

**UTILITIES**

ELECTRIC	TELEPHONE/COMMUNICATIONS	GAS & PIPELINE
American Electric Power Transmission Electric 700 Morrison Road Gahanna, OH 432320 (614) 552-1893 Contact: Barbara Dunlap	Level 3 Communications 1025 Eldorado Blvd. Broomfield, CO 80021 (720) 888-7280 Contact: Michael Karacson	Qwest/CenturyLink 13057 S. Monitor Ave. Palos Heights, IL 60463 (708) 837-7927 Contact: Kevin Huff
MCI/Verizon 720 W. Henry Street Indianapolis, IN 46225 (317) 685-8050 Contact: Chris Fowler	Sprint 400 W Grand Ave. Elmhurst, IL 90216 (847) 737-1869 Contact: Gerry Crain	NIPSCO 1039 Pennsylvania South Bend, IN 46601 (574) 284-2214 Contact: Phil Griffin
Infinity Fiber/Union Station/GAP 5520 W 76th Street Indianapolis, IN 46268 (317) 777-7583 Contact: Keith Hamm	Rogers Telecom 4804 N 40th Street Sheboygan, WI 53083 (920) 395-7125 Contact: Vicki Moran	CABLE/TV Comcast 1920 McKinley Avenue Mishawaka, IN 46545 (847) 789-1039 ext. 71039 Contact: Jay Castello
Windstream Communications 30486 E 400 N Strawn, IL 61775 (309) 838-0788 Contact: Jeff Taylor	Zayo Bandwidth 1710 Directors Row Ft Wayne, IN 46808 (260) 570-5677 Contact: Jason Gilpin	SANITARY SEWER/WATER City of South Bend-Sanitary 227 W. Jefferson Blvd. South Bend, IN 46601 (574) 235-9251 Contact: Tony Mulnar
Indiana Michigan Power-Distribution Electric 2929 Lathrop Street South Bend, IN 46628 (574) 236-1658 Contact: Antonio Macias	US Signal 7020 Southbelt Dr. SE Caledonia, MI 49315 (614) 483-6350 Contact: Rick Andricks	City of South Bend-Water 209 N. Main Street South Bend, IN 46601 (574) 235-5633 Contact: Ed Herman

1

**GENERAL NOTES**

**	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	Contractor shall verify existing flowline elevations to set the appropriate sump depth.

\*\* REPRESENTS GENERAL NOTES REQUIRED

**INDEX**

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3-4	Plan Index Location Maps
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224	Patching Table
225-227	Erosion Control Tables
228-230	Summary of Quantities and Approach Tables
231-237	Structure Data Tables
238-239	Pipe Material Table
240-246	Cross Sections - Main Street & Bronson Street Reconstruction

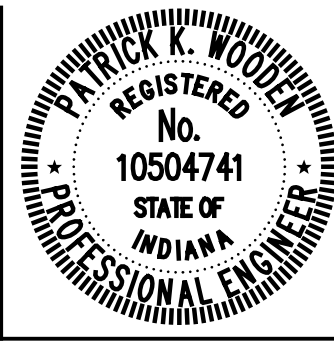
**REVISIONS**


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SHEET NO.	DATE	REVISED
2,7,8,20,51,56,63,68,71,72,75-81,91, 96-100,102,107,138-155,156-161, 163-175,178-180,182,183,185-190,195-199, 217,219,223,229,230,232-234,240,243	1/15/2016	Revised Elevations & Grades
91-1,91-2,91-3,91-4,91-5,107-1, 107-2,107-3,107-4,107-5,107-6, 107-7	1/15/2016	Added Sheets for Construction Elevation Details
2,5-14,50,51,55,57,58,60,63-65,71,73, 75-77,85,90,133,134,137,138,140,142,156, 170,185-199,201-204,209-218,220,222	1/29/2016	Revised Legends, Pavement Markings, Added Tree Grates
221-1	1/29/2016	Added Sheet; Sign Table

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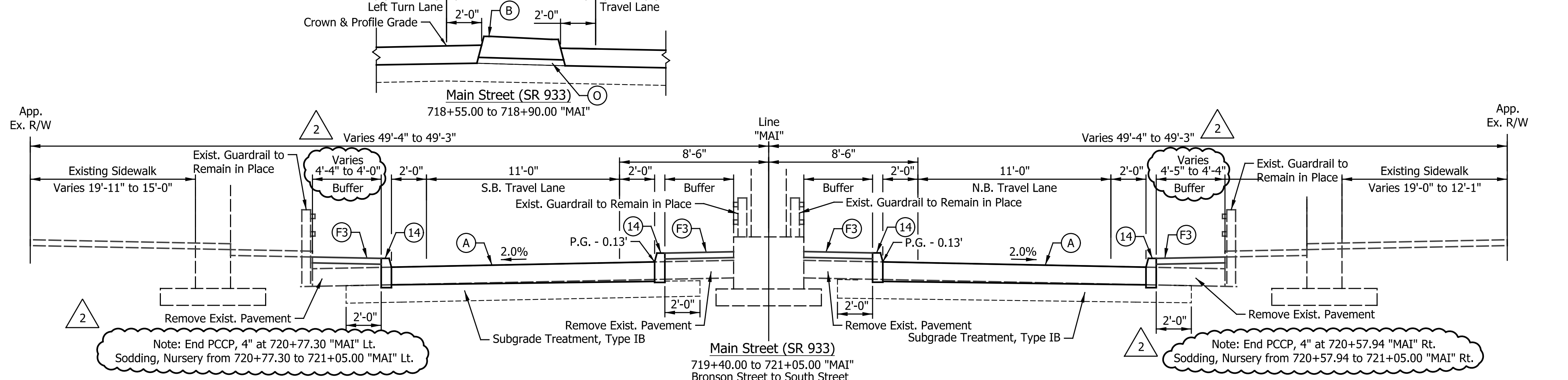
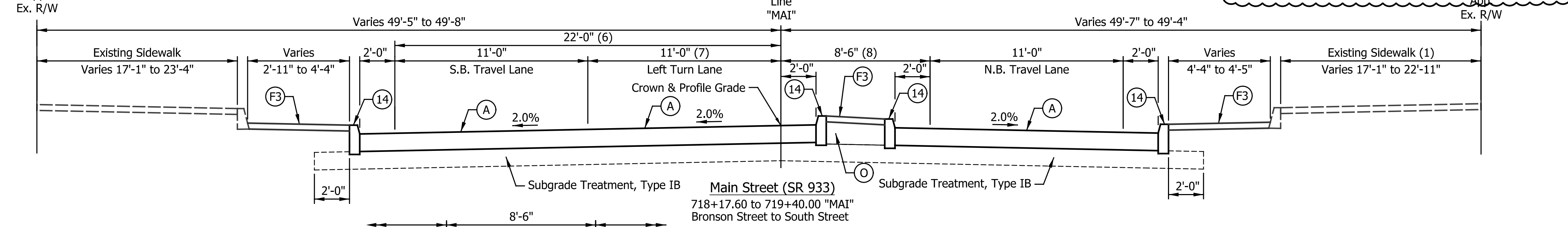
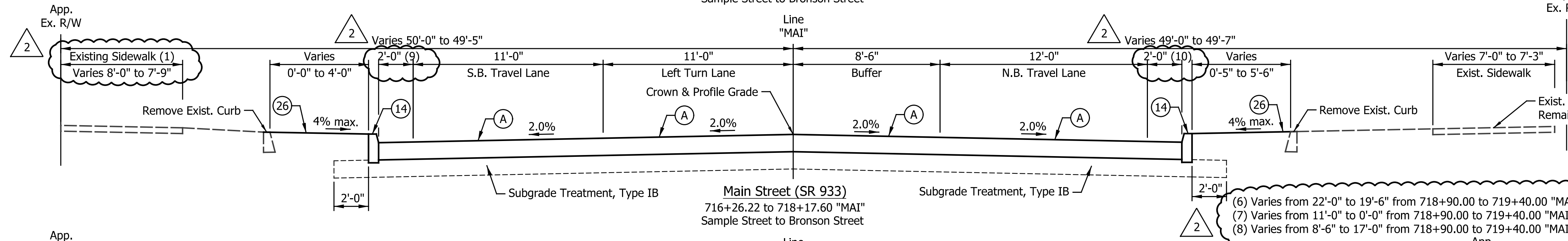
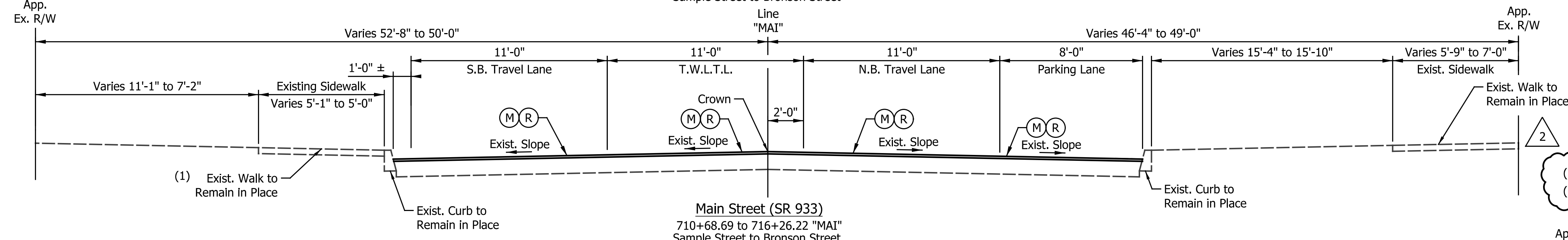
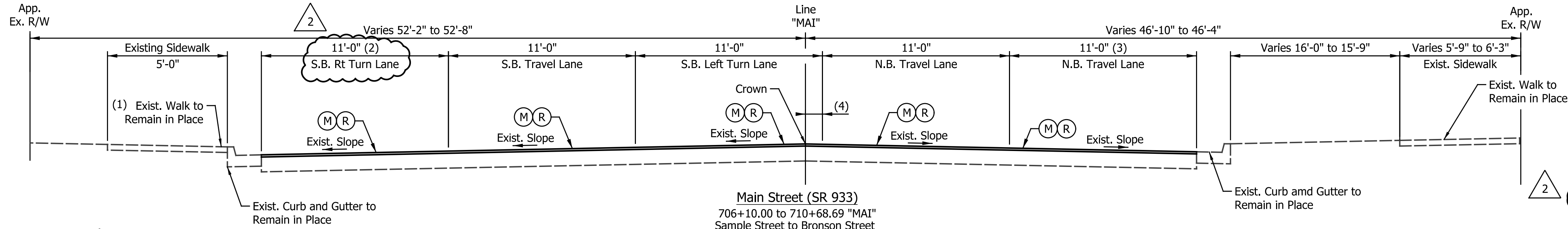


RECOMMENDED FOR APPROVAL		1/7/2016
DESIGNED:	MRR	DRAWN:
CHECKED:	PKW	CHECKED:
		PKW

CITY OF SOUTH BEND

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	2 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



(1) See Plan Details for Curb Ramp Construction Information  
 (2) Varies from 11'-0" to 0'-0" from 709+79.26 to 710+68.69 "MAI"  
 (3) Varies from 11'-0" to 8'-0" from 709+79.26 to 710+68.69 "MAI"  
 (4) Equals 0'-0" from 706+42.24 to 709+70.00 "MAI"  
 Varies 0'-0" to 2'-0" from 709+70.00 to 710+70.00 "MAI"

(9) Varies from 1'-4" to 2'-0" from 716+26.22 to 716+36.31 "MAI"  
 (10) Varies from 1'-3" to 2'-0" from 716+26.22 to 716+38.07 "MAI"

- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (B) Center Curb, D, Concrete
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
 275 #/Syd HMA Intermediate, Type D on  
 330 #/Syd HMA Base, Type D on  
 440 #/Syd HMA Base, Type D
  - (K1) Full Depth HMA Pavement consisting of:  
 165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on  
 275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
 330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
 3 in. Compacted Aggregate, No. 53 Base
  - (L) Landscaping Area
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (O) 3" Compacted Aggregate, No. 53 Base
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.

**Main Street (SR 933)**  
 719+40.00 to 721+05.00 "MAI"  
 Bronson Street to South Street

RECOMMENDED FOR APPROVAL: *Patrick W. Woodson*  
 DESIGN ENGINEER 1/7/2016 DATE

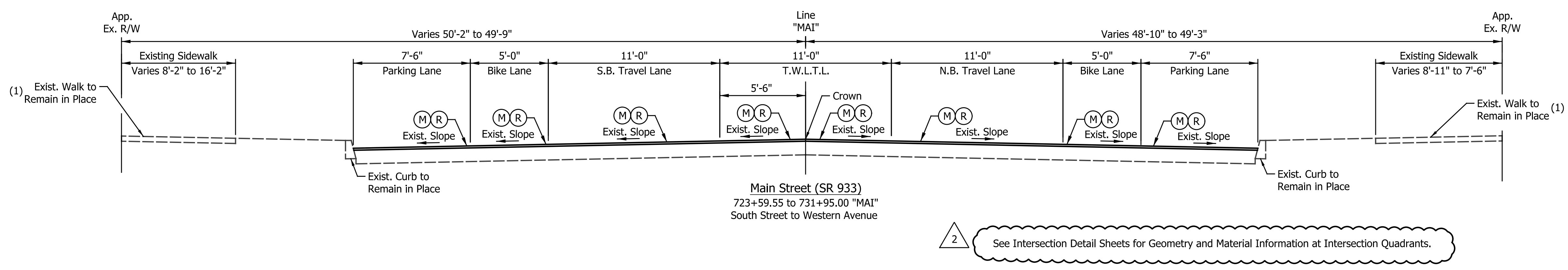
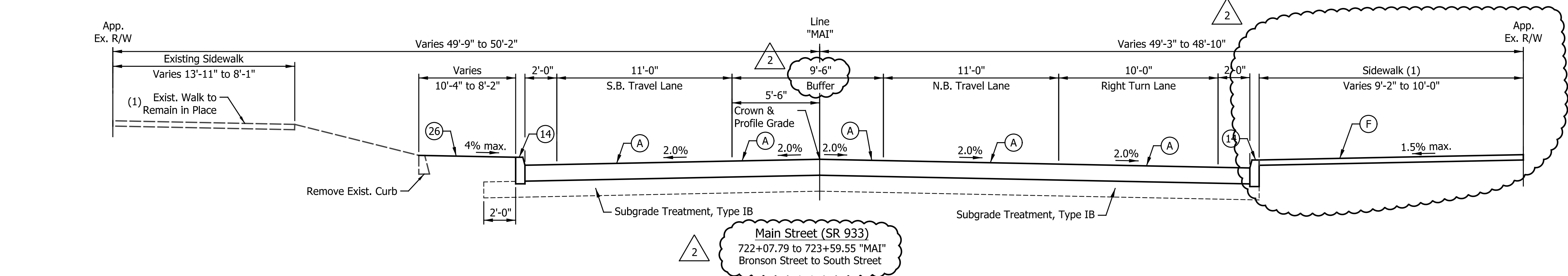
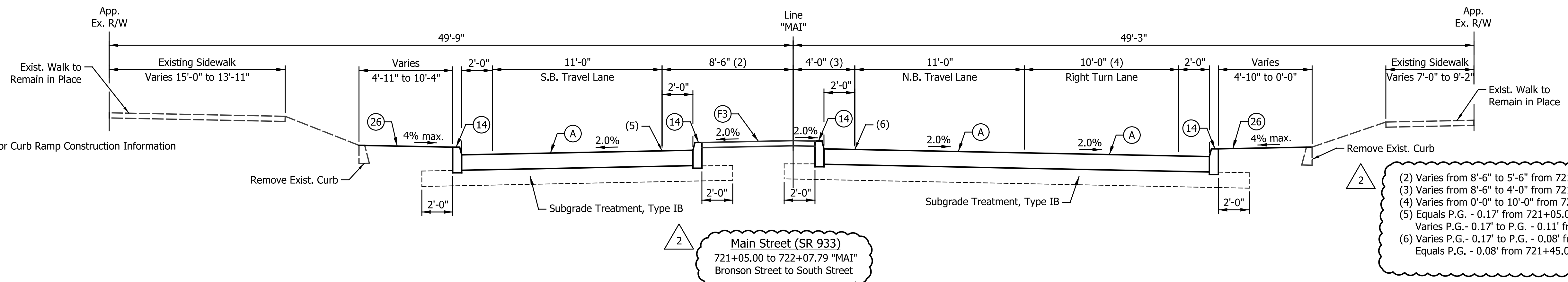
DESIGNED: MRR DRAWN: MRR  
 CHECKED: PKW CHECKED: PKW

**CITY OF SOUTH BEND**

**TYPICAL CROSS SECTIONS**  
**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	5 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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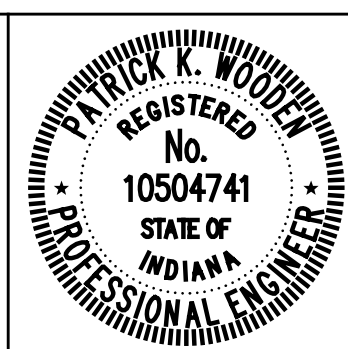
- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
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  - (B) Center Curb, D, Concrete
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
275 #/Syd HMA Intermediate, Type D on 330 #/Syd HMA Base, Type D on 440 #/Syd HMA Base, Type D
  - (K1) Full Depth HMA Pavement consisting of:  
165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on 275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on 330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on 3 in. Compacted Aggregate, No. 53 Base
  - (L) Landscaping Area
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (O) 3" Compacted Aggregate, No. 53 Base
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

(1) See Plan Details for Curb Ramp Construction Information

(2) Varies from 8'-6" to 5'-6" from 721+55.06 to 722+05.09 "MAI"  
 (3) Varies from 8'-6" to 4'-0" from 721+05.00 to 721+45.00 "MAI"  
 (4) Varies from 0'-0" to 10'-0" from 721+05.00 to 721+45.00 "MAI"  
 (5) Equals P.G. - 0.17' from 721+05.00 to 721+55.00 "MAI"  
 Varies P.G. - 0.17' to P.G. - 0.11' from 721+55.00 to 721+09.78 "MAI"  
 (6) Varies P.G. - 0.17' to P.G. - 0.08' from 721+05.00 to 721+45.00 "MAI"  
 Equals P.G. - 0.08' from 721+45.00 to 722+09.78 "MAI"

(2) See Intersection Detail Sheets for Geometry and Material Information at Intersection Quadrants.

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.



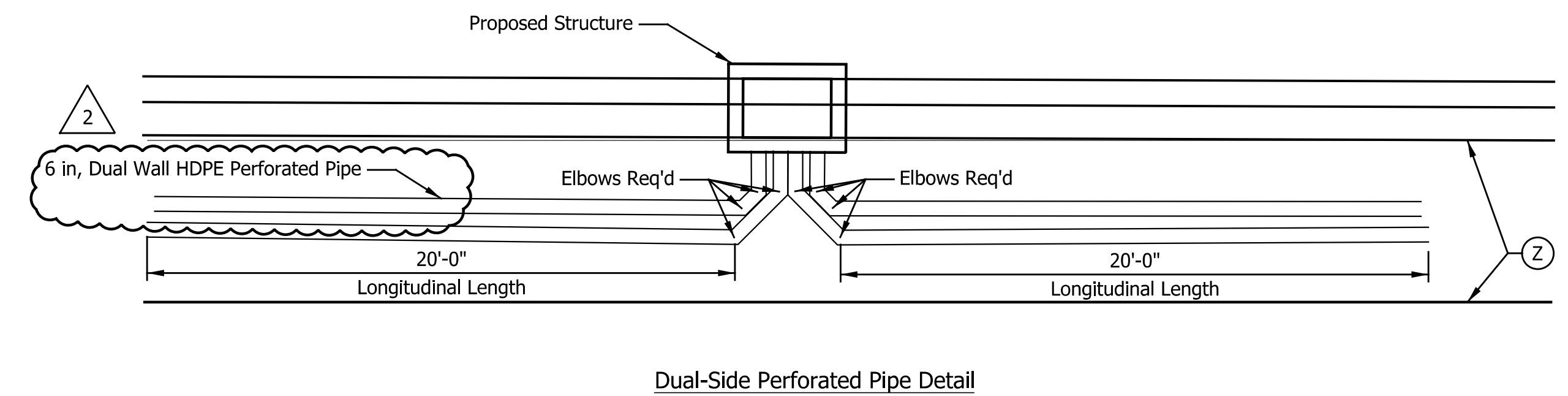
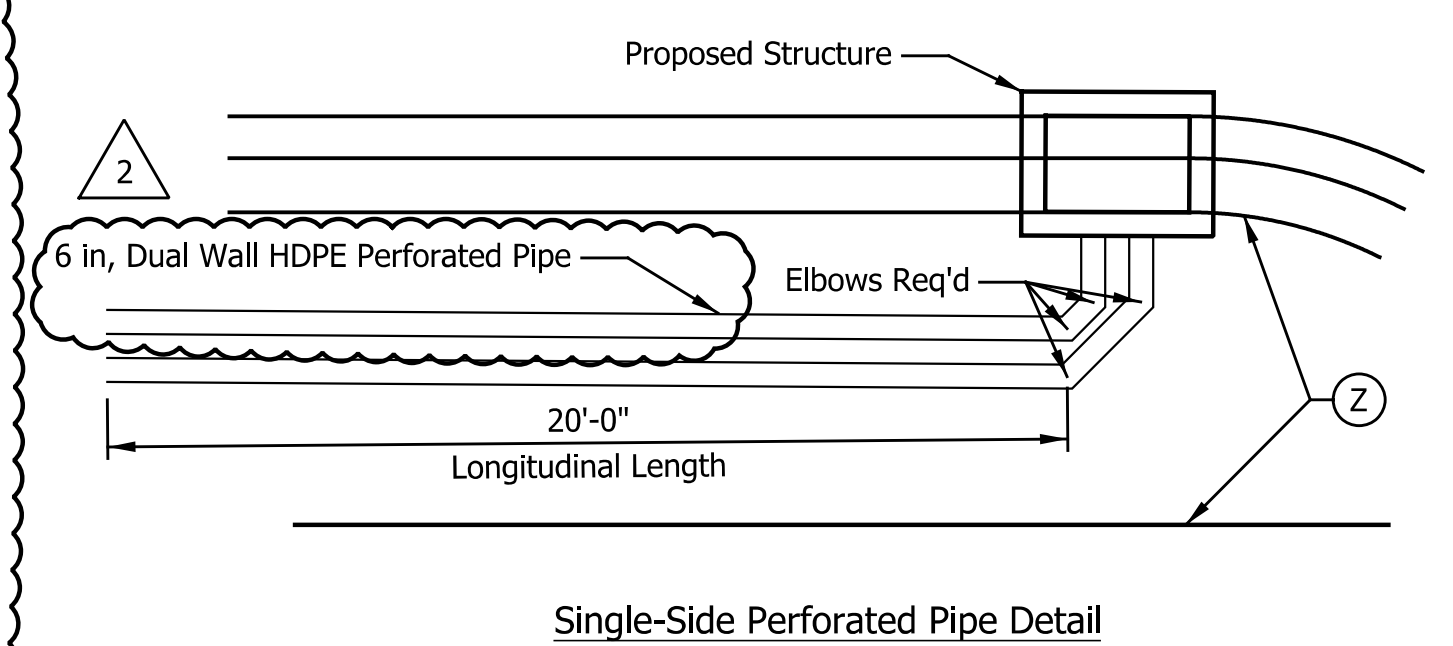
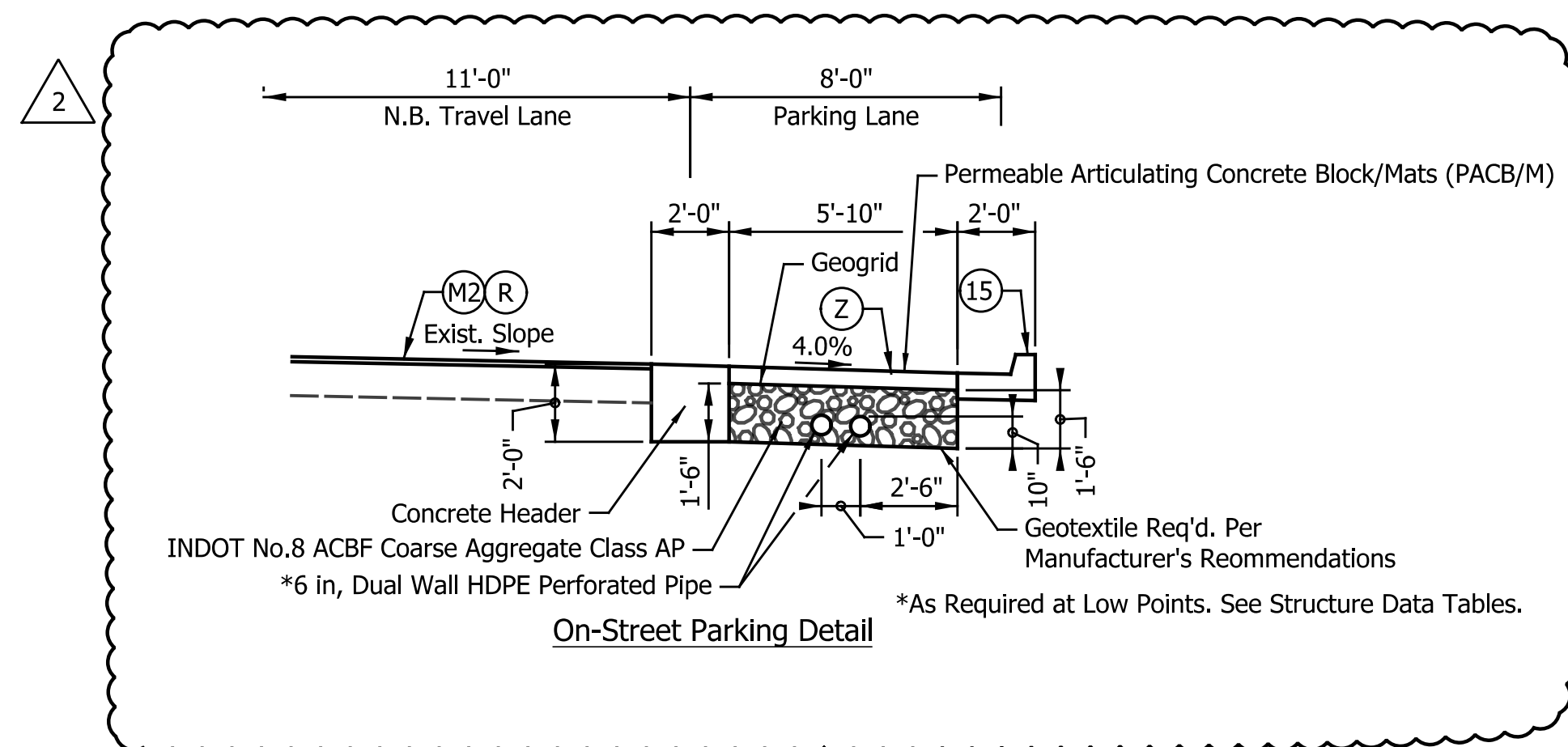
RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	MRR	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND

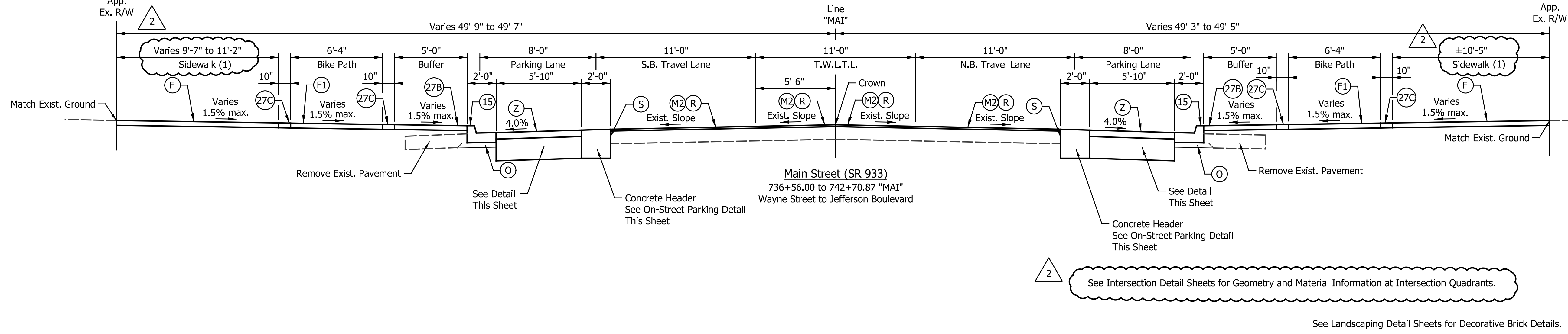
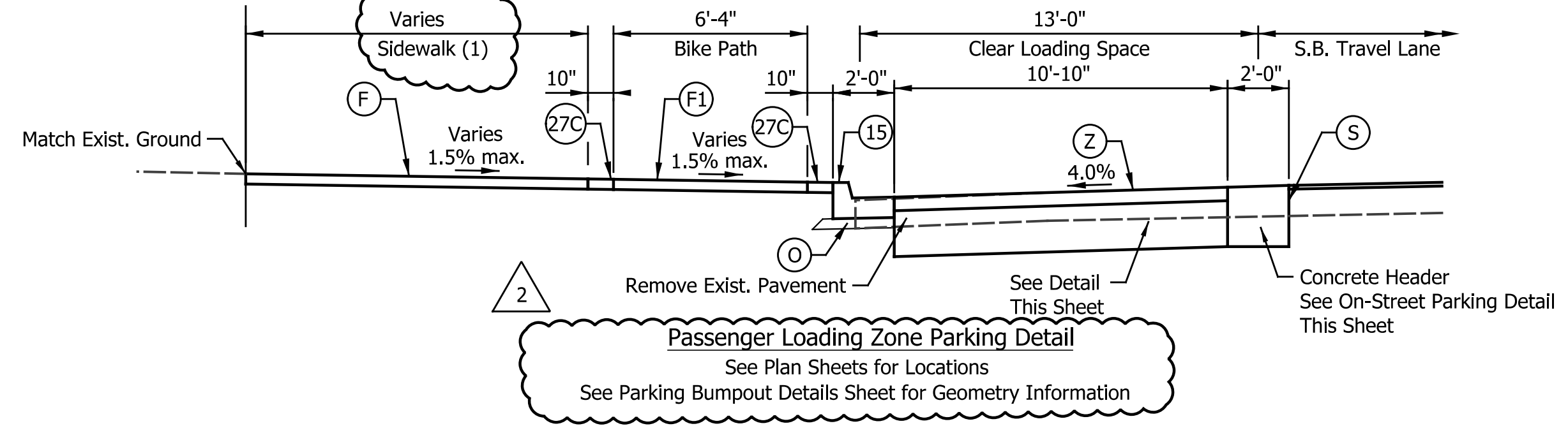
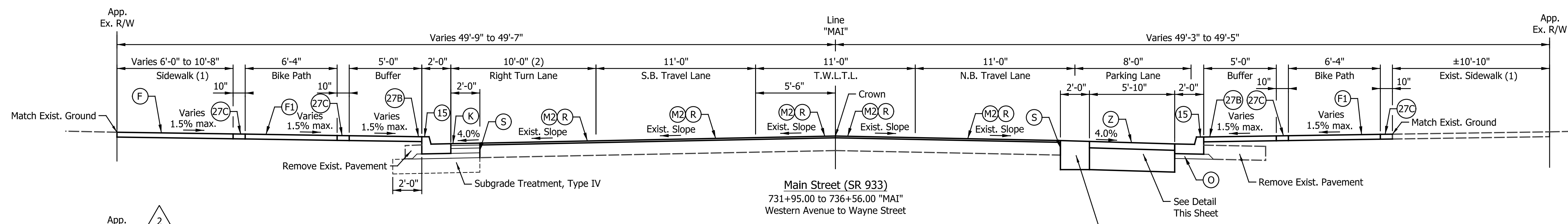
TYPICAL CROSS SECTIONS  
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	6 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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(1) See Plan Details for Curb Ramp Construction Information  
 (2) Varies 10'-0" to 5'-10" from 736+00.00 to 736+30.00 "MAI"  
 Equals 5'-10" from 736+30.00 to 736+50.00 "MAI"



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
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  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
 275 #/Syd HMA Intermediate, Type D on  
 330 #/Syd HMA Base, Type D on  
 440 #/Syd HMA Base, Type D
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 275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
 330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
 3 in. Compacted Aggregate, No. 53 Base
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  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
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  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

DATE	REVISION
1/15/2016	REV 1: Adjusted Permeable Pavement Detail Per Manufacturer's Recommendations
1/29/2016	REV 2: Various Adjustments for Consistency.

Professional Engineer Seal for Patrick R. Woodson, No. 10504741, State of Indiana.

RECOMMENDED FOR APPROVAL: *Patrick Woodson*, DESIGN ENGINEER, DATE: 1/7/2016

DESIGNED: MRR | DRAWN: MRR

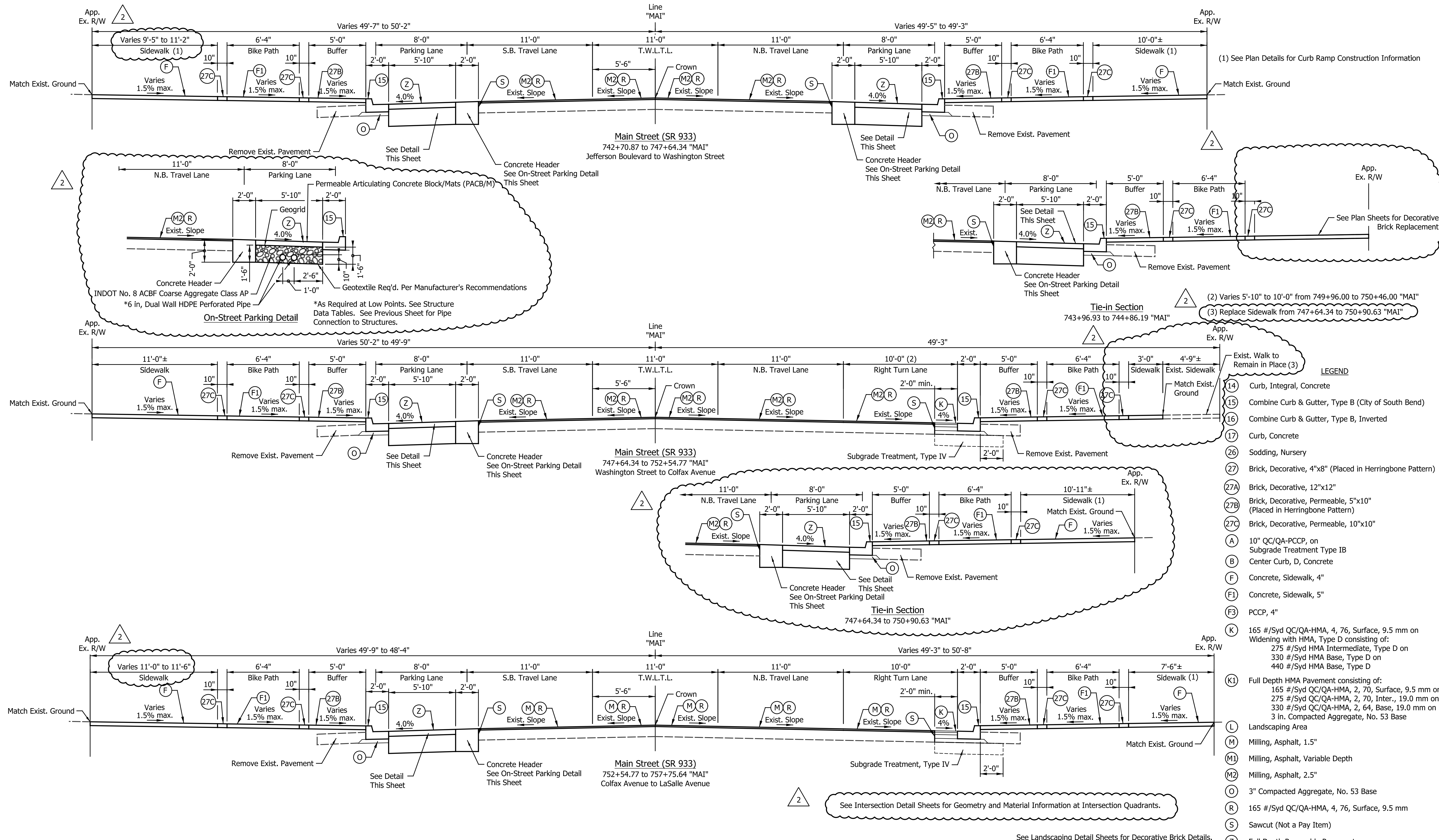
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CITY OF SOUTH BEND

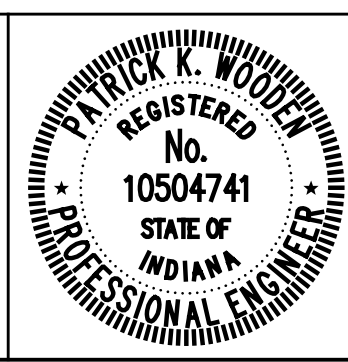
TYPICAL CROSS SECTIONS  
 MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	7 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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DATE	REVISION
1/15/2016	REV 1: Adjusted Permeable Pavement Detail Per Manufacturer's Recommendations
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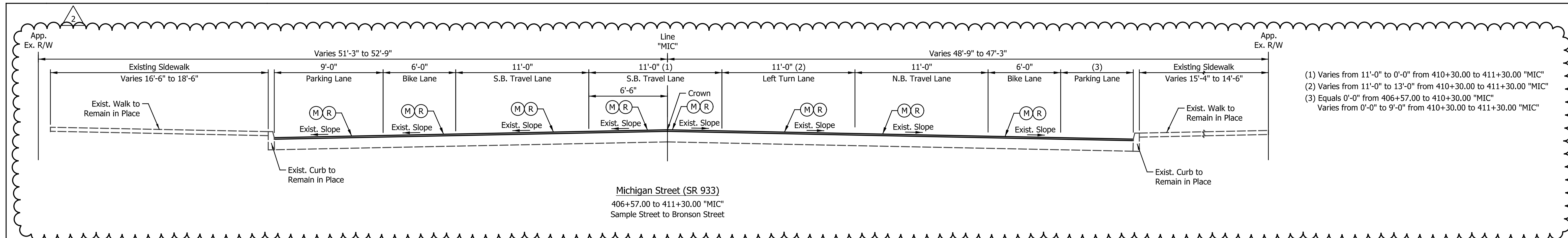


RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016
DESIGNED:	MRR	DATE
DRAWN:	MRR	
CHECKED:	PKW	

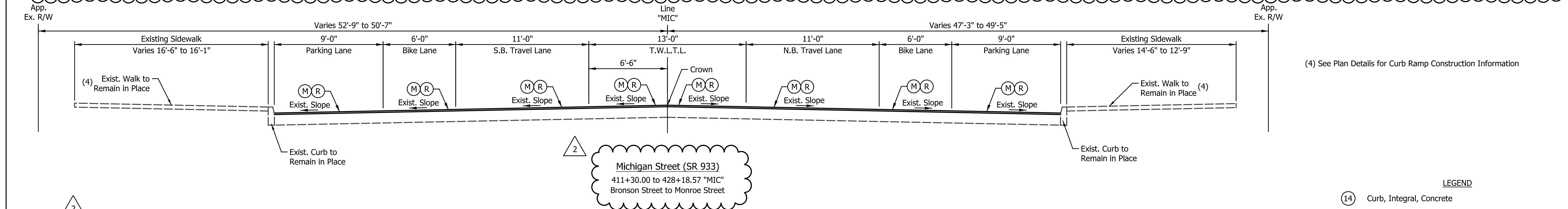
CITY OF SOUTH BEND	
TYPICAL CROSS SECTIONS MAIN STREET	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

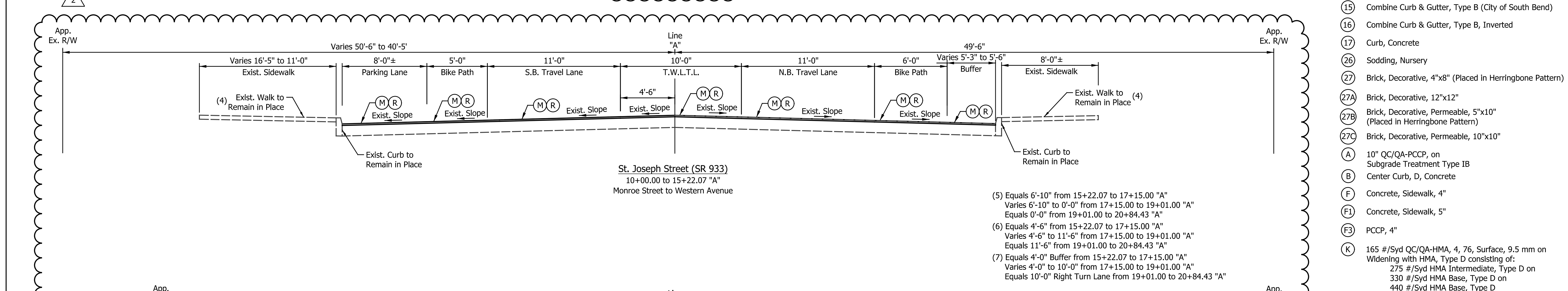
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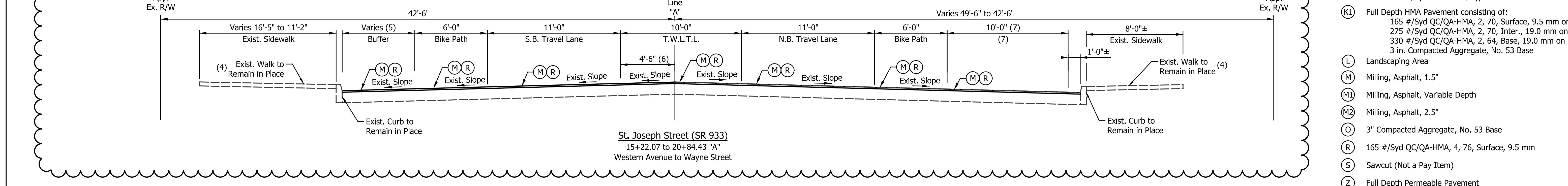
- (1) Varies from 11'-0" to 0'-0" from 410+30.00 to 411+30.00 "MIC"
- (2) Varies from 11'-0" to 13'-0" from 410+30.00 to 411+30.00 "MIC"
- (3) Equals 0'-0" from 406+57.00 to 410+30.00 "MIC"  
Varies from 0'-0" to 9'-0" from 410+30.00 to 411+30.00 "MIC"



(4) See Plan Details for Curb Ramp Construction Information



- (5) Equals 6'-10" from 15+22.07 to 17+15.00 "A"  
Varies 6'-10" to 0'-0" from 17+15.00 to 19+01.00 "A"  
Equals 0'-0" from 19+01.00 to 20+84.43 "A"
- (6) Equals 4'-6" from 15+22.07 to 17+15.00 "A"  
Varies 4'-6" to 11'-6" from 17+15.00 to 19+01.00 "A"  
Equals 11'-6" from 19+01.00 to 20+84.43 "A"
- (7) Equals 4'-0" Buffer from 15+22.07 to 17+15.00 "A"  
Varies 4'-0" to 10'-0" from 17+15.00 to 19+01.00 "A"  
Equals 10'-0" Right Turn Lane from 19+01.00 to 20+84.43 "A"



- LEGEND**
- (14) Curb, Integral, Concrete
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  - (16) Combine Curb & Gutter, Type B, Inverted
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  - (Z) Full Depth Permeable Pavement

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.

RECOMMENDED FOR APPROVAL: *Patrick Woodson* 1/7/2016  
DESIGN ENGINEER DATE

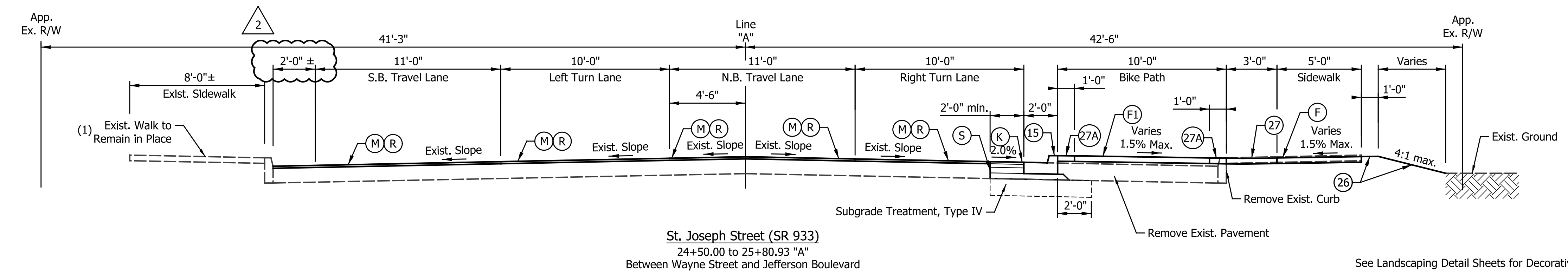
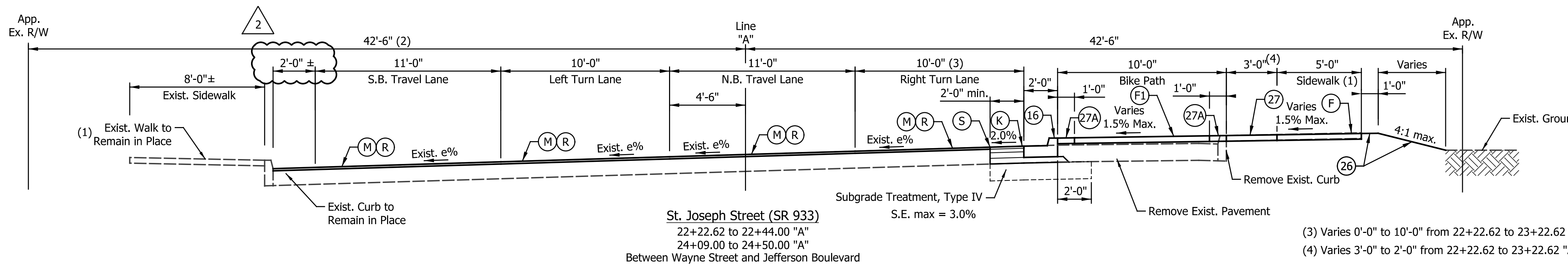
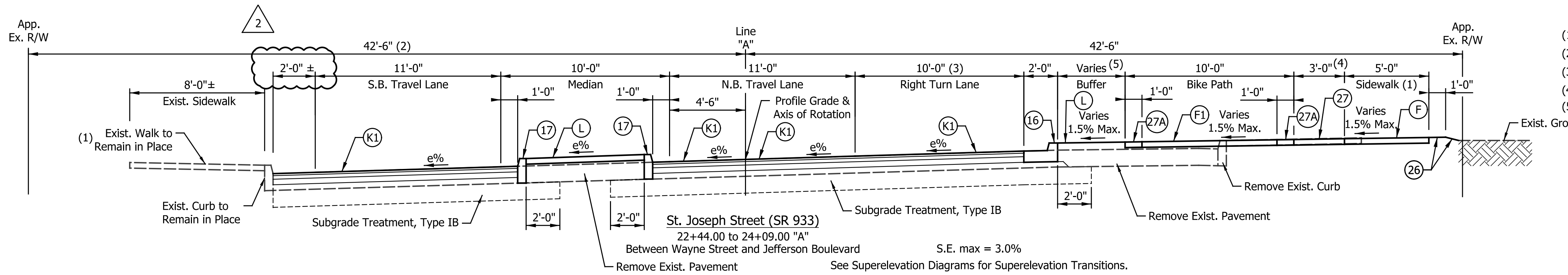
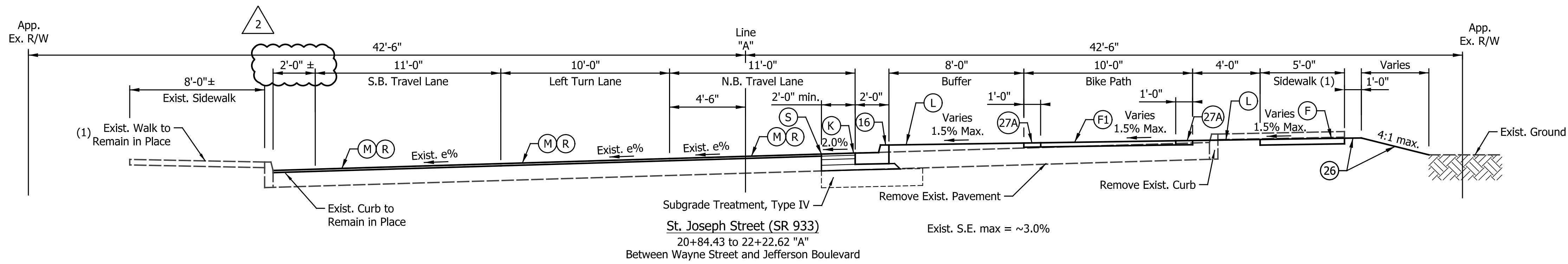
DESIGNED: MRR DRAWN: MRR  
CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

TYPICAL CROSS SECTIONS  
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	9 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 8:55:28 AM P:\2014\101351\Drawings\201401351.RD.TY.MICH.dgn



- (1) See Plan Details for Curb Ramp Construction Information
- (2) Equals 41'-3" from 23+19.71 to 25+80.93 "A"
- (3) Varies 0'-0" to 10'-0" from 22+22.62 to 23+22.62 "A"
- (4) Varies 4'-0" to 3'-0" from 22+22.62 to 23+22.62 "A"
- (5) Varies 8'-0" to 0'-0" from 22+22.62 to 23+22.62 "A"

- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (B) Center Curb, D, Concrete
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
275 #/Syd HMA Intermediate, Type D on  
330 #/Syd HMA Base, Type D on  
440 #/Syd HMA Base, Type D
  - (K1) Full Depth HMA Pavement consisting of:  
165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on  
275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
3 in. Compacted Aggregate, No. 53 Base
  - (L) Landscaping Area
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (O) 3" Compacted Aggregate, No. 53 Base
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

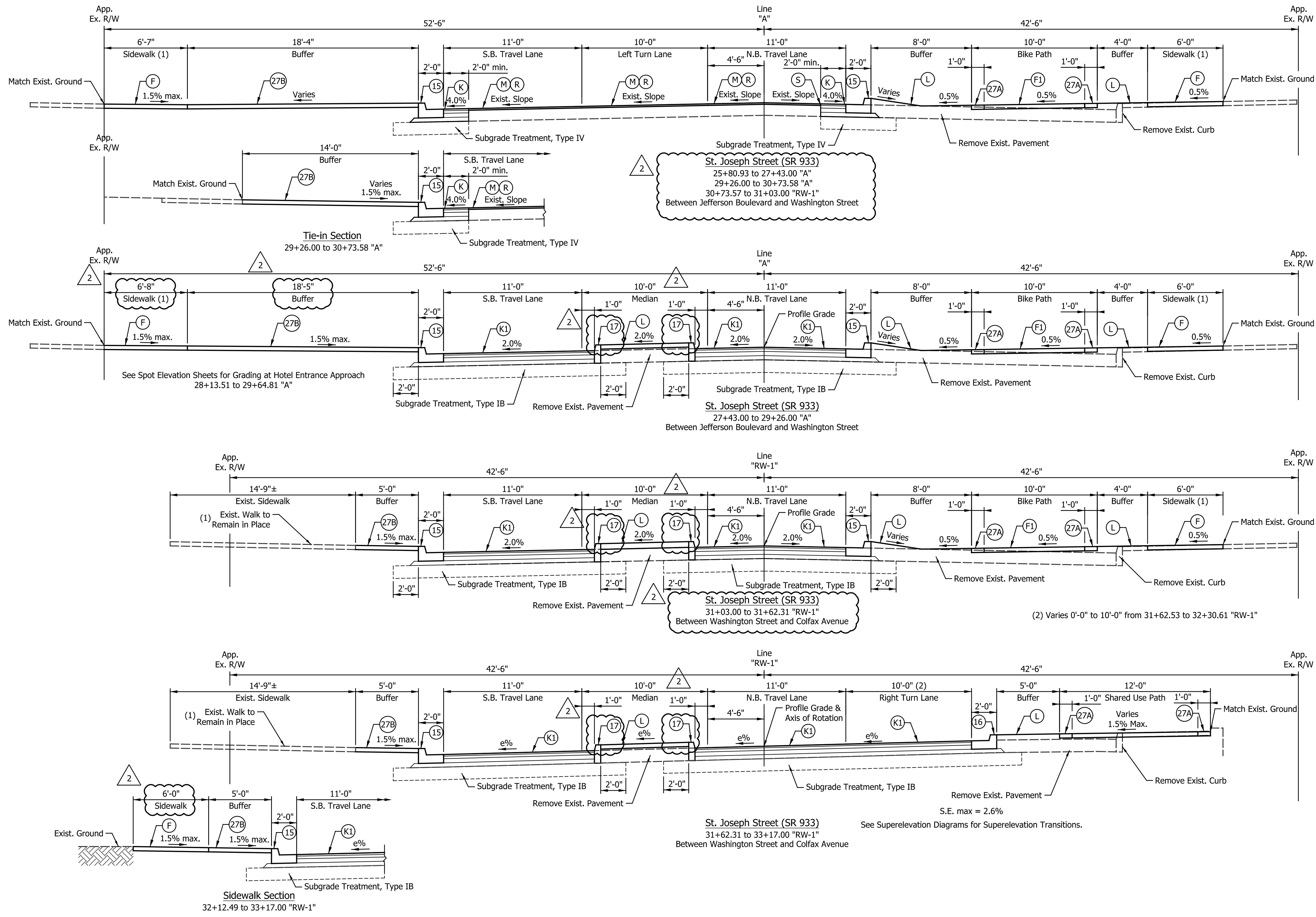
DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.

RECOMMENDED FOR APPROVAL: *Patrick Woodson* DESIGN ENGINEER DATE: 1/7/2016  
 DESIGNED: MRR DRAWN: MRR  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND  
**TYPICAL CROSS SECTIONS**  
**ST. JOSEPH STREET LINE "A"**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	10 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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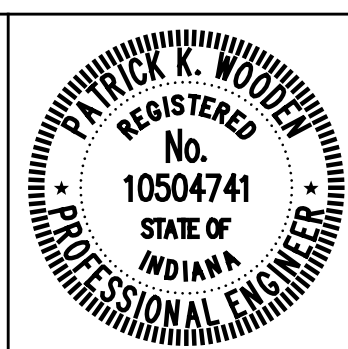
(1) See Plan Details for Curb Ramp Construction Information

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (26) Sodding, Nursery
- (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
- (27A) Brick, Decorative, 12"x12"
- (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
- (27C) Brick, Decorative, Permeable, 10"x10"
- (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
- (B) Center Curb, D, Concrete
- (F) Concrete, Sidewalk, 4"
- (F1) Concrete, Sidewalk, 5"
- (F3) PCCP, 4"
- (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
275 #/Syd HMA Intermediate, Type D on  
330 #/Syd HMA Base, Type D on  
440 #/Syd HMA Base, Type D
- (K1) Full Depth HMA Pavement consisting of:  
165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on  
275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
3 in. Compacted Aggregate, No. 53 Base
- (L) Landscaping Area
- (M) Milling, Asphalt, 1.5"
- (M1) Milling, Asphalt, Variable Depth
- (M2) Milling, Asphalt, 2.5"
- (O) 3" Compacted Aggregate, No. 53 Base
- (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
- (S) Sawcut (Not a Pay Item)
- (Z) Full Depth Permeable Pavement

See Landscaping Detail Sheets for Decorative Brick Details.

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.



