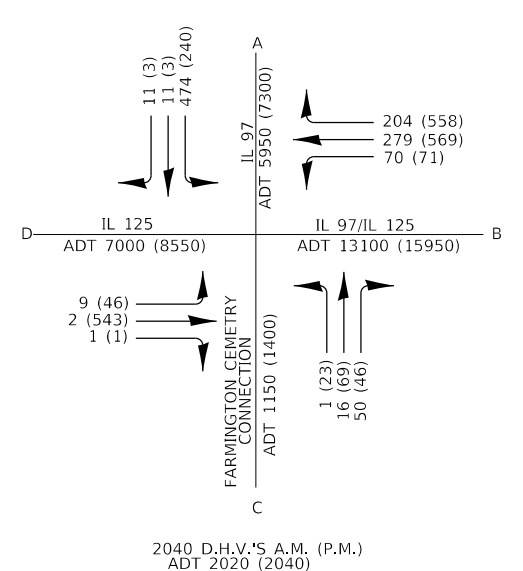




PROP. CURVE IL971
PI STA. = 608+70.04
 $\Delta = 3^\circ 45' 04''$ (RT)
 $D = 0^\circ 17' 11''$
R = 20,000.00'
T = 654.94'
L = 1,309.42'
E = 10.72'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 602+15.09
P.T. STA. = 615+24.51

APPROVED _____ REGIONAL ENGINEER _____ DATE _____

2/18/2019
px\planfromdot\Illinois.gov\PIVOT\Documents\IDOT - Offices\District 6\Projects\692621\CADD\Detail\Geometrics\692621-Final_DS.dgn
PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

SIGNALIZED CAPACITY DESIGN ANALYSIS																		
PROGRAM USED: <u>HCS STREETS, VERSION: 7.5</u>					SIGNAL TYPE: <u>ACTUATED</u>					AREA TYPE: <u>NON-CBD</u>								
NUMBER OF PHASES: <u>5 (A.M.), 5 (P.M.)</u>					CYCLE LENGTH: <u>54.4 SEC (A.M.), 52.3 SEC. (P.M.)</u>					PEAK HOUR FACTOR: <u>0.90</u>								
INTERSECTION DELAY: <u>20.3 SECONDS (A.M.), 14.8 SECONDS (P.M.)</u>					LEVEL-OF-SERVICE: <u>C (A.M.) , B (P.M.)</u>													
APPROACH		EASTBOUND				WESTBOUND				NORTBOUND				SOUTHBOUND				
LANE GROUP		LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	
NUMBER OF LANES		1	2	1		1	2	1		1	1	1		2	1	1		
<u>2040 30TH</u> MAX. HOUR TRAFFIC (veh/h)	A.M.	9	543	1		70	279	204		1	16	50		474	11	11		
	P.M.	46	410	1		71	569	558		23	69	46		240	3	3		
BASE SATURATION FLOW RATE (veh/h)		1900	1900	1900		1900	200	1900		1900	1900	1900		1900	1900	1900		
LANE WIDTH (FT)		14	12	12		14	12	16		12	12	12		12	12	12		
VOLUME OF RIGHT TURN ON RED (veh/h)		A.M.	1		P.M.	1	A.M.	20	P.M.	56	A.M.	5	P.M.	5	A.M.	1	P.M.	1
PEDESTRIANS/HOUR (ped/h)		A.M.	0		P.M.	0	A.M.	0	P.M.	0	A.M.	0	P.M.	0	A.M.	0	P.M.	0
ARRIVAL TYPE		3				3				3				3				
LANE UTILIZATION ADJ. FACTOR		1.000	0.952	1.000		1.000	0.952	1.000		1.000	1.000	1.000		1.000	1.000	1.000		
GREEN TIME (SECONDS)	A.M.	12.8	11.6	15.7		15.7	14.9	25.5		4.1	4.1	8.2		10.6	10.6	11.4		
	P.M.	16.0	12.9	18.8		16.9	13.8	19.7		5.9	5.9	9.9		5.9	5.9	9.0		
GREEN RATIO (g/C)	A.M.	0.23	0.21	0.21		0.29	0.27	0.27			0.07	0.07			0.19	0.19		
	P.M.	0.31	0.25	0.35		0.33	0.27			0.10	0.10	0.18		0.11	0.11	0.17		
CAPACITY (c) (veh/h)	A.M.	340	761	457		312	977	743		133	139	239		346	347	333		
	P.M.	305	895	563		411	960			185	195	291		204	204	278		
v/c RATIO (X)	A.M.	0.029	0.793	0.002		0.250	0.317	0.000		0.008	0.128	0.232		0.760	0.794	0.037		
	P.M.	0.168	0.509	0.002		0.192	0.658			0.138	0.394	0.176		0.654	0.670	0.012		
BACK OF QUEUE, Q (ft/ln)	A.M.	2	74.8	0.2		14.2	30.1	0		0.3	4.7	13.2		67.5	73.5	2.5		
	P.M.	8.1	45.7	0.2		12.1	64.6			6	18.6	10.6		33.7	34.8	0.7		
CONTROL DELAY, d (s/veh)	A.M.	16.3	21.2	13.8		15.3	15.8	0.00		23.3	23.7	20.5		22.1	23.3	17.1		
	P.M.	13.9	17.1	11.1		12.8	17.4	0.00		21.5	22.4	18.2		23.5	23.7	17.9		
LANE GROUP LEVEL-OF-SERVICE	A.M.	B	C	B		B	B	B		C	C	C		C	C	B		
	P.M.	B	B	B		B	B	A		C	C	B		C	C	B		
APPROACH DELAY (SECONDS/VEHICLE)	A.M.	21.1				15.7				21.3				22.6				
	P.M.	16.8				10.9				20.9				23.5				
APPROACH LEVEL-OF-SERVICE	A.M.	C				B				C				C				
	P.M.	B				B				C				C				

ELEMENTS CONTROLLING DESIGN

PREFERRED ROUTE:
KEY ROUTE NUMBER: FAP 67 MARKED ROUTE NUMBER: IL 125 (WEST LEG)/IL 97 (EAST LEG)
STREET NAME: N/A SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: MINOR NON-URBAN ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 13,100 VPD DESIGN YEAR ADT: 15,950 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

SECONDARY ROUTE:
NORTH LEG:
KEY ROUTE NUMBER: FAP 34 MARKED ROUTE NUMBER: IL 97
STREET NAME: N/A SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 5,950 VPD DESIGN YEAR ADT: 7,300 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

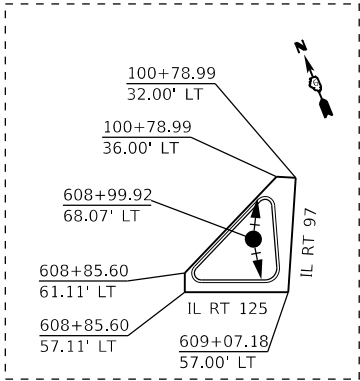
SOUTH LEG:
KEY ROUTE NUMBER: N/A MARKED ROUTE NUMBER: N/A
STREET NAME: FARMINGDALE RD. CONNECTOR SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: LOCAL ROAD OSOW DESIGN (Y/N): NO
EXISTING ADT: N/A VPD DESIGN YEAR ADT: N/A VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

IMPROVEMENT TYPE: NEW CONSTRUCTION ANTICIPATED YEAR OF CONSTRUCTION: 2020
EXISTING METHOD OF TRAFFIC CONTROL: SIGNALS PROPOSED METHOD: SIGNALS
DESIGN VEHICLE(S): WB-65
DESIGN YEAR: 2040, WHICH IS A 20 YEAR DESIGN.
TRUCK ROUTE DESIGNATION: PREFERRED ROUTE: CLASS II SECONDARY ROUTE: CLASS II (NORTH LEG)
DESIGN CRITERIA: NEW CONSTRUCTION/NEW EXPRESSWAY

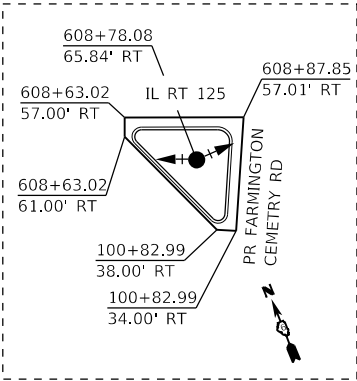
GENERAL NOTES
ARE PROFILES PROVIDED (Y/N): YES IF NOT STATE WHY: N/A
TYPE N/A CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY SHOULDERS, UNLESS OTHERWISE NOTED.
TYPE N/A CURB AND GUTTER ON THE APPROACH MEDIAN, UNLESS OTHERWISE NOTED.
TYPE M-6.06 CURB AND GUTTER ON THE CORNER ISLANDS, UNLESS OTHERWISE NOTED.
ALL DIMENSIONS ARE E-E, UNLESS OTHERWISE NOTED.
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 9.0.1.
THE SCOPE OF WORK: CONSTRUCT NEW EXPRESSWAY ON NEW ALIGNMENT ON FAP 67 FROM WEST OF 97/IL 125 JUNCTION TO KOKE MILL RD. IN SPRINGFIELD, INCLUDING A NEW CONNECTOR ROAD FROM IL 97 INTERSECTION TO FARMINGDALE RD.

INTERSECTION DESIGN EXCEPTIONS: _____
ADDITIONAL NOTES: _____

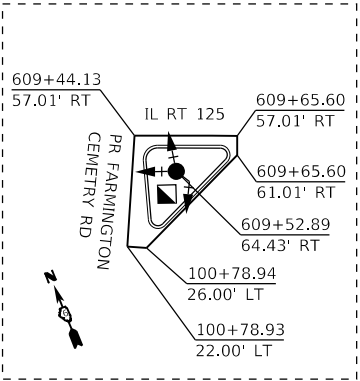
PHASE		1			2			3			4			5			CYCLE LENGTH
				 YELLOW RED			 YELLOW RED			 YELLOW RED			 YELLOW RED			 YELLOW RED	
GREEN TIME IN SECONDS	A.M.	0.8	4.0	2.0	3.3	4.0	2.0	11.6	4.0	2.0	10.6	4.0	2.0	4.1	4.0	2.0	54.2 SEC
	P.M.	3.1	4.0	2.0	0.9	4.0	2.0	12.9	4.0	2.0	5.9	4.0	2.0	5.4	4.0	2.0	52.3 SEC



DETAIL A



DETAIL B



DETAIL C

INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97 / 125)
FAP ROUTE 34 WITH (IL ROUTE 97)

SEC. NO. S(X) & W(X, TS)

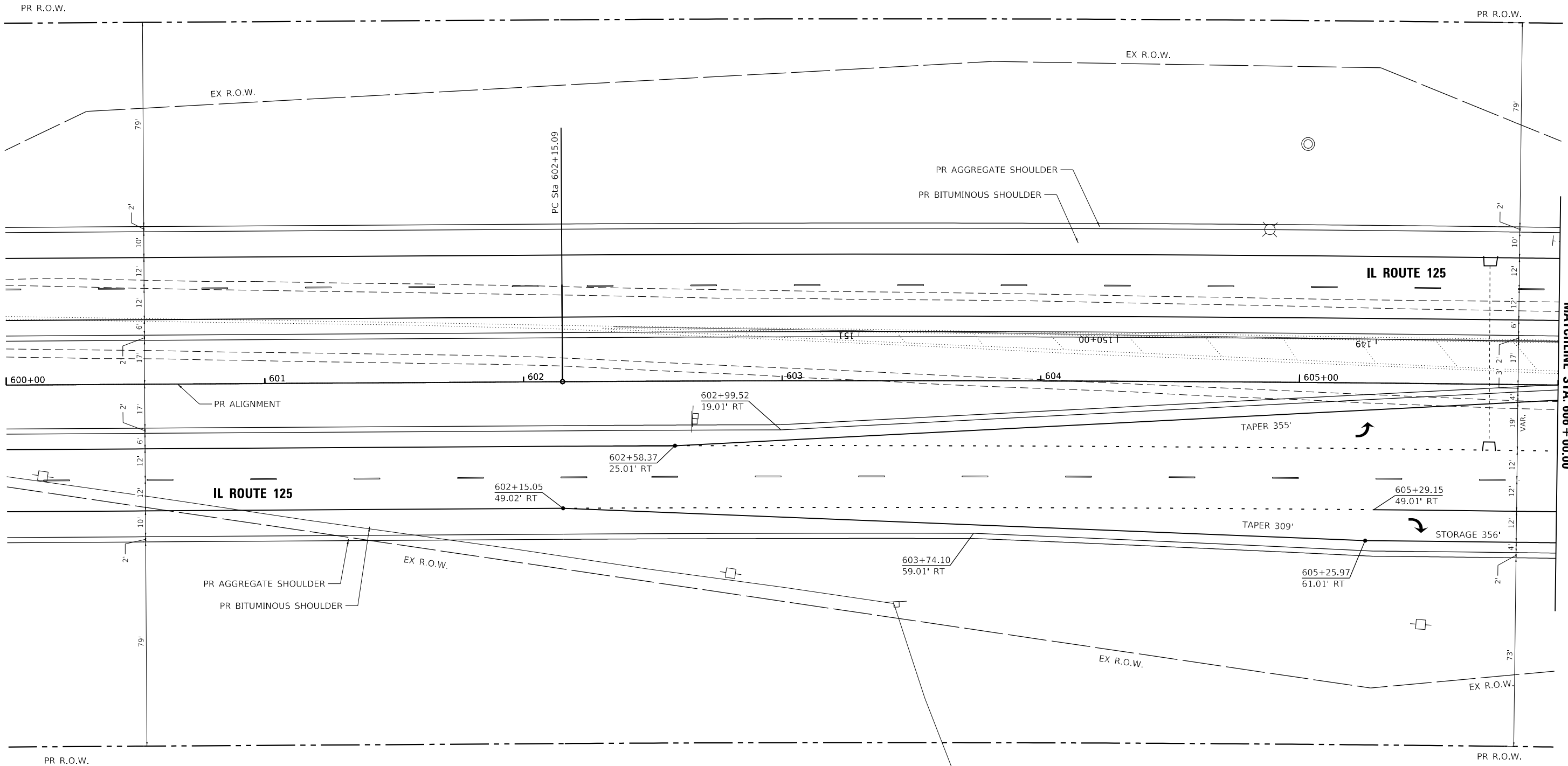
SCALE 1"=20'

COUNTY SANGAMON

SIN : _____

PROJ. NO. D692621

PLOT DATE = 2/18/2019
FILE NAME = p:\projects\692621\CD\Drawings\692621-IL\692621-IL.dgn
PLOT SCALE = 40,000' / in.
USER NAME = shahm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97 / 125)
FAP ROUTE 34 WITH (IL ROUTE 97)

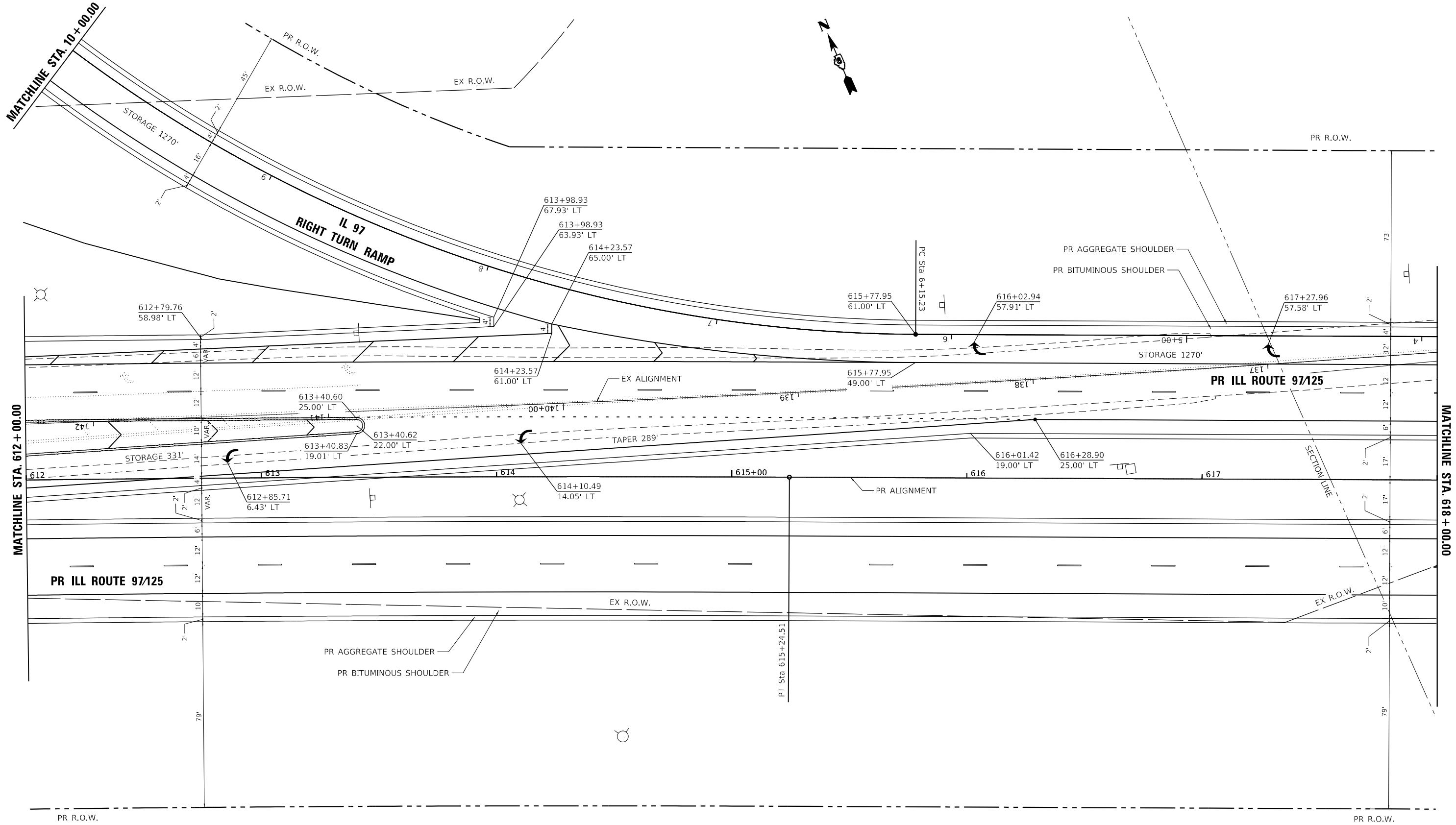
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : _____ PROJ. NO. D692621

I.D.S. SHEET 3 OF 21

PLOT DATE = 2/18/2019
FILE NAME = p:\projects\692621\CD\692621\CD\692621-Final.DS.dgn
PLOT SCALE = 40.0000' / in.
USER NAME = shahdm



