



PELICAN DRIVE / SALISBURY STREET

BICYCLE PLAN

DESIGN RECOMMENDATIONS

ADOPTED 9.10.2009

Submitted by



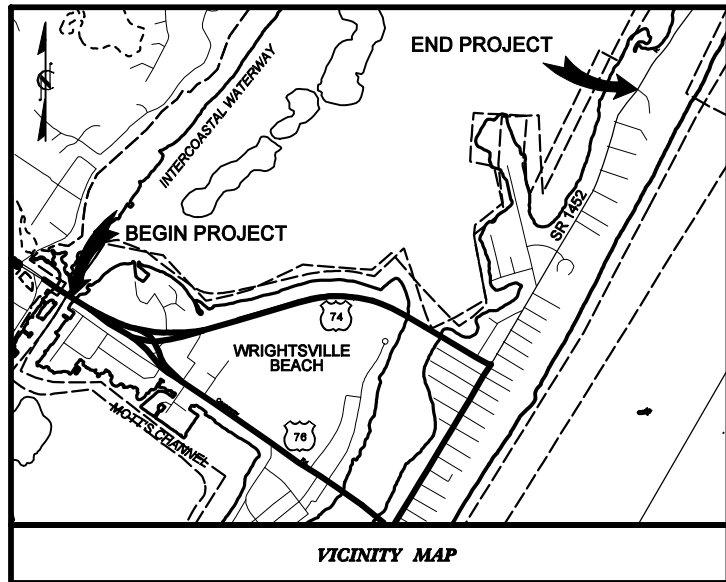
The Louis Berger Group, Inc.
Greene Transportation Solutions

8/19/2009
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REVISIONS

CONTRACT: N/A TIP PROJECT: N/A

CONTRACT: N/A



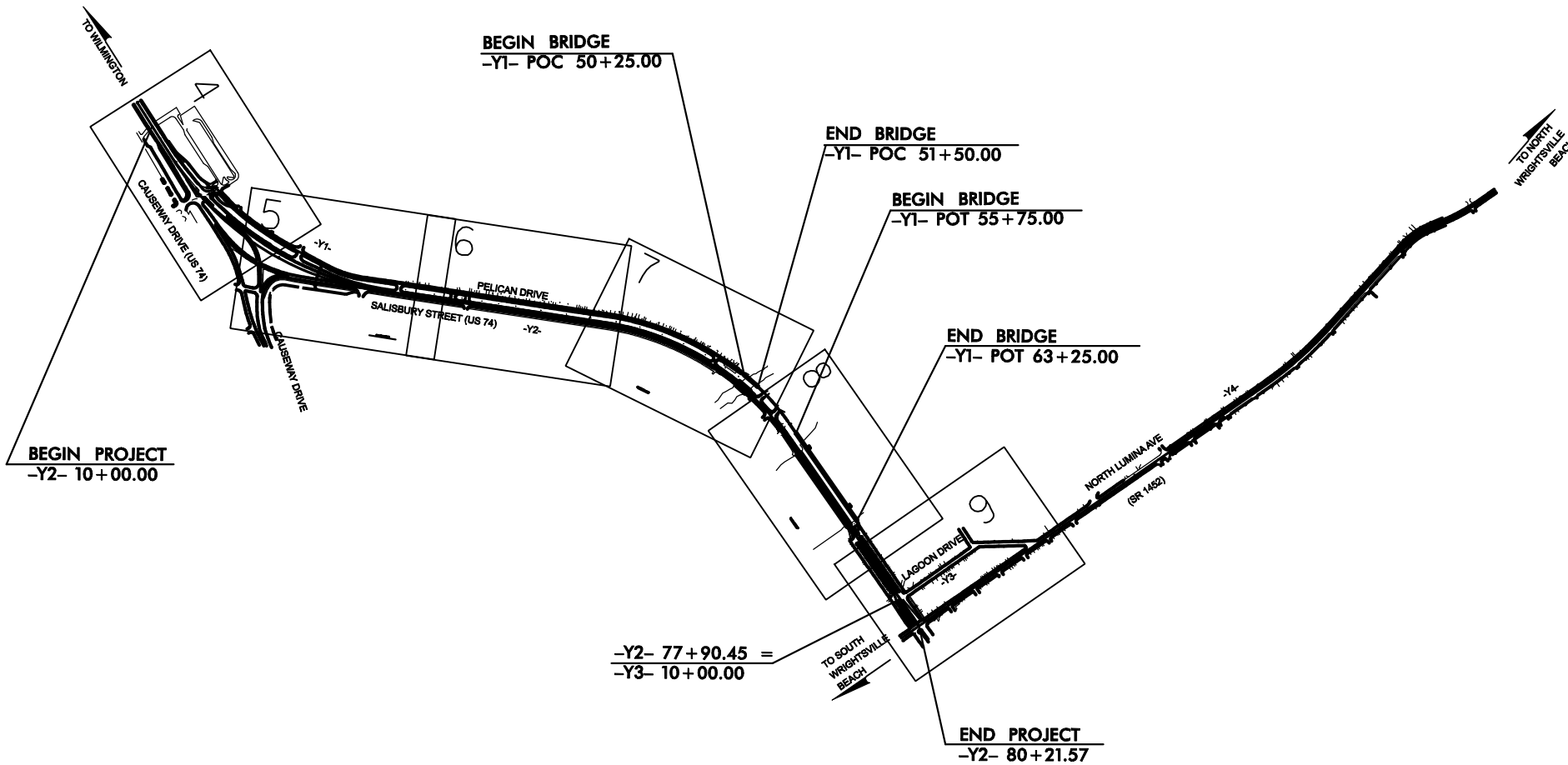
TOWN OF WRIGHTSVILLE BEACH
 WILMINGTON AREA METROPOLITAN
 PLANNING ORGANIZATION

DRAFT

WRIGHTSVILLE BEACH BICYCLE STUDY

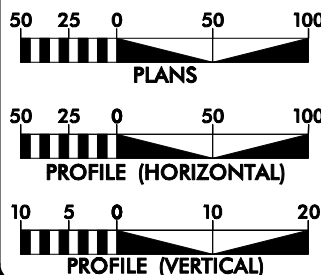
**LOCATION: CAUSEWAY DRIVE (US74), SALISBURY STREET (US 74),
 AND NORTH LUMINA (SR 1452)**
**TYPE OF WORK: GRADING, PAVING, TRAFFIC SIGNALS,
 PAVEMENT MARKING, AND STRUCTURES**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY PROJECT = 2.11 MILES
 LENGTH STRUCTURES PROJECT = 0.19 MILES
 TOTAL LENGTH PROJECT = 2.3 MILES



Prepared In the Office of:
THE LOUIS BERGER GROUP, Inc.
 1001 Wade Avenue, Suite 400
 Raleigh, North Carolina 27605

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

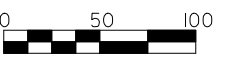
D. HATFIELD, PE
 PROJECT ENGINEER

LETTING DATE:

A. JESKE, EI
 PROJECT DESIGN ENGINEER

ROADWAY DESIGN
 ENGINEER

SIGNATURE: _____ P.E.

	PROJECT REFERENCE NO.	SHEET NO.
	JA2745	JA
ALTERNATIVE B		
INCOMPLETE PLANS <small>DO NOT USE FOR R/W ACQUISITION</small>		
PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small>		

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS AND GENERAL NOTES
1B	CONVENTIONAL SYMBOLS
2	SIGNING DETAILS
3A-3B	TYPICAL SECTIONS
4 THRU 9	PLAN SHEETS DESIGN ALTERNATIVE A
10 THRU 16	PLAN SHEETS DESIGN ALTERNATIVE B

GENERAL NOTES:

REVISIONS

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Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering



THE LOUIS BERGER GROUP, Inc.
1001 Wade Avenue, Suite 400
Raleigh, North Carolina 27605
(919)866-4400



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PROJECT REFERENCE NO. JA2745	SHEET NO. 1B
ALTERNATIVE	

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	↑
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	--- JS ---
Buffer Zone 1	--- BZ 1 ---
Buffer Zone 2	--- BZ 2 ---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	---
Proposed Lateral, Tail, Head Ditch	--- FLOW ---
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	--- E ---
Proposed Temporary Construction Easement	--- E ---
Proposed Temporary Drainage Easement	--- TDE ---
Proposed Permanent Drainage Easement	--- PDE ---
Proposed Permanent Utility Easement	--- PUE ---
Proposed Temporary Utility Easement	--- TUE ---
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C ---
Proposed Slope Stakes Fill	--- F ---
Proposed Wheel Chair Ramp	○ WCR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	○
Pavement Removal	-----

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	--- CONC WW ---
MINOR:	
Head and End Wall	--- CONC HW ---
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	□
Power Transformer	□
UG Power Cable Hand Hole	□ PH
H-Frame Pole	●
Recorded UG Power Line	----- P
Designated UG Power Line (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	□
UG Telephone Cable Hand Hole	□ PH
Recorded UG Telephone Cable	----- T
Designated UG Telephone Cable (S.U.E.*)	----- T
Recorded UG Telephone Conduit	----- TC
Designated UG Telephone Conduit (S.U.E.*)	----- TC
Recorded UG Fiber Optics Cable	----- T FO
Designated UG Fiber Optics Cable (S.U.E.*)	----- T FO

WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	○
Recorded UG Water Line	-----
Designated UG Water Line (S.U.E.*)	-----
Above Ground Water Line	--- A/G Water ---

TV:

TV Satellite Dish	▽
TV Pedestal	□
TV Tower	⊗
UG TV Cable Hand Hole	□ PH
Recorded UG TV Cable	----- TV
Designated UG TV Cable (S.U.E.*)	----- TV
Recorded UG Fiber Optic Cable	----- TV FO
Designated UG Fiber Optic Cable (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	○
Recorded UG Gas Line	----- G
Designated UG Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	--- A/G Gas ---

SANITARY SEWER:

Sanitary Sewer Manhole	○ S
Sanitary Sewer Cleanout	○
UG Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	--- A/G Sanitary Sewer ---
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown UG Line	-----
UG Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
UG Test Hole (S.U.E.*)	○
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

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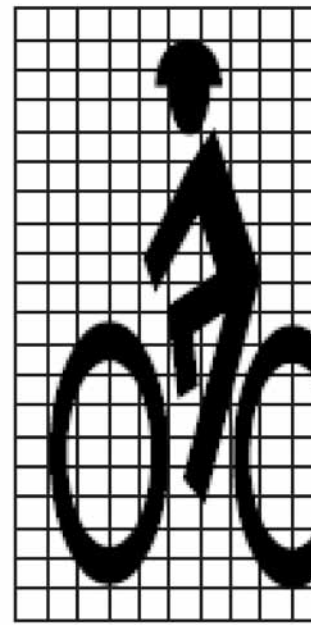