RECOMMENDED FOR APPROVAL: *Patrick Woodman*  
DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: MRR  
CHECKED: PKW CHECKED: PKW

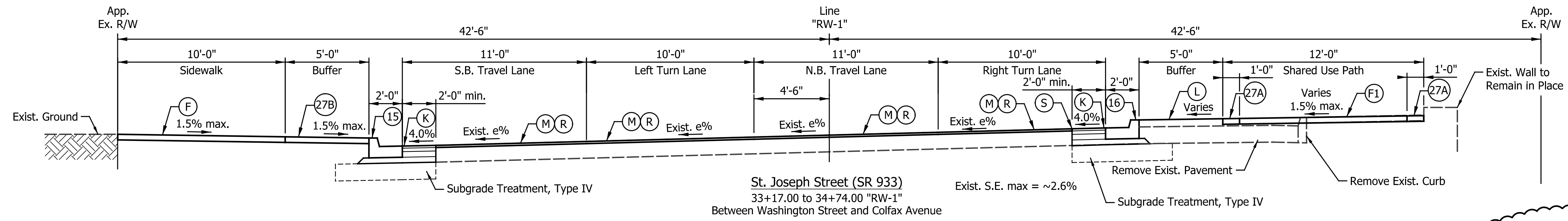
CITY OF SOUTH BEND

TYPICAL CROSS SECTIONS  
ST. JOSEPH STREET LINE "A" & "RW-1"

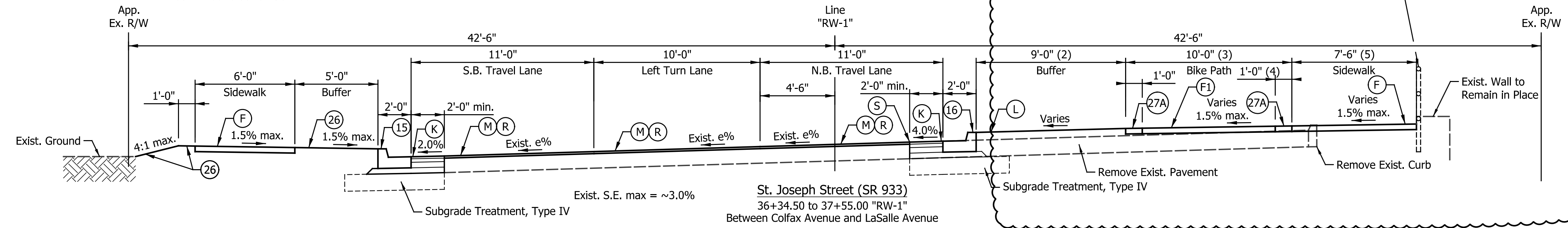
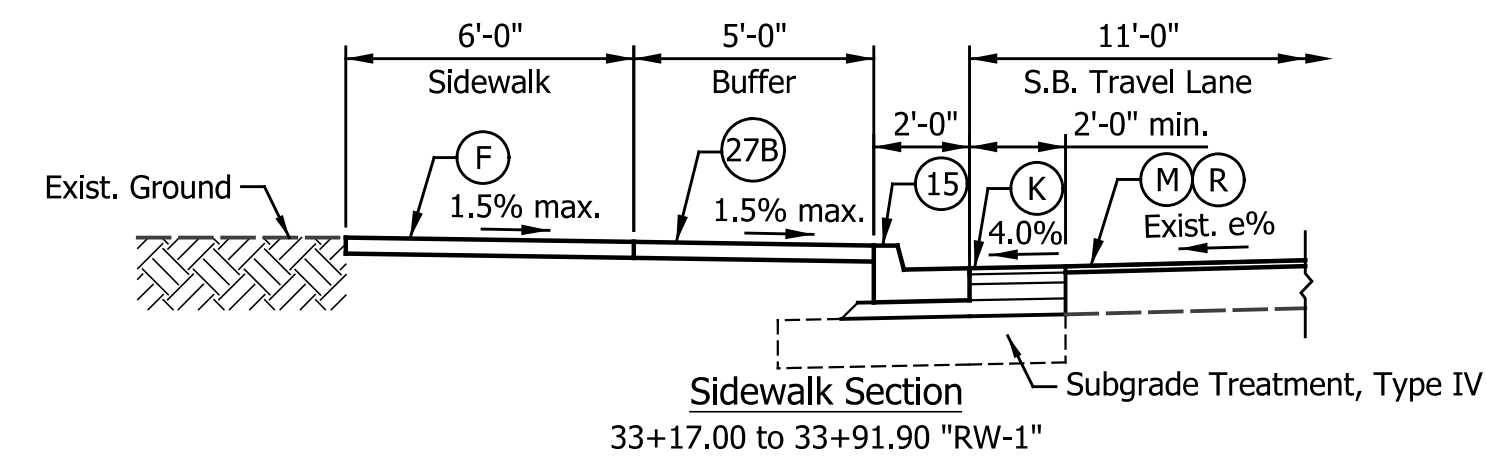
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	11 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 10:55:33 AM

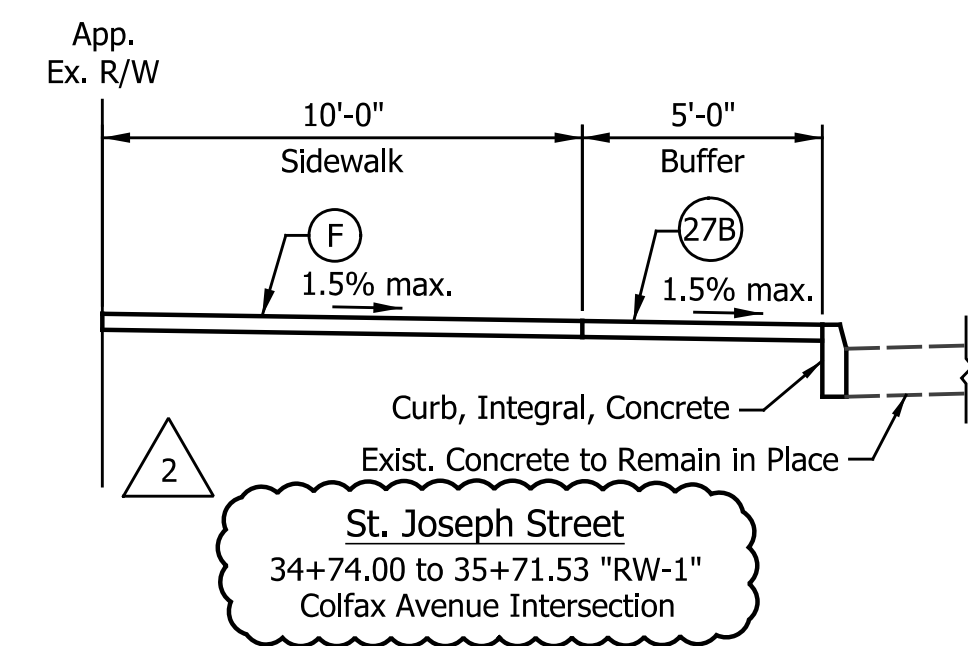




(1) See Plan Details for Curb Ramp Construction Information



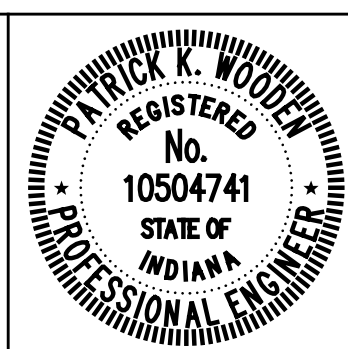
- (2) Equals 9'-6" from 36+34.50 to 36+58.37 "RW-1"  
Varies 9'-6" to 5'-0" from 36+58.37 to 37+16.66 "RW-1"  
Equals 5'-0" from 37+16.66 to 37+55.00 "RW-1"
- (3) Equals 11'-0" from 36+34.50 to 36+58.37 "RW-1"  
Varies 11'-0" to 10'-0" from 36+58.37 to 37+16.66 "RW-1"  
Equals 10'-0" from 37+16.66 to 37+55.00 "RW-1"
- (4) Equals 1'-0" from 36+34.50 to 36+65.97 "RW-1"  
Varies 1'-0" to 4'-0" from 36+65.97 to 36+83.26 "RW-1"  
Equals 10'-0" from 36+83.26 to 37+55.00 "RW-1"
- (5) Equals 5'-0" from 36+34.50 to 36+47.17 "RW-1"  
Varies between 5'-0" and 10'-6" from 36+47.17 to 37+16.66 "RW-1"  
Equals 10'-6" from 37+16.66 to 37+55.00 "RW-1"



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (B) Center Curb, D, Concrete
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
275 #/Syd HMA Intermediate, Type D on 330 #/Syd HMA Base, Type D on 440 #/Syd HMA Base, Type D
  - (K1) Full Depth HMA Pavement consisting of:  
165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on 275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on 330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on 3 in. Compacted Aggregate, No. 53 Base
  - (L) Landscaping Area
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (O) 3" Compacted Aggregate, No. 53 Base
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

See Landscaping Detail Sheets for Decorative Brick Details.

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.



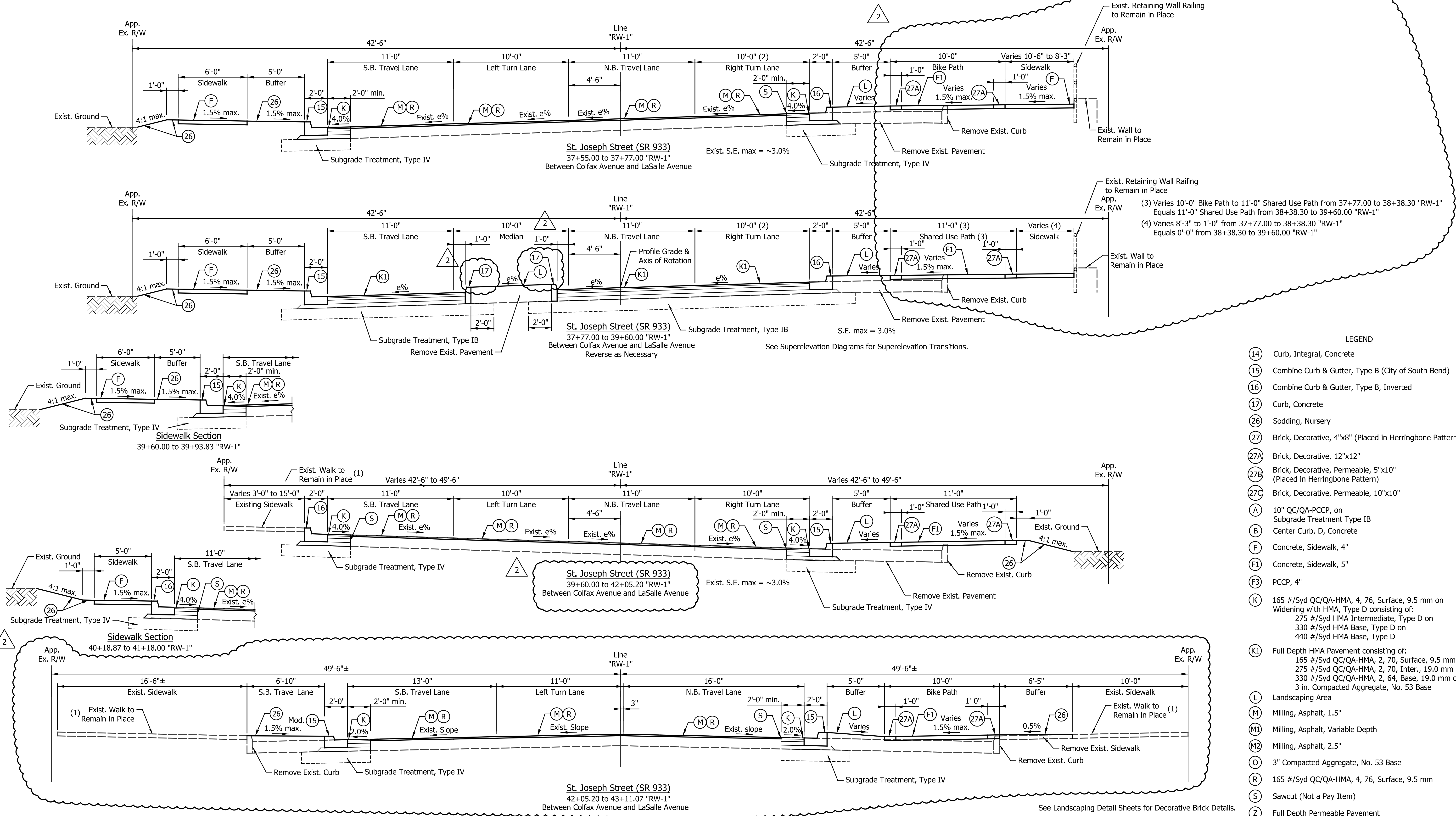
RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016
DESIGNED:	MRR	DRAWN:
CHECKED:	PKW	CHECKED:

CITY OF SOUTH BEND  
**TYPICAL CROSS SECTIONS**  
**ST. JOSEPH STREET LINE "RW-1"**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	12 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

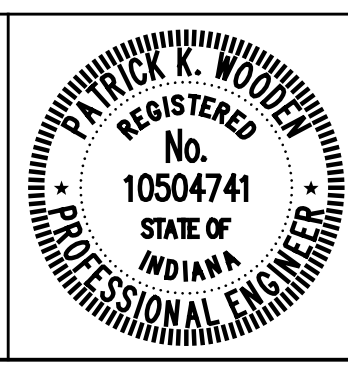
1/29/2016 8:55:35 AM P:\2014\101351\Drawings\201401351.RD.TY.STJO.03.dgn

- (1) See Plan Details for Curb Ramp Construction Information
- (2) Varies 0'-0" to 10'-0" from 37+55.00 to 38+55.00 "RW-1"



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (B) Center Curb, D, Concrete
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F3) PCCP, 4"
  - (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
275 #/Syd HMA Intermediate, Type D on  
330 #/Syd HMA Base, Type D on  
440 #/Syd HMA Base, Type D
  - (K1) Full Depth HMA Pavement consisting of:  
165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on  
275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
3 in. Compacted Aggregate, No. 53 Base
  - (L) Landscaping Area
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (O) 3" Compacted Aggregate, No. 53 Base
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut (Not a Pay Item)
  - (Z) Full Depth Permeable Pavement

DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.

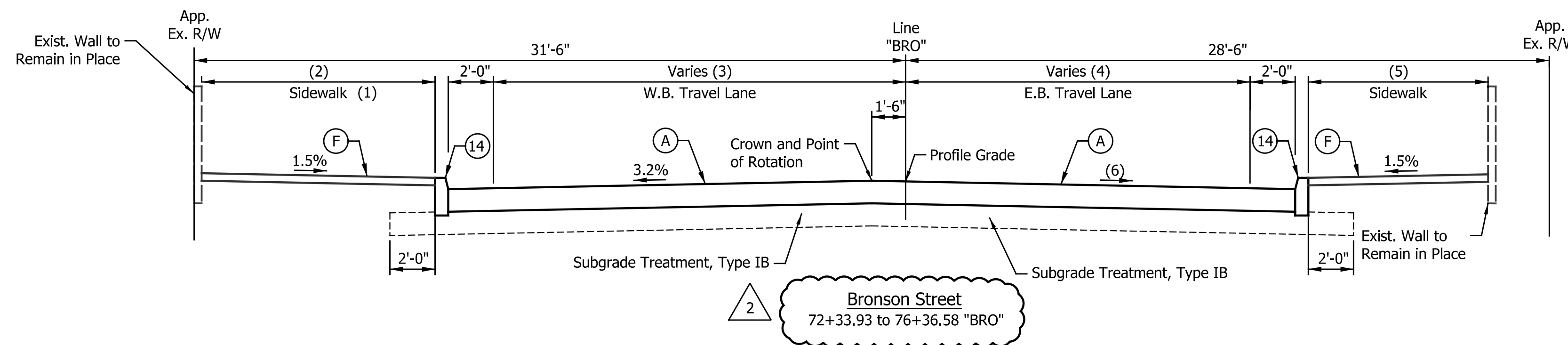
RECOMMENDED FOR APPROVAL	<i>Patrick Woodman</i>	1/7/2016
DESIGNED:	MRR	DATE
DRAWN:	MRR	
CHECKED:	PKW	
CHECKED:	PKW	

CITY OF SOUTH BEND

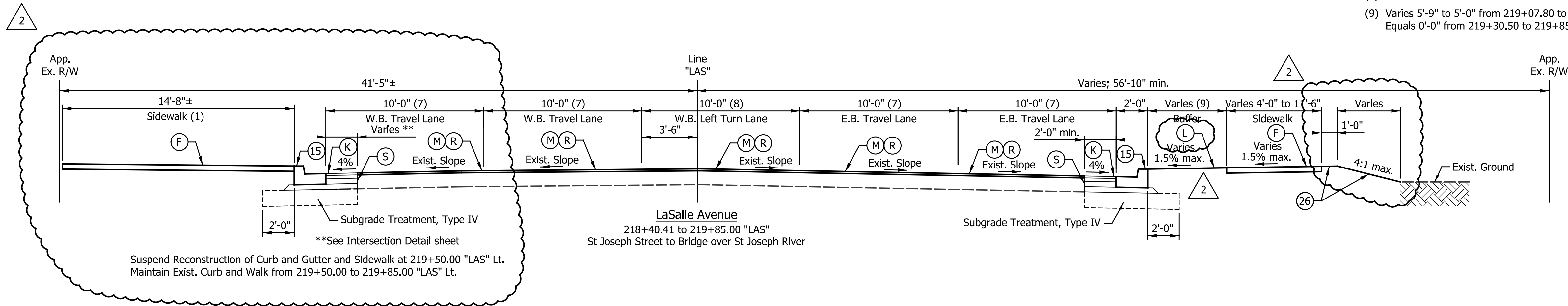
**TYPICAL CROSS SECTIONS**

**ST. JOSEPH STREET LINE "RW-1"**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	13 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



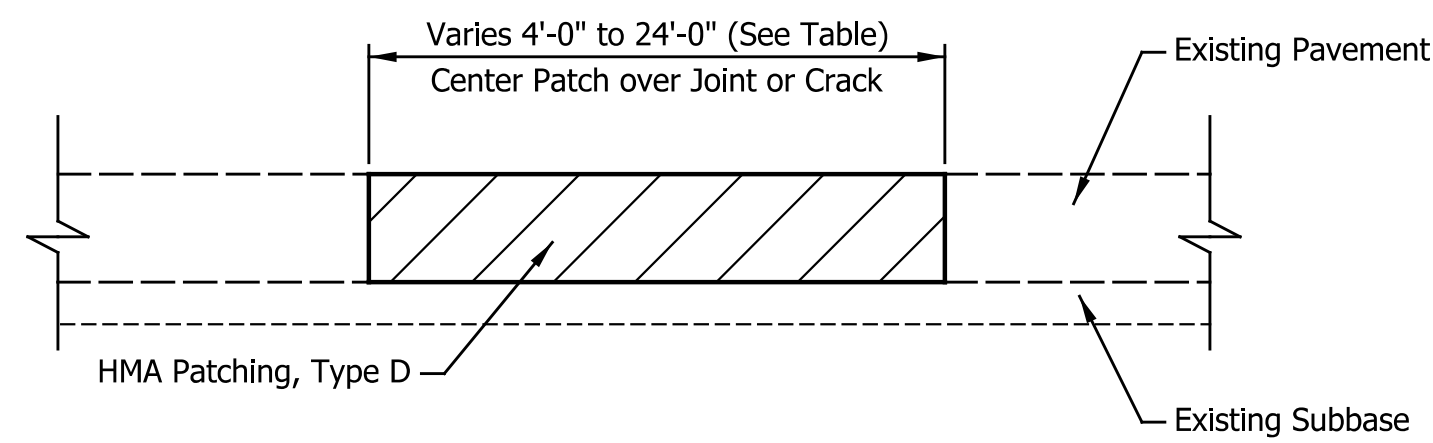
- (1) See Plan Details for Curb Ramp Construction Information
- (2) Exist. Walk to Remain in Place from 72+33.93 to 72+94.00 "BRO"  
 Equals 11'-8" from 72+94.00 to 74+35.09 "BRO"  
 Equals 8'-0" from 74+35.09 to 75+91.62 "BRO"  
 Exist. Walk to Remain in Place from 75+91.62 to 76+36.58 "BRO"
- (3) Varies 17'-4" to 16'-0" from 72+33.93 to 72+94.00 "BRO"  
 Equals 16'-0" from 72+94.00 to 75+91.62 "BRO"  
 Varies from 16'-0" to 17'-10" from 75+91.62 to 76+36.58 "BRO"
- (4) Varies 14'-6" to 14'-7" from 72+33.93 to 73+01.64 "BRO"  
 Varies 14'-7" to 13'-0" from 73+01.64 to 73+20.00 "BRO"  
 Equals 13'-0" from 73+20.00 to 75+73.30 "BRO"  
 Varies from 13'-0" to 14'-8" from 75+73.30 to 76+10.12 "BRO"  
 Varies from 14'-8" to 13'-3" from 76+10.12 to 76+36.58 "BRO"
- (5) Exist. Walk to Remain in Place from 72+33.93 to 73+01.64 "BRO"  
 Varies 5'-11" to 7'-6" from 73+01.64 to 73+20.00 "BRO"  
 Equals 7'-6" from 73+02.86 to 74+35.09 "BRO"  
 Equals 7'-9" from 74+35.09 to 75+73.30 "BRO"  
 Exist. Walk to Remain in Place from 75+73.30 to 76+36.58 "BRO"
- (6) Equals -2.0% from 72+33.93 to 72+50.00 "BRO"  
 Varies from -2.0% to +3.15% from 72+50.00 to 73+80.00 "BRO"  
 Equals +3.15% from 73+80.00 to 75+00.00 "BRO"  
 Varies from +3.15% to -2.0% from 75+00.00 to 76+36.58 "BRO"



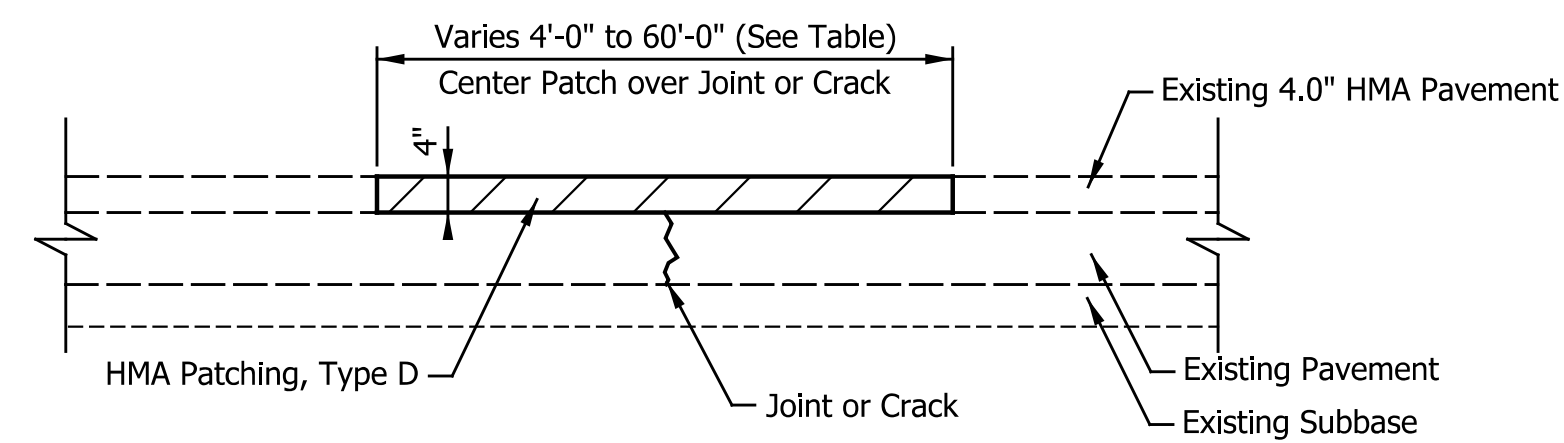
- (7) Varies 10'-0" to 12'-0" from 219+57.08 to 219+85.00 "LAS"
- (8) Varies 10'-0" to 0'-0" from 219+57.08 to 219+85.00 "LAS"
- (9) Varies 5'-9" to 5'-0" from 219+07.80 to 219+30.50 "LAS"  
 Equals 0'-0" from 219+30.50 to 219+85.00 "LAS"

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (26) Sodding, Nursery
- (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
- (27A) Brick, Decorative, 12"x12"
- (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
- (27C) Brick, Decorative, Permeable, 10"x10"
- (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
- (B) Center Curb, D, Concrete
- (F) Concrete, Sidewalk, 4"
- (F1) Concrete, Sidewalk, 5"
- (F3) PCCP, 4"
- (K) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Widening with HMA, Type D consisting of:  
 275 #/Syd HMA Intermediate, Type D on  
 330 #/Syd HMA Base, Type D on  
 440 #/Syd HMA Base, Type D
- (K1) Full Depth HMA Pavement consisting of:  
 165 #/Syd QC/QA-HMA, 2, 70, Surface, 9.5 mm on  
 275 #/Syd QC/QA-HMA, 2, 70, Inter., 19.0 mm on  
 330 #/Syd QC/QA-HMA, 2, 64, Base, 19.0 mm on  
 3 in. Compacted Aggregate, No. 53 Base
- (L) Landscaping Area
- (M) Milling, Asphalt, 1.5"
- (M1) Milling, Asphalt, Variable Depth
- (M2) Milling, Asphalt, 2.5"
- (O) 3" Compacted Aggregate, No. 53 Base
- (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
- (S) Sawcut (Not a Pay Item)
- (Z) Full Depth Permeable Pavement

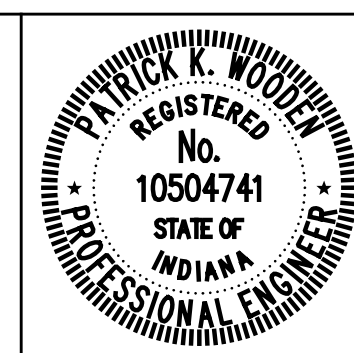


**FULL DEPTH HMA PATCH**  
 Scale: NTS  
 See Sheet 224 for Patching Locations and Depth.



**PARTIAL DEPTH HMA PATCH**  
 Scale: NTS  
 See Sheet 224 for Patching Locations.

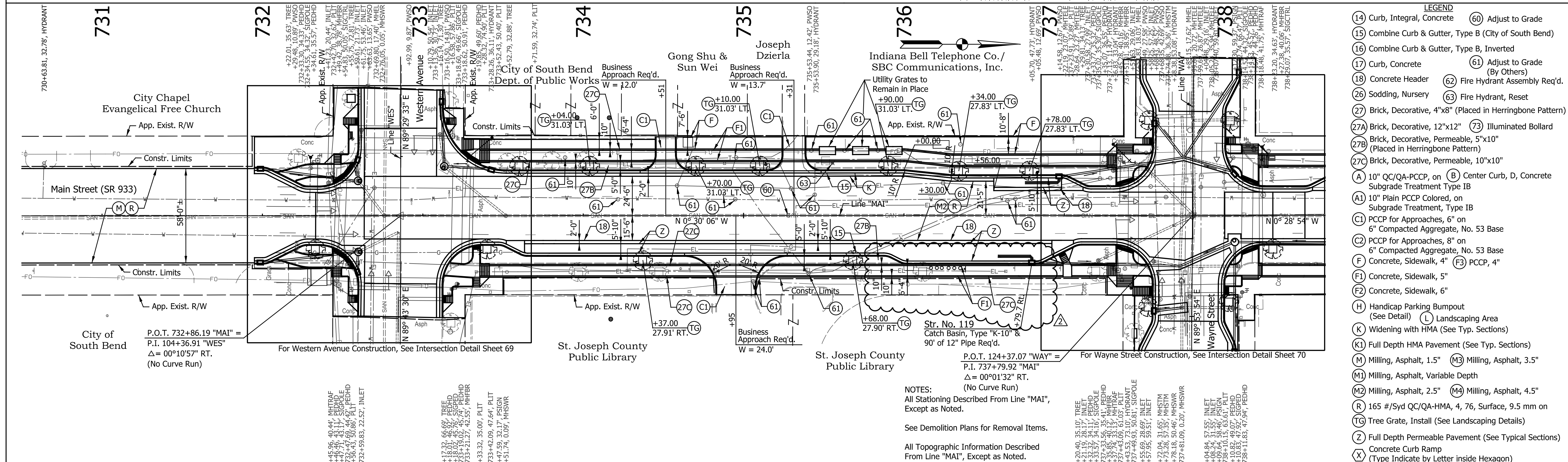
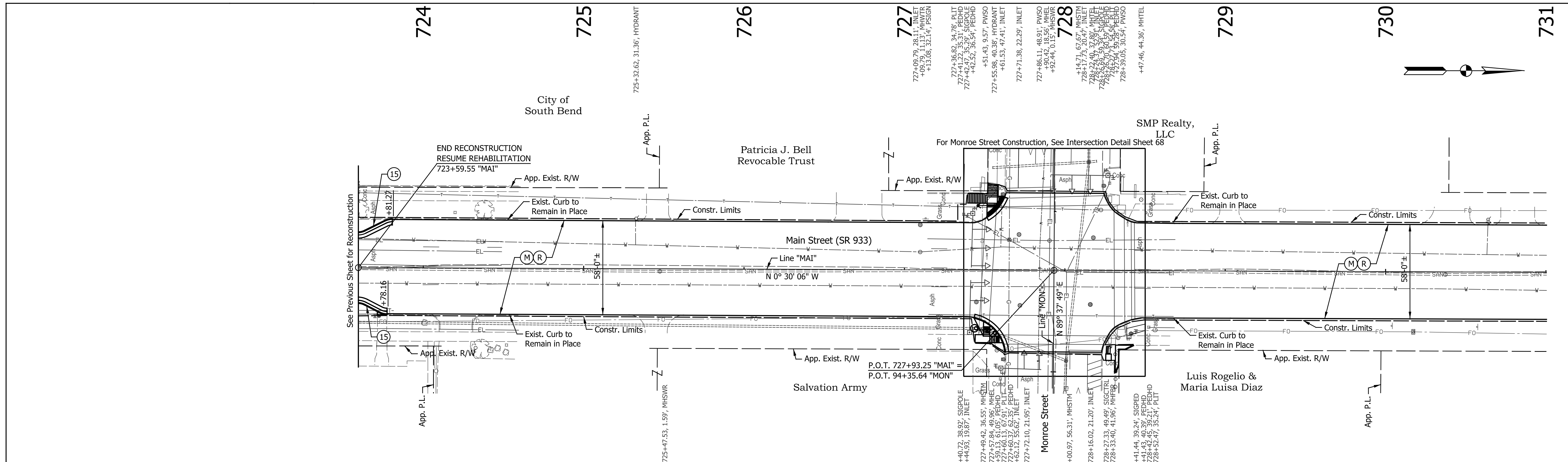
DATE	REVISION
1/29/2016	REV 2: Various Adjustments for Consistency.



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	MRR	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND	
<b>TYPICAL CROSS SECTIONS BRONSON STREET, LASALLE AVENUE, &amp; PATCHING DETAILS</b>	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	14 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on (B) Center Curb, D, Concrete Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M4) Milling, Asphalt, 4.5"
  - (165) #1/2" Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard
  - (73) Illuminated Bollard

REVISION	
1/29/2016	REV 2: Added Additional Handicap Parking & Removed Tree Grate

P.O.T. 732+86.19 "MAI" =  
 P.I. 104+36.91 "WES"  
 $\Delta = 00^{\circ}10'57''$  RT.  
 (No Curve Run)

P.O.T. 124+37.07 "WAY" =  
 P.I. 737+79.92 "MAI"  
 $\Delta = 00^{\circ}01'32''$  RT.  
 (No Curve Run)

NOTES:  
 All Stationing Described From Line "MAI",  
 Except as Noted.

See Demolition Plans for Removal Items.

All Topographic Information Described  
 From Line "MAI", Except as Noted.

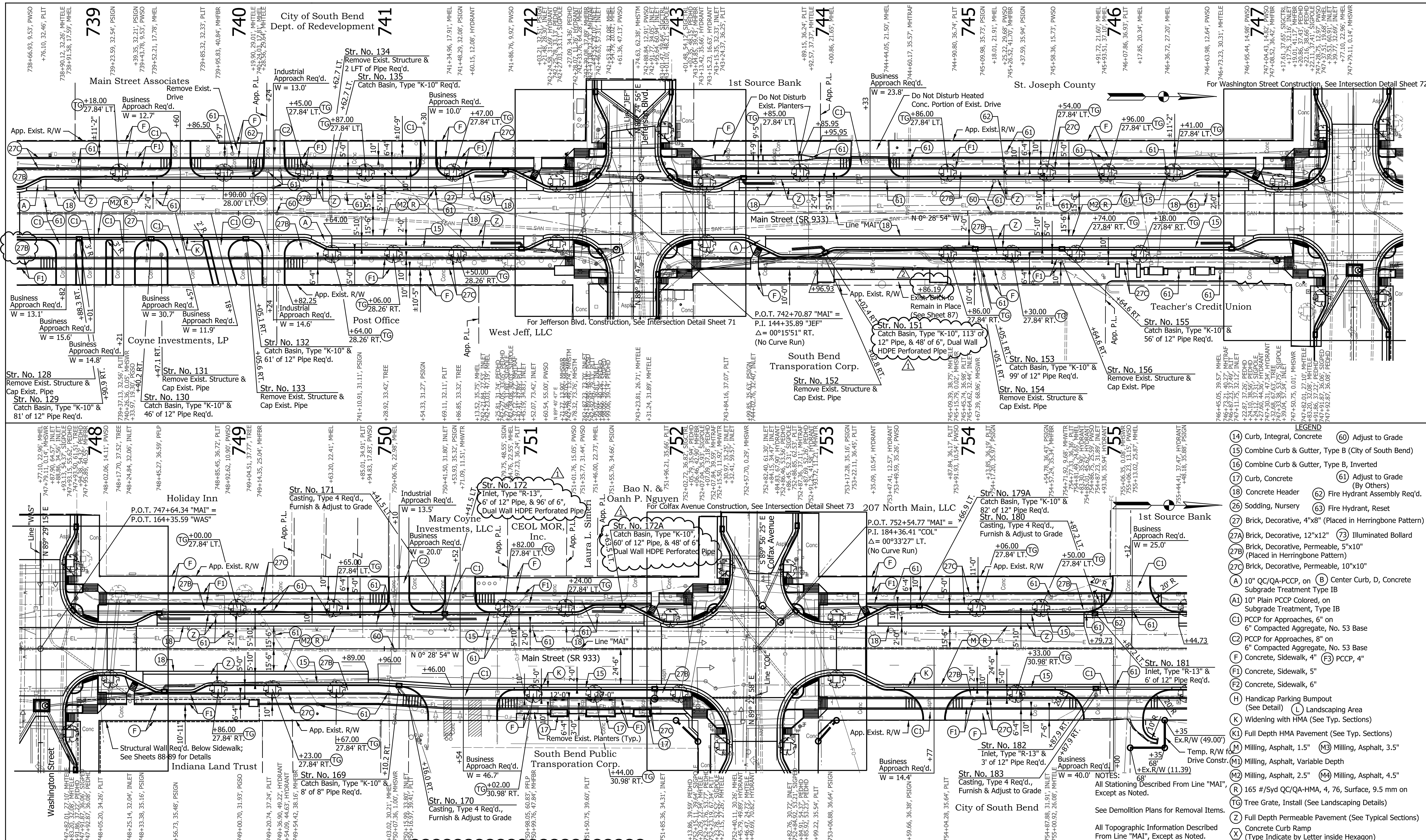
REGISTERED  
 No. 10504741  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL  
*Patrick Woodson*  
 DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	50 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 8:55:44 AM P:\2014\101351\101351.D, Drawings\2014\101351.LRD.CD.MAIN.02.dgn



DATE	REVISION
1/15/2016	REV 1: Revised Structure Label
1/29/2016	REV 2: Revised Labels

**STRUCTURE NOTES:**  
Structures 151, 172, and 172A contain 6" Dual Wall HDPE Perforated Pipe for Full Depth Permeable Pavement. See Detail in Typical Sections.

RECOMMENDED FOR APPROVAL: *Robert Wood* 1/7/2016  
DESIGN ENGINEER DATE

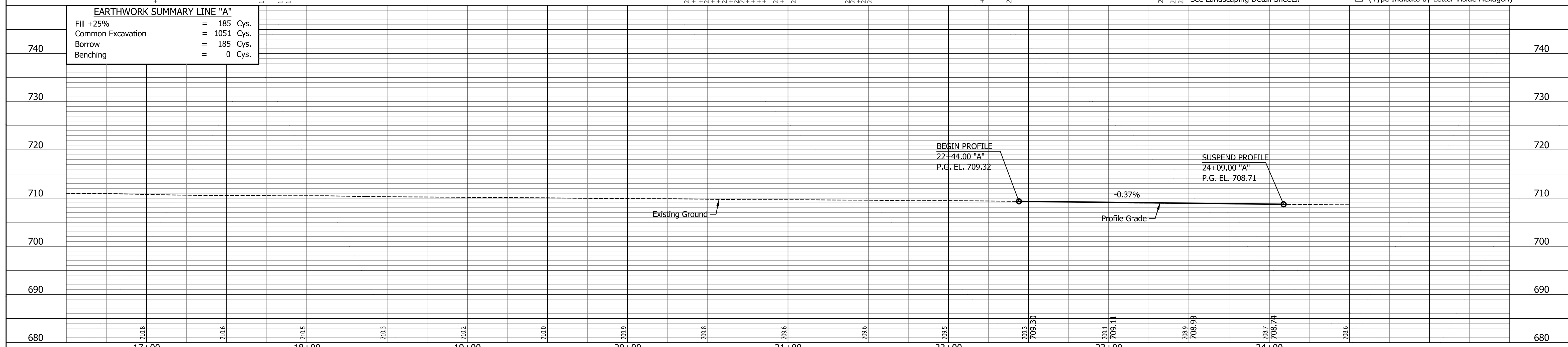
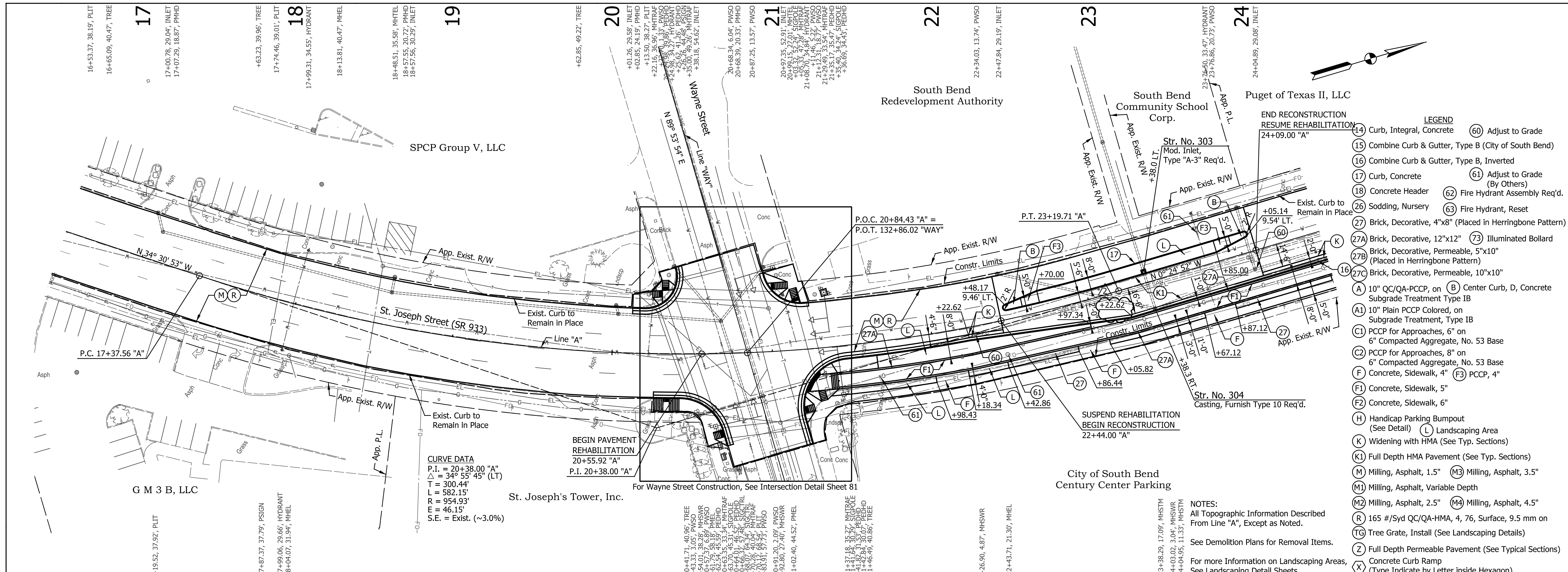
DESIGNED: MRR DRAWN: JRG  
CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND  
PLAN - LINE "MAI"  
MAIN STREET

**LEGEND**

(14) Curb, Integral, Concrete	(60) Adjust to Grade
(15) Combine Curb & Gutter, Type B (City of South Bend)	(61) Adjust to Grade (By Others)
(16) Combine Curb & Gutter, Type B, Inverted	(62) Fire Hydrant Assembly Req'd.
(17) Curb, Concrete	(63) Fire Hydrant, Reset
(18) Concrete Header	(64) Illuminated Bollard
(26) Sodding, Nursery	(65) Illuminated Bollard (Placed in Herringbone Pattern)
(27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)	(66) Illuminated Bollard (Placed in Herringbone Pattern)
(27A) Brick, Decorative, 12"x12"	(67) Illuminated Bollard (Placed in Herringbone Pattern)
(27B) Brick, Decorative, Permeable, 5"x10"	(68) Illuminated Bollard (Placed in Herringbone Pattern)
(27C) Brick, Decorative, Permeable, 10"x10"	(69) Illuminated Bollard (Placed in Herringbone Pattern)
(A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB	(B) Center Curb, D, Concrete
(AI) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB	(C) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
(CI) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base	(CZ) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
(F) Concrete, Sidewalk, 4"	(F3) PCCP, 4"
(F1) Concrete, Sidewalk, 5"	(F4) Concrete, Sidewalk, 4"
(F2) Concrete, Sidewalk, 6"	(H) Handicap Parking Bumpout (See Detail)
(K) Widening with HMA (See Typ. Sections)	(L) Landscaping Area
(K1) Full Depth HMA Pavement (See Typ. Sections)	(M) Milling, Asphalt, 1.5"
(M) Milling, Asphalt, 1.5"	(M3) Milling, Asphalt, 3.5"
(M1) Milling, Asphalt, Variable Depth	(M2) Milling, Asphalt, 2.5"
(M2) Milling, Asphalt, 2.5"	(M4) Milling, Asphalt, 4.5"
(R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on	(TG) Tree Grate, Install (See Landscaping Details)
(TG) Tree Grate, Install (See Landscaping Details)	(Z) Full Depth Permeable Pavement (See Typical Sections)
(Z) Full Depth Permeable Pavement (See Typical Sections)	(X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

NOTE: All Stationing Described From Line "MAI", Except as Noted.  
NOTE: See Demolition Plans for Removal Items.  
NOTE: All Topographic Information Described From Line "MAI", Except as Noted.



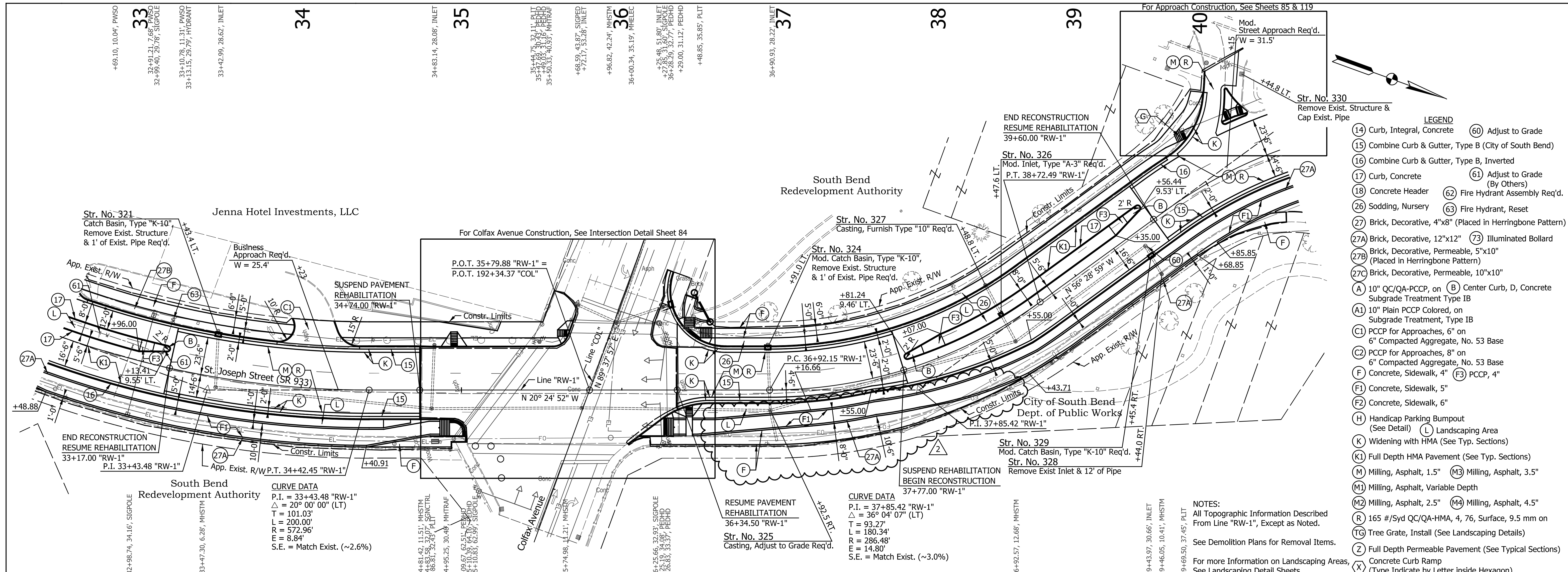
**EARTHWORK SUMMARY LINE "A"**

Fill +25%	=	185 Cys.
Common Excavation	=	1051 Cys.
Borrow	=	185 Cys.
Benching	=	0 Cys.

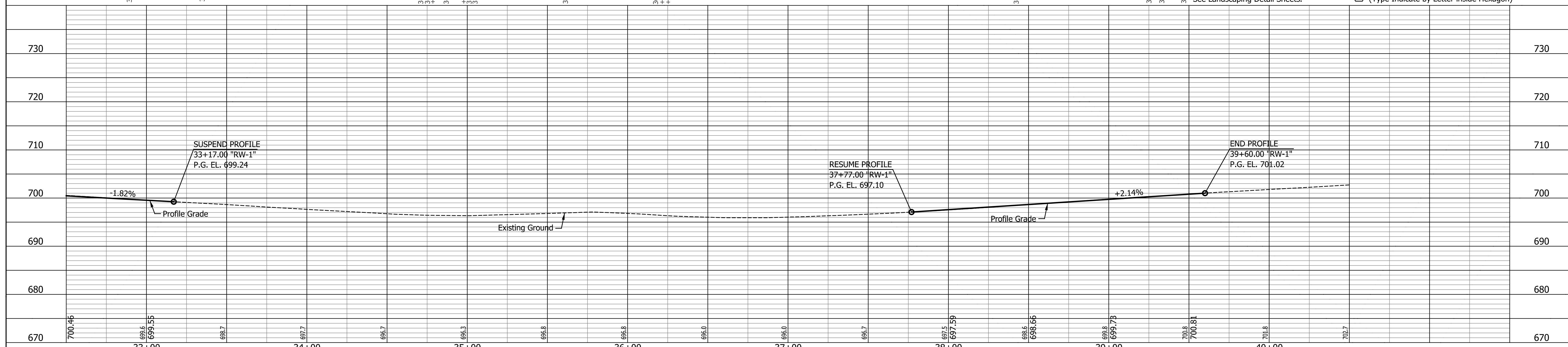
- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on (B) Center Curb, D, Concrete Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (L) Landscaping Area
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on
  - (TG) Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

DATE 1/29/2016	REVISION REV 2: Revised Label			RECOMMENDED FOR APPROVAL  DESIGN ENGINEER DATE: 1/7/2016	<b>CITY OF SOUTH BEND</b>  <b>PLAN AND PROFILE</b> <b>ST. JOSEPH STREET</b>	HORIZONTAL SCALE 1" = 30' VERTICAL SCALE 1" = 10' SURVEY BOOK N/A CONTRACT N/A	BRIDGE FILE N/A DESIGNATION N/A SHEETS 55 of 246 PROJECT 115-019 (DIV B)
DESIGNED: MRR		DRAWN: JRG		CHECKED: PKW			
CHECKED: PKW		CHECKED: PKW					

I:\info\pkr\mrr\201401351\3\mde.dwg  
 201401351\_3.mde.dwg



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (L) Landscaping Area
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on
  - (TG) Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard



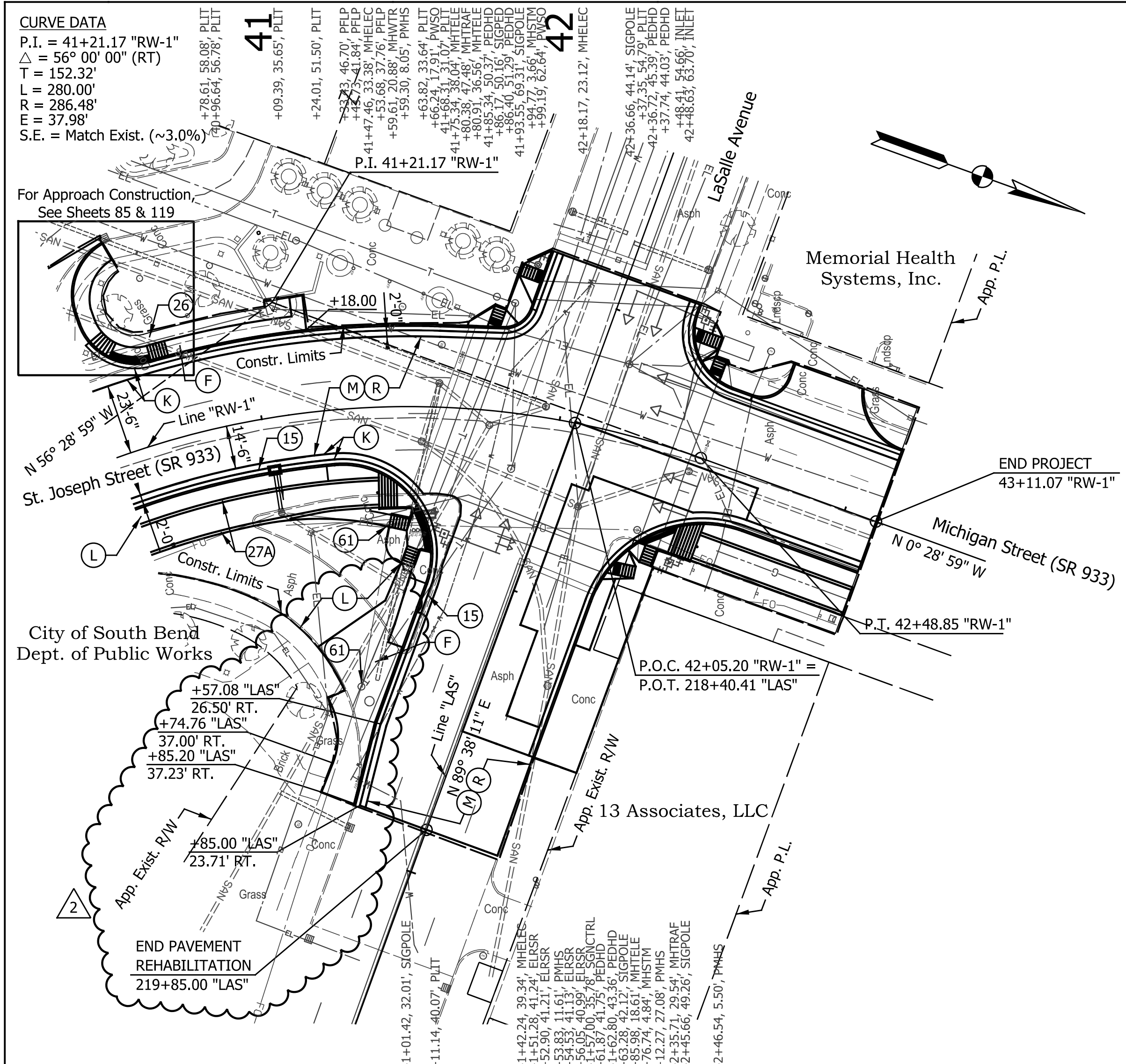
DATE	REVISION
1/29/2016	REV 2: Revised Sidewalk

RECOMMENDED FOR APPROVAL	<i>Patrick Woodman</i>	1/7/2016
DESIGNED:	MRR	DRAWN:
CHECKED:	PKW	CHECKED:

CITY OF SOUTH BEND  
 PLAN AND PROFILE  
 ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	57 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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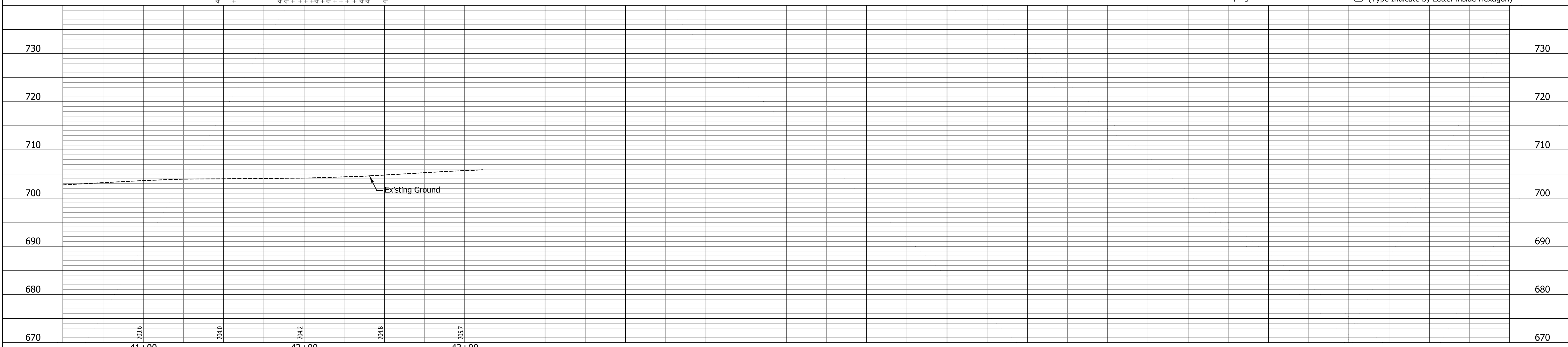


**CURVE DATA**  
 P.I. = 41+21.17 "RW-1"  
 $\Delta = 56^\circ 00' 00"$  (RT)  
 T = 152.32'  
 L = 280.00'  
 R = 286.48'  
 M = 37.98'  
 S.E. = Match Exist. (~3.0%)

For Approach Construction,  
 See Sheets 85 & 119

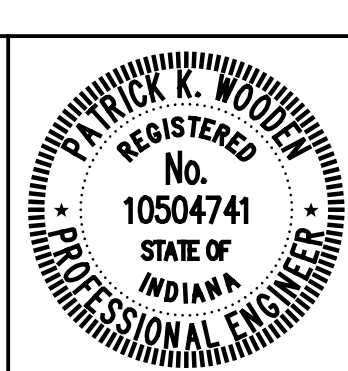
City of South Bend  
 Dept. of Public Works

END PAVEMENT  
 REHABILITATION  
 219+85.00 "LAS"



DATE	REVISION
1/29/2016	REV 2: Revised Sidewalk

DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016
DESIGNED:	MRR	DRAWN:
CHECKED:	PKW	CHECKED:
		DATE
	JRG	
	PKW	

CITY OF SOUTH BEND

PLAN AND PROFILE  
 ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	58 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (L) Landscaping Area
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M3) Milling, Asphalt, 3.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on
  - (TG) Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

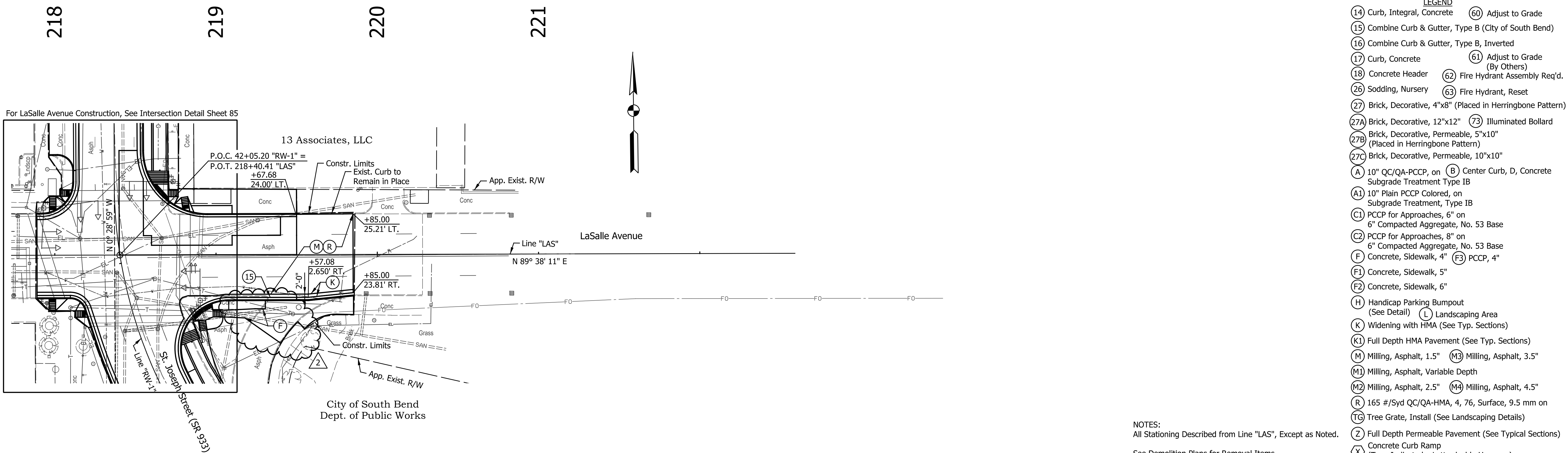
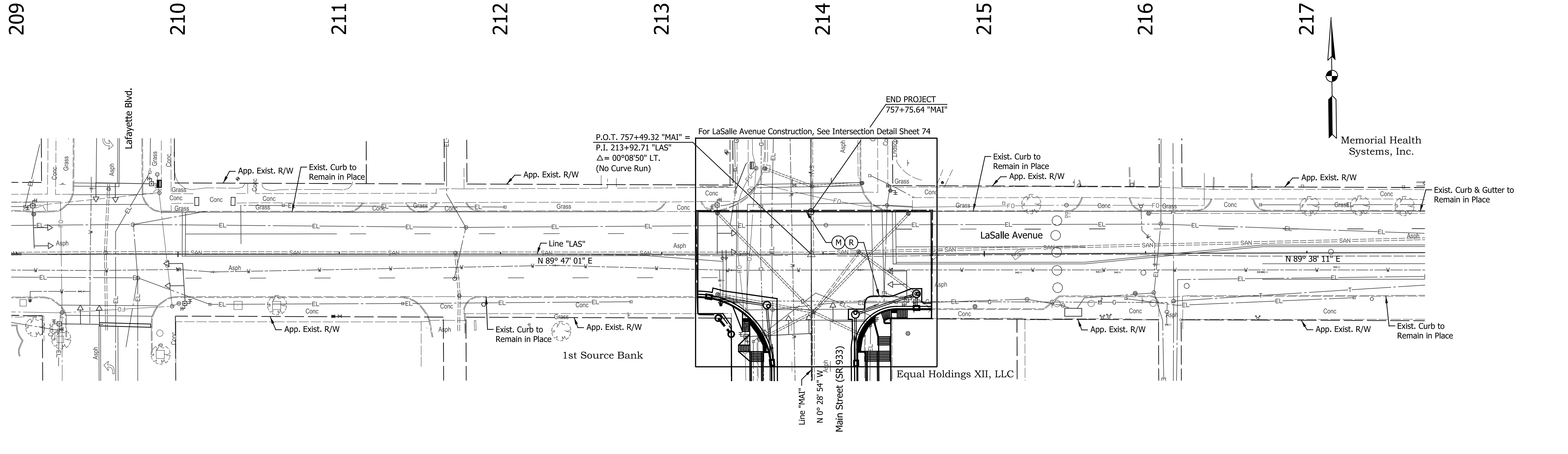
**NOTES:**  
 For LaSalle Avenue Construction,  
 See Intersection Detail Sheet 85.