INTERSECTION DESIGN STUDY

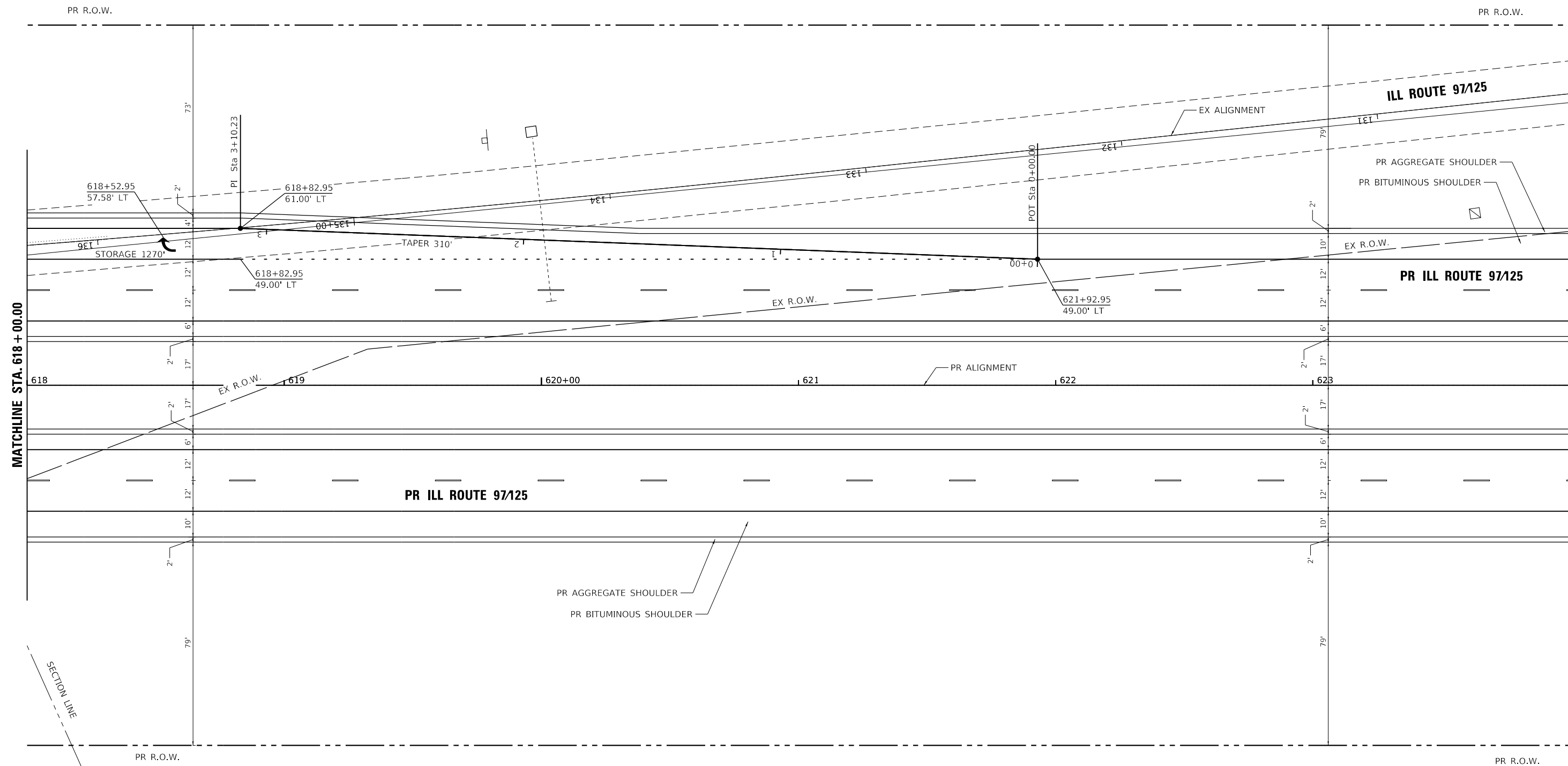
FAP ROUTE 67 (NEW IL ROUTE 97 / 125)
FAP ROUTE 34 WITH (IL ROUTE 97)

SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : _____ PROJ. NO. D692621

I.D.S. SHEET 4 OF 21



INTERSECTION DESIGN STUDY

FAP ROUTE 67	(NEW IL ROUTE 97 / 125)
FAP ROUTE 34	WITH (IL ROUTE 97)

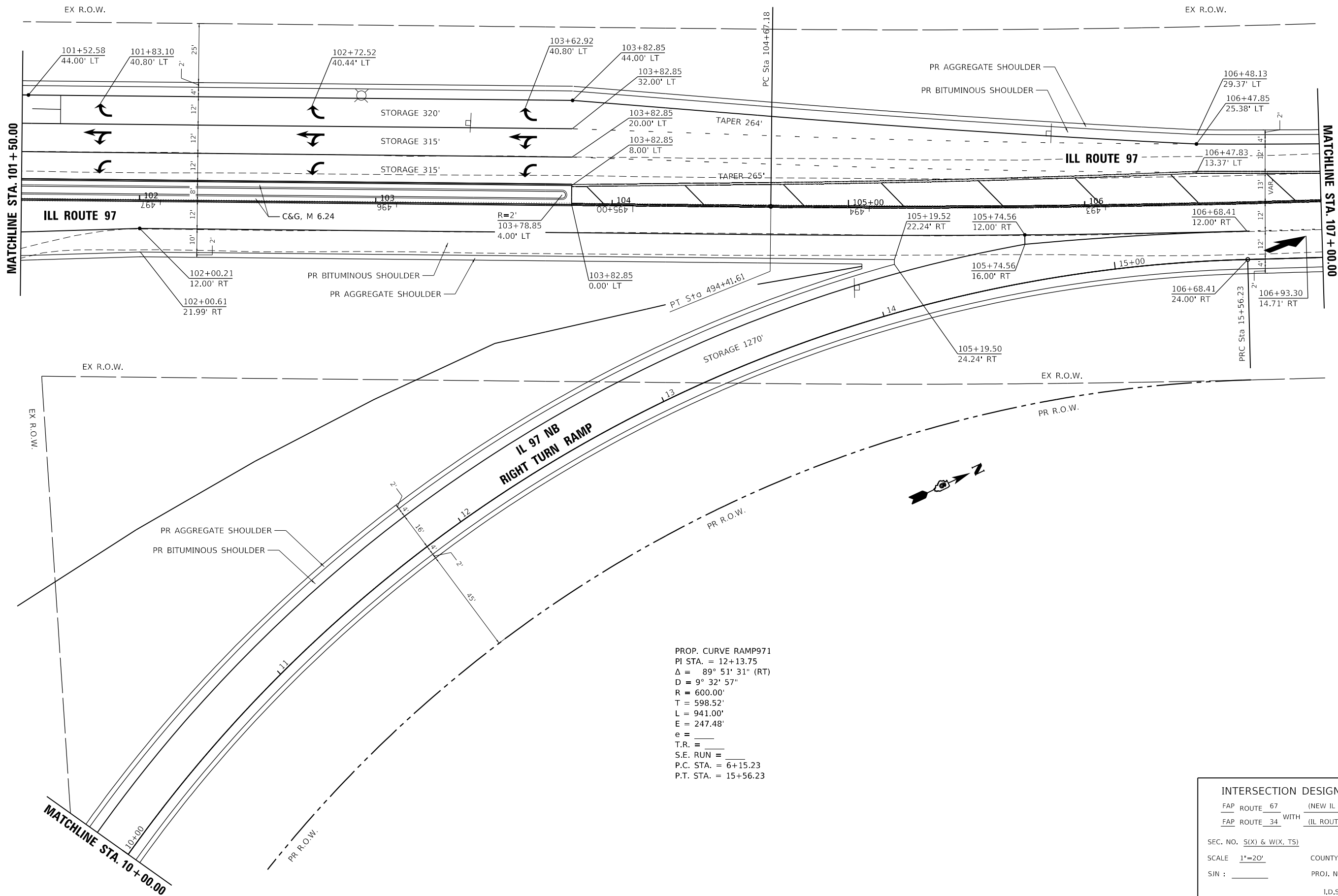
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

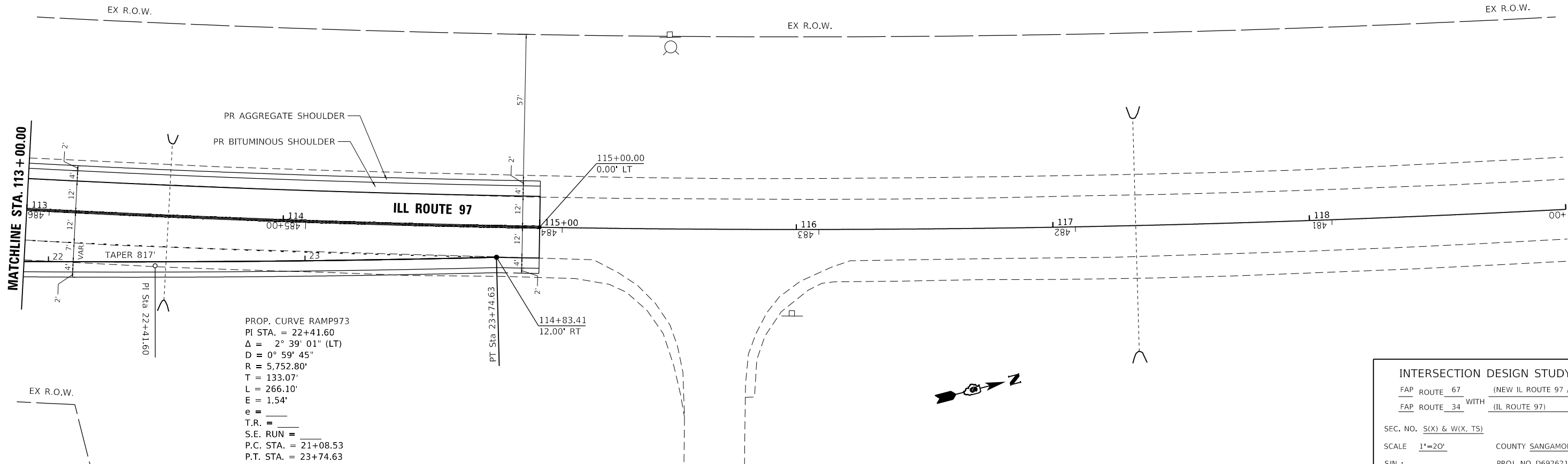
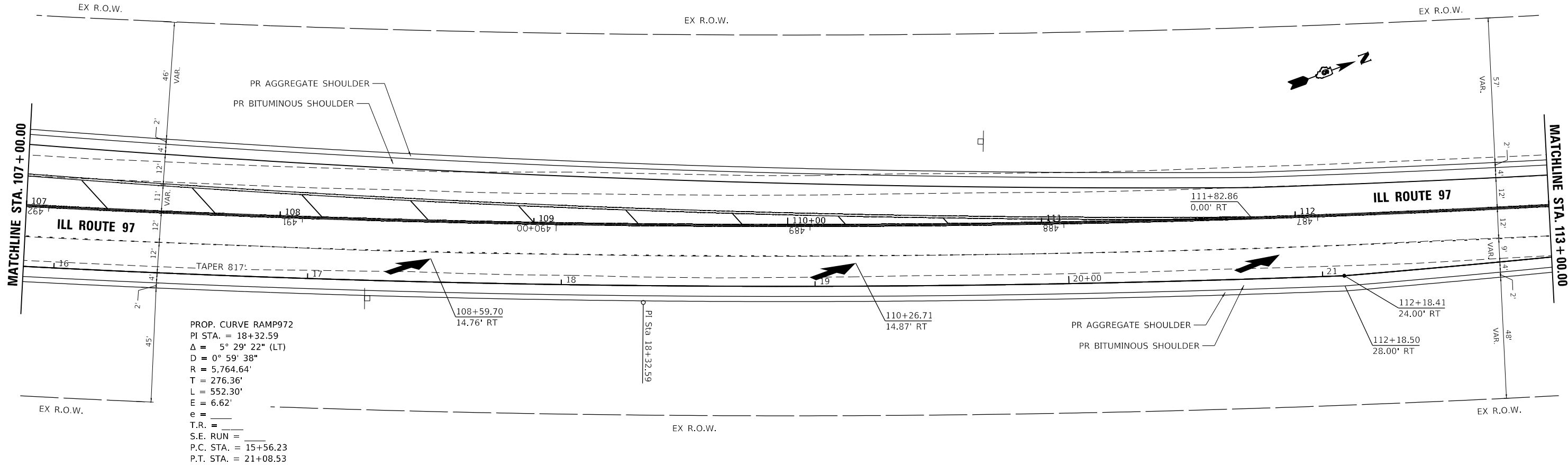
SJN : PROJ. NO. D692621

I.D.S. SHEET 5 OF 21

PLOT DATE = 2/18/2019
FILE NAME = p:\s\planroom\dot\illinois.gov\PI\DOT\Documents\IDOT - Offices\District 6\Projects\0692621\CAD\Drawings\0692621-Final_IDS.dgn
PLOT SCALE = 40.0000' / in.
USER NAME = shahdm



PLOT DATE = 2/18/2019
FILE NAME = p:\p1\planroom\dot\illinois\pwr\WIDOT\Documents\IDOT - Offices\District 6\Projects\0692621\CADData\Geometrics\0692621-Final IDS.dgn
PLOT SCALE = 40.0000' / in.
USER NAME = shahdm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97 / 125)

FAP ROUTE 34 WITH (IL ROUTE 97)

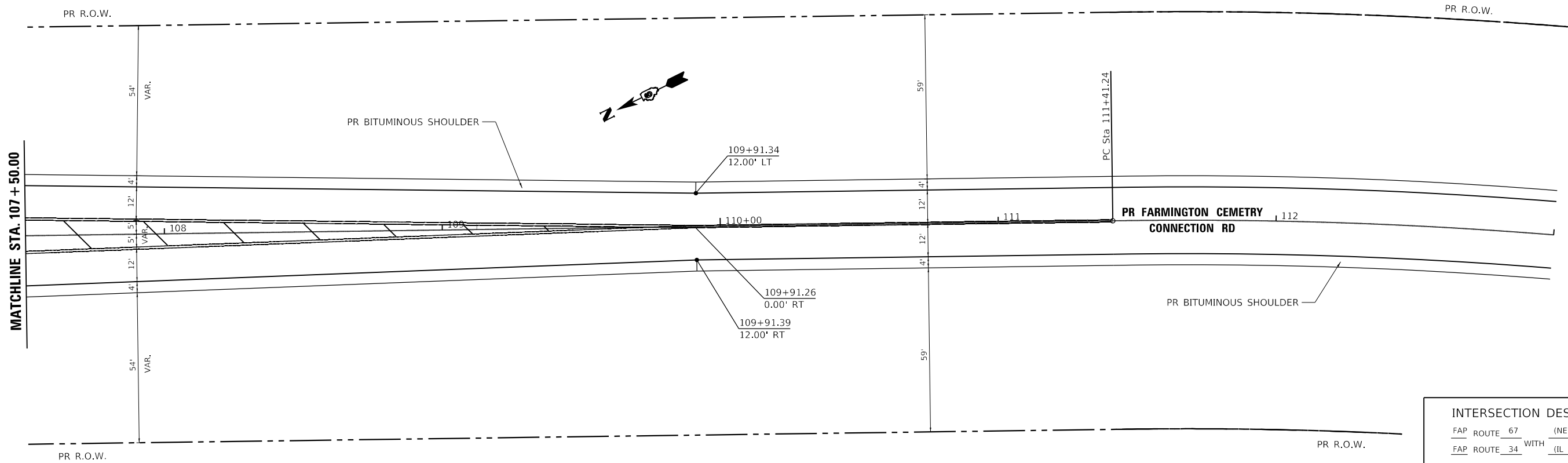
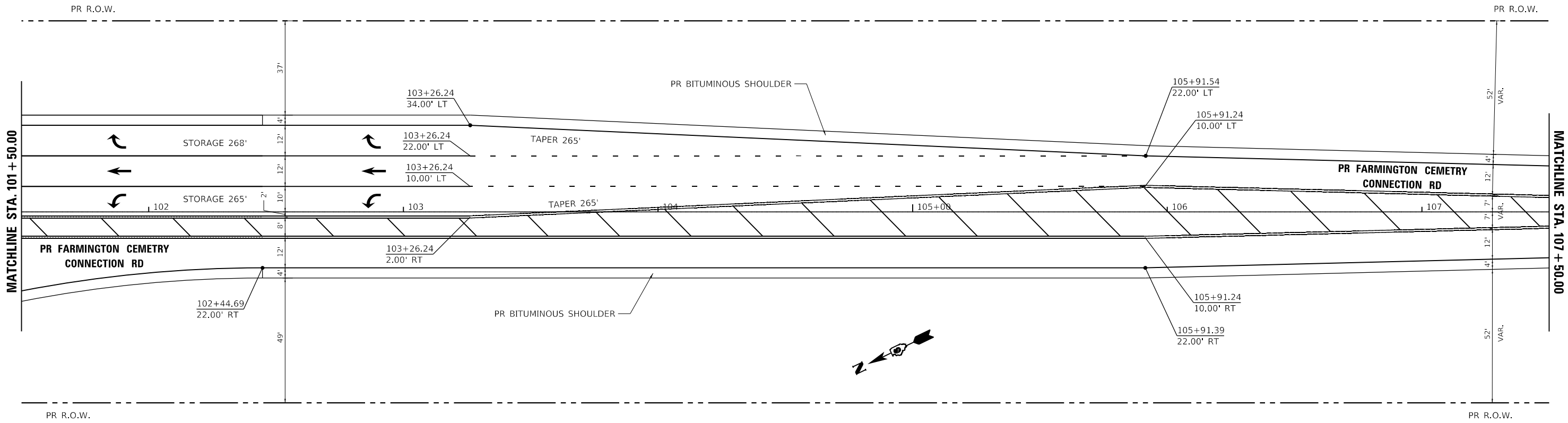
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : PROJ. NO. D692621

I.D.S. SHEET 7 OF 21

2/18/2019
pxv\planroom\dot\Illinois.gov\PWIDOT\Documents\IDOT - Offices\District 6\Projects\0692621\CAD\Data\Geometrics\0692621-Final IDS.dgn
40.0000' / in.
shahdm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97 / 125)
FAP ROUTE 34 WITH (IL ROUTE 97)

SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : PROJ. NO. D692621

I.D.S. SHEET 8 OF 21

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHKD _____		

[illegible]

PR PROFILE IL 97/125				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	11
		CONTRACT NO. 92621		
ILLINOIS		FED. AID PROJECT		

PROFILE	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHKD _____		

PR IL 97 / 125 PROFILE

EX GROUND PROFILE

+00.00 EL. 552.00

+50.00 EL. 549.25

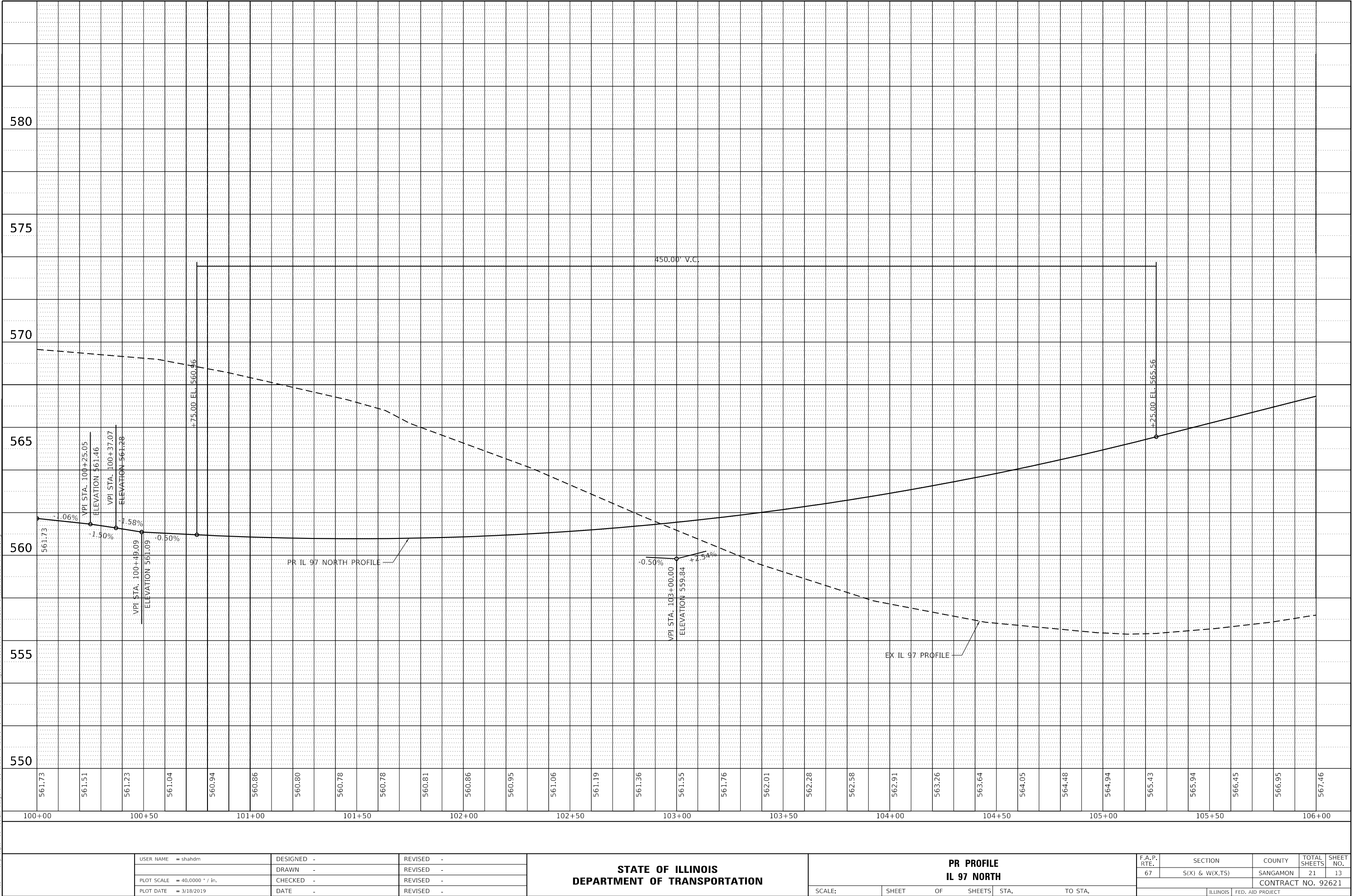
Station	Proposed Road Profile (EL)	Existing Ground Profile (EL)
619+50	552.32	534.5
620+00	552.00	535.5
620+50	551.80	533.5
621+00	551.50	532.5
621+50	551.20	532.0
622+00	551.00	541.5
622+50	550.80	541.0
623+00	550.50	540.5
623+50	550.30	540.5
624+00	550.00	540.0
624+50	549.80	540.0
625+00	549.50	540.0
625+50	549.30	540.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	12
		CONTRACT NO. 92621		
ILLINOIS		FED. AID PROJECT		

