UTILITIES

ELECTRIC

American Electric Power
Transmission Electric
700 Morrison Road
Gahanna, OH 432320
(614) 552-1893
Contact: Barbara Dunlap

MCI/Verizon
720 W. Henry Street
Indianapolis, IN 46225
(317) 685-8050
Contact: Chris Fowler

Infinity Fiber/Union Station/GAP
5520 W 76th Street
Inidianapolis, IN 46268
(317) 777-7583
Contact: Keith Hamm

Windstream Communications
30486 E 400 N
Strawn, IL 61775
(309) 838-0788
Contact: Jeff Taylor

Indiana Michigan Power-Distribution Electric
2929 Lathrop Street
South Bend, IN 46628
(574) 236-1658
Contact: Antonio Macias

TELEPHONE/COMMUNICATIONS

Level 3 Communications
1025 Eldorado Blvd.
Broomfield, CO 80021
(720) 888-7280
Contact: Michael Karacson

Sprint
400 W Grand Ave.
Elmhurt, IL 90216
(847) 737-1869
Contact: Gerry Crain

Rogers Telecom
4804 N 40th Street
Sheboygan, WI 53083
(920) 395-7125
Contact: Vicki Moran

Zayo Bandwidth
1710 Directors Row
Ft Wayne, IN 46808
(260) 570-5677
Contact: Jason Gilpin

Qwest/CenturyLink
13057 S. Monitor Ave.
Palos Heights, IL 60463
(708) 837-7927
Contact: Kevin Huff

AT&T-Distribution
307 S. Main Street
South Bend, IN 46601
(574) 237-8380
Contact: Dennis Bunch

AT&T-Transmission
110 N. Main Street
Culver, IN 46511
(574) 842-8830
Contact: Dean Norwich

St. Joe Valley Metronet
121 S. Michigan Street
South Bend, IN 46601
(574) 360-7812
Contact: Ben Hudson

US Signal
7020 Southbelt Dr. SE
Caledonia, MI 49315
(614) 483-6350
Contact: Rick Andricks

GAS & PIPELINE

NIPSCO
1039 Pennsylvania
South Bend, IN 46601
(574) 284-2214
Contact: Phil Griffin

CABLE/TV

Comcast
1920 McKinley Avenue
Mishawaka, IN 46545
(847) 789-1039 ext. 71039
Contact: Jay Castello

SANITARY SEWER/WATER

City of South Bend-Sanitary
227 W. Jefferson Blvd.
South Bend, IN 46601
(574) 235-9251
Contact: Tony Mulnar

City of South Bend-Water
209 N. Main Street
South Bend, IN 46601
(574) 235-5633
Contact: Ed Herman

1

REVISIONS

	SHEET NO.	DATE	REVISED
1	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	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
3	2,5-8,10-13,49-52,56,62,63,69-75,77,81-86,90, 91-106,108-118,120,122,124,131,133-139, 141,143,144,150-152,154,157,159,164,166,167, 169-170,178-184,186,188,191-205, 208-215,217,218,221-1,222,223,231-237,241-243	2/12/2016	Revised Elevations & Grades, Revised Lighting Details
	90-1,90-2,177-1	2/12/2016	Added Sheet; Island Details & Signal Sheet

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

SHEET NO.	DRAWING INDEX
1	Title Sheet
2	Index and General Notes
3-4	Plan Index Location Maps
5-14	Typical Sections
15	Witnesses and Benchmarks
16-17	Geometric Tie-Up Details
18-47	Maintenance of Traffic Details
48-52	Plan Sheets - Main Street
53-58	Plan Sheets - Michigan Street & St. Joseph Street
59-60	Plan Sheets - Bronson Street & LaSalle Avenue
61-62	Superelevation Transition Diagrams
63-74	Intersection Details - Main Street
75-85	Intersection Details - Michigan Street & St. Joseph Street
86	Miscellaneous Details
87	Paver Brick Detail
88-89	Structural Wall Details
90	Parking Bumpout Details
91-122	Curb Ramp & Spot Elevation Details
123-132	Demolition Plans
133-141	Landscaping Details
142-155	Traffic Signal Details - Main Street
156-177	Traffic Signal Details - Michigan Street & St. Joseph Street
178-184	Lighting Details
185-194	Pavement Marking & Signing Plans - Main Street
195-204	Pavement Marking & Signing Plans - Michigan Street & St. Joseph Street
205-221	Pavement Marking & Signing Plans - Sample Street, Bronson Street, Monroe Street, Western Avenue, Wayne Street, Jefferson Blvd., Washington Street, Colfax Avenue, LaSalle Avenue
222-223	Sign Summary Table
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

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ 1/7/2016
DESIGN ENGINEER DATE

DESIGNED: MRR DRAWN: JRG
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)

