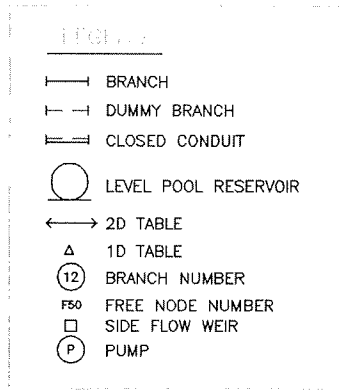
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N:\dot\878484\Water\Exhibit MY\878484	h. Devon Ave Trib Baseline Conditions Water	DRAWN =	REVISED =										
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PLOT DATE = 10/9/2012		DATE =	REVISED =							ILLINOIS FED. AID PROJECT			

Vertical Datum Shift at Tribshed Centroid:
 (NGVD29 Z) - (NAVD88 Z) = Vert_Datum_Z_Diff

Tribshed	Centroid_X	Centroid_Y	Vert_Datum_Z_Diff
DPAC	1090851.805	1915917.988	0.284
DPBD	1090300.408	1928251.631	0.289
DPBP	1069526.246	1834401.078	0.273
DPCT	1095138.663	1933742.369	0.297
DPDP	1086075.951	1836308.959	0.281
DPFC	1092186.933	1862169.450	0.273
DPWL	1087693.122	1935775.362	0.290
DULC	1068557.762	1844102.949	0.269
DUSG	1024560.823	1846891.871	0.260
EBAR	1054307.337	1912078.738	0.265
EBAT	1063079.858	1918498.724	0.271
EBCR	1063409.687	1850057.241	0.269
EBE1	1064848.564	1908545.753	0.274
EBE2	1056600.283	1905924.860	0.266
EBE3	1067754.554	1889224.245	0.274
EBE6	1049763.550	1858655.226	0.266
EBE7	1050951.260	1852487.637	0.266
EBEB	1057861.023	1878313.365	0.269
EBGL	1056727.717	1890149.084	0.267
EBGP	1068420.299	1882803.828	0.271
EBLA	1069166.542	1877016.345	0.270
EBPR	1067217.160	1857896.209	0.269
EBRC	1042528.535	1874506.900	0.263
EBSJ	1071053.387	1867231.853	0.268
EBSM	1062134.451	1921591.295	0.271
EBTS	1068312.705	1886187.964	0.273
EBWI	1050210.931	1882005.809	0.266
FRBC	1012948.509	1932703.573	0.260
FRIC	1006861.549	1867709.057	0.238
FRNC	1010296.442	1920800.567	0.250
FRWA	1012353.067	1853795.526	0.244
SCBW	1086620.100	1874905.185	0.269
SCDA	1069824.327	1939096.404	0.282
SCGC	1081124.119	1882900.764	0.273
SCOB	1083032.901	1888401.164	0.278
SCSB	1058010.472	1933660.642	0.280
SCSC	1083902.855	1908499.038	0.282
SCSU	1077616.404	1893610.873	0.276
SCWC	1070755.062	1916608.760	0.277
SWSW	1083447.228	1846508.809	0.268
SWWD	1074386.588	1847435.676	0.266
WBCC	1034367.472	1867556.844	0.263
WBFE	1014752.456	1876081.139	0.252
WBFX	1037056.063	1845059.989	0.267
WBKC	1040926.759	1912276.937	0.260
WBKR	1010353.705	1900888.881	0.245
WBSP	1040160.456	1887762.853	0.257
WBSR	1041615.540	1862408.865	0.266
WBW1	1040852.583	1928887.384	0.269
WBW2	1028202.170	1938439.343	0.262
WBW3	1022203.395	1909294.269	0.256
WBW4	1031770.194	1914696.360	0.262
WBW5	1026104.116	1900851.136	0.256
WBW6	1043797.510	1856220.038	0.266
WBW7	1044498.398	1853424.223	0.265
WBW8	1035709.627	1840964.889	0.269
WBWB	1032468.229	1902535.180	0.258
WBWF	1043025.773	1898112.419	0.256
WBWG	1034722.953	1849634.602	0.268



WATER MAIN SYSTEM PLAN



Baseline Conditions

[Folder: \Devon\FEQ\070404\baseline]
FEQ Input File for Long TSF:
FEQ Peak File for Long TSF:
FEQ Output File for Long TSF:
FEQ Input File for BIG TSF:
FEQ Peak File for BIG TSF:
FEQ Output File for BIG TSF:
PVSTATS Analysis:

\\Ing08\da_1\Ing.feq
\\Ing08\da_1\Ing.pek
\\Ing08\da_1\Ing
\\big15\DA_IBIGr.feq
\\big15\DA_IBIGr.pek
\\big15\DA_IBIGr
See Folder pvstats_BL

Existing Conditions

[Folder: \Devon\FEQ\070404\Exist]
FEQ Input File for Long TSF:
FEQ Peak File for Long TSF:
FEQ Output File for Long TSF:
FEQ Input File for BIG TSF:
FEQ Peak File for BIG TSF:
FEQ Output File for BIG TSF:
PVSTATS Analysis:

\\Ing08\DAlex8c.feq
\\Ing08\DAlex8c.pek
\\Ing08\DAlex8c
\\big15\DAlex8c.feq
\\big15\DAlex8c.pek
\\big15\DAlex8c
See Folder pvstats_ex8c

Natural Conditions

[Folder: \Devon\FEQ\070404\natural17]
FEQ Input File for Long TSF:
FEQ Peak File for Long TSF:
FEQ Output File for Long TSF:
FEQ Input File for BIG TSF:
FEQ Peak File for BIG TSF:
FEQ Output File for BIG TSF:
PVSTATS Analysis:

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\\Ing08\DALn7b.pek
\\Ing08\DALn7b
\\big15\DALn7b.feq
\\Ing08\DALn7b
\\big15\DALn7b
See Folder pvstats_n7b

Proposed Conditions

[Folder: \Devon\FEQ\070404\proposed]
FEQ Input File for Long TSF:
FEQ Peak File for Long TSF:
FEQ Output File for Long TSF:
FEQ Input File for BIG TSF:
FEQ Peak File for BIG TSF:
FEQ Output File for BIG TSF:
PVSTATS Analysis:

\\Ing08\DALPr9j.feq
\\Ing08\DALPr9j.pek
\\Ing08\DALPr9j
\\Ing08\DALPr9j.feq
\\Ing08\DALPr9j.pek
\\Ing08\DALPr9j
See Folder pvstats_Pr9j

PVSTATS Statistical Analysis Results
 Devon Avenue Tributary
 Baseline (FEQ Models Used: DA_1LNG.FEQ, DA_1BIGr.FEQ)