PLAN	NO.	NOTE BOOK	SURVEYED PLOTTED	ALIGNMENT CHECKED PLOTTED	BY	DATE

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

MODEL: Default
FILE NAME: p:\1\planroom\dot\allinois\gov\PIV\DOT Documents\DOT Offices\District 6\Projects\DOT92621\CAD\Bata\Geometrics\DOT92621-Final\IDS.dgn



	USER NAME	= shahdm	DESIGNED	-
			DRAWN	-
	PLOT SCALE	= 40,0000 ' / in.	CHECKED	-
	PLOT DATE	= 3/18/2019	DATE	-
			REVISED	-
			REVISED	-
			REVISED	-
			REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE IL 97 NORTH				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	13
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY _____
CADD FILE NAME _____

NOTE BOOK
NO. _____

BY _____
DATE _____

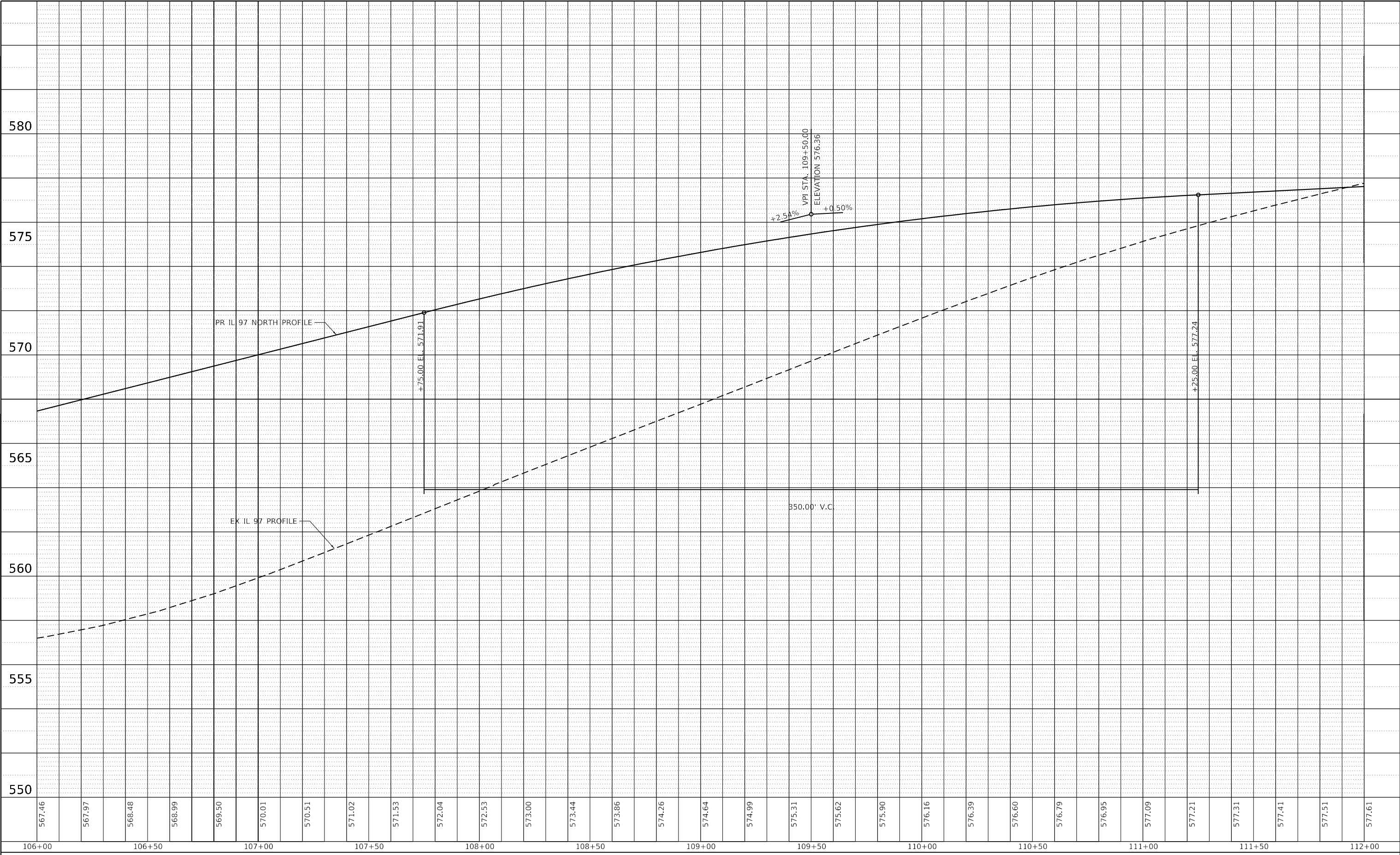
PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
BY _____
STRUCTURE NOTATIONS CHNG _____

NOTE BOOK
NO. _____

BY _____
DATE _____

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\illinois\gov\PIVDOT\Documents\DOT Offices\District 6\Projects\0695621\Cadd\Data\Geometrics\0695621-Final\IDS.dgn



USER NAME	= shahdm	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 3/18/2019	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

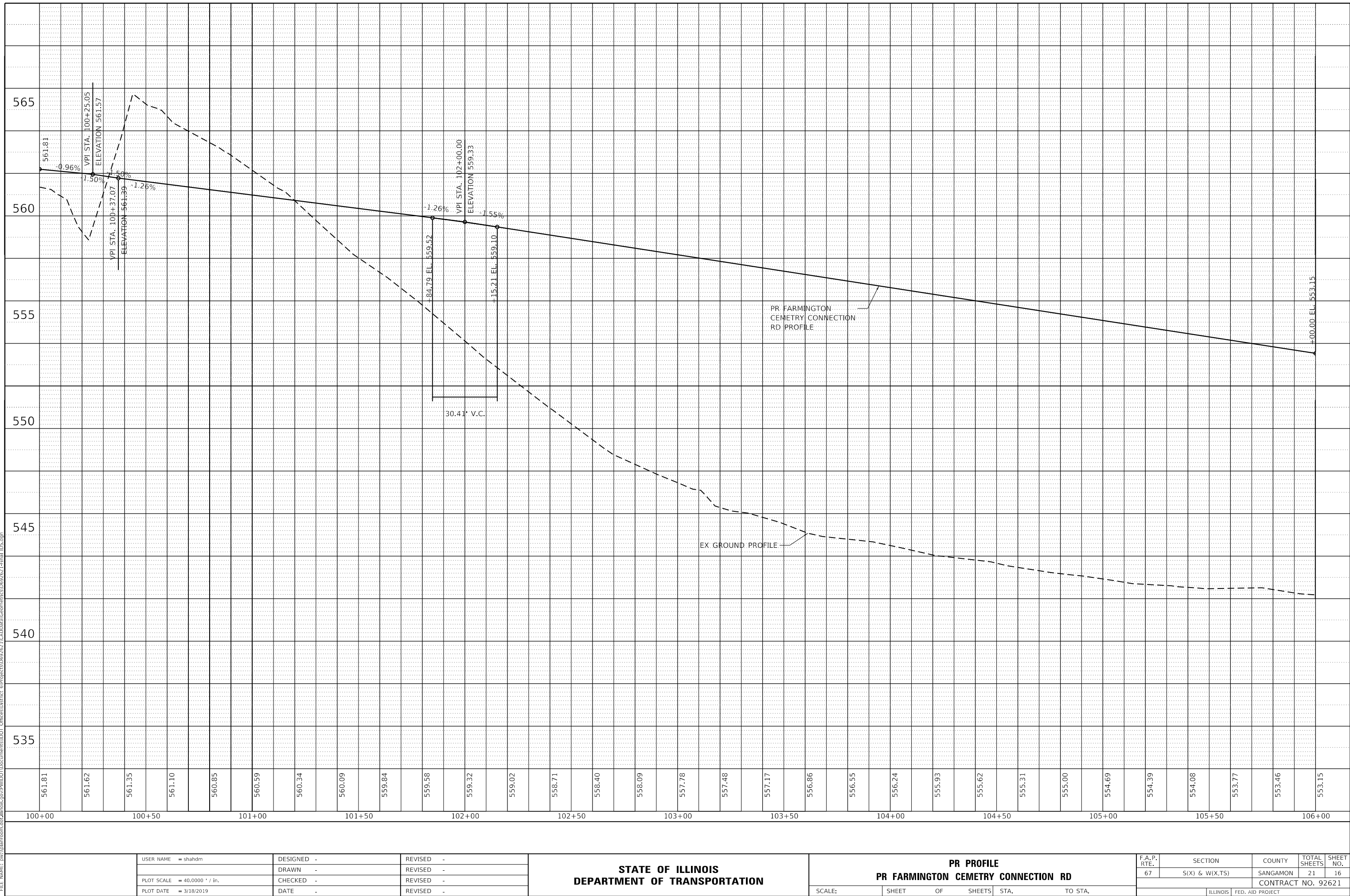
PR PROFILE IL 97 NORTH		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
---------------------------	--	--------	-------	----	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	14
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ CADD FILE NAME _____		
NOTE BOOK			
NO. _____			

PROFILE		BY	DATE
NOTE BOOK NO. _____	SURVEYED _____		
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
	STRUCTURE NOTATIONS CHK'D _____		

MODEL: Default	NO. _____	STRUCTURE NOTAMS CHKD _____
FILE NAME: pw:\planroom.doi\illinois.gov\PW\DOT\Documents\DOT Offices\District 6\Projects\D69262\1 CADDData\Geometrics\D69262\1-Final_IDS.dgn		



PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY _____
DATE _____
NOTE BOOK
NO. _____
CADD FILE NAME

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
BY _____
DATE _____
NOTE BOOK
NO. _____
STRUCTURE NOTATION CHNG



MODEL: Default
FILE NAME: p:\1\planroom.dwg
C:\Illinois\gov\PIV\DOT\Documents\DOT - Offices\District 6\Projects\0695621\0695621-Final\1D5.dgn

USER NAME	= shahdm	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 3/18/2019	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

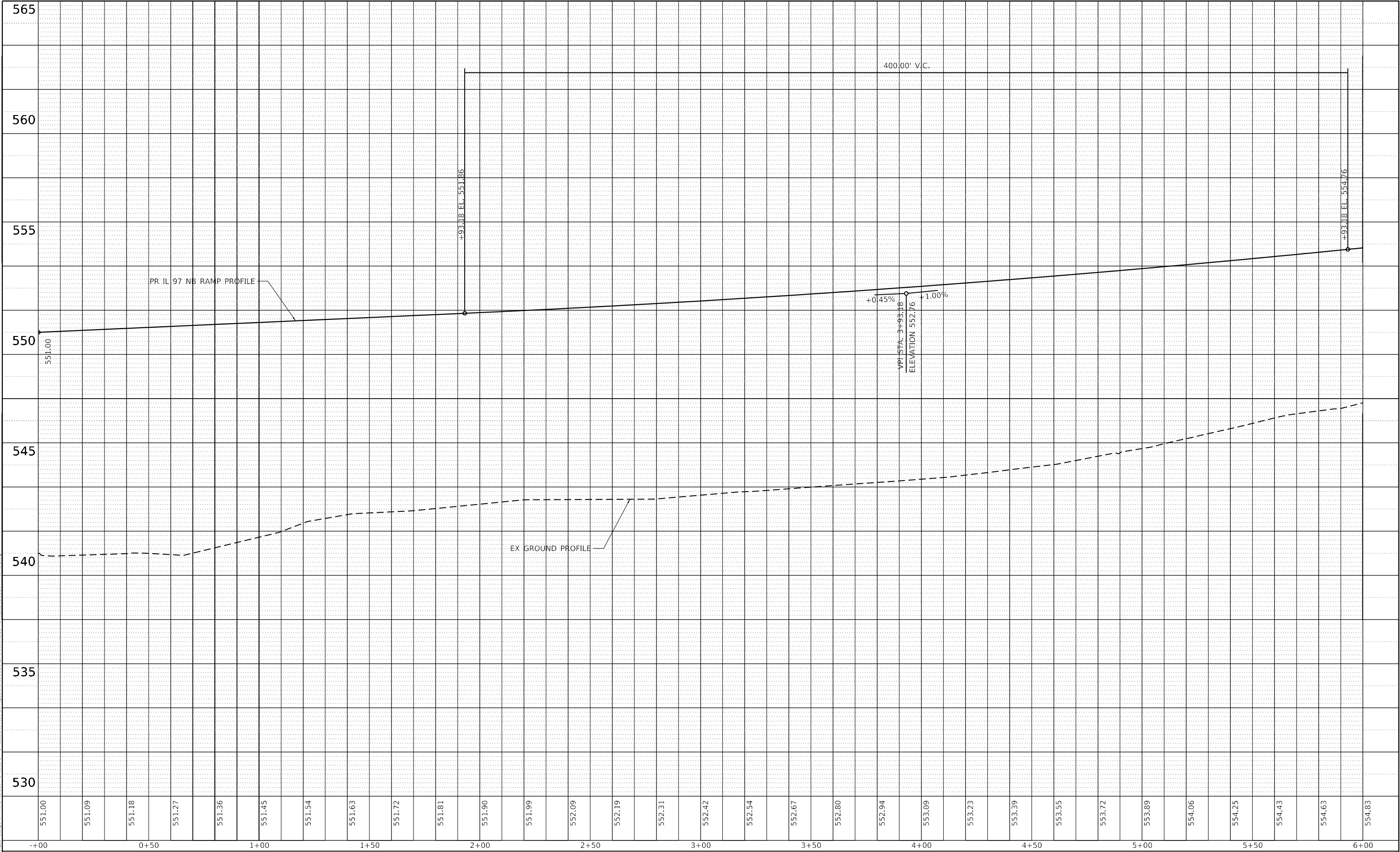
PR PROFILE PR FARMINGTON CEMETRY CONNECTION RD			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	17
CONTRACT NO. 92621				
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\illinois\gov\PIVDOT\Documents\DOT Offices\District 6\Projects\0692621\Cadd\Data\Geometrics\0692621-Final\IDS.cgm



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

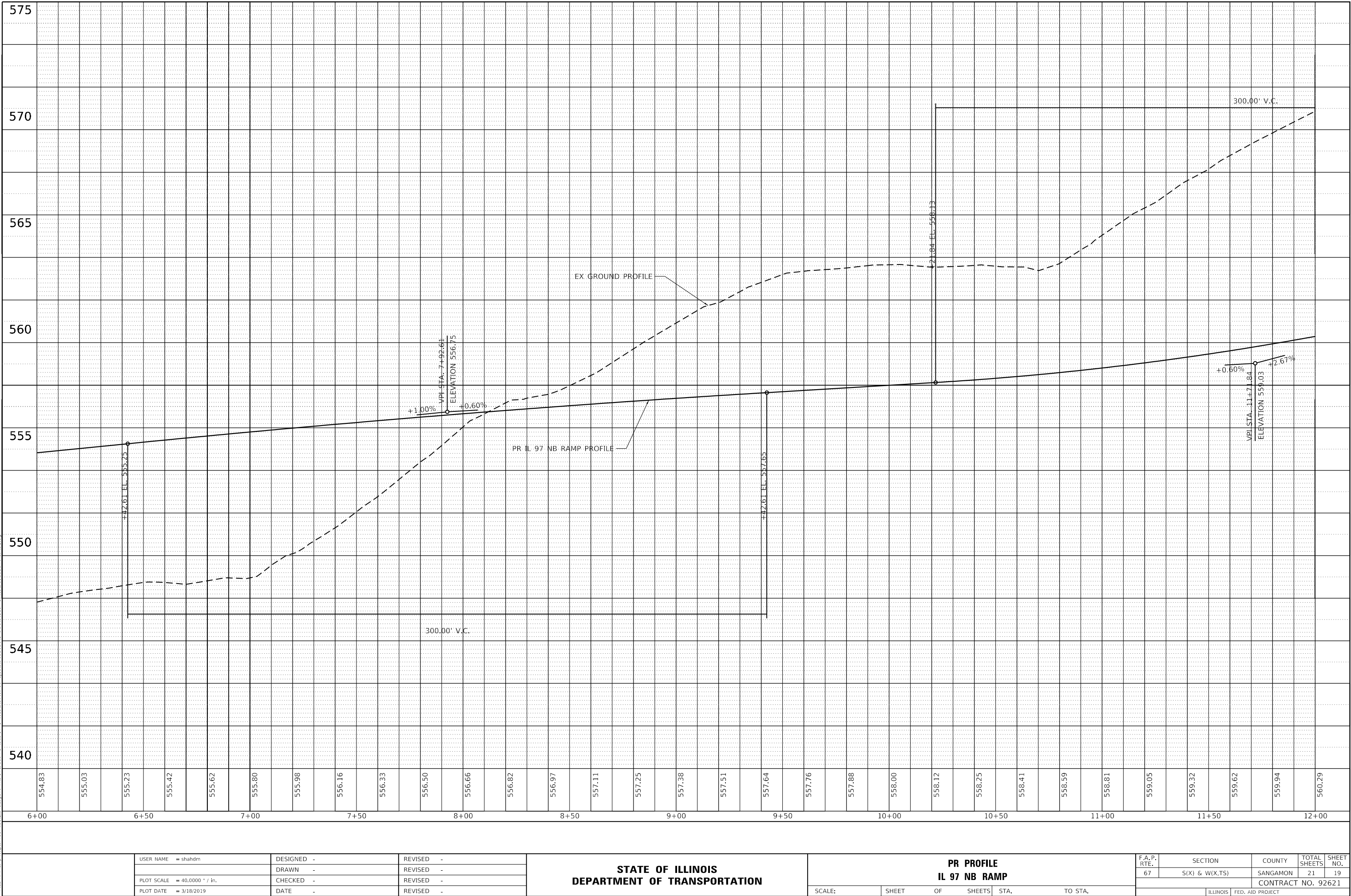
PR PROFILE IL 97 NB RAMP			
SCALE:	SHEET	OF	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	18
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

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

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

MODEL: Default
FILE NAME: p:\1\blanroom.dwg
C:\Users\shahdm\Documents\DOT Office\District 6\Projects\ID692621\Cadd\Data\Geometrics\ID692621-Final\ID5.dgn



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

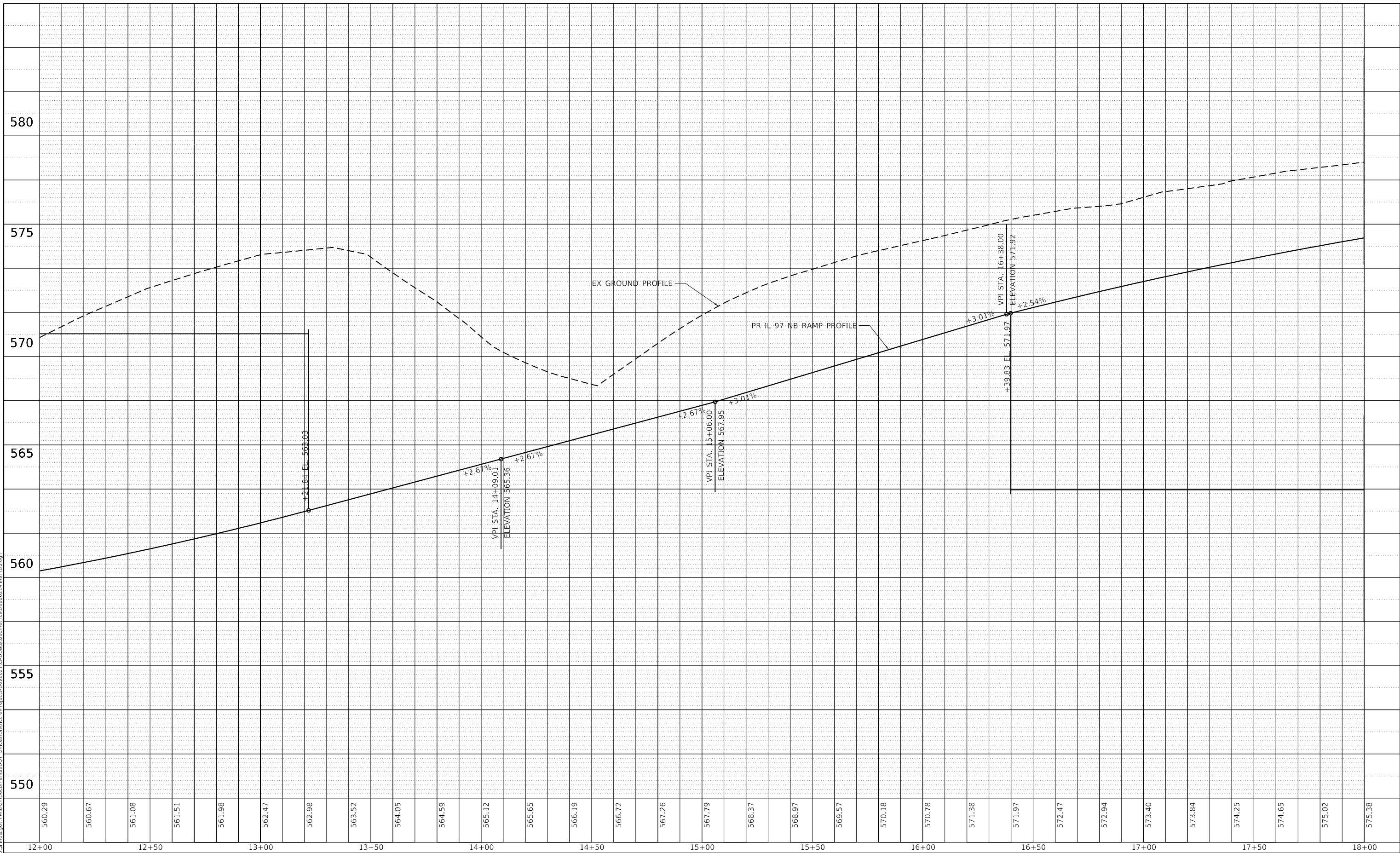
PR PROFILE IL 97 NB RAMP			
SCALE:	SHEET	OF	SHEETS
TO STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	19
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ CADD FILE NAME _____		
NOTE BOOK			
NO. _____			