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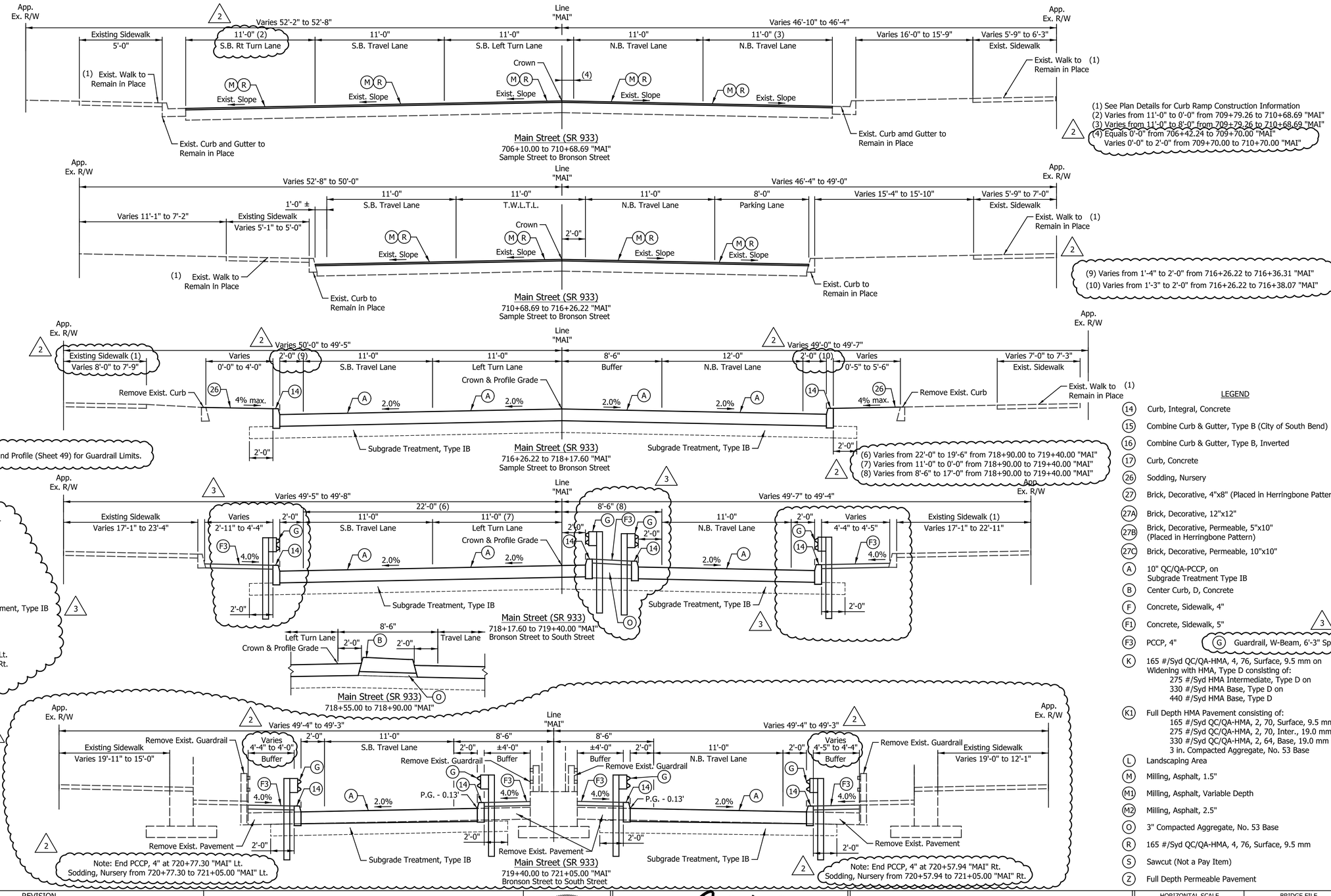

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (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"
- (G) Guardrail, W-Beam, 6'-3" Spacing
- (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.
2/12/2016	REV 3: Added Guardrail under Railroad Bridge.