All Topographic Information Described  
 From Line "RW-1", Except as Noted.

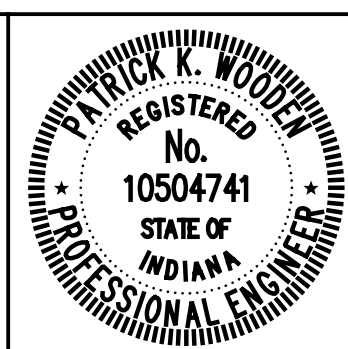
See Demolition Plans for Removal Items.

For more Information on Landscaping Areas,  
 See Landscaping Detail Sheets.





DATE	REVISION
1/29/2016	REV 2: Revised Sidewalk

RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016	
DESIGNED:	MRR	DRAWN:	JRG
CHECKED:	PKW	CHECKED:	PKW

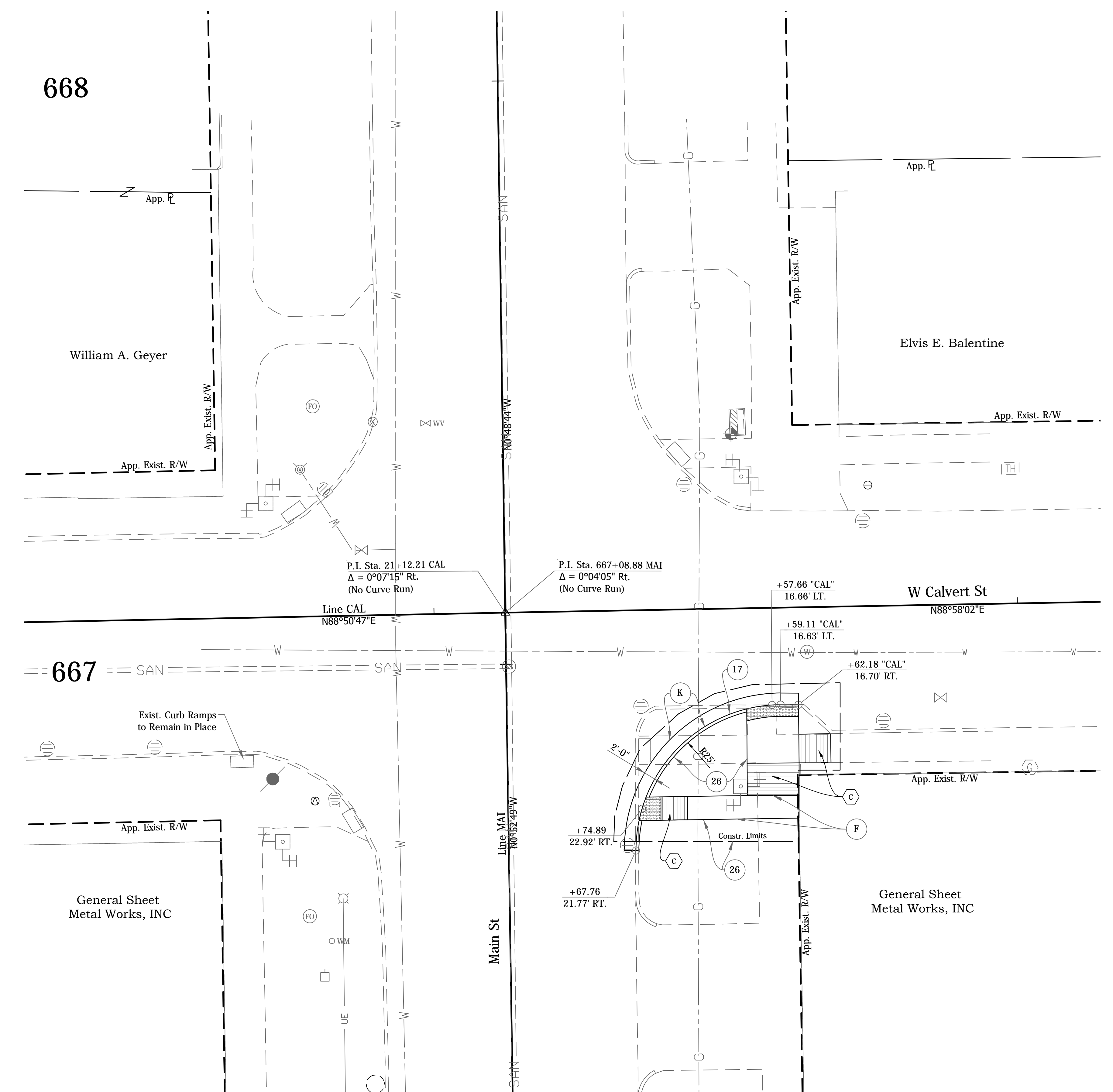
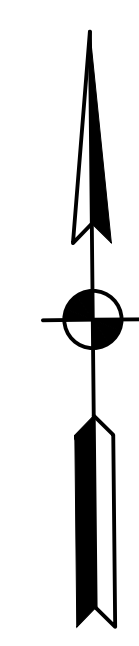
CITY OF SOUTH BEND  
**PLAN SHEET - LINE "LAS"**  
**LASALLE AVENUE**

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	60 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment, Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter Inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

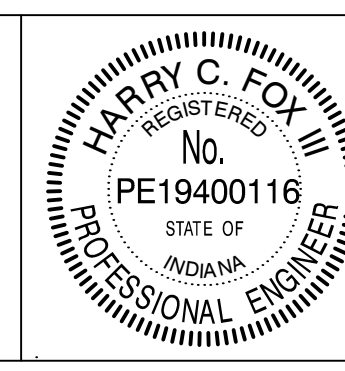
**NOTES:**  
 All Stationing Described from Line "LAS", Except as Noted.  
 See Demolition Plans for Removal Items.

I:\p1\1511\_3\mde.dwg  
 20160131\_1511\_3.mde.dwg



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (17) Curb, Concrete
  - (26) Sodding
  - (F) Concrete, Sidewalk, 4"
  - (K) Widening with HMA, TYPE "D"
  - (M) Milling, Asphalt, 1.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5mm
  - (S) Sawcut
  - (X) Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)
  - (Xm) Modified Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



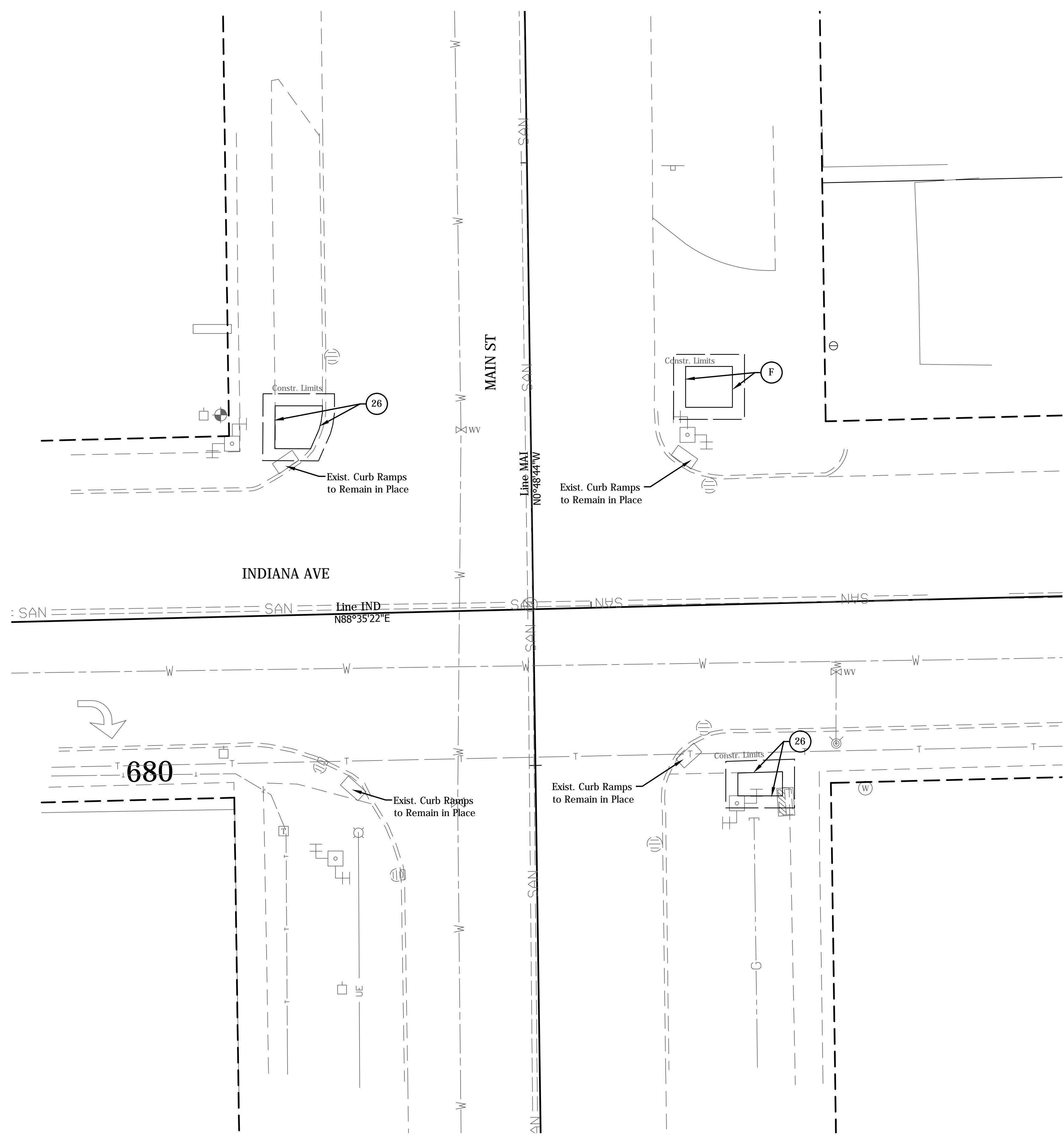
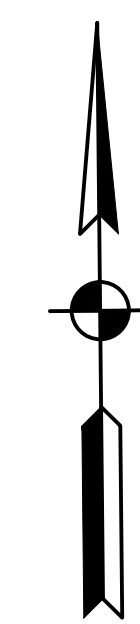
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
MAIN ST. AT CALVERT ST.**

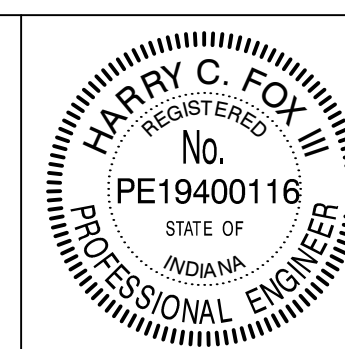
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	63 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3229 South Bend 2 Way Conversion\DRAWINGS\CONST DET\North  
 FILE: .....3229 CP MAIN -calvert ST.dwg  
 DIMSCALE: 1"=10'  
 PLOTTED BY: HDBR  
 DATE: 1/29/2016 8:05am



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (17) Curb, Concrete
  - (26) Sodding
  - (K) Widening with HMA, TYPE "D"
  - (M) Milling, Asphalt, 1.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut
  - (X) Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)
  - (Xm) Modified Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



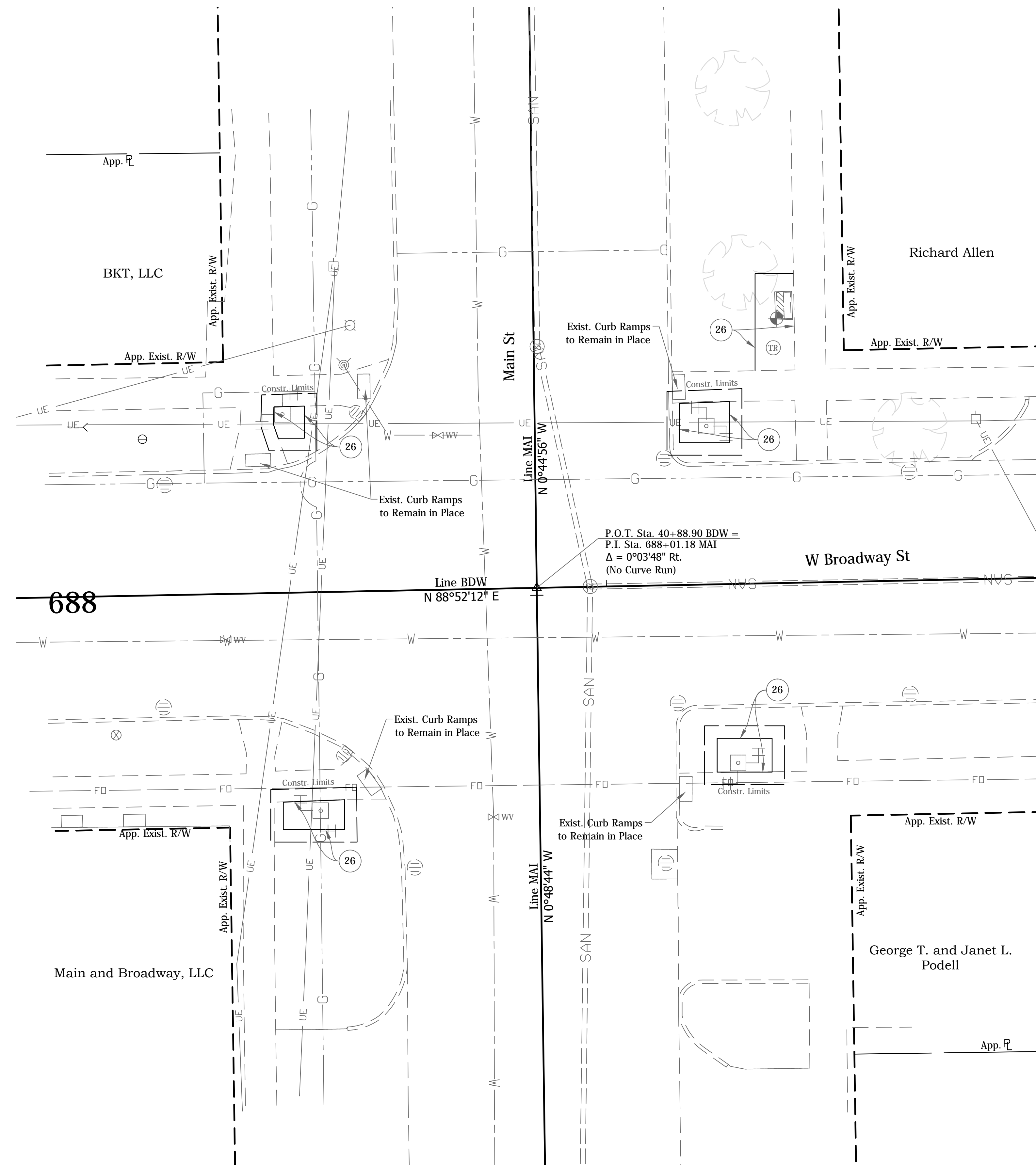
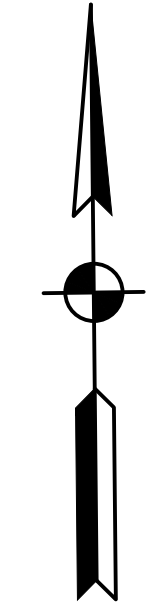
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:
		BRD
		JG

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
MAIN ST. AT INDIANA AVE.**

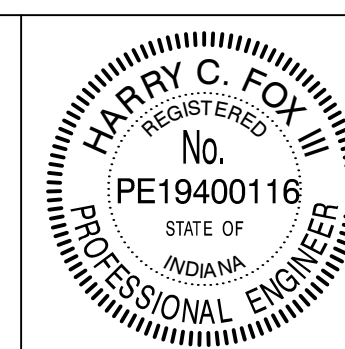
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	64 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3259 South Bend 2 Way Conversion\DRAWINGS\CONST DEF\North  
 FILE: .....3259 CP Main - Indiana.dwg  
 DIMSCALE: 1"=10'  
 PLOTTED BY: JG  
 DATE: 01/29/2016 8:09am



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (17) Curb, Concrete
  - (26) Sodding
  - (F) Concrete, Sidewalk, 4"
  - (K) Widening with HMA, TYPE "D"
  - (M) Milling, Asphalt, 1.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5mm
  - (S) Sawcut
  - (X) Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)
  - (Xm) Modified Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



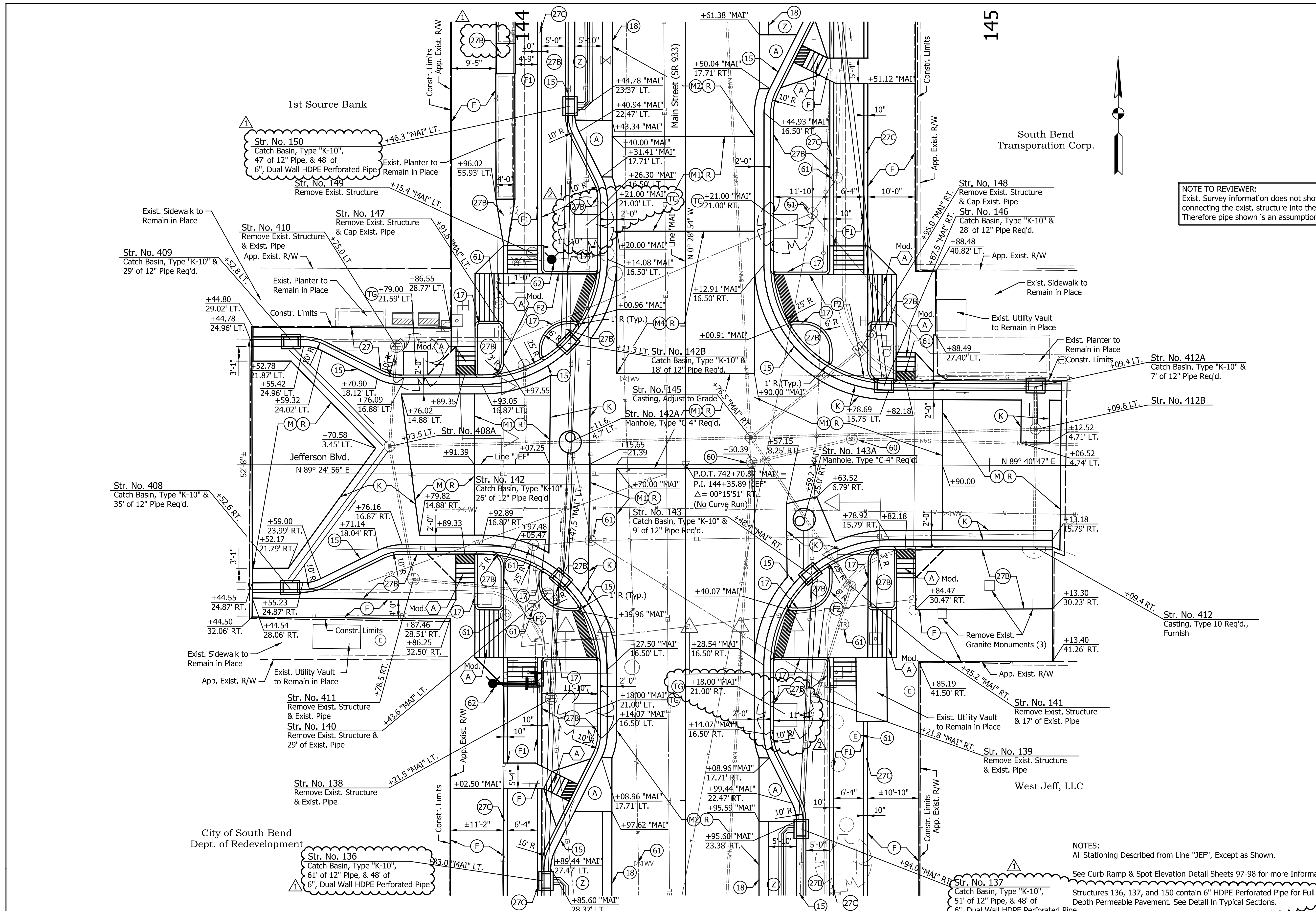
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
MAIN ST. AT BROADWAY ST.**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	65 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3259 South Bend 2 Way Conversion\DRAWINGS\CONST DEF\North  
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 DIMSCALE: 1"=SCALE.....10  
 PLOTTED BY: hdb...R...2016 - 8:07am  
 DATE: .....1/29/2016



**NOTE TO REVIEWER:**  
 Exist. Survey information does not show a pipe connecting the exist. structure into the trunkline. Therefore pipe shown is an assumption of exist.

- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M3) Milling, Asphalt, 3.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on
  - (TG) Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

**NOTES:**  
 All Stationing Described from Line "JEF", Except as Shown.  
 See Curb Ramp & Spot Elevation Detail Sheets 97-98 for more Information.  
 Structures 136, 137, and 150 contain 6" HDPE Perforated Pipe for Full Depth Permeable Pavement. See Detail in Typical Sections.

DATE	REVISION
1/15/2016	REV 1: Added Material Bubble & Revised Structure Label
1/29/2016	REV 2: Added Tree Grates

City of South Bend  
 Dept. of Redevelopment

Str. No. 136  
 Catch Basin, Type "K-10",  
 61' of 12" Pipe, & 48' of  
 6", Dual Wall HDPE Perforated Pipe

REGISTERED PROFESSIONAL ENGINEER  
 No. 10504741  
 STATE OF INDIANA

RECOMMENDED FOR APPROVAL  
*Robert W. ...*  
 DESIGN ENGINEER 1/7/2016

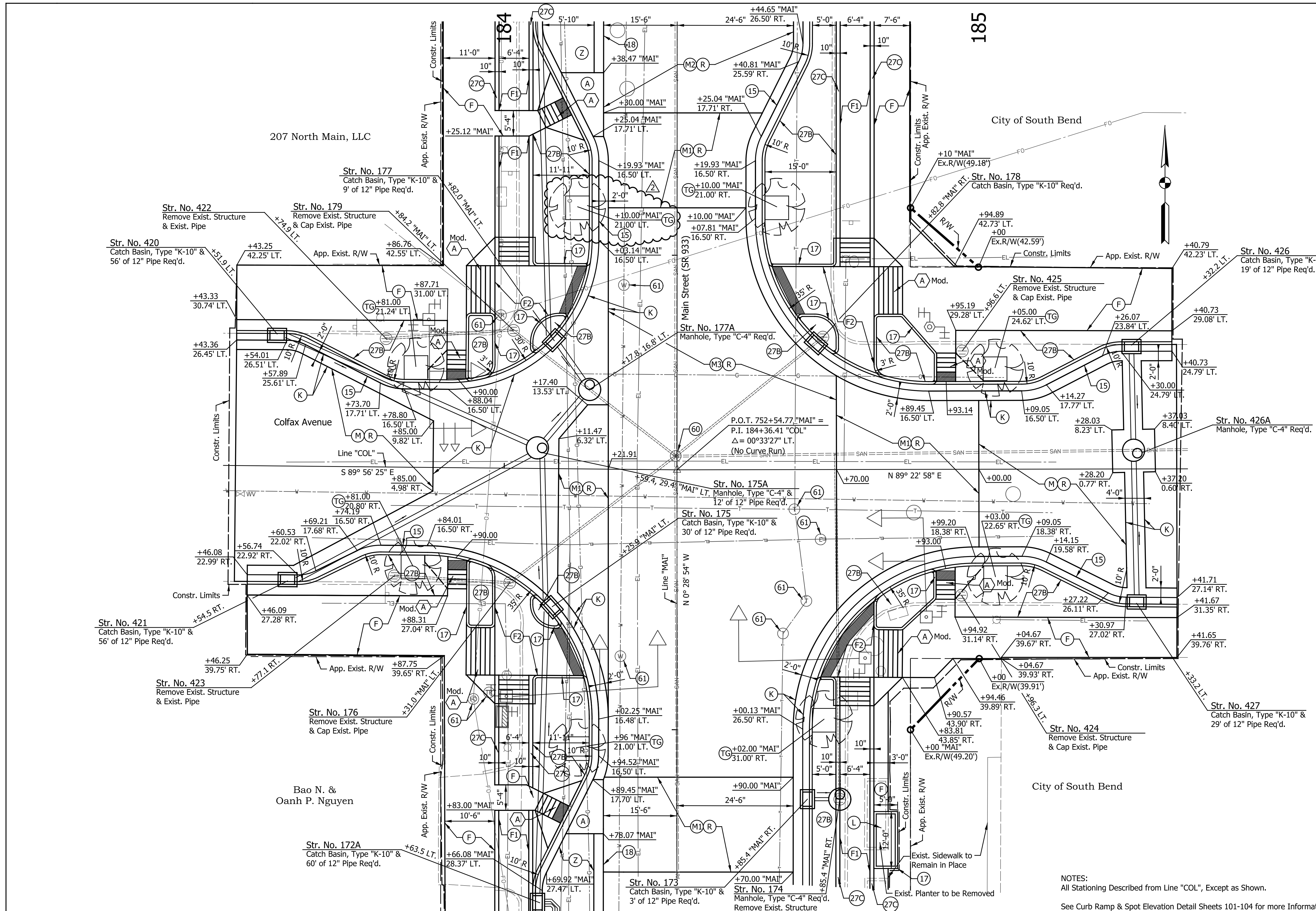
DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
 MAIN ST. AT JEFFERSON BLVD.**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	71 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

20160131\_136.dwg  
 1/29/2016 8:56:04 AM  
 P:\2014\0131\1\Drawings\20140131\RD.DS.JEF\_MAIN.dgn



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on Subgrade Treatment, Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 5"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

DATE	REVISION
1/29/2016	REV 2: Added Tree Grate

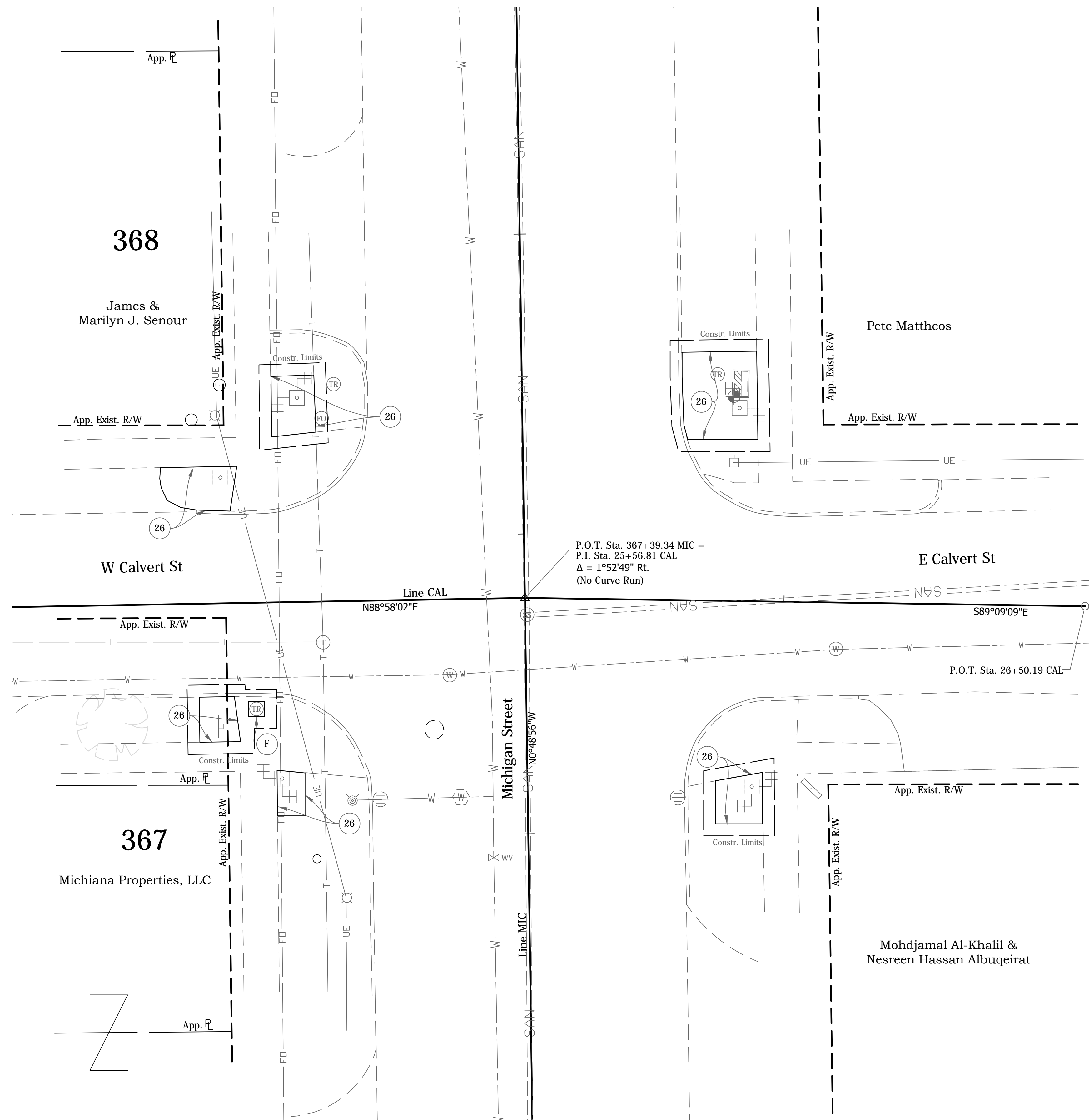
Str. No. 173 Catch Basin, Type "K-10" & 3' of 12" Pipe Req'd.  
 Str. No. 174 Manhole, Type "C-4" Req'd. Remove Exist. Structure  
 Str. No. 175 Catch Basin, Type "K-10" & 30' of 12" Pipe Req'd.  
 Str. No. 175A Manhole, Type "C-4" & 12' of 12" Pipe Req'd.  
 P.O.T. 752+54.77 "MAI" = P.I. 184+36.41 "COL" Δ = 0°33'27" LT. (No Curve Run)

RECOMMENDED FOR APPROVAL: *Robert W. Wood*  
 DESIGN ENGINEER 1/7/2016 DATE  
 DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND  
 INTERSECTION DETAILS  
 MAIN ST. AT COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	73 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 8:56:07 AM P:\2014\101351\Drawings\201401351.RD.DS.COL\_MAIN.dgn



P.O.T. Sta. 367+39.34 MIC =  
 P.I. Sta. 25+56.81 CAL  
 $\Delta = 1^{\circ}52'49''$  Rt.  
 (No Curve Run)

P.O.T. Sta. 26+50.19 CAL

**LEGEND**

- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (17) Curb, Concrete
- (26) Sodding
- (K) Widening with HMA, TYPE "D"
- (M) Milling, Asphalt, 1.5"
- (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
- (S) Sawcut
- (X) Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)
- (Xm) Modified Concrete Curb Ramp  
(Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



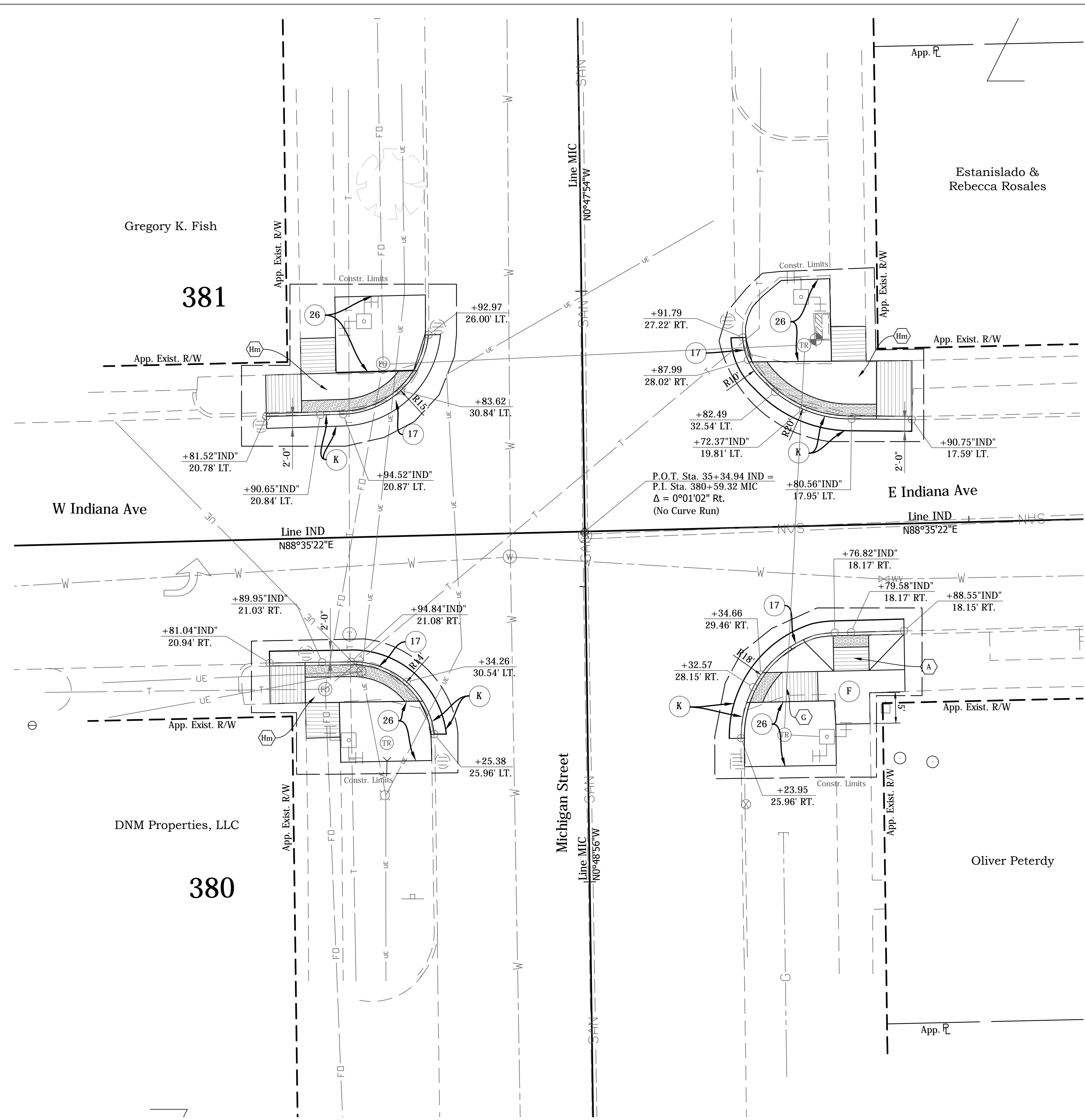
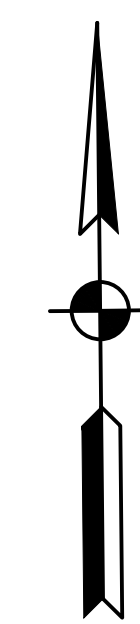
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016
DESIGNED:	HCF III	DRAWN:	BRD
CHECKED:	JG	CHECKED:	JG

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
 MICHIGAN ST. AT CALVERT ST.**

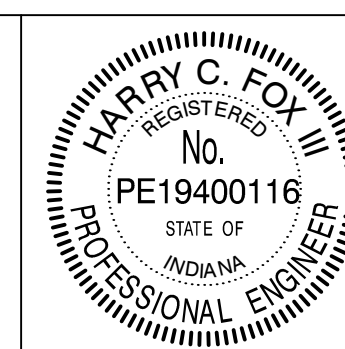
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1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	75 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3329 South Bend 2 Way Conversion\DRAWINGS\CONST DET\North  
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 PLOTTED BY: BRD  
 DATE: 01/07/2016 8:07am



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (17) Curb, Concrete
  - (26) Sodding
  - (K) Widening with HMA, TYPE "D"
  - (M) Milling, Asphalt, 1.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (Xm) Modified Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016
DESIGNED:	HCF III	DRAWN:	BRD
CHECKED:	JG	CHECKED:	JG

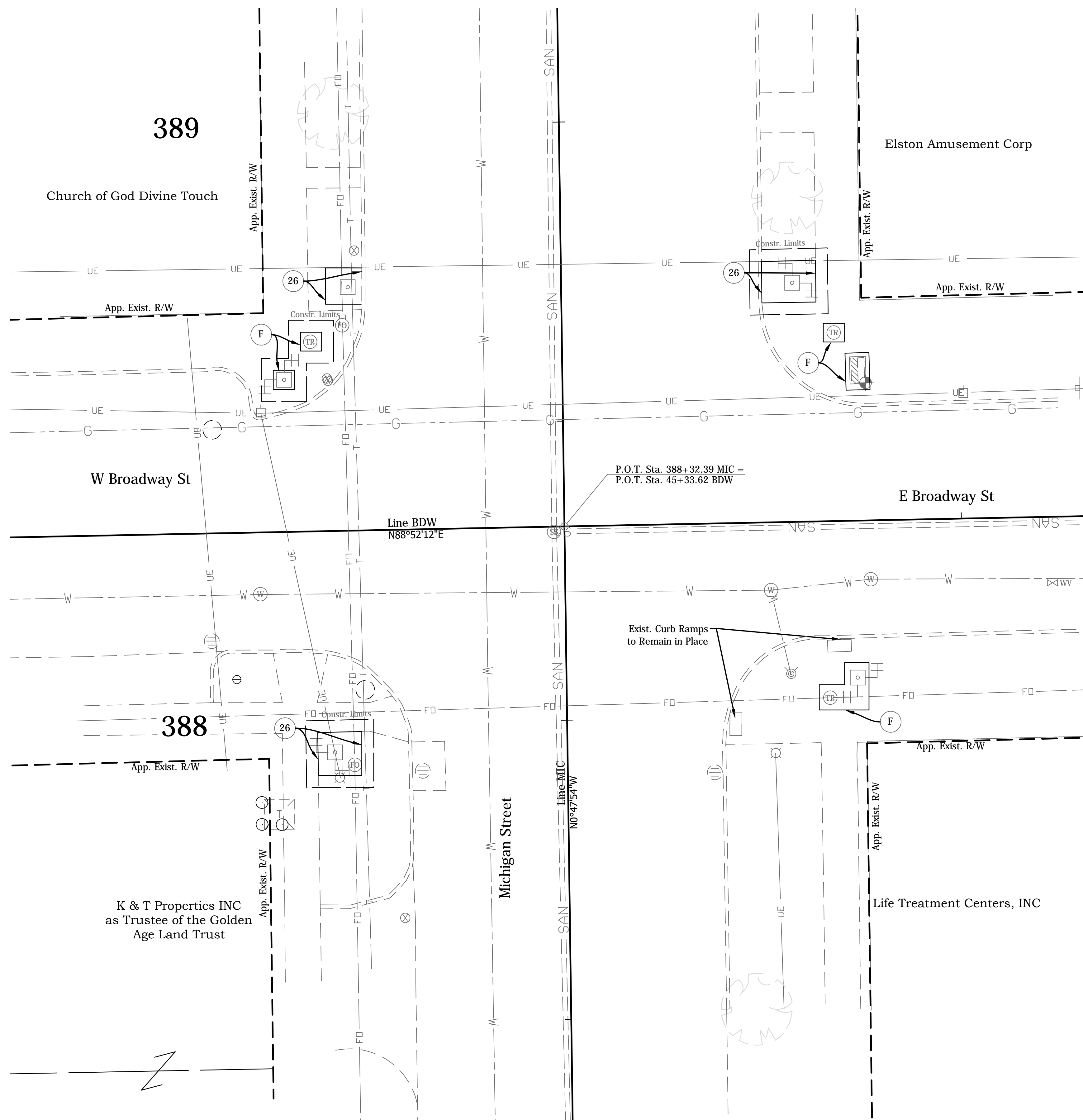
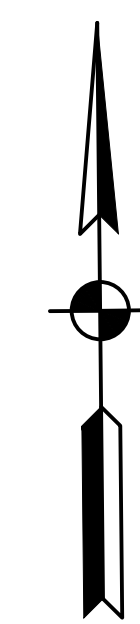
CITY OF SOUTH BEND

**INTERSECTION DETAILS  
MICHIGAN ST. AT INDIANA AVE.**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	76 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

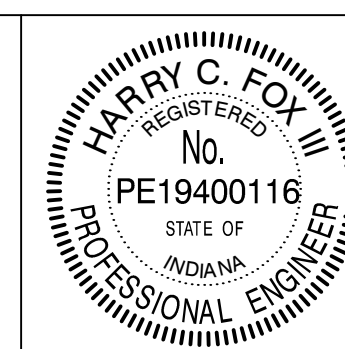
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 PLOTTED BY: HDBR  
 DATE: .....01/29/2016 - 8:08am





- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (17) Curb, Concrete
  - (26) Sodding
  - (K) Widening with HMA, TYPE "D"
  - (M) Milling, Asphalt, 1.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
  - (S) Sawcut
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (Xm) Modified Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/29/2016	Rev 2: Revise Legend



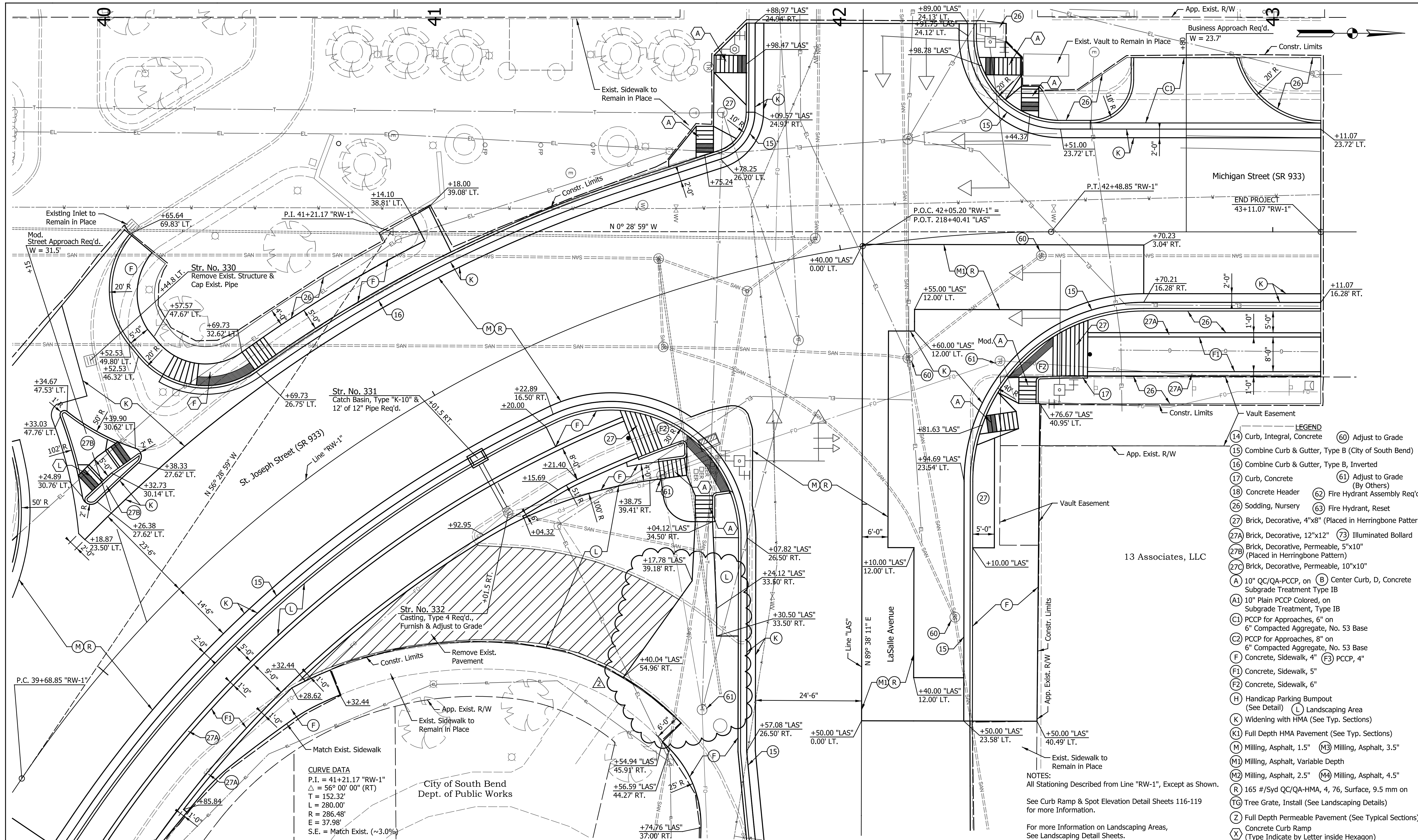
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016
DESIGNED:	HCF III	DRAWN:	BRD
CHECKED:	JG	CHECKED:	JG

CITY OF SOUTH BEND

**INTERSECTION DETAILS  
MICHIGAN ST. AT BROADWAY ST.**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	77 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3259 South Bend 2 Way Conversion\DRAWINGS\CONST DET\North  
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 DIMSCALE: 1"=10'  
 DATE:.....01/07/2016 8:08am



- LEGEND**
- (14) Curb, Integral, Concrete
  - (15) Combine Curb & Gutter, Type B (City of South Bend)
  - (16) Combine Curb & Gutter, Type B, Inverted
  - (17) Curb, Concrete
  - (18) Concrete Header
  - (26) Sodding, Nursery
  - (27) Brick, Decorative, 4"x8" (Placed in Herringbone Pattern)
  - (27A) Brick, Decorative, 12"x12"
  - (27B) Brick, Decorative, Permeable, 5"x10" (Placed in Herringbone Pattern)
  - (27C) Brick, Decorative, Permeable, 10"x10"
  - (A) 10" QC/QA-PCCP, on (B) Center Curb, D, Concrete Subgrade Treatment Type IB
  - (A1) 10" Plain PCCP Colored, on Subgrade Treatment, Type IB
  - (C1) PCCP for Approaches, 6" on 6" Compacted Aggregate, No. 53 Base
  - (C2) PCCP for Approaches, 8" on 6" Compacted Aggregate, No. 53 Base
  - (F) Concrete, Sidewalk, 4"
  - (F1) Concrete, Sidewalk, 5"
  - (F2) Concrete, Sidewalk, 6"
  - (H) Handicap Parking Bumpout (See Detail)
  - (L) Landscaping Area
  - (K) Widening with HMA (See Typ. Sections)
  - (K1) Full Depth HMA Pavement (See Typ. Sections)
  - (M) Milling, Asphalt, 1.5"
  - (M3) Milling, Asphalt, 3.5"
  - (M1) Milling, Asphalt, Variable Depth
  - (M2) Milling, Asphalt, 2.5"
  - (M4) Milling, Asphalt, 4.5"
  - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm on (TG) Tree Grate, Install (See Landscaping Details)
  - (Z) Full Depth Permeable Pavement (See Typical Sections)
  - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
  - (60) Adjust to Grade
  - (61) Adjust to Grade (By Others)
  - (62) Fire Hydrant Assembly Req'd.
  - (63) Fire Hydrant, Reset
  - (73) Illuminated Bollard

**CURVE DATA**  
 P.I. = 41+21.17 "RW-1"  
 $\Delta = 56^\circ 00' 00"$  (RT)  
 T = 152.32'  
 L = 280.00'  
 R = 286.48'  
 E = 37.98'  
 S.E. = Match Exist. (~3.0%)

**NOTES:**  
 All Stationing Described from Line "RW-1", Except as Shown.  
 See Curb Ramp & Spot Elevation Detail Sheets 116-119 for more Information.  
 For more Information on Landscaping Areas, See Landscaping Detail Sheets.

