

REQUIREMENTS FOR PAVEMENT ANALYSIS

A. Location Information

<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Location Map Scope of Requested Work (from Project Report) Existing and Proposed Typical Cross Sections Existing and Proposed Intersection Geometry Including Turn Bay and Taper Lengths, Widths (IDS-OK), All Plan Sheets for Reconstruction	Route: FAU Route 1581 (111th Street) Target Letting: _____ 1 Designer: HLR/Denise Herrera Section: _____ 1
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Highway Type (FAI, FAP, FAU, FAS) IBR <u>3</u> (Source) <u>WSS - Web Soil Survey</u> Soil Profile Done (Y/N) <u>N</u> Pavement Cores (Y/N) <u>N</u>	Contract #: _____ 1 Job #: <u>P-91-561-10</u> 1 Area: Rural <input type="checkbox"/> Urban <input checked="" type="checkbox"/>

B. Pavement History (State Maintenance Pavements)

Roadway Limits	Original Pavement 2			Widening 2			1st Resurfacing 2		2nd Resurfacing 2		CRS	Year
	Year	Thickness/Type	Width	Year	Thickness/Type	Width	Year	Thickness	Year	Thickness		
111th Street 18+52 - 33+00 33+00 - 50+00 50+00 - 58+00	Unk.	9" PCC	18'	1987	9" PCC	0-10'					5.8	2012
	Unk.	9" PCC	18'	1932	7" PCC	0-12'	1990	1.5"				
	Unk.	9" PCC	18'	1977	10" PCC	0-12'					8	2012

C. Project Description

Roadway Limits	Resurfacing 2			Widening 2			Reconstruction 2			Shoulders 2			
	Width	Length	Type*	Width	Length	SM(SY)	Width	Length	SM (SY)	C&G Type	R/L	Type	Width
111th Street	40'-44'	4000'	Cosmetic	0'-6'	Varies	2,200 sy	55'	500'	3055 sy	B-6.24	R		
Southwest Highway	48'-60'	1300'	Cosmetic	0'-8'	Varies	700 sy				B-6.24	R		
Harlem Avenue	60'	100'	Cosmetic										

*Structural/Cosmetic

- 1 Data can be available from DOL or Program Development.
- 2 Data should be provided if the scope of work includes pavement widening and/or pavement reconstruction.
If data is not available, Bureau of Material should be asked for borings prior to submitting this request.

REQUIREMENTS FOR PAVEMENT ANALYSIS

D. Mainline Traffic Considerations

Mainline	Limits	Roadway Class	Current	Proposed	Existing				Projected	
		I, II, III, IV 3	Jurisdiction.	JT (Y/N)	Year	ADT	% MU 4	% SU 4	Year 4	ADT 4
111th Street	IL Rte 7 to IL Rte 43	I	IDOT	N	2010	25,300-31,450	0.2%	1.8%	2040	26,000-32,000
Crossroad										
IL Route 43 (Harlem)		I	IDOT	N	2010	32,650-37,500	1%	2%	2040	34,000-38,000
IL Route 7 (SW Hwy)		I	IDOT	N	2010	22,000-27,000	0.3%	2%	2040	24,000-29,000
Oketo Avenue		IV	Worth	N	2010	250-950	0%	2%	2040	500-1,000

E. Intersection Characteristics

Crossroad	Roadway Class	Hwy Type 5	Juris. *	Pavt. Type Req.	Exist. Pav't Thickness	ADT	Signals	2 Way ^	All Way	Skidproof Prop. (Y/N)	High Stress (Y/N) 7
							(Y/N)	Stop 6 (Y/N)	Stop ^ (Y/N)		
IL Route 43 (Harlem)	I	Other Princ. Art.	IDOT	HMA	Unk.	37,500	Y	N	N	N	N
IL Route 7 (SW Hwy)	I	Minor Arterial	IDOT	HMA	Unk.	27,800	Y	N	N	N	N
Oketo Avenue	IV	Local Street	Worth	HMA	Unk.	950	Y	N	N	N	N

*Note: For roads which are or will be under local jurisdiction, information from the local agency specifying any pavement requirements is required in writing with this pavement design request.

^ If existing intersection is unsignalized, state whether there is potential for immediate signalization.

F. Restriction/Considerations (i.e. shallow utilities, vertical clearances, club restraints, location of grades exceeding 3.5%, etc.)

None											
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S:\SS\Projsup\PAVMTDES\1Requirements for Pavement Analysis.xls

3 See BDE Manual Section 54-.....

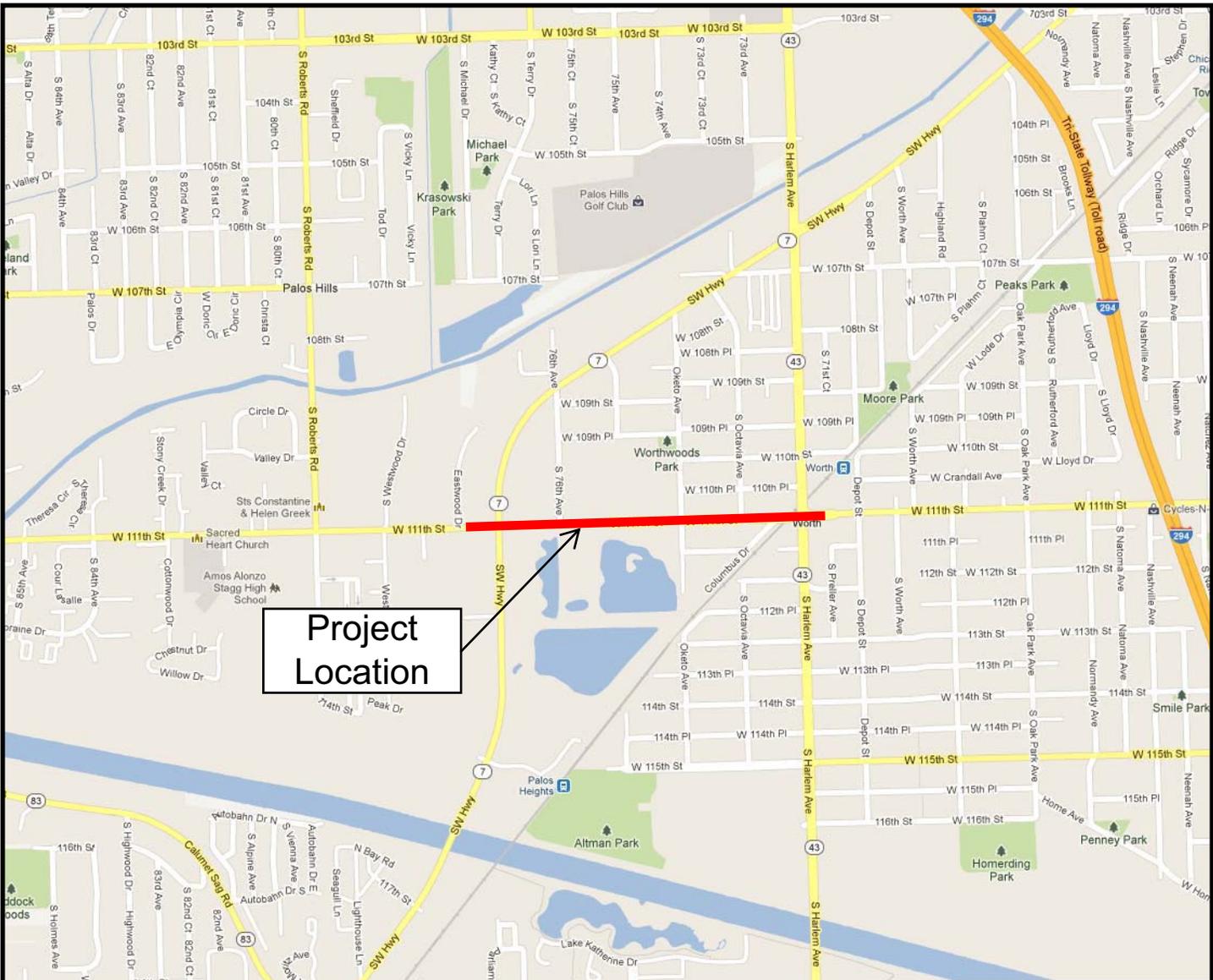
4 Data should be provided if the scope of work includes pavement widening and/or pavement reconstruction.