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ 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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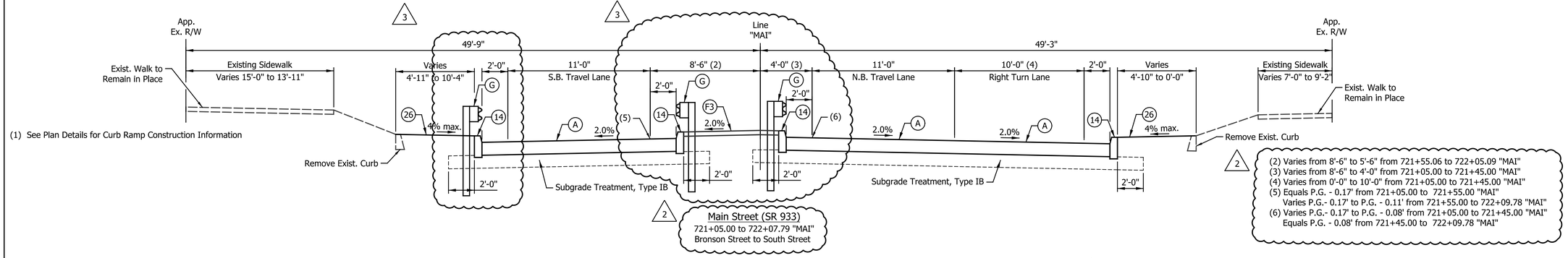
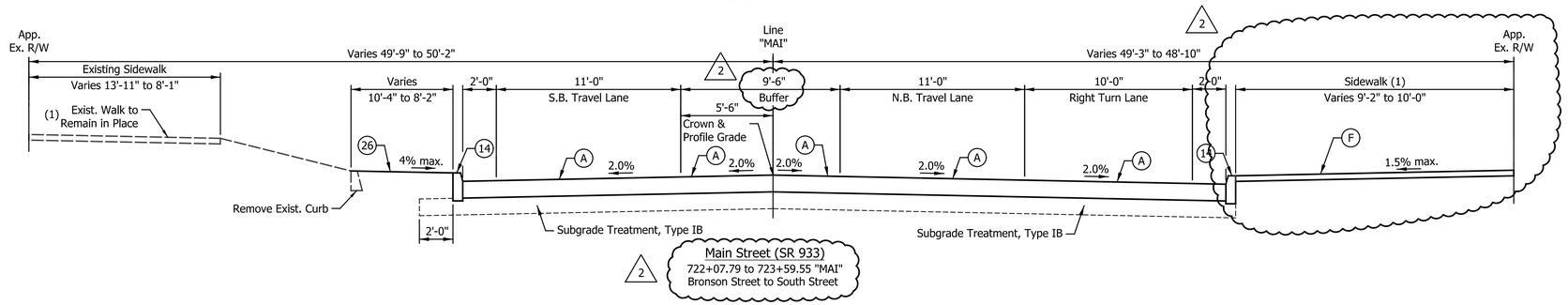
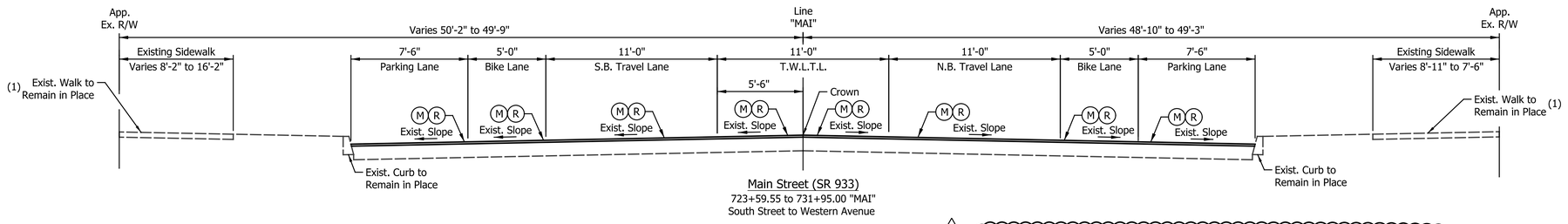
3 Designer Note: See Plan and Profile (Sheet 49) for Guardrail Limits.







3 Guardrail, W-Beam, 6'-3" Spacing

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

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.
2/12/2016	REV 3: Added Guardrail under Railroad Bridge.

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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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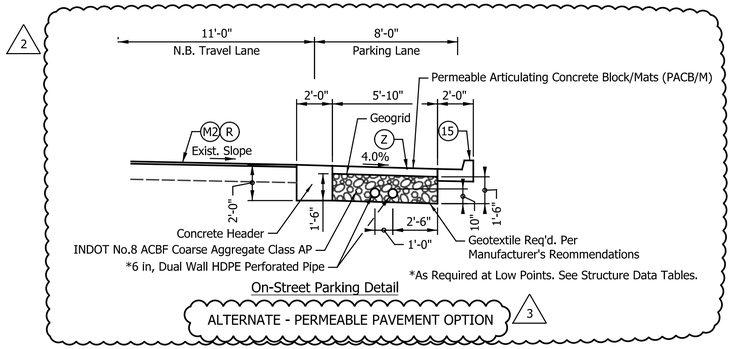