PROFILE		BY	DATE
NOTE BOOK NO. _____	SURVEYED _____		
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
	STRUCTURE NOTATIONS CHK'D _____		

MODEL: Default	NO. _____	STRUCTURE NOTATION: CHKD _____
FILE NAME: pw:\planroom.doi\illinois.gov\PIWIDOT\Documents\IDOT_Offices\District_6\Projects\D69262\1-CADDData\Geometrics\D69262-1-Final_IDS.dgn		



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PR PROFILE
IL 97 NB RAMP

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
--------	-------	----	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	20
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY _____
NO. _____
CADD FILE NAME _____

BY

DATE

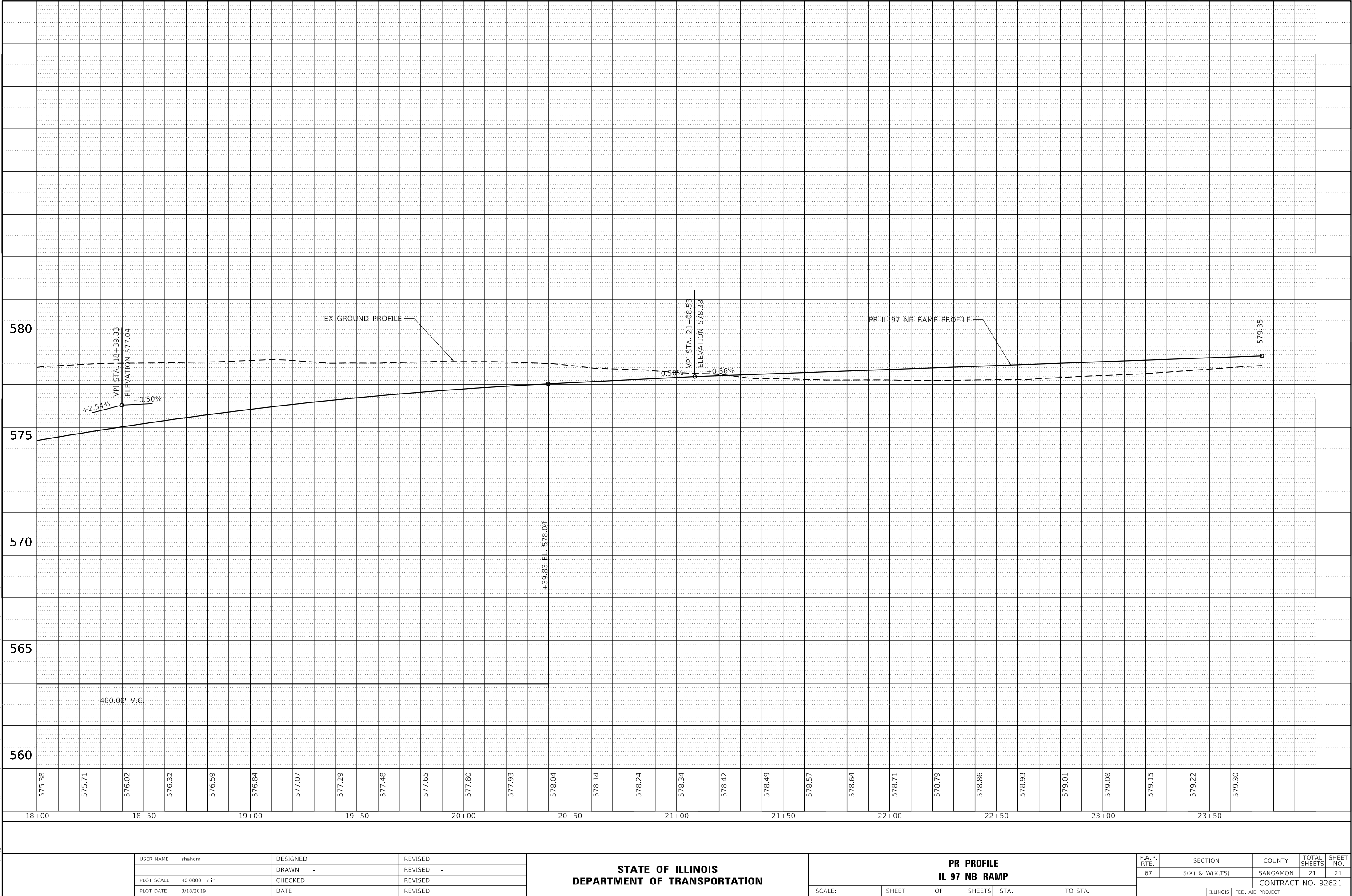
PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NOTATIONS CHNG
BY _____
NO. _____

BY

DATE

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\illinois\gov\PI\DOT Documents\DOT - Offices\District 6\Projects\0692621\cadd\data\Geometrics\0692621-final\IDS.dgn



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

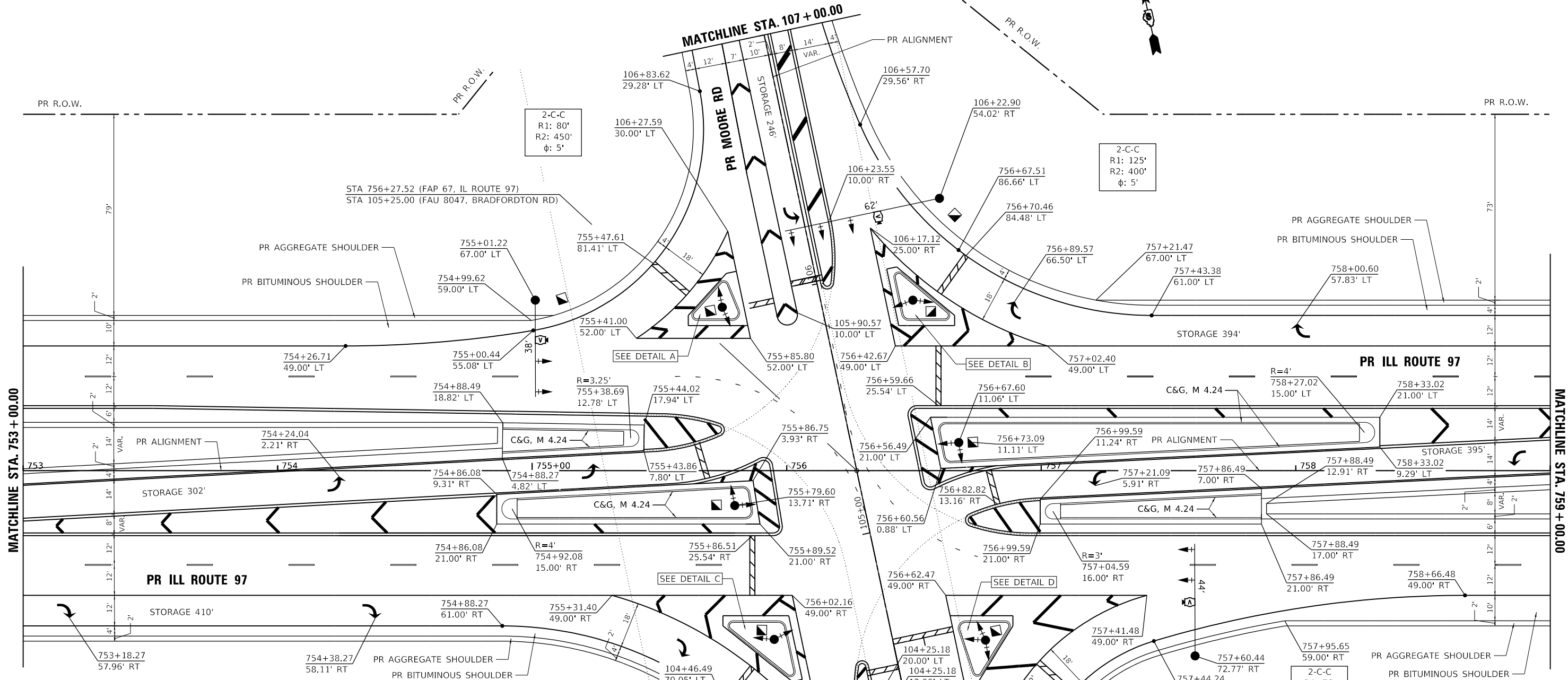
PR PROFILE IL 97 NB RAMP			
SCALE:	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	21	21
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

2/18/2019
PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

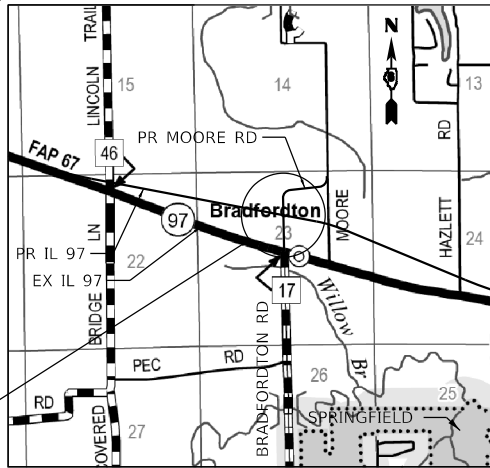
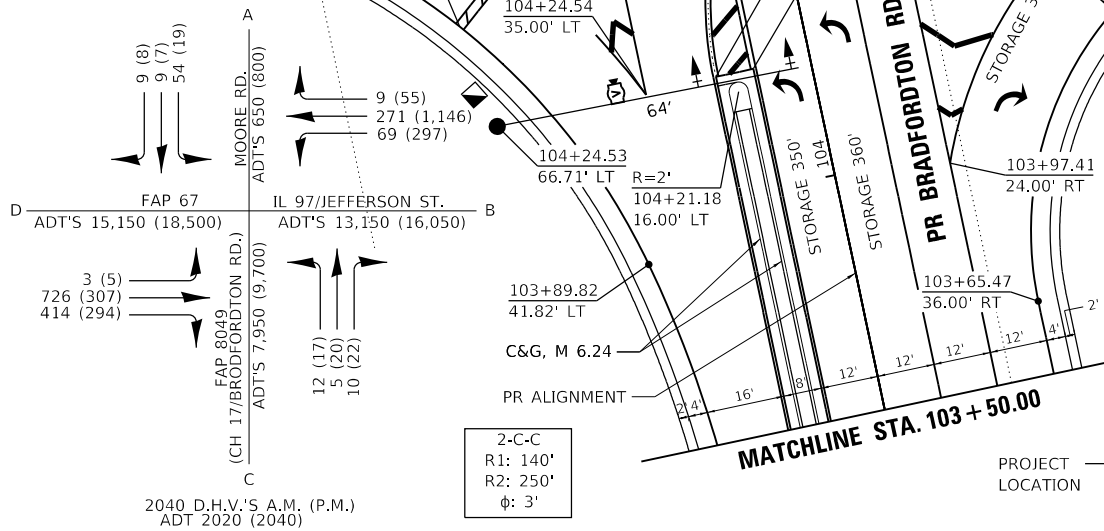
SIGNALIZED CAPACITY DESIGN ANALYSIS ON SHT. 2

ELEMENTS CONTROLLING DESIGN ON SHT. 2



TRAFFIC DATA									
MOVEMENT	YEAR 2020 30TH MAXIMUM HOUR TRAFFIC		PERCENT TRUCK TRAFFIC IN 30TH MAX. HOUR		ESTIMATED PERCENT INCREASE BY	YEAR 2040 30TH MAXIMUM HOUR TRAFFIC		ESTIMATED PERCENT INCREASE BY	
	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.		
AD (L)	44	15	2	2		54	19		
AB (T)	8	6	2	2		9	7		
AC (R)	8	7	2	2		9	8		
BC (L)	56	243	2	2		69	297		
BA (T)	222	939	2	2		271	1,146		
BD (R)	7	45	2	2		9	55		
CA (L)	183	376	2	2		224	458		
CD (T)	2	4	2	2		3	5		
CB (R)	223	86	2	2		272	105		
DB (L)	2	4	2	2		3	5		
DC (T)	595	252	2	2		726	307		
DA (R)	339	241	2	2		414	294		
TOTAL A	71	81	2	2		87	99		
TOTAL B	1,147	1,580				1,401	1,929		
TOTAL C	811	956				991	1,166		
TOTAL D	1,349	1,819				1,647	2,218		

T = THROUGH, L = LEFT, R = RIGHT



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97)

FAU ROUTE 8049 WITH (BRADFORDTON RD) &

TR ROUTE 196 (MOORE ROAD)

SEC. NO. S(X) & W(X, TS) PROJ. NO. D692621

SCALE: 1"=20' COUNTY: SANGAMON

SIN : REV. NO. 1

DESIGNED BY LORI WILLIAMS DATE 04/01/2019

SATISFACTORY DISTRICT GEOMETRICS ENGINEER DATE

SATISFACTORY DISTRICT PROGRAM DEVELOPMENT ENGINEER DATE

SATISFACTORY DISTRICT OPERATIONS ENGINEER DATE

APPROVED REGIONAL ENGINEER DATE

CADD FILE NAME : D692621-Final IDS.dgn I.D.S. SHEET 1 OF 13

2/18/2019
pxv\planroom\dot\Illinois.gov\PIV\DOT\Documents\IDOT - Offices\District 6\Projects\0692621\CADDData\Geometrics\0692621-Final IDS.dgn
PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

SIGNALIZED CAPACITY DESIGN ANALYSIS																		
PROGRAM USED: <u>HCS STREETS, VERSION: 7.5</u>					SIGNAL TYPE: <u>ACTUATED</u>					AREA TYPE: <u>NON-CBD</u>								
NUMBER OF PHASES: <u>5 (A.M.), 5 (P.M.)</u>					CYCLE LENGTH: <u>64.0 SEC (A.M.), 75.7 SEC. (P.M.)</u>					PEAK HOUR FACTOR: <u>0.90</u>								
INTERSECTION DELAY: <u>19.7 SECONDS (A.M.), 24.4 SECONDS (P.M.)</u>					LEVEL-OF-SERVICE: <u>B (A.M.) , C (P.M.)</u>													
APPROACH		EASTBOUND				WESTBOUND				NORTBOUND				SOUTHBOUND				
LANE GROUP		LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	
NUMBER OF LANES		1	2	1		1	2	1		1	1	1		1	1	1		
<u>2040 30TH MAX. HOUR TRAFFIC (veh/h)</u>	A.M.	3	726	414		69	271	9		224	3	272		54	9	9		
	P.M.	5	307	294		297	1146	55		458	5	105		19	7	8		
BASE SATURATION FLOW RATE (veh/h)		1900	2000	1900		1900	2000	1900		1900	1900	1900		1900	1900	1900		
LANE WIDTH (FT)		14	12	12		14	12	12		12	12	12		12	12	12		
VOLUME OF RIGHT TURN ON RED (veh/h)		A.M.	41		P.M.	29		A.M.	1		P.M.	5		A.M.	27		P.M.	11
PEDESTRIANS/HOUR (ped/h)		A.M.	0		P.M.	0		A.M.	0		P.M.	0		A.M.	0		P.M.	0
ARRIVAL TYPE		3				3				3				3				
LANE UTILIZATION ADJ. FACTOR		1.000	0.952	1.000		1.000	0.952	1.000		0.971	1.000	1.000		1.000	1.000	1.000		
GREEN TIME (SECONDS)	A.M.	12.0	12.0	24.8		16.2	16.2	20.8		12.8	12.8	17.3		4.6	4.6	4.6		
	P.M.	7.1	7.1	7.1		22.6	22.6	25.9		13.8	13.8	35.3		3.3	3.3	3.3		
GREEN RATIO (g/C)	A.M.	0.22	0.28	0.48		0.22	0.35	0.42		0.20	0.20	0.27		0.07	0.07			
	P.M.	0.12	0.17	0.36		0.29	0.38	0.42		0.18	0.18	0.47		0.04	0.04	0.04		
CAPACITY (c) (veh/h)	A.M.	260	1024	779		271	1257	674		706	382	436		129	124			
	P.M.	238	695	619		611	1142	736		639	346	813		79	836	76		
v/c RATIO (X)	A.M.	0.013	0.788	0.591		0.283	0.240	0.015		0.353	0.009	0.693		0.465	0.161			
	P.M.	0.023	0.517	0.474		0.540	0.883	0.075		0.796	0.016	0.130		0.267	0.094	0.117		
BACK OF QUEUE, Q (ft/ln)	A.M.	0.8	115	48.7		24.4	31.2	1.6		34.4	0.9	99		20.2	6.5			
	P.M.	3.7	104.7	91.8		155.3	311.3	21.1		152.4	33.3	16.5		16.1	5.9	6.7		
CONTROL DELAY, d (s/veh)	A.M.	19.7	21.7	11.1		27.3	14.9	10.9		22.1	20.5	25.9		29.5	28.1			
	P.M.	29.5	28.7	15.9		21.4	24.9	13.1		30.5	25.4	9.5		35.7	35.0	35.1		
LANE GROUP LEVEL-OF-SERVICE	A.M.	B	C	B		C	B	B		C	C	C		C	C			
	P.M.	C	C	B		C	C	B		C	C	A		D	C	D		
APPROACH DELAY (SECONDS/VEHICLE)	A.M.	17.8				17.2				24.2				29.2				
	P.M.	22.8				23.8				26.9				35.4				
APPROACH LEVEL-OF-SERVICE	A.M.	B				B				C				C				
	P.M.	C				C				C				D				

PHASE		1		2		3		4		5			
													
		YELLOW	RED		YELLOW	RED		YELLOW	RED		YELLOW	RED	
GREEN TIME IN SECONDS	A.M.	0.3	4.0/2.0	11.7	4.0/2.0	4.5	4.0/2.0	4.6	4.0/2.0	12.8	4.0/2.0	64.0 SEC	
	P.M.	6.0	4.0/2.0	1.1	4.0/2.0	21.5	4.0/2.0	13.8	4.0/2.0	3.3	4.0/2.0	75.7 SEC	

ELEMENTS CONTROLLING DESIGN

PREFERRED ROUTE:
F.A.P. ROUTE NUMBER: 67 MARKED ROUTE NUMBER: IL 97
STREET NAME: JEFFERSON ST. SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 15,150 VPD DESIGN YEAR ADT: 18,500 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

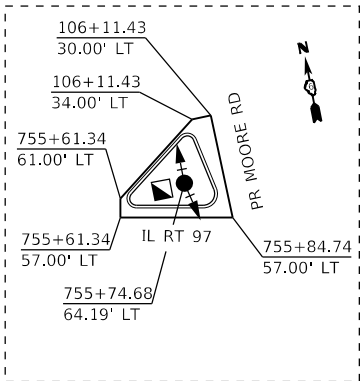
SECONDARY ROUTE:
SOUTH LEG:
F.A.U. ROUTE NUMBER: 8049 MARKED ROUTE NUMBER: CH 17
STREET NAME: BRADFORDTON RD SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: MINOR URBAN ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 7,950 VPD DESIGN YEAR ADT: 9,700 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