REVISIONS

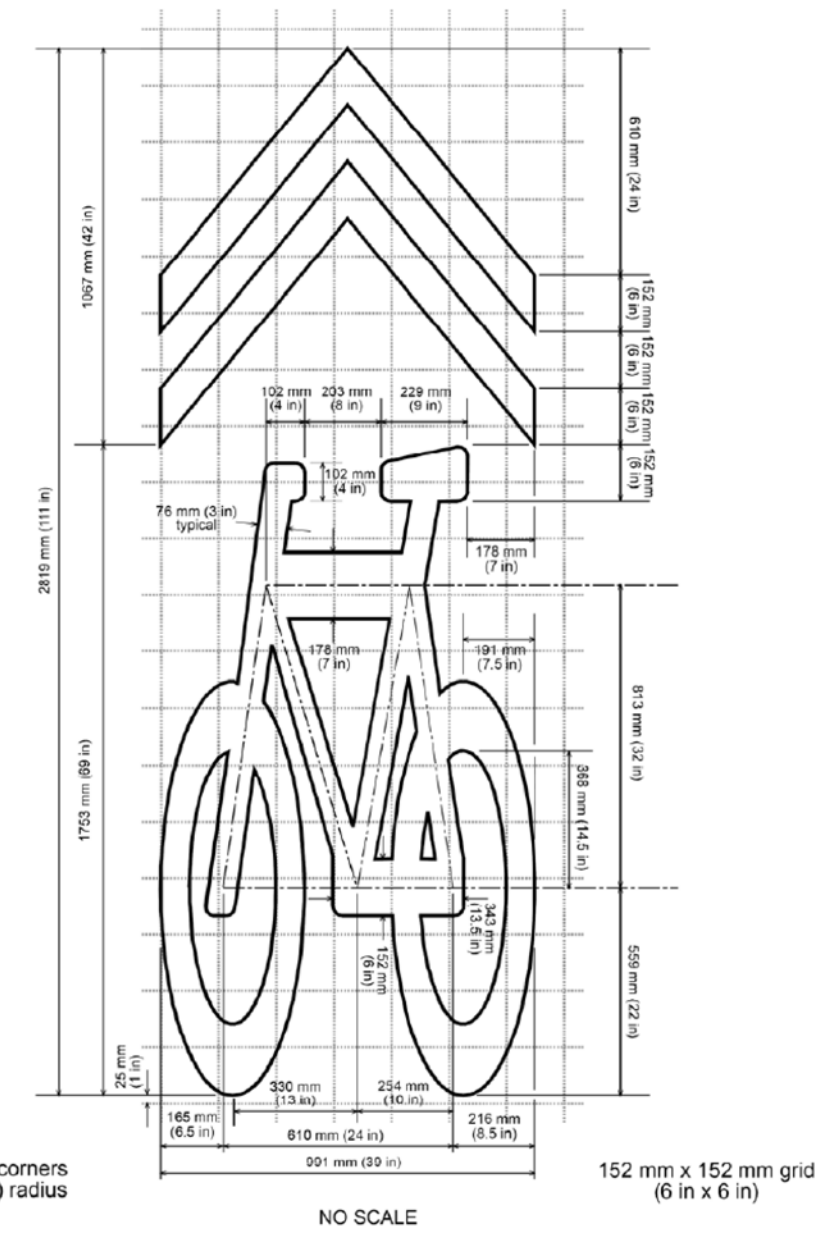
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FHWA 2007 OR MOST RECENT VERSION EXCEPT WHERE NOTED.
2. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD EXCEPT WHERE NOTED.
3. ALL EXISTING SIGNS AND PAVEMENT MARKINGS ARE TO BE RETAINED EXCEPT WHERE SUPERSEDED BY PROPOSED SIGNS AND MARKINGS

<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>2</u> <u>2</u></p>  <p>R1-1</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>2</u> <u>2</u></p>  <p>R5-1</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>0</u> <u>2</u></p>  <p>R10-6</p> <p>24" X 36"</p> <p>R10-6</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>7</u> <u>5</u></p>  <p>M7-1</p> <p>12" X 9"</p> <p>M7-1</p> <p>1 "U" POST PER SIGN</p>
<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>1</u> <u>1</u></p>  <p>R1-1</p> <p>30" X 30"</p> <p>R1-1</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>2</u> <u>2</u></p>  <p>R5-1a</p> <p>30" X 12"</p> <p>R5-1a</p> <p>THIS SIGN IS NOT INCLUDED IN THE MUTCD.</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>8</u> <u>11</u></p>  <p>W11-1</p> <p>24" X 24"</p> <p>W11-1</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>3</u> <u>4</u></p>  <p>M7-2</p> <p>12" X 9"</p> <p>M7-1</p> <p>1 "U" POST PER SIGN</p>
<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>9</u> <u>0</u></p>  <p>R3-17</p> <p>30" X 24"</p> <p>R3-17</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>0</u> <u>1</u></p>  <p>R5-3</p> <p>24" X 24"</p> <p>R5-3</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>2</u> <u>2</u></p>  <p>W11-2</p> <p>24" X 24"</p> <p>W11-2</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>1</u> <u>1</u></p>  <p>M7-4</p> <p>12" X 9"</p> <p>M7-4</p> <p>1 "U" POST PER SIGN</p>
<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>3</u> <u>0</u></p>  <p>R3-17a</p> <p>30" X 12"</p> <p>R3-17a</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u> </u> <u> </u></p>  <p>R5-6</p> <p>24" X 24"</p> <p>R5-6</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>5</u> <u>10</u></p>  <p>W16-1</p> <p>18" X 24"</p> <p>W16-1</p> <p>1 "U" POST PER SIGN</p>	 <p>Symbols</p> <p>BICYCLE LANE CYCLIST PAVEMENT MARKING DETAIL</p>
<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>6</u> <u>0</u></p>  <p>R3-17b</p> <p>30" X 12"</p> <p>R3-17b</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>2</u> <u>1</u></p>  <p>R6-1</p> <p>36" X 12"</p> <p>R6-1</p> <p>1 "U" POST PER SIGN</p>	<p>ALT. A ALT. B</p> <p>QUANTITY REQ'D <u>12</u> <u>10</u></p>  <p>M1-8</p> <p>12" X 18"</p> <p>M1-8</p> <p>1 "U" POST PER SIGN</p>	



All rounded corners
25 mm (1 in) radius

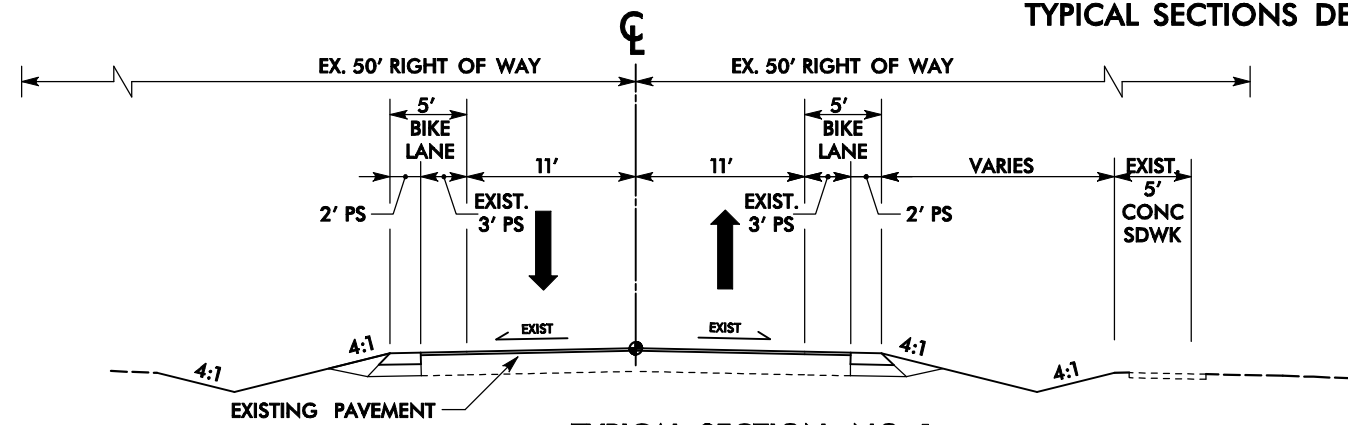
SHARED LANE PAVEMENT MARKING DETAIL
(APPROVED FOR PRELIMINARY USE BY FHWA)

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REVISIONS

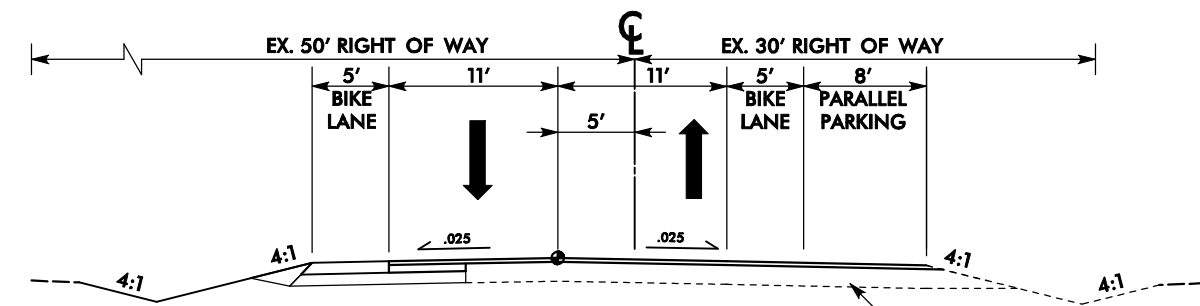
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DO NOT USE FOR CONSTRUCTION

TYPICAL SECTIONS DESIGN ALTERNATIVE A



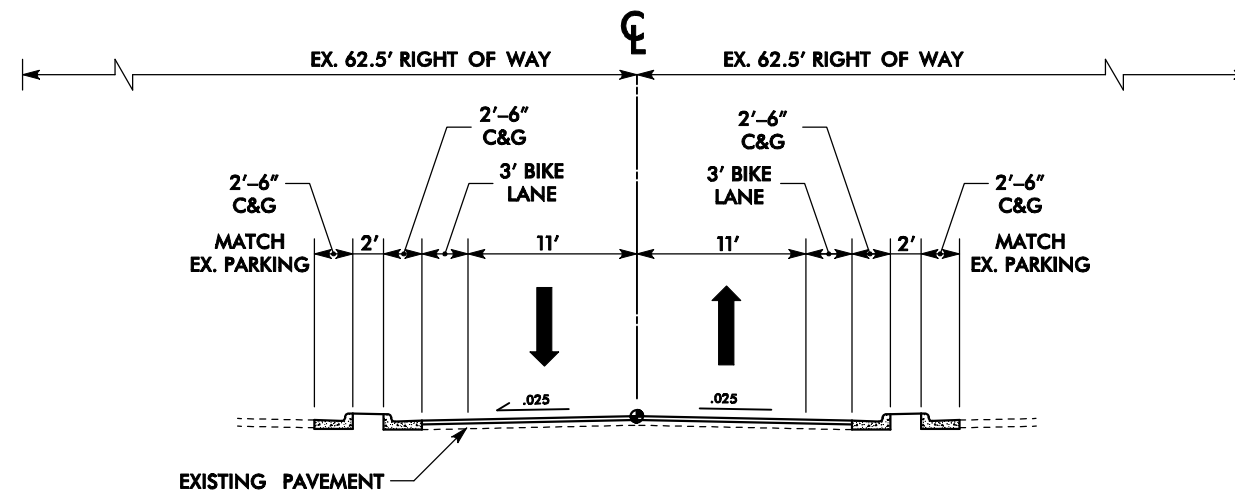
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS:
 -Y2- STA. 11+00 TO 36+80.76
 SALISBURY STREET FROM DRIFTWOOD COURT TO KENAN BANKS BRIDGE
 -Y2- STA. 37+73.34 TO 43+37.56
 SALISBURY STREET FROM THE KENAN BANKS BRIDGE TO THE BANKS CHANNEL BRIDGE