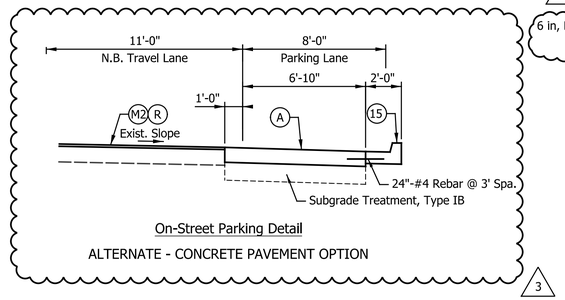

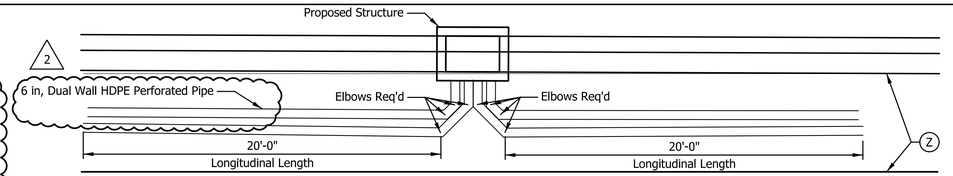

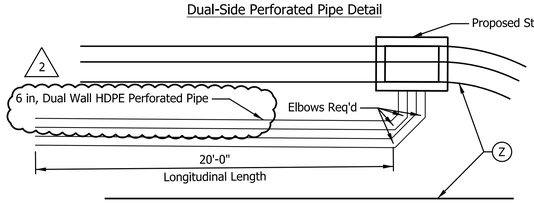

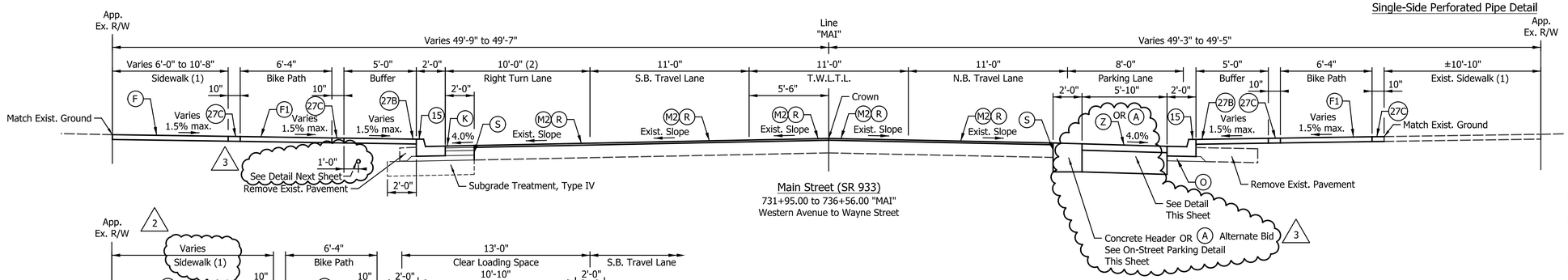

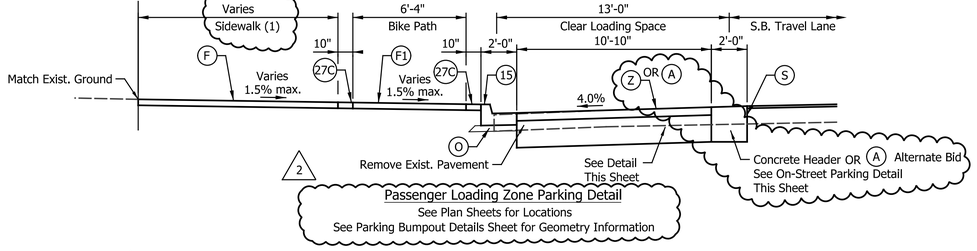

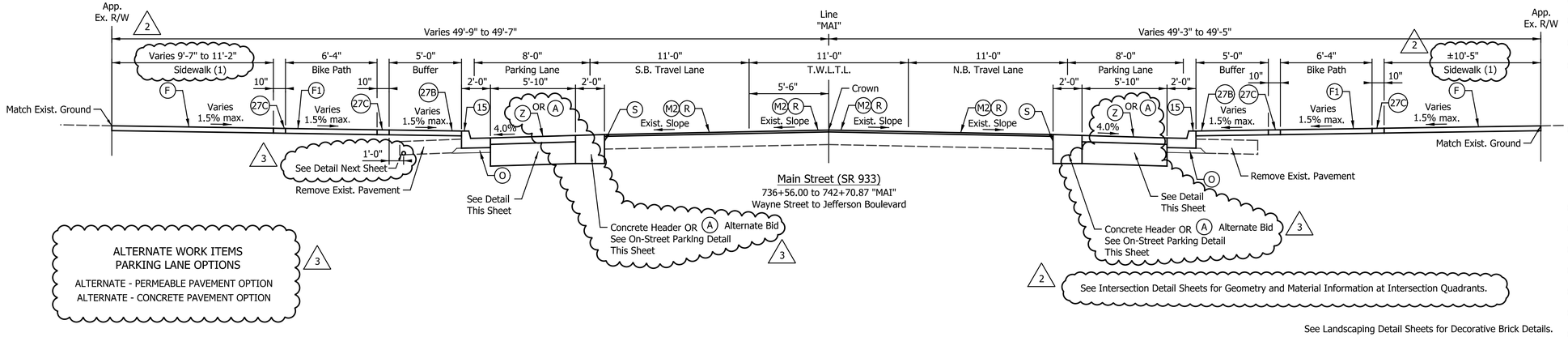

ALTERNATE WORK ITEMS
PARKING LANE OPTIONS
ALTERNATE - PERMEABLE PAVEMENT OPTION
ALTERNATE - CONCRETE PAVEMENT OPTION
3

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

See Landscaping Detail Sheets for Decorative Brick Details.