NORTH LEG:
ROUTE NUMBER: N/A MARKED ROUTE NUMBER: N/A
STREET NAME: MOORE RD, CONNECTOR SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: LOCAL ROAD OSOW DESIGN (Y/N): NO
EXISTING ADT: N/A VPD DESIGN YEAR ADT: 9,700 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

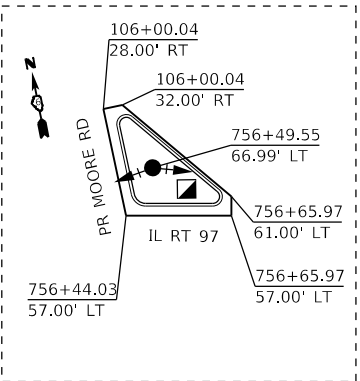
IMPROVEMENT TYPE: NEW EXPRESSWAY ANTICIPATED YEAR OF CONSTRUCTION: 2020
EXISTING METHOD OF TRAFFIC CONTROL: SIGNALS PROPOSED METHOD: SIGNALS
DESIGN VEHICLE(S): WB-65
DESIGN YEAR: 2040, WHICH IS A 20 YEAR DESIGN.
TRUCK ROUTE DESIGNATION: CLASS II PREFERRED ROUTE: _____ SECONDARY ROUTE: _____
DESIGN CRITERIA: NEW CONSTRUCTION/NEW EXPRESSWAY

GENERAL NOTES

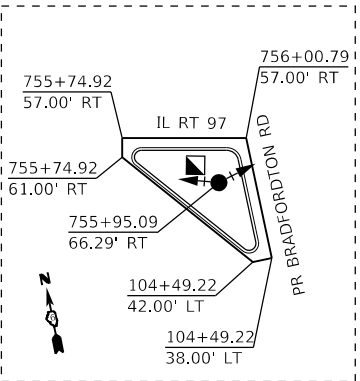
ARE PROFILES PROVIDED (Y/N): YES IF NOT STATE WHY: N/A
TYPE N/A CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY SHOULDERS, UNLESS OTHERWISE NOTED.
TYPE N/A CURB AND GUTTER ON THE APPROACH MEDIAN, UNLESS OTHERWISE NOTED.
TYPE N/A CURB AND GUTTER ON THE CORNER ISLANDS, UNLESS OTHERWISE NOTED.
ALL DIMENSIONS ARE E-E, UNLESS OTHERWISE NOTED.
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 9.0.1.
THE SCOPE OF WORK: CONSTRUCT NEW EXPRESSWAY ON NEW ALIGNMENT ON FAP 67
FROM KOKE MILL RD. IN SPRINGFIELD TO WEST OF IL 97/IL 125 JUNCTION
INCLUDING A NEW CONNECTOR ROAD AT BRADFORDTON RD. INTERSECTION.
INTERSECTION DESIGN EXCEPTIONS: _____
ADDITIONAL NOTES: _____



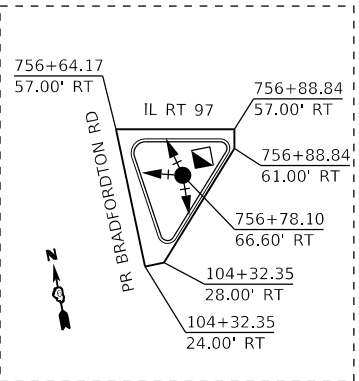
DETAIL A



DETAIL B



DETAIL C



DETAIL D

INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97)

FAU ROUTE 8049 WITH (BRADFORDTON RD) &

TR ROUTE 196 (MOORE ROAD)

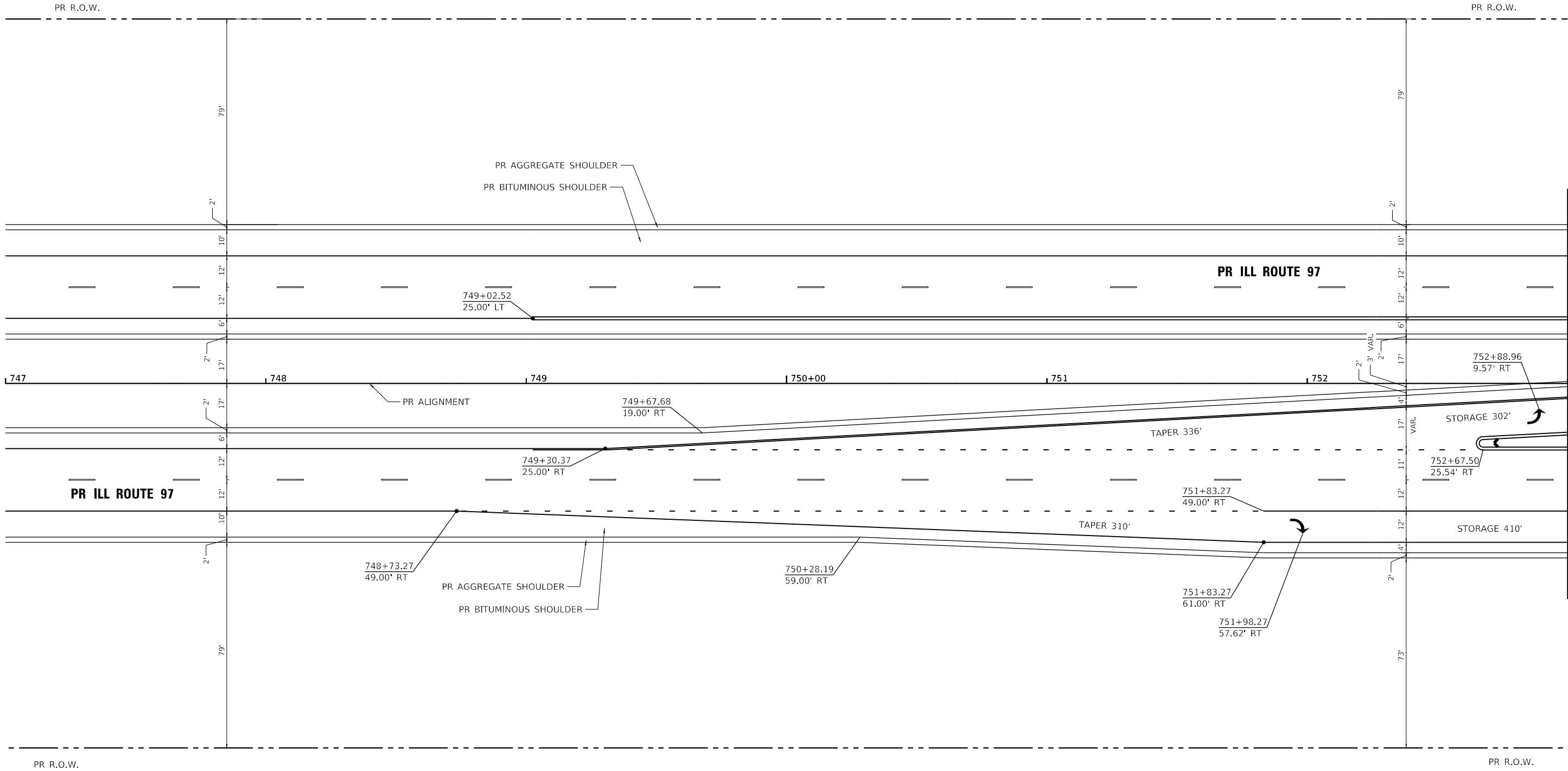
SEC. NO. 5(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : PROJ. NO. D692621

I.D.S. SHEET 2 OF 13

PLOT DATE = 2/16/2019
FILE NAME = p:\p1\planfromdot\illinois.gov\HWIDOT\Documents\IDOT - Offices\District 6\Projects\0692621\CADData\Geometrics\0692621-Final_DS.dgn
PLOT SCALE = 40.0000' / in.
USER NAME = shahdm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD) &
TR ROUTE 196 (MOORE ROAD)

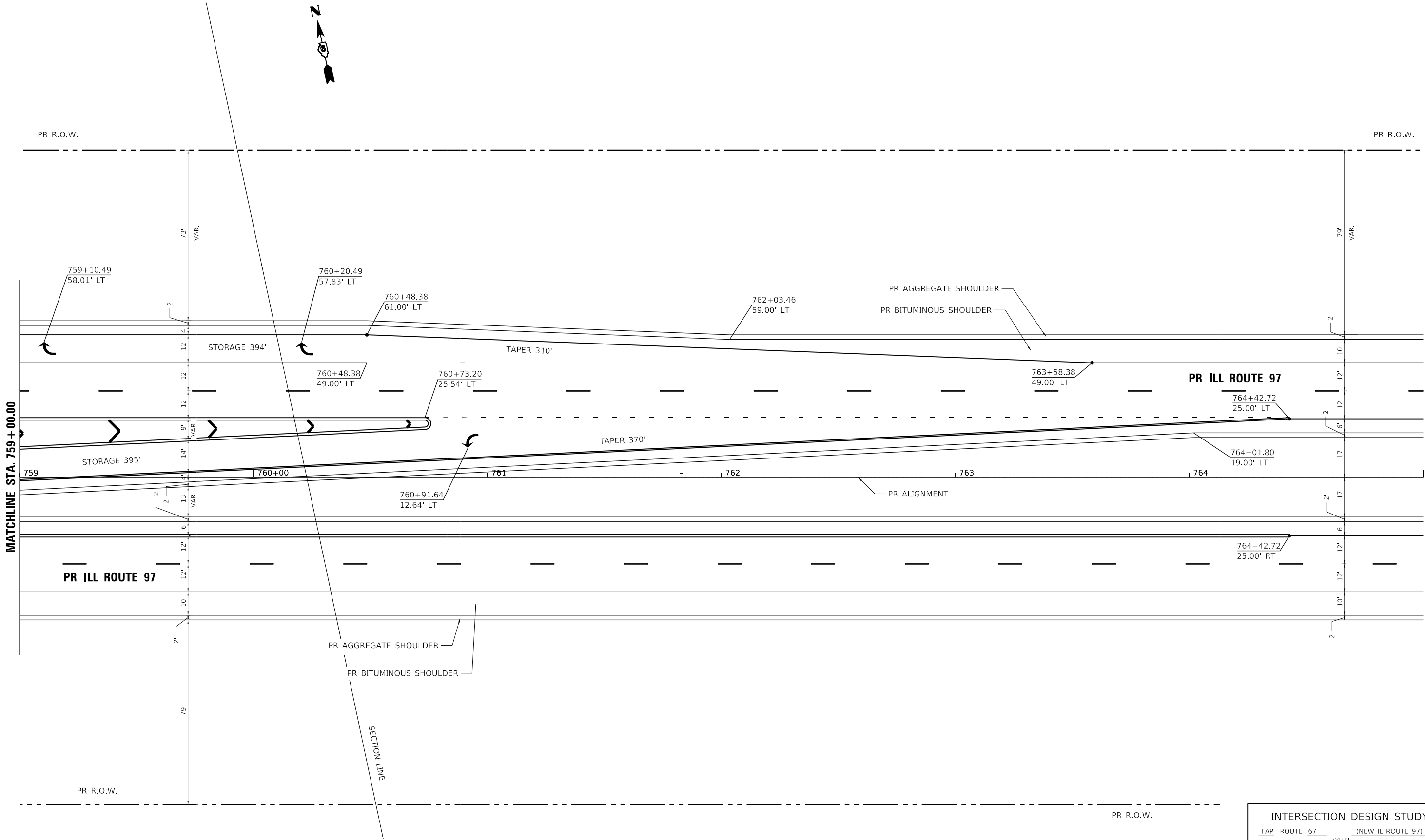
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

SIN : _____ PROJ. NO. D692621

I.D.S. SHEET 3 OF 13

PLOT DATE = 2/18/2019
FILE NAME = p:\projects\692621\CD\692621\CD\692621-Final.DS.dgn
PLOT SCALE = 40,000' / in.
USER NAME = shahdm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD) &
TR ROUTE 196 (MOORE ROAD)

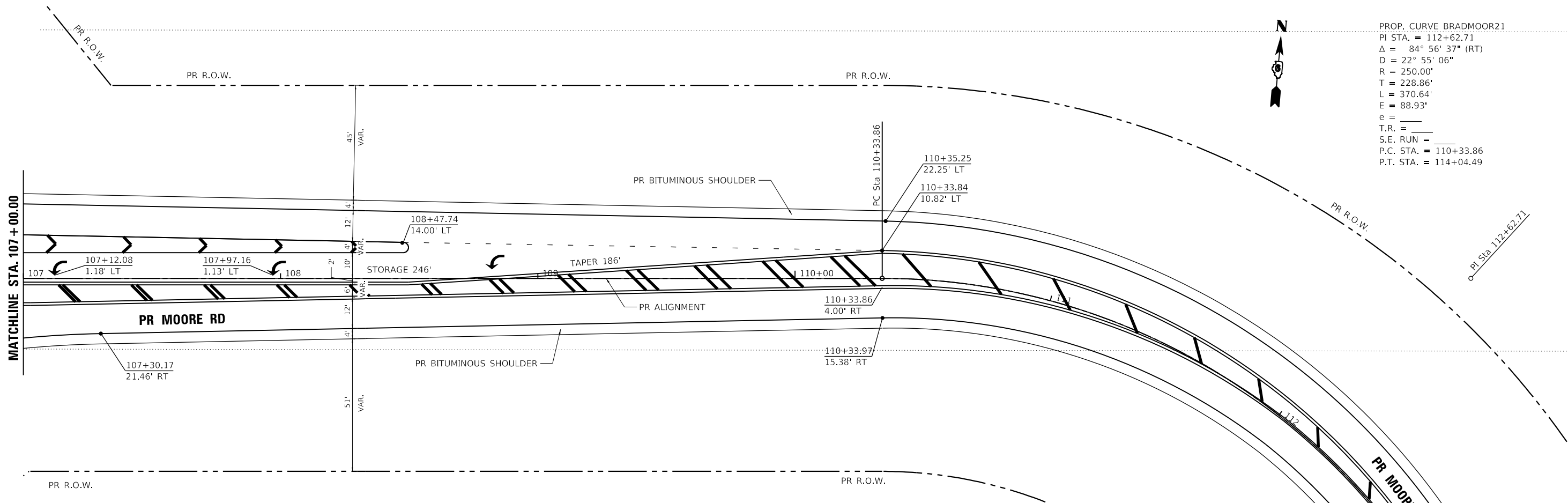
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY SANGAMON

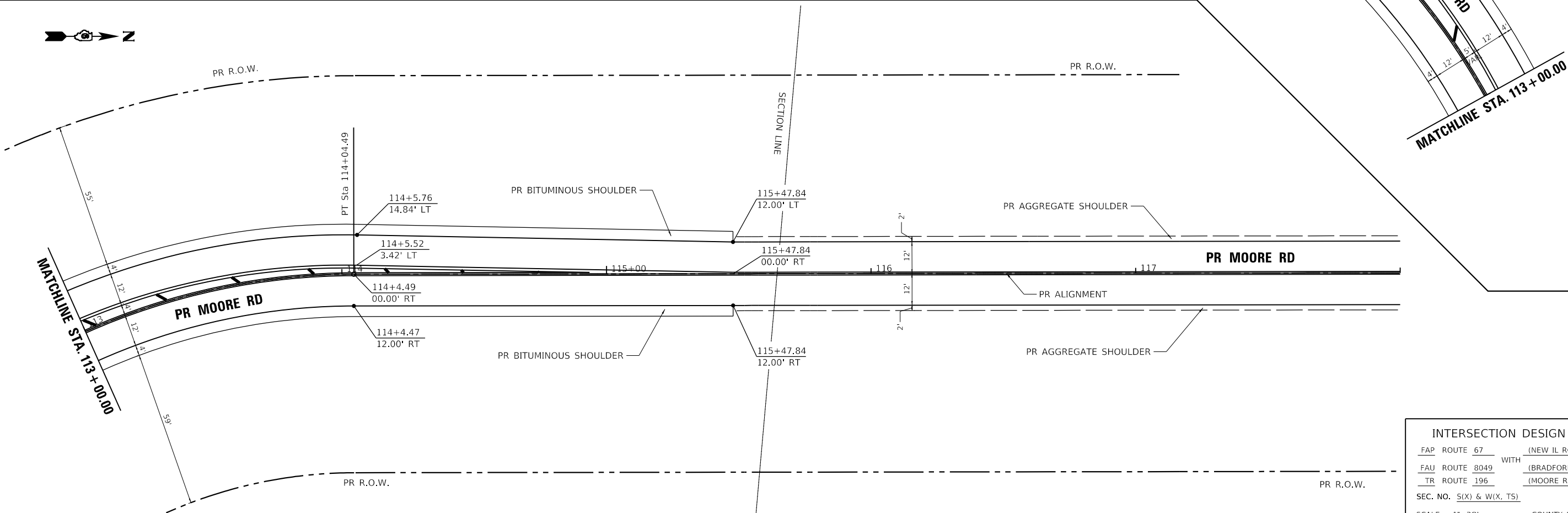
SIN : PROJ. NO. D692621

I.D.S. SHEET 4 OF 13

PLOT DATE = 2/18/2019
FILE NAME = p:\s\planroom\dot\illinois.gov\HWIDOT\Documents\IDOT - Offices\District 6\Projects\0692621\CADData\Geometrics\0692621-Final IDS.dgn
PLOT SCALE = 40.0000' / in.
USER NAME = shahdm

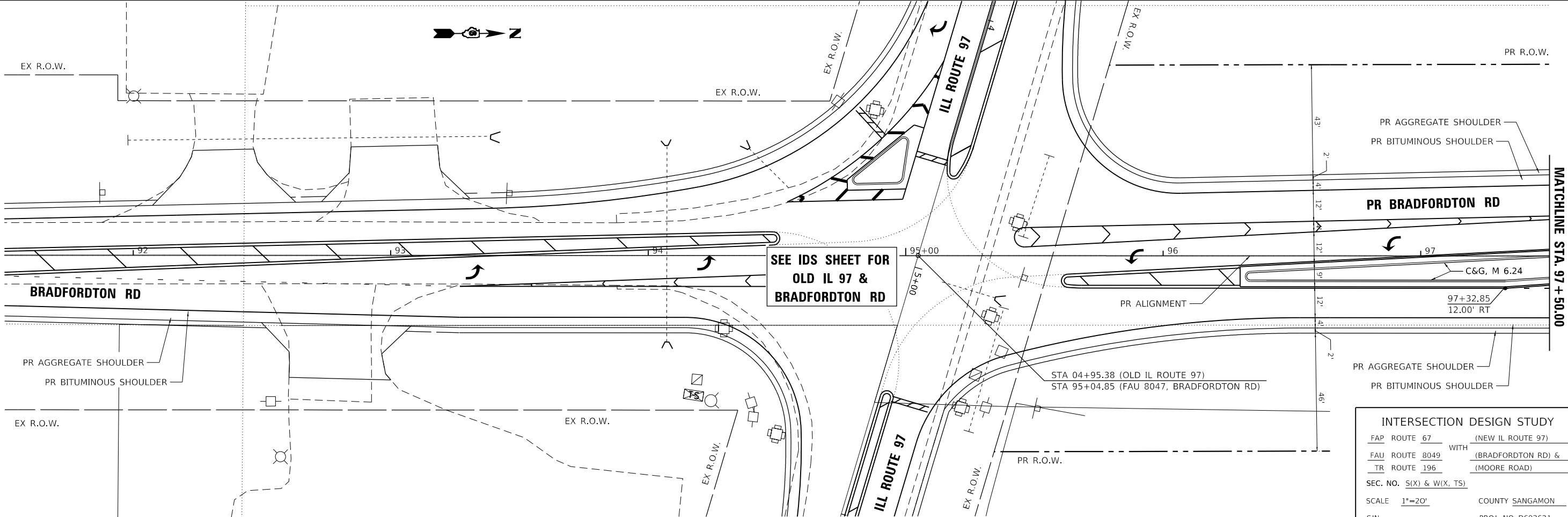
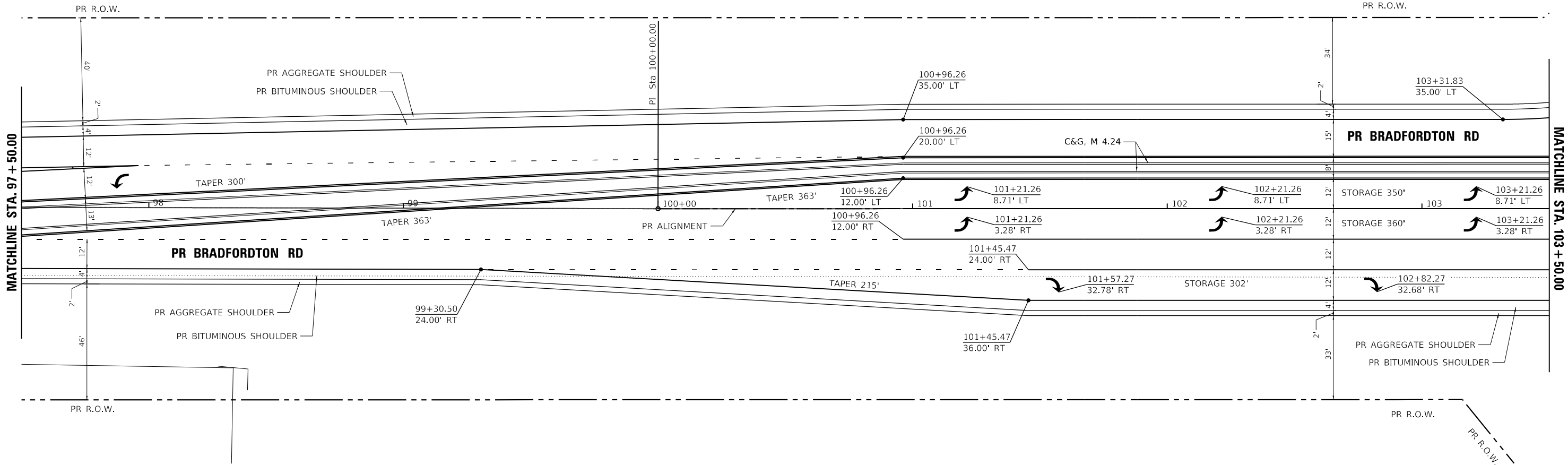