State whether normally MU Trucks will full in both directions or in one direction.

5 See BDE Manual Section.....

6 Mention the legs on which STOP Signs are installed.

7 See BDE Manual Section



**Project
Location**

Exhibit 1

**Location Map
111th Street**

Hampton, Lenzini and Renwick, Inc.

Civil & Structural Engineers · Land Surveyors · Environmental Services



ELGIN · SPRINGFIELD · ROMEOVILLE

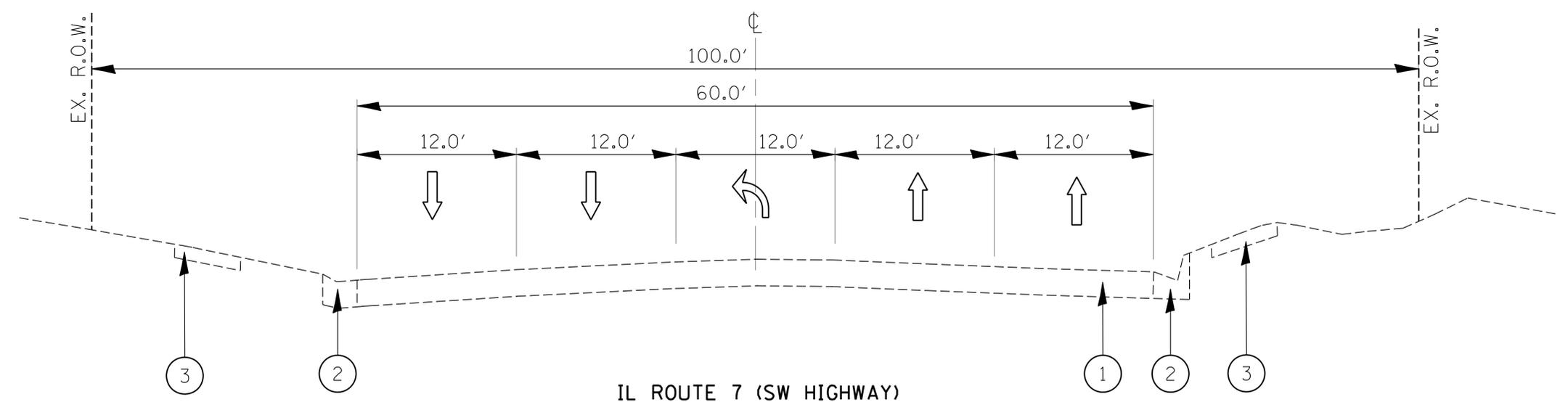
www.hltrengineering.com

184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

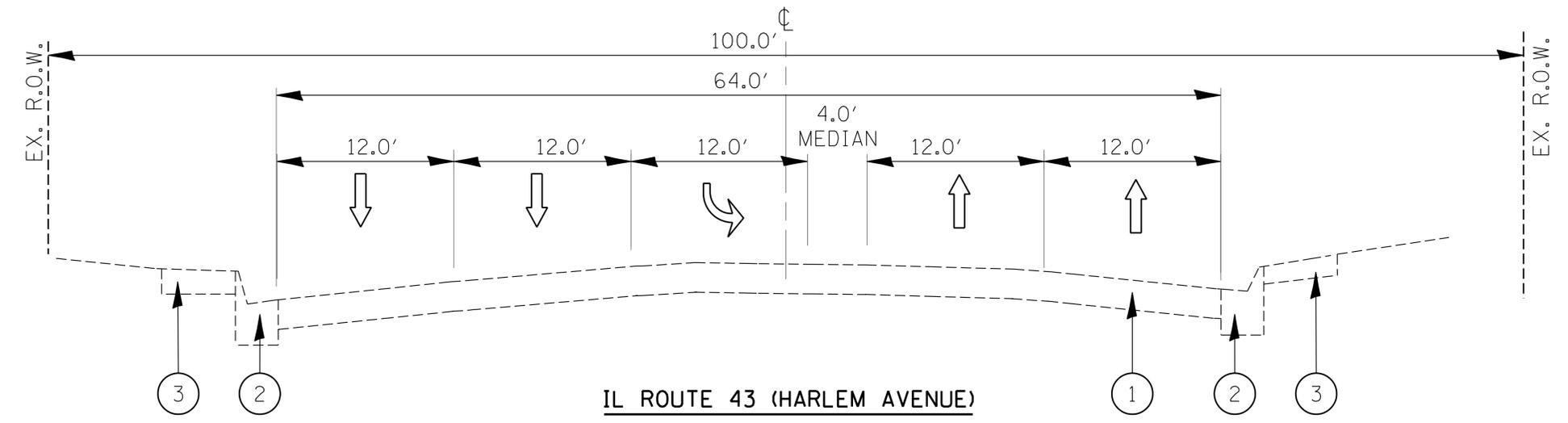
Scope of Work

The following represents the scope of work associated with Phase I Engineering for the improvement of 111th Street from IL Route 7 (Southwest Highway) to IL Route 43 (Harlem Avenue). The total project length is approximately 0.75 miles. The scope of work for this project includes widening of 111th Street to include a two-way left-turn lane median and curb & gutter throughout the project length. The majority of the project includes widening and resurfacing, though there is a short section of reconstruction along 111th Street. There will also be right-turn lanes added to three legs of the 111th Street & Southwest Highway intersection. IL Route 43 (Harlem Avenue) is an SRA within the project limits