(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
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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
1/15/2016	REV 1: Adjusted Permeable Pavement Detail Per Manufacturer's Recommendations
1/29/2016	REV 2: Various Adjustments for Consistency.
2/12/2016	REV 3: Parking Lane Options Added as Alternate Work

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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	7 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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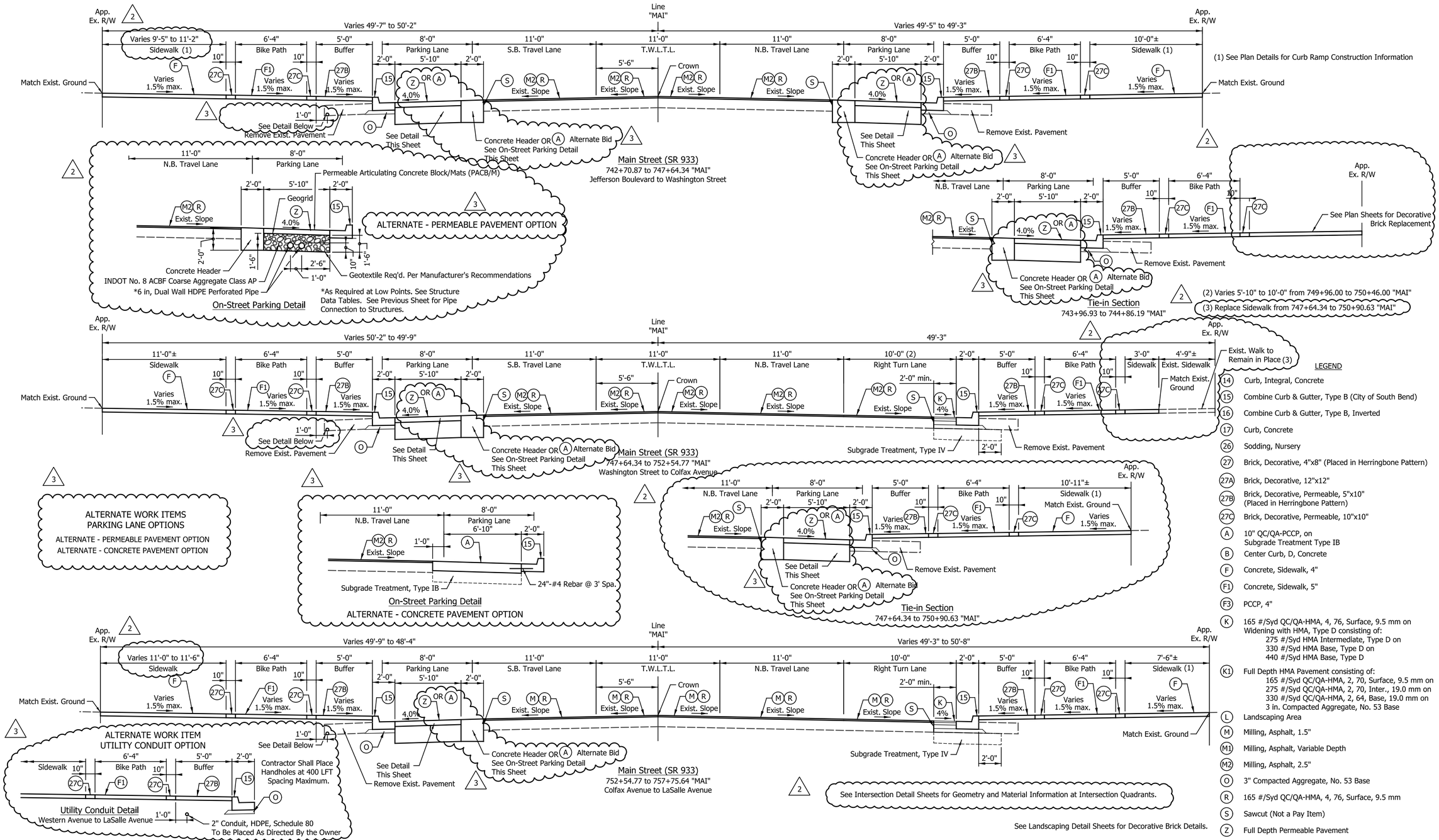

LEGEND

14	Curb, Integral, Concrete
15	Combine Curb & Gutter, Type B (City of South Bend)
16	Combine Curb & Gutter, Type B, Inverted
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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
1/15/2016	REV 1: Adjusted Permeable Pavement Detail Per Manufacturer's Recommendations
1/29/2016	REV 2: Various Adjustments for Consistency.
2/12/2016	REV 3: Alternate Work Items Added.