PROP. CURVE BRADMOOR21
PI STA. = 112+62.71
 Δ = 84° 56' 37" (RT)
D = 22° 55' 06"
R = 250.00'
T = 228.86'
L = 370.64'
E = 88.93'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 110+33.86
P.T. STA. = 114+04.49



INTERSECTION DESIGN STUDY
FAP ROUTE 67 (NEW IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD) &
TR ROUTE 196 (MOORE ROAD)
SEC. NO. S(X) & W(X, TS)
SCALE 1"=20' COUNTY SANGAMON
SIN : _____ PROJ. NO. D692621
I.D.S. SHEET 5 OF 13

2/18/2019
D:\Projects\692621\CAD\Drawings\692621-Final_IDS.dgn
shahdm



SEE IDS SHEET FOR
OLD IL 97 &
BRADFORDTON RD

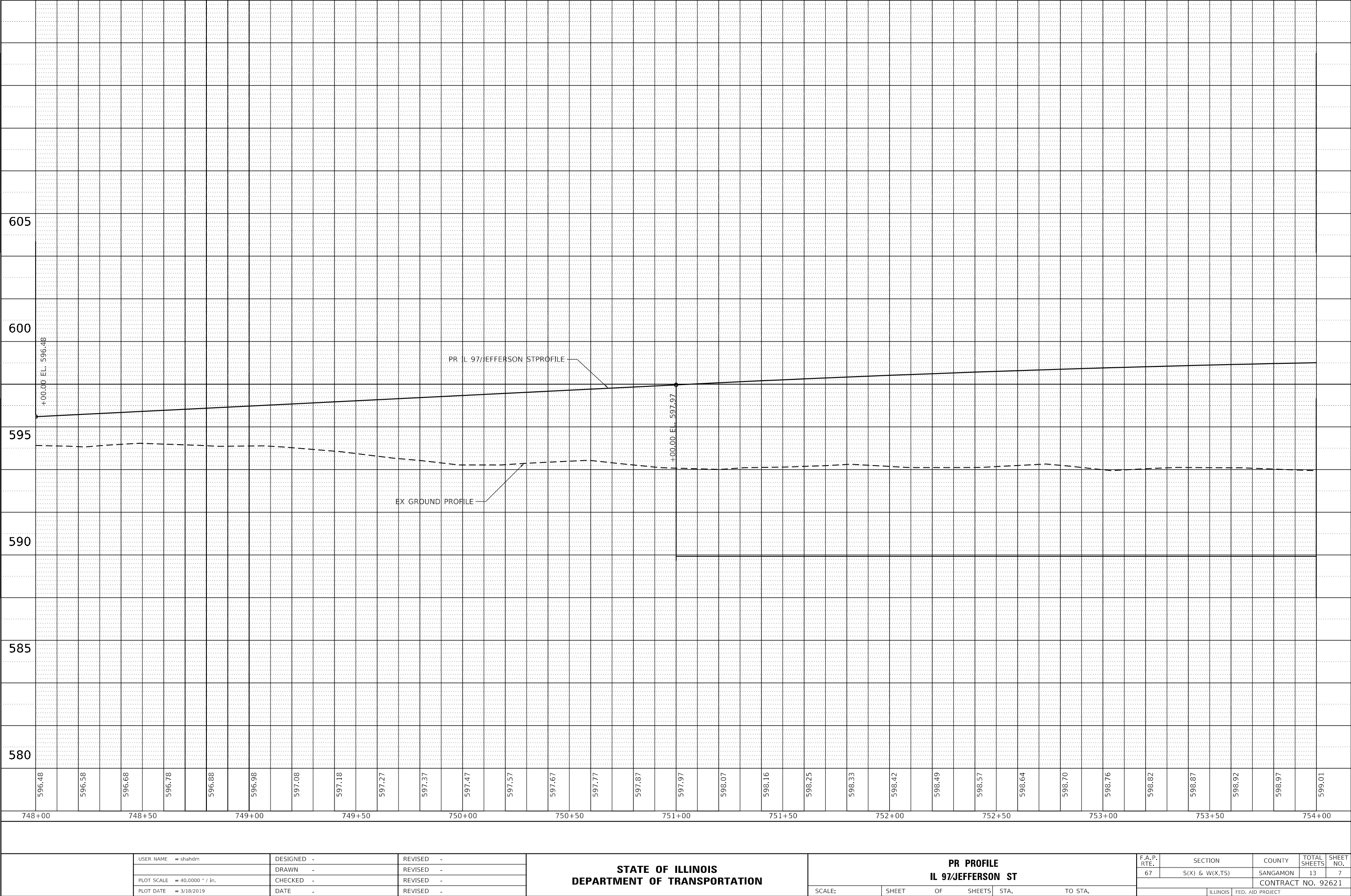
INTERSECTION DESIGN STUDY

FAP ROUTE 67 (NEW IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD) &
TR ROUTE 196 (MOORE ROAD)
SEC. NO. S(X) & W(X, TS)
SCALE 1"=20' COUNTY SANGAMON
SIN : PROJ. NO. D692621
I.D.S. SHEET 6 OF 13

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

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

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\allinois\gov\PIV\DOT Documents\DOT Offices\District 6\Projects\DOT692621\Cadd\p\lansroom\dot\allinois\gov\PIV\DOT Documents\DOT Offices\District 6\Projects\DOT692621-Final\IDS.dgn



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE
IL 97/JEFFERSON ST

USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

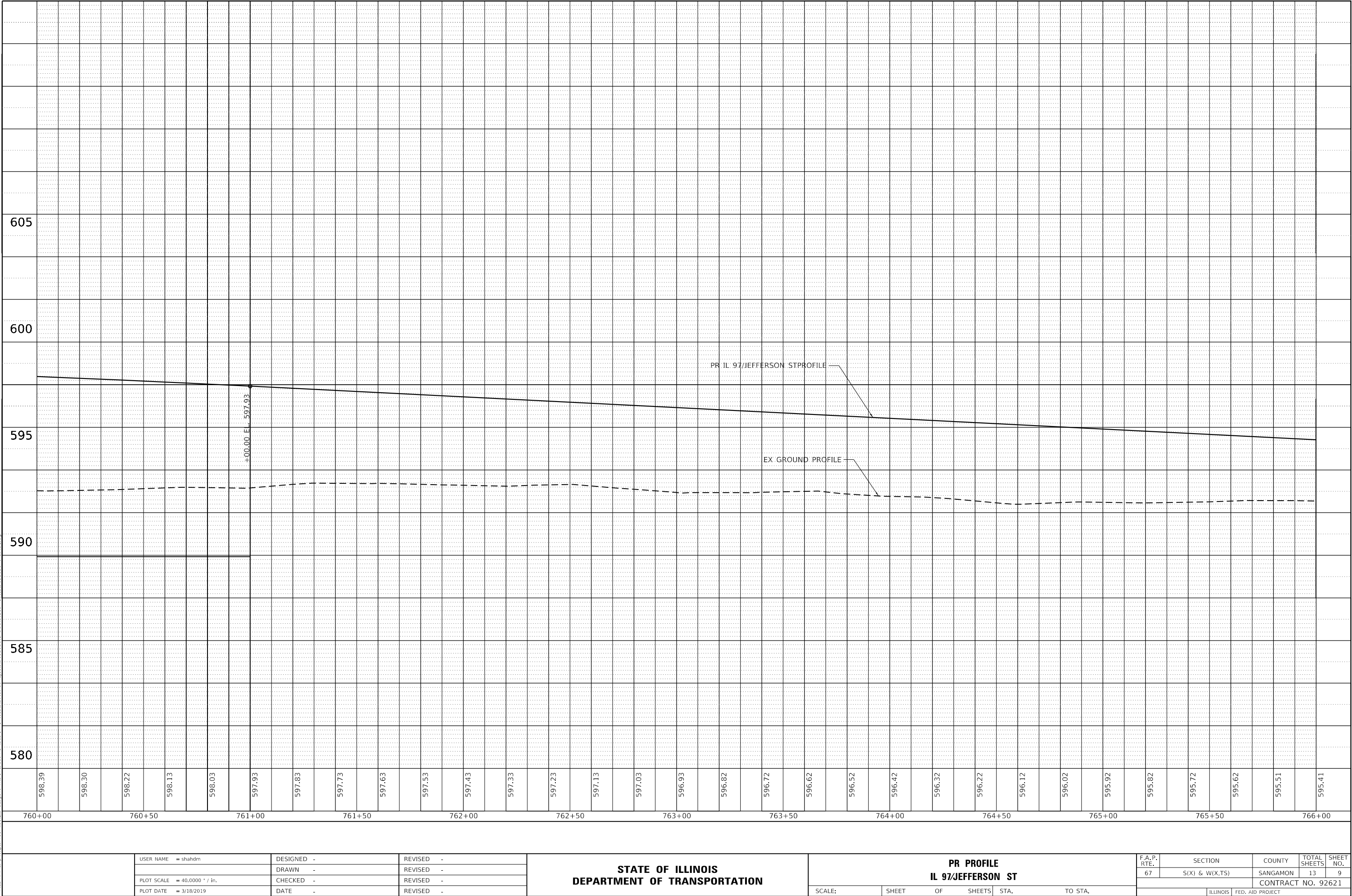
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	7
CONTRACT NO. 92621				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	CADD FILE NAME		
NO.			

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

MODEL: Default
FILE NAME: p:\c:\p\workspace\dot\illinois\gov\PIV\DOT\Documents\DOT - Offices\District 6\Projects\DOT692621\Cadd\p\dot\Illinois\gov\PIV\DOT\Documents\DOT - Offices\District 6\Projects\DOT692621-Final\IDS.cgm



USER NAME	= shahdm	DESIGNED -	REVISED -
PLOT SCALE	= 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE	= 3/18/2019	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE
IL 97/JEFFERSON ST

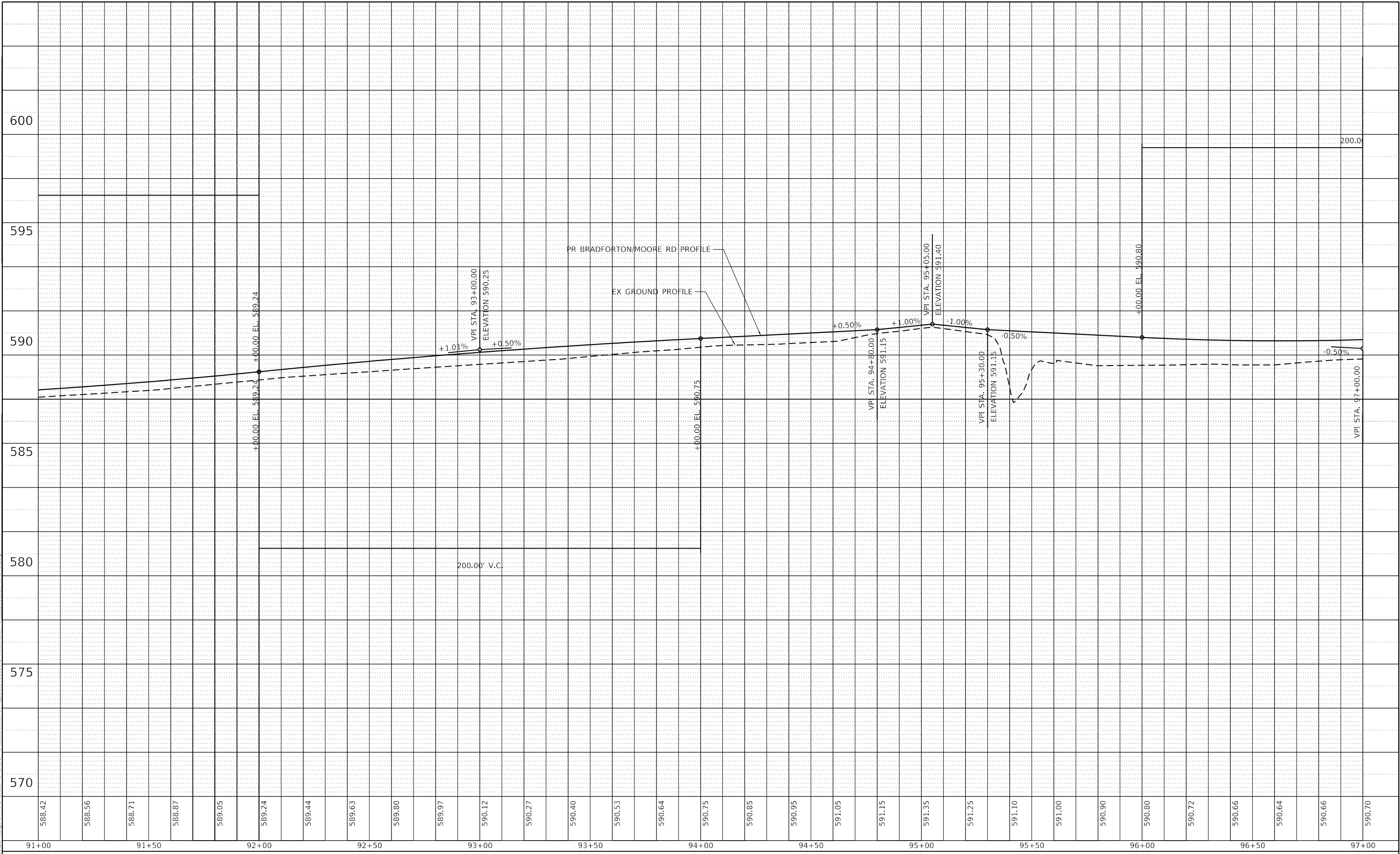
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	9
CONTRACT NO. 92621				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\illinois\gov\PIV\DOT\Documents\DOT - Offices\District E\Projects\ID692621\Cadd\p\lansroom\dot\illinois\gov\PIV\DOT\Documents\DOT - Offices\District E\Projects\ID692621-Final ID5.dgn



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

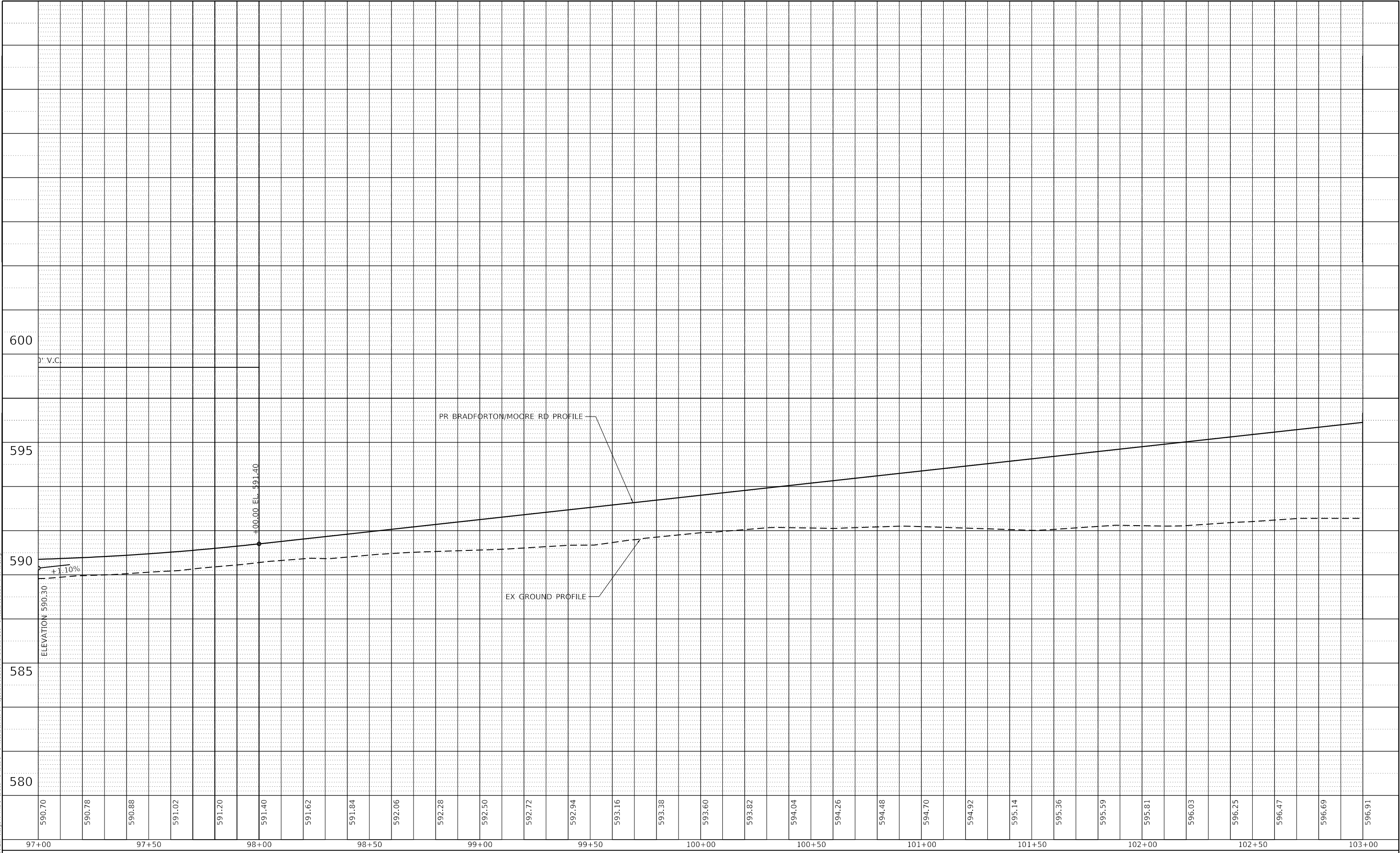
PR PROFILE BRADRORDTON RDMOORE ST			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	10
CONTRACT NO. 92621				
ILLINOIS		FED. AID PROJECT		

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

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

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\illinois\gov\PIVDOT\Documents\DOT Offices\District 6\Projects\0692621\Cadd\Bata\Geometrics\0692621-final\DS5.dgn



USER NAME	= shahdm	DESIGNED	-
		DRAWN	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-
PLOT DATE	= 3/18/2019	DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE BRADRORDTON RDMOORE ST			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	11
CONTRACT NO. 92621				
		ILLINOIS	FED. AID PROJECT	

PLAN

SURVEYED
PLOTTED

ALIGNMENT CHECKED
FILED

CADD FILE NAME

BY

DATE

NOTE BOOK
NO.