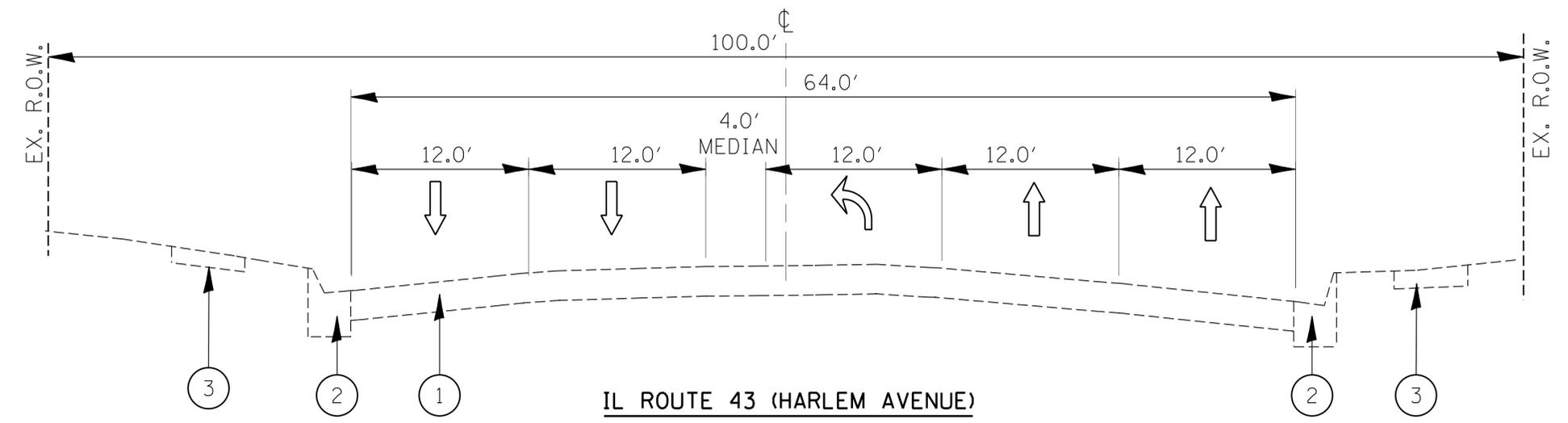
- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING B6-24 C&G
- ③ EXISTING SIDEWALK
- ④ EXISTING SHOULDER



IL ROUTE 7 (SW HIGHWAY)
TYPICAL SECTION AT 111TH STREET INTERSECTION

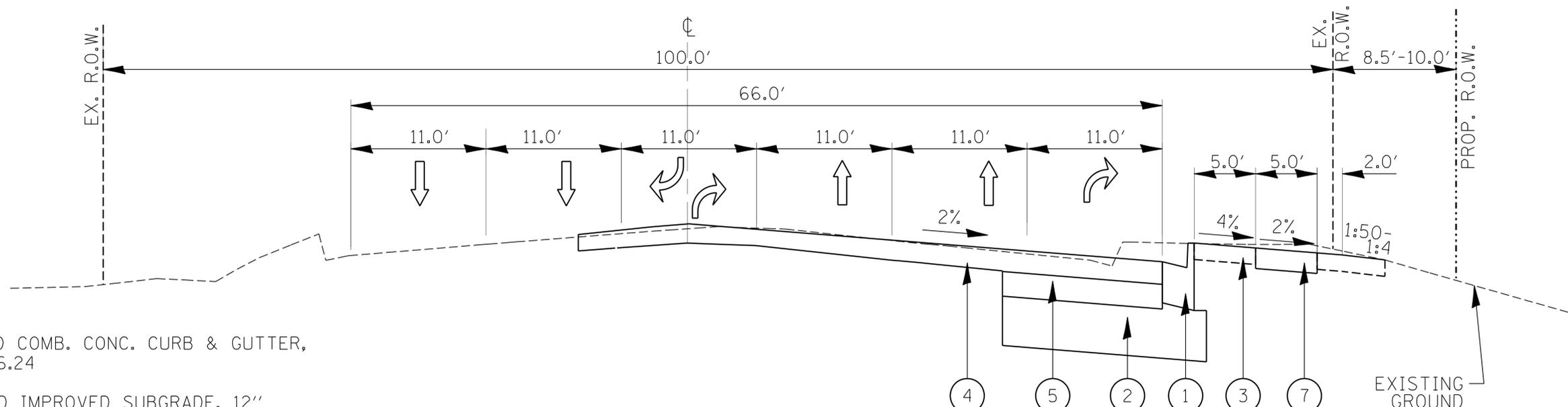


IL ROUTE 43 (HARLEM AVENUE)
NORTH APPROACH AT 111TH STREET INTERSECTION



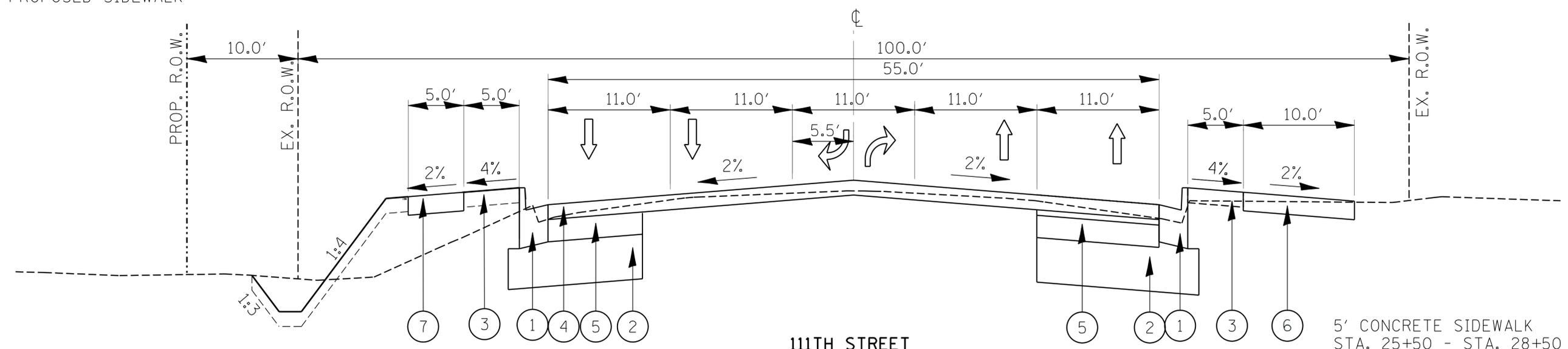
IL ROUTE 43 (HARLEM AVENUE)
SOUTH APPROACH AT 111TH STREET INTERSECTION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTION			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\2010\100078\cad\phase 1\dwg\100078-sh\typsections.dgn		DRAWN -	REVISED -		IL ROUTE 7 (SW HIGHWAY) & IL ROUTE 143 (HARLEM AVENUE)			1581		COOK	5	1
PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -		SCALE: 1" = 10'					CONTRACT NO.		
PLOT DATE = 6/20/2012		DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				



- ① PROPOSED COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ② PROPOSED IMPROVED SUBGRADE, 12"
- ③ PROPOSED TOPSOIL, 6"
- ④ PROPOSED CONCRETE PAVEMENT, 12"
- ⑤ PROPOSED GRANULAR SUB-BASE, 7"
- ⑥ PROPOSED BIKE PATH
- ⑦ PROPOSED SIDEWALK