DATE	REVISION
1/29/2016	REV 2: Revised Sidewalk

City of South Bend  
 Dept. of Public Works

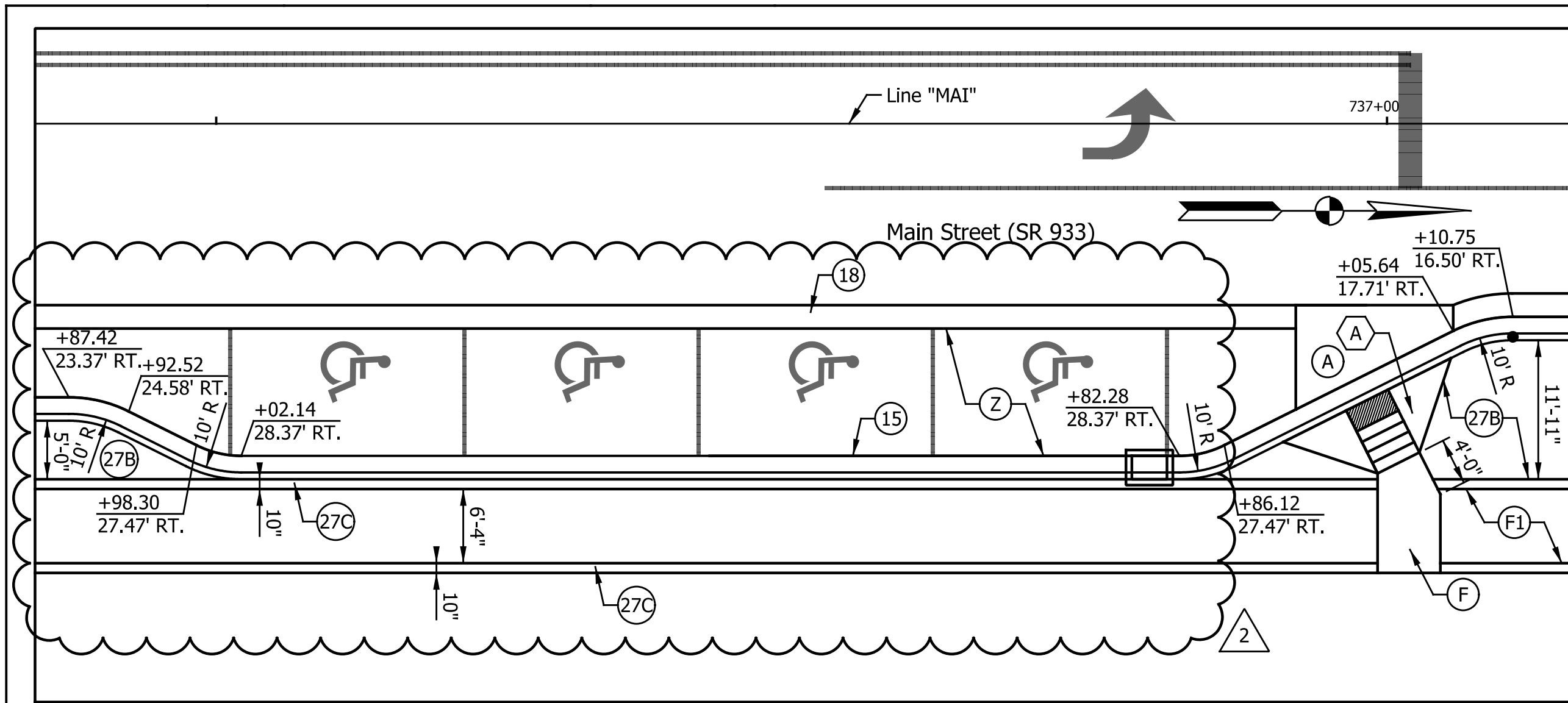
RECOMMENDED FOR APPROVAL	<i>Patrick Woodman</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND

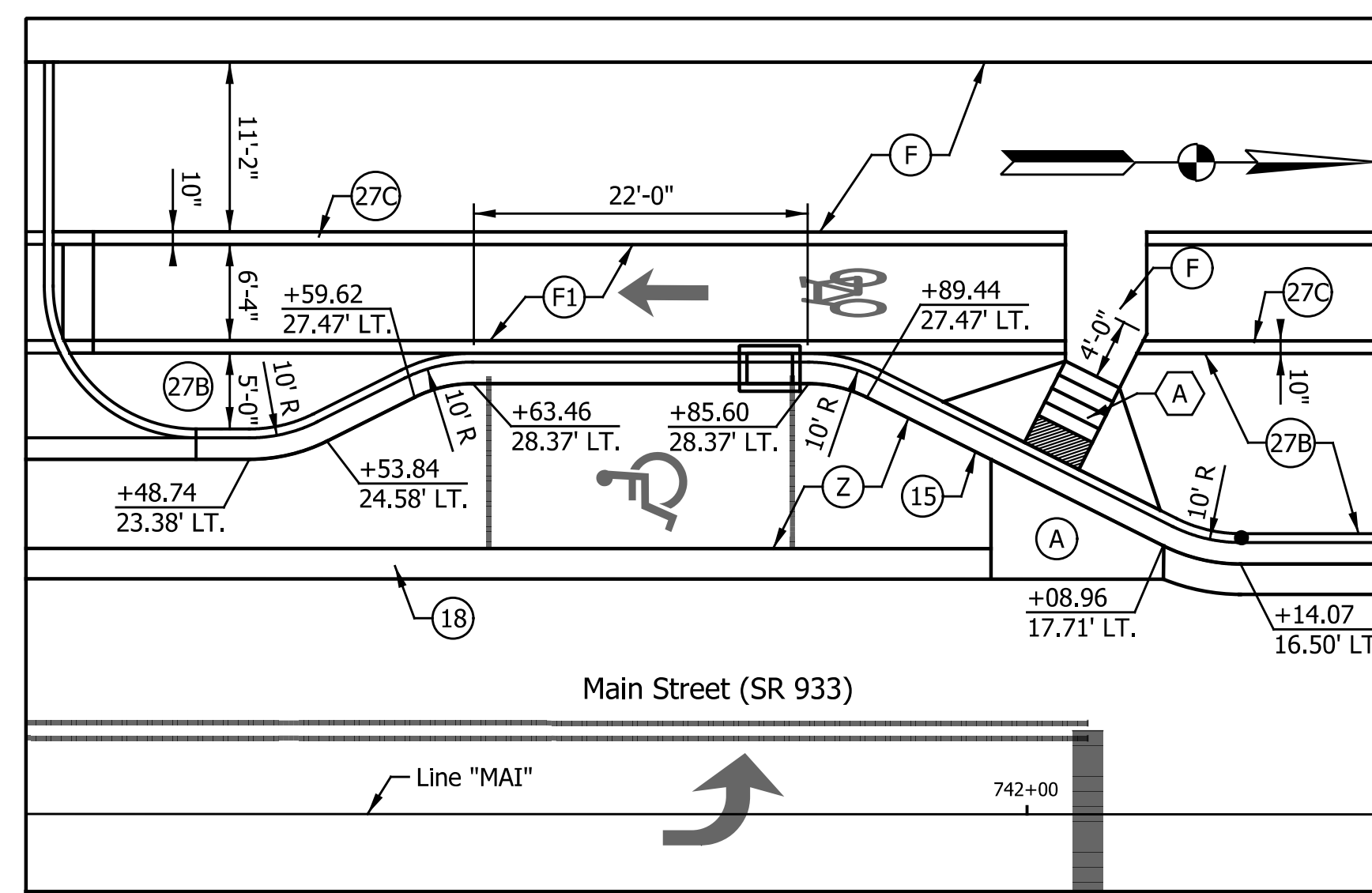
**INTERSECTION DETAILS**  
 ST. JOSEPH ST. AT LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	85 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

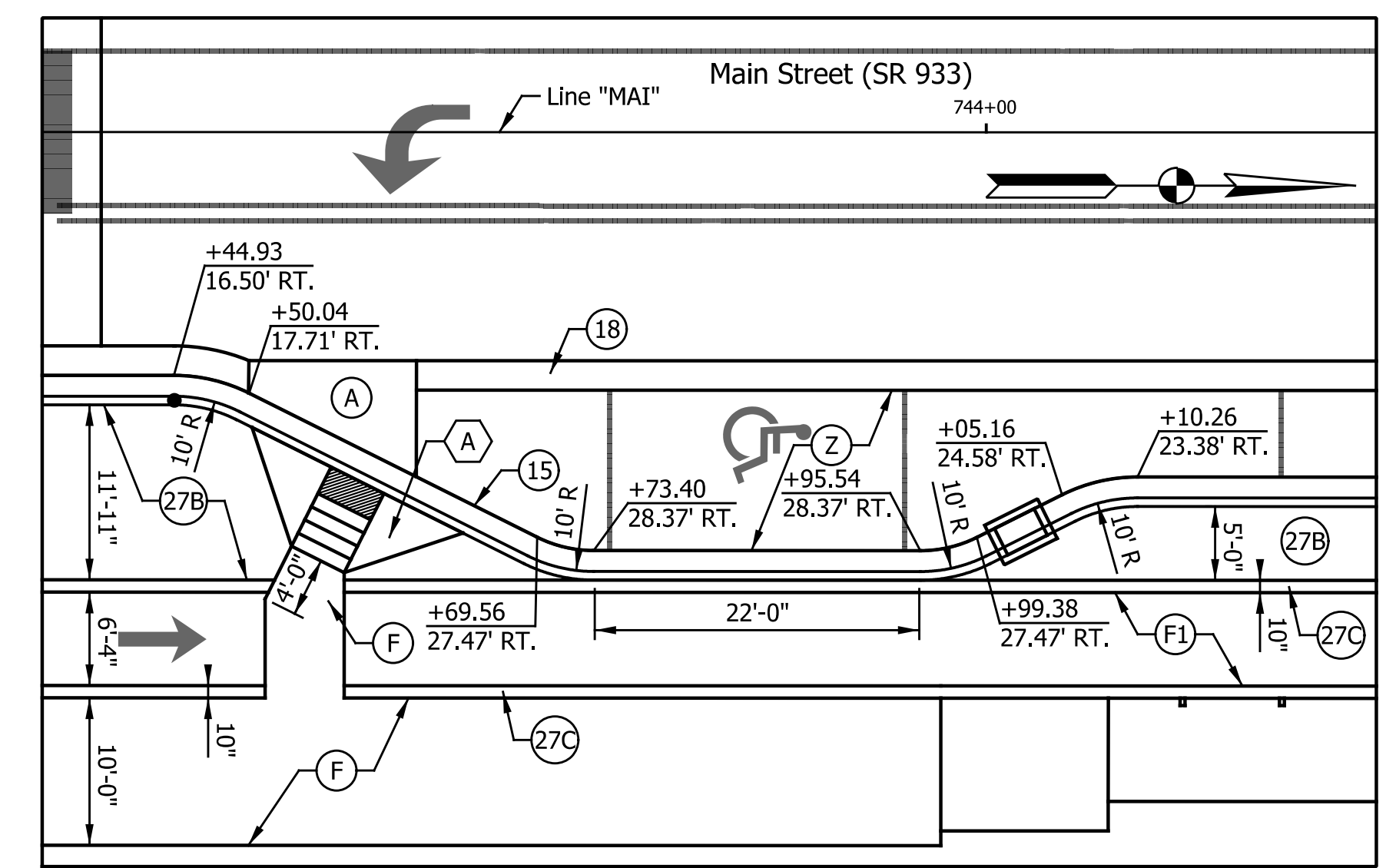
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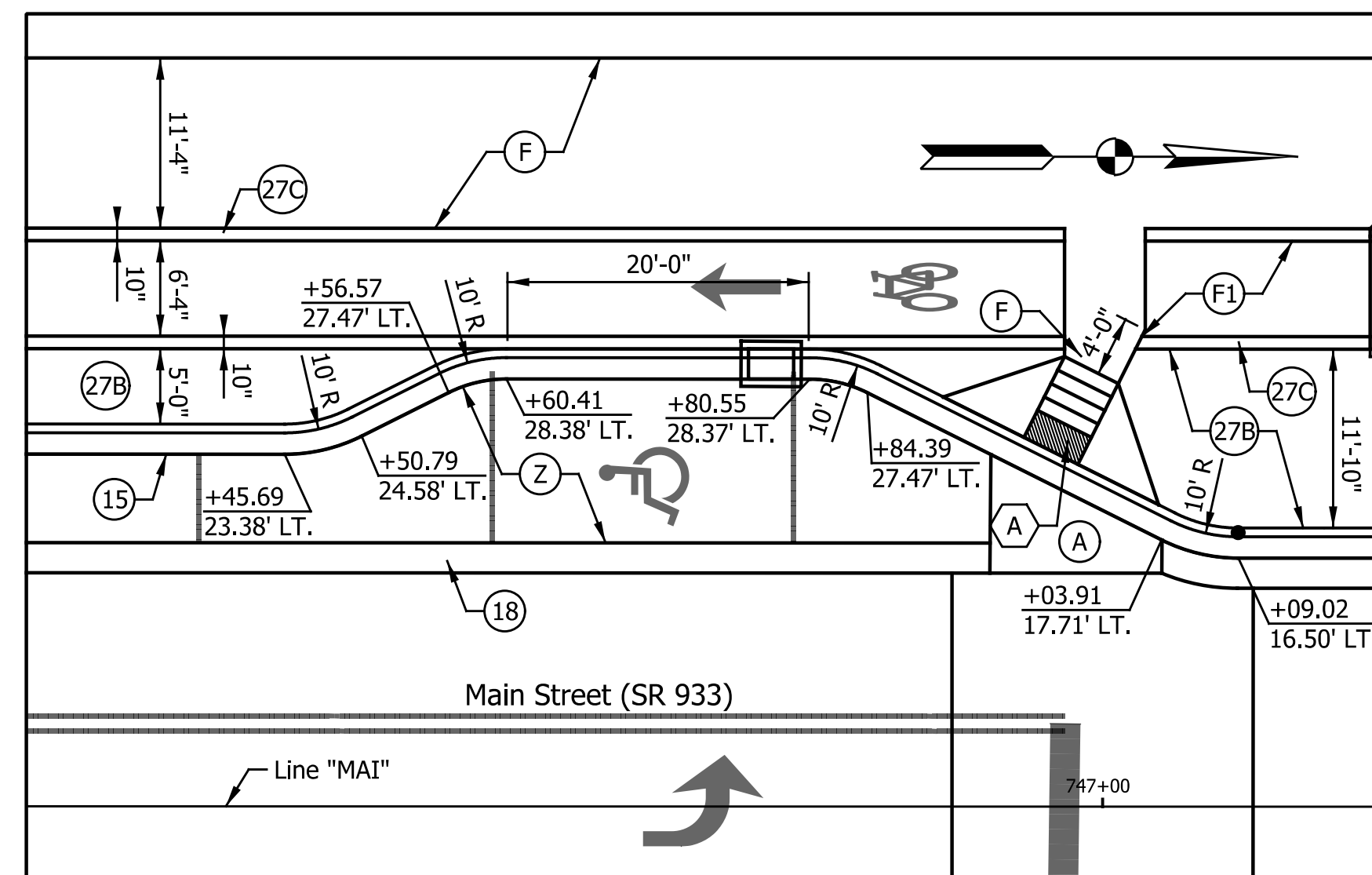
736+61.21 "MAI" RT.



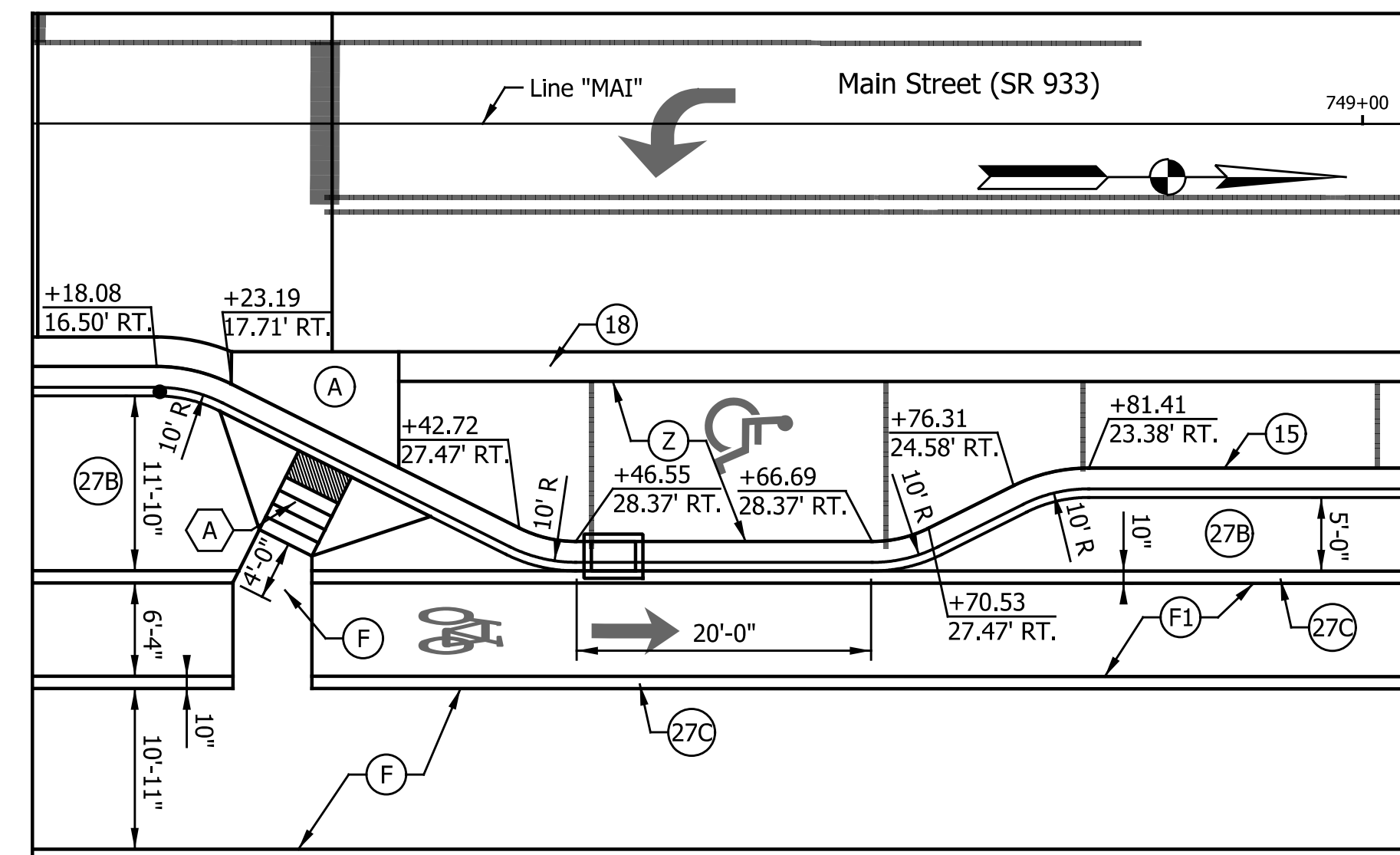
741+74.53 "MAI" LT.



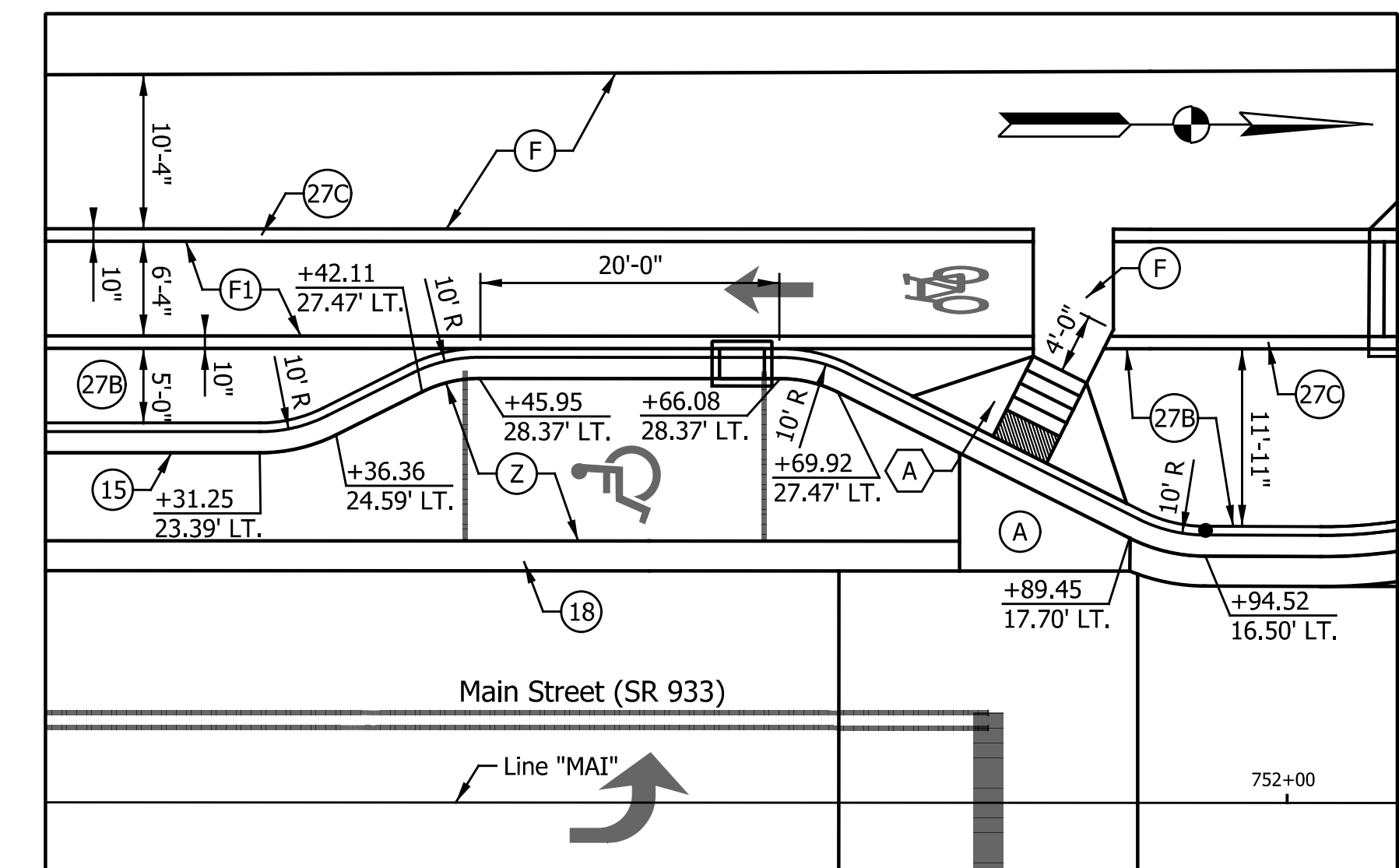
743+84.47 "MAI" RT.



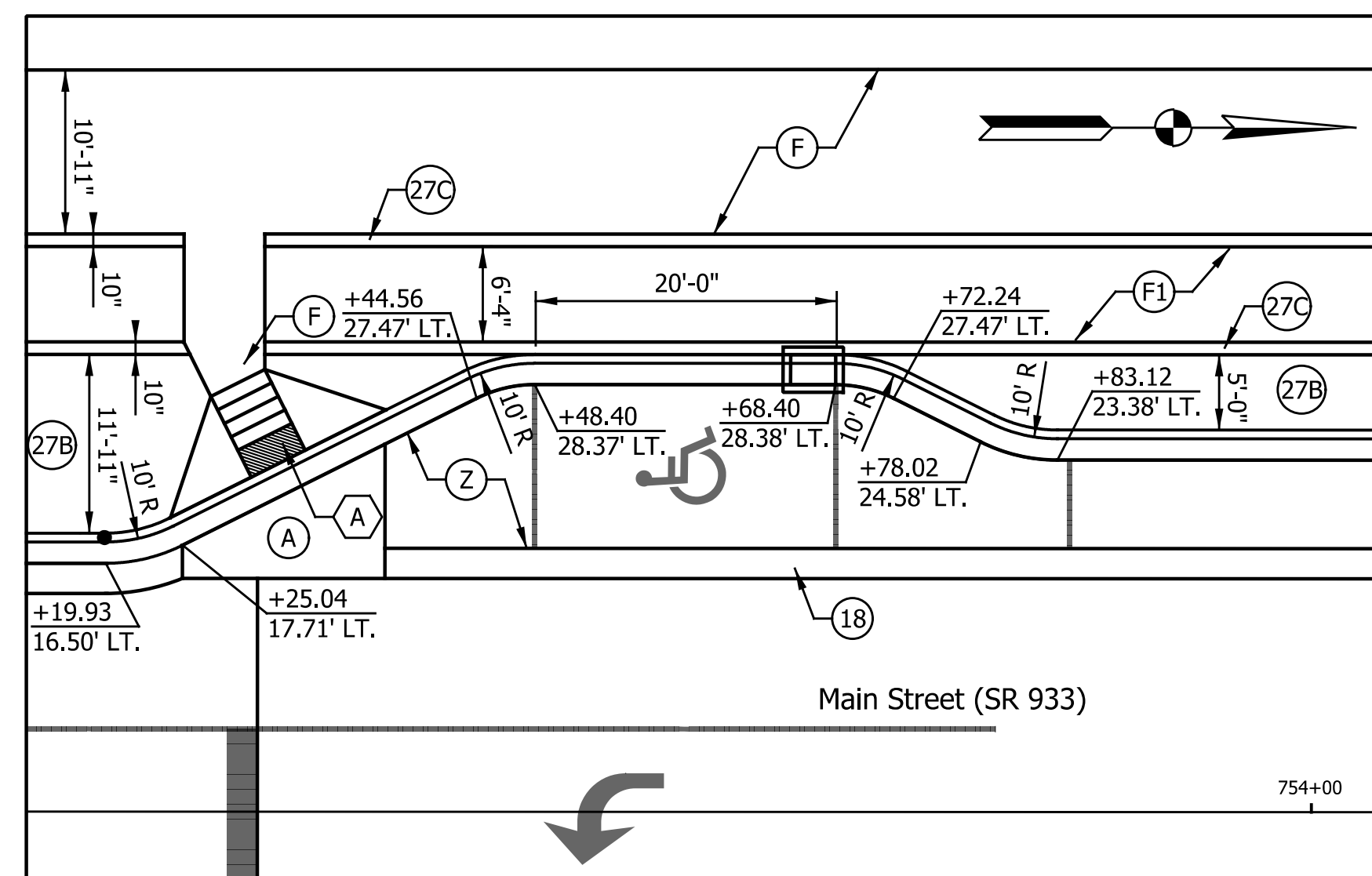
746+69.48 "MAI" LT.



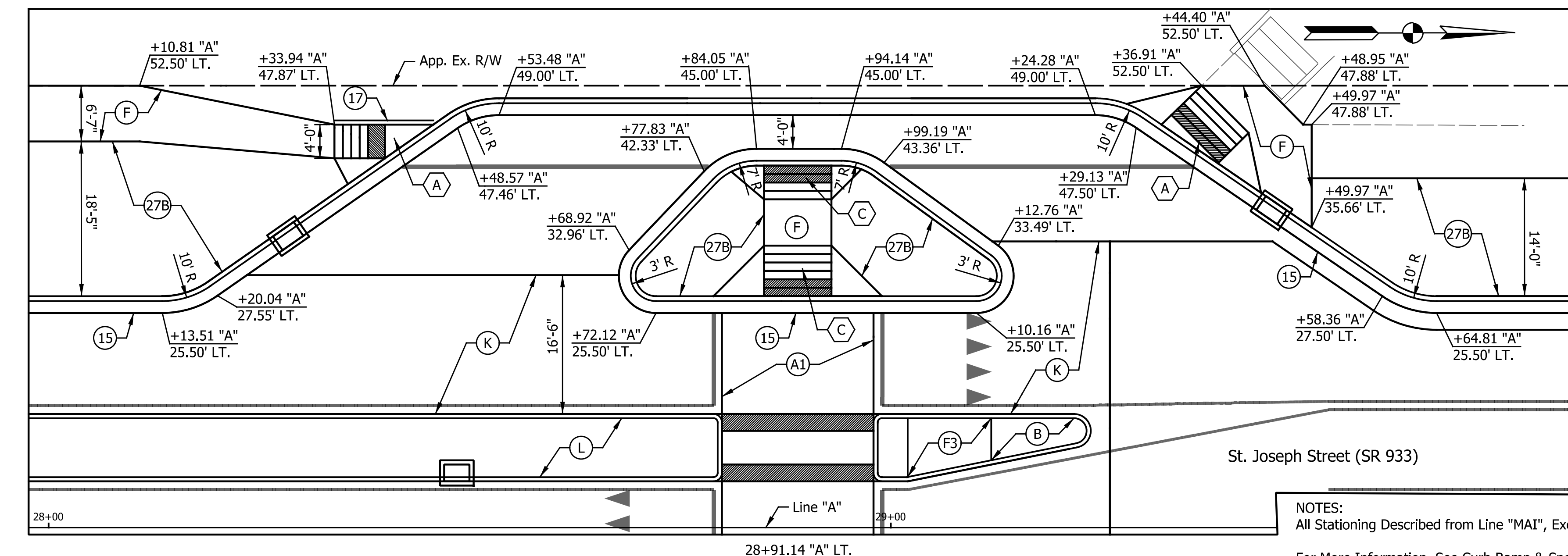
748+57.62 "MAI" RT.



751+55.01 "MAI" LT.



753+58.40 "MAI" LT.



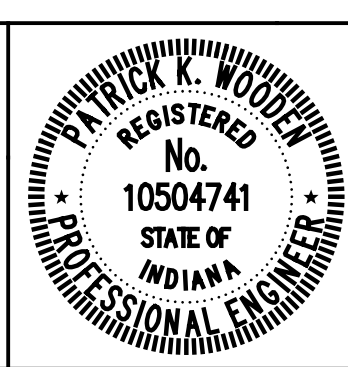
28+91.14 "A" LT.

NOTES:  
All Stationing Described from Line "MAI", Except as Shown.

For More Information, See Curb Ramp & Spot Elevation Details-Handicap Ramps Details

DATE	REVISION
1/29/2016	REV 2: Added Additional Handicap Parking

**LEGEND**  
See Plan Sheets for Material Descriptions



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND  
**PARKING BUMPOUT DETAILS**


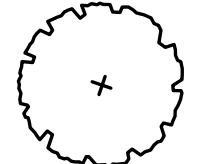


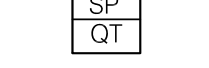

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	90 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

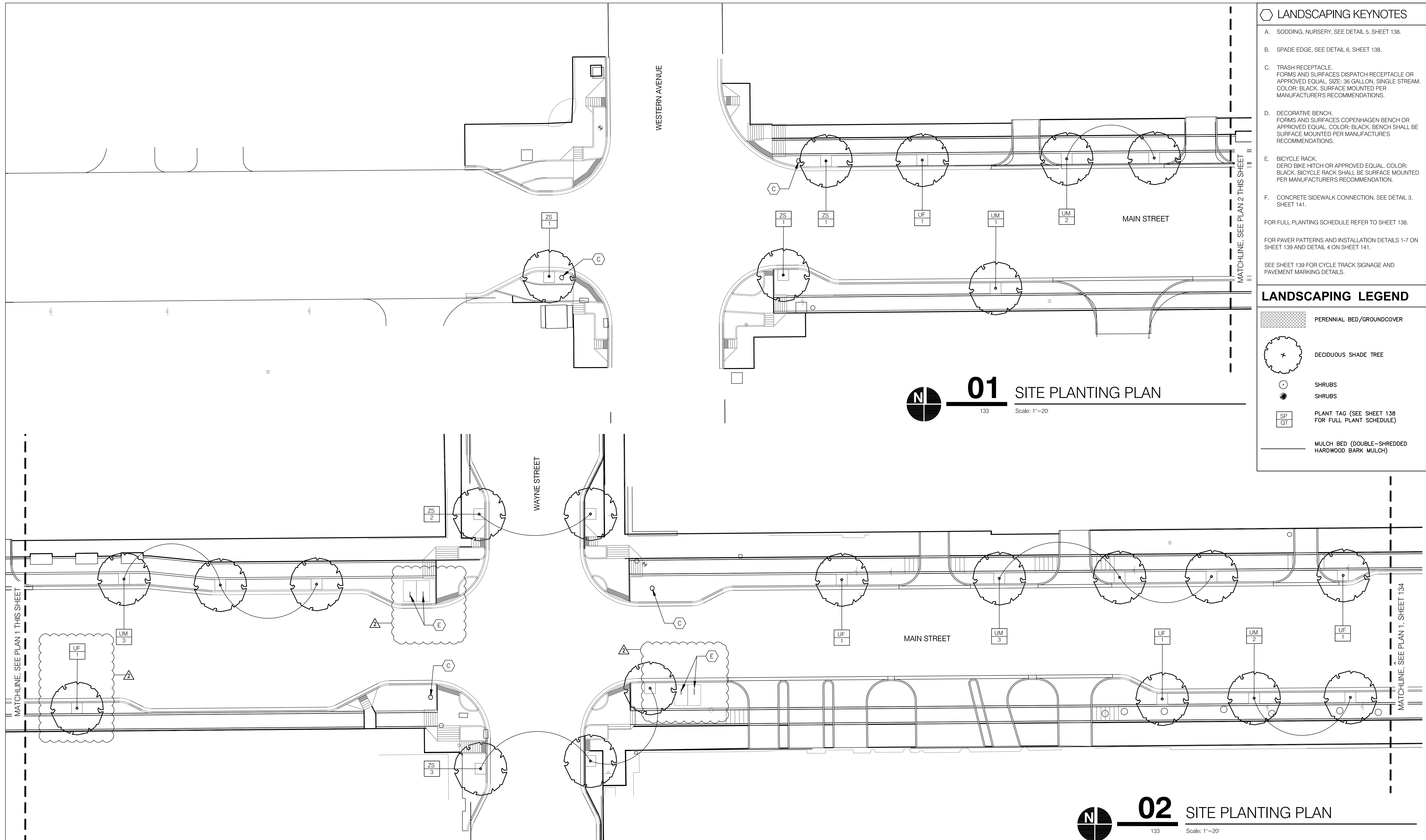
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**LANDSCAPING KEYNOTES**

- A. SODDING, NURSERY. SEE DETAIL 5, SHEET 138.
  - B. SPADE EDGE. SEE DETAIL 6, SHEET 138.
  - C. TRASH RECEPTACLE. FORMS AND SURFACES DISPATCH RECEPTACLE OR APPROVED EQUAL. SIZE: 36 GALLON, SINGLE STREAM. COLOR: BLACK. SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
  - D. DECORATIVE BENCH. FORMS AND SURFACES COPENHAGEN BENCH OR APPROVED EQUAL. COLOR: BLACK. BENCH SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
  - E. BICYCLE RACK. DERO BIKE HITCH OR APPROVED EQUAL. COLOR: BLACK. BICYCLE RACK SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATION.
  - F. CONCRETE SIDEWALK CONNECTION. SEE DETAIL 3, SHEET 141.
- FOR FULL PLANTING SCHEDULE REFER TO SHEET 138.
- FOR PAVER PATTERNS AND INSTALLATION DETAILS 1-7 ON SHEET 139 AND DETAIL 4 ON SHEET 141.
- SEE SHEET 139 FOR CYCLE TRACK SIGNAGE AND PAVEMENT MARKING DETAILS.

**LANDSCAPING LEGEND**

-  PERENNIAL BED/GROUNDCOVER
-  DECIDUOUS SHADE TREE
-  SHRUBS
-  SHRUBS
-  PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)
-  MULCH BED (DOUBLE-SHREDDED HARDWOOD BARK MULCH)



**01** SITE PLANTING PLAN  
133 Scale: 1"=20'

**02** SITE PLANTING PLAN  
133 Scale: 1"=20'

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 2

REGISTERED LANDSCAPE ARCHITECT  
 CATHERINE E. CLARK  
 No. LA20700081  
 STATE OF INDIANA

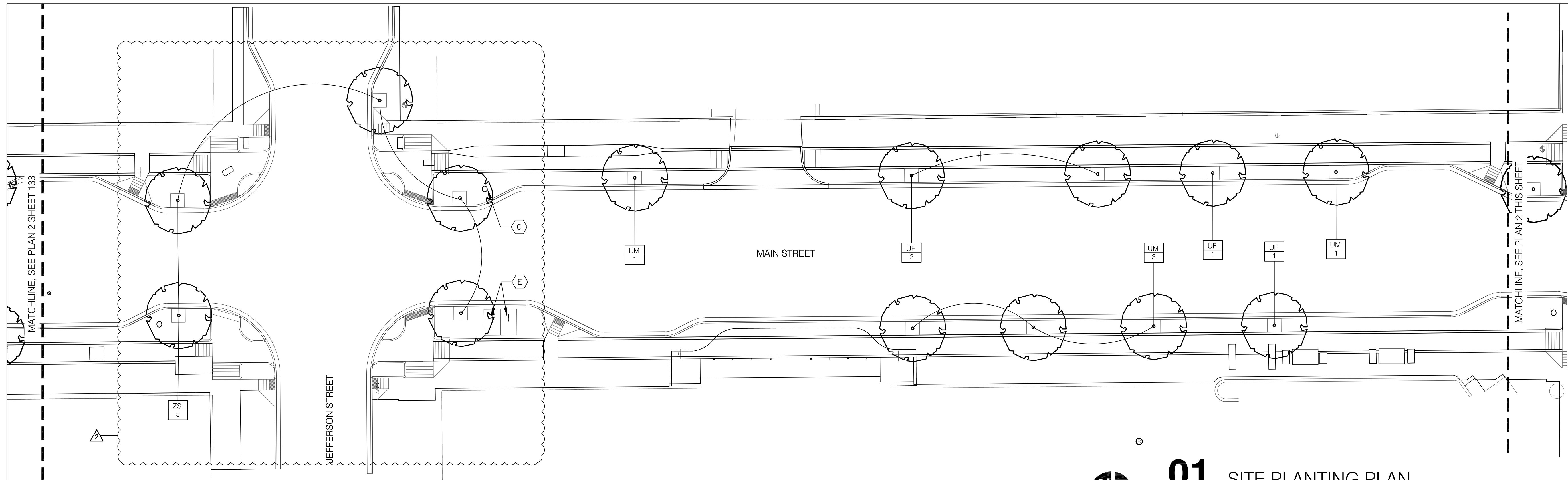
RECOMMENDED FOR APPROVAL	<i>Catherine Clark</i>	01/07/2016
DESIGNED:	CEC	DATE
DRAWN:	CEC	
CHECKED:	CEC	
CHECKED:	CEC	

CITY OF SOUTH BEND  
**PLANTING PLANS**  
**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
N/A	133 of 246
CONTRACT	PROJECT
N/A	115-019

SPLDONSSE SPENTISES

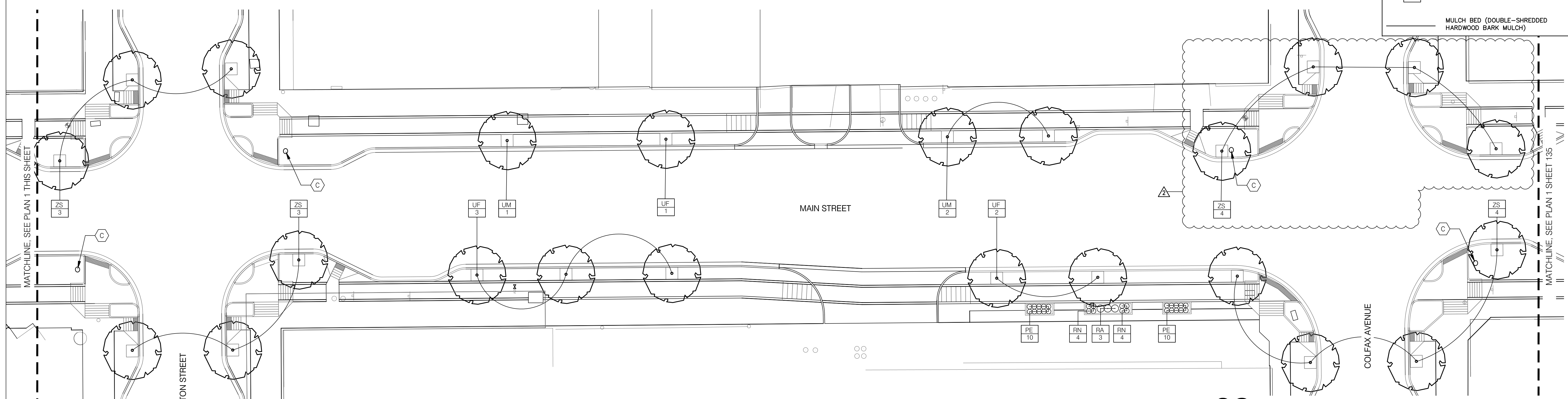
\$USER \$DATES \$TIMES \$FILESAS



**01** SITE PLANTING PLAN  
 134 Scale: 1"=20'

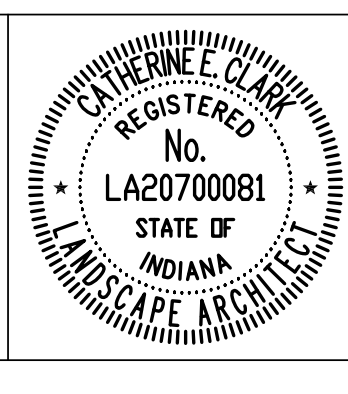
- LANDSCAPING KEYNOTES**
- A. SODDING, NURSERY. SEE DETAIL 5, SHEET 138.
  - B. SPADE EDGE. SEE DETAIL 6, SHEET 138.
  - C. TRASH RECEPTACLE. FORMS AND SURFACES DISPATCH RECEPTACLE OR APPROVED EQUAL. SIZE: 36 GALLON, SINGLE STREAM. COLOR: BLACK. SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
  - D. DECORATIVE BENCH. FORMS AND SURFACES COPENHAGEN BENCH OR APPROVED EQUAL. COLOR: BLACK. BENCH SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
  - E. BICYCLE RACK. DERO BIKE HITCH OR APPROVED EQUAL. COLOR: BLACK. BICYCLE RACK SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATION.
  - F. CONCRETE SIDEWALK CONNECTION. SEE DETAIL 3, SHEET 141.
- FOR FULL PLANTING SCHEDULE REFER TO SHEET 138.
- FOR PAVER PATTERNS AND INSTALLATION DETAILS 1-7 ON SHEET 139 AND DETAIL 4 ON SHEET 141.
- SEE SHEET 139 FOR CYCLE TRACK SIGNAGE AND PAVEMENT MARKING DETAILS.

- LANDSCAPING LEGEND**
- PERENNIAL BED/GROUNDCOVER
  - DECIDUOUS SHADE TREE
  - SHRUBS
  - SHRUBS
  - PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)
  - MULCH BED (DOUBLE-SHREDED HARDWOOD BARK MULCH)



**02** SITE PLANTING PLAN  
 134 Scale: 1"=20'

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 1 AND 2

RECOMMENDED FOR APPROVAL	<i>Catherine Clark</i>	01/07/2016
DESIGNED:	CEC	DATE
DRAWN:	CEC	
CHECKED:	CEC	
CHECKED:	CEC	

CITY OF SOUTH BEND

**PLANTING PLANS**

**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
N/A	134 of 246
CONTRACT	PROJECT
N/A	115-019

SPLODONS/SPENTELS

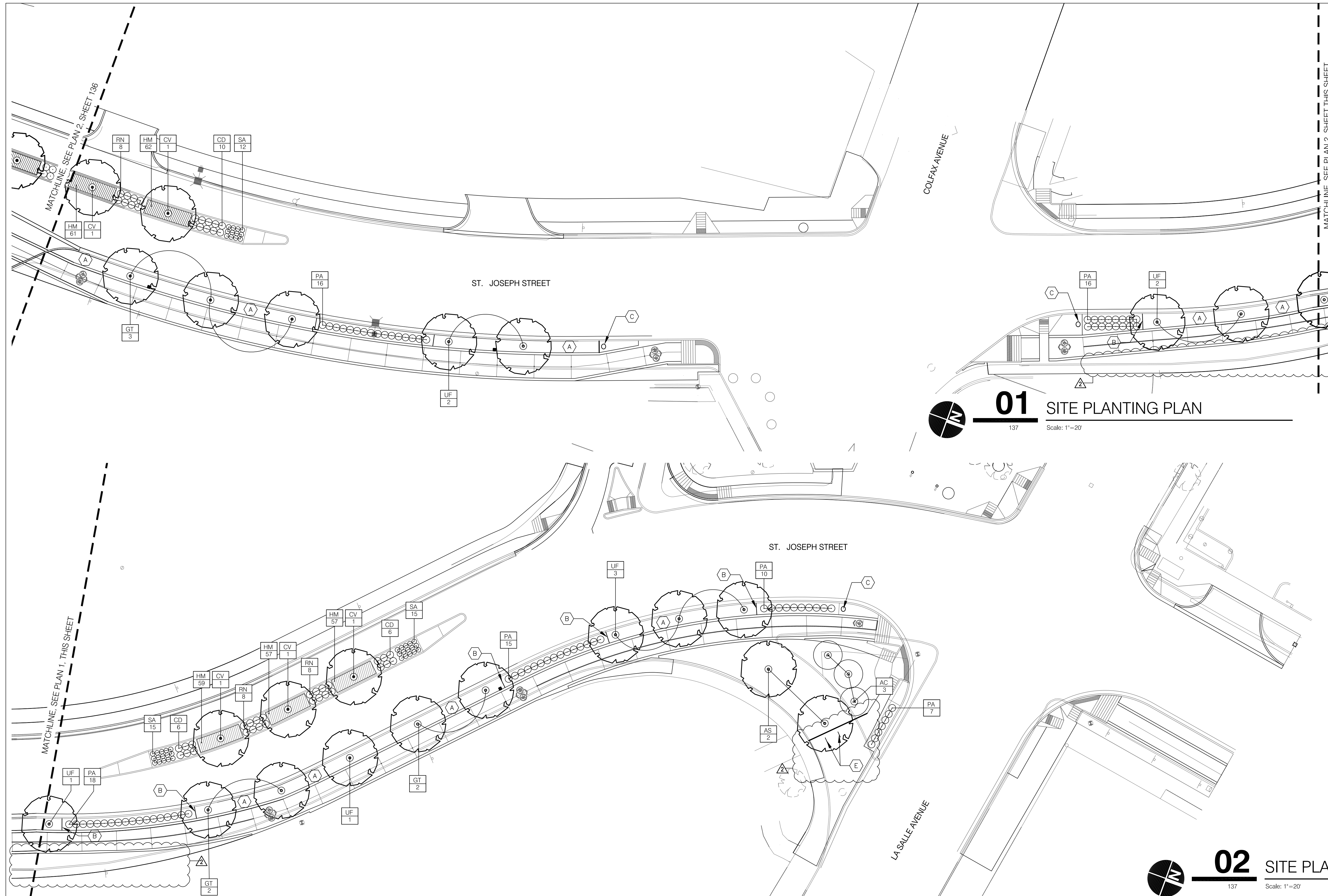
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**LANDSCAPING KEYNOTES**

- A. SODDING, NURSERY. SEE DETAIL 5, SHEET 138.
  - B. SPADE EDGE. SEE DETAIL 6, SHEET 138.
  - C. TRASH RECEPTACLE. FORMS AND SURFACES DISPATCH RECEPTACLE OR APPROVED EQUAL. SIZE: 36 GALLON, SINGLE STREAM. COLOR: BLACK. SURFACE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
  - D. DECORATIVE BENCH. FORMS AND SURFACES COPENHAGEN BENCH OR APPROVED EQUAL. COLOR: BLACK. BENCH SHALL BE SURFACE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
  - E. BICYCLE RACK. DERO BIKE HITCH OR APPROVED EQUAL. COLOR: BLACK. BICYCLE RACK SHALL BE SURFACE MOUNTED PER MANUFACTURERS RECOMMENDATION.
  - F. CONCRETE SIDEWALK CONNECTION. SEE DETAIL 3, SHEET 141.
- FOR FULL PLANTING SCHEDULE REFER TO SHEET 138.
- FOR PAVER PATTERNS AND INSTALLATION DETAILS 1-7 ON SHEET 139 AND DETAIL 4 ON SHEET 141.
- SEE SHEET 139 FOR CYCLE TRACK SIGNAGE AND PAVEMENT MARKING DETAILS.

**LANDSCAPING LEGEND**

- PERENNIAL BED/GROUNDCOVER
- DECIDUOUS SHADE TREE
- SHRUBS
- SHRUBS
- PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)
- MULCH BED (DOUBLE-SHREDDED HARDWOOD BARK MULCH)



**01** SITE PLANTING PLAN  
137 Scale: 1"=20'

**02** SITE PLANTING PLAN  
137 Scale: 1"=20'

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 1 AND 2

REGISTERED LANDSCAPE ARCHITECT  
 CATHERINE CLARK  
 No. LA20700081  
 STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Catherine Clark* DESIGN ENGINEER DATE: 01/07/2016

DESIGNED: CEC DRAWN: CEC  
 CHECKED: CEC CHECKED: CEC

CITY OF SOUTH BEND
PLANTING PLANS
ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
N/A	137 of 246
CONTRACT	PROJECT
N/A	115-019

SPLOONSS SPENTISES

\$USER \$DATES \$TIMES \$FILES

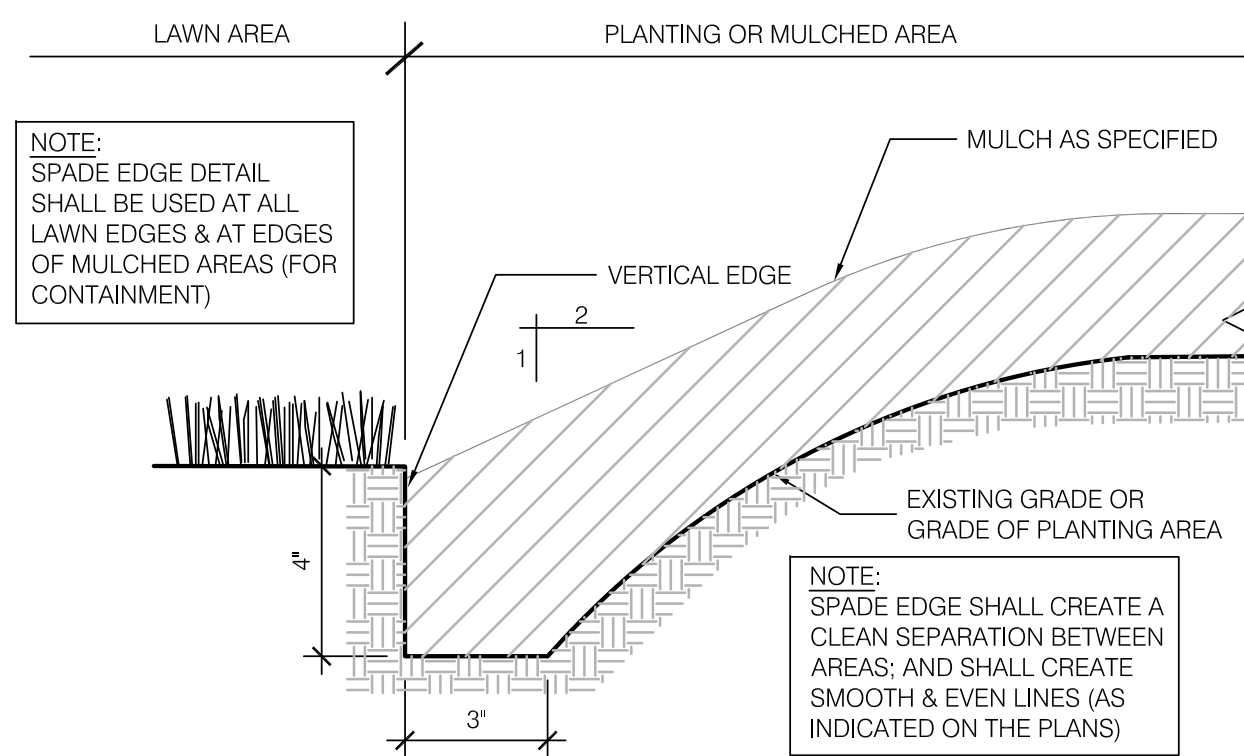
PLANT MATERIALS SCHEDULE							PAY ITEM	
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	COND.	SPACING	NOTES	PAY ITEM
<b>DECIDUOUS TREES:</b>								
3	AC	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2" Cal.	N/A	As Shown	MULTI-TRUNK, DENSE BRANCHING, DARK GREEN FOLIAGE	ORNAMENTAL TREE 2" CAL.
2	AS	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
11	CV	Crataegus Viridis 'Winter King'	Winter King Hawthorn	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
10	GT	Gleditsia triacanthos 'Impcole'	Imperial Honeylocust	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
32	UF	Ulmus Frontier'	Frontier Elm	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
24	UM	Ulmus Morton 'Accolade'	Accolade Elm	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
27	ZS	Zelkova Serrata 'Musashino'	Musashino Columnar Zelkova	2" Cal.	N/A	As Shown	STRAIGHT TRUNK, CENTRAL LEADER, DENSE BRANCHING, DARK GREEN FOLIAGE	OVER STORY TREE 2" CAL.
<b>SHRUBS AND GRASSES:</b>								
82	CD	Caryopteris x clandonensis 'Blue Mist'	Blue Mist Spirea	3 Gal.	Cont.	3' O.C.		SHRUB, NO. 3
126	PA	Pennisetum alopecuroides	Fountain Grass	1 Gal.	Cont.	3' O.C.		ORNAMENTAL GRASS, NO. 1
20	PE	Pennisetum alopecuroides 'Hamelri'	Dwarf Fountain Grass	1 Gal.	Cont.	2' O.C.		ORNAMENTAL GRASS, NO. 1
97	RA	Rhus aromatica 'Gro-Lo'	Gro- Lo Sumac	3 Gal.	Cont.	3' O.C.		SHRUB, NO. 3
50	RN	Rosa 'Nearly Wild'	Nearly Wild Rose	3 Gal.	Cont.	3' O.C.		SHRUB, NO. 3
38	SJ	Spirea japonica 'Neon Flash'	Neon Flash Spirea	3 Gal.	Cont.	3' O.C.		SHRUB, NO. 3
<b>PERENNIALS:</b>								
628	HM	Hemerocallis 'Happy Returns'	Happy Returns Daylily	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
194	RF	Rudbeckia fulgida 'Goldstrum'	Brown Eyed Susan	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
139	SA	Sedum 'Autumn Fire'	Autumn Fire Sedum	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
191	SS	Schizachyrium scoparium	Little Bluestem	Plug	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PLUG

**GENERAL PLANTING NOTES:**

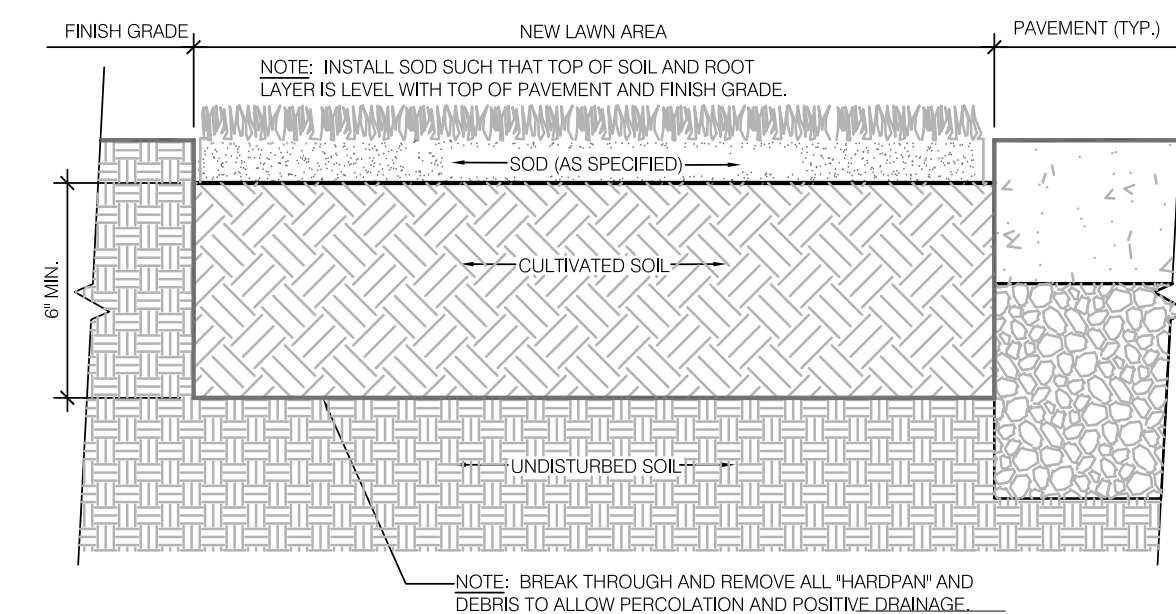
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
- A MINIMUM OF 4" OF TOPSOIL SHALL BE PLACED ON ALL AREAS TO BE SEEDDED AND 12" FOR PLANTING BEDS. USE SUITABLE TOPSOIL FROM STOCKPILED SITE STRIPPING. TOPSOIL SHALL BE FREE FROM SUBSOIL, VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL, AS DETERMINED BY SOILS ENGINEER, FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
- IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
- ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURERS RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
- FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE.
- NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTORS OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
- ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
- PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION AND AS DIRECTED BY OWNER.
- ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT END OF THIS PERIOD, PLANT MATERIAL, TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
- SHRUB AND GROUNDCOVER MASS QUANTITIES ARE SHOWN ON PLANS. UNDERPLANT ALL TREES WITH THE ADJACENT SHRUB AND/OR GROUNDCOVER AS INDICATED BY THE PLANS. PLANTS SHALL BE INSTALLED WITH TRIANGULAR SPACING. PLANT GROUNDCOVERS TO WITHIN 36" OF TREE TRUNK OR 12" OF SHRUBS STEMS.
- ALL ROCKS AND DEBRIS ONE INCH (1") AND LARGER SHALL BE REMOVED FROM PLANTING AREAS TO A DEPTH OF 1'-0" AND THEN FROM THE SITE TO A LEGAL SITE OF DISPOSAL. WHERE GRASS IS TO BE PLANTED, ALL ROCKS AND DEBRIS ONE HALF INCH (1/2") AND LARGER SHALL BE REMOVED.