PATRICK R. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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	8 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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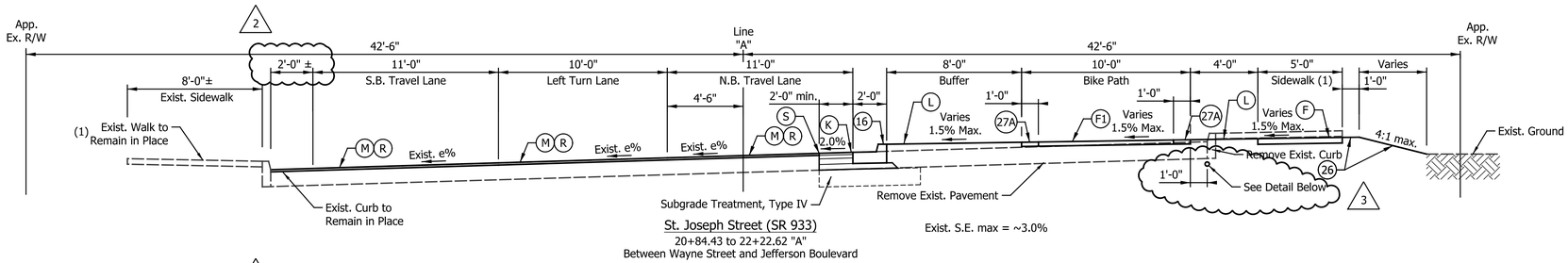
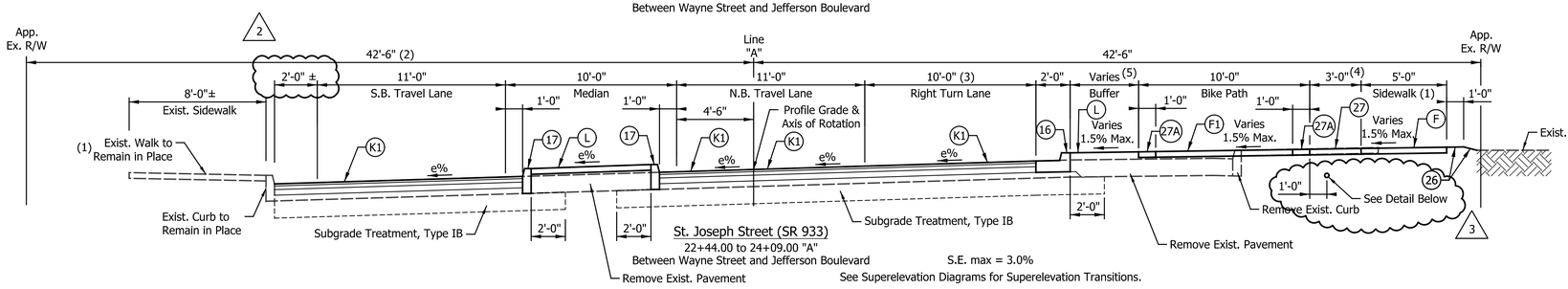
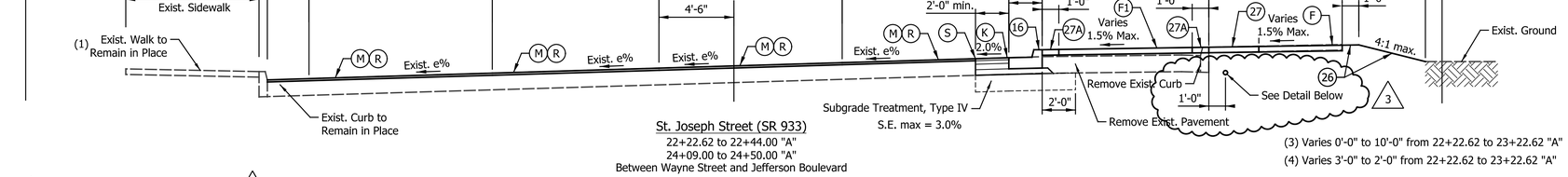
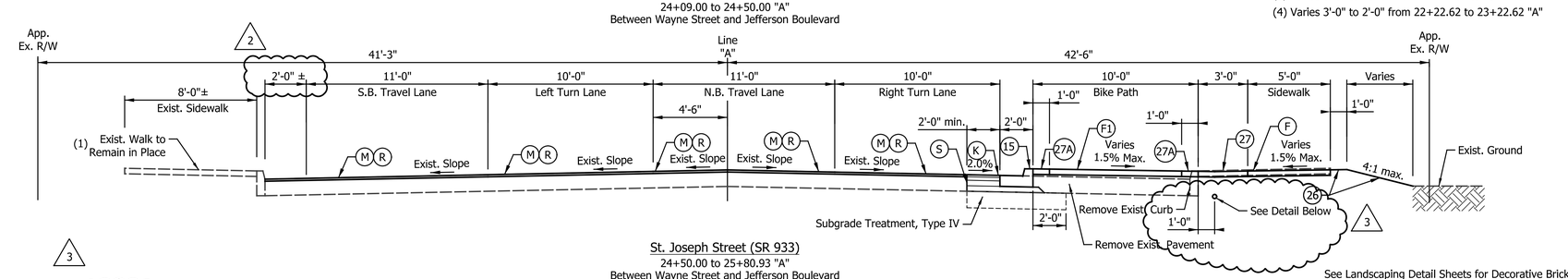