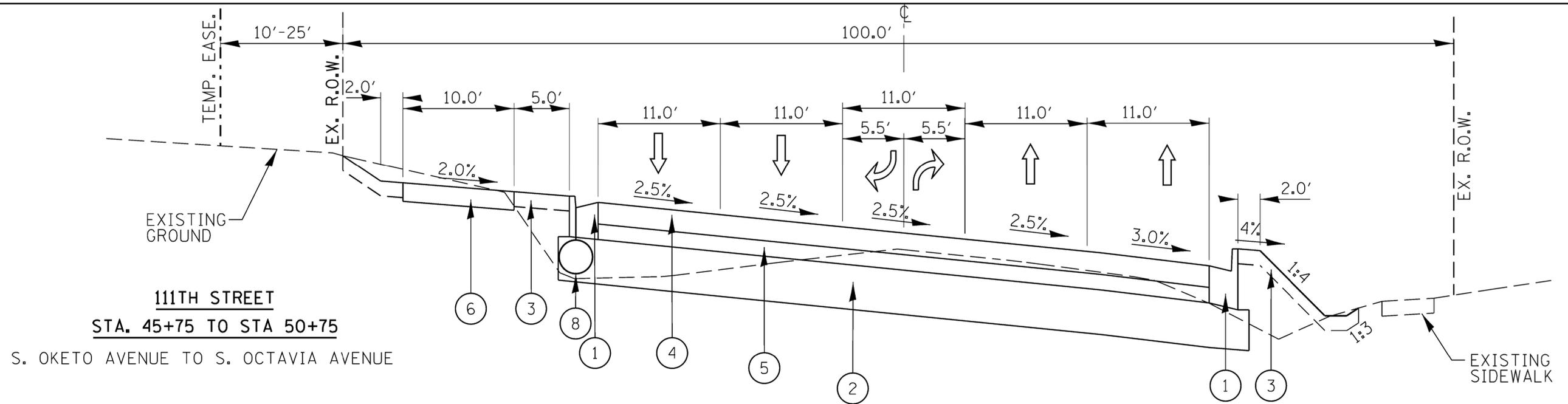
111TH STREET
STA. 18+50 TO STA 25+50
 WEST OF S. EASTWOOD DRIVE TO IL ROUTE 7 (SW HIGHWAY)



111TH STREET
STA. 25+50 TO STA 45+75
 IL ROUTE 7 (SW HIGHWAY) TO S. OKETO AVENUE

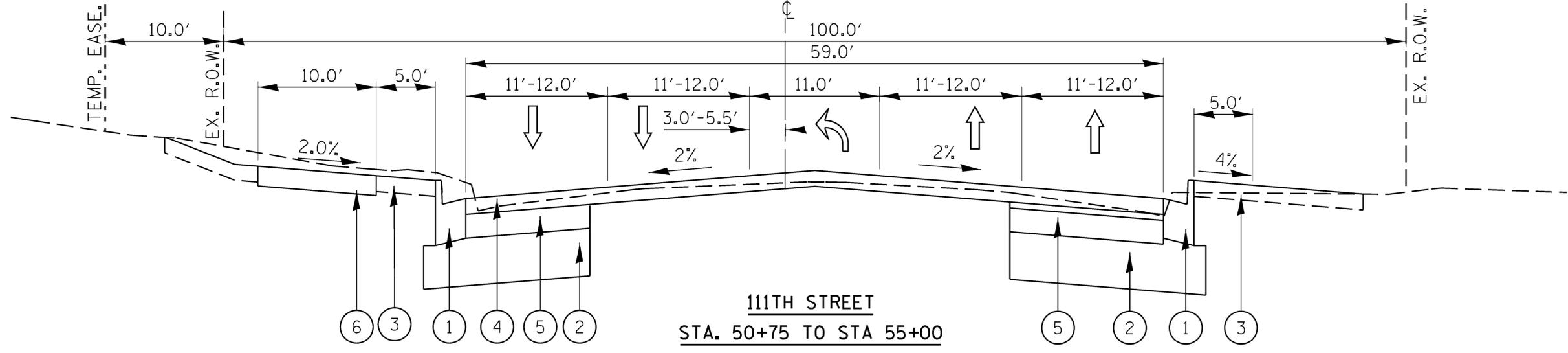
5' CONCRETE SIDEWALK
 STA. 25+50 - STA. 28+50
 10' BIKE PATH
 STA. 28+50 - STA. 44+50

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTION 111TH STREET			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -								CONTRACT NO.		
PLOT DATE = 2/7/2012		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		



111TH STREET
STA. 45+75 TO STA 50+75

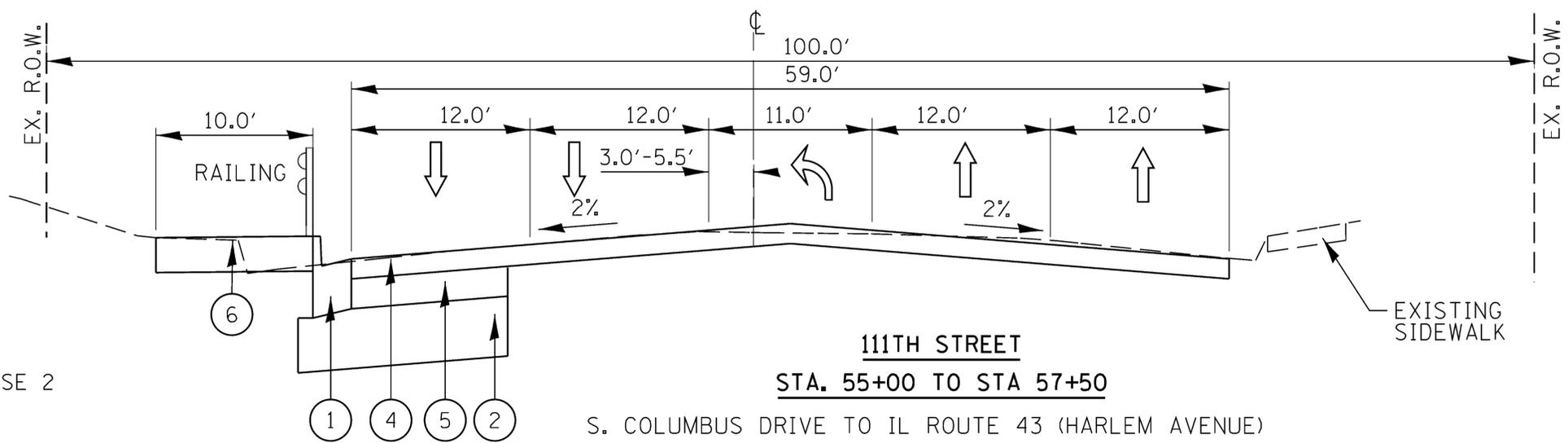
S. OKETO AVENUE TO S. OCTAVIA AVENUE



111TH STREET
STA. 50+75 TO STA 55+00

S. OCTAVIA AVE. TO IL ROUTE 43 (HARLEM AVENUE)

- ① PROPOSED COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ② PROPOSED IMPROVED SUBGRADE, 12"
- ③ PROPOSED TOPSOIL, 6"
- ④ PROPOSED CONCRETE PAVEMENT, 12"
- ⑤ PROPOSED GRANULAR SUB-BASE, 7"
- ⑥ PROPOSED BIKE PATH
- ⑦ PROPOSED SIDEWALK
- ⑧ SLOTTED DRAIN, TO BE DESIGNED IN PHASE 2