**GENERAL LAWN NOTES:**

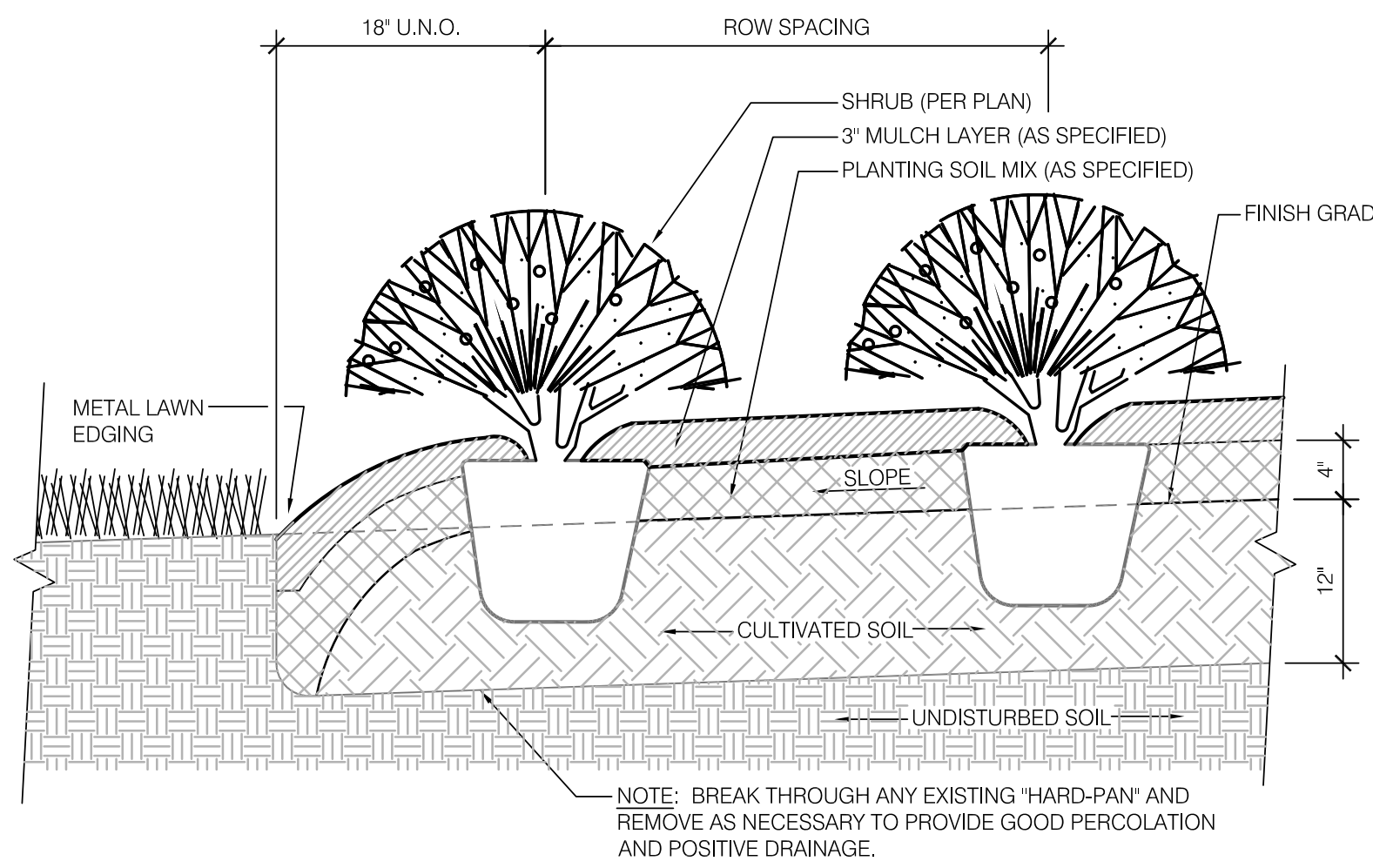
- ALL DISTURBED LAWN AREAS SHALL BE HYDRO-SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
- LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNUNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY HYDRO-SEED OR SOD WORK.
- ALL LAWN AND SOD IS TO BE A BLUEGRASS BLEND AS FOLLOWS: HYDRO-SEED AND SOD AREAS ARE TO HAVE 0% NOXIOUS WEED AND FREE OF DISEASE. THE FOLLOWING BLEND OF TURFGRASS SHALL BE AS FOLLOWS:
  - FULL SUN
    - KENTUCKY BLUEGRASS (2 VARIETIES): 50%
    - PERENNIAL RYEGRASS (2 VARIETIES): 50%
  - PARTIAL SHADE
    - KENTUCKY BLUEGRASS (1 VARIETIES): 10%
    - PERENNIAL RYEGRASS (1 VARIETIES): 35%
    - RED FESCUE GRASS (2 VARIETIES): 55%
- PROTECT LAWN SEEDED AREAS WITH STRAW MULCH. SPREAD MULCH UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1 1/2 INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.
- LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SOIL OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SOIL. ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS.



**06 SPADE EDGE DETAIL**  
138 NOT TO SCALE



**05 SOD PLANTING DETAIL**  
138 NOT TO SCALE

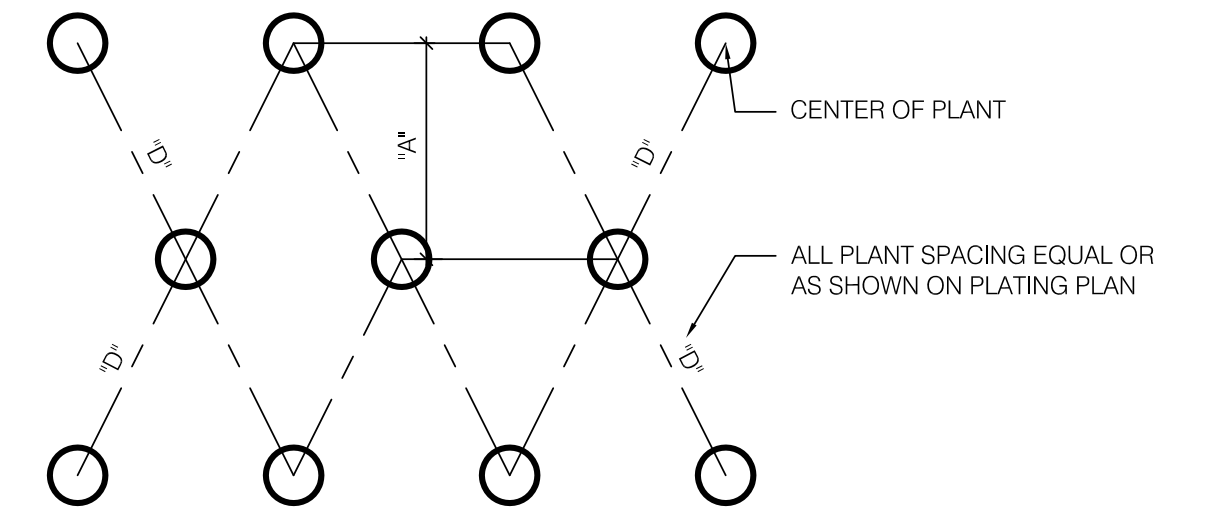


**PLANTING PROCEDURE**

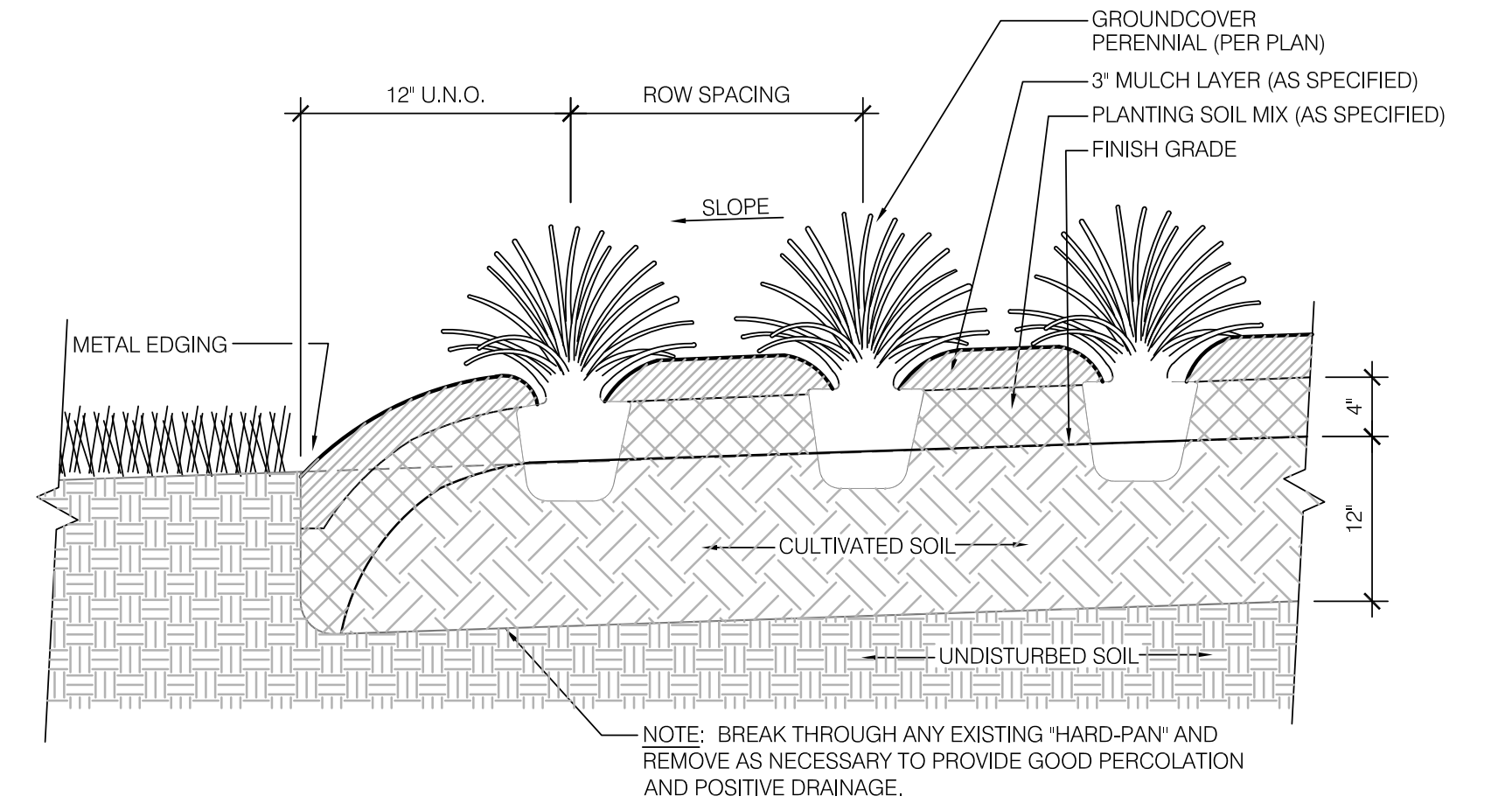
- LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
- ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
- INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

**04 SHRUB PLANTING DETAIL**  
138 NOT TO SCALE

'D'	'A'	NO. OF PLANTS/SF
6" O.C.	5.2'	4.61
8" O.C.	6.93'	2.6
10" O.C.	8.66'	1.66
12" O.C.	10.4'	1.15
15" O.C.	13.0'	.738
18" O.C.	15.6'	.512
24" O.C.	20.8'	.29
30" O.C.	26.0'	.185
36" O.C.	30.0'	.128



**03 PLANT SPACING DETAIL**  
138 NOT TO SCALE

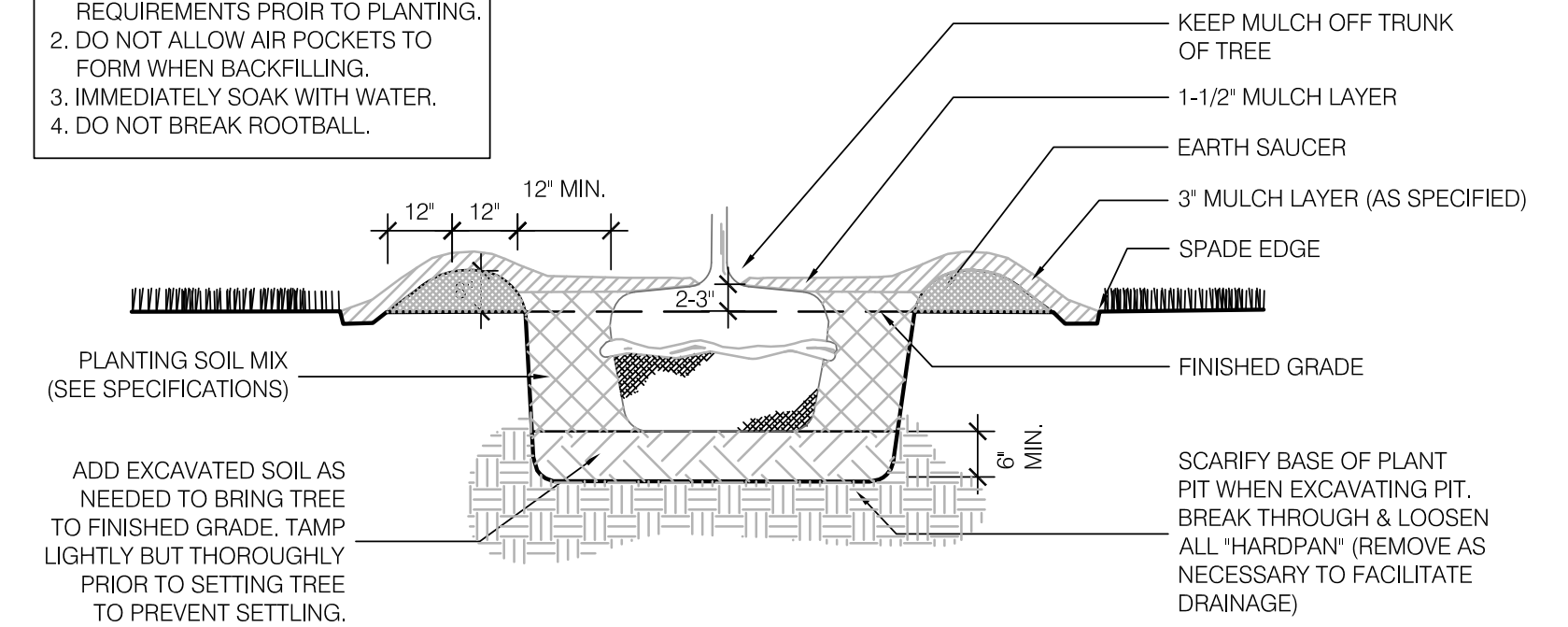


**PLANTING PROCEDURE**

- LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
- ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
- INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

**02 GROUNDCOVER DETAIL**  
138 NOT TO SCALE

- GENERAL NOTES:**
- SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS PRIOR TO PLANTING.
  - DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
  - IMMEDIATELY SOAK WITH WATER.
  - DO NOT BREAK ROOTBALL.

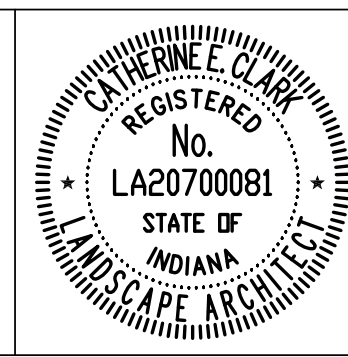


**PLANTING PROCEDURE**

- EXCAVATE ROOTBALL PIT
- ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
- BACKFILL WITH SOIL MIX & WATER IN
- COMPLETE BACKFILLING, CONSTRUCT SAUCER, SPADE EDGE & ADD MULCH
- STAKE & GUY SECURELY (AS REQUIRED)

**01 ROOTBALL PLANTING DETAIL**  
138 NOT TO SCALE

DATE	REVISION
1/15/16	REV 1: MODIFY PLANT SCHEDULE
1/29/16	REV 2: MODIFY PLANT SCHEDULE



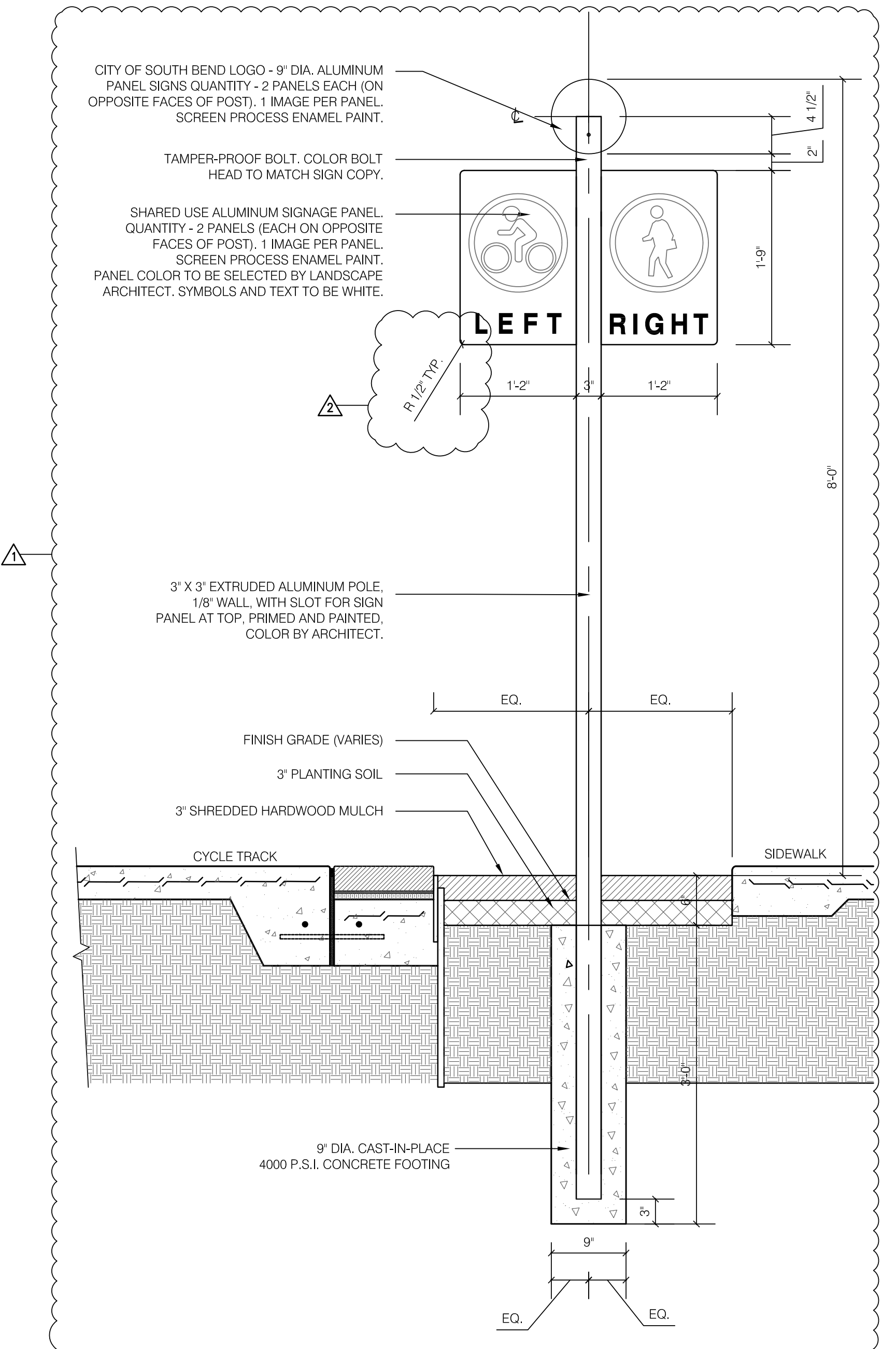
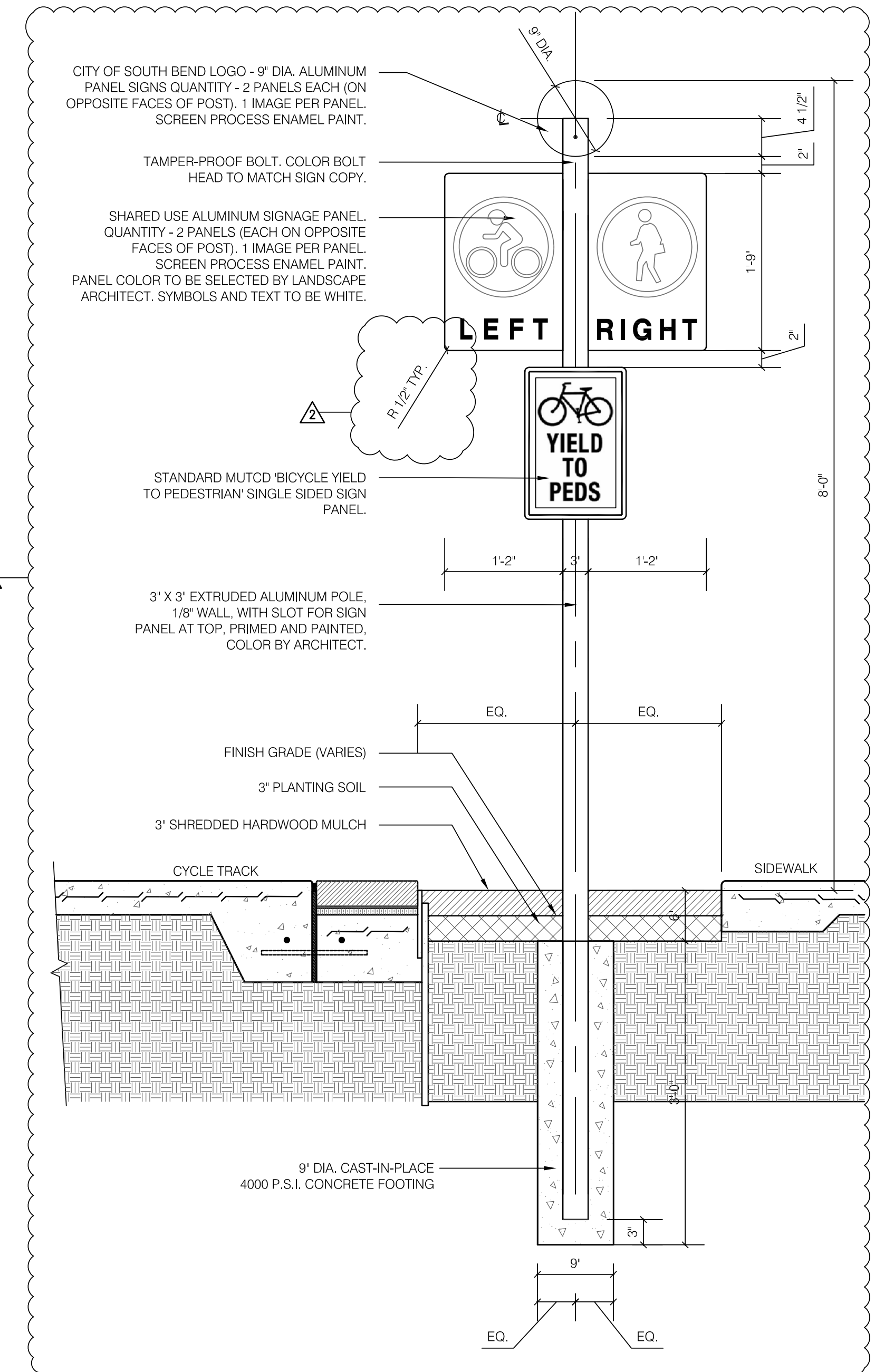
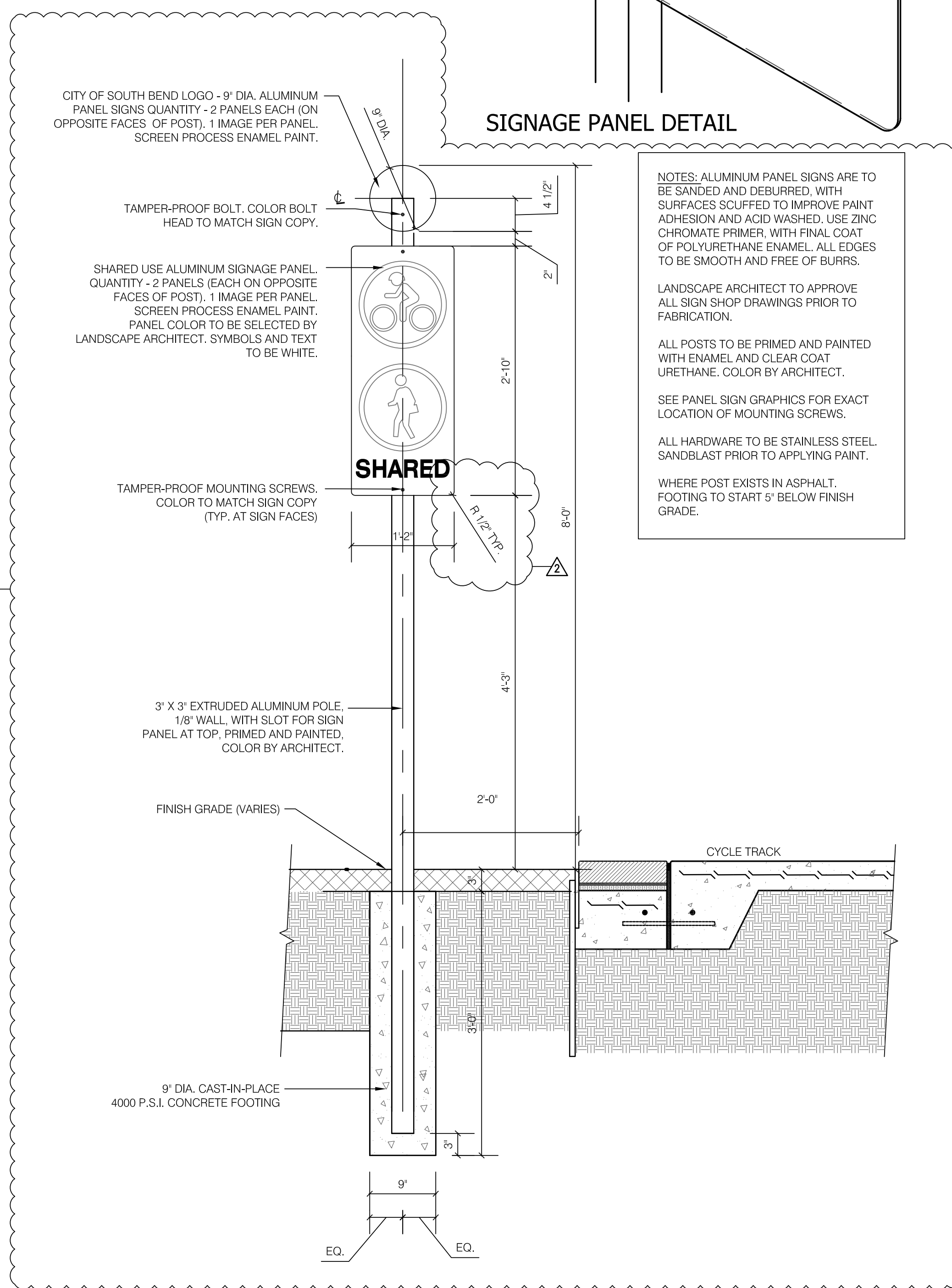
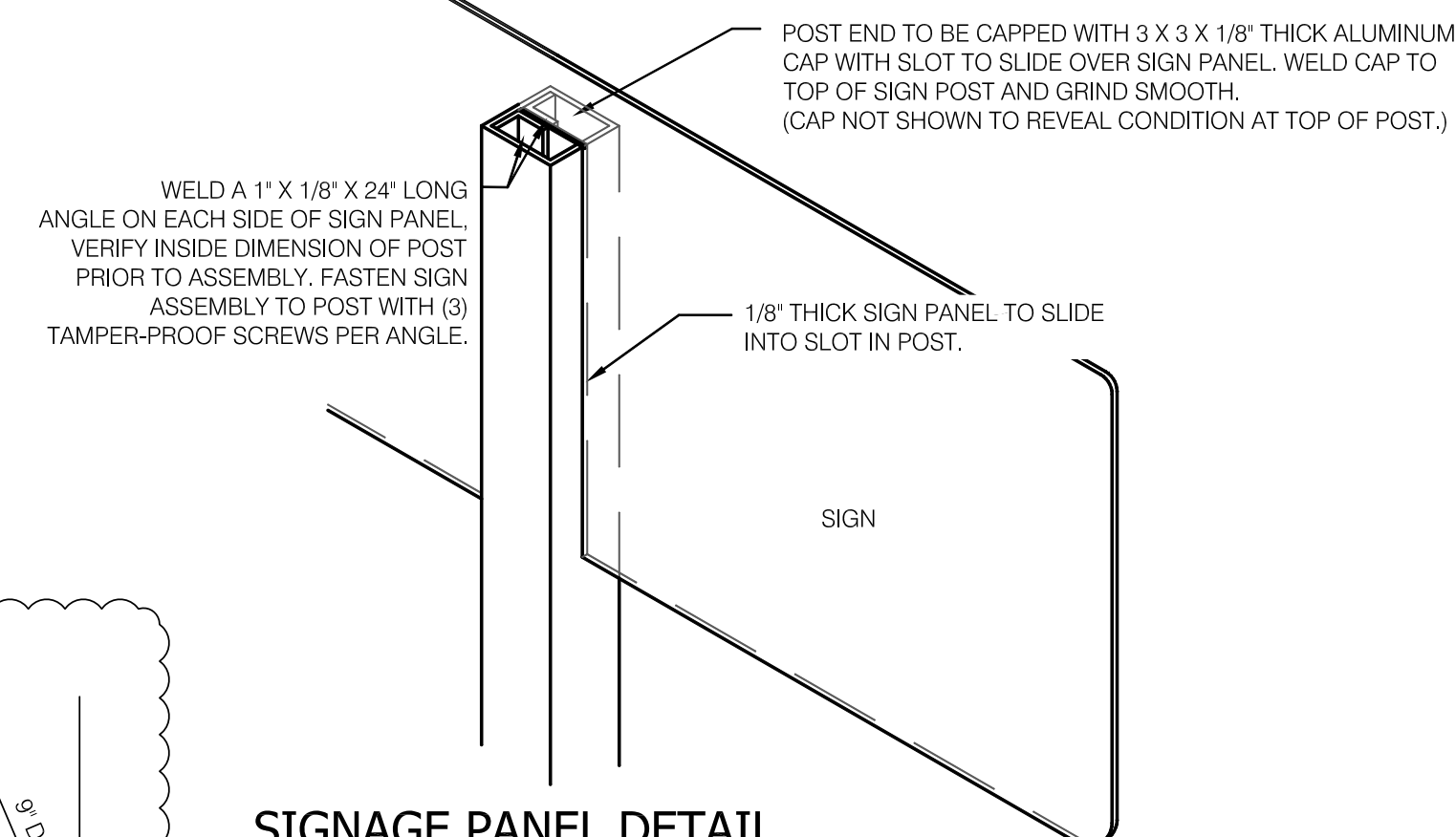
RECOMMENDED FOR APPROVAL	<i>Catherine Clark</i>	01/07/2016	DATE
DESIGNED:	CEC	DRAWN:	CEC
CHECKED:	CEC	CHECKED:	CEC

CITY OF SOUTH BEND

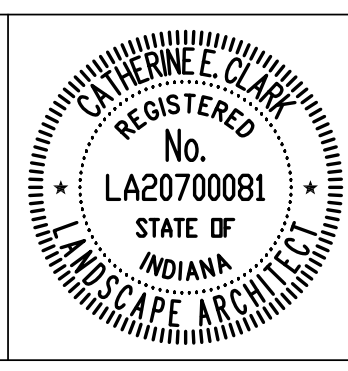
PLANTING PLANS  
PLANTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	138 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

SPENTON'S SPENTON'S



DATE	REVISION
1/15/16	REV 1: MODIFIED DETAIL 1, 2 AND 3
1/29/16	REV 2: MODIFIED DETAIL 1, 2 AND 3



RECOMMENDED FOR APPROVAL	<i>Catherine Clark</i>	01/07/2016	DATE
DESIGNED:	CEC	DRAWN:	CEC
CHECKED:	CEC	CHECKED:	CEC

CITY OF SOUTH BEND  
 MISCELLANEOUS DETAILS  
 SIGNAGE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
N/A	140 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

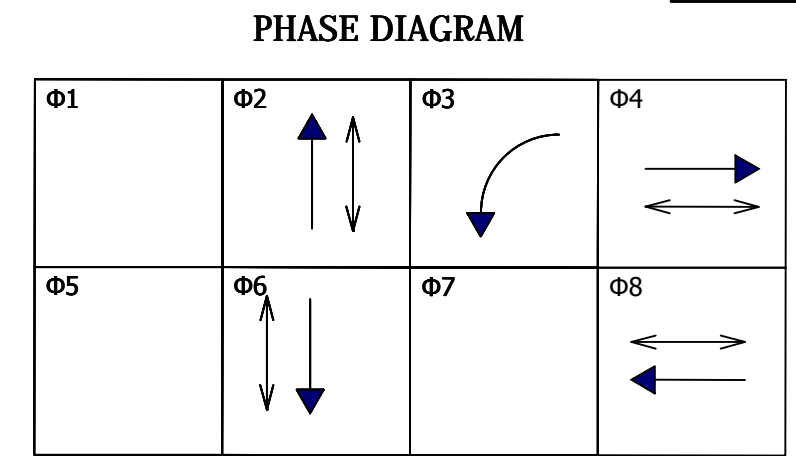
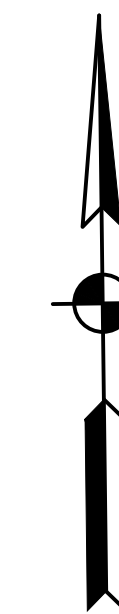
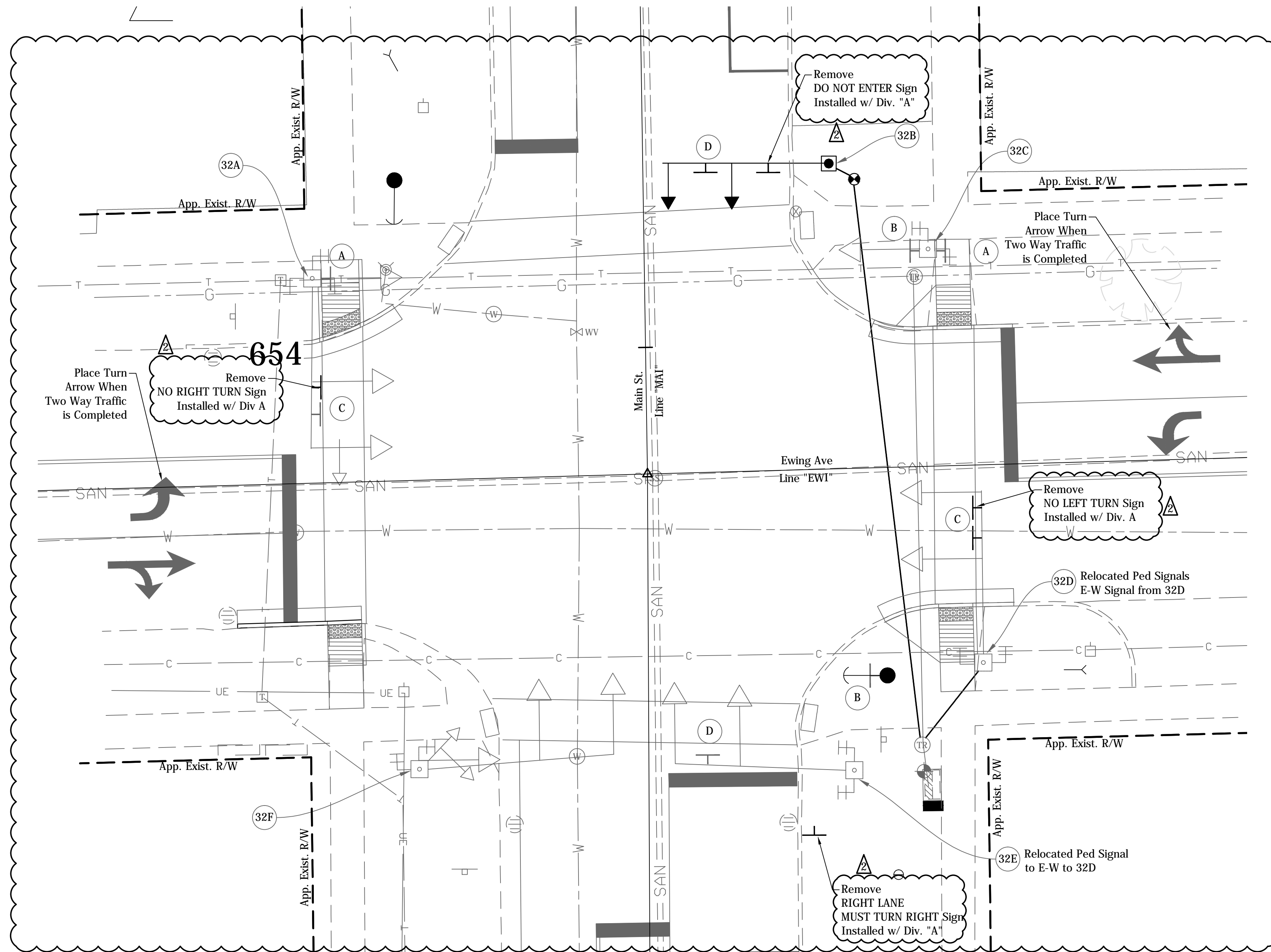
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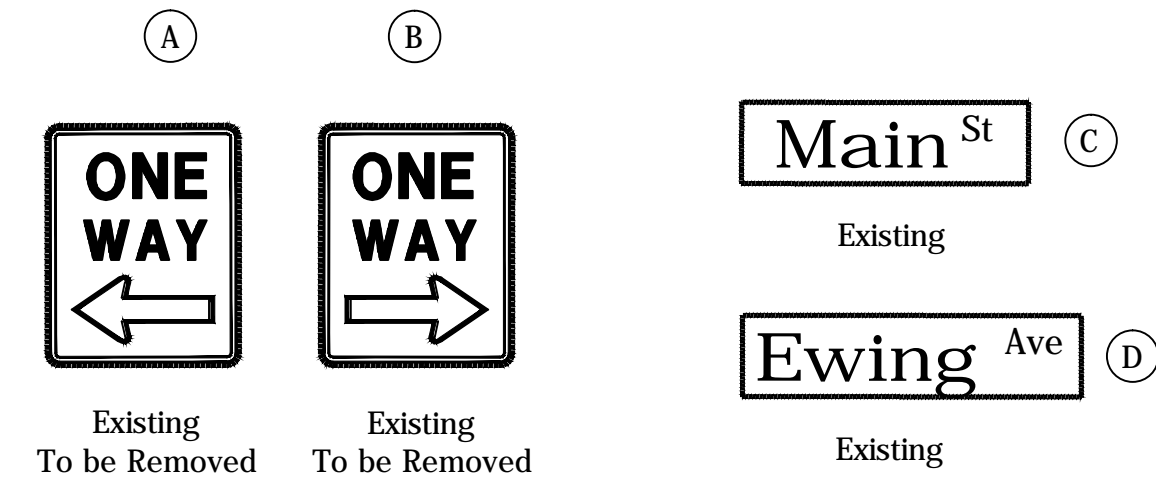


Signal Supports

- 32A To Remain
- 32B To Remain
- 32C To Remain
- 32D To Remain
- 32E To Remain
- 32F To Remain



ALL APPROACHES FLASH RED



- Legend**
- |  |                 |  |                 |  |
|--|-----------------|--|-----------------|--|
|  | <b>Existing</b> |  | <b>Proposed</b> | Strain Pole and Foundation   |
|  | <b>Existing</b> |  |                 | Mast Arm, Upright and Foundation   |
|  | <b>Existing</b> |  |                 | HDPE Schedule 80 Conduit   |
|  | <b>Existing</b> |  |                 | 18" Countdown Pedestrian Indication with Push Button and R10-4B sign                             |
|  | <b>Existing</b> |  |                 | 10" Traffic Signal Pedestal on "A" Foundation  |
|  | <b>Existing</b> |  |                 | Relocated P-1 Cabinet & Controller on New P-1 Foundation   |
|  | <b>Existing</b> |  |                 | Tesco Cabinet on P-1 Foundation  |
|  | <b>Existing</b> |  |                 | Span Mounted Junction Box  |
|  | <b>Existing</b> |  |                 | Handhole   |
|  | <b>Existing</b> |  |                 | 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)                                  |
|  | <b>Existing</b> |  |                 | Relocated 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)                        |
|  | <b>Existing</b> |  |                 | 5-Section LED Signal Indication (12" Red, 12" Amber, 12" Green 12" Amber Arrow, 12" Green Arrow) |
|  | <b>Existing</b> |  |                 | Loop Detector (6' x 6')  |
|  | <b>Existing</b> |  |                 | Service Point  |
|  | <b>Existing</b> |  |                 | Detector Housing   |
|  | <b>Existing</b> |  |                 | Conduit Intercept  |

General Notes:

1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
2. Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purpose of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
3. Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
4. Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 3" conduit shall carry the power feed between the service point and the service pedestal.
5. Proposed mast arm foundations, pedestal foundations and cabinet footpads shall be constructed with a finished surface that is flush with the proposed sidewalk.
6. Existing & proposed mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
7. Salvaged signal equipment shall be delivered to the City at the following address: 731 S Lafayette Blvd, South Bend, IN 46601
8. EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeremy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
9. Replace Hand Hole Covers on Existing Mast Arms as Necessary.
10. All Conduit Under Pavement Shall Utilize the Directional Bore Method for Installation.

DATE	REVISION
1/15/2016	Rev 1: Revise Gen. Notes and Sign Call Outs
1/29/2016	Rev 2: Revise Notes on Sign Call Outs

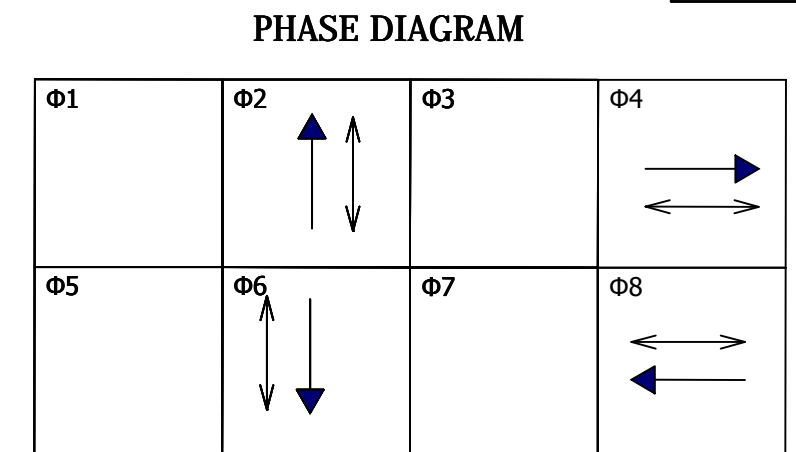
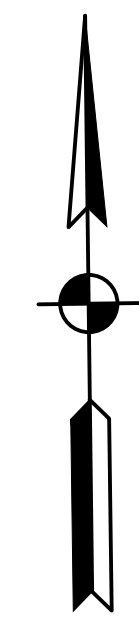
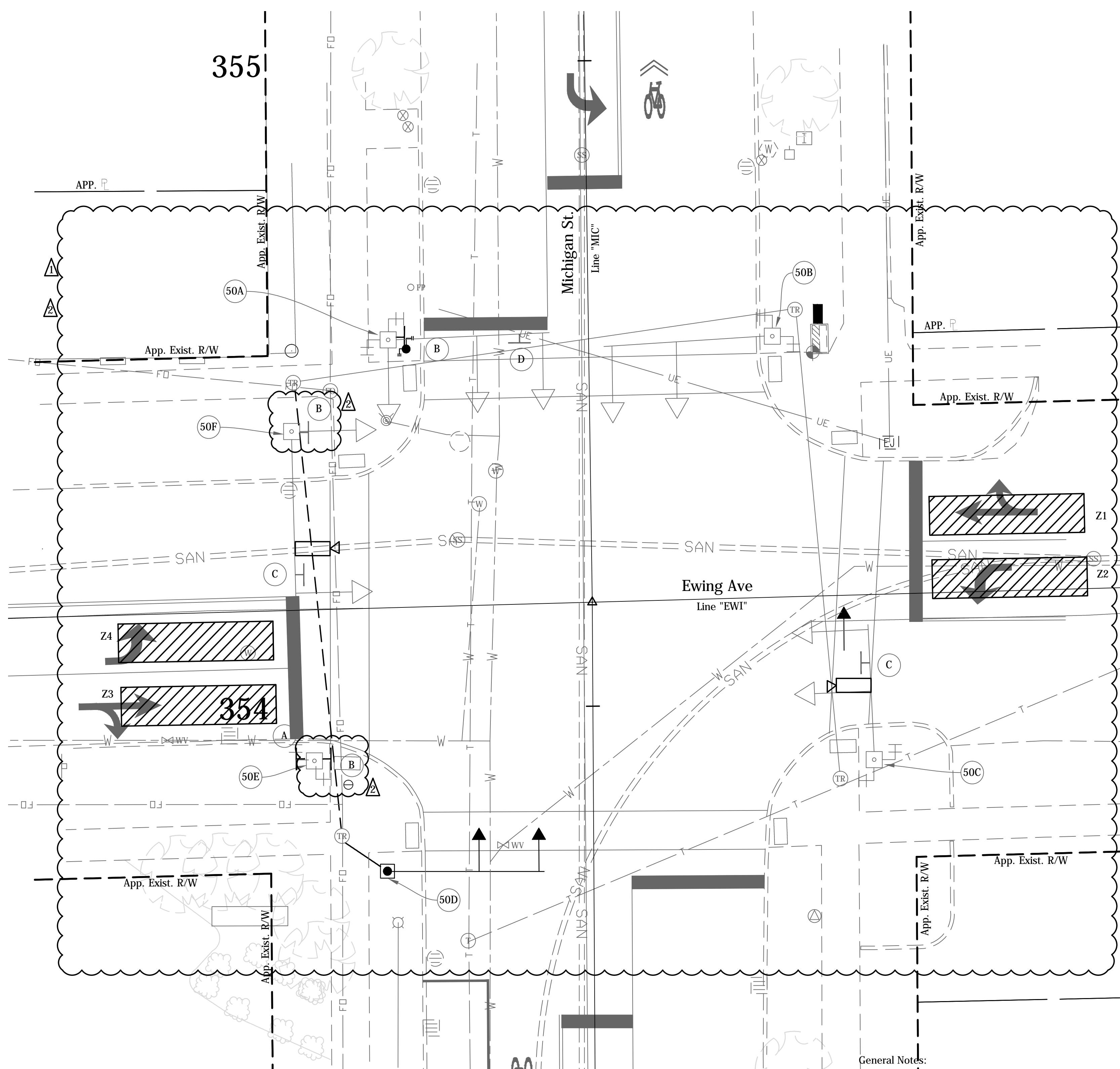
**CITY OF SOUTH BEND**

DESIGNER	DATE:	
DESIGN ENG. <i>Harry Fox</i>	DATE: 01/07/2016	
<b>TRAFFIC SIGNAL DETAIL MAIN ST &amp; EWING AVE</b>		
CONTRACT NO. N/A	DRAWN BY BRD	SCALE: 1" = 10'
		YEAR SHEET TOTAL 2016 142 246
<b>COMM. NO. N/A</b>	DES. NO. N/A	PROJECT NO. 115-019 (DIV B)

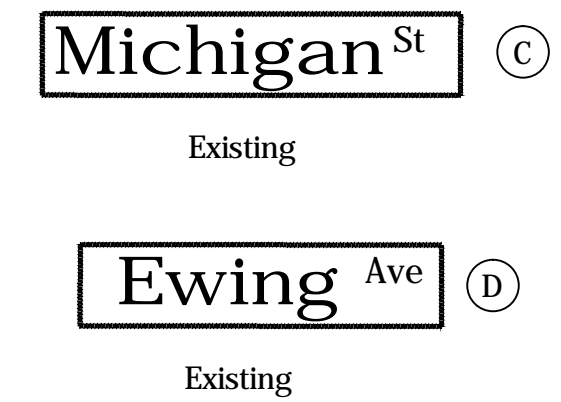
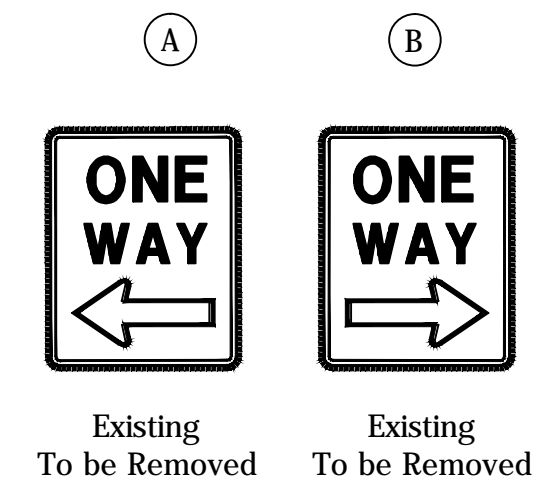
DIRECTORY: F:\2015\15-329 South Bend, 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\SIGNAL Plans North\  
 FILE:.....15-329 Signal Plans corr north main-ewing.dwg  
 DMSCALE:1  
 PLOTTED BY: BRD  
 DATE: 01/07/2016 8:10am

Signal Supports

- 50A To Remain
- 50B To Remain
- 50C To Remain
- 50D To Remain
- 50E To Remain
- 50F To Remain



ALL APPROACHES FLASH RED



- Legend**
- |  |  |   |
|--|--|---|
|  |  | Strain Pole and Foundation  |
|  |  | Mast Arm, Upright and Foundation  |
|  |  | HDPE Schedule 80 Conduit  |
|  |  | 18" Countdown Pedestrian Indication with Push Button and R10-4B sign                              |
|  |  | 10' Traffic Signal Pedestal on "A" Foundation   |
|  |  | Relocated P-1 Cabinet & Controller on New P-1 Foundation  |
|  |  | Tesco Cabinet on P-1 Foundation   |
|  |  | Span Mounted Junction Box   |
|  |  | Handhole  |
|  |  | 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)                                   |
|  |  | Relocated 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)                         |
|  |  | 5-Section LED Signal Indication (12" Red, 12" Amber, 12" Green, 12" Amber Arrow, 12" Green Arrow) |
|  |  | Loop Detector (6' x 6')   |
|  |  | Service Point   |
|  |  | Detector Housing  |
|  |  | Conduit Intercept   |
|  |  | Detection Camera  |
|  |  | Detection Zones   |

General Notes:

- Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
- Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purpose of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
- Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
- Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 3" conduit shall carry the power feed between the service point and the service pedestal.
- Proposed mast arm foundations, pedestal foundations and cabinet footpads shall be constructed with a finished surface that is flush with the proposed sidewalk.
- Existing & proposed mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
- Salvaged signal equipment shall be delivered to the City at the following address: 731 S Lafayette Blvd, South Bend, IN 46601
- EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeremy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
- Replace Hand Hole Covers on Existing Mast Arms as Necessary.
- All Conduit Under Pavement Shall Utilize the Directional Bore Method for Installation.

DATE	REVISION
1/15/2016	Rev 1: Revise Gen. Notes and Sign Call Outs
1/29/2016	Rev 2: Removed Overhead Signs and Added Legend Call out

**CITY OF SOUTH BEND**

DESIGNER	DATE:	
DESIGN ENG. <i>Harry Fox</i>	DATE: 01/07/2016	
<b>TRAFFIC SIGNAL DETAIL</b>		
<b>MICHIGAN ST &amp; EWING AVE</b>		
CONTRACT NO. N/A	DRAWN BY BRD	SCALE: 1" = 10'
		YEAR SHEET TOTAL
		2016 156 246
<b>COMM. NO. N/A</b>	DES. NO. N/A	PROJECT NO. 115-019 (DIV B)

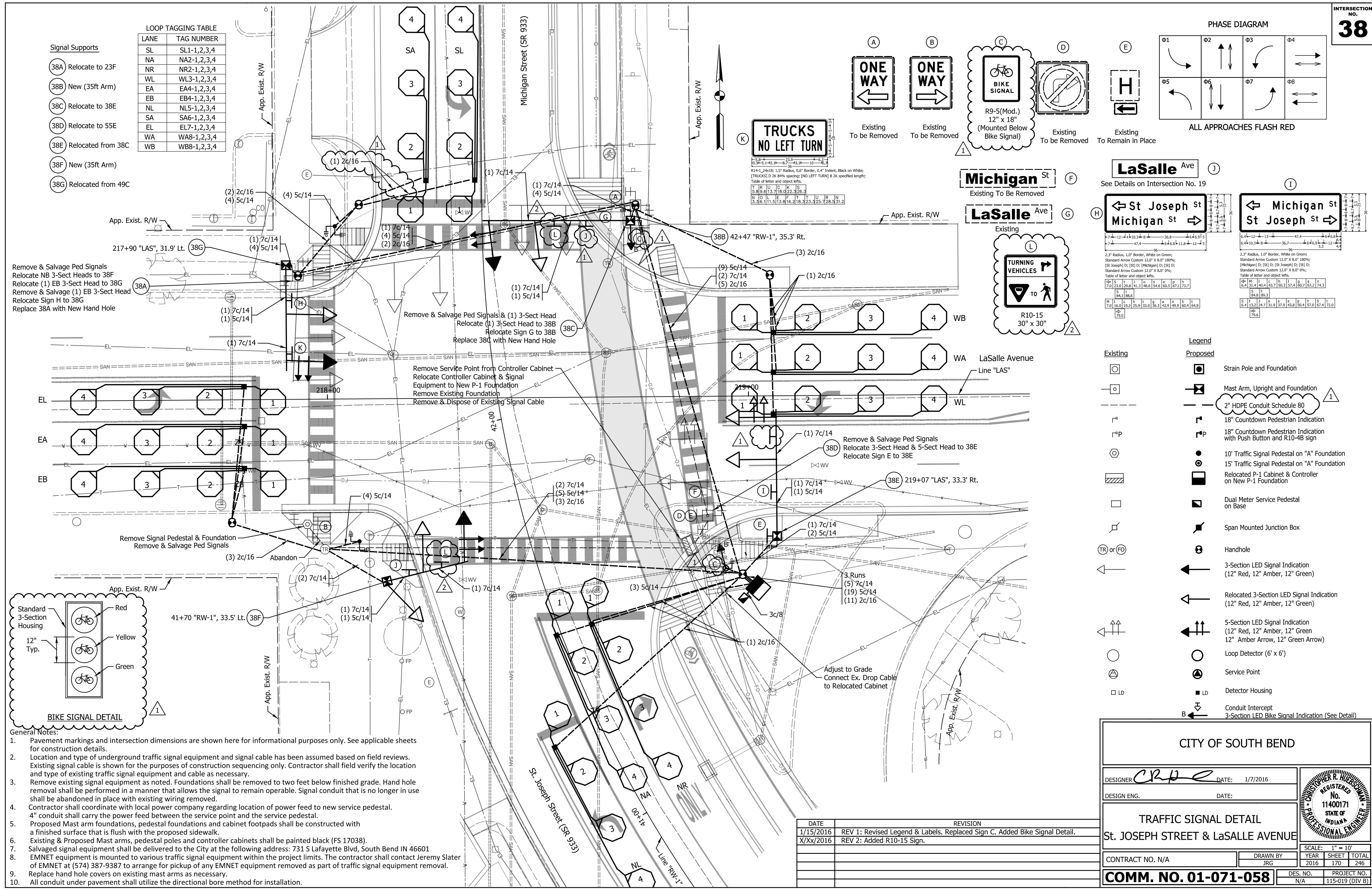
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 FILE: ...15-3329 Signal Plans north.dwg  
 DMSCALE: 1" = 100'-0" (SCALE: 1" = 100'-0")  
 DATE: 01/07/2016 8:12am

**LOOP TAGGING TABLE**

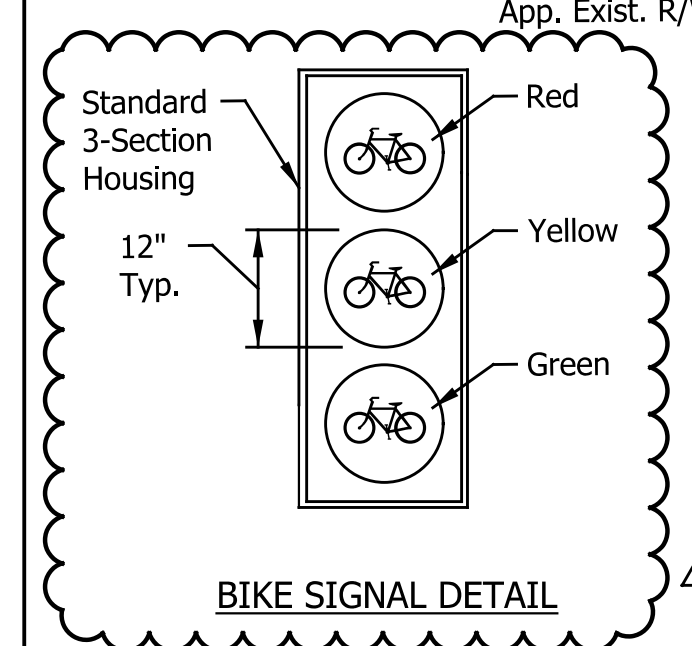
LANE	TAG NUMBER
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NA	NA2-1,2,3,4
NR	NR2-1,2,3,4
WL	WL3-1,2,3,4
EA	EA4-1,2,3,4
EB	EB4-1,2,3,4
NL	NL5-1,2,3,4
SA	SA6-1,2,3,4
WA	WA8-1,2,3,4
WB	WB8-1,2,3,4

**Signal Supports**

- 38A Relocate to 23F
- 38B New (35ft Arm)
- 38C Relocate to 38E
- 38D Relocate to 55E
- 38E Relocated from 38C
- 38F New (35ft Arm)
- 38G Relocated from 38C
- 38F Relocated from 49C



- General Notes:**
- Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
  - Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purposes of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
  - Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
  - Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 4" conduit shall carry the power feed between the service point and the service pedestal.
  - Proposed Mast arm foundations, pedestal foundations and cabinet footpads shall be constructed with a finished surface that is flush with the proposed sidewalk.
  - Existing & Proposed Mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
  - Salvaged signal equipment shall be delivered to the City at the following address: 731 S Lafayette Blvd, South Bend IN 46601
  - EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeremy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
  - Replace hand hole covers on existing mast arms as necessary.
  - All conduit under pavement shall utilize the directional bore method for installation.