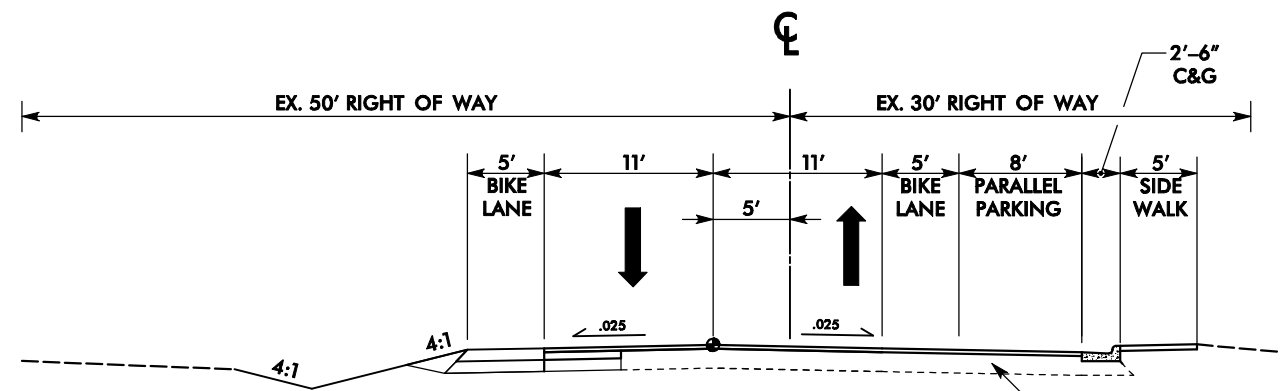
TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4 AS FOLLOWS:
 -Y4- STA. 37+56.85 55+55.00
 NORTH LUMINA AVENUE FROM MOORES INLET STREET TO S. RIDGE LANE



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:
 -Y2- 50+94.58 TO 55+33.15
 SALISBURY STREET FROM BANKS CHANNEL BRIDGE TO LAGOON DRIVE



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3 AS FOLLOWS:
 -Y4- STA. 34+50.00 TO 37+56.85
 NORTH LUMINA AVENUE FROM CIRCLE DRIVE TO MOORES INLET STREET

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED.



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REVISIONS

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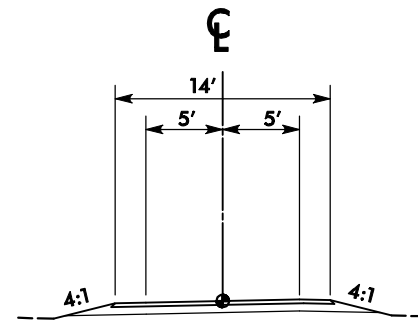
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R/W SHEET NO.

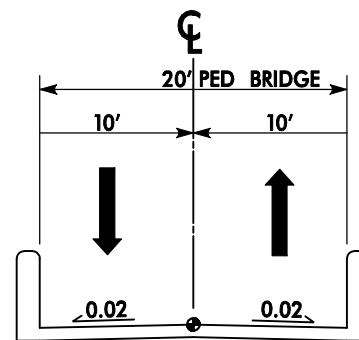
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TYPICAL SECTIONS DESIGN ALTERNATIVE B



TYPICAL SECTION NO 1

USE TYPICAL SECTION NO 1 AS FOLLOWS:
 -Y1- STA. 50+00.00 TO 50+25.00
 -Y1- STA. 51+50.00 TO 55+75.00
 -Y1- STA. 63+25.00 TO 63+40.64
 MULTIUSE PATH



TYPICAL SECTION NO 2

USE TYPICAL SECTION NO 2 AS FOLLOWS:
 -Y1- STA. 50+25.00 TO 51+50.00
 -Y1- STA. 55+75.00 TO 63+25.00
 PEDESTRIAN AND BICYCLE BRIDGE

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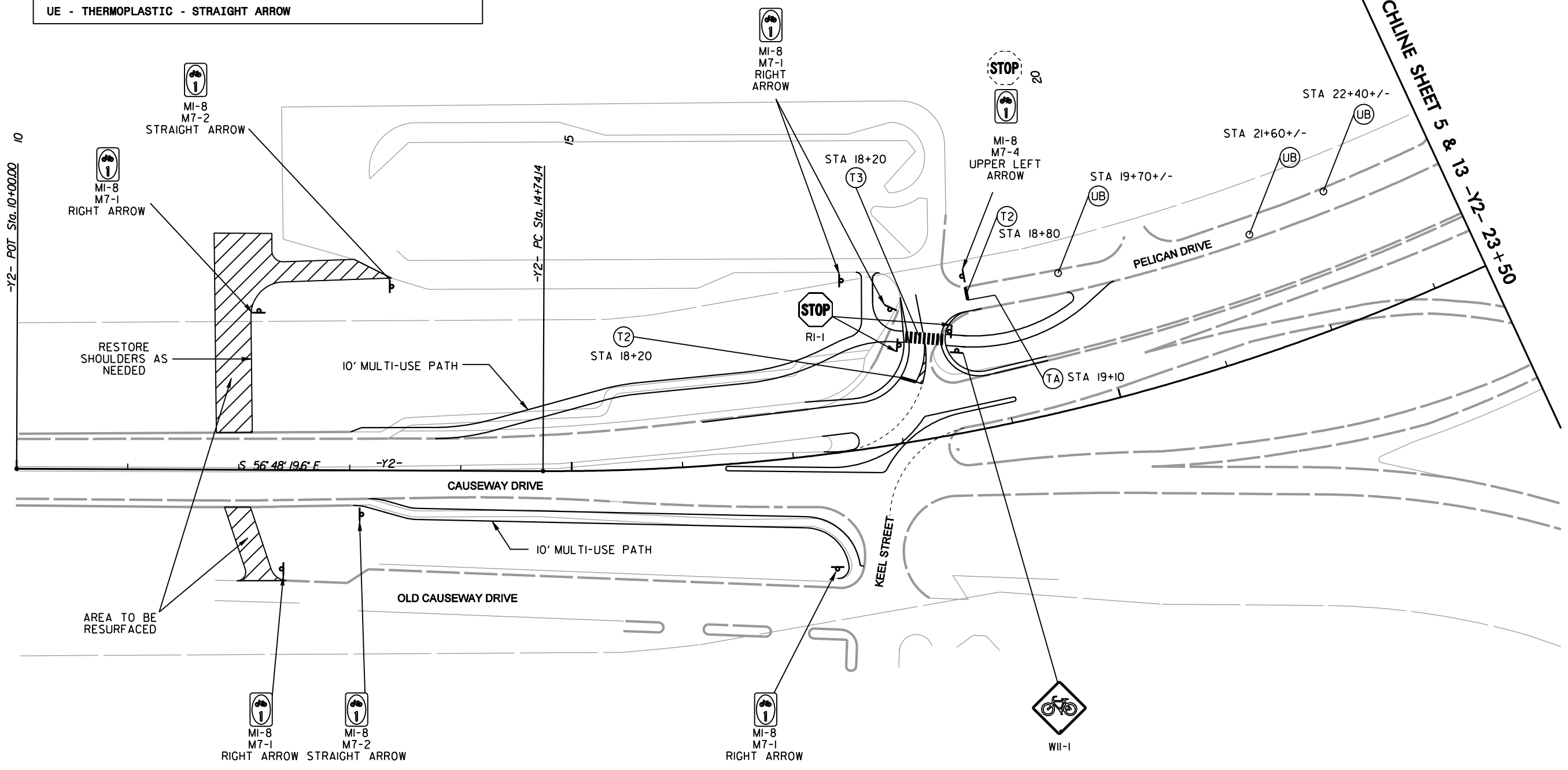
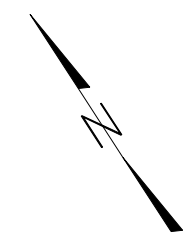
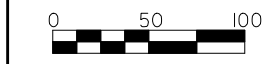
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 Raleigh, North Carolina 27605

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



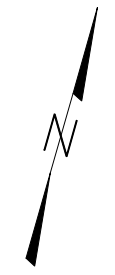
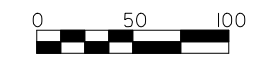
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 $\Delta = 49^\circ 11' 41.6''$ (LT)
 $D = 2^\circ 51' 53.2''$
 $L = 1,717.23'$
 $T = 915.56'$
 $R = 2,000.00'$