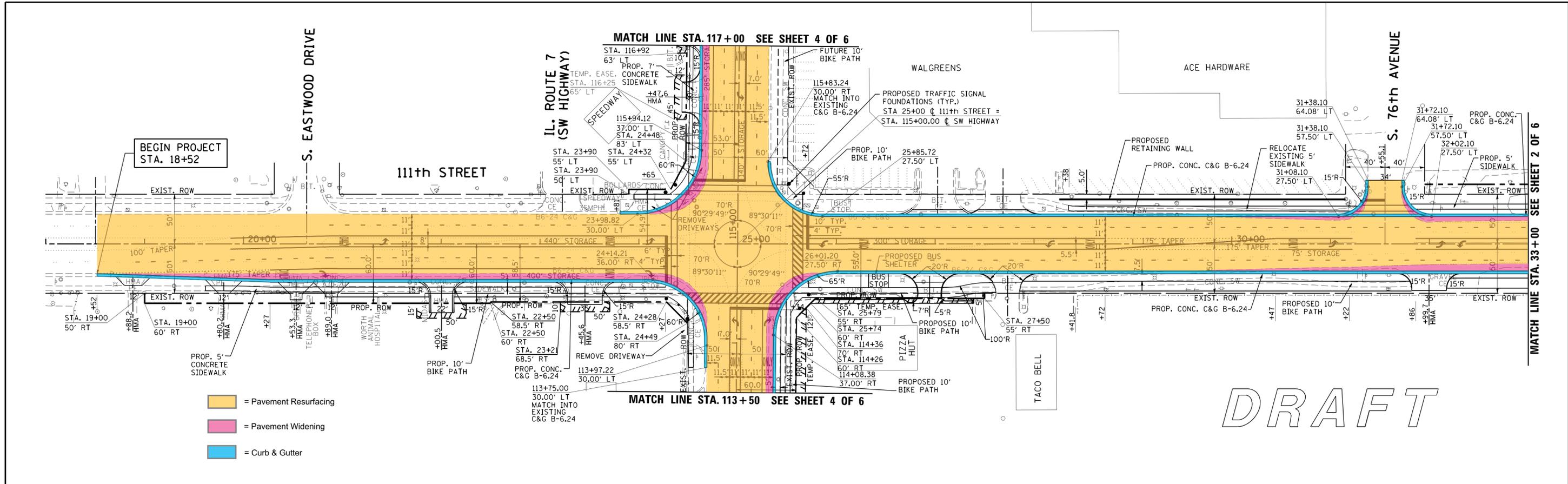
111TH STREET
STA. 55+00 TO STA 57+50

S. COLUMBUS DRIVE TO IL ROUTE 43 (HARLEM AVENUE)

FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTION 111TH STREET			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 12/20/2012	DATE -	REVISED -										
CONTRACT NO.											ILLINOIS FED. AID PROJECT		

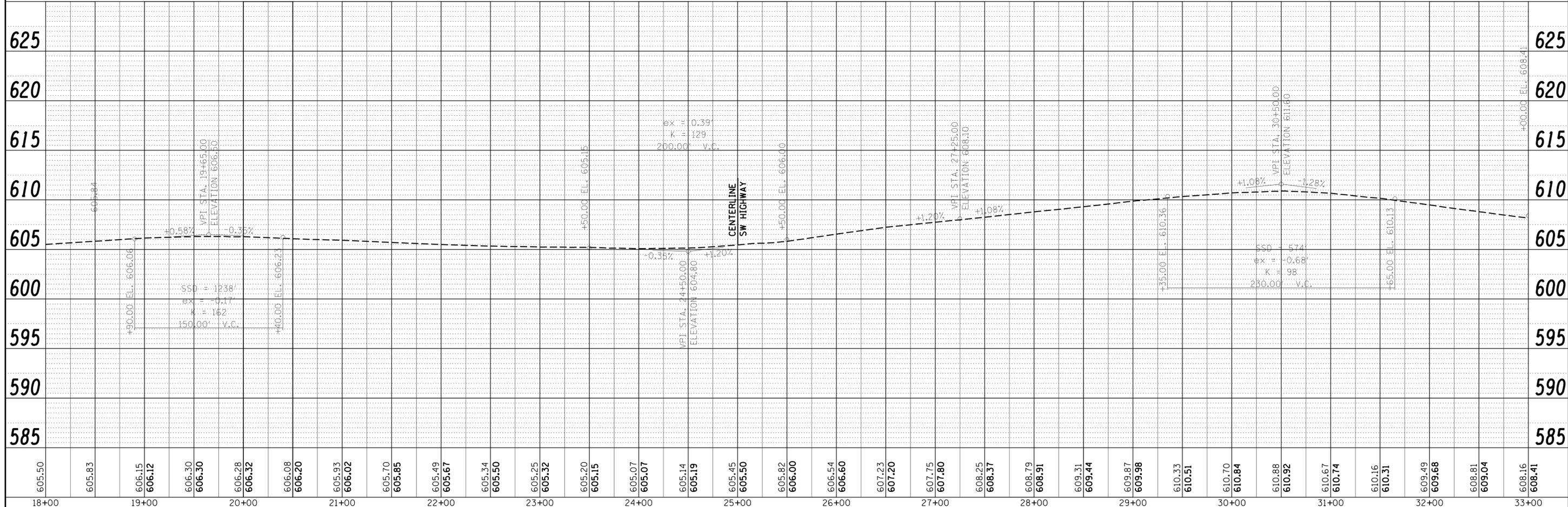
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	PLOTTED		
	CHECKED		
	AT		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	NO.		



- = Pavement Resurfacing
- = Pavement Widening
- = Curb & Gutter

DRAFT



FILE NAME =	DESIGNED - JMH	REVISED -	STATE OF ILLINOIS	111TH STREET
P:\2010\100078\cad\phase 1\dwg\100078-shp\prf-111.dgn	DRAWN - JMH	REVISED -	DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN & PROFILE
PLOT SCALE = #SCALE#	CHECKED -	REVISED -		
PLOT DATE = 11/13/2012	DATE - AUGUST 2010	REVISED -		
			SCALE: 1" = 50'	SHEET NO. 1 OF 6 SHEETS STA. 18+00 TO STA. 33+00
				ILLINOIS FED. AID PROJECT

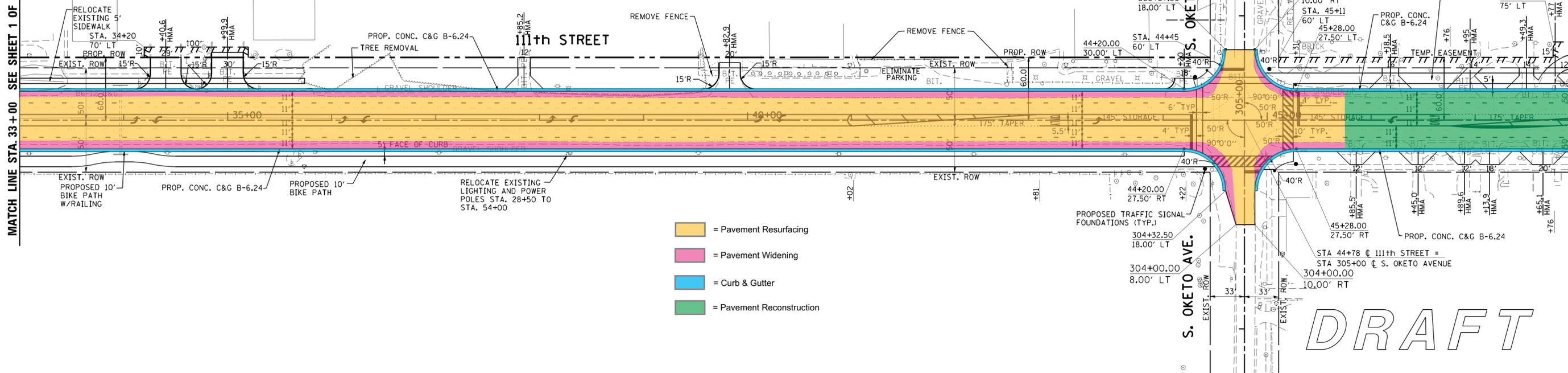
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NOTE BOOK NO.	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		