DATE	REVISION
1/15/2016	REV 1: Revised Legend & Labels, Replaced Sign C, Added Bike Signal Detail.
X/XX/2016	REV 2: Added R10-15 Sign.

**CITY OF SOUTH BEND**

DESIGNER: *CRP* DATE: 1/7/2016

DESIGN ENG. DATE:

**TRAFFIC SIGNAL DETAIL**  
**St. JOSEPH STREET & LaSALLE AVENUE**

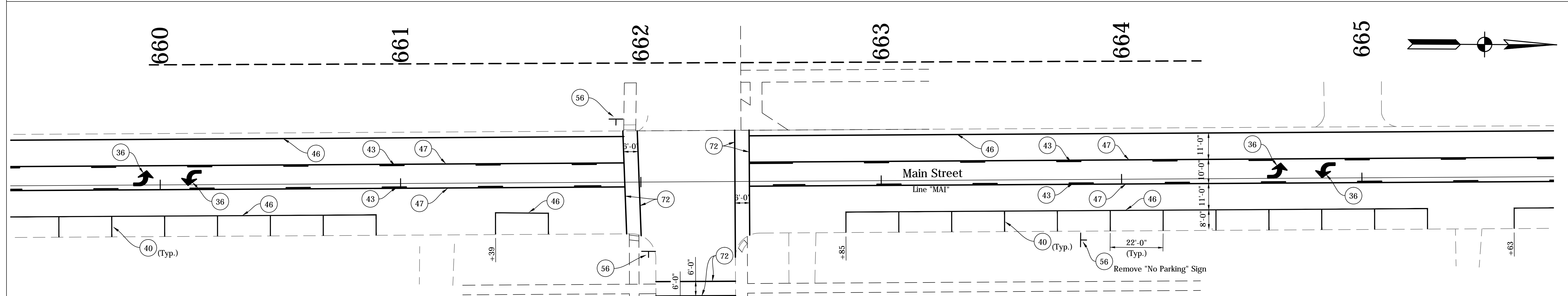
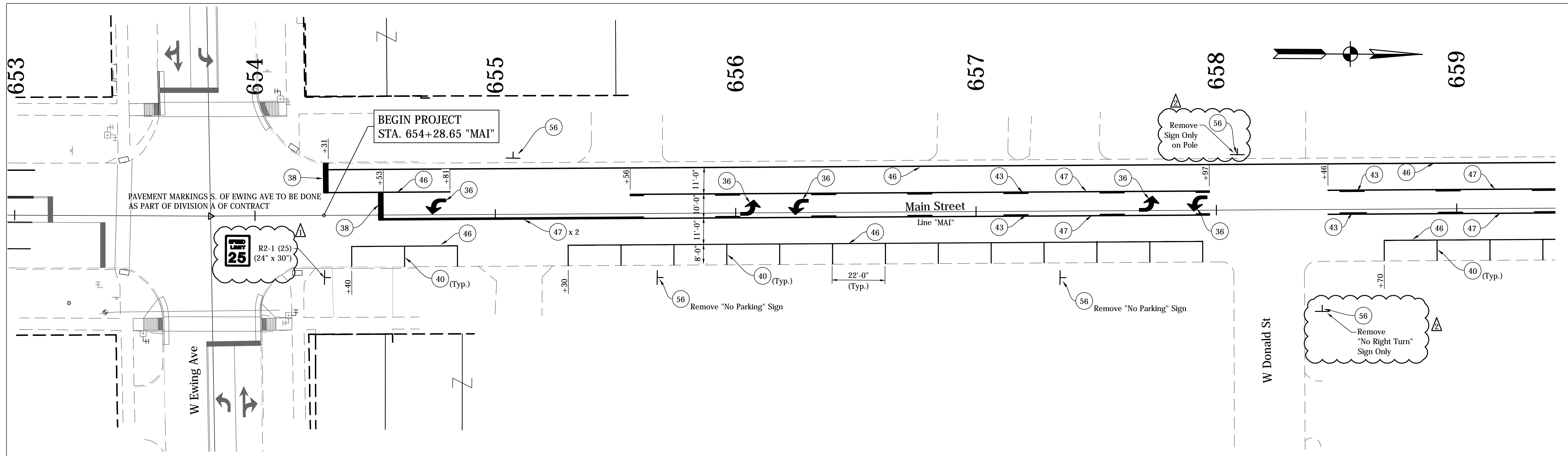
SCALE: 1" = 10'

CONTRACT NO. N/A	DRAWN BY: JRG	YEAR: 2016	SHEET: 170	TOTAL: 246
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**COMM. NO. 01-071-058**

DES. NO. PROJECT NO. 115-019 (DIV B)

**REGISTERED PROFESSIONAL ENGINEER**  
No. 11400171  
STATE OF INDIANA

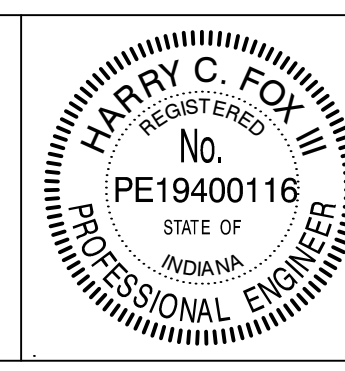


NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MAI", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend, 2-Way Conversion\DRAWINGS\PAVEMENT MARKINGS\PM North\...  
 FILE: ...15-3329 PM Main at NORTH.dwg  
 DIMSCALE: 1/8"=1'-0"  
 PLOTTED BY: J. Burson  
 DATE: 1/29/2016 8:14am

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Sign
1/29/2016	Rev 2: Revise Legend & Add Note to Signs



RECOMMENDED FOR APPROVAL: *Harry Fox* DESIGN ENGINEER 01/07/2016 DATE

DESIGNED: HCF III DRAWN: BRD

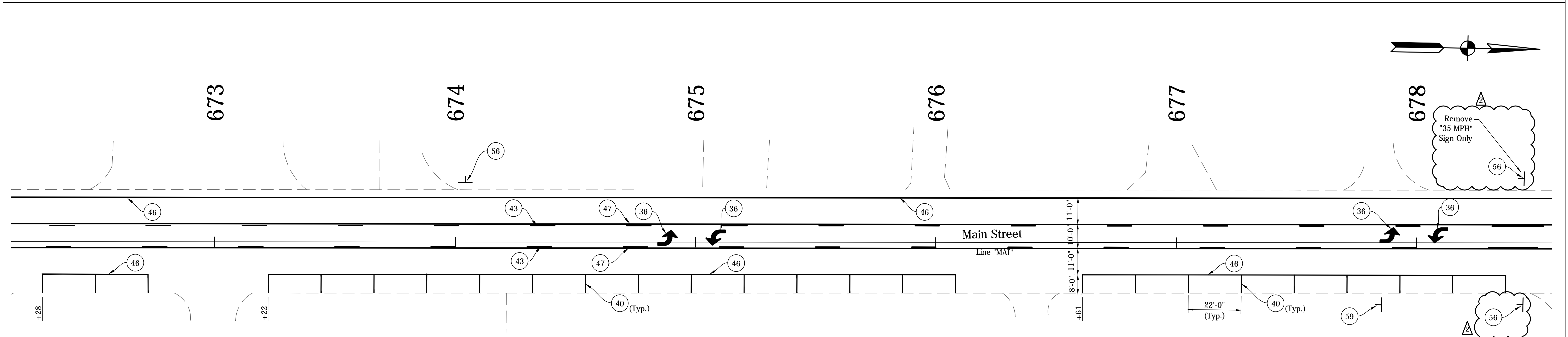
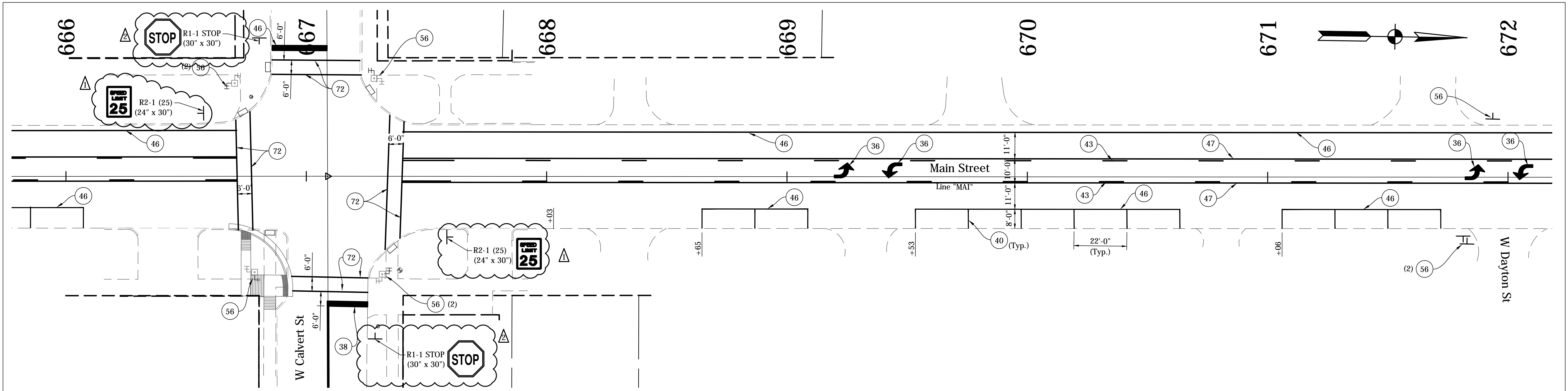
CHECKED: JG CHECKED: JG

CITY OF SOUTH BEND

PAVEMENT MARKINGS & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	185 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



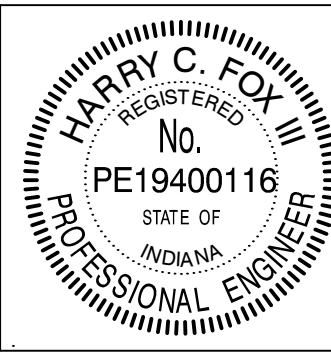
NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MIA", Except as Noted.

**LEGEND**

- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- (40) Parallel Parking Spaces, See Detail
- (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- (43) Line, Thermoplastic, Broken, Yellow, 4 in.
- (45) Line, Thermoplastic, Solid, White, 6 in.
- (46) Line, Thermoplastic, Solid, White, 4 in.
- (47) Line, Thermoplastic, Solid, Yellow, 4 in.
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2016\15-3329 South Bend, 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\...  
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 DIMSCALE: 1" = 20'  
 PLOTTED BY: B. Brown  
 DATE: 1/29/2016 8:14am

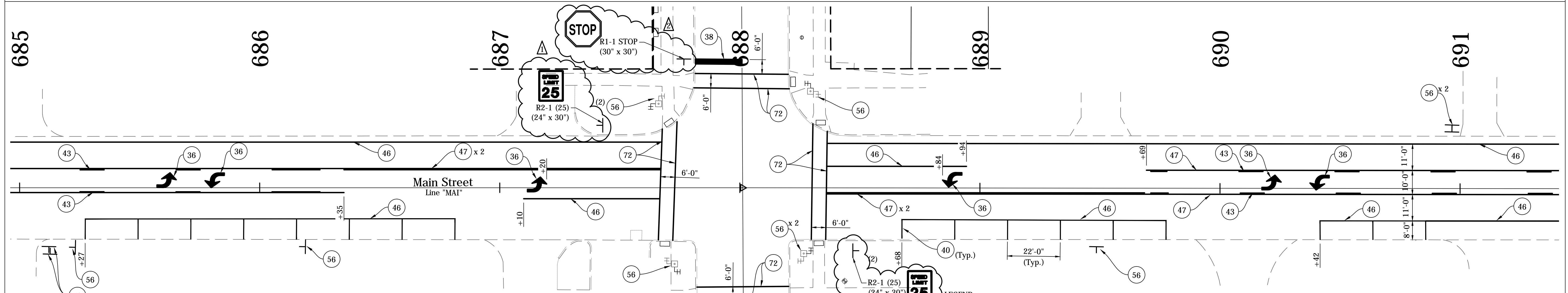
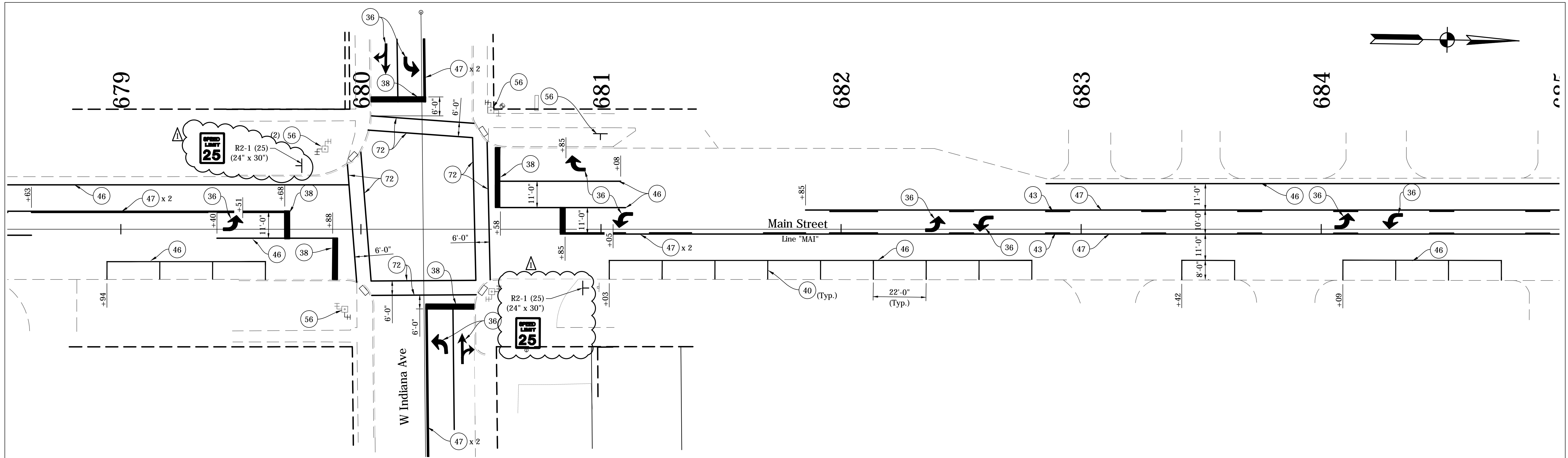
DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Signs



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

**CITY OF SOUTH BEND**  
  
**PAVEMENT MARKINGS & SIGNING DETAILS**  
  
**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	186 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

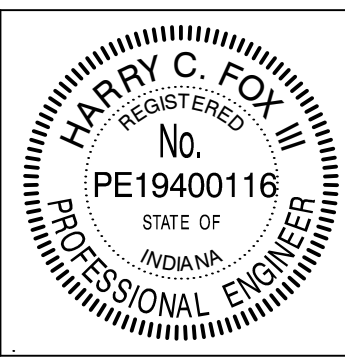


NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MIA", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2016\15-3329 South Bend, 2-Way Conversion\DRAWINGS\PAVEMENT MARKINGS\PM North\  
 FILE: 15-3329 PM Main at NORTH.dwg  
 DIMSCALE: 1/8"=1'-0"  
 PLOTTED BY: J. Burson  
 DATE: 1/29/2016 8:14am

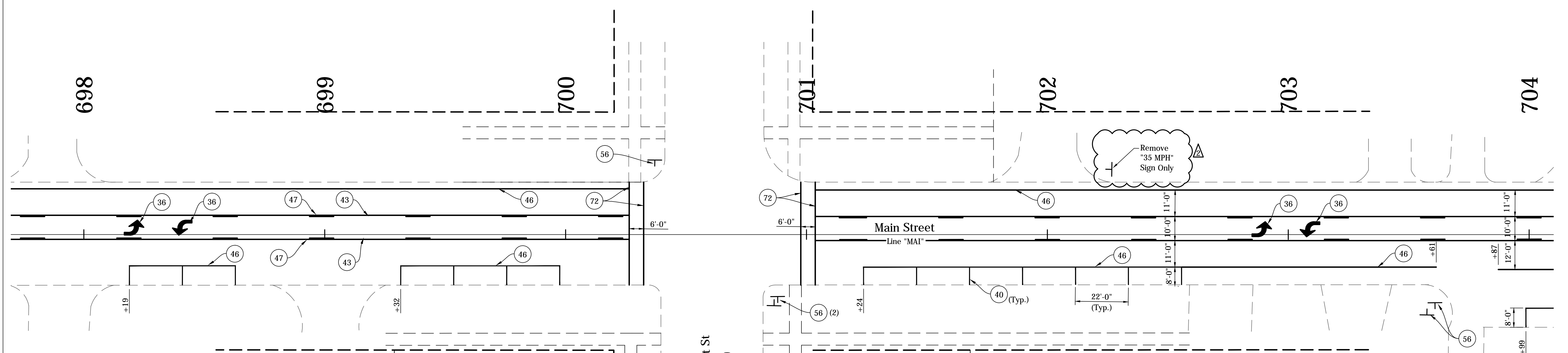
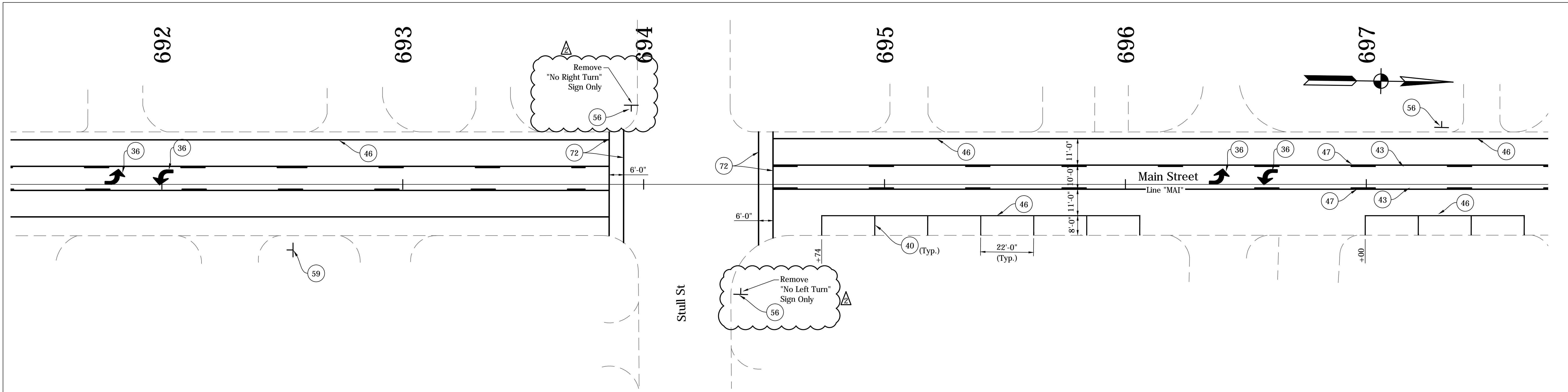
DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

**CITY OF SOUTH BEND**  
  
**PAVEMENT MARKINGS & SIGNING DETAILS**  
  
**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	187 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



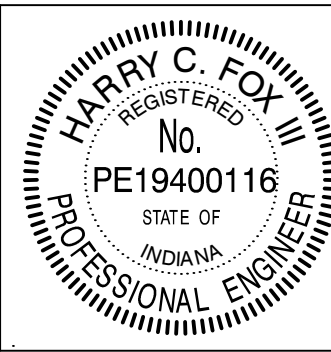
NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MAI", Except as Noted.

LEGEND

- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- (40) Parallel Parking Spaces, See Detail
- (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- (43) Line, Thermoplastic, Broken, Yellow, 4 in.
- (45) Line, Thermoplastic, Solid, White, 6 in.
- (46) Line, Thermoplastic, Solid, White, 4 in.
- (47) Line, Thermoplastic, Solid, Yellow, 4 in.
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2016\15-3329 South Bend, 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North  
 FILE: 15-3329 PM Main at NORTH.dwg  
 DIMSCALE: 1/8"=1'-0"  
 PLOTTED BY: JG  
 DATE: 01/07/2016 8:14am

DATE	REVISION
1/15/2016	Rev 1: Revise Legend
1/29/2016	Rev 2: Revise Legend & Add Note to Signs



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

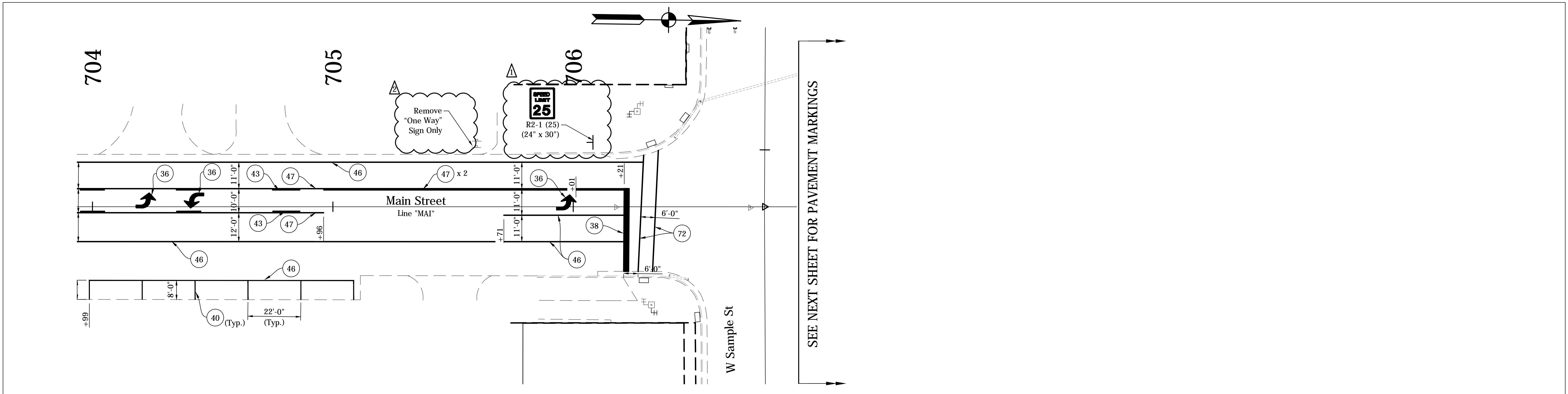
CITY OF SOUTH BEND

**PAVEMENT MARKINGS & SIGNING DETAILS**

**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	188 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2016\15-3329 South Bend, 2-Way Conversion\DRAWINGS\PAVEMENT MARKINGS\PM North\
   
 FILE: .....15-3329 PM Main at NORTH.dwg
   
 DIMSCALE: 1"=20'
   
 PLOTTED BY: JG
   
 DATE: .....01/29/2016 - 8:15am



**LEGEND**

- ③4 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- ③5 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- ③6 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- ③8 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- ④0 Parallel Parking Spaces, See Detail
- ④1 Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- ④3 Line, Thermoplastic, Broken, Yellow, 4 in.
- ④5 Line, Thermoplastic, Solid, White, 6 in.
- ④6 Line, Thermoplastic, Solid, White, 4 in.
- ④7 Line, Thermoplastic, Solid, Yellow, 4 in.
- ⑤5 Pavement Message Markings, Thermoplastic, Share the Road
- ⑤6 Sign, Sheet, and Supports, Remove
- ⑤8 Sign, Sheet, Relocate
- ⑤9 Sign, Sheet, Remove & Reset
- ⑦2 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Sign
1/29/2016	Rev 2: Revise Legend & Add Note to Sign

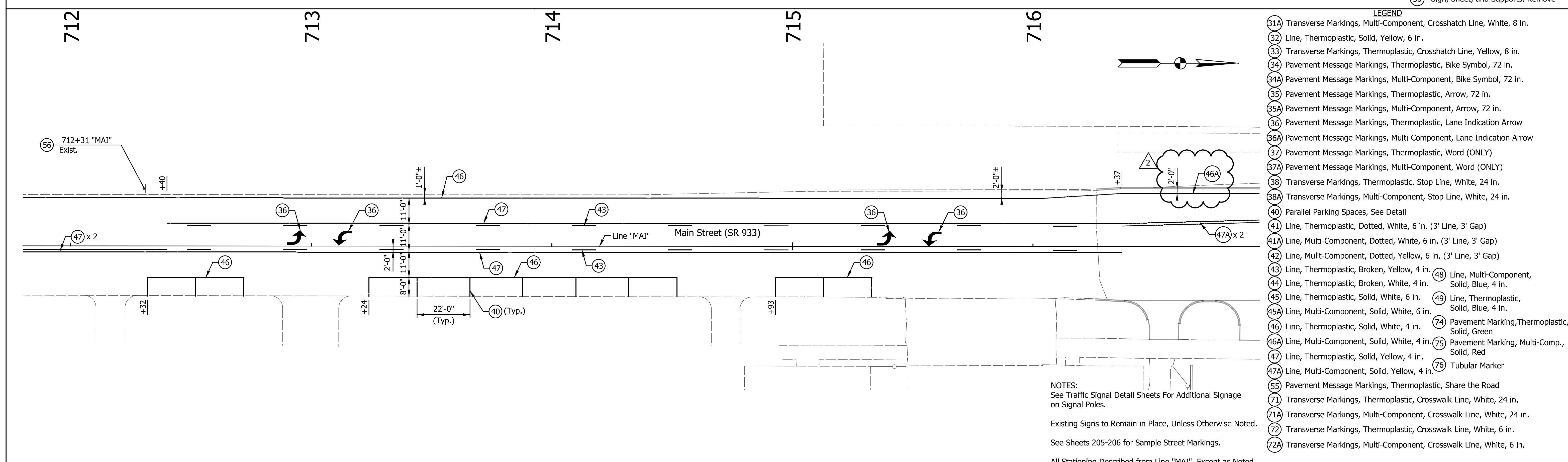
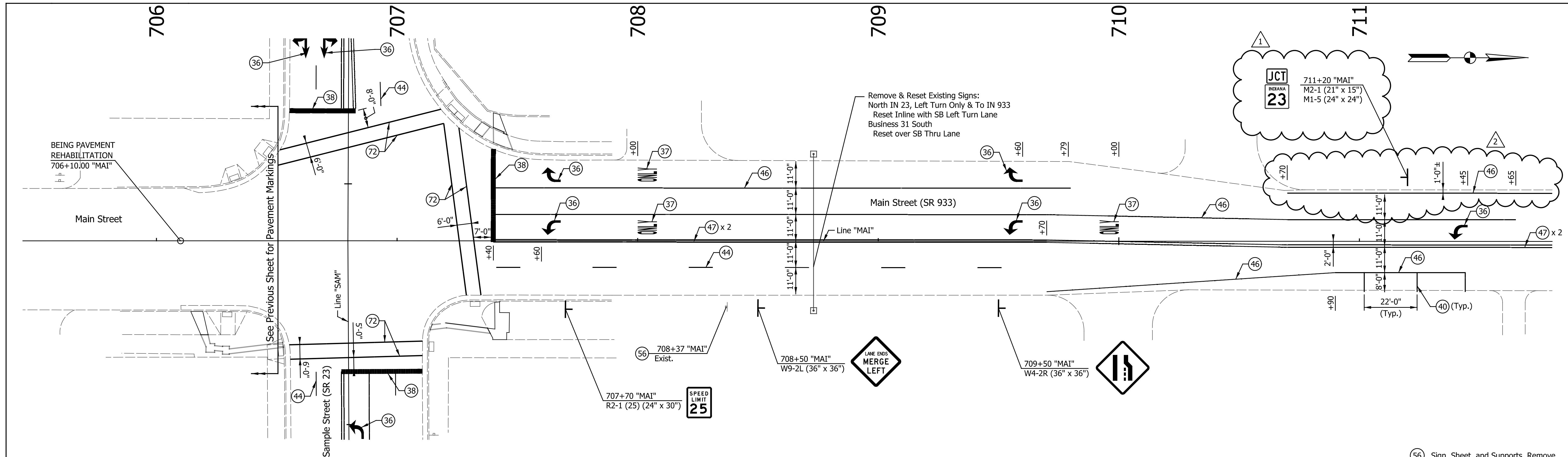


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:
		DATE

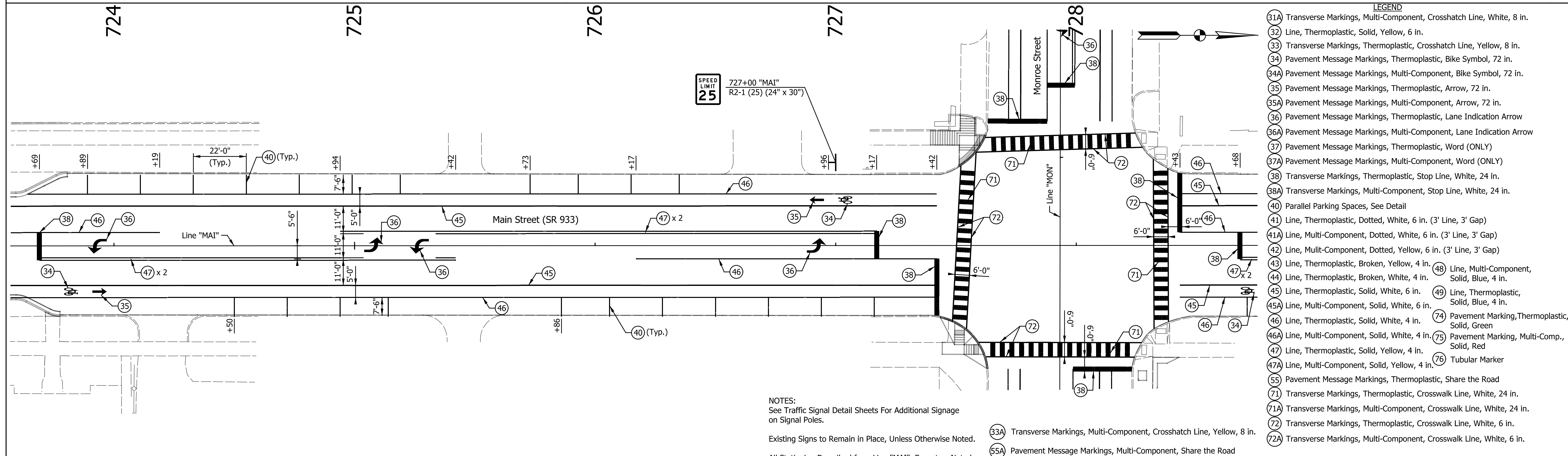
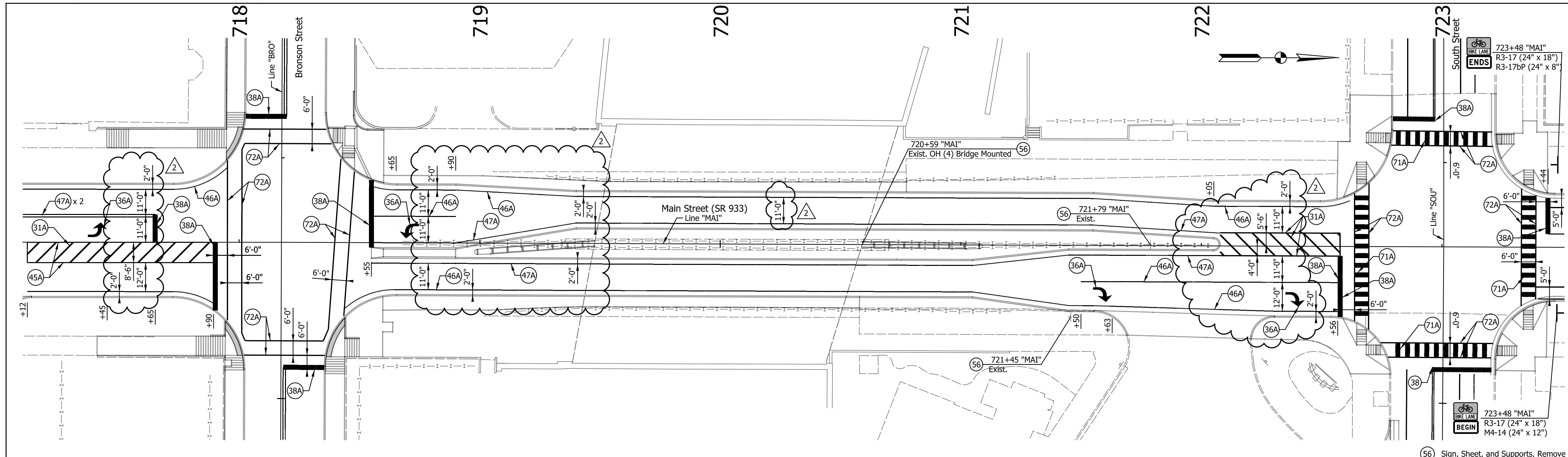
**CITY OF SOUTH BEND**  
**PAVEMENT MARKINGS & SIGNING DETAILS**  
**MAIN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	189 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

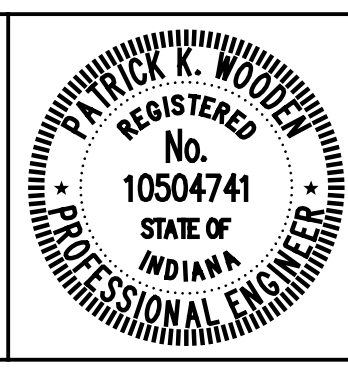




DATE	REVISION			CITY OF SOUTH BEND		HORIZONTAL SCALE	BRIDGE FILE
1/15/2016	REV 1: Revised Sign					1" = 20'	N/A
1/29/2016	REV 2: Revised Markings					VERTICAL SCALE	DESIGNATION
						N/A	N/A
						SURVEY BOOK	SHEETS
						N/A	190 of 246
						CONTRACT	PROJECT
						N/A	115-019 (DIV B)



DATE	REVISION
1/29/2016	REV 2: Revised Markings

RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016	
DESIGNED:	MRR	DRAWN:	
CHECKED:	PKW	CHECKED:	

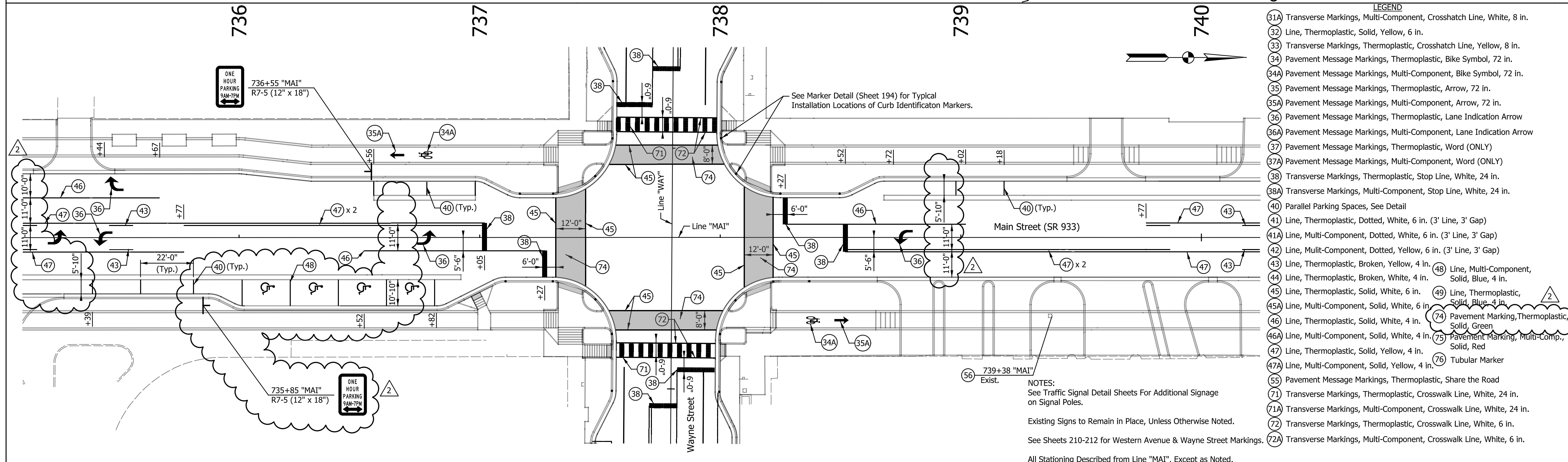
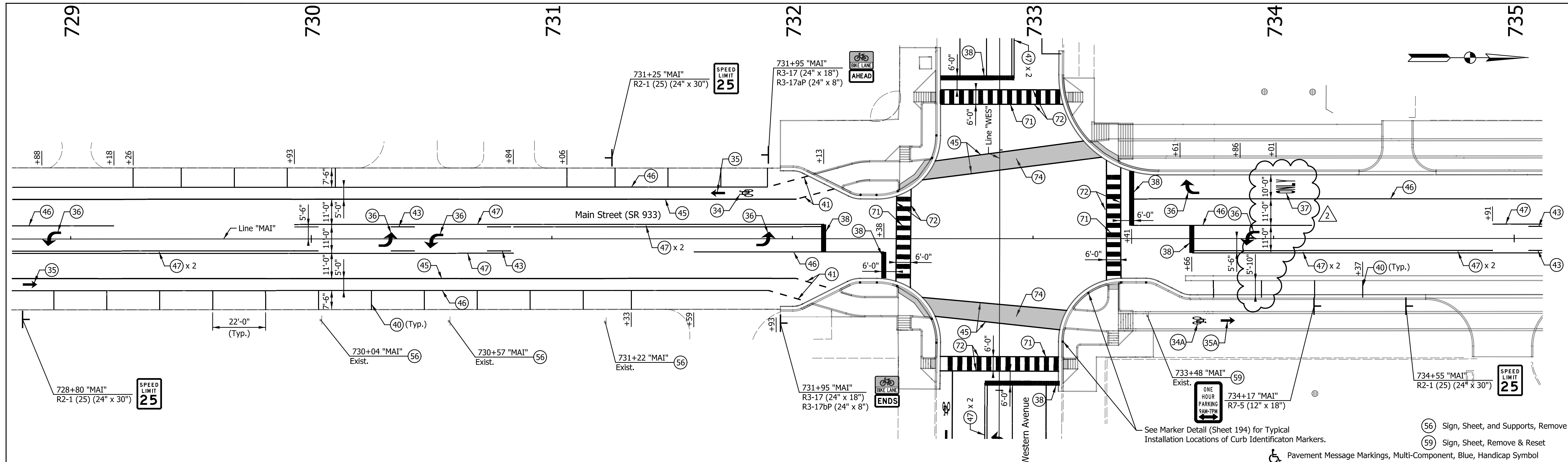
CITY OF SOUTH BEND  
PAVEMENT MARKING & SIGNING DETAILS  
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	191 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.

NOTES:  
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
Existing Signs to Remain in Place, Unless Otherwise Noted.  
All Stationing Described from Line "MAI", Except as Noted.

1/29/2016 8:56:25 AM P:\2014\101351\Drawings\201401351.RD.PM.MAIN.02.dgn



- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Thermoplastic, Broken, White, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (50) Line, Thermoplastic, Solid, Green, 4 in.
  - (51) Pavement Marking, Thermoplastic, Solid, Green
  - (52) Pavement Marking, Multi-Comp., Solid, Red
  - (53) Tubular Marker
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.

NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 See Sheets 210-212 for Western Avenue & Wayne Street Markings.  
 All Stationing Described from Line "MAI", Except as Noted.

DATE	REVISION
1/29/2016	REV 2: Revised Markings & Added Additional Handicap Spots

REGISTERED PROFESSIONAL ENGINEER  
 No. 10504741  
 STATE OF INDIANA  
 P. PARKER R. WOODRUFF

RECOMMENDED FOR APPROVAL: *Parker R. Woodruff* DESIGN ENGINEER DATE: 1/7/2016

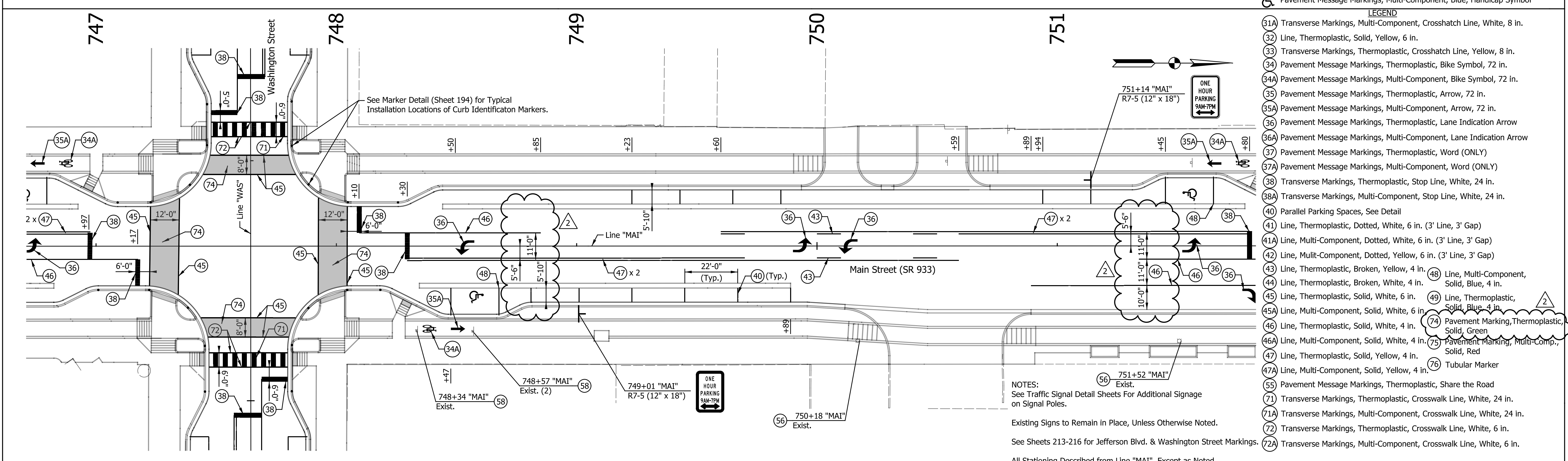
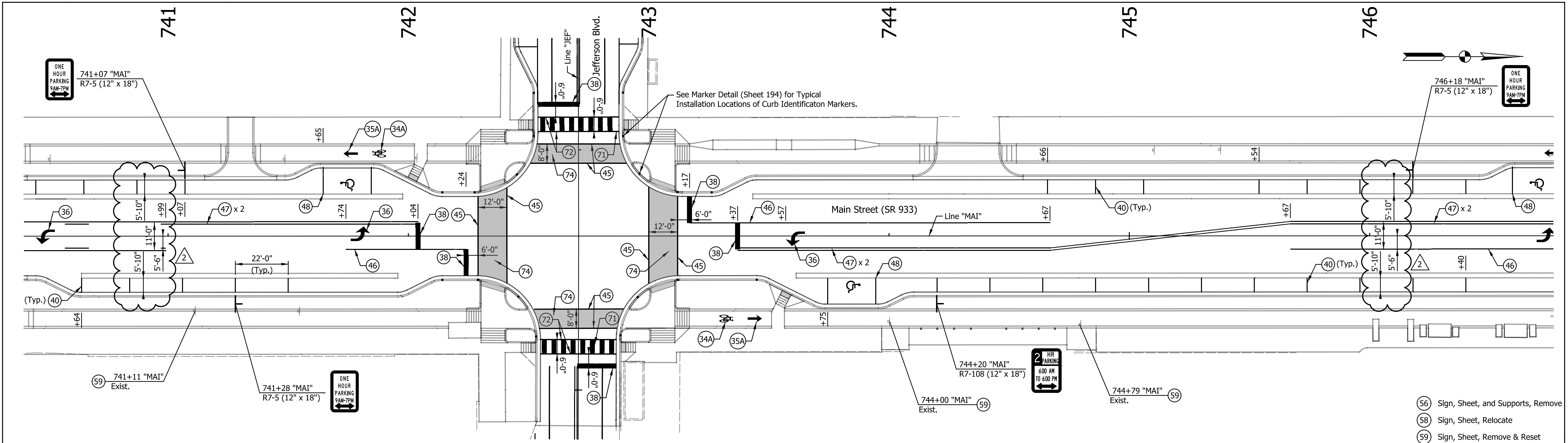
DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS  
 MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	192 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 8:56:29 AM P:\2014\101351\1\Drawings\201401351.RD.PM.MAIN.03.dgn



- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- Pavement Message Markings, Multi-Component, Blue, Handicap Symbol

- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Thermoplastic, Broken, White, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (48A) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49A) Line, Multi-Component, Solid, Blue, 4 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.

NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 See Sheets 213-216 for Jefferson Blvd. & Washington Street Markings.  
 All Stationing Described from Line "MAI", Except as Noted.

DATE	REVISION
1/29/2016	REV 2: Revised Markings



RECOMMENDED FOR APPROVAL: *Patrick Wooden* DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

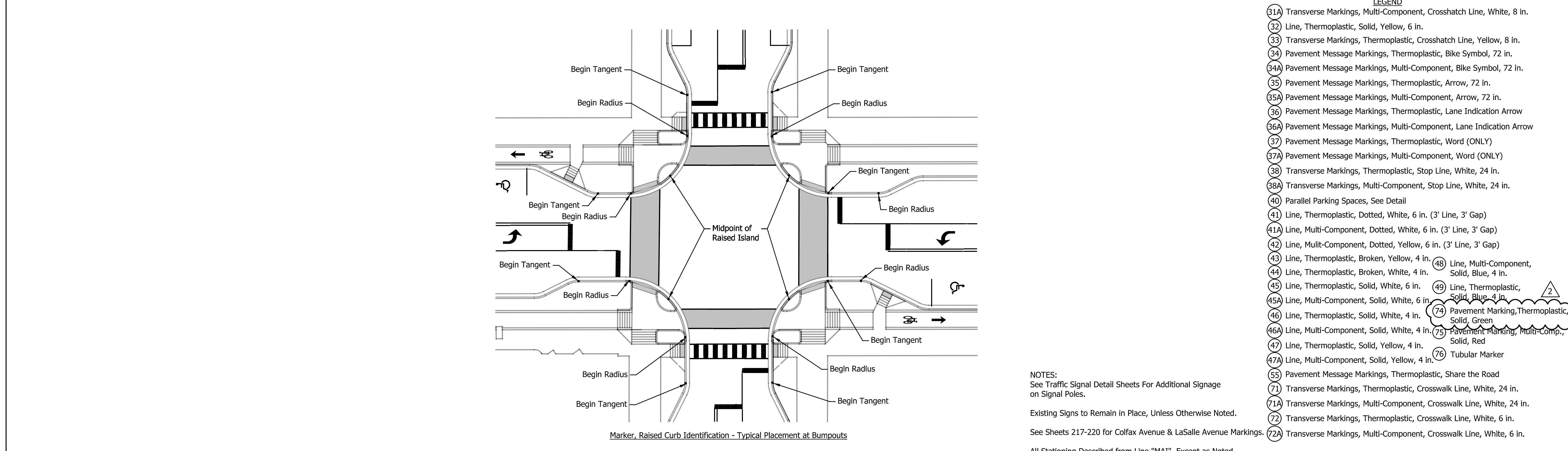
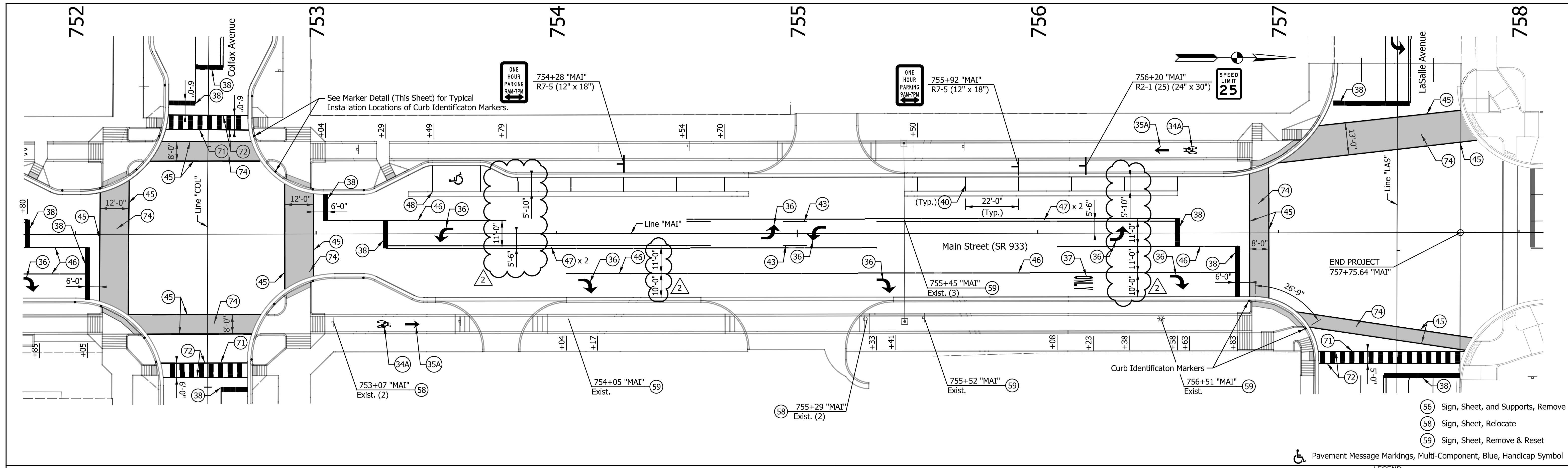
CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	193 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

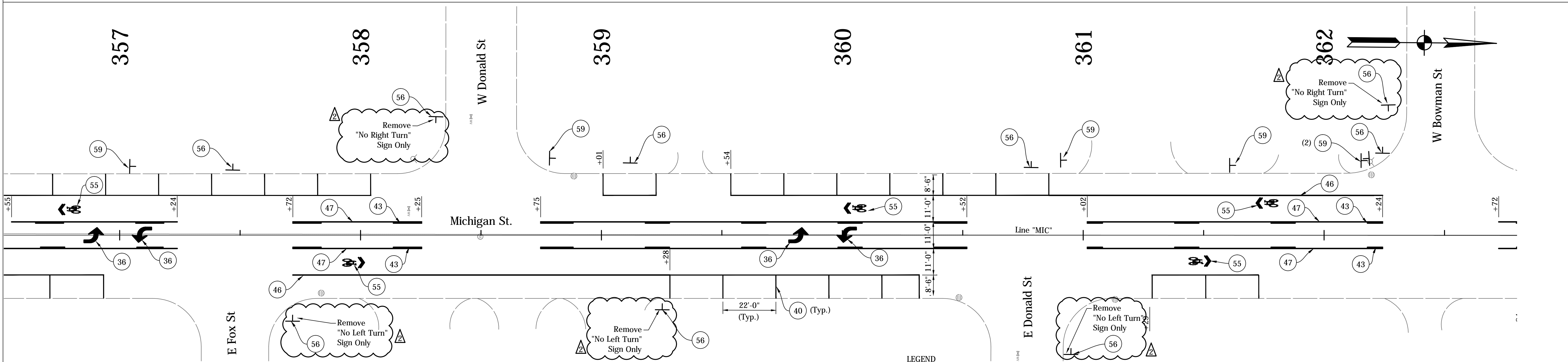
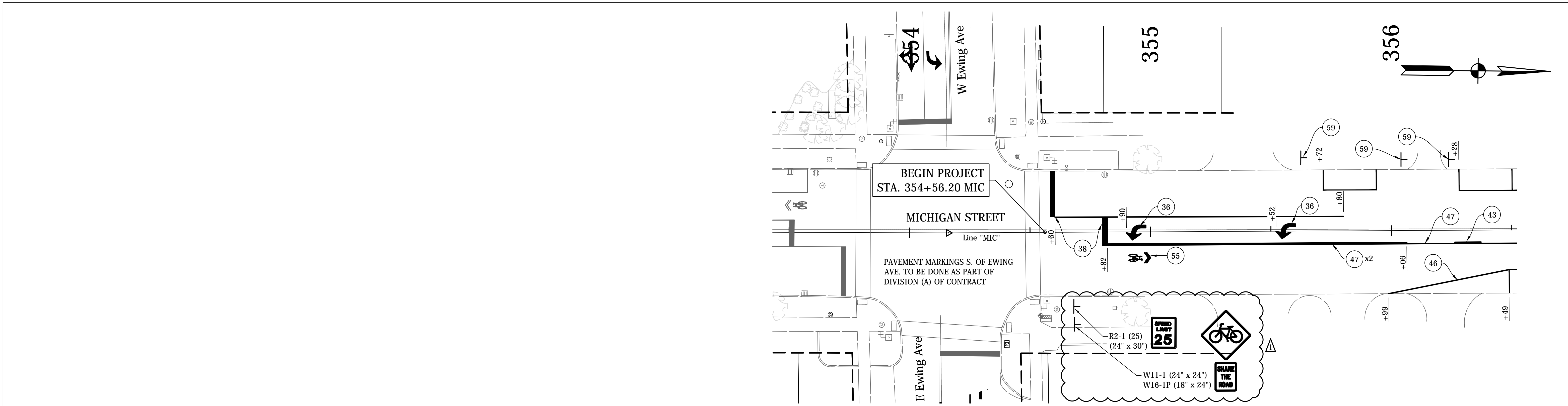
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DATE: 1/29/2016		REVISION: REV 2: Revised Markings			RECOMMENDED FOR APPROVAL: <i>Patrick Woodman</i> DESIGN ENGINEER DATE: 1/7/2016	CITY OF SOUTH BEND <b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> MAIN STREET	HORIZONTAL SCALE: 1" = 20'	BRIDGE FILE: N/A
							VERTICAL SCALE: N/A	DESIGNATION: N/A
				DESIGNED: MRR	DRAWN: JRG	SURVEY BOOK: N/A	SHEETS: 194 of 246	
				CHECKED: PKW	CHECKED: PKW			CONTRACT: N/A

I:\p\paw\paw\201401351\_3\mde.dwg  
 2/10/2014 10:35:11 AM

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\  
 FILE: .....15-3329 PM Michigan at north.dwg  
 DIMSCALE: 1"=20'  
 PLOTTED BY: BOURZ  
 DATE: .....08/29/2016 8:15am



- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

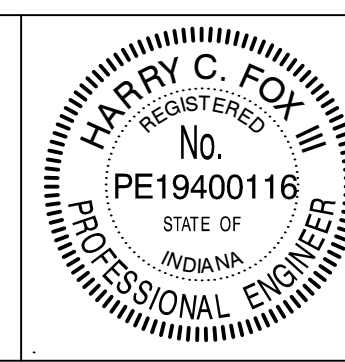
**NOTES:**

See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

Existing Signs to Remain in Place, Unless Otherwise Noted.