(1) See Plan Details for Curb Ramp Construction Information
(2) Equals 41'-3" from 23+19.71 to 25+80.93 "A"
(3) Varies 0'-0" to 10'-0" from 22+22.62 to 23+22.62 "A"
(4) Varies 4'-0" to 3'-0" from 22+22.62 to 23+22.62 "A"
(5) Varies 8'-0" to 0'-0" from 22+22.62 to 23+22.62 "A"

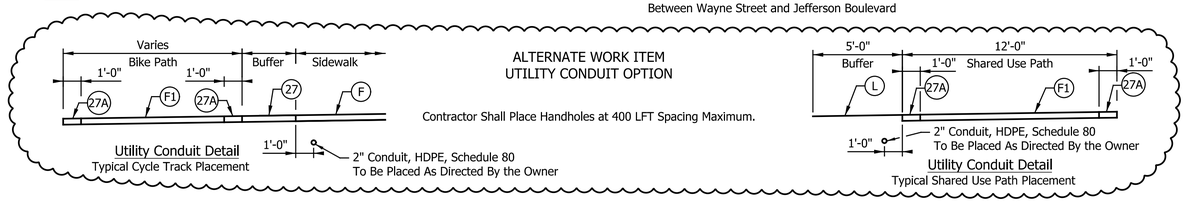


(3) Varies 0'-0" to 10'-0" from 22+22.62 to 23+22.62 "A"
(4) Varies 3'-0" to 2'-0" from 22+22.62 to 23+22.62 "A"



See Landscaping Detail Sheets for Decorative Brick Details.

3



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.
2/12/2016	REV 3: Alternate Work Items Utility Conduit Detail Added.

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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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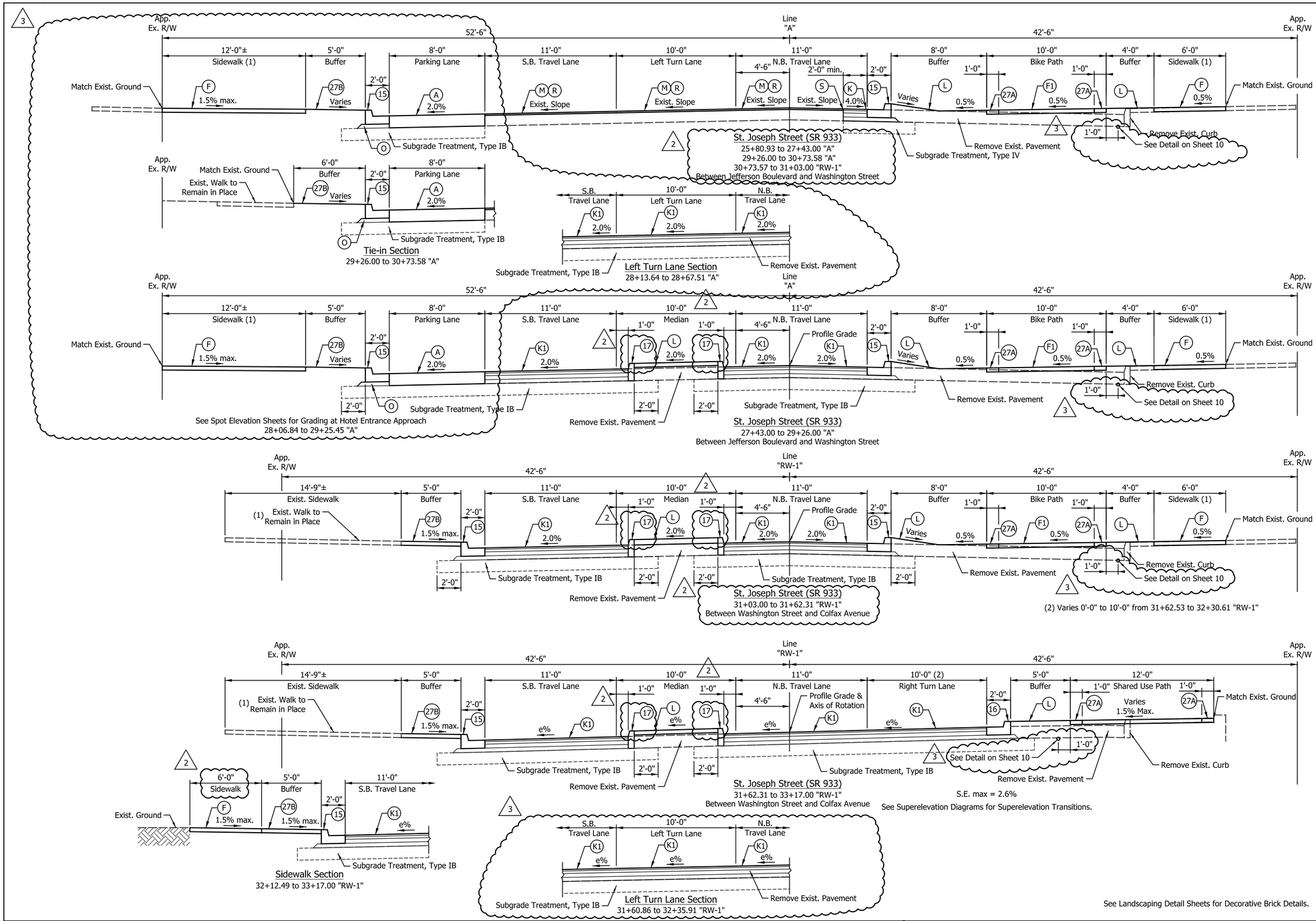