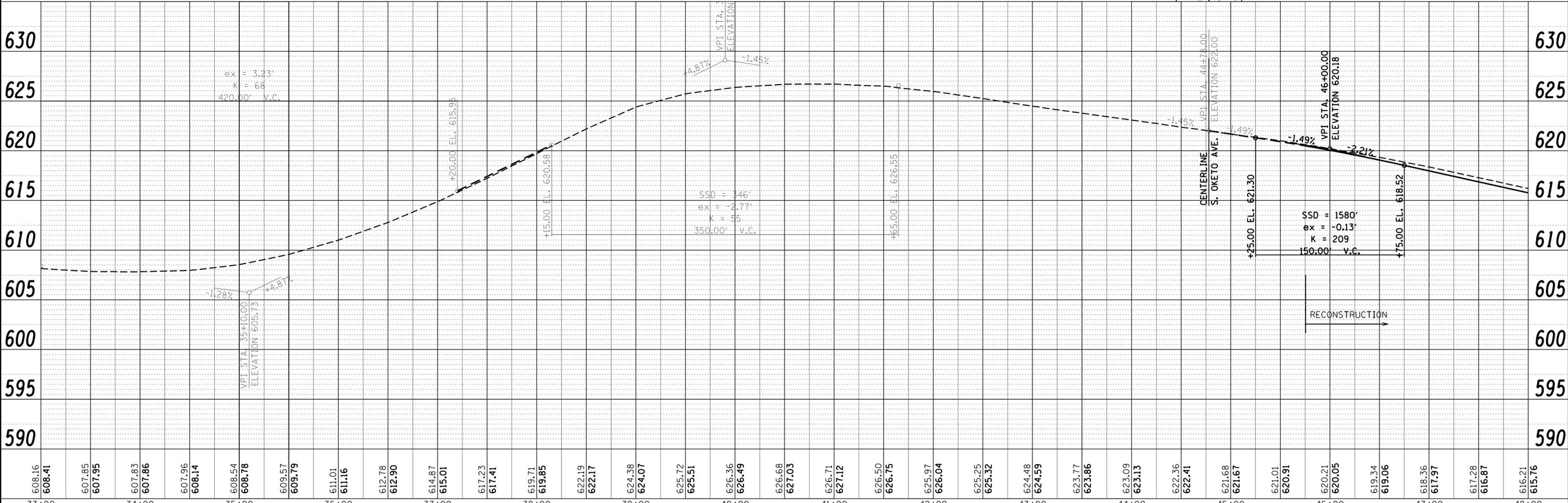
MATCH LINE STA. 33+00 SEE SHEET 1 OF 6

MATCH LINE STA. 48+00 SEE SHEET 3 OF 6

NOTE:
WEST BOUND LANES BETWEEN S. OKETO AVENUE
AND S. OCTAVIA AVENUE TRANSITION INTO AND
OUT OF A 2.5% SUPER ELEVATION TO MINIMIZE
IMPACT TO PRIVATE DRIVEWAYS ON THE NORTH.



DRAFT



FILE NAME =	USER NAME = #USER#	DESIGNED - JMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	11TH STREET PROPOSED PLAN & PROFILE		F.A.U. RT. 1581	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\2010\100078\cad\phase 1\dwg\100078-sh1p1nprf-111.dgn		DRAWN - JMH	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 6	STA. 33+00 TO STA. 48+00	COOK	6	2	
PLOT SCALE = #SCALE#		CHECKED -	REVISED -					CONTRACT NO.			
PLOT DATE = 11/13/2012		DATE - AUGUST 2010	REVISED -					ILLINOIS FED. AID PROJECT			

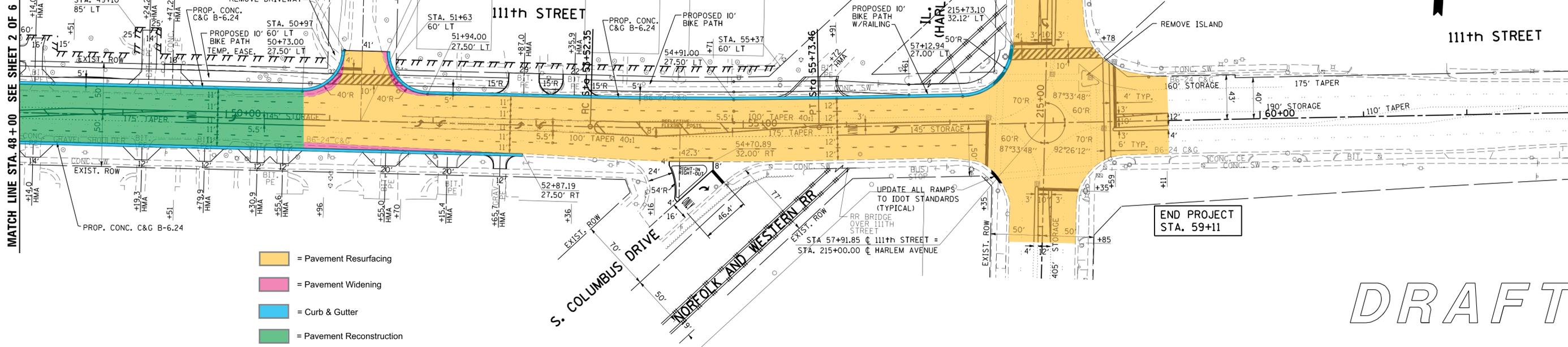
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	PLOTTED		
	CHECKED		
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	NO. 2		
	NO. 3		
	NO. 4		
	NO. 5		
	NO. 6		
	NO. 7		
	NO. 8		
	NO. 9		
	NO. 10		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHK'D		
	NO. 1		
	NO. 2		
	NO. 3		
	NO. 4		
	NO. 5		
	NO. 6		
	NO. 7		
	NO. 8		
	NO. 9		
	NO. 10		

NOTE:
WEST BOUND LANES BETWEEN S. OKETO AVENUE
AND S. OCTAVIA AVENUE TRANSITION INTO AND
OUT OF A 2.5% SUPER ELEVATION TO MINIMIZE
IMPACT TO PRIVATE DRIVEWAYS ON THE NORTH.