All Stationing Described from Line "MIC", Except as Noted.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Signs



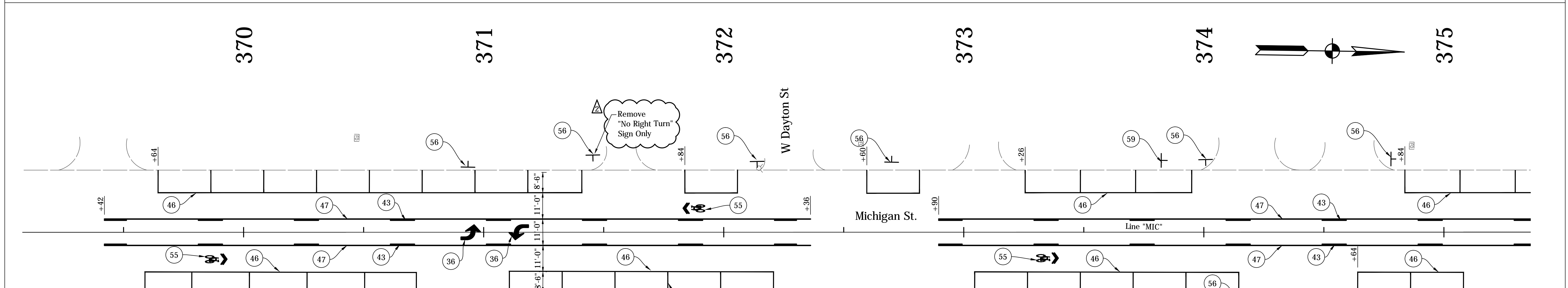
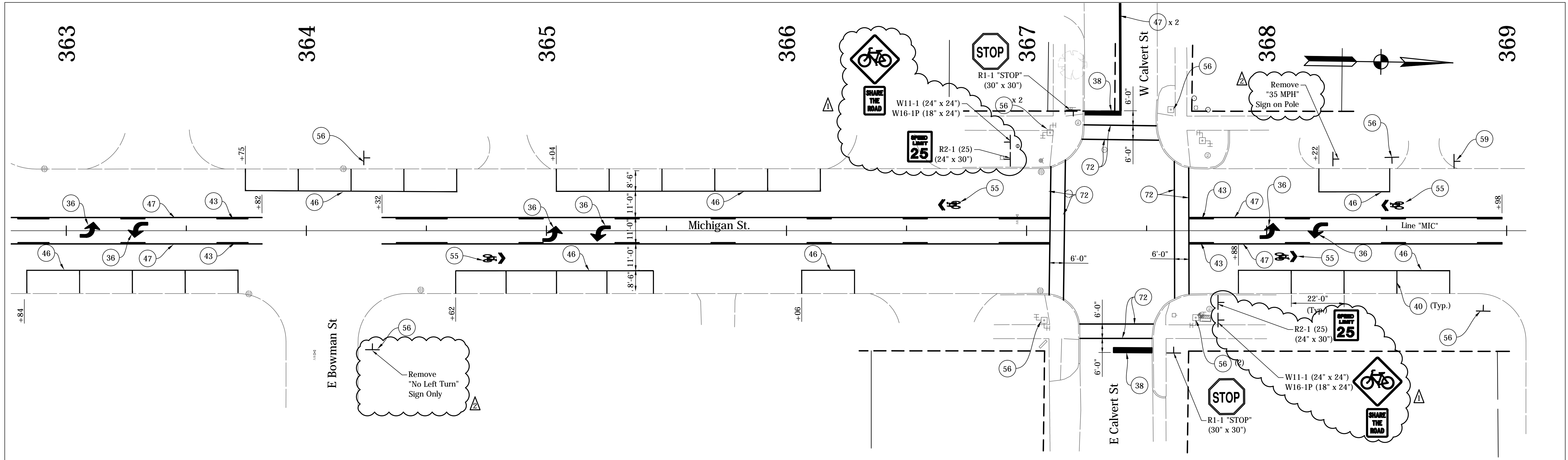
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

**PAVEMENT MARKING & SIGNING DETAILS**

**MICHIGAN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	195 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

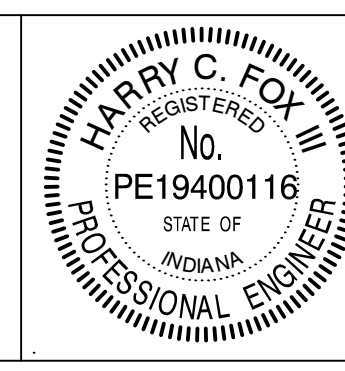


NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MIC", Except as Noted.

LEGEND	
34	Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
35	Pavement Message Markings, Thermoplastic, Arrow, 72 in.
36	Pavement Message Markings, Thermoplastic, Lane Indication Arrow
38	Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
40	Parallel Parking Spaces, See Detail
41	Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
43	Line, Thermoplastic, Broken, Yellow, 4 in.
45	Line, Thermoplastic, Solid, White, 6 in.
46	Line, Thermoplastic, Solid, White, 4 in.
47	Line, Thermoplastic, Solid, Yellow, 4 in.
55	Pavement Message Markings, Thermoplastic, Share the Road
56	Sign, Sheet, and Supports, Remove
58	Sign, Sheet, Relocate
59	Sign, Sheet, Remove & Reset
72	Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PA North\...  
 FILE: ...LTSCALE...  
 PLOTTED BY: BOURZ...  
 DATE: ...2016 - 8:16am

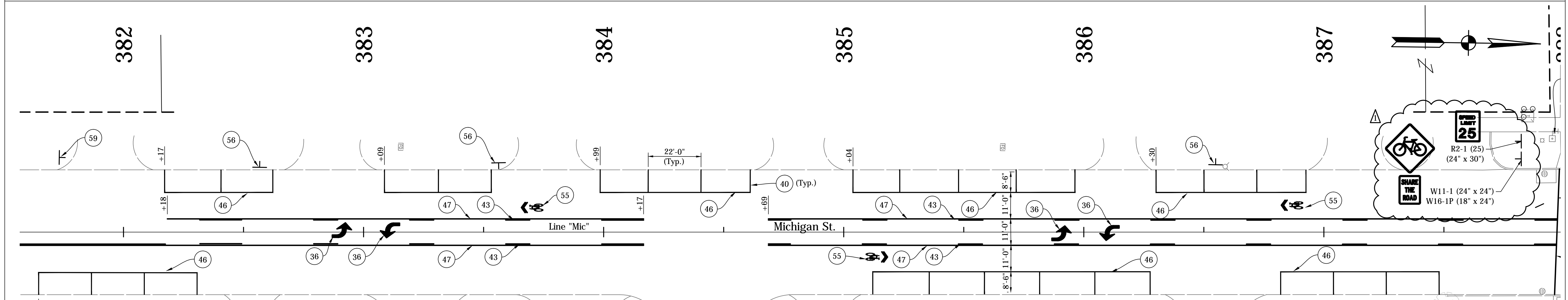
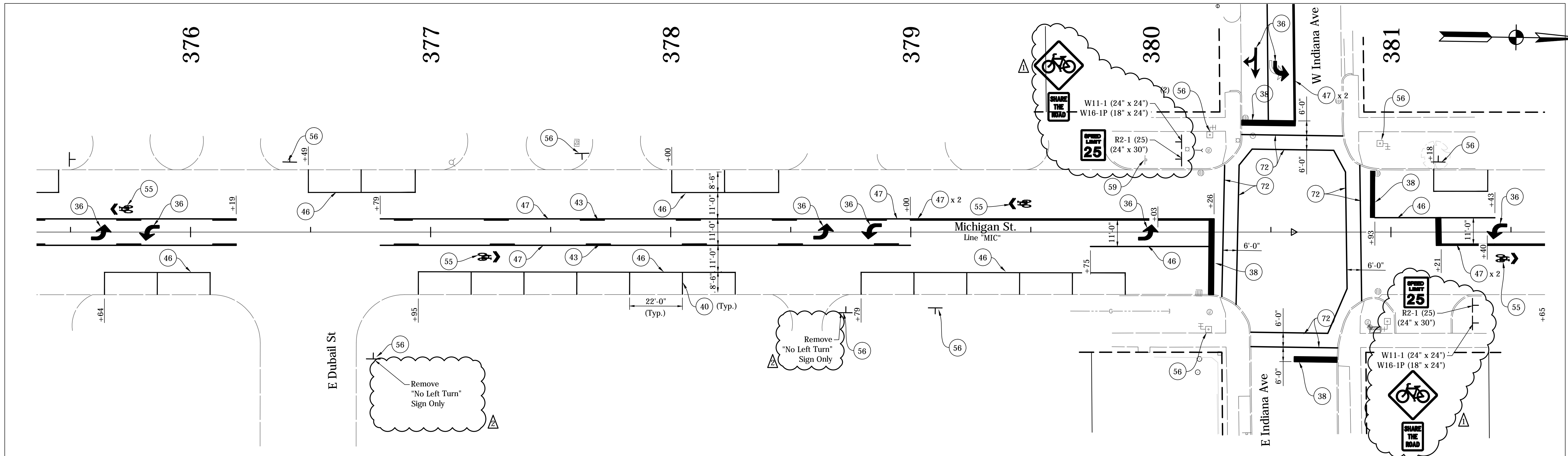
DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Sign



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND  
 PAVEMENT MARKING & SIGNING DETAILS  
 MICHIGAN STREET

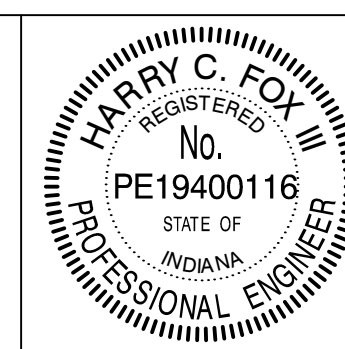
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	196 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MIC", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Sign



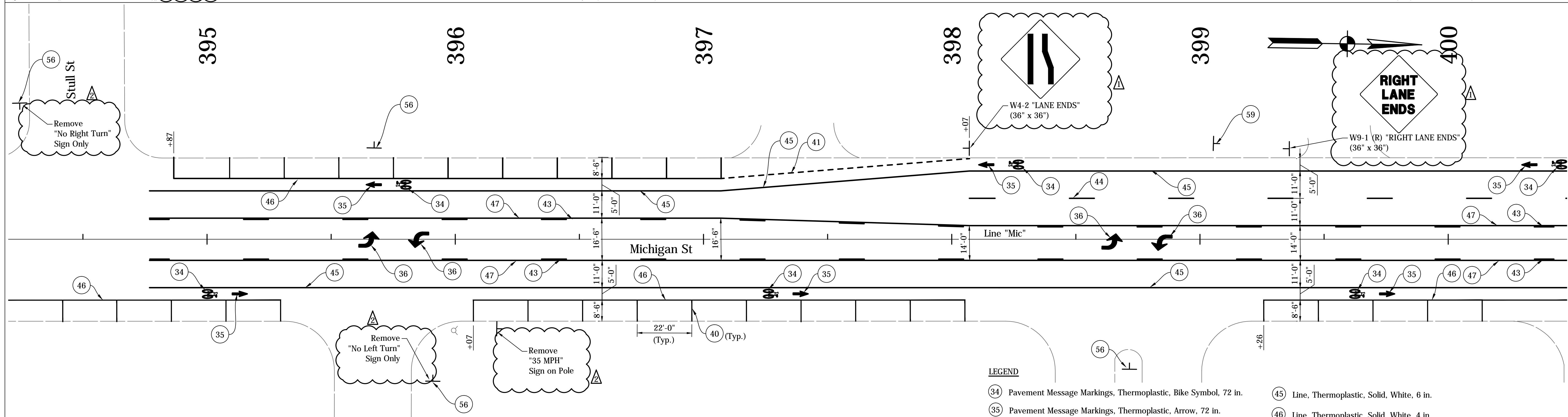
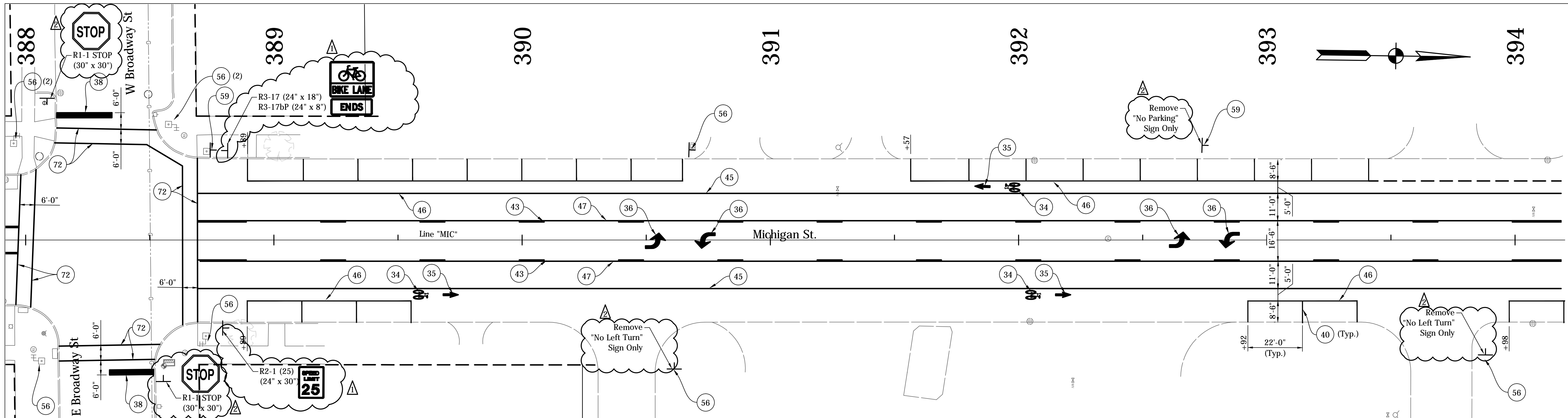
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND  
 PAVEMENT MARKING & SIGNING DETAILS  
 MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	197 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\...  
 FILE: ...15-3329 PM Michigan at north.dwg  
 DIMSCALE: 1"=20'  
 PLOTTED BY: BOURZ  
 DATE: ...-01-29-2016 - 8:16am





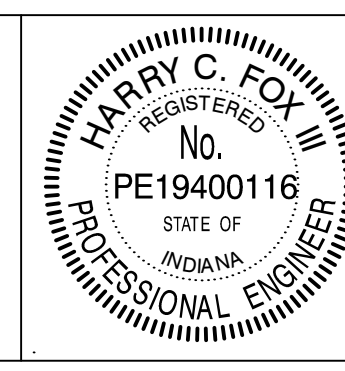
NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 All Stationing Described from Line "MIC", Except as Noted.

**LEGEND**

- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- (40) Parallel Parking Spaces, See Detail
- (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- (43) Line, Thermoplastic, Broken, Yellow, 4 in.
- (44) Line, Thermoplastic, Broken, White, 4 in.
- (45) Line, Thermoplastic, Solid, White, 6 in.
- (46) Line, Thermoplastic, Solid, White, 4 in.
- (47) Line, Thermoplastic, Solid, Yellow, 4 in.
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\...  
 FILE: ...15-3329 PM Michigan at north.dwg  
 DIMSCALE: 1" = 20'  
 PLOTTED BY: bburz...  
 DATE: ...2016 - 8:16am

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Sign

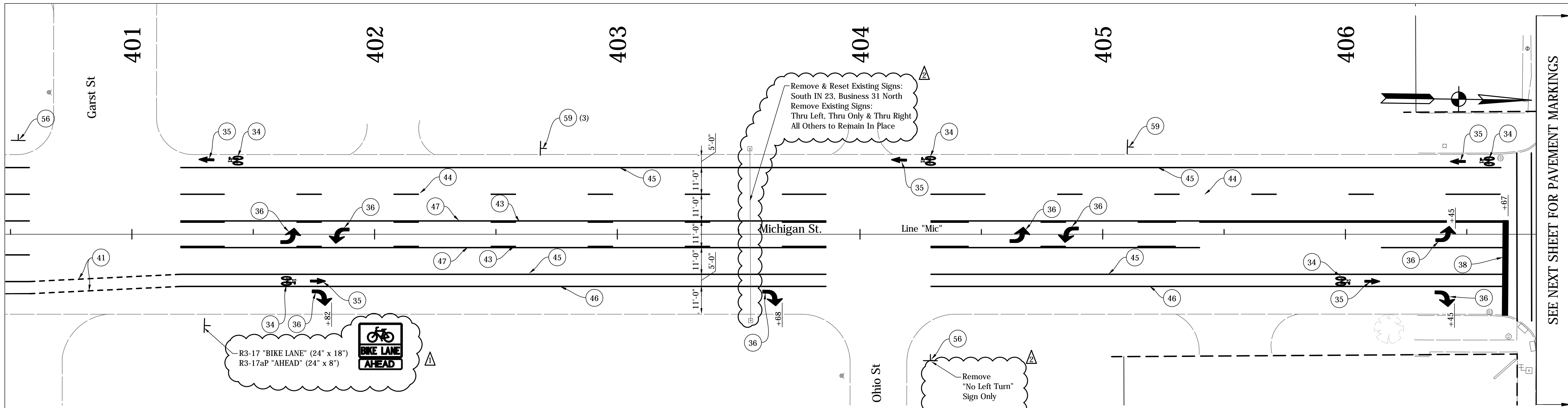


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

**CITY OF SOUTH BEND**  
  
**PAVEMENT MARKING & SIGNING DETAILS**  
**MICHIGAN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	198 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\  
 FILE: .....15-3329 PM Michigan at north.dwg  
 DIMSCALE: 1/8"=1'-0"  
 PLOTTED BY: BOURBON  
 DATE: .....01/29/2016 8:16am



NOTES:

See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

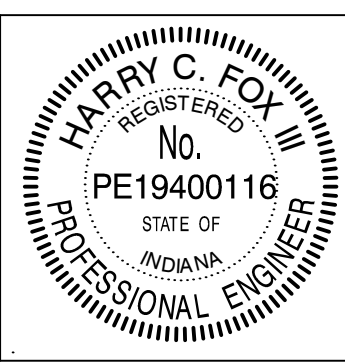
Existing Signs to Remain in Place, Unless Otherwise Noted.

All Stationing Described from Line "MIC", Except as Noted.

**LEGEND**

- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- (40) Parallel Parking Spaces, See Detail
- (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- (43) Line, Thermoplastic, Broken, Yellow, 4 in.
- (44) Line, Thermoplastic, Broken, White, 4 in.
- (45) Line, Thermoplastic, Solid, White, 6 in.
- (46) Line, Thermoplastic, Solid, White, 4 in.
- (47) Line, Thermoplastic, Solid, Yellow, 4 in.
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Sign
1/29/2016	Rev 2: Revise Legend & Add Note to Sign

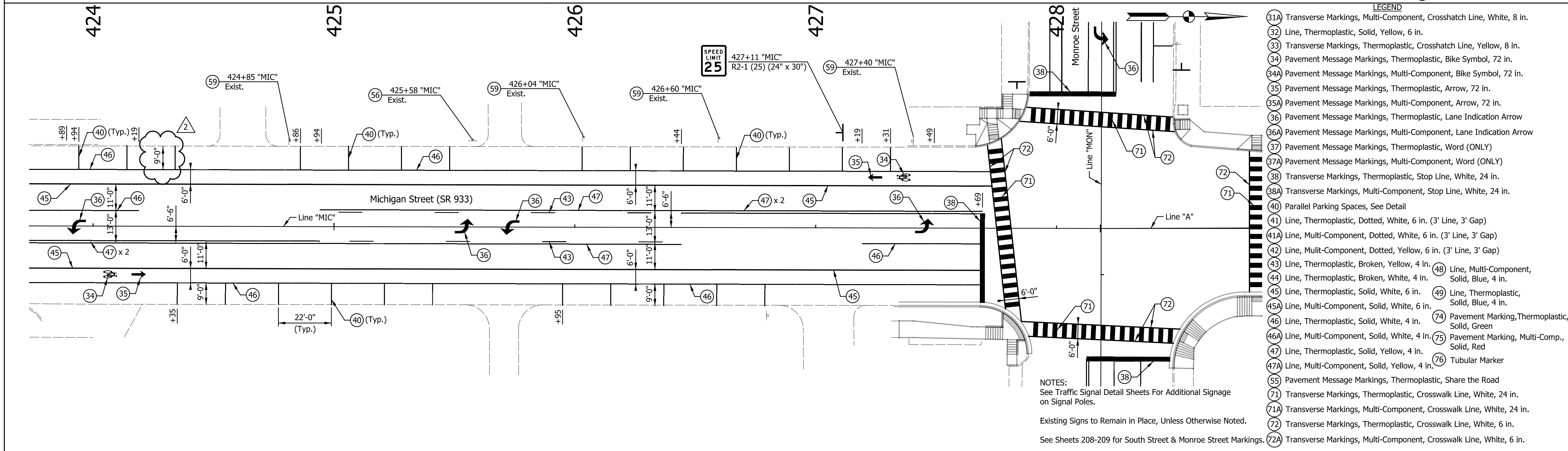
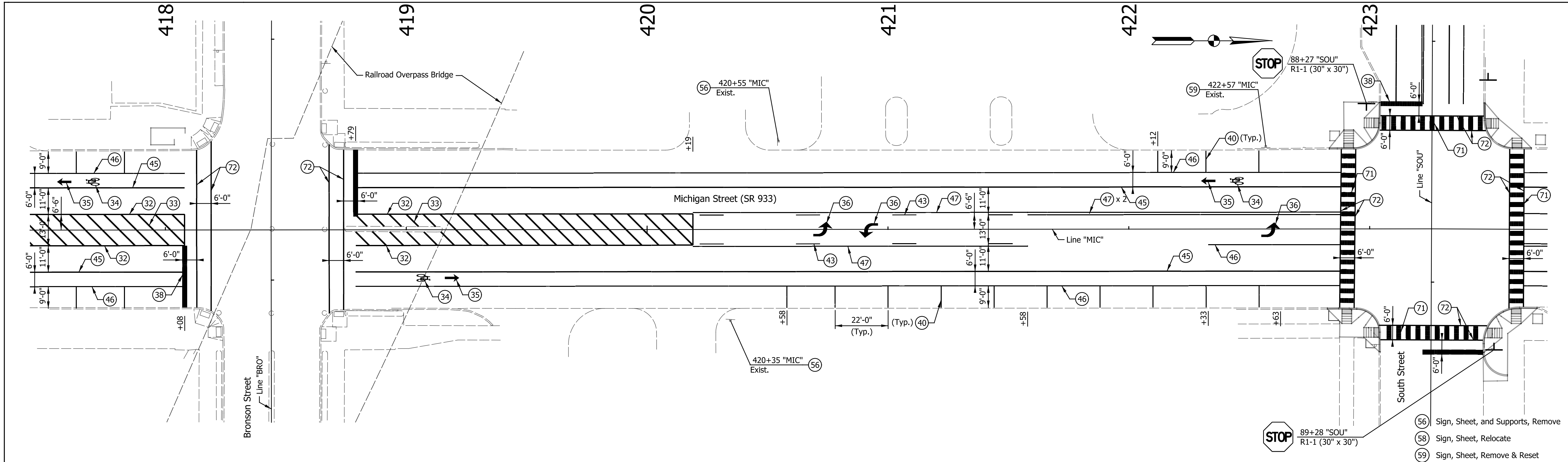


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

**CITY OF SOUTH BEND**  
  
**PAVEMENT MARKING & SIGNING DETAILS**  
**MICHIGAN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	199 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

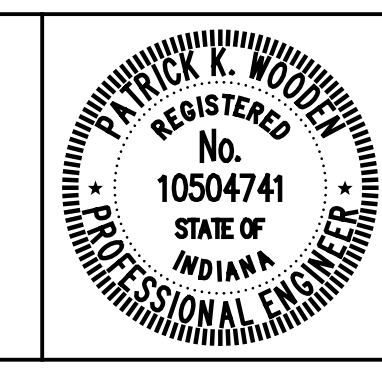
SEE NEXT SHEET FOR PAVEMENT MARKINGS



- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 43A Line, Multi-Component, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 44A Line, Multi-Component, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 48 Line, Multi-Component, Solid, Blue, 4 in.
  - 48A Line, Multi-Component, Solid, Blue, 4 in.
  - 49 Line, Thermoplastic, Solid, Blue, 4 in.
  - 49A Line, Thermoplastic, Solid, Blue, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 56 Sign, Sheet, and Supports, Remove
  - 57 Sign, Sheet, Relocate
  - 58 Sign, Sheet, Remove & Reset
  - 59 Sign, Sheet, Remove & Reset
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - 74 Pavement Marking, Thermoplastic, Solid, Green
  - 74A Pavement Marking, Thermoplastic, Solid, Green
  - 75 Pavement Marking, Multi-Comp., Solid, Red
  - 75A Pavement Marking, Multi-Comp., Solid, Red
  - 76 Tubular Marker
  - 76A Tubular Marker

**NOTES:**  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 See Sheets 208-209 for South Street & Monroe Street Markings.  
 All Stationing Described from Line "MIC", Except as Noted.

DATE	REVISION
1/29/2016	REV 2: Revised Markings



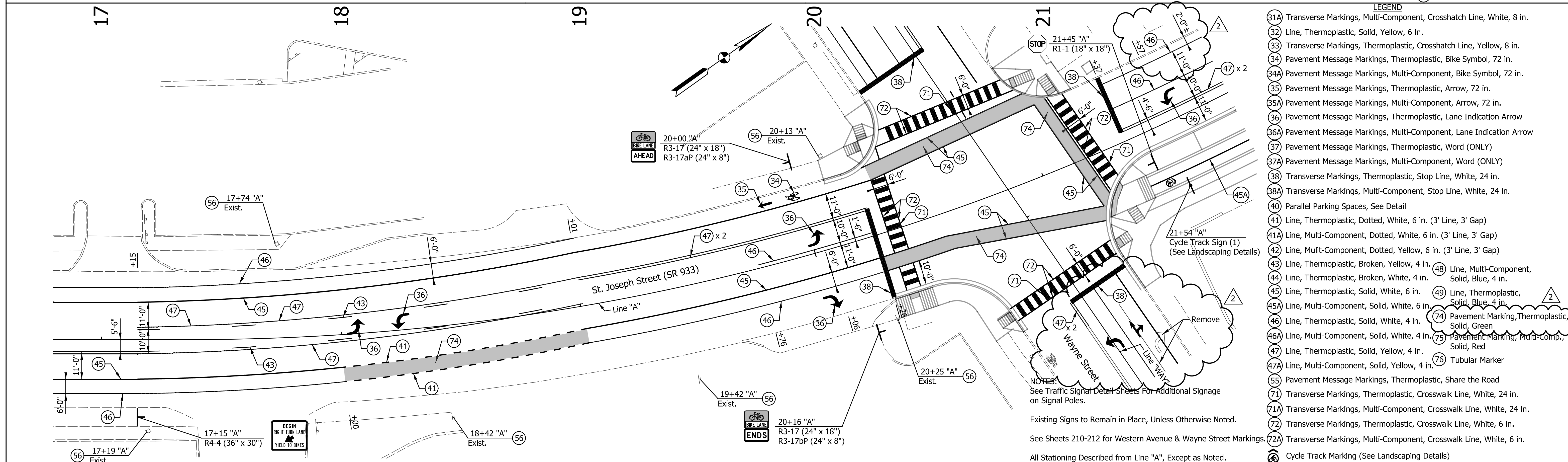
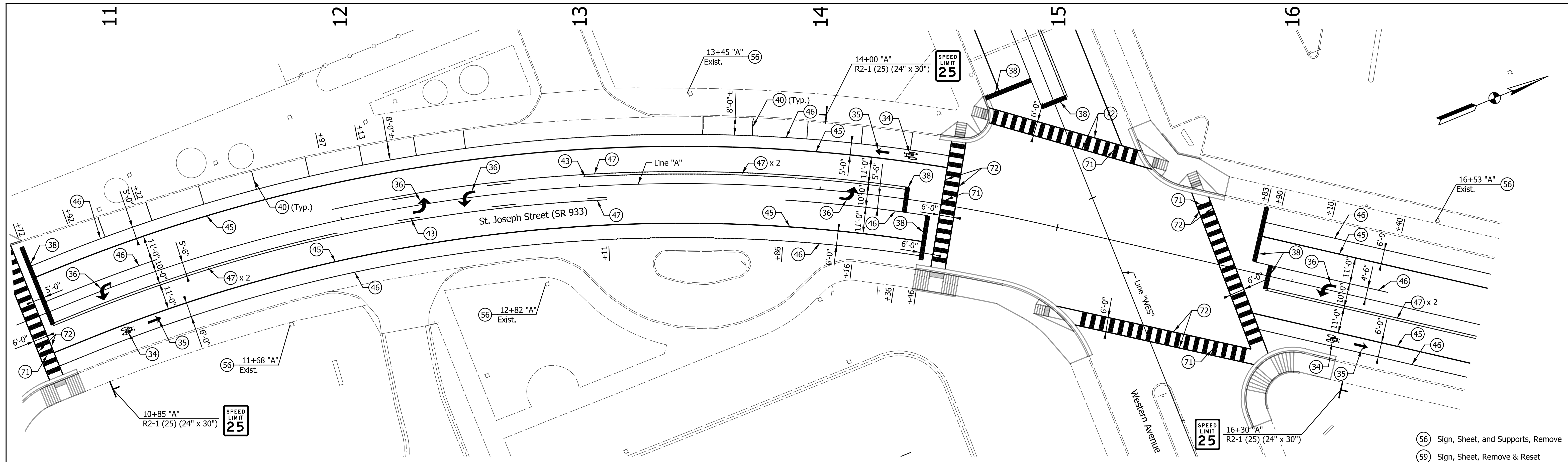
RECOMMENDED FOR APPROVAL: *Patrick Woodson*  
 DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND  
**PAVEMENT MARKING & SIGNING DETAILS**  
 MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	201 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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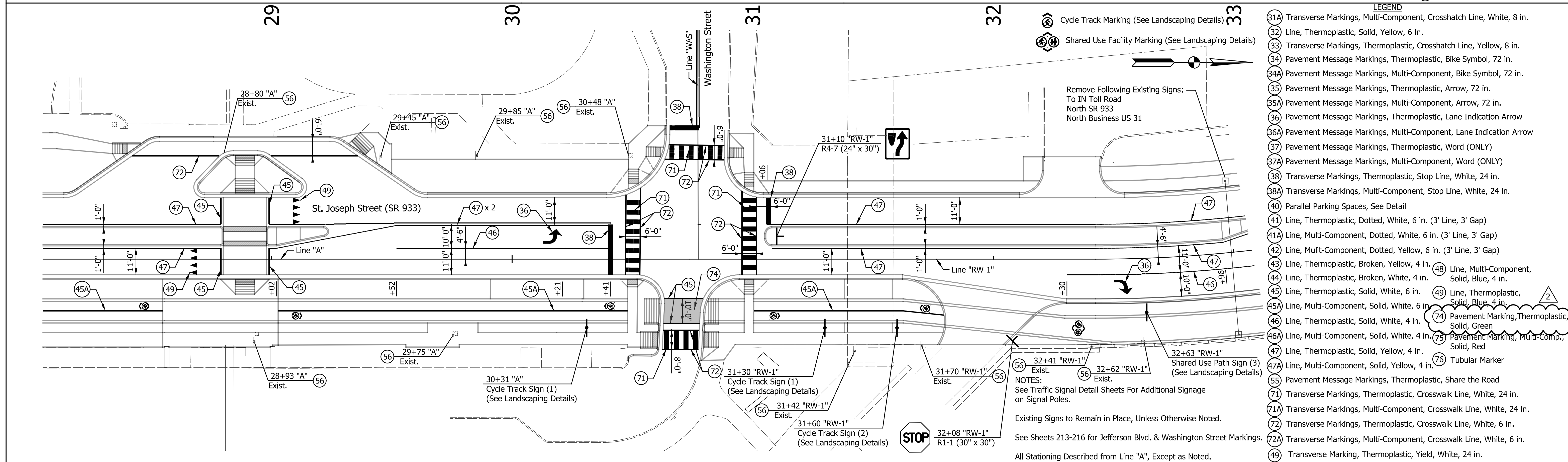
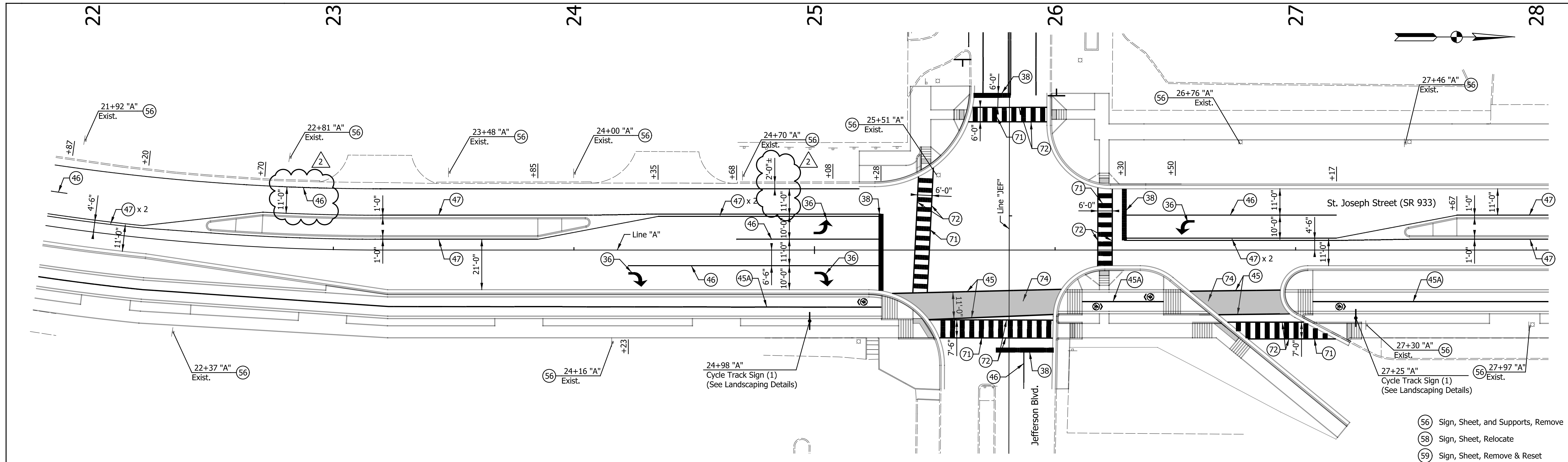
DATE	REVISION
1/29/2016	REV 2: Revised Lane Configuration

RECOMMENDED FOR APPROVAL: *Patrick Woodman* DESIGN ENGINEER 1/7/2016 DATE  
 DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND  
**PAVEMENT MARKING & SIGNING DETAILS**  
**ST. JOSEPH STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	202 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

1/29/2016 8:56:45 AM P:\2014\101351\Drawings\201401351.RD.PM.ST30.01.dgn



- LEGEND**
- (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (47A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49A) Line, Thermoplastic, Solid, Blue, 4 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (49) Transverse Marking, Thermoplastic, Yield, White, 24 in.

DATE	REVISION
1/29/2016	REV 2: Revised Markings

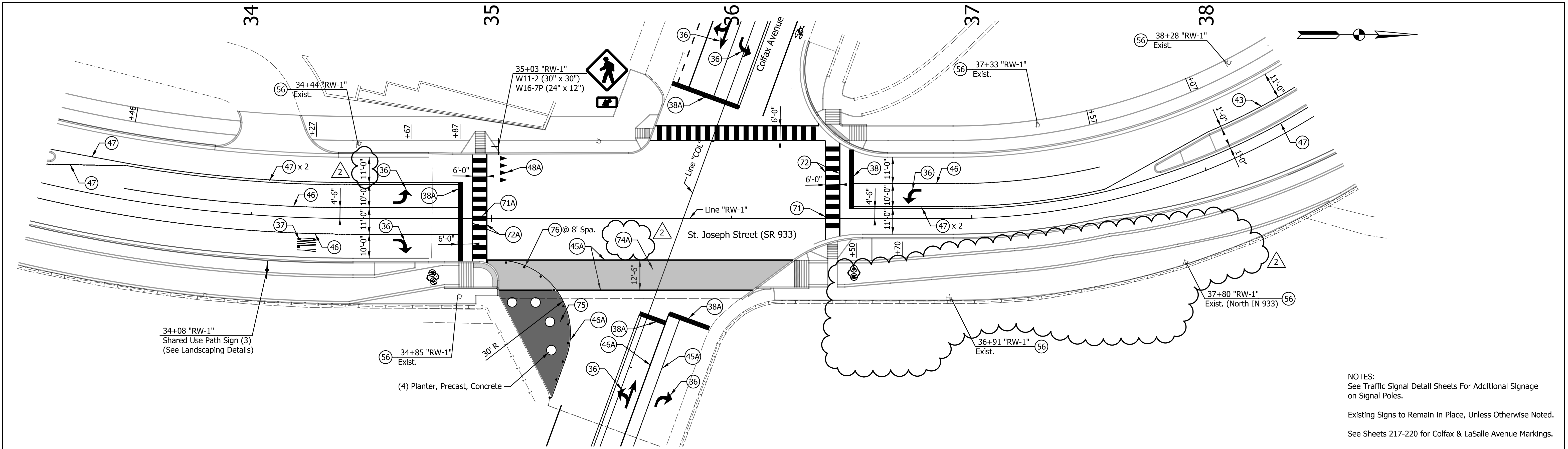
REGISTERED PROFESSIONAL ENGINEER  
 No. 10504741  
 STATE OF INDIANA

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

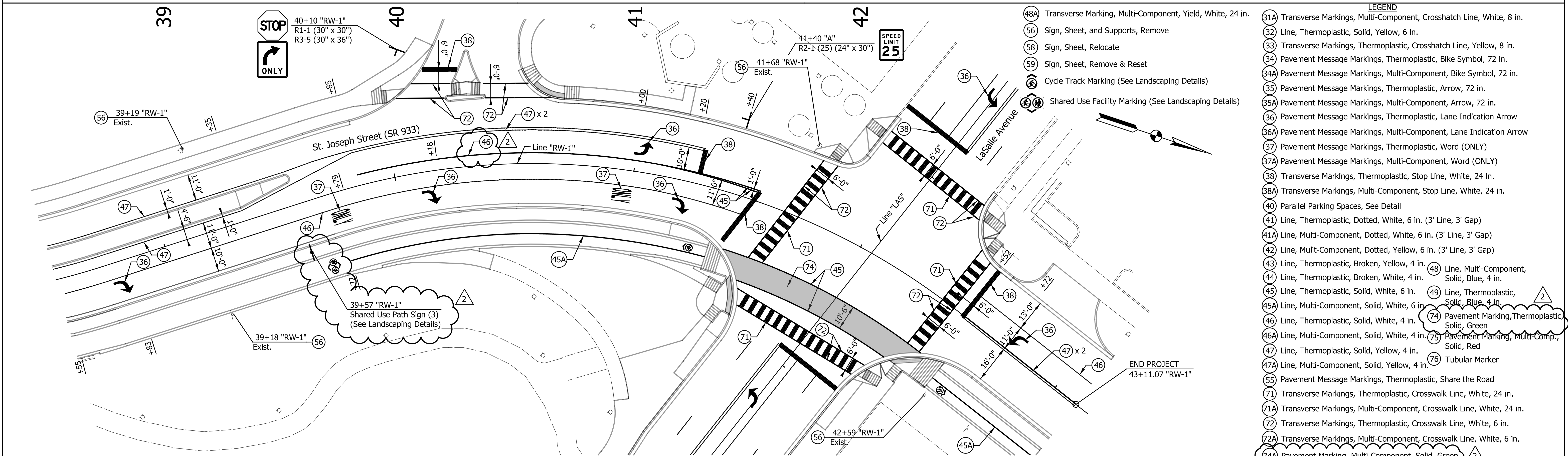
CITY OF SOUTH BEND  
 PAVEMENT MARKING & SIGNING DETAILS  
 ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	203 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain In Place, Unless Otherwise Noted.  
 See Sheets 217-220 for Colfax & LaSalle Avenue Markings.  
 All Stationing Described from Line "RW-1", Except as Noted.



- LEGEND**
- (48A) Transverse Marking, Multi-Component, Yield, White, 24 in.
  - (56) Sign, Sheet, and Supports, Remove
  - (58) Sign, Sheet, Relocate
  - (59) Sign, Sheet, Remove & Reset
  - (60) Cycle Track Marking (See Landscaping Details)
  - (61) Shared Use Facility Marking (See Landscaping Details)
  - (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (46) Line, Multi-Component, Solid, White, 6 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (50) Line, Thermoplastic, Solid, Blue, 4 in.
  - (51) Line, Thermoplastic, Solid, Blue, 4 in.
  - (52) Line, Thermoplastic, Solid, Blue, 4 in.
  - (53) Line, Thermoplastic, Solid, Blue, 4 in.
  - (54) Line, Thermoplastic, Solid, Blue, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (74) Pavement Marking, Multi-Component, Solid, Green
  - (75) Pavement Marking, Multi-Component, Solid, Red
  - (76) Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Markings

REGISTERED  
 No.  
**10504741**  
 STATE OF  
 INDIANA  
 PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: *Patrick Woodson* DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

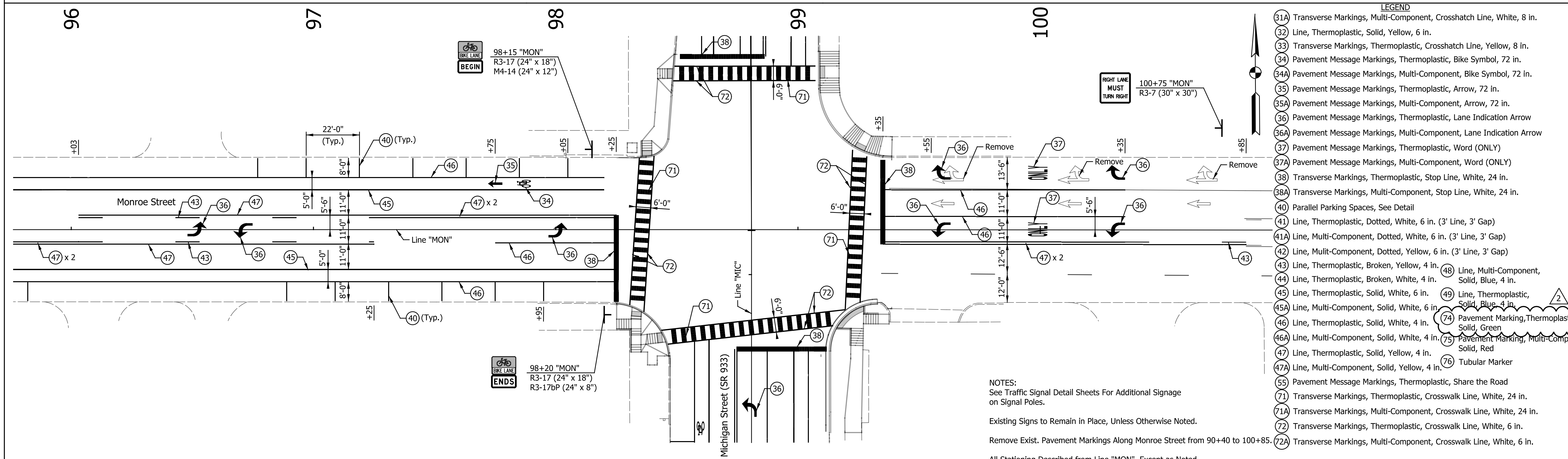
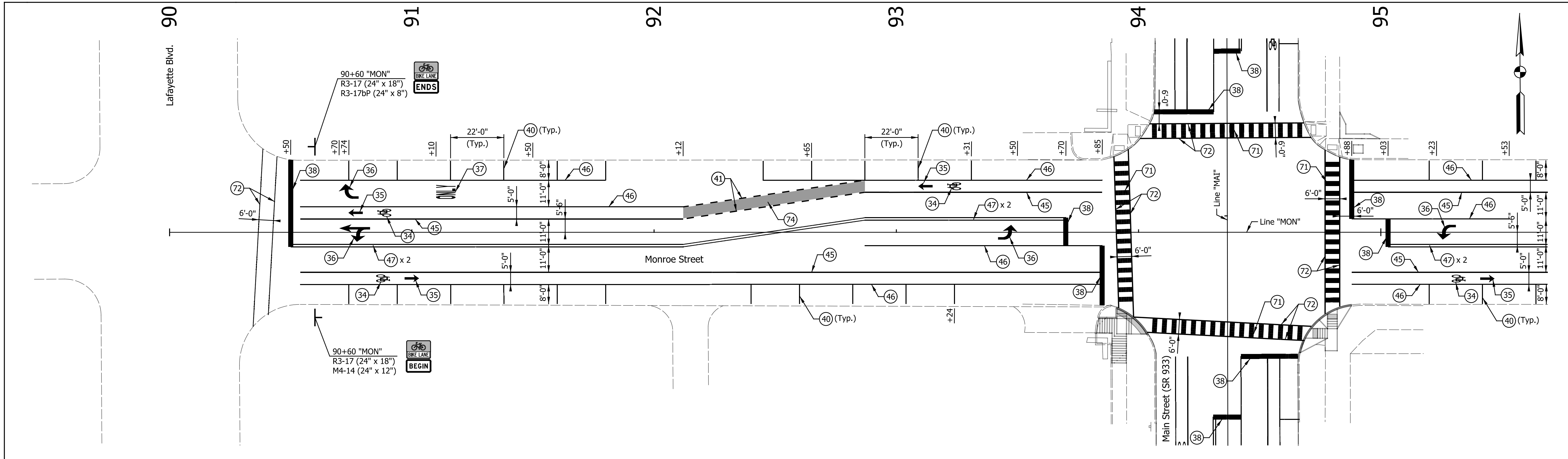
CITY OF SOUTH BEND

**PAVEMENT MARKING & SIGNING DETAILS**

ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	204 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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 201401351\_3.mde.dwg



- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Multi-Component, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (44A) Line, Multi-Component, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (48A) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Red
  - (49A) Line, Multi-Component, Solid, Red
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.

**NOTES:**  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Monroe Street from 90+40 to 100+85.  
 All Stationing Described from Line "MON", Except as Noted.

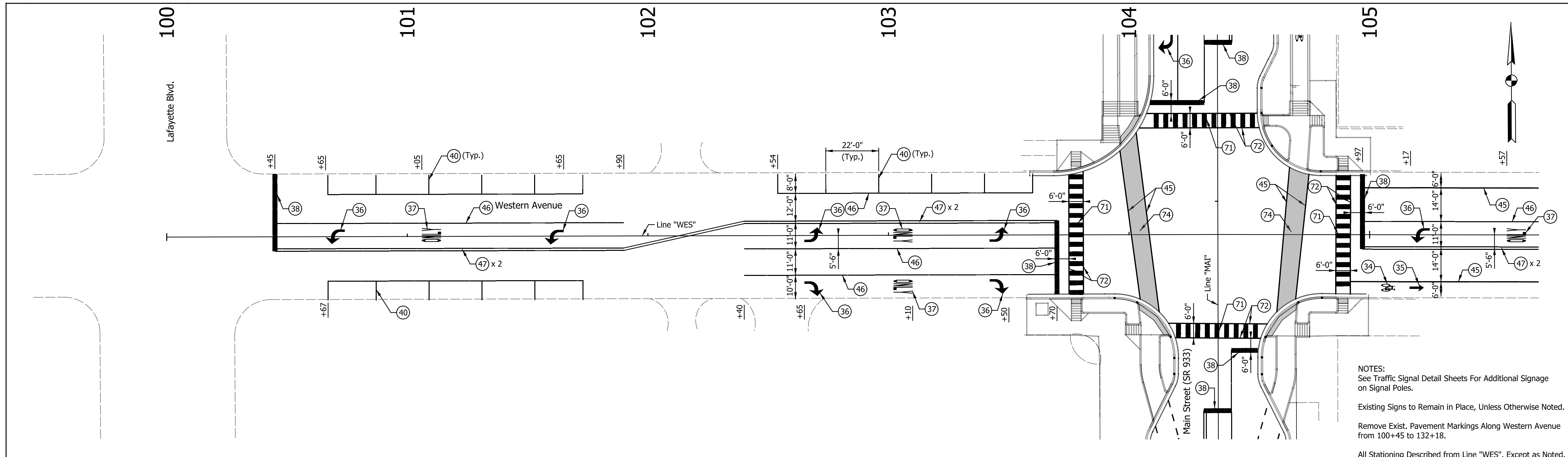
DATE	REVISION
1/29/2016	REV 2: Revised Legend

RECOMMENDED FOR APPROVAL: *Patrick Woodson* DESIGN ENGINEER DATE: 1/7/2016  
 DESIGNED: MRR DRAWN: JRG  
 CHECKED: PKW CHECKED: PKW

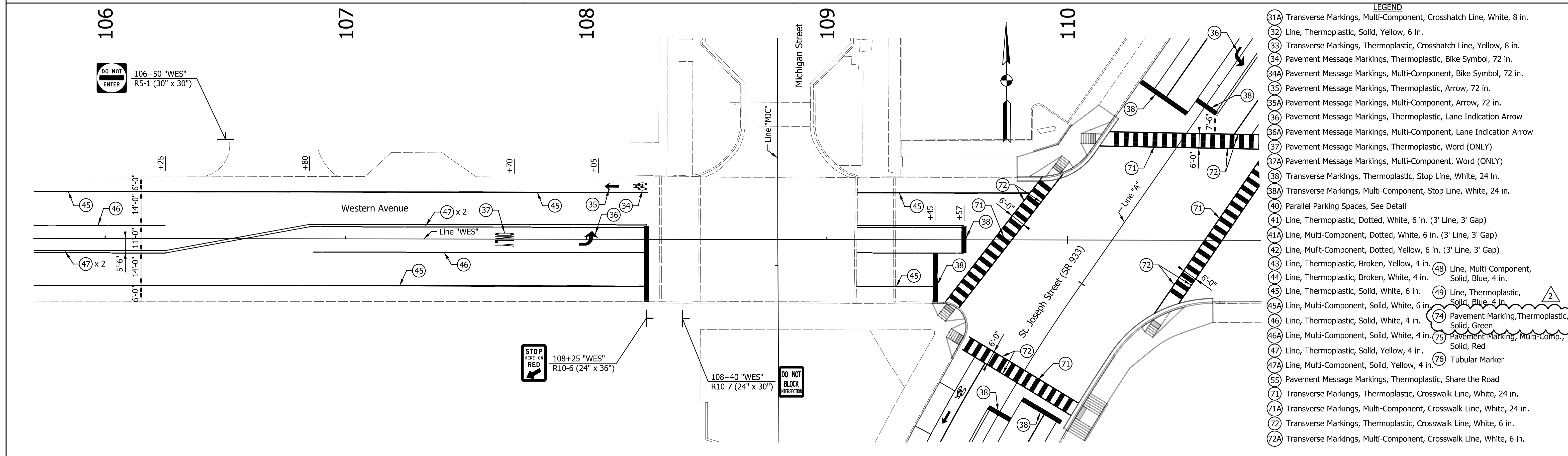
CITY OF SOUTH BEND  
**PAVEMENT MARKING & SIGNING DETAILS**  
**MONROE STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	209 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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NOTES:  
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
Existing Signs to Remain in Place, Unless Otherwise Noted.  
Remove Exist. Pavement Markings Along Western Avenue from 100+45 to 132+18.  
All Stationing Described from Line "WES", Except as Noted.



- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - 48 Line, Multi-Component, Solid, Blue, 4 in.
  - 49 Line, Thermoplastic, Solid, Blue, 4 in.
  - 74 Pavement Marking, Thermoplastic, Solid, Green
  - 75 Pavement Marking, Multi-Comp., Solid, Red
  - 76 Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Legend

DO NOT ENTER

106+50 "WES"  
R5-1 (30" x 30")

STOP HERE ON RED

108+25 "WES"  
R10-6 (24" x 36")

DO NOT BLOCK INTERSECTION

108+40 "WES"  
R10-7 (24" x 30")

RECOMMENDED FOR APPROVAL: *Patrick Woodson* DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

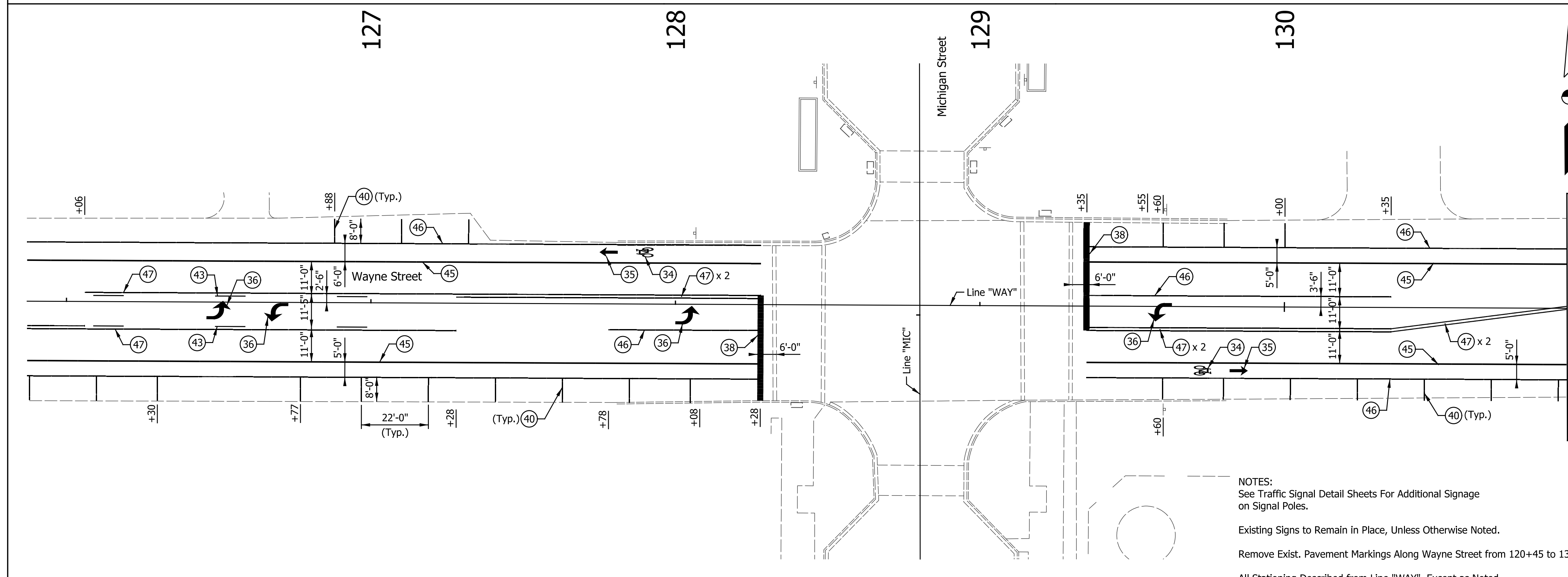
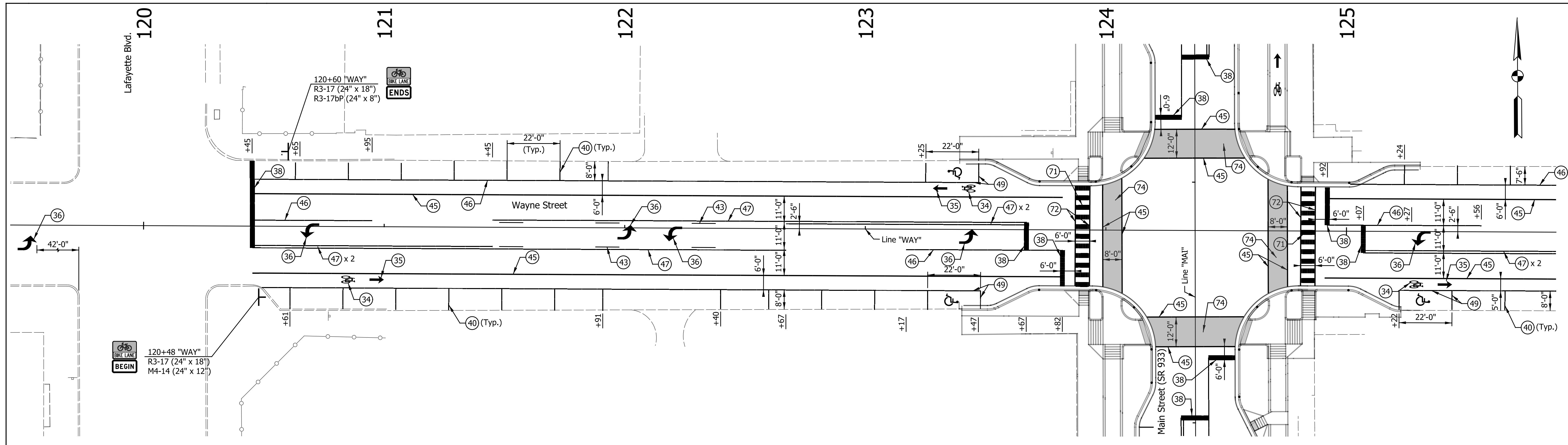
PAVEMENT MARKING & SIGNING DETAILS

WESTERN AVENUE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	210 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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 20160131\_15:46:41





♿ Pavement Message Markings, Thermoplastic, Blue, Handicap Symbol

- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Thermoplastic, Broken, White, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49A) Line, Thermoplastic, Solid, Blue, 4 in.
  - (50) Line, Thermoplastic, Solid, Blue, 4 in.
  - (50A) Line, Multi-Component, Solid, Blue, 4 in.
  - (51) Line, Thermoplastic, Solid, Blue, 4 in.
  - (51A) Line, Multi-Component, Solid, Blue, 4 in.
  - (52) Line, Thermoplastic, Solid, Blue, 4 in.
  - (52A) Line, Multi-Component, Solid, Blue, 4 in.
  - (53) Line, Thermoplastic, Solid, Blue, 4 in.
  - (53A) Line, Multi-Component, Solid, Blue, 4 in.
  - (54) Line, Thermoplastic, Solid, Blue, 4 in.
  - (54A) Line, Multi-Component, Solid, Blue, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (73) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (73A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (74A) Pavement Marking, Thermoplastic, Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (75A) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker

**NOTES:**  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Wayne Street from 120+45 to 132+18.  
 All Stationing Described from Line "WAY", Except as Noted.