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REVISIONS

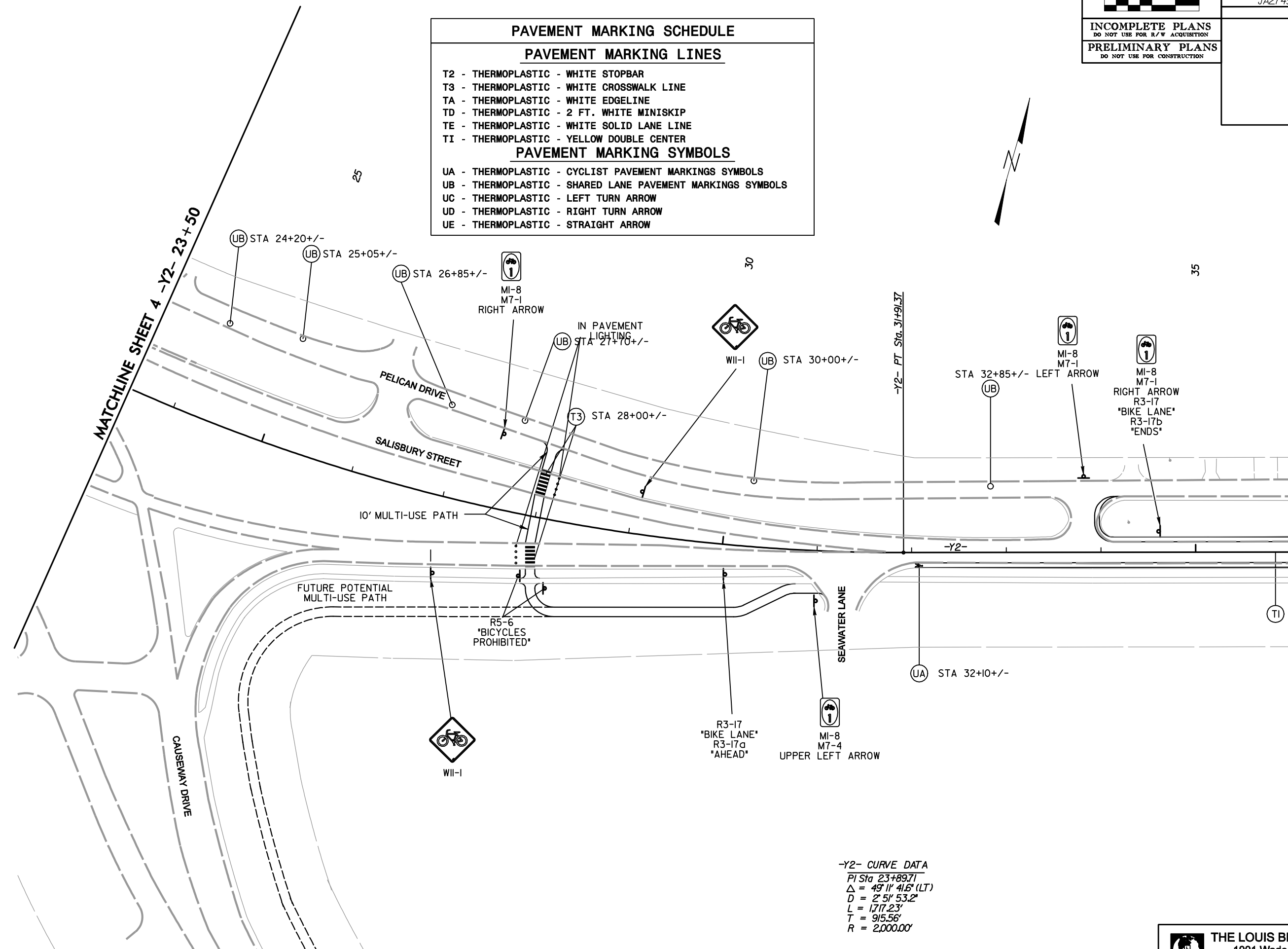
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ALTERNATIVE A			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
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UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
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UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



MATCHLINE SHEET 4 -Y2- 23+50

MATCHLINE -Y2- STA 36+00 SHEET 6

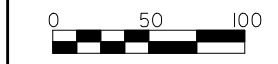


-Y2- CURVE DATA
 PI Sta 23+89.71
 $\Delta = 49^{\circ} 11' 41.6''$ (LT)
 $D = 2^{\circ} 51' 53.2''$
 $L = 1717.23'$
 $T = 915.56'$
 $R = 2,000.00'$

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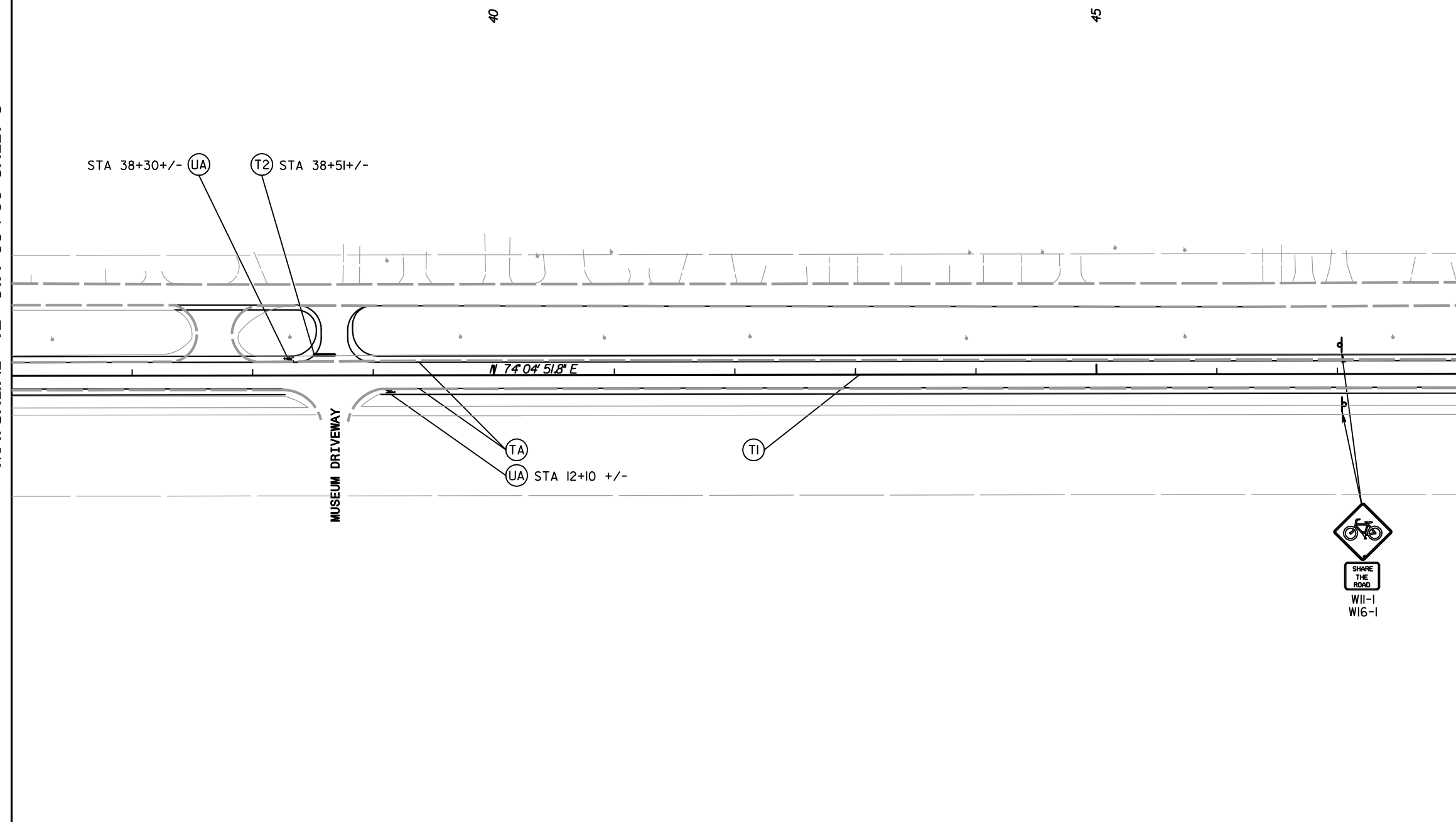
PROJECT REFERENCE NO.		SHEET NO.	
JA2745		6	
ALTERNATIVE A			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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T2	- THERMOPLASTIC - WHITE STOPBAR
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UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW

MATCHLINE -Y2- STA 36+00 SHEET 5

MATCHLINE -Y2- STA 48+00 SHEET 7

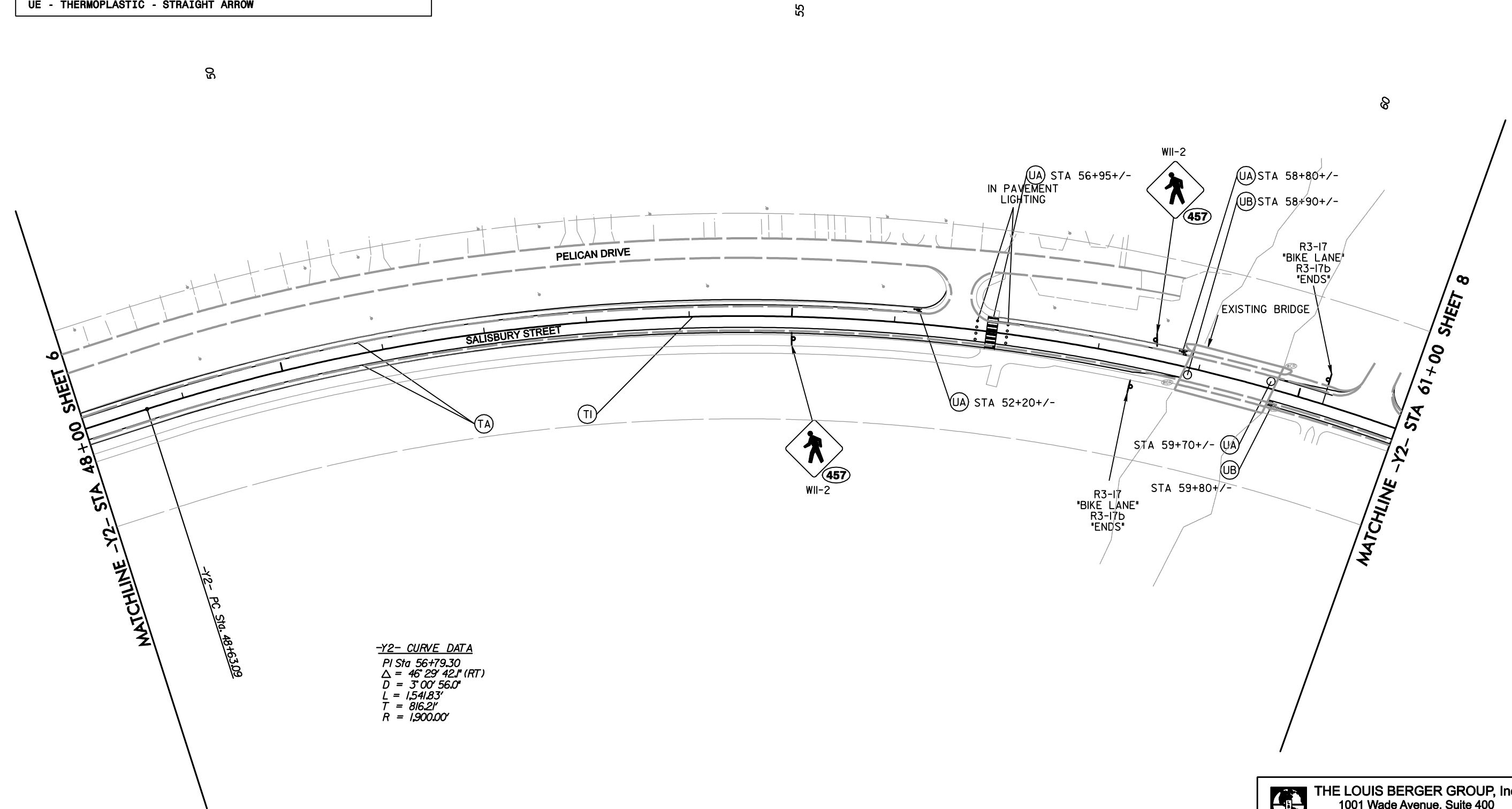
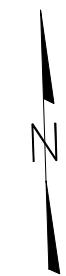