Cross Section ID	Description	Station (ft)	Invert Elevation (ft-NAVD88)	PVS30 10-Year (ft-NAVD88)	PVS30 50-Year (ft-NAVD88)	PVS30 100-Year (ft-NAVD88)	PVS30 500-Year (ft-NAVD88)
XS_196	d/sf of Norwood Avenue (50: 1)	1668	701.79	712.10	712.27	712.42	712.79
XS_194	usf of Access Road (50: 8)	1396	700.27	710.49	710.76	711.14	711.92
XS_192	d/sf of Access Road (48: 1)	1337	699.95	710.45	710.68	710.93	711.46
XS_190	Approx 597 feet ds of Access Road (48: 5)	740	699.02	709.24	709.36	709.52	710.12
XS_188	usf of EOH - West (48: 12)	642	696.92	708.27	708.58	708.77	709.33
XS_186	U46 dsf of EOH - West Culvert (46: 1)	455	696.14	703.96	704.56	704.90	705.70
XS_184	222 feet ds of EOH - West Culvert (46: 6)	233	693.28	703.96	704.56	704.90	705.70
XS_182	294 feet ds of EOH - West Culvert (46: 9)	161	692.11	703.96	704.56	704.90	705.70
XS_180	D46 usf of Access Road (46: 13)	0	692.72	703.95	704.56	704.90	705.70
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F22	Pond us of I-290 (North)		692.12	693.32	694.46	695.53	699.93
F20	F20 Pond downstream of I-290 - North (0: F20)		691.52	692.32	692.84	693.36	695.32
XS_178	U44 dsf of Park Blvd. (44: 1)	8656	684.72	690.86	691.42	691.83	692.80
XS_178a	D44 10 feet ds pf Park Blvd. (expon 7) (44: 7)	8646	684.72	690.84	691.38	691.78	692.72
XS_176	U42 679 feet us of Stone Weir 2 (42: 1)	8392	687.75	689.45	689.84	690.17	691.08
XS_174	326 feet us of Stone Weir 2 (42: 4)	8039	687.69	689.45	689.83	690.16	691.08
XS_172	D42 us of Stone Weir 2 (42: 7)	7713	687.62	689.45	689.82	690.14	691.03
XS_170	U40 ds of Stone Weir 2 (40: 1)	7662	685.56	687.99	688.57	689.06	690.79
XS_170a	D40 usf Foot Bridge 2 (40: 4)	7653	685.56	687.99	688.57	689.06	690.79
XS_168	U38 dsf Foot Bridge 2 (38: 1)	7613	683.39	687.97	688.55	689.01	690.79
XS_168a	D38 40 feet ds of Foot Bridge 2 (expon 6) (38: 4)	7573	683.32	687.97	688.55	689.01	690.79
XS_166	U36 544 feet us of Stone Weir 1 (expon 6) (36: 1)	7252	683.22	687.97	688.55	689.00	690.79
XS_164	254 feet us of Stone Weir 1 (36: 4)	6962	682.72	687.97	688.54	688.96	690.79
XS_162	128 feet us of Stone Weir 1 (36: 7)	6836	682.22	687.97	688.53	688.85	690.79
XS_160	D36 us of Stone Weir 1 (36: 10)	6708	681.72	687.97	688.52	688.84	690.79
XS_158	U34 ds of Stone Weir 1 (34: 1)	6667	681.28	686.22	687.00	687.97	690.79
XS_158a	D34 usf of Foot Bridge 1 (34: 4)	6663	681.28	686.22	687.00	687.97	690.79
XS_156	U32 dsf of Foot Bridge 1 (32: 1)	6578	683.13	686.22	687.00	687.97	690.79
XS_156a	D32 75 feet ds of Foot Bridge 1 (expon 5) (32: 4)	6503	683.07	686.20	687.00	687.97	690.79
XS_154	U30 387 feet ds of Foot Bridge 1 (expon 5) (30: 1)	6191	683.02	686.20	687.00	687.97	690.79
XS_154a	D30 Confluence of South Branch (30: 4)	5973	683.02	686.20	687.00	687.97	690.79
XS_152	U28 usf of Weir (28: 1)	5972	683.02	686.20	687.00	687.97	690.79
XS_152a	D28 us stream of Weir (28: 7)	5448	683.02	686.20	687.00	687.97	690.79
F24	Pond us of Rohwing Road (IL 53) (0: F24)		710.82	712.16	712.64	712.98	714.03
XS_224	d/sf of Rohwing Road (IL 53) (62: 1)	12608	697.64	712.13	712.52	712.76	713.40
XS_222	Approx. 11 feet ds of Rohwing Road (IL 53) (62: 6)	12597	697.64	712.13	712.52	712.76	713.40
XS_220	Approx. 59 feet ds of Rohwing Road (IL 53) (62: 11)	12549	697.64	712.13	712.52	712.76	713.40
XS_218	Approx. 163 feet ds of Rohwing Road (IL 53) (62: 16)	12445	700.94	712.13	712.50	712.74	713.40
XS_216	Approx. 341 feet ds of Rohwing Road (IL 53) (62: 21)	12267	700.22	712.13	712.50	712.74	713.40
XS_214	Approx. 698 feet ds of Rohwing Road (IL 53) (62: 26)	11910	701.47	712.08	712.42	712.58	712.95
XS_212	Approx. 863 feet ds of Rohwing Road (IL 53) (62: 31)	11725	700.61	711.65	712.03	712.29	712.85
XS_210	Approx. 1,103 feet ds of Rohwing Road (IL 53) (62: 36)	11505	700.47	711.08	711.37	711.58	712.11
XS_210	Approx. 385 feet us of Unnamed Culv 1 (58: 1)	820	700.47	711.07	711.33	711.53	712.11
XS_208	Approx. 165 feet us of Unnamed Culv 1 (58: 8)	600	700.43	710.82	711.02	711.22	712.00

PVSTATS Statistical Analysis Results
 Devon Avenue Tributary
 Baseline (FEQ Models Used: DA_1LNG.FEQ, DA_1BIG.FEQ)