PROFILE

SURVEYED
PLOTTED

GRADES CHECKED
FILED

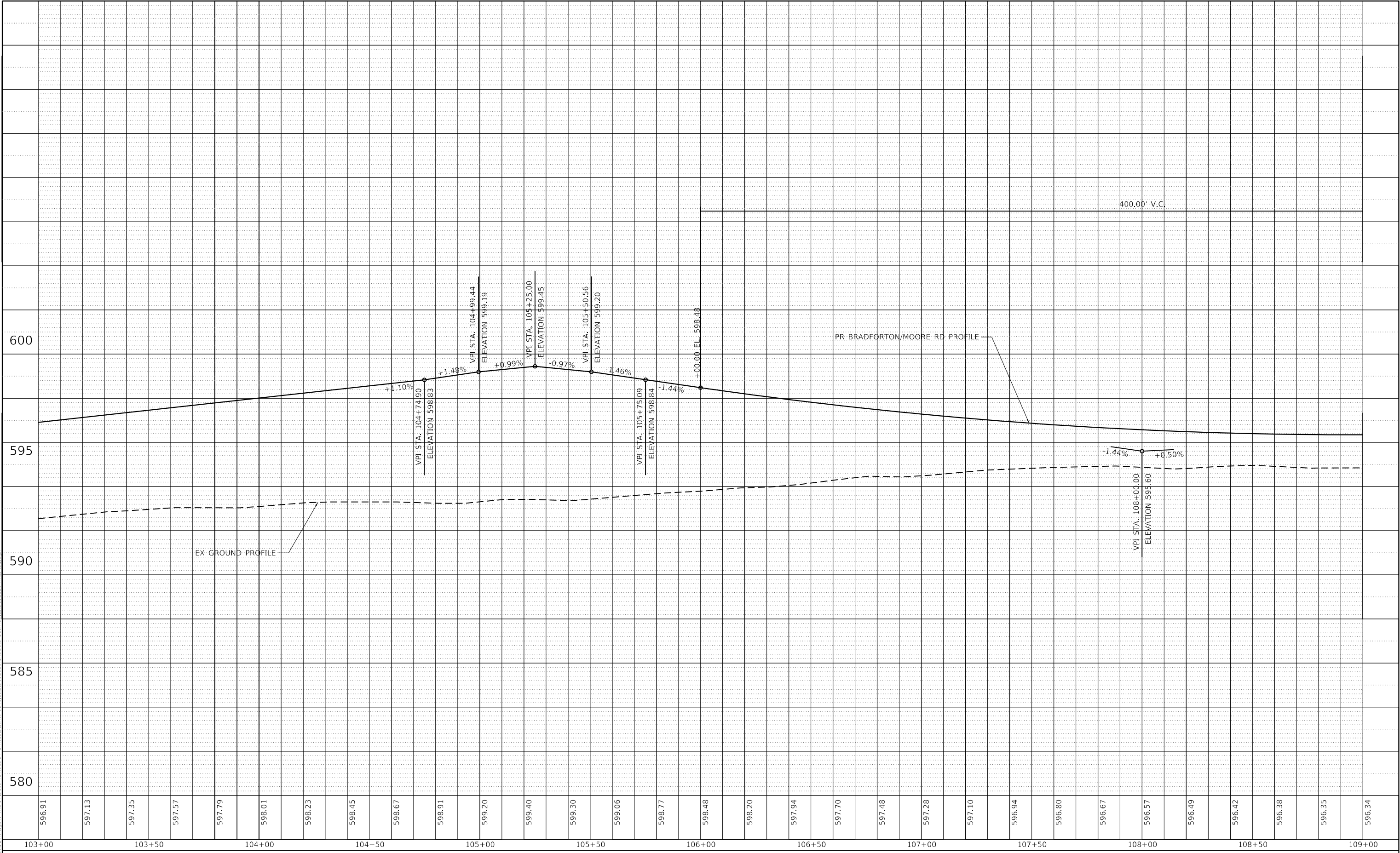
STRUCTURE NOTATIONS CHNG

BY

DATE

NOTE BOOK
NO.

MODEL: Default
FILE NAME: p:\caddroom\dot\illinois\gov\PIV\DOT Documents\DOT - Offices\District 6\Projects\DOT692621\Cadd\Bare Geometrics\DOT692621-Final\IDS.dgn



USER NAME	= shahdm	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 3/18/2019	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

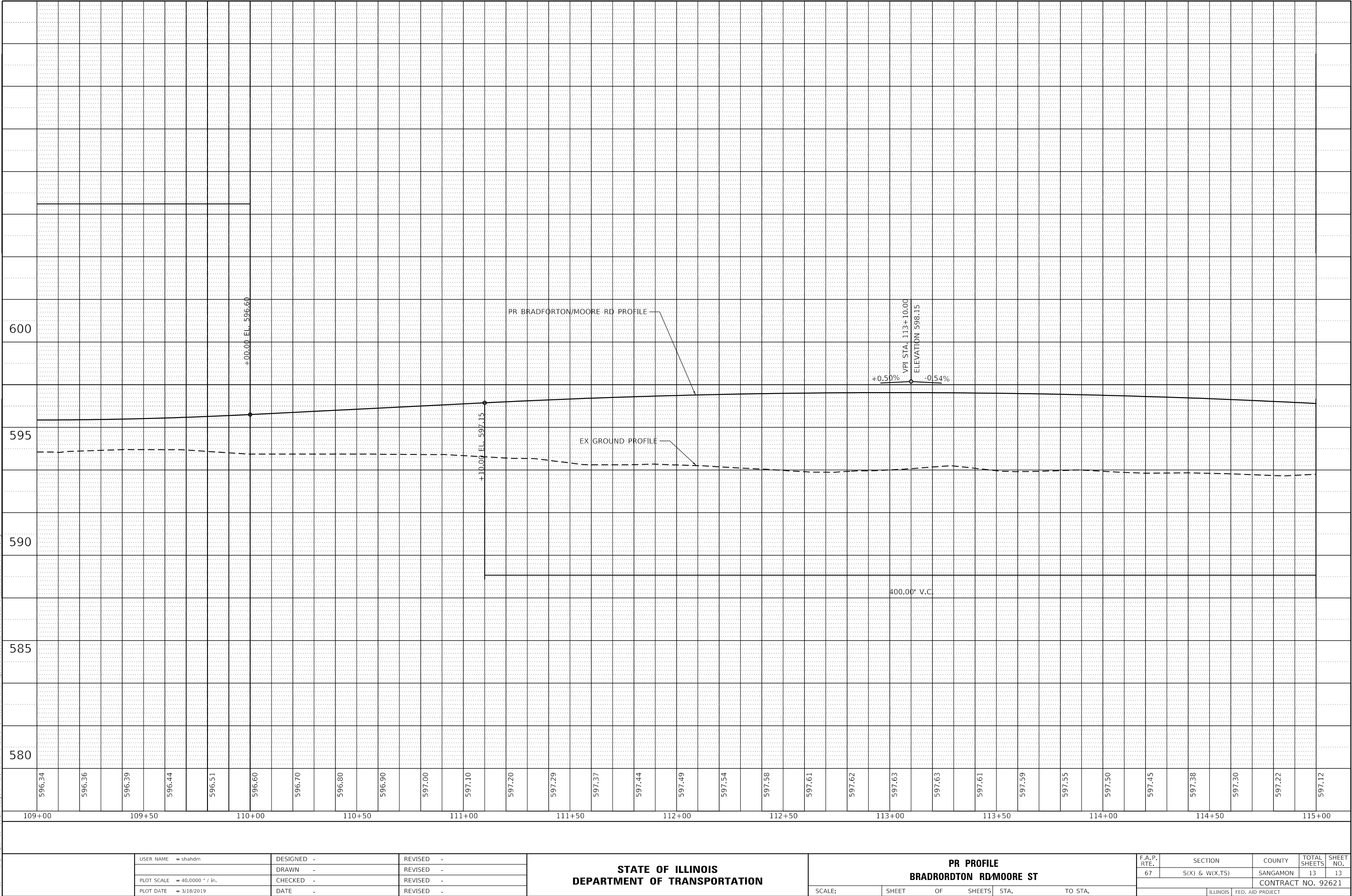
PR PROFILE BRADRORDTON RDMOORE ST			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	12
CONTRACT NO. 92621				
		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	CADD FILE NAME		
	NO.		

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

MODEL: Default
FILE NAME: p:\c:\p\lansroom\dot\allinois\gov\PIV\DOT Documents\DOT - Offices\District 6\Projects\ID692621\Cadd\p\lansroom\dot\allinois\gov\PIV\DOT Documents\DOT - Offices\District 6\Projects\ID692621-Final ID5.dgn



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

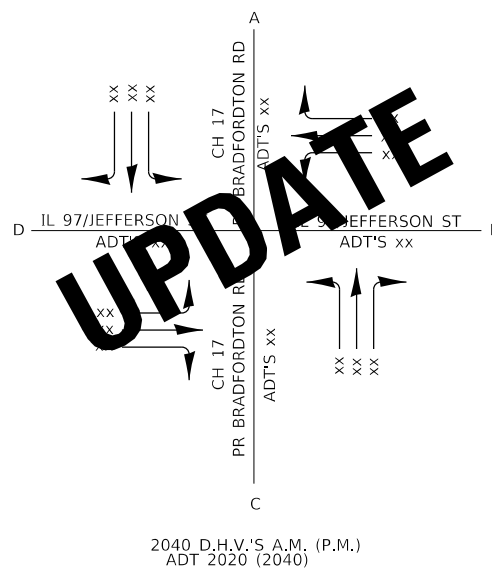
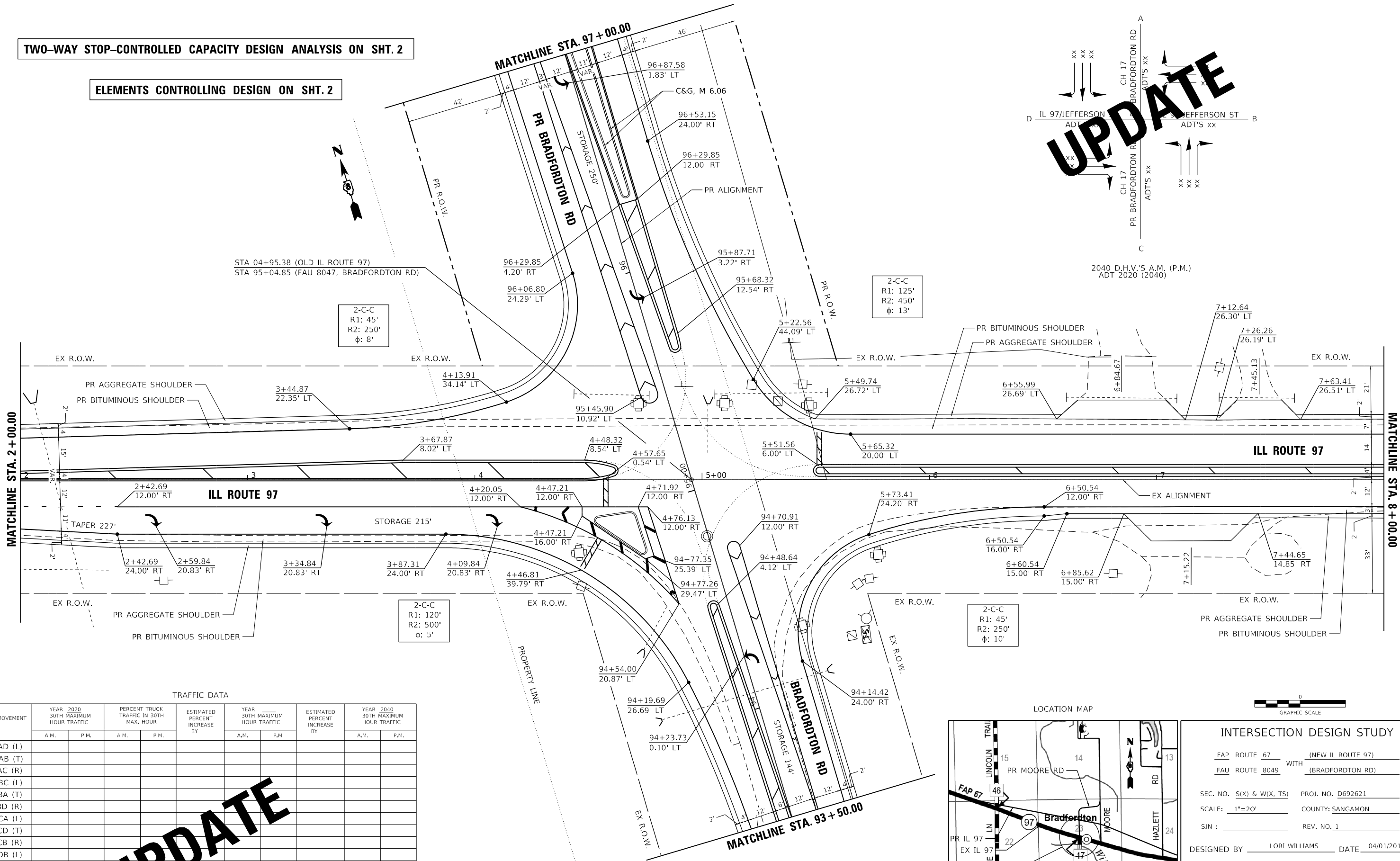
PR PROFILE BRADRORDTON RDMOORE ST			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	13	13
CONTRACT NO. 92621				
ILLINOIS FED. AID PROJECT				

2/18/2019
D:\Projects\692621\CD\Drawings\692621-Final_IDS.dgn
shahdm

TWO-WAY STOP-CONTROLLED CAPACITY DESIGN ANALYSIS ON SHT. 2

ELEMENTS CONTROLLING DESIGN ON SHT. 2

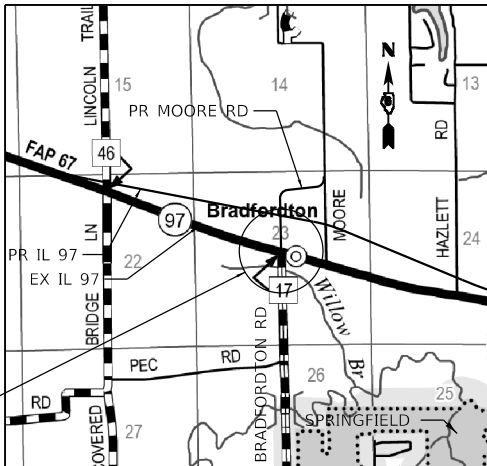


TRAFFIC DATA

MOVEMENT	YEAR 2020 30TH MAXIMUM HOURLY TRAFFIC		PERCENT TRUCK TRAFFIC IN 30TH MAX. HOUR		ESTIMATED PERCENT INCREASE BY	YEAR 2040 30TH MAXIMUM HOURLY TRAFFIC		ESTIMATED PERCENT INCREASE BY	YEAR 2040 30TH MAXIMUM HOURLY TRAFFIC	
	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.		A.M.	P.M.
AD (L)										
AB (T)										
AC (R)										
BC (L)										
BA (T)										
BD (R)										
CA (L)										
CD (T)										
CB (R)										
DB (L)										
DC (T)										
DA (R)										
TOTAL A										
TOTAL B										
TOTAL C										
TOTAL D										

T = THROUGH, L = LEFT, R = RIGHT

LOCATION MAP



INTERSECTION DESIGN STUDY

FAP ROUTE 67 WITH (NEW IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD)

SEC. NO. S(X) & W(X, TS) PROJ. NO. D692621
SCALE: 1"=20' COUNTY: SANGAMON
SIN : REV. NO. 1

DESIGNED BY LORI WILLIAMS DATE 04/01/2019

SATISFACTORY DISTRICT GEOMETRICS ENGINEER DATE

SATISFACTORY DISTRICT PROGRAM DEVELOPMENT ENGINEER DATE

SATISFACTORY DISTRICT OPERATIONS ENGINEER DATE

APPROVED REGIONAL ENGINEER DATE

CADD FILE NAME : D692621-Final_IDS.dgn I.D.S. SHEET 1 OF 7

2/18/2019
px\planroom\dot\Illinois.gov\PI\DOT\Documents\IDOT - Offices\District 6\Projects\0692621\CAD\Bdata\Geometrics\0692621-Final IDS.dgn
40,0000' / in.
shahdm

PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

TWO-WAY STOP-CONTROLLED CAPACITY DESIGN ANALYSIS												
PROGRAM USED _____ VERSION _____ PEAK HOUR FACTOR _____												
SIGNALIZED INTERSECTION(S) WITHIN 0.25 MILES OF INTERSECTION ALONG MAJOR ROUTE? (YES/NO) _____												
FLARED APPROACH FOR MINOR STREET RIGHT-TURNING VEHICLE? (YES/NO): _____ ON THE _____ APPROACH _____ ON THE _____ APPROACH.												
SINGLE OR TWO-STAGE GAP ACCEPTANCE? _____												
APPROACH												
MAJOR OR MINOR LEG?												
LANE GROUP												
NUMBER OF LANES												
20 _ 30TH MAX. HOURLY TRAFFIC (V _T) (veh/h)	A.M.											
	P.M.											
PEDESTRIANS/HOURLY (ped/h) COUNT OR ESTIMATE?	A.M.											
	P.M.											
CAPACITY (C _{PX} OR C _T) (veh/h)	A.M.											
	P.M.											
V/C RATIO (V _i /C _{PX})	A.M.											
	P.M.											
STORAGE QUEUE (NO. OF VEHICLES)	A.M.											
	P.M.											
CONTROL DELAY (SECONDS)	A.M.											
	P.M.											
LANE GROUP LEVEL OF SERVICE	A.M.											
	P.M.											
APPROACH DELAY, d (SEC)	A.M.											
	P.M.											
APPROACH LEVEL OF SERVICE	A.M.											
	P.M.											

ELEMENTS CONTROLLING DESIGN

PREFERRED ROUTE:
F.A.P. ROUTE NUMBER: 67 MARKED ROUTE NUMBER: IL 97
STREET NAME: JEFFERSON ST. SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 15,150 VPD DESIGN YEAR ADT: 18,500 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

SECONDARY ROUTE:
SOUTH LEG:
F.A.U. ROUTE NUMBER: 8049 MARKED ROUTE NUMBER: CH 17
STREET NAME: BRADFORDTON RD SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: MINOR URBAN ARTERIAL OSOW DESIGN (Y/N): NO
EXISTING ADT: 7,950 VPD DESIGN YEAR ADT: 9,700 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

NORTH LEG:
ROUTE NUMBER: N/A MARKED ROUTE NUMBER: N/A
STREET NAME: MOORE RD. CONNECTOR SRA ROUTE (Y/N): NO
FUNCTIONAL CLASSIFICATION: LOCAL ROAD OSOW DESIGN (Y/N): NO
EXISTING ADT: N/A VPD DESIGN YEAR ADT: 9,700 VPD
PROPOSED DESIGN SPEED: 60 MPH PROPOSED POSTED SPEED: 55 MPH

IMPROVEMENT TYPE: NEW EXPRESSWAY ANTICIPATED YEAR OF CONSTRUCTION: 2020
EXISTING METHOD OF TRAFFIC CONTROL: SIGNALS PROPOSED METHOD: SIGNALS
DESIGN VEHICLE(S): WB-65
DESIGN YEAR: 2040, WHICH IS A 20 YEAR DESIGN.
TRUCK ROUTE DESIGNATION: CLASS II PREFERRED ROUTE: _____ SECONDARY ROUTE: _____
DESIGN CRITERIA: NEW CONSTRUCTION/NEW EXPRESSWAY

GENERAL NOTES

ARE PROFILES PROVIDED (Y/N): YES IF NOT STATE WHY: N/A
TYPE N/A CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY SHOULDERS, UNLESS OTHERWISE NOTED.
TYPE N/A CURB AND GUTTER ON THE APPROACH MEDIAN, UNLESS OTHERWISE NOTED.
TYPE N/A CURB AND GUTTER ON THE CORNER ISLANDS, UNLESS OTHERWISE NOTED.
ALL DIMENSIONS ARE E-E, UNLESS OTHERWISE NOTED.
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 9.0.1.
THE SCOPE OF WORK: CONSTRUCT NEW EXPRESSWAY ON NEW ALIGNMENT ON FAP 67
FROM KOKE MILL RD. IN SPRINGFIELD TO WEST OF IL 97/IL 125 JUNCTION
INCLUDING A NEW CONNECTOR ROAD AT BRADFORDTON RD. INTERSECTION.
INTERSECTION DESIGN EXCEPTIONS: _____
ADDITIONAL NOTES: _____