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REVISIONS

PROJECT REFERENCE NO. JA2745		SHEET NO. 7	
ALTERNATIVE A			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



-Y2- CURVE DATA
 PI Sta 56+79.30
 $\Delta = 46^{\circ} 29' 42.1''$ (RT)
 D = 3' 00" 56.0"
 L = 1,541.83'
 T = 816.21'
 R = 1,900.00'

-Y2- P.C. Sta 48+63.09

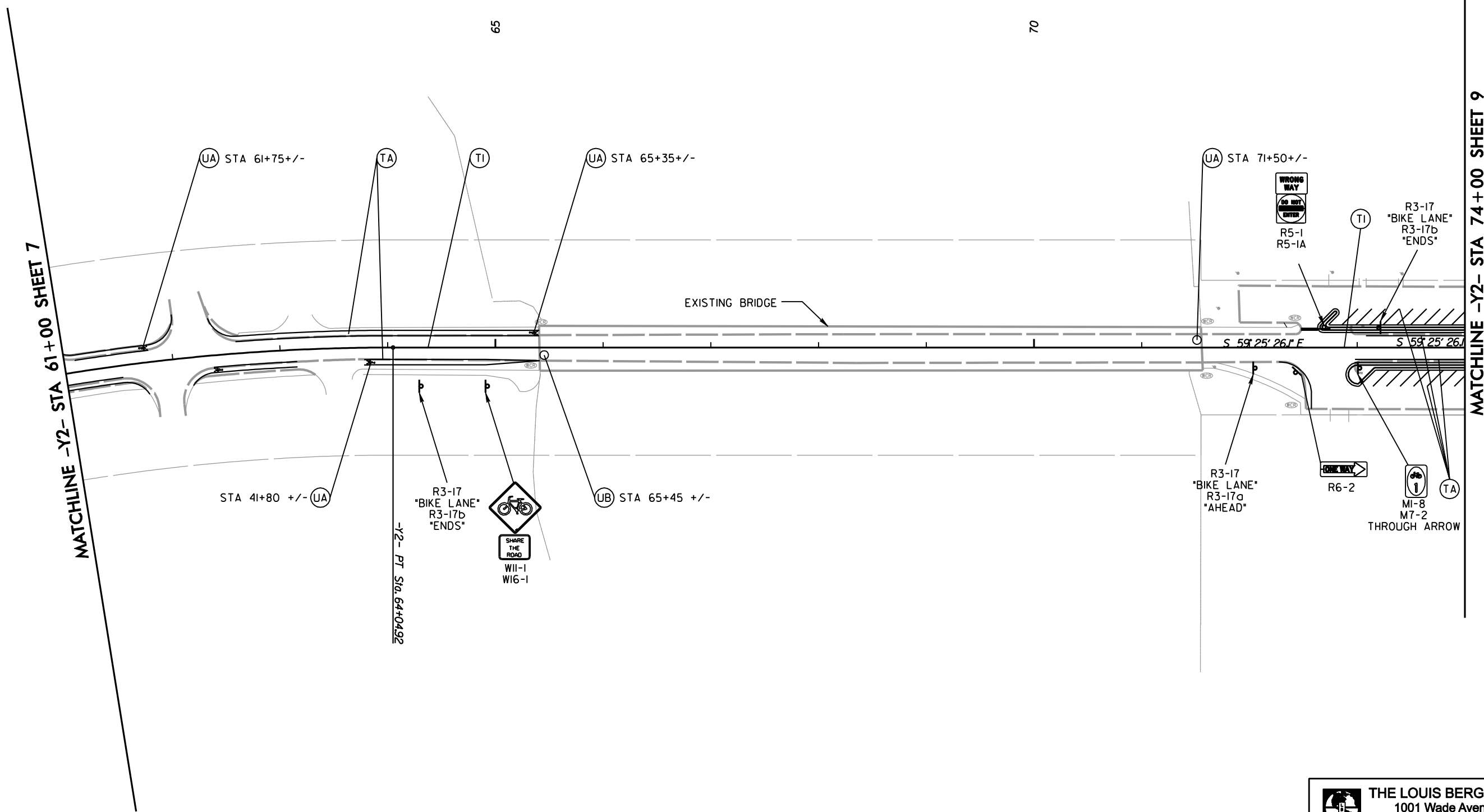
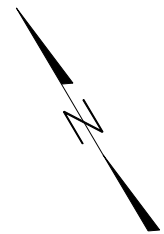
MATCHLINE -Y2- STA 48+00 SHEET 6

MATCHLINE -Y2- STA 61+00 SHEET 8

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	PROJECT REFERENCE NO.	SHEET NO.
	JA2745	8
ALTERNATIVE A		
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

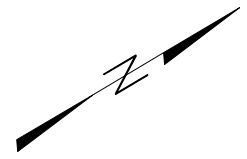
PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



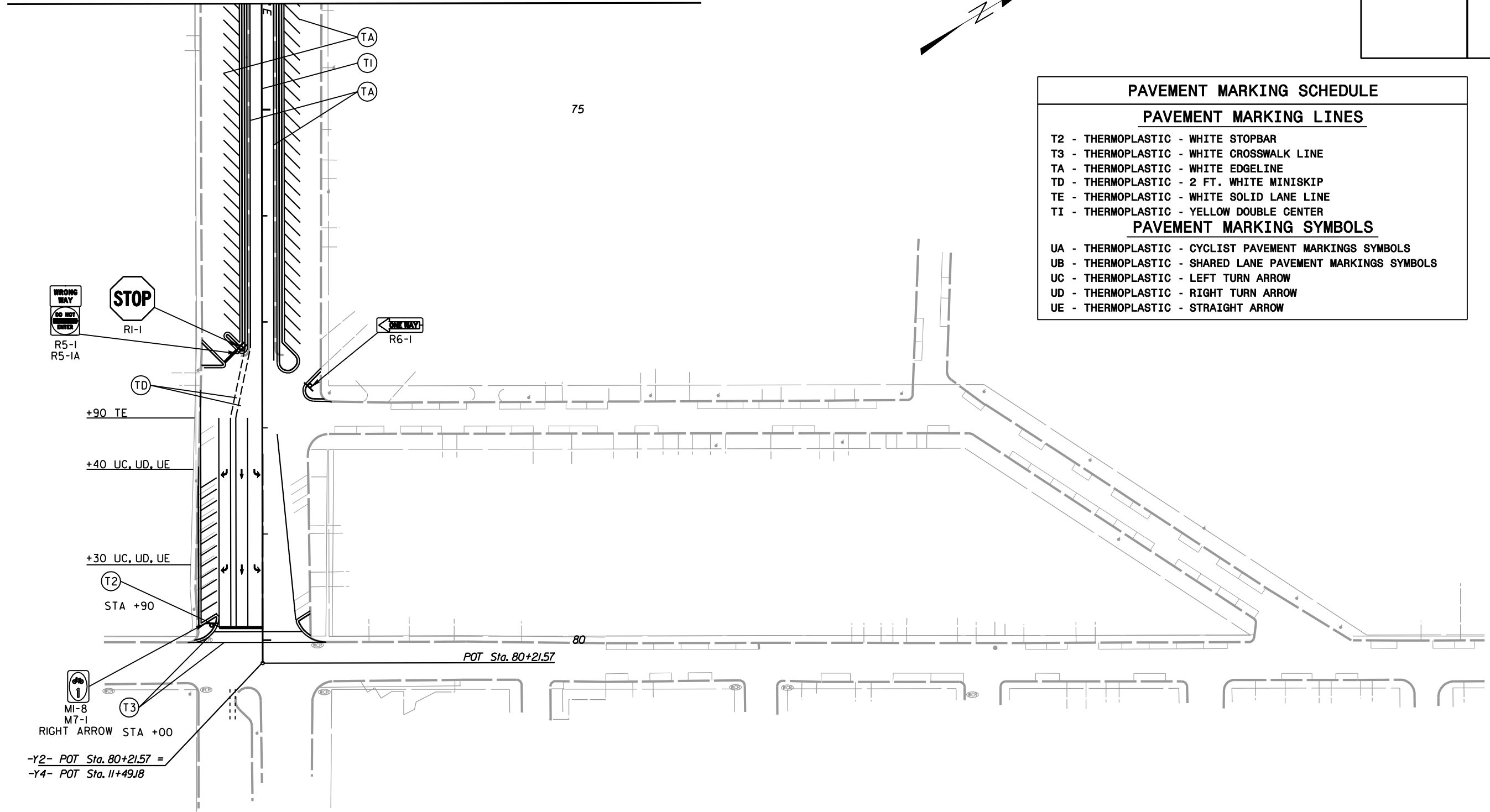
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REVISIONS

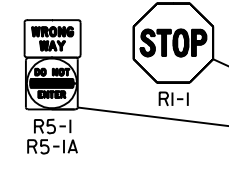
MATCHLINE -Y2- STA 74+00 SHEET 8



PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	THERMOPLASTIC - WHITE STOPBAR
T3	THERMOPLASTIC - WHITE CROSSWALK LINE
TA	THERMOPLASTIC - WHITE EDGELINE
TD	THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	THERMOPLASTIC - WHITE SOLID LANE LINE
TI	THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	THERMOPLASTIC - LEFT TURN ARROW
UD	THERMOPLASTIC - RIGHT TURN ARROW
UE	THERMOPLASTIC - STRAIGHT ARROW



75



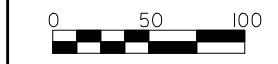
R5-I
R5-IA
RI-I
TD
+90 TE
+40 UC, UD, UE
+30 UC, UD, UE
T2
STA +90