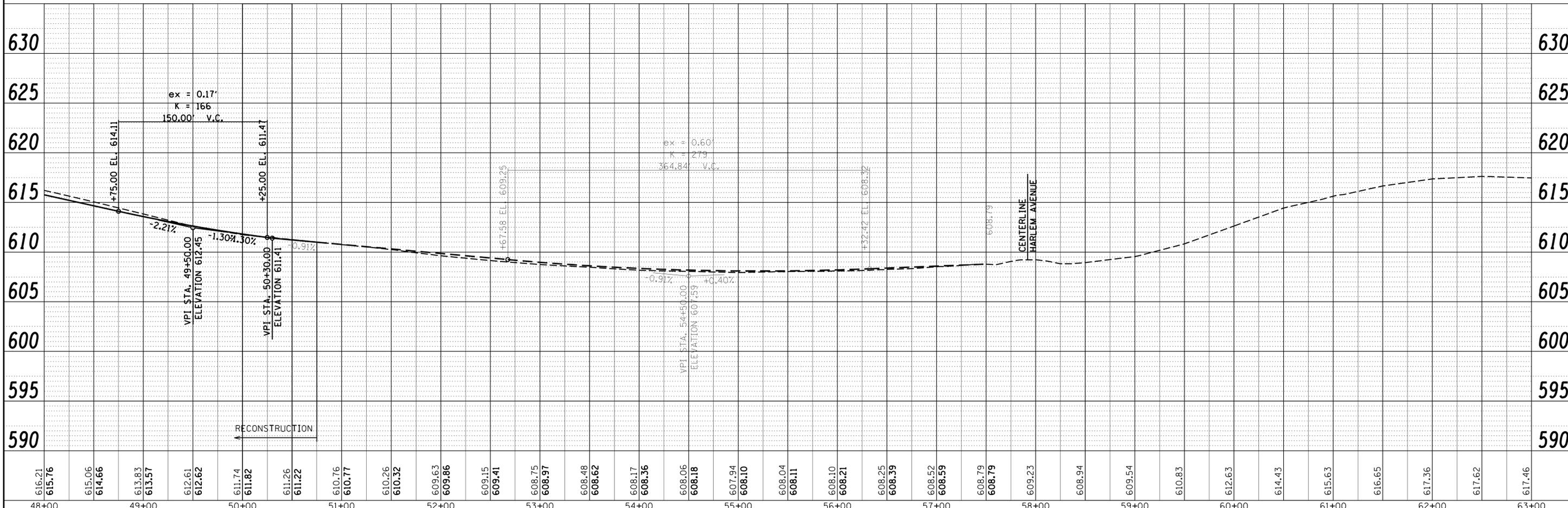
PROP. CURVE ONE001
PI STA. = 54+62.93
 $\Delta = 2^\circ 32' 01''$ (LT)
 $D = 1^\circ 08' 45''$
 $R = 5,000.00'$
 $L = 110.57'$
 $E = 1.22'$
P.C. STA. = 53+52.35
P.T. STA. = 55+73.46

MATCH LINE STA. 48+00 SEE SHEET 2 OF 6



- = Pavement Resurfacing
- = Pavement Widening
- = Curb & Gutter
- = Pavement Reconstruction

DRAFT



FILE NAME =	USER NAME = #USER#	DESIGNED - JMH	REVISED -
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PLOT DATE = 5/14/2012		DATE - AUGUST 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

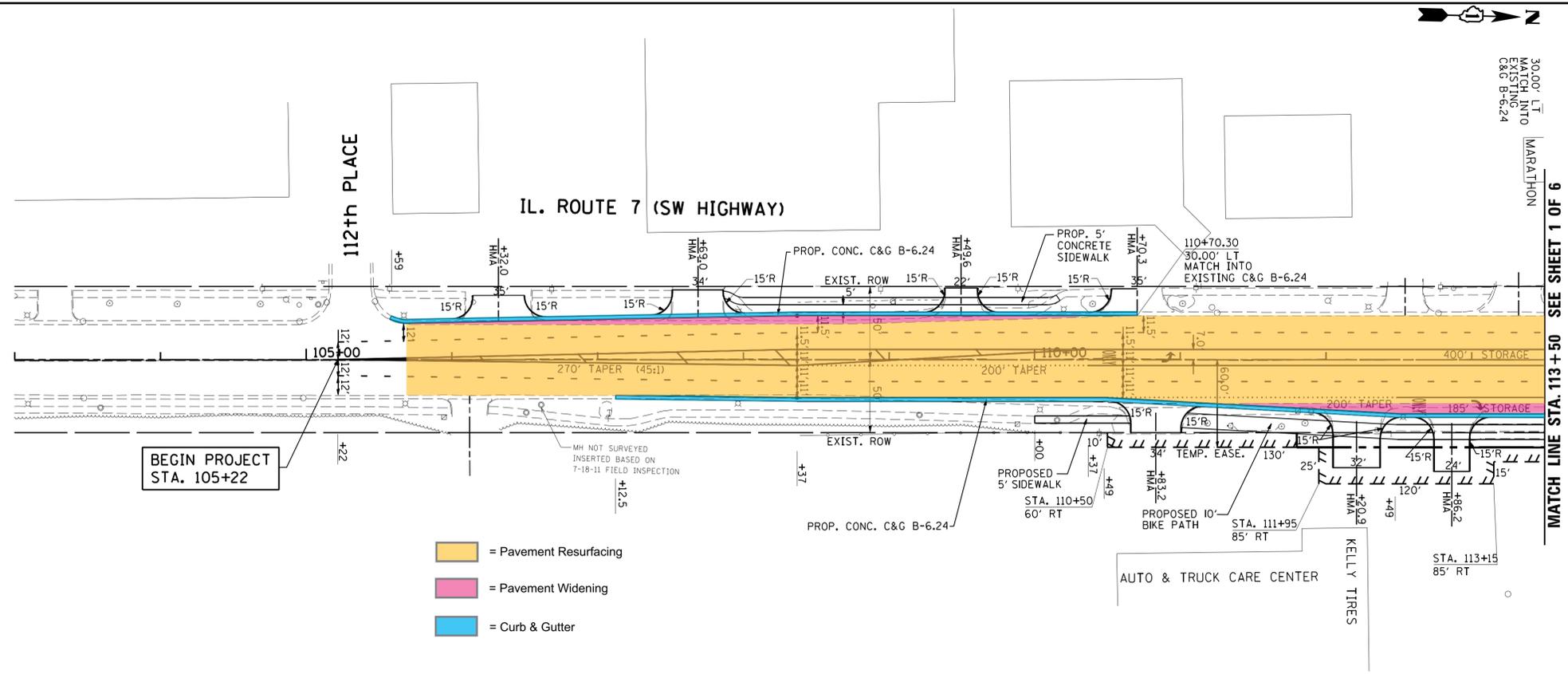
111TH STREET
PROPOSED PLAN & PROFILE

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 48+00 TO STA. 63+00

F.A.U. R.T.E. 1581	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	6	3
CONTRACT NO.				
(ILLINOIS) FED. AID PROJECT				

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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
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	CADD FILE NAME		