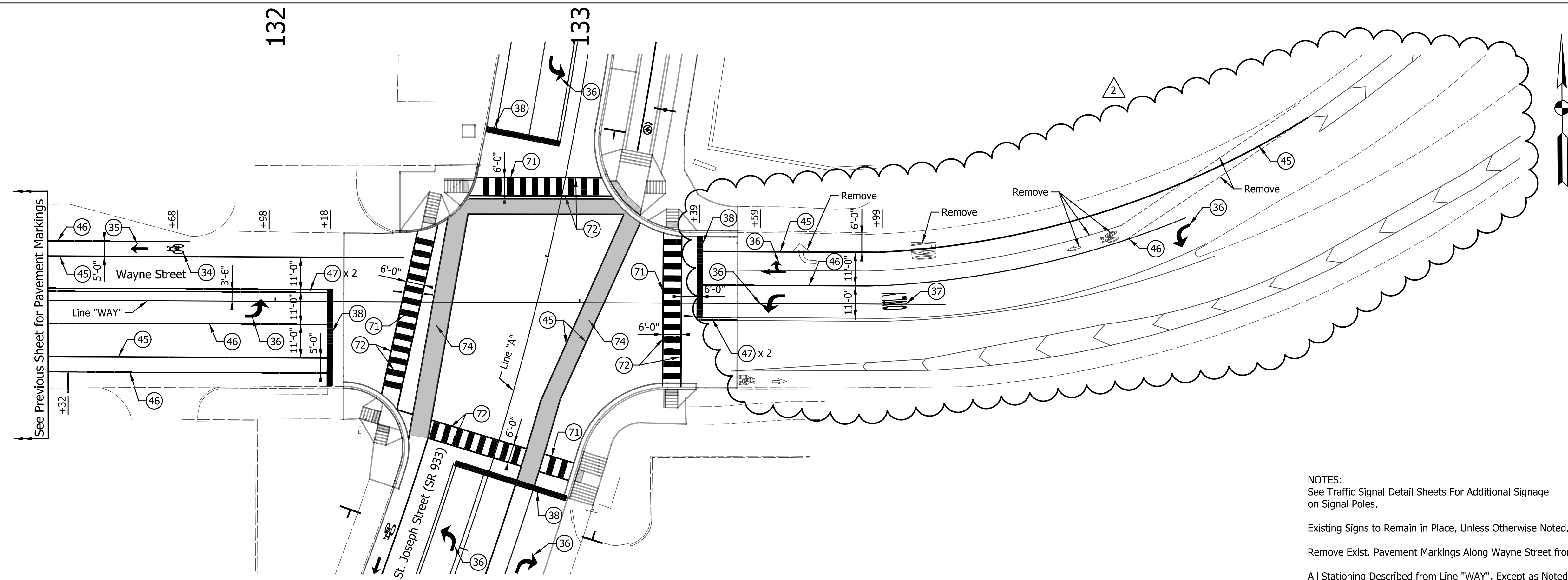
DATE	REVISION
1/29/2016	REV 2: Revised Legend

RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER DATE 1/7/2016
DESIGNED: MRR	DRAWN: JRG
CHECKED: PKW	CHECKED: PKW

<b>CITY OF SOUTH BEND</b>	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> <b>WAYNE STREET</b>	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	211 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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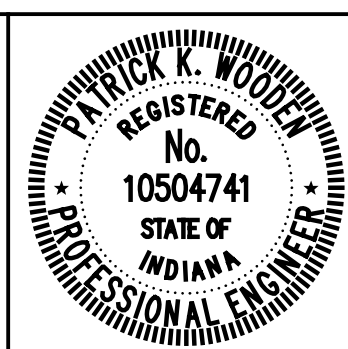


NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Wayne Street from 120+45 to 132+18.  
 All Stationing Described from Line "WAY", Except as Noted.

**LEGEND**

- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
- 32 Line, Thermoplastic, Solid, Yellow, 6 in.
- 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
- 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
- 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
- 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
- 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
- 37A Pavement Message Markings, Multi-Component, Word (ONLY)
- 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
- 40 Parallel Parking Spaces, See Detail
- 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
- 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
- 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
- 43 Line, Thermoplastic, Broken, Yellow, 4 in.
- 44 Line, Thermoplastic, Broken, White, 4 in.
- 45 Line, Thermoplastic, Solid, White, 6 in.
- 45A Line, Multi-Component, Solid, White, 6 in.
- 46 Line, Thermoplastic, Solid, White, 4 in.
- 46A Line, Multi-Component, Solid, White, 4 in.
- 47 Line, Thermoplastic, Solid, Yellow, 4 in.
- 47A Line, Multi-Component, Solid, Yellow, 4 in.
- 55 Pavement Message Markings, Thermoplastic, Share the Road
- 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
- 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
- 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
- 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
- 39 Line, Thermoplastic, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
- 48 Line, Multi-Component, Solid, Blue, 4 in.
- 49 Line, Thermoplastic, Solid, Blue, 4 in.
- 74 Pavement Marking, Thermoplastic, Solid, Green
- 75 Pavement Marking, Multi-Comp., Solid, Red
- 76 Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Lane Configuration & Legend

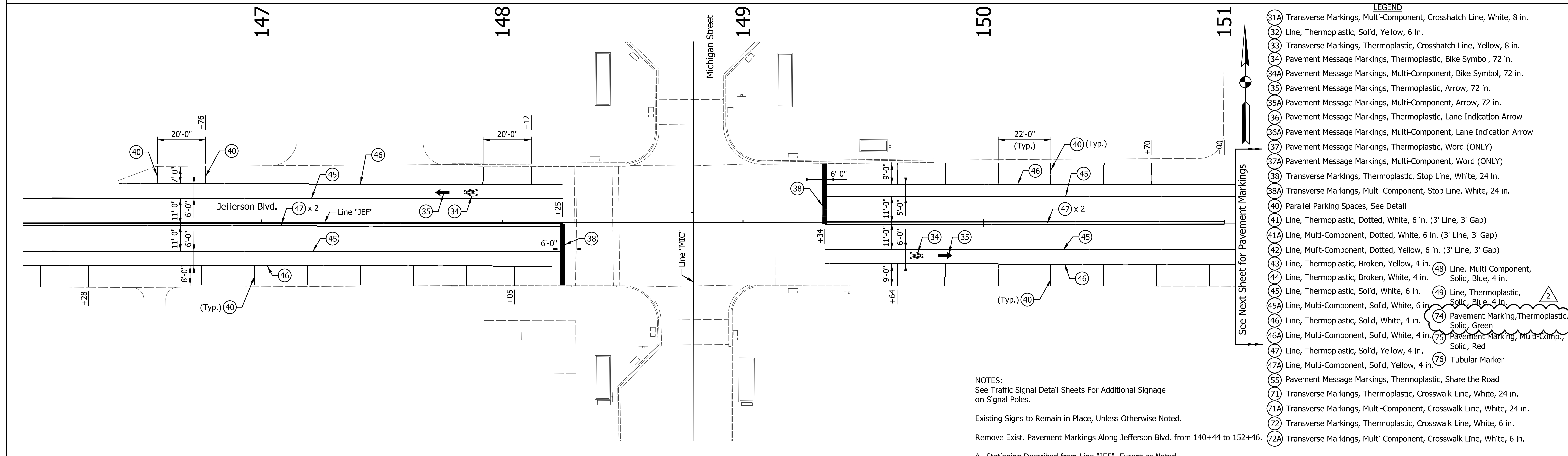
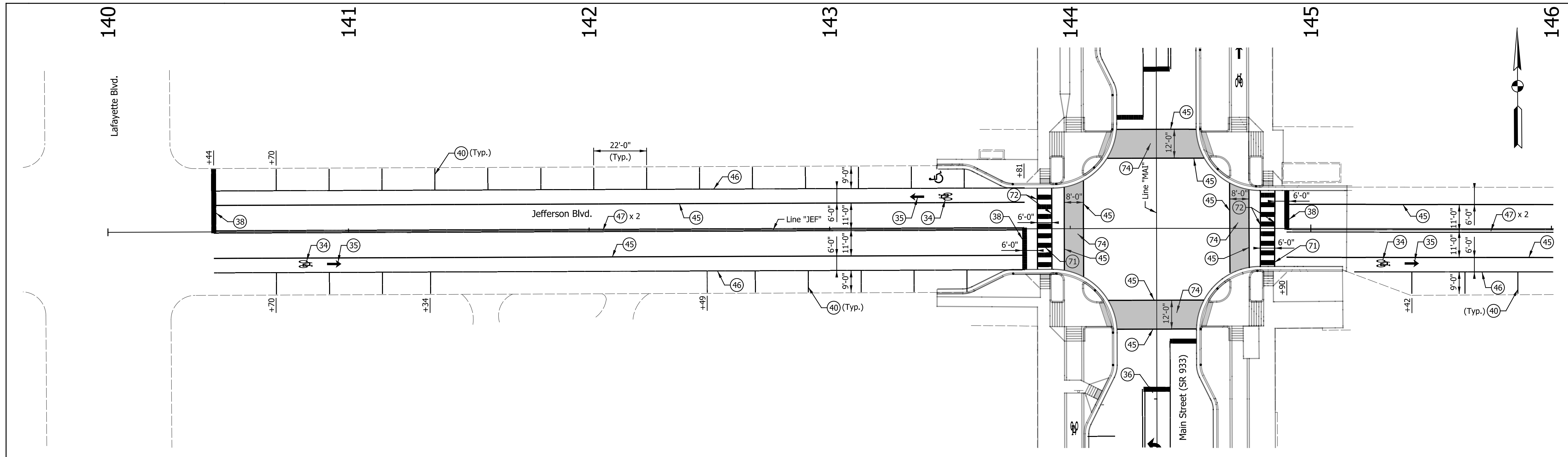


RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND  
 PAVEMENT MARKING & SIGNING DETAILS  
 WAYNE STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	212 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Multi-Component, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (44A) Line, Multi-Component, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (49A) Line, Multi-Component, Solid, Blue, 4 in.
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (74A) Pavement Marking, Multi-Comp., Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker
  - (55) Pavement Message Markings, Thermoplastic, Share the Road

NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Jefferson Blvd. from 140+44 to 152+46.  
 All Stationing Described from Line "JEF", Except as Noted.

DATE	REVISION
1/29/2016	REV 2: Revised Legend



RECOMMENDED FOR APPROVAL: *Patrick Wooden* DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

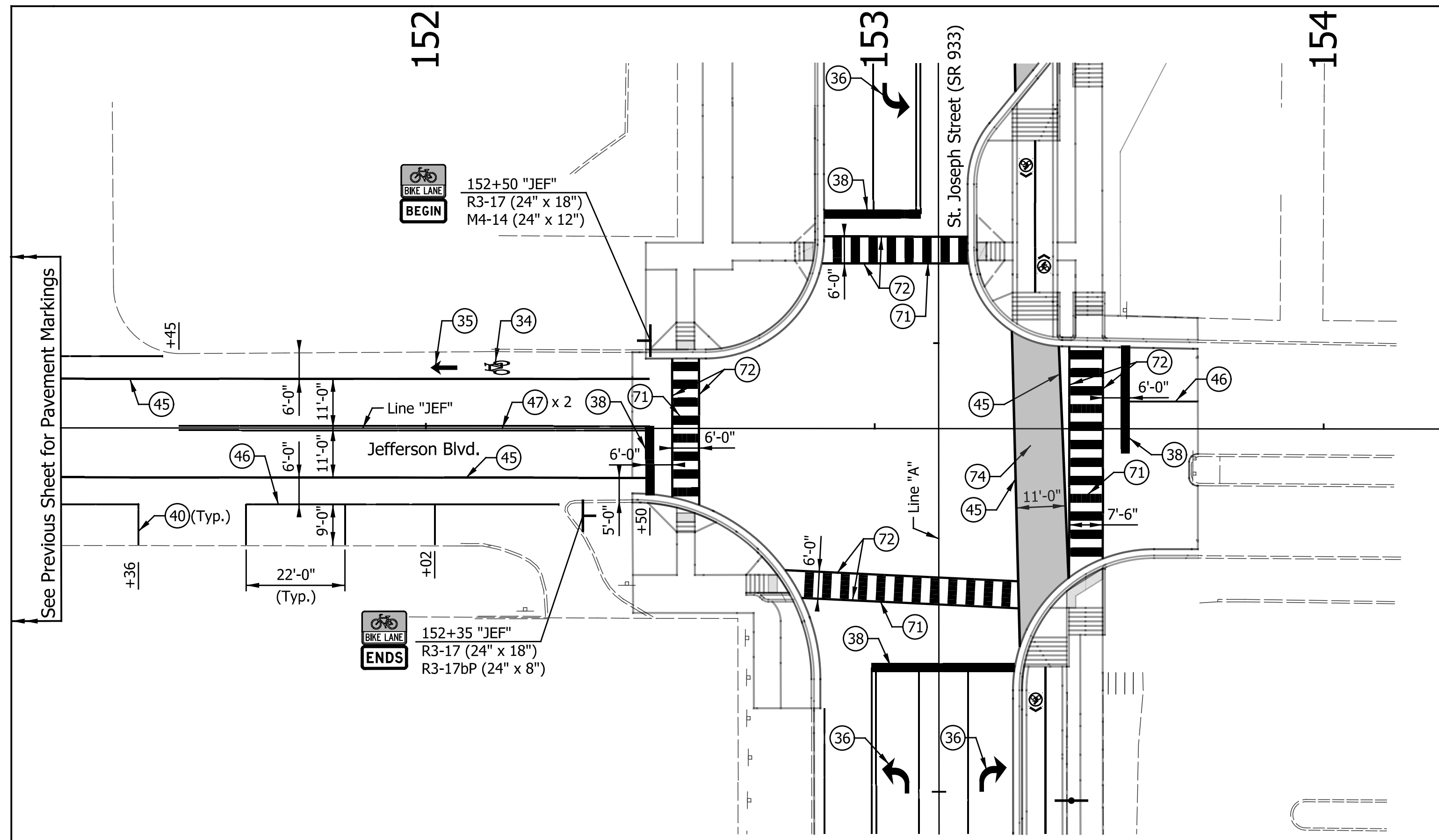
CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS

JEFFERSON BOULEVARD

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	213 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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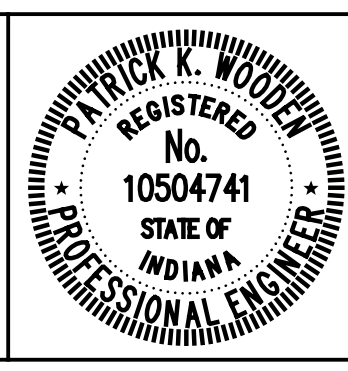


See Previous Sheet for Pavement Markings

**NOTES:**  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Jefferson Blvd. from 140+44 to 152+46.  
 All Stationing Described from Line "JEF", Except as Noted.

- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Legend



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

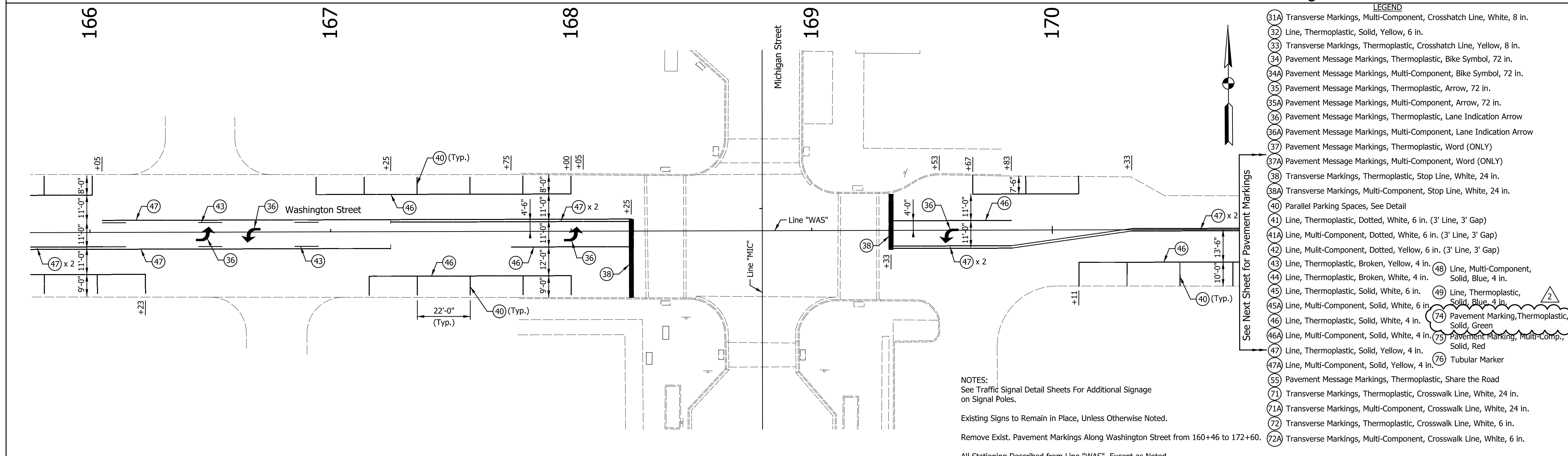
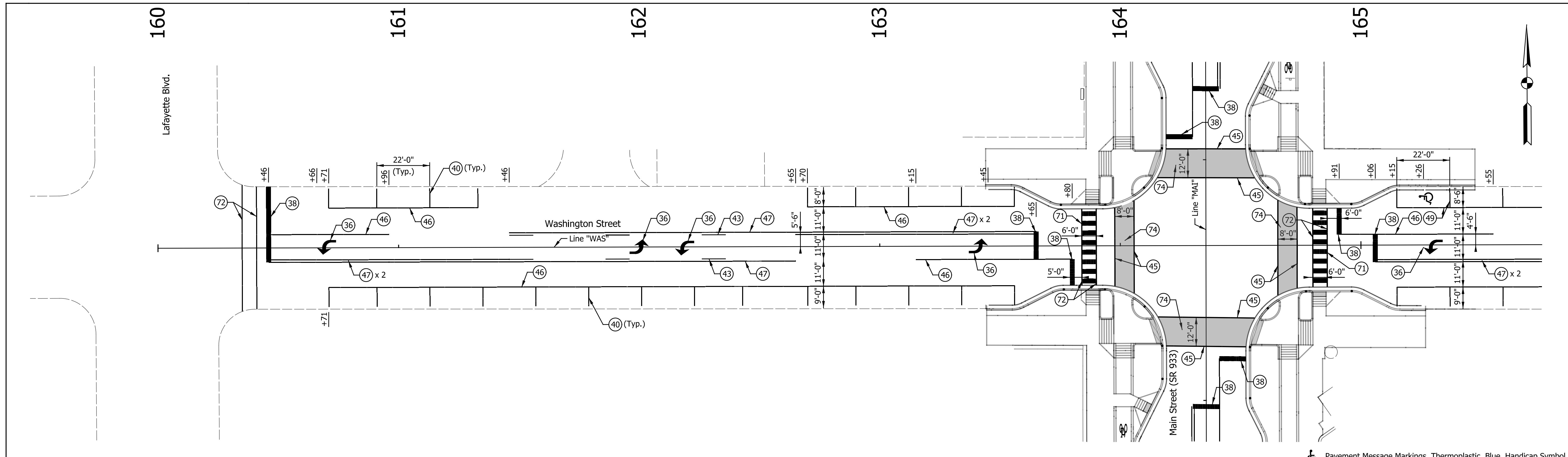
CITY OF SOUTH BEND

**PAVEMENT MARKING & SIGNING DETAILS**


**JEFFERSON BOULEVARD**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	214 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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DATE	REVISION
1/29/2016	REV 2: Revised Legend



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

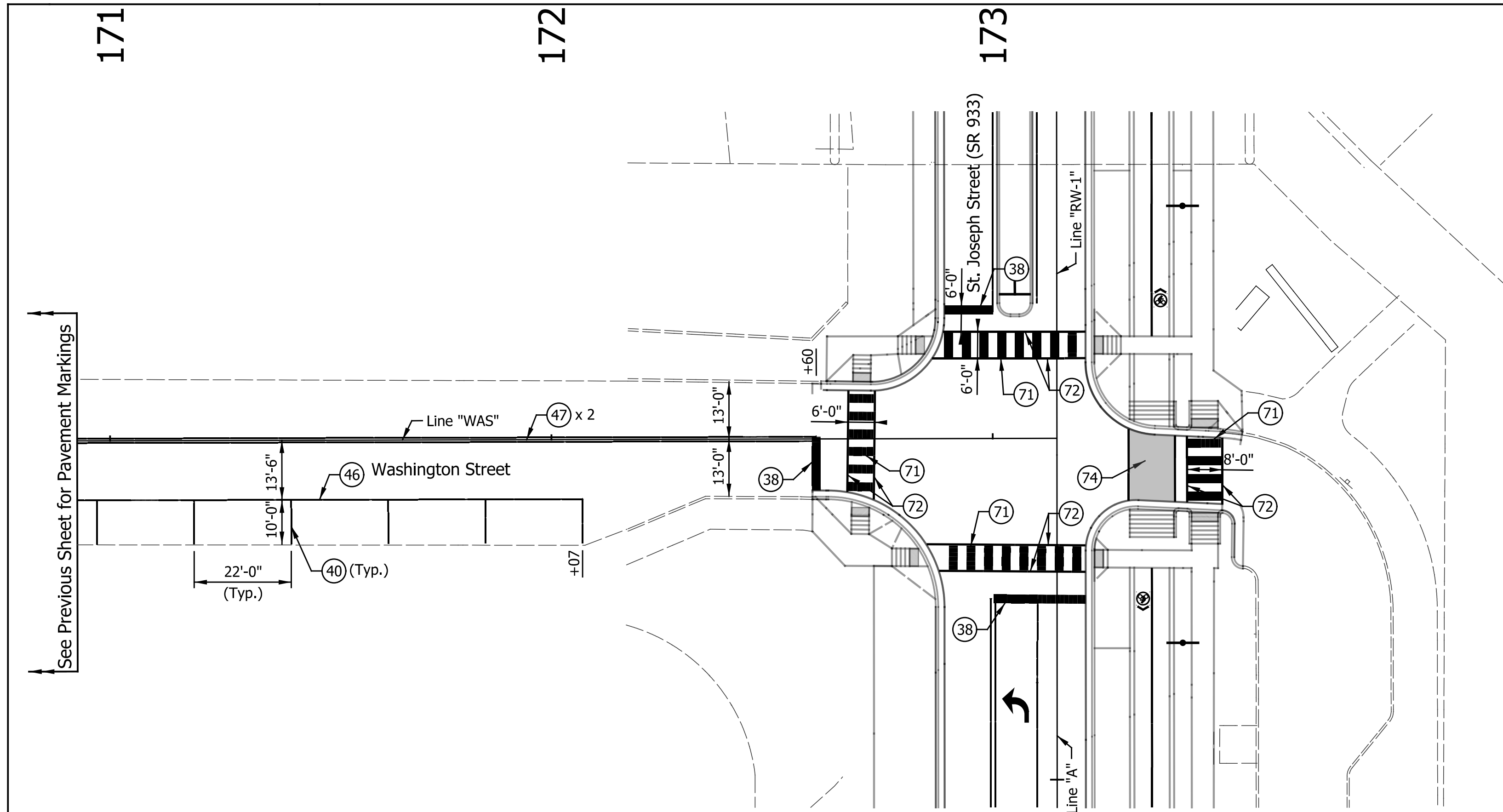
**CITY OF SOUTH BEND**  
**PAVEMENT MARKING & SIGNING DETAILS**  
**WASHINGTON STREET**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	215 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (43A) Line, Thermoplastic, Broken, White, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (48) Line, Multi-Component, Solid, Blue, 4 in.
  - (49) Line, Thermoplastic, Solid, Blue, 4 in.
  - (50) Line, Thermoplastic, Solid, Green, 4 in.
  - (51) Line, Thermoplastic, Solid, Red, 4 in.
  - (52) Line, Thermoplastic, Solid, Red, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
- See Next Sheet for Pavement Markings

NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Washington Street from 160+46 to 172+60.  
 All Stationing Described from Line "WAS", Except as Noted.

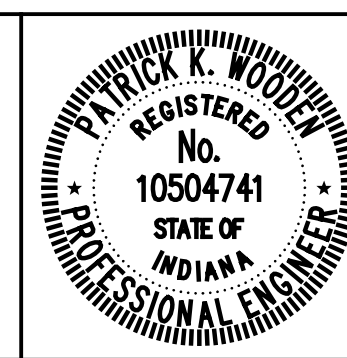
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NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Washington Street from 160+46 to 172+60.  
 All Stationing Described from Line "WAS", Except as Noted.

- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 48 Line, Multi-Component, Solid, Blue, 4 in.
  - 49 Line, Thermoplastic, Solid, Blue, 4 in.
  - 50 Line, Thermoplastic, Solid, Green, 4 in.
  - 50A Line, Multi-Component, Solid, Green, 4 in.
  - 51 Line, Thermoplastic, Solid, Red, 4 in.
  - 51A Line, Multi-Component, Solid, Red, 4 in.
  - 52 Line, Thermoplastic, Solid, Red, 4 in.
  - 52A Line, Multi-Component, Solid, Red, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.

DATE	REVISION
1/29/2016	REV 2: Revised Legend

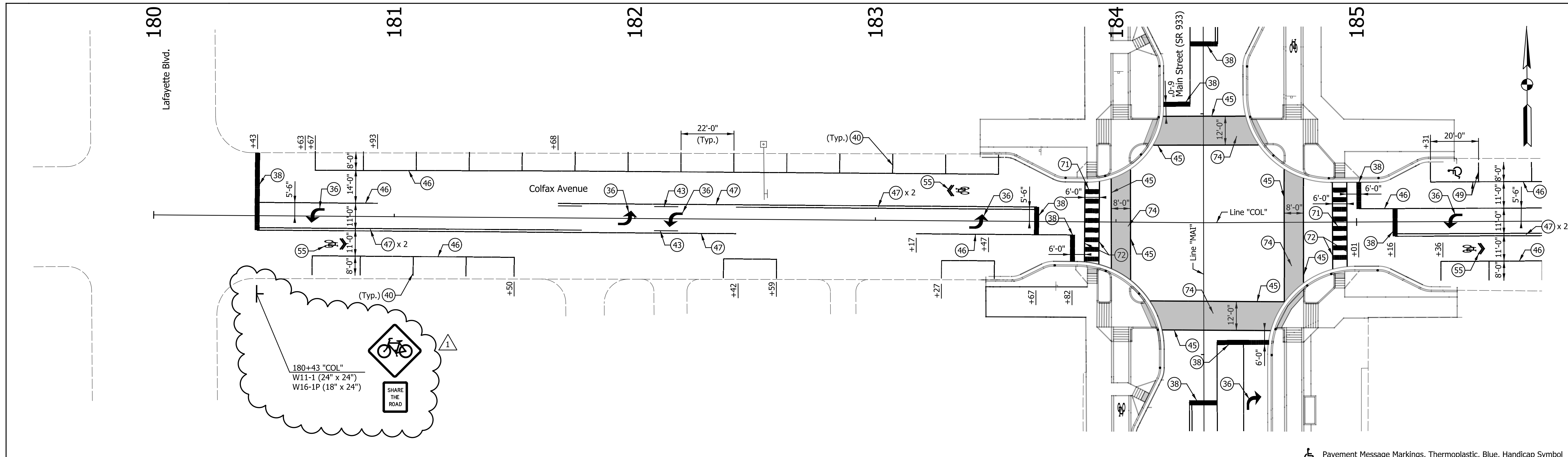


RECOMMENDED FOR APPROVAL	<i>Patrick R. Wooden</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

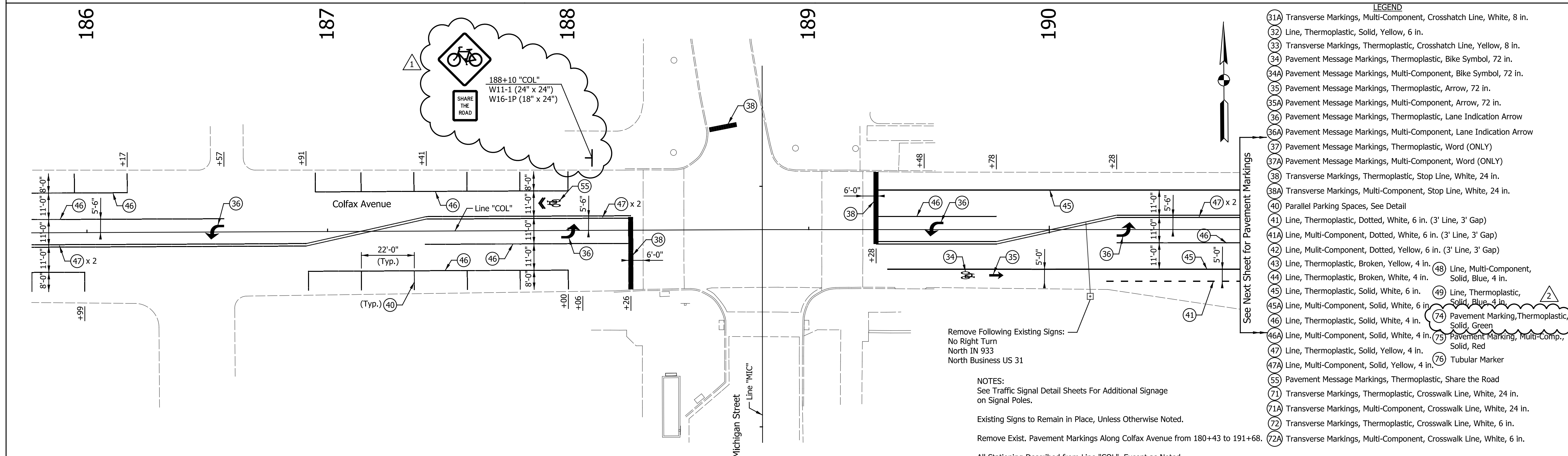
CITY OF SOUTH BEND	
PAVEMENT MARKING & SIGNING DETAILS	
WASHINGTON STREET	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	216 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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☐ Pavement Message Markings, Thermoplastic, Blue, Handicap Symbol



- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 48 Line, Multi-Component, Solid, Blue, 4 in.
  - 49 Line, Thermoplastic, Solid, Blue, 4 in.
  - 49A Line, Multi-Component, Solid, Blue, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - 74 Pavement Marking, Thermoplastic, Solid, Green
  - 75 Pavement Marking, Multi-Comp., Solid, Red
  - 76 Tubular Marker

Remove Following Existing Signs:  
 No Right Turn  
 North IN 933  
 North Business US 31

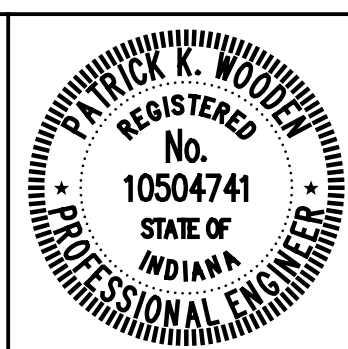
NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

Existing Signs to Remain in Place, Unless Otherwise Noted.

Remove Exist. Pavement Markings Along Colfax Avenue from 180+43 to 191+68.

All Stationing Described from Line "COL", Except as Noted.

1/15/2016	REV 1: Added Sign
1/29/2016	REV 2: Revised Legend

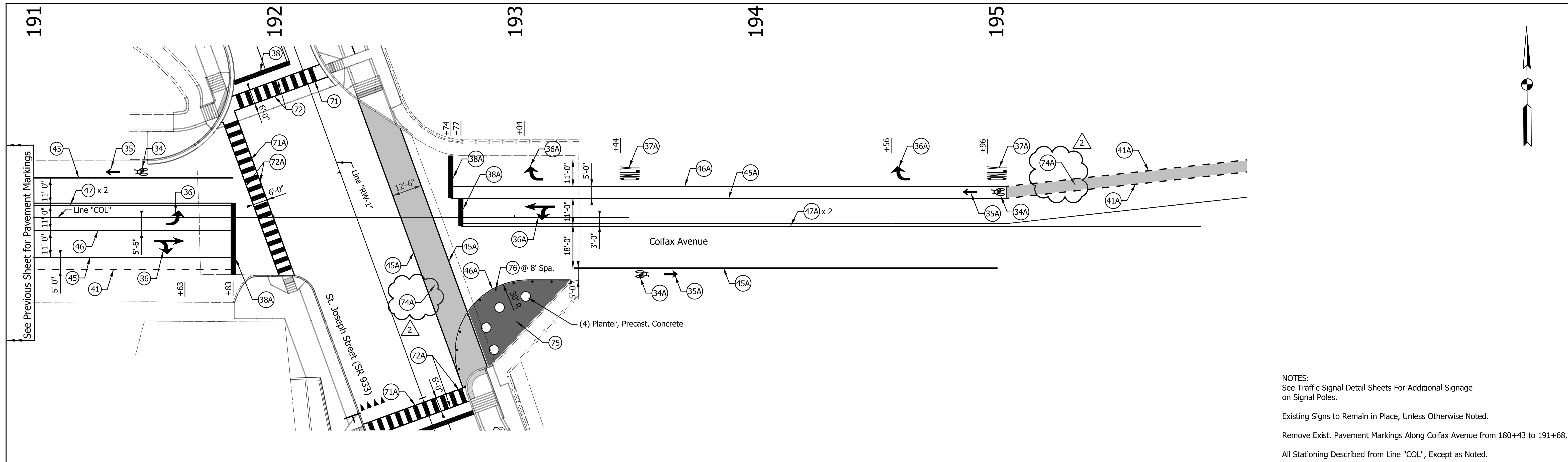


RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	1/7/2016	
DESIGNED:	MRR	DRAWN:	JRG
CHECKED:	PKW	CHECKED:	PKW

CITY OF SOUTH BEND  
**PAVEMENT MARKING & SIGNING DETAILS**  
 COLFAX AVENUE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	217 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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NOTES:  
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
 Existing Signs to Remain in Place, Unless Otherwise Noted.  
 Remove Exist. Pavement Markings Along Colfax Avenue from 180+43 to 191+68.  
 All Stationing Described from Line "COL", Except as Noted.

- LEGEND**
- (31A) Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - (32) Line, Thermoplastic, Solid, Yellow, 6 in.
  - (33) Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - (34A) Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - (35A) Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - (36A) Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - (37) Pavement Message Markings, Thermoplastic, Word (ONLY)
  - (37A) Pavement Message Markings, Multi-Component, Word (ONLY)
  - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - (38A) Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - (40) Parallel Parking Spaces, See Detail
  - (41) Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (41A) Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - (42) Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
  - (44) Line, Thermoplastic, Broken, White, 4 in.
  - (45) Line, Thermoplastic, Solid, White, 6 in.
  - (45A) Line, Multi-Component, Solid, White, 6 in.
  - (46) Line, Thermoplastic, Solid, White, 4 in.
  - (46A) Line, Multi-Component, Solid, White, 4 in.
  - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
  - (47A) Line, Multi-Component, Solid, Yellow, 4 in.
  - (55) Pavement Message Markings, Thermoplastic, Share the Road
  - (71) Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - (71A) Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - (72A) Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - (74) Pavement Marking, Thermoplastic, Solid, Green
  - (74A) Pavement Marking, Multi-Component, Solid, Green
  - (75) Pavement Marking, Multi-Comp., Solid, Red
  - (76) Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Legend



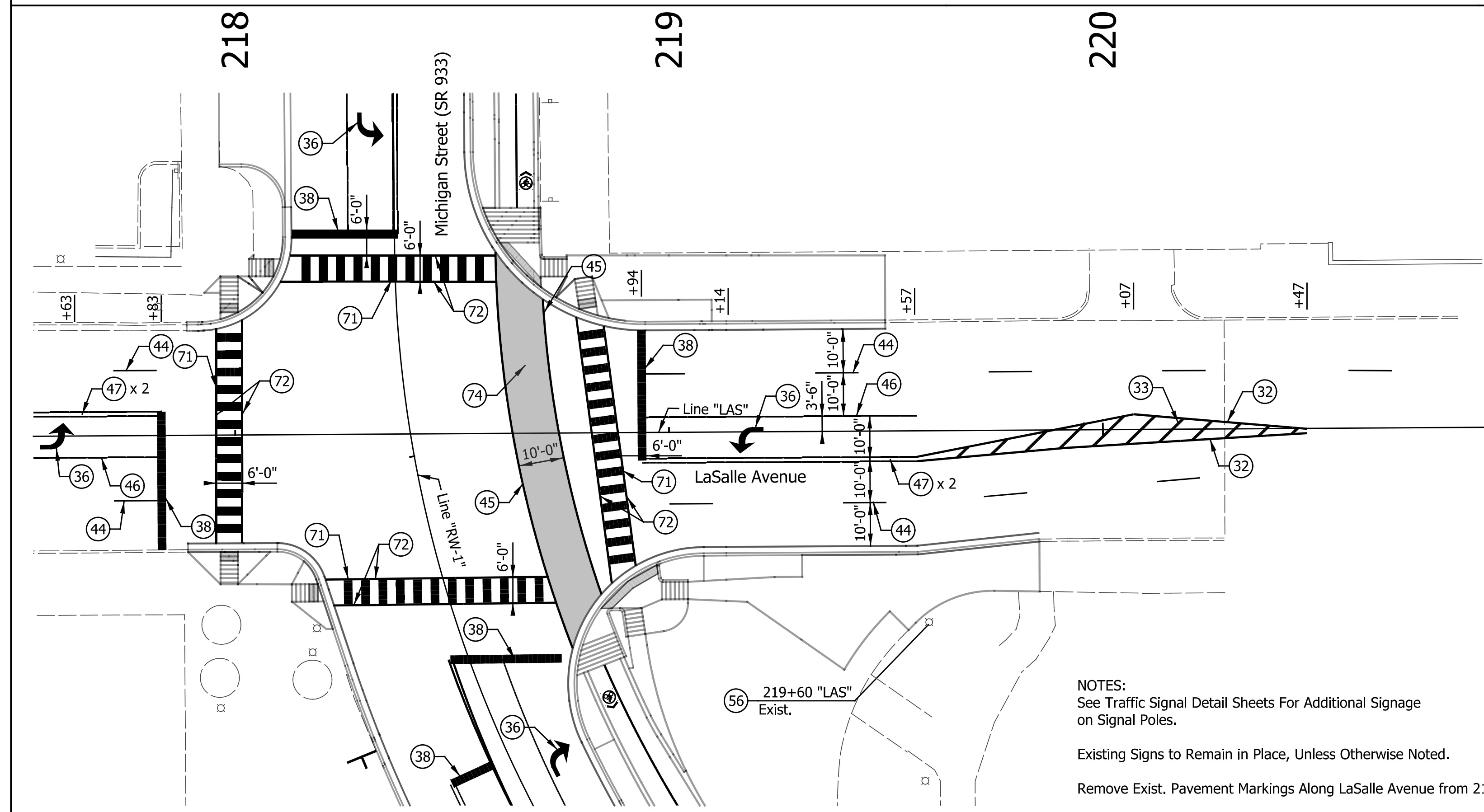
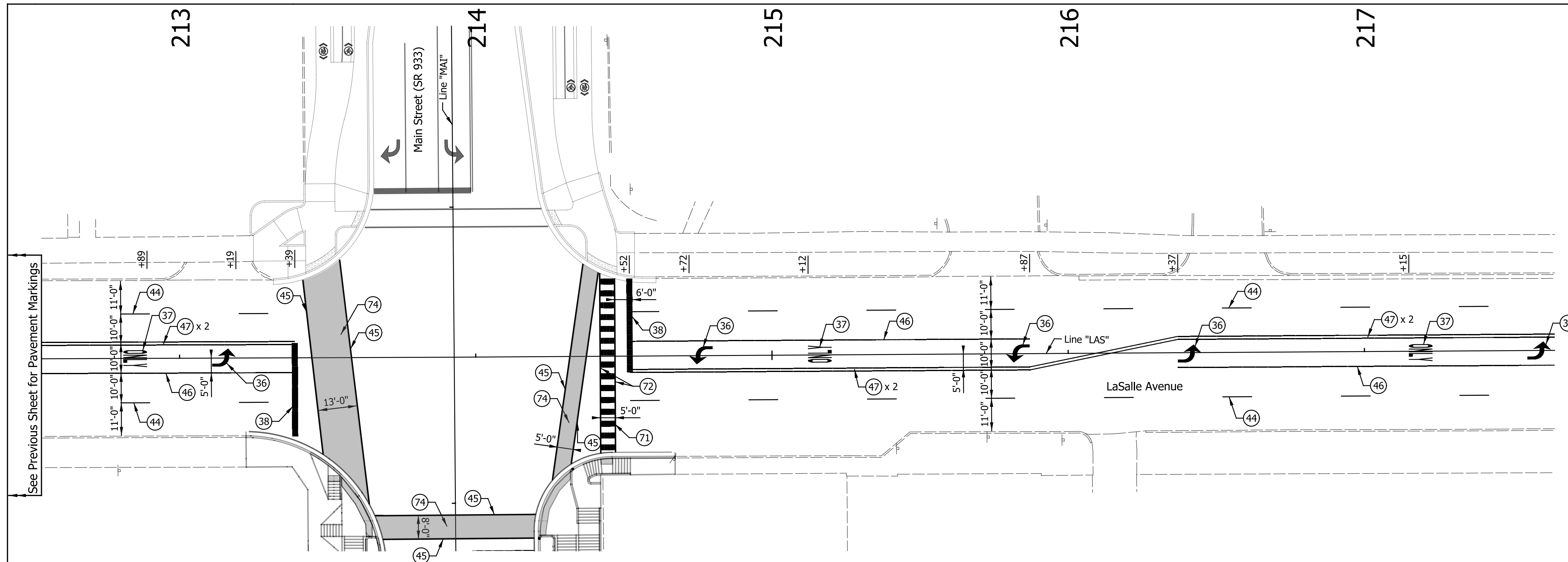
RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

**CITY OF SOUTH BEND**  
**PAVEMENT MARKING & SIGNING DETAILS**  
**COLFAX AVENUE**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	218 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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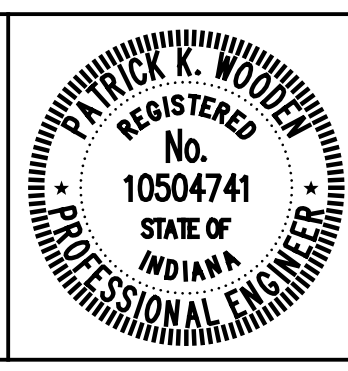


NOTES:  
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.  
Existing Signs to Remain in Place, Unless Otherwise Noted.  
Remove Exist. Pavement Markings Along LaSalle Avenue from 210+00 to 217+83.  
All Stationing Described from Line "LAS", Except as Noted.

56 Sign, Sheet, and Supports, Remove

- LEGEND**
- 31A Transverse Markings, Multi-Component, Crosshatch Line, White, 8 in.
  - 32 Line, Thermoplastic, Solid, Yellow, 6 in.
  - 33 Transverse Markings, Thermoplastic, Crosshatch Line, Yellow, 8 in.
  - 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
  - 34A Pavement Message Markings, Multi-Component, Bike Symbol, 72 in.
  - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
  - 35A Pavement Message Markings, Multi-Component, Arrow, 72 in.
  - 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
  - 36A Pavement Message Markings, Multi-Component, Lane Indication Arrow
  - 37 Pavement Message Markings, Thermoplastic, Word (ONLY)
  - 37A Pavement Message Markings, Multi-Component, Word (ONLY)
  - 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
  - 38A Transverse Markings, Multi-Component, Stop Line, White, 24 in.
  - 40 Parallel Parking Spaces, See Detail
  - 41 Line, Thermoplastic, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 41A Line, Multi-Component, Dotted, White, 6 in. (3' Line, 3' Gap)
  - 42 Line, Multi-Component, Dotted, Yellow, 6 in. (3' Line, 3' Gap)
  - 43 Line, Thermoplastic, Broken, Yellow, 4 in.
  - 44 Line, Thermoplastic, Broken, White, 4 in.
  - 45 Line, Thermoplastic, Solid, White, 6 in.
  - 45A Line, Multi-Component, Solid, White, 6 in.
  - 46 Line, Thermoplastic, Solid, White, 4 in.
  - 46A Line, Multi-Component, Solid, White, 4 in.
  - 47 Line, Thermoplastic, Solid, Yellow, 4 in.
  - 47A Line, Multi-Component, Solid, Yellow, 4 in.
  - 48 Line, Multi-Component, Solid, Blue, 4 in.
  - 49 Line, Thermoplastic, Solid, Blue, 4 in.
  - 55 Pavement Message Markings, Thermoplastic, Share the Road
  - 71 Transverse Markings, Thermoplastic, Crosswalk Line, White, 24 in.
  - 71A Transverse Markings, Multi-Component, Crosswalk Line, White, 24 in.
  - 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
  - 72A Transverse Markings, Multi-Component, Crosswalk Line, White, 6 in.
  - 74 Pavement Marking, Thermoplastic, Solid, Green
  - 75 Pavement Marking, Multi-Comp., Solid, Red
  - 76 Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Legend



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS

LASALLE AVENUE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	220 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

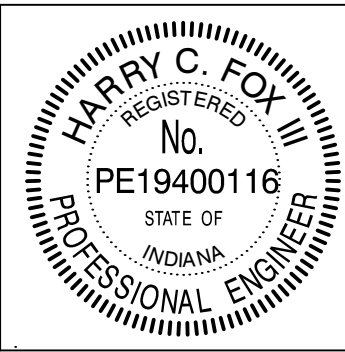
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SHEET SIGN & POST SUMMARY												
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR POST LENGTH (FT)			2 1/4" x 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR POST LENGTH (FT)		
				0.080"	0.100"	0.125"	1	2	TOTAL	1	2	TOTAL
				SQUARE			SQUARE			SQUARE		
MAI	654+30	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	666+57	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	666+80	R1-1	30 x 30	6.3						12.5	12.5	
MAI	667+30	R1-1	30 x 30	6.3						12.5	12.5	
MAI	667+60	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	679+75	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	680+90	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	687+40	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	687+50	R1-1	30 x 30	6.3						12.5	12.5	
MAI	688+25	R1-1	30 x 30	6.3						12.5	12.5	
MAI	688+45	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MAI	706+05	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	354+67	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	354+67	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	366+90	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	366+90	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	367+18	R1-1	30 x 30	6.3						12.5	12.5	
MIC	367+51	R1-1	30 x 30	6.3						12.5	12.5	
MIC	367+88	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	367+88	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	380+15	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	380+15	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	381+39	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	381+39	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	387+90	R2-1 (25)	24 x 30	5.0						9.5	9.5	
MIC	387+90	W11-1	24 x 24	4.0						13.0	13.0	
		W16-1P	18 x 24	3.0								
MIC	388+10	R1-1	30 x 30	6.3						12.5	12.5	
MIC	388+60	R1-1	30 x 30	6.3						12.5	12.5	
MIC	388+85	R2-1 (25)	24 x 30	5.0						9.5	9.5	
SUBTOTALS				167.4						320.5		

SHEET SIGN & POST SUMMARY												
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR POST LENGTH (FT)			2 1/4" x 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR POST LENGTH (FT)		
				0.080"	0.100"	0.125"	1	2	TOTAL	1	2	TOTAL
				SQUARE			SQUARE			SQUARE		
MIC	388+85	R3-17	24 x 18	3.0						9.5	9.5	
		R3-17bP	24 x 8	2.0								
MIC	398+07	W4-2	36 x 36		9.0					10	10	
MIC	399+45	W9-1(R)	36 x 36		9.0					10	10	
MIC	401+25	R3-17	24 x 18	3.0						9.5	9.5	
		R3-17aP	24 x 8	3.0						9.5	9.5	
SUBTOTALS				11.0	18.0					48.5		
TOTALS				177.4	18.0					369.0		

DIRECTORY: F:\2015\15-3229 South Bend 2 Way Conversion\DRAWINGS\TABLES  
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 PLOTTED BY: HDBR  
 DATE: 01/29/2016 8:17am

DATE	REVISION
1/29/2016	Rev 2: Add Sheet



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:

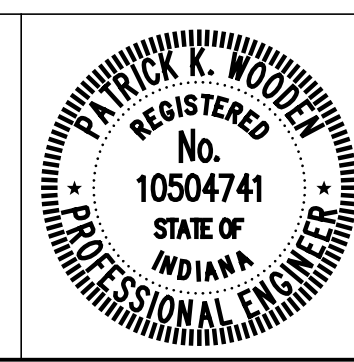
CITY OF SOUTH BEND	
SHEET SIGN & POST SUMMARY	

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	221-1 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

SHEET SIGN & POST SUMMARY											
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			SQUARE REINFORCED ANCHOR			TOTAL	
				0.080"	0.100"	0.125"	2" x 2" - 12 GA. (TYPE 2)		2 1/4" x 2 1/4" - 12 GA. (TYPE 1)		
							POST LENGTH (FT)	TOTAL	POST LENGTH (FT)		TOTAL
MAI	707+70	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MAI	708+50	W9-2L	36 x 36	9.0					10	10	
MAI	709+50	W4-2R	36 x 36	9.0					10	10	
MAI	711+20	M2-1	21 x 15	2.2					10.3	10.3	
		M1-5	24 x 24	4.0							
MAI	723+48	R3-17	24 x 18	3.0					9.5	9.5	
		M4-14	24 x 12	2.0							
MAI	723+48	R3-17	24 x 18	3.0					10.5	10.5	
		M4-6	24 x 12	2.0							
MAI	727+00	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MAI	728+80	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MAI	731+25	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MAI	731+95	R3-17	24 x 18	3.0					9.2	9.2	
		R3-17aP	24 x 8	1.3							
MAI	731+95	R3-17	24 x 18	3.0					9.2	9.2	
		R3-17bP	24 x 8	1.3							
MAI	734+17	R7-5	12 x 18	1.5					8.5	8.5	
MAI	734+55	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MAI	735+85	R7-5	12 x 18	1.5					8.5	8.5	
MAI	736+55	R7-5	12 x 18	1.5					8.5	8.5	
MAI	741+07	R7-5	12 x 18	1.5					8.5	8.5	
MAI	741+28	R7-5	12 x 18	1.5					8.5	8.5	
MAI	744+20	R7-108	12 x 18	1.5					8.5	8.5	
MAI	746+18	R7-5	12 x 18	1.5					8.5	8.5	
MAI	749+01	R7-5	12 x 18	1.5					8.5	8.5	
MAI	751+14	R7-5	12 x 18	1.5					8.5	8.5	
MAI	754+28	R7-5	12 x 18	1.5					8.5	8.5	
MAI	755+92	R7-5	12 x 18	1.5					8.5	8.5	
MAI	756+20	R2-1 (25)	24 x 30	5.0					9.5	9.5	
TOTALS				71.4	18.0				219.2		

SHEET SIGN & POST SUMMARY											
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			SQUARE REINFORCED ANCHOR			TOTAL	
				0.080"	0.100"	0.125"	2" x 2" - 12 GA. (TYPE 2)		2 1/4" x 2 1/4" - 12 GA. (TYPE 1)		
							POST LENGTH (FT)	TOTAL	POST LENGTH (FT)		TOTAL
MIC	407+75	R3-17	24 x 18	3.0					8.5	8.5	
MIC	407+90	R2-1 (25)	24 x 30	5.0					9.5	9.5	
MIC	411+25	M2-1	21 x 15	2.2					10.3	10.3	
		M1-5	24 x 24	4.0							
MIC	427+11	R2-1 (25)	24 x 30	5.0					9.5	9.5	
A	10+85	R2-1 (25)	24 x 30	5.0					9.5	9.5	
A	14+00	R2-1 (25)	24 x 30	5.0					9.5	9.5	
A	16+30	R2-1 (25)	24 x 30	5.0					9.5	9.5	
A	17+15	R4-4	36 x 30	7.5					9.5	9.5	
A	20+00	R3-17	24 x 18	3.0					9.2	9.2	
		R3-17aP	24 x 8	1.3							
A	20+16	R3-17	24 x 18	3.0					9.2	9.2	
		R3-17bP	24 x 8	1.3							
A	21+45	R1-1	18 x 18	2.3					8.5	8.5	
A	21+54								1 - Cycle Track Sign Assembly		
A	21+58	Removed									
A	21+62	Removed									
A	24+98								1 - Cycle Track Sign Assembly		
A	27+25								1 - Cycle Track Sign Assembly		
A	30+31								1 - Cycle Track Sign Assembly		
RW-1	31+10	R4-7	24 x 30	5.0					9.5	9.5	
RW-1	31+30								1 - Cycle Track Sign Assembly		
RW-1	31+60								1 - Cycle Track Sign Assembly		
RW-1	32+08	R1-1	30 x 30	6.3					9.5	9.5	
RW-1	32+63								1 - Shared Use Path Sign Assembly		
RW-1	35+03	W11-2	30 x 30	6.3					10.5	10.5	
		W16-7pL	24 x 12	2.0							
RW-1	34+08								1 - Shared Use Path Sign Assembly		
RW-1	36+84								Deleted		
RW-1	37+79								Deleted		
RW-1	39+57								1 - Shared Use Path Sign Assembly		
RW-1	40+10	R1-1	30 x 30	6.3					12.5	12.5	
		R3-5R	30 x 36	7.5							
RW-1	41+40	R2-1 (25)	24 x 30	5.0					9.5	9.5	
TOTALS				83.4	7.5				154.2		

DATE	REVISION
1/29/2016	REV 2: Revised Sign Location



RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/7/2016	DATE
DESIGNED: _____	MRR	DRAWN: _____	MRR	
CHECKED: _____	PKW	CHECKED: _____	PKW	

CITY OF SOUTH BEND	
SHEET SIGN & POST SUMMARY	

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	222 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)