MI-8
M7-1
RIGHT ARROW STA +00

-Y2- POT Sta. 80+21.57 =
-Y4- POT Sta. 11+49.18

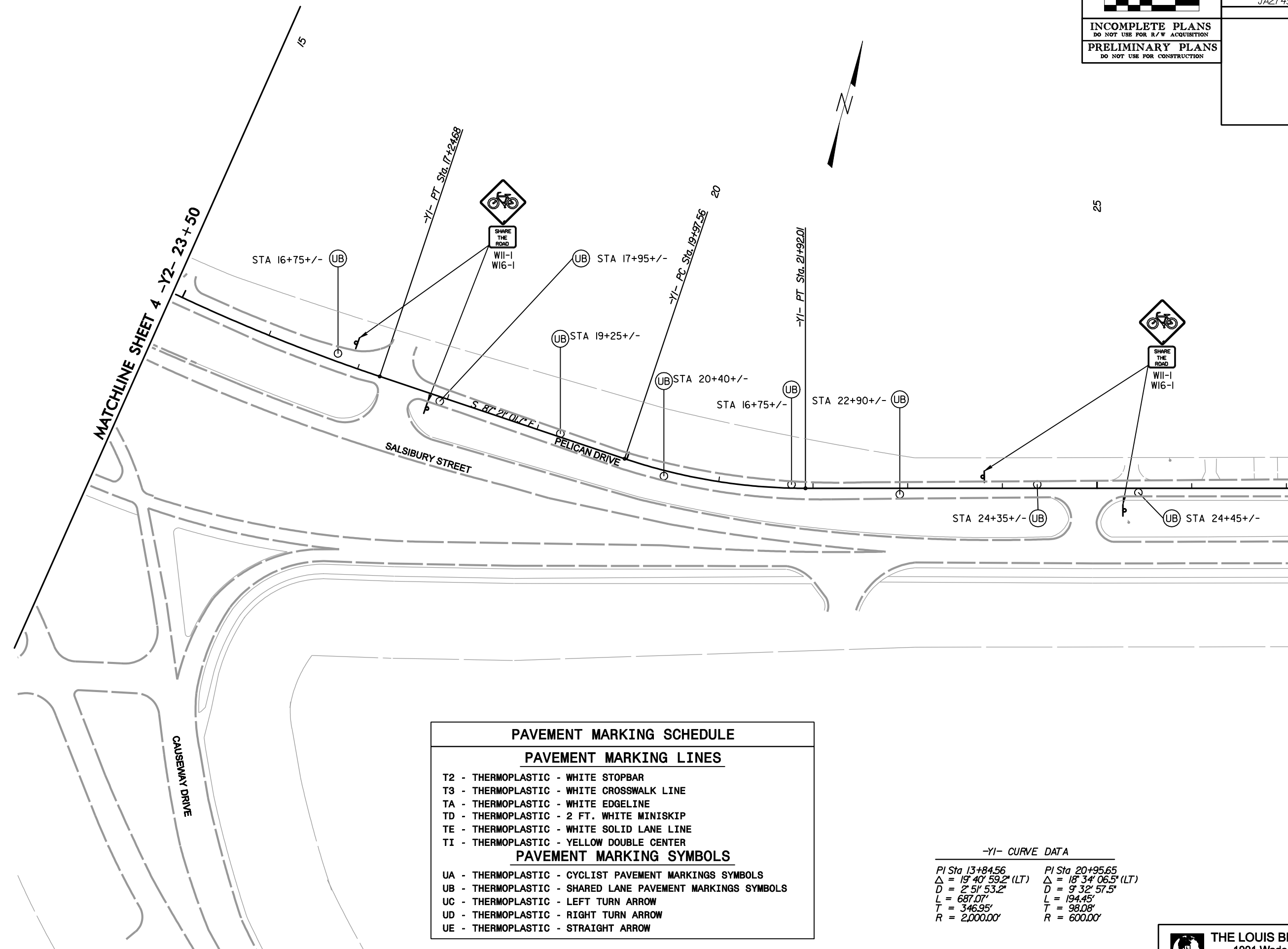
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REVISIONS



MATCHLINE SHEET 4 -Y2- 23+50

MATCHLINE -Y2- STA 36+00 SHEET 11



PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- T2 - THERMOPLASTIC - WHITE STOPBAR
- T3 - THERMOPLASTIC - WHITE CROSSWALK LINE
- TA - THERMOPLASTIC - WHITE EDGELINE
- TD - THERMOPLASTIC - 2 FT. WHITE MINISKIP
- TE - THERMOPLASTIC - WHITE SOLID LANE LINE
- TI - THERMOPLASTIC - YELLOW DOUBLE CENTER

PAVEMENT MARKING SYMBOLS

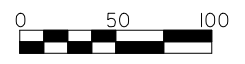
- UA - THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
- UB - THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
- UC - THERMOPLASTIC - LEFT TURN ARROW
- UD - THERMOPLASTIC - RIGHT TURN ARROW
- UE - THERMOPLASTIC - STRAIGHT ARROW

-YI- CURVE DATA

PI Sta 13+84.56	PI Sta 20+95.65
$\Delta = 19^\circ 40' 59.2''$ (LT)	$\Delta = 18^\circ 34' 06.5''$ (LT)
$D = 2^\circ 51' 53.2''$	$D = 9^\circ 32' 57.5''$
$L = 687.07'$	$L = 194.45'$
$T = 346.95'$	$T = 98.08'$
$R = 2,000.00'$	$R = 600.00'$

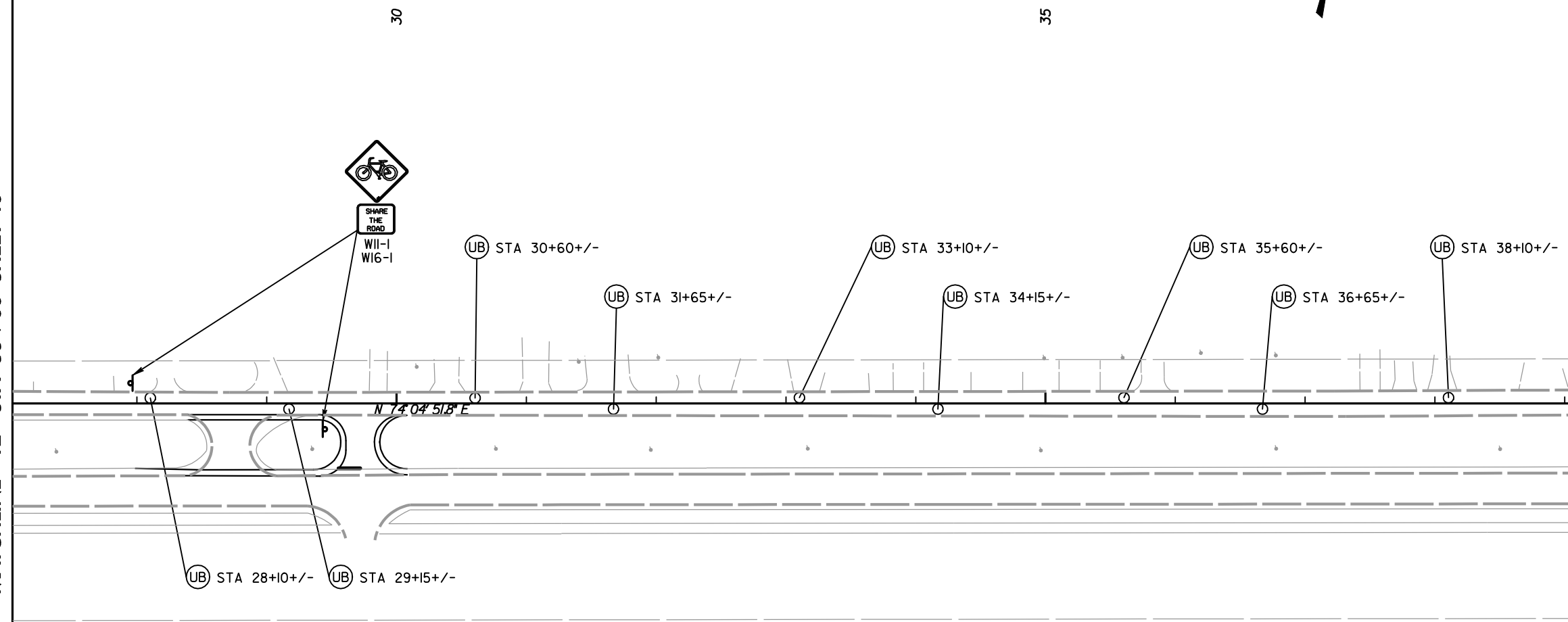
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REVISIONS



MATCHLINE -Y2- STA 36+00 SHEET 10

MATCHLINE -Y2- STA 48+00 SHEET 12



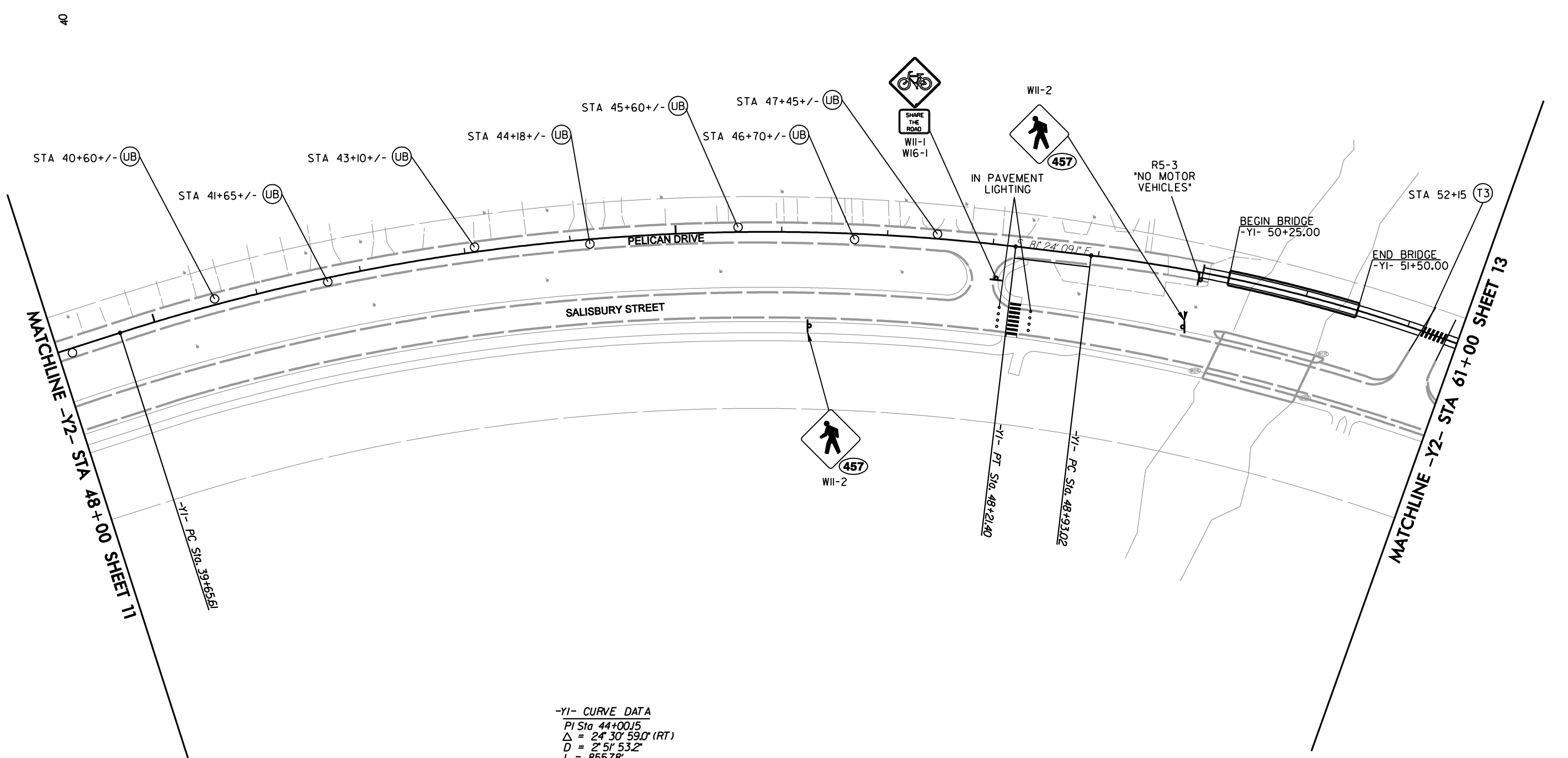
PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW

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REVISIONS

PROJECT REFERENCE NO. JA2745		SHEET NO. 12	
ALTERNATIVE B			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW

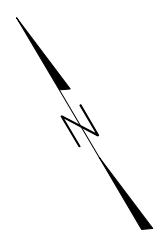
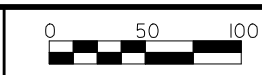


-YI- CURVE DATA
 PI Sta 44+00.15
 $\Delta = 24^{\circ} 30' 59.0''$ (RT)
 $D = 2^{\circ} 51' 53.2''$
 $L = 855.78'$
 $T = 434.54'$
 $R = 2,000.00'$

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REVISIONS

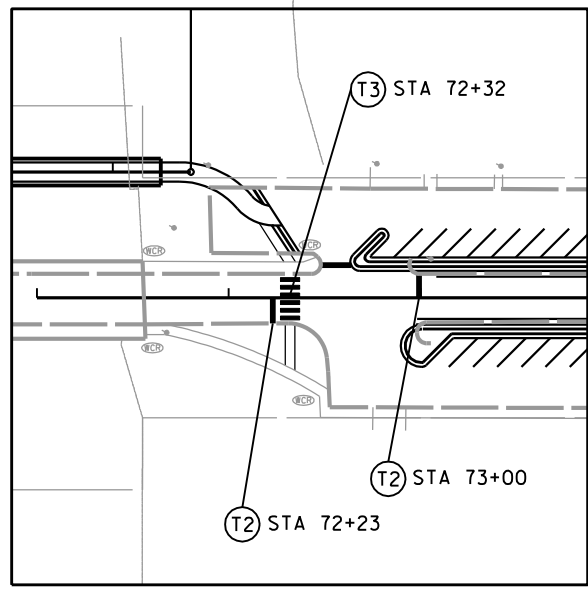
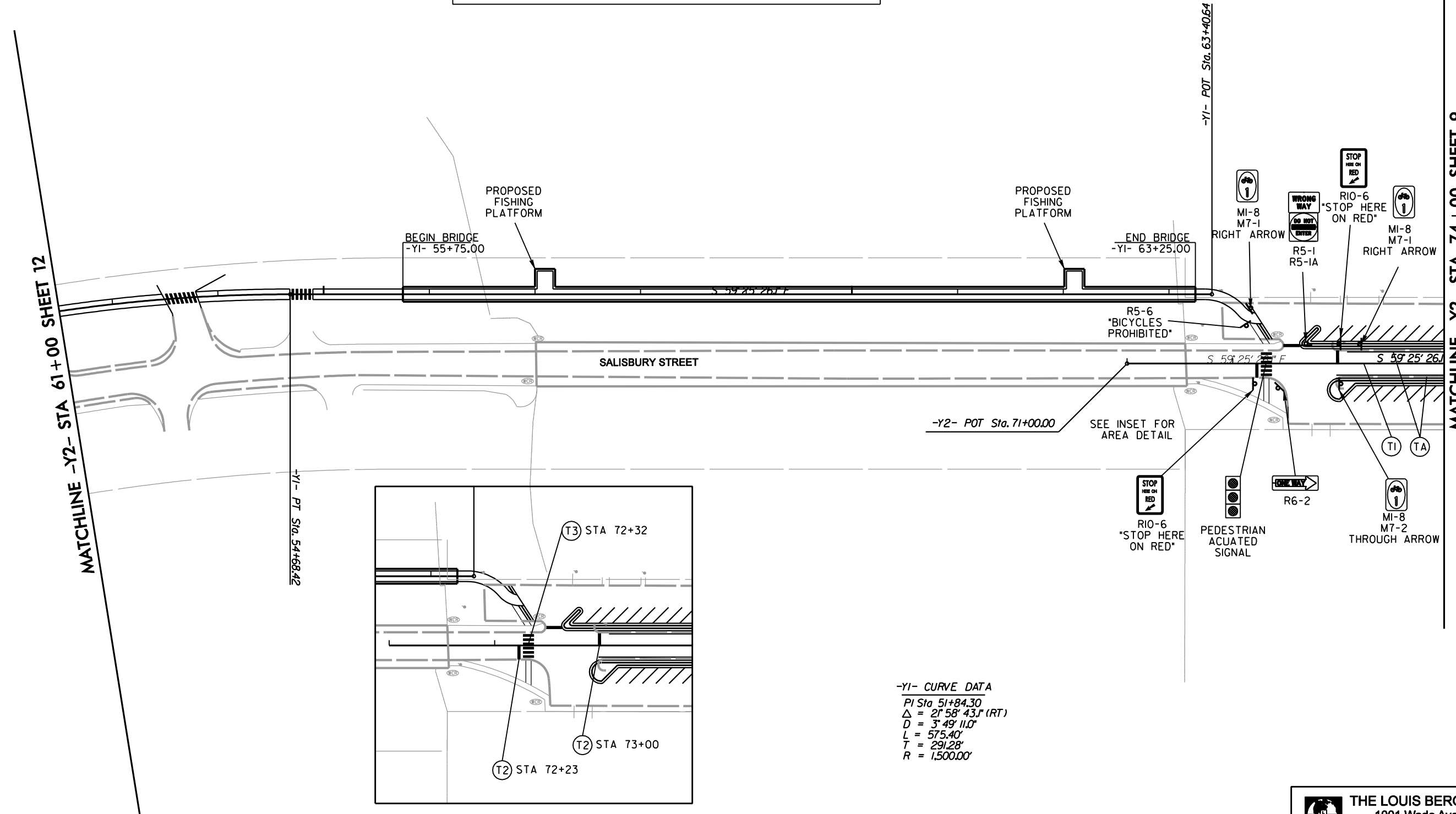
PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



55

MATCHLINE -Y2- STA 61+00 SHEET 12


MATCHLINE -Y2- STA 74+00 SHEET 9



-Y1- CURVE DATA
 PI Sta 51+84.30
 $\Delta = 21^{\circ} 58' 43.1''$ (RT)
 $D = 3^{\circ} 49' 11.0''$
 $L = 575.40'$
 $T = 291.28'$
 $R = 1,500.00'$

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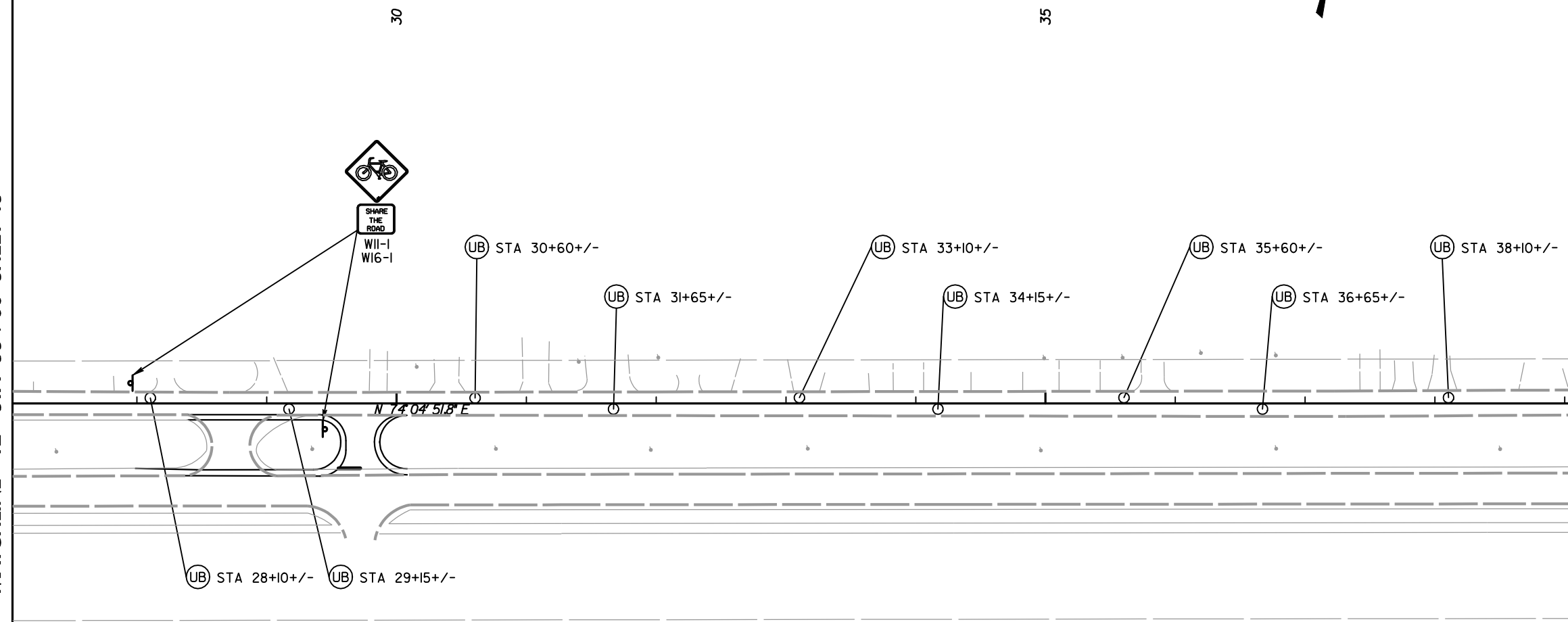
REVISIONS

PROJECT REFERENCE NO. JA2745		SHEET NO. 14	
ALTERNATIVE 2			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		ROADWAY DESIGN ENGINEER 	