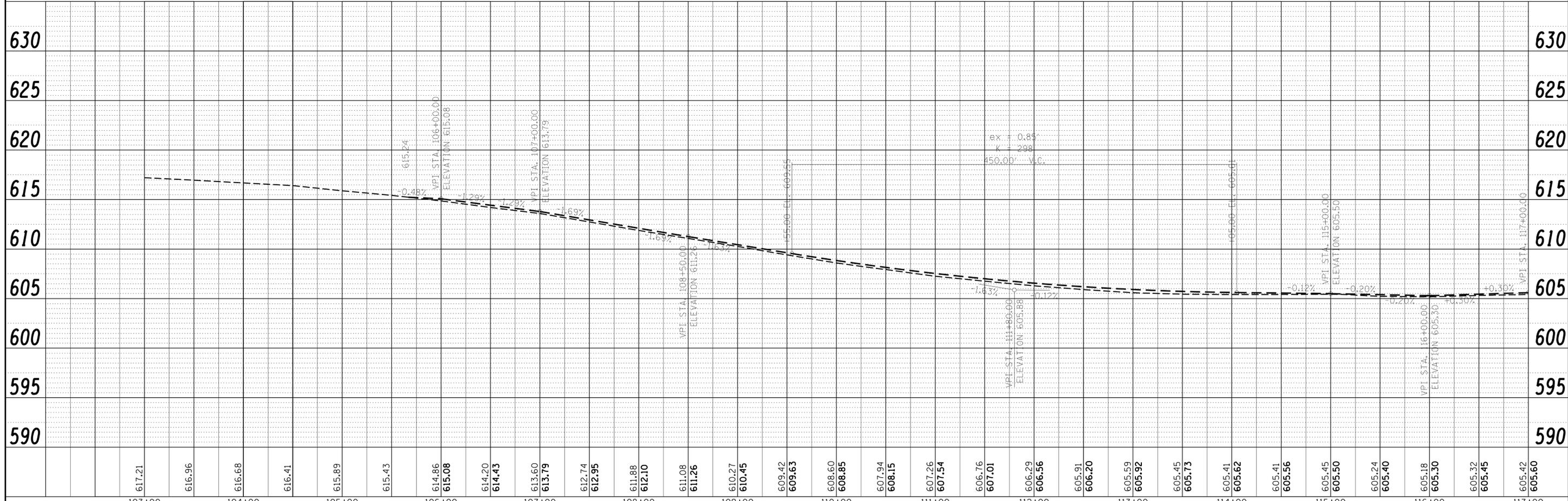


30.00' LT
MATCH INTO
EXISTING
C&G B-6.24
MARATHON
MATCH LINE STA. 113+50 SEE SHEET 1 OF 6

BEGIN PROJECT
STA. 105+22

- = Pavement Resurfacing
- = Pavement Widening
- = Curb & Gutter

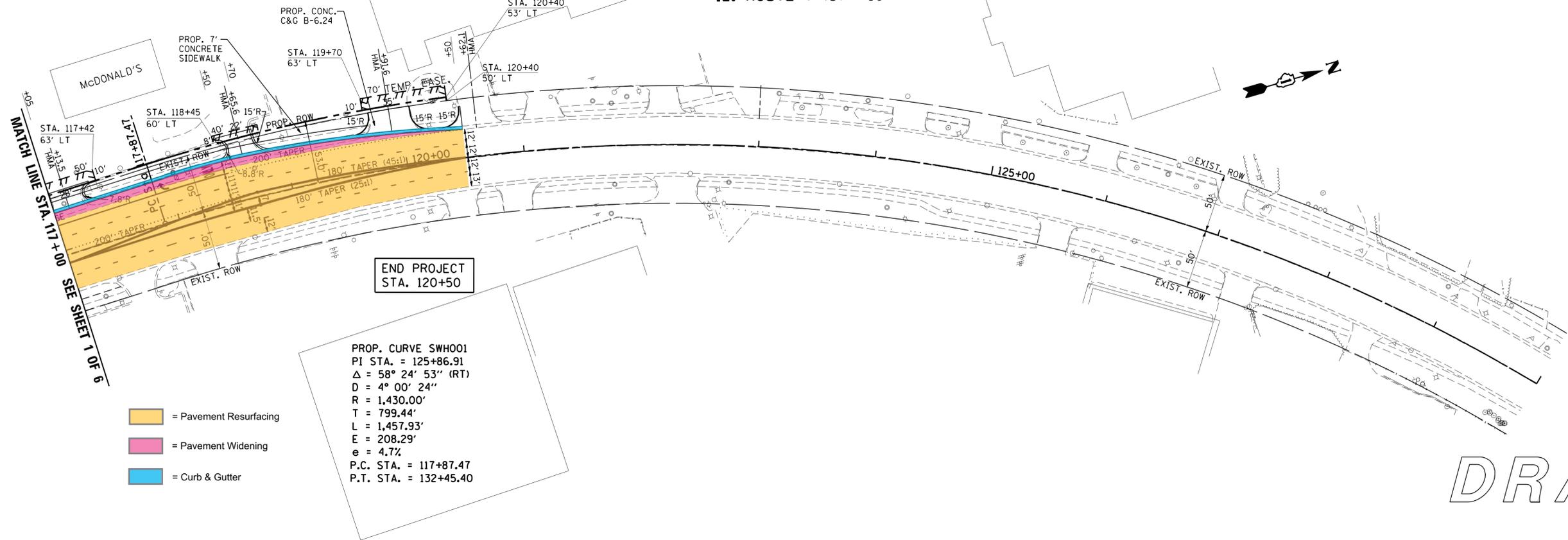
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FILE NAME =	USER NAME = \$USER\$	DESIGNED - JMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 7 (SW HIGHWAY) PROPOSED PLAN & PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\2010\100078\cad\phase 1\dwg\100078-shp\p1nprf-SWHy.dgn		DRAWN - JMH	REVISED -			1581		COOK	6	4
PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -			CONTRACT NO.				
PLOT DATE = 5/14/2012		DATE - AUGUST 2010	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 103+00 TO STA. 117+00

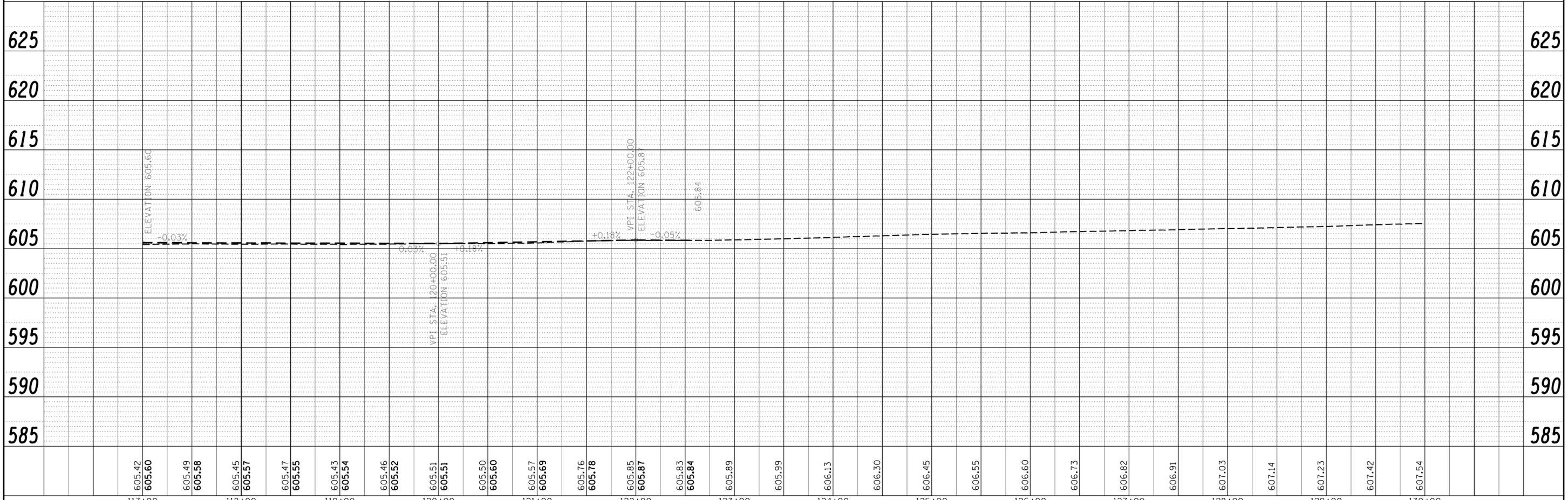
IL. ROUTE 7 (SW HIGHWAY)



DRAFT

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	



FILE NAME =	USER NAME = \$USER\$	DESIGNED - JMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 7 (SW HIGHWAY) PROPOSED PLAN & PROFILE	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -			CONTRACT NO.				
PLOT DATE = 5/14/2012		DATE - AUGUST 2010	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 117+00 TO STA. 130+00