INTERSECTION DESIGN STUDY

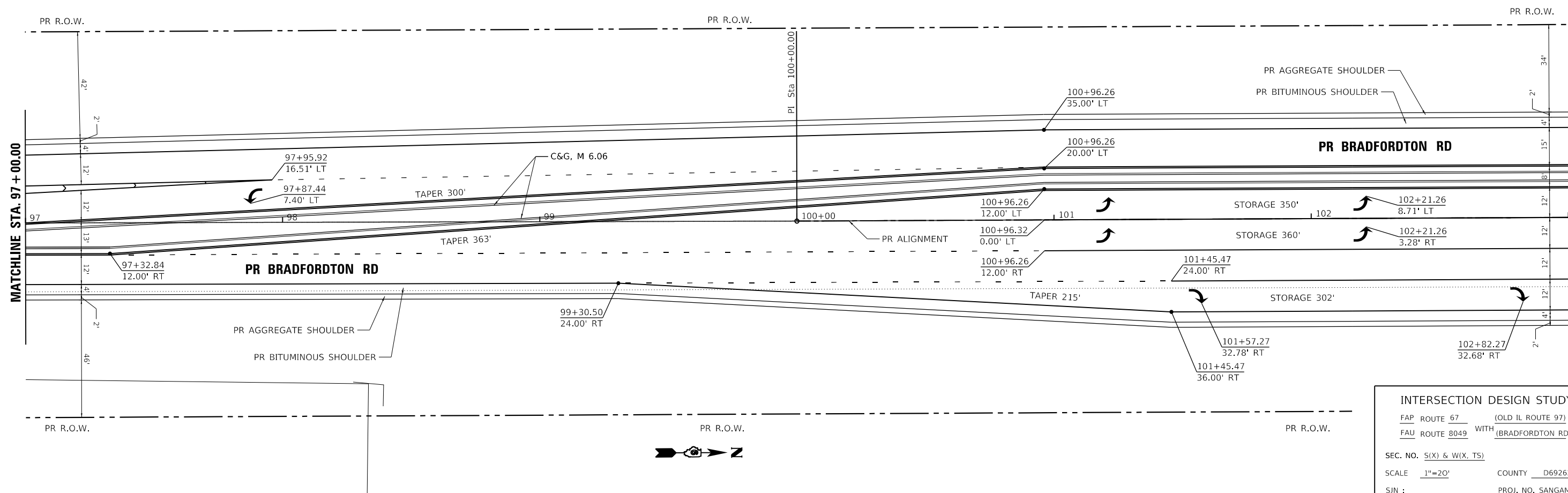
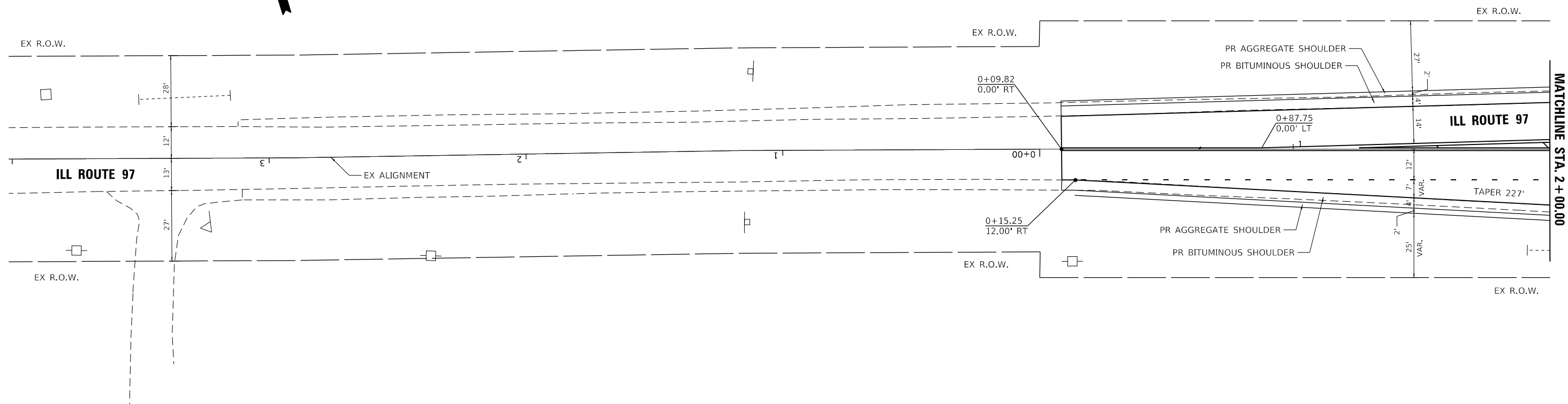
FAP ROUTE 67 (OLD IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD)

SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY D692621

SIN : PROJ. NO. SANGAMON

I.D.S. SHEET 2 OF 7



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (OLD IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD)

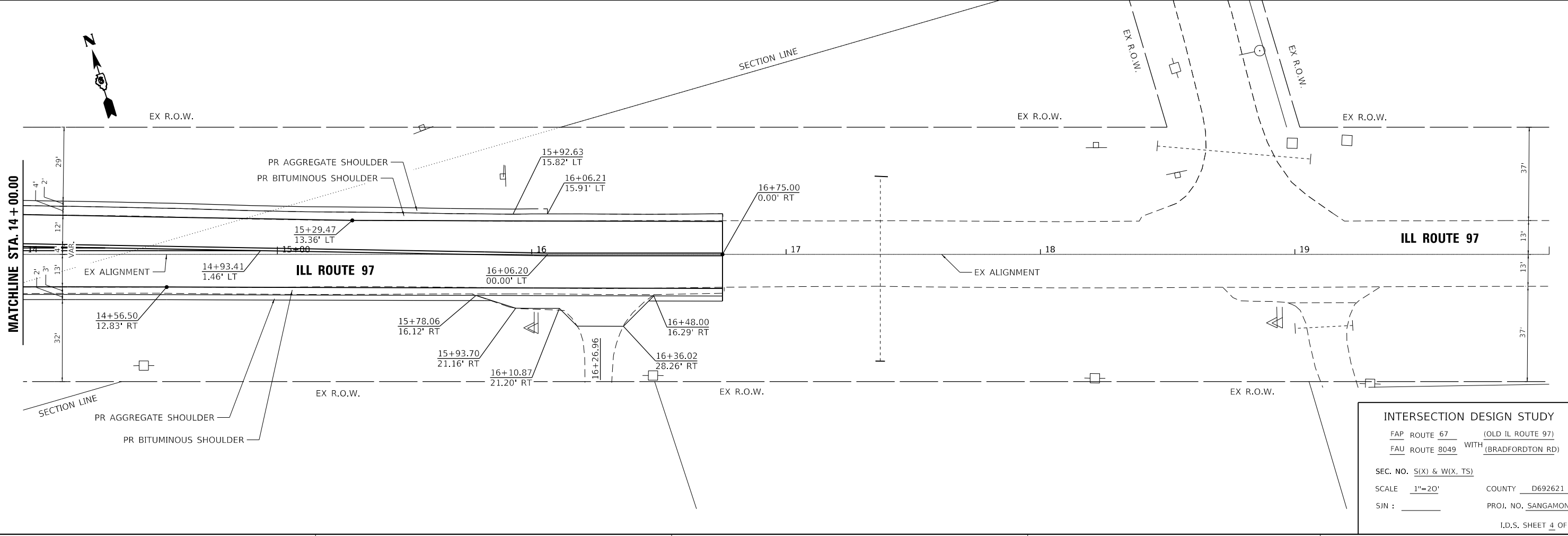
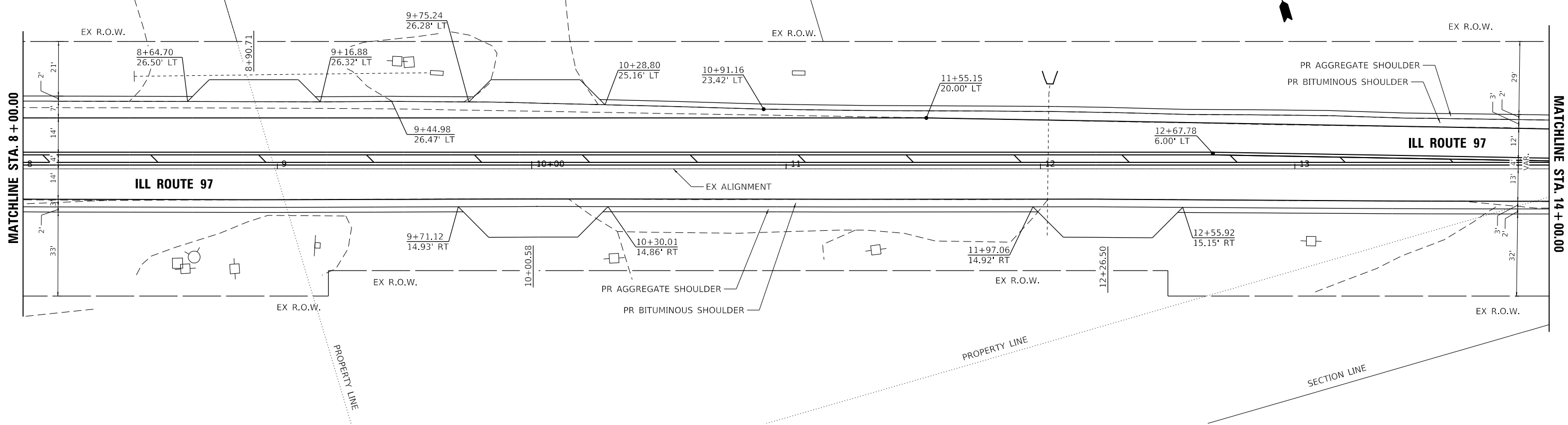
SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY D692621

SJN : _____ PROJ. NO. SANGAMON

I.D.S. SHEET 3 OF 7

PLOT DATE 2/18/2019
FILE NAME p:\s\planroom\dot\illinois.gov\PI\DOT\Documents\IDOT - Offices\District 6\Projects\0692621\CAD\Bdata\Geometrics\0692621-Final_IDS.dgn
PLOT SCALE 40.0000' / in.
USER NAME shahdm



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (OLD IL ROUTE 97)

FAU ROUTE 8049 WITH (BRADFORDTON RD)

SEC. NO. 5(X) & W(X, TS)

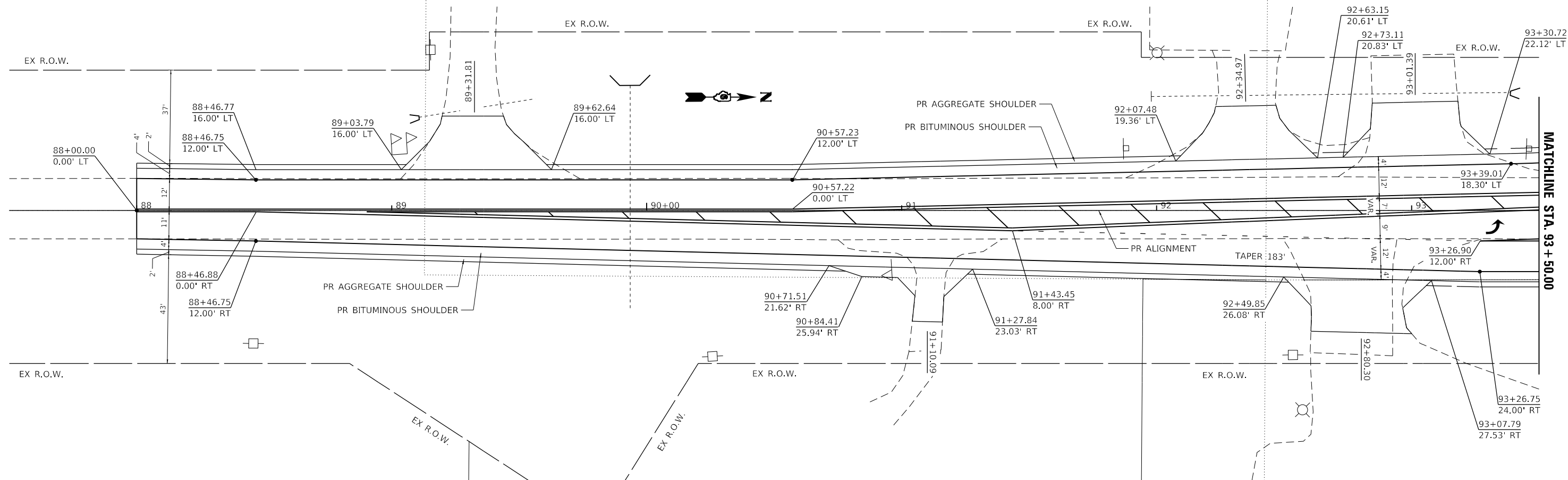
SCALE 1"=20'

COUNTY D692621

SJN :

PROJ. NO. SANGAMON

I.D.S. SHEET 4 OF 7



INTERSECTION DESIGN STUDY

FAP ROUTE 67 (OLD IL ROUTE 97)
FAU ROUTE 8049 WITH (BRADFORDTON RD)

SEC. NO. S(X) & W(X, TS)

SCALE 1"=20' COUNTY D692621

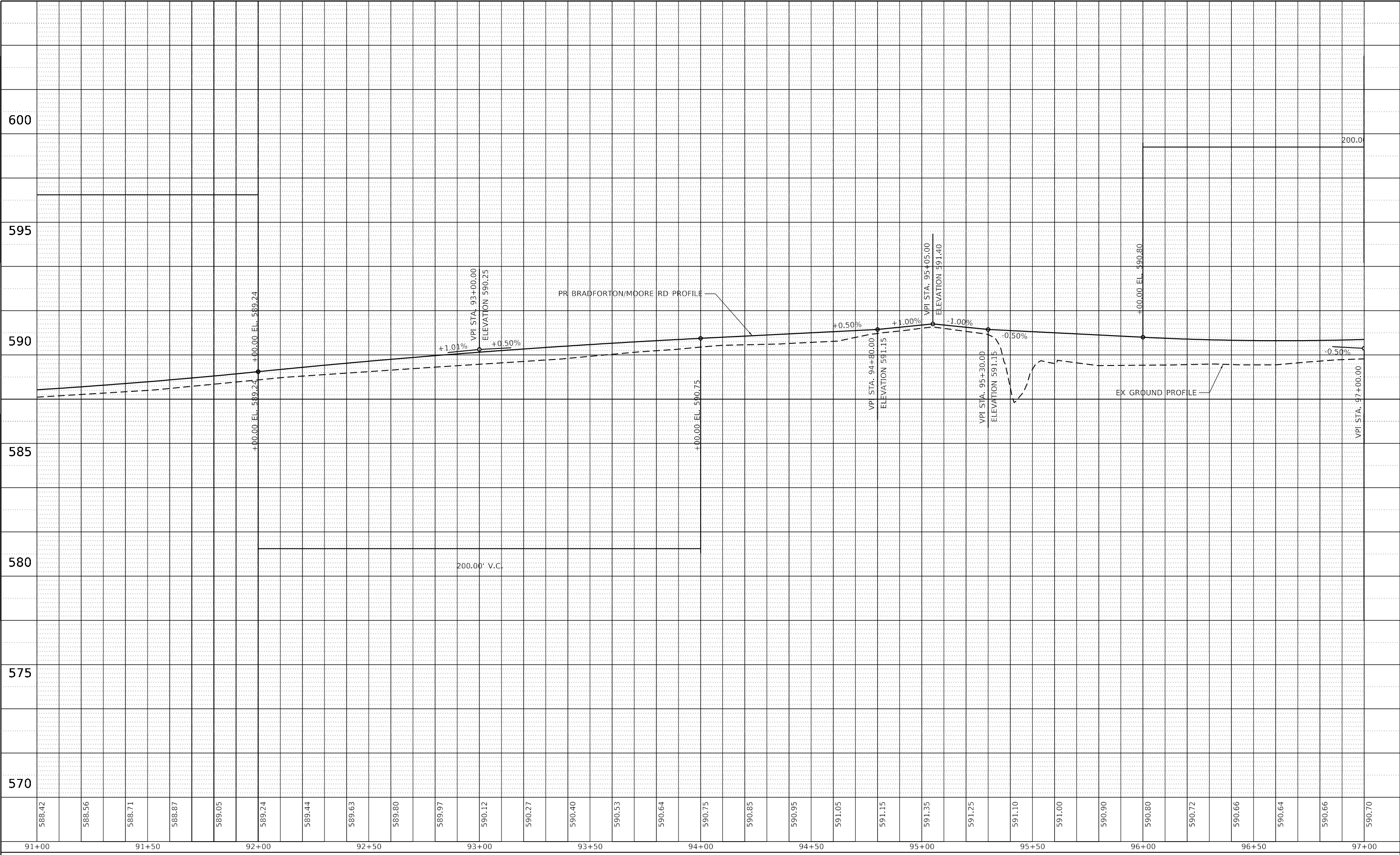
SJN : _____ PROJ. NO. SANGAMON

I.D.S. SHEET 5 OF 7

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	CADD FILE NAME		
NO.			

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

MODEL: Default
FILE NAME: p:\caddroom\dot\illinois\gov\PIVDOT\Documents\DOT_Offices\District 6\Projects\ID692621\Cadd\Data\Geometrics\ID692621-Final.ID5.cgm



USER NAME	= shahdm	DESIGNED	-
		DRAWN	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-
PLOT DATE	= 3/18/2019	DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE
PR BRADFORTON ROAD

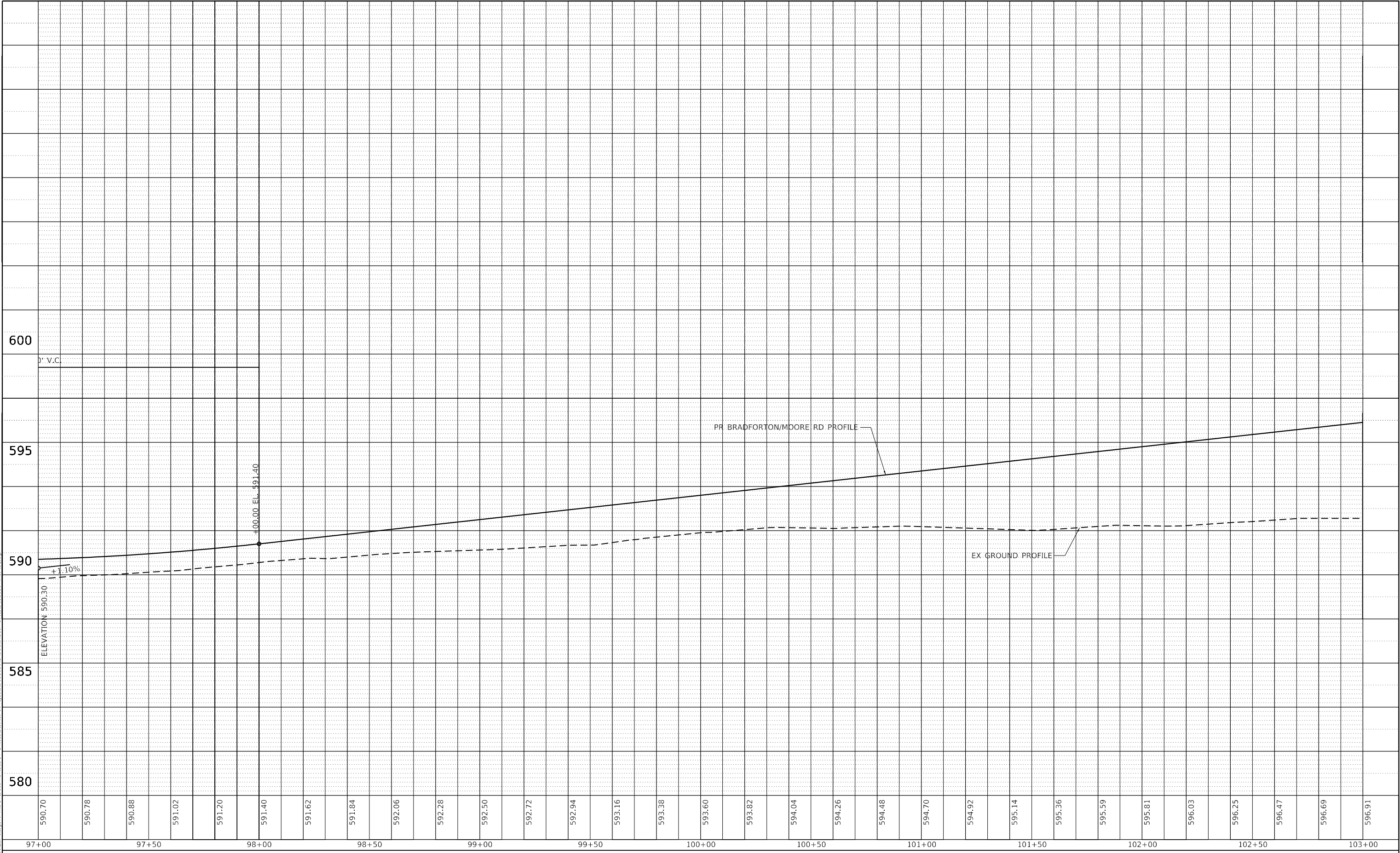
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	7	6
CONTRACT NO. 92621				
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default
FILE NAME: p:\c:\planningroom\dot\illinois\gov\PIVDOT\Documents\DOT Offices\District 6\Projects\ID692621\CaddData\Geometrics\ID692621-Final ID65.dgn



USER NAME = shahdm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR PROFILE
PR BRADFORDTON ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	7	7
CONTRACT NO. 92621				
ILLINOIS FED. AID PROJECT				