MATCHLINE -Y2- STA 36+00 SHEET 13

MATCHLINE -Y2- STA 48+00 SHEET 15



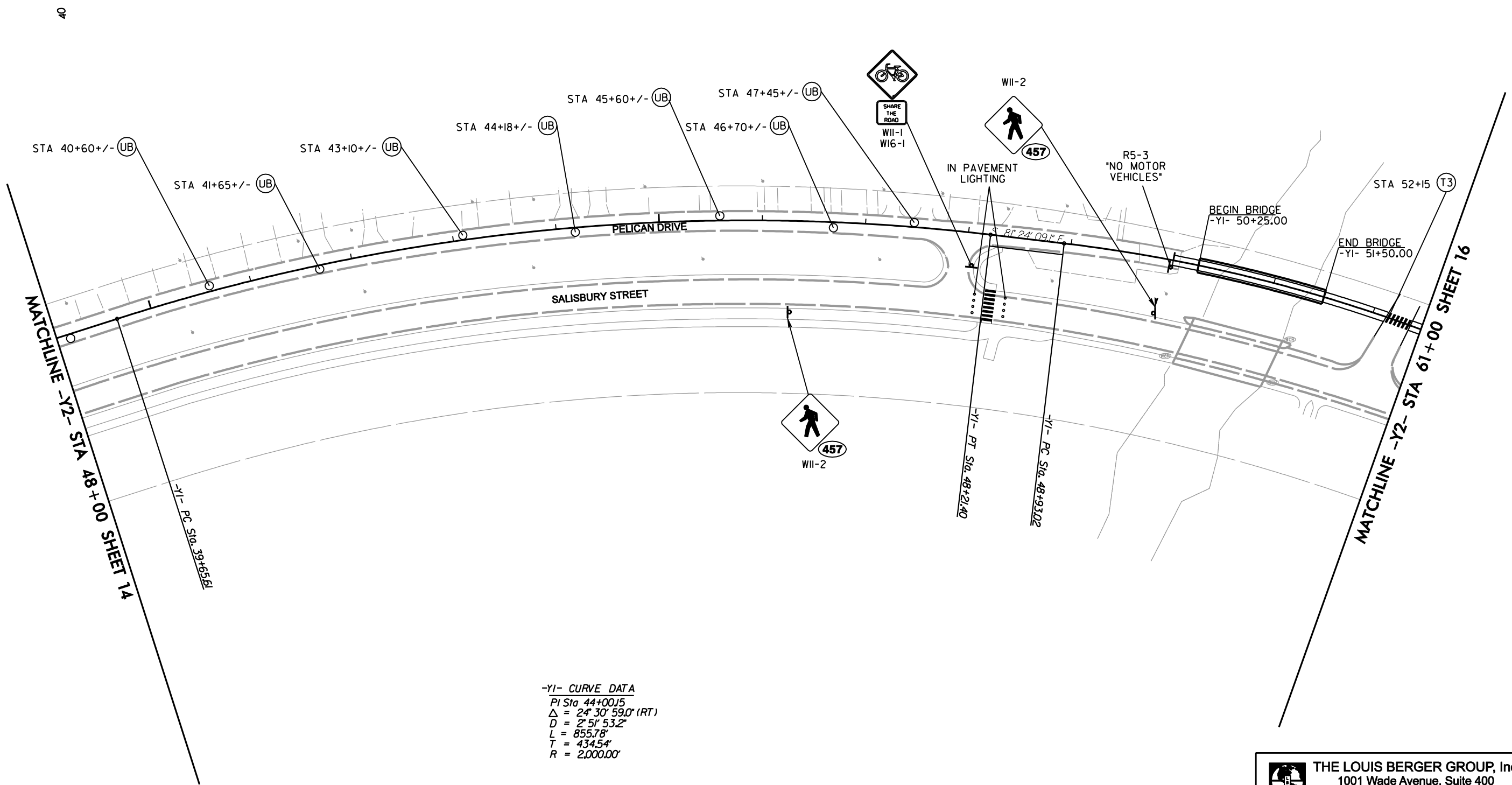
PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW

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REVISIONS

	PROJECT REFERENCE NO.	SHEET NO.
	JA2745	15
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	ALTERNATIVE 2	
	ROADWAY DESIGN ENGINEER 	

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



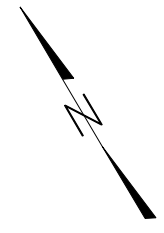
-YI- CURVE DATA
 PI Sta 44+00.15
 $\Delta = 24^{\circ} 30' 59.0"$ (RT)
 $D = 2^{\circ} 51' 53.2"$
 $L = 855.78'$
 $T = 434.54'$
 $R = 2,000.00'$

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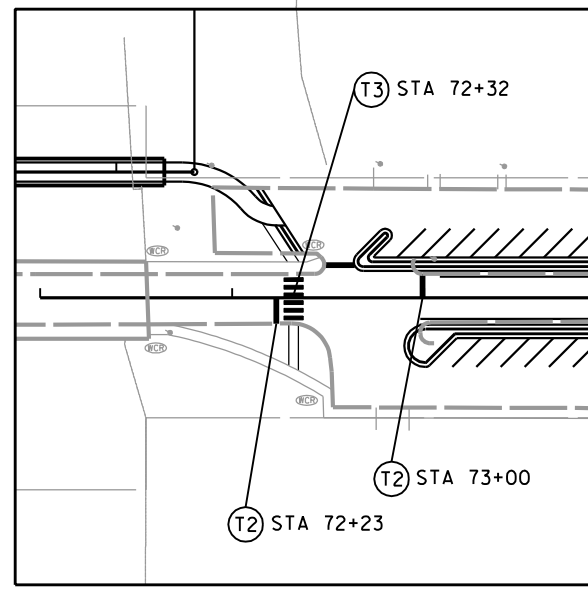
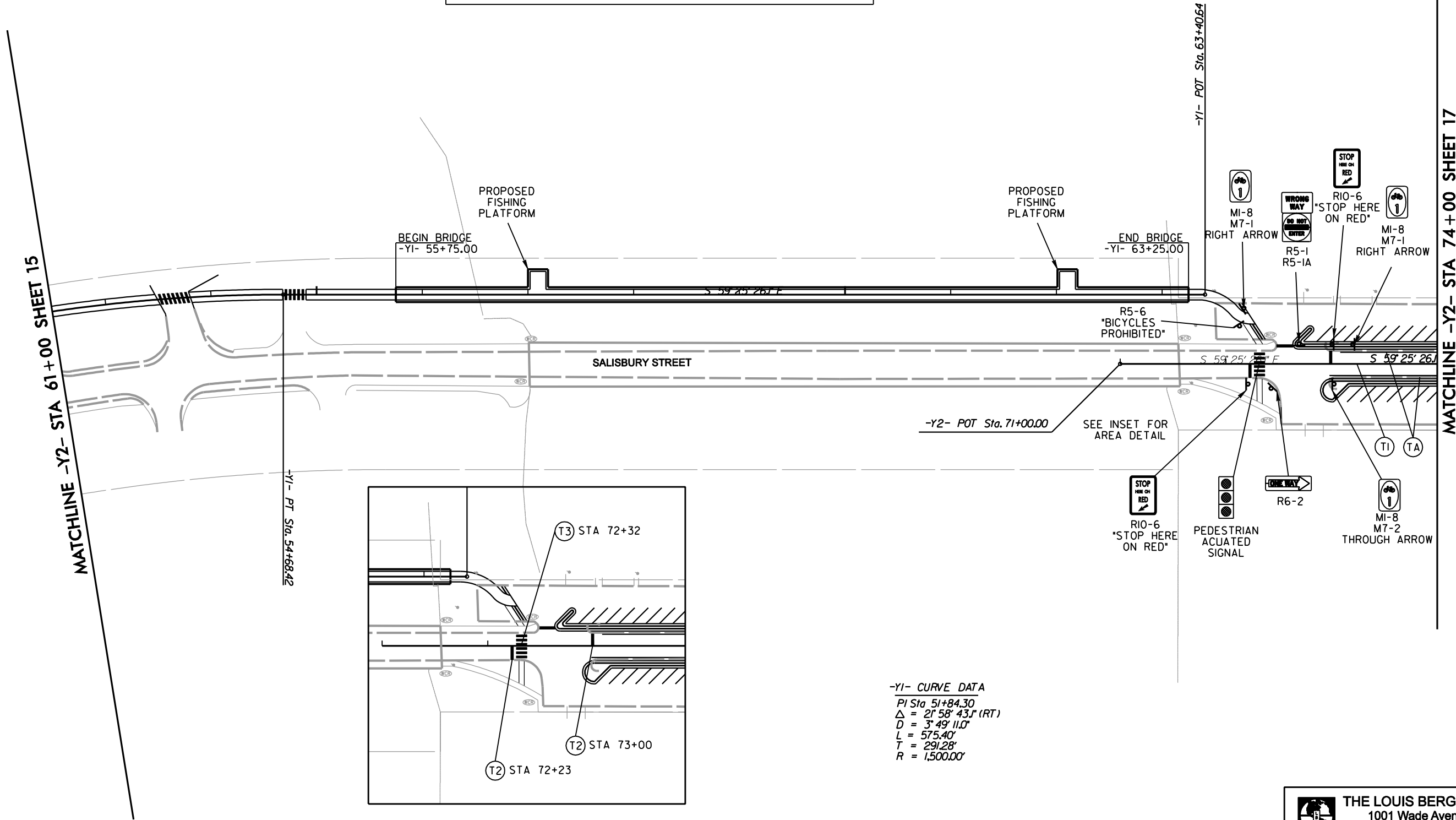
REVISIONS

 INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	PROJECT REFERENCE NO. JA2745	SHEET NO. 16
	ALTERNATIVE 2	
ROADWAY DESIGN ENGINEER REGISTERED ENGINEER 8/5/2009		

PAVEMENT MARKING SCHEDULE	
PAVEMENT MARKING LINES	
T2	- THERMOPLASTIC - WHITE STOPBAR
T3	- THERMOPLASTIC - WHITE CROSSWALK LINE
TA	- THERMOPLASTIC - WHITE EDGELINE
TD	- THERMOPLASTIC - 2 FT. WHITE MINISKIP
TE	- THERMOPLASTIC - WHITE SOLID LANE LINE
TI	- THERMOPLASTIC - YELLOW DOUBLE CENTER
PAVEMENT MARKING SYMBOLS	
UA	- THERMOPLASTIC - CYCLIST PAVEMENT MARKINGS SYMBOLS
UB	- THERMOPLASTIC - SHARED LANE PAVEMENT MARKINGS SYMBOLS
UC	- THERMOPLASTIC - LEFT TURN ARROW
UD	- THERMOPLASTIC - RIGHT TURN ARROW
UE	- THERMOPLASTIC - STRAIGHT ARROW



55



-YI- CURVE DATA
 PI Sta 51+84.30
 $\Delta = 21^\circ 58' 43.1''$ (RT)
 $D = 3' 49' 11.0''$
 $L = 575.40'$
 $T = 291.28'$
 $R = 1,500.00'$

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REVISIONS

MATCHLINE -Y2- STA 61+00 SHEET 15

-YI- PT Sta. 54+68.42

-YI- POT Sta. 63+40.64

-Y2- POT Sta. 71+00.00

MATCHLINE -Y2- STA 74+00 SHEET 17

PELICAN DRIVE / SALISBURY STREET

BICYCLE PLAN

DESIGN RECOMMENDATIONS

ADOPTED 9.10.2009



The Louis Berger Group, Inc.
Greene Transportation Solutions