Cross Section ID	Description	Station (ft)	Invert Elevation (ft-NAVD88)	PVS30 10-Year (ft-NAVD88)	PVS30 50-Year (ft-NAVD88)	PVS30 100-Year (ft-NAVD88)	PVS30 500-Year (ft-NAVD88)
XS 204	ust of Unnamed Culv 1 (58: 14)	435	698.75	709.68	710.27	710.70	711.88
XS 206	dst of Unnamed Culv 1 (56: 1)	317	699.05	709.66	710.25	710.68	711.86
XS 202	ust of EOH - East (56: 4)	0	698.32	709.63	710.16	710.44	711.09
XS6401	dst of EOH - East (64: 1)	10864	697.72	708.55	709.10	709.43	710.19
XS6401	ust of HWY Ramp (64: 4)	10798	695.72	707.67	708.22	708.50	709.12
XS 210	U60 (60: 1)	11508	700.47	711.08	711.37	711.51	711.86
XS 202	D60 (60: 4)	11104	698.32	709.66	710.27	710.63	711.57
XS 338	Approx. 275 feet ds of Happy Acres Basin (314: 5)	3609	690.08	692.32	692.60	692.74	693.20
XS 336	Approx. 572 feet ds of Happy Acres Basin (314: 8)	3312	679.94				
XS 334	Approx. 794 feet ds of Happy Acres Basin (314: 13)	3090	680.72	692.34	692.80	693.04	693.58
XS2001	Approx. 804 feet ds of Happy Acres Basin (312: 1)	3080	663.68				
XS2001	Approx. 1166 feet ds of Happy Acres Basin (312: 7)	2718	683.18				
XS9024	Approx. 1088 feet us of Eastern Park Blvd - South (310: 1)	3089	685.53				
XS 332	Approx 931 feet us of Eastern Park Blvd - South (310: 7)	2712	665.35	691.61	691.85	692.20	693.44
XS 330	Approx 689 feet us of Eastern Park Blvd - South (310: 11)	2712	681.18	691.61	691.85	692.20	693.44
XS 328	Approx 468 feet us of Eastern Park Blvd - South (310: 15)	2555	680.40	691.41	691.85	692.20	693.44
XS 326	Approx 283 feet us of Eastern Park Blvd - South (310: 20)	2313	679.82	691.41	691.85	692.20	693.44
XS 324	D310 dst of Eastern Park Blvd - South (308: 1)	2092	679.44	691.40	691.85	692.20	693.44
XS 322	53 feet DS of Eastern Park Blvd south(308: 5)	1907	680.66	691.40	691.85	692.20	693.44
XS 320	D308 ust of Thorndale Ave (308: 9)	1624	679.67	691.40	691.85	692.20	693.44
XS 318	53 feet DS of Park Blvd south(308: 5)	1465	680.41	691.39	691.82	692.16	693.44
XS 316	D308 ust of Thorndale Ave (308: 9)	1384	680.41	691.33	691.76	692.00	693.44
XS 314	U308 dst of Thorndale Ave (306: 1)	1232	678.84	690.62	691.12	691.43	693.05
XS 312	D306 ust of a culvert located 7 feet DS of Thorndale Ave. (306: 5)	1188	678.87	690.62	691.12	691.43	693.05
XS 310	U304 dst of a culvert located 7 feet DS of Thorndale Ave. (304: 1)	1131	678.57	689.97	690.20	690.35	692.63
XS 308	56 feet ds of a culvert located 7 feet DS of Thorndale Ave(304: 4)	1034	678.48	689.53	689.96	690.27	692.63
XS 306	D304 ust of Park Blvd. (304: 7)	959	678.57	689.43	689.93	690.26	692.63
XS 304	U302 dst of Park Blvd. - North (302: 1)	834	677.42	688.71	688.89	689.77	692.41
XS 302	D302 ust of Driving Range Culvert (302: 6)	731	677.35	686.96	688.59	689.77	692.41
XS3018	U300 dst of Driving Range Culvert (300: 1)	750	677.35	686.94	688.59	689.77	692.41
XS3018a	550 feet ds of Driving Range Culvert (300: 5)	200	675.60	686.93	688.59	689.77	692.41
XS3412	554 feet ds of Driving Range Culvert (300: 8)	196	675.60	686.92	688.59	689.76	692.38
XS3412a	D300 Confluence of South Branch (599 feet ds of Driving Range Culvert) (300: 12)	151	673.02	686.20	686.96	687.83	690.61
XS 148	U26 ds stream of Weir(32) (26: 1)	5401	682.09	686.20	687.00	687.97	690.79
XS 146	D26 ust of Pierce Rd. (26: 4)	5373	682.07	686.20	686.99	687.97	690.79
XS 144	U24 dst of Pierce Rd. (24: 1)	5225	683.15	686.17	686.93	687.97	690.79
XS 144a	D24 30 ds of Pierce Rd. (Expon 4) (24: 4)	5195	683.02	686.16	686.93	687.97	690.79
XS 142	U22 59 feet ds of Pierce Rd (Expon 4) (22: 1)	5166	682.92	686.16	686.93	687.97	690.79
XS 142a	184 feet ds of Pierce Rd (22: 6)	5041	682.92	686.16	686.93	687.97	690.79
XS 140	557 feet ds of Pierce Rd (22: 11)	4668	682.92	686.16	686.93	687.97	690.79