(1) See Plan Details for Curb Ramp Construction Information

(2) Varies 0'-0" to 10'-0" from 31+62.53 to 32+30.61 "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.
2/12/2016	REV 3: Added Parking Lane on West Half of Jefferson Blvd. to Washington St. Block.

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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)

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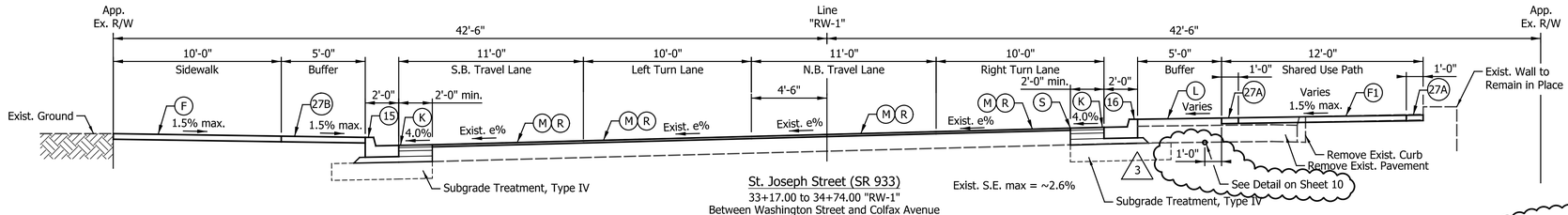
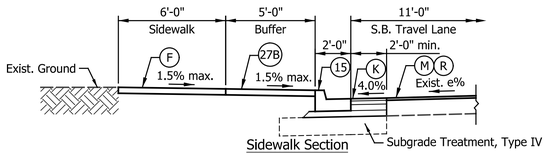
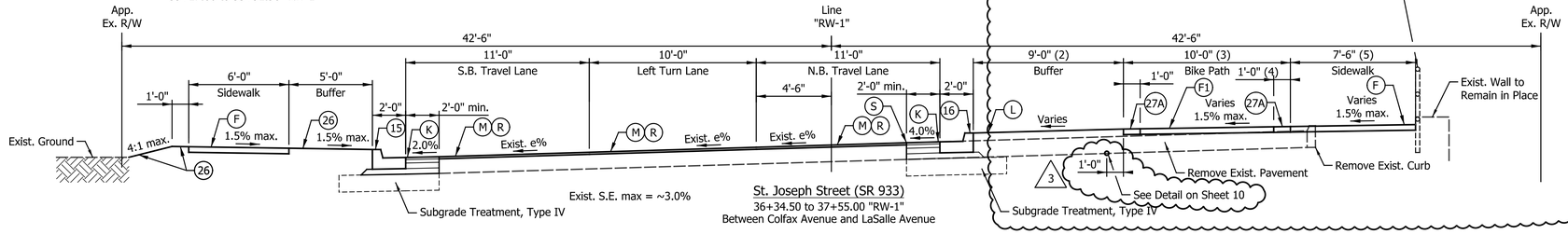




Sidewalk Section
33+17.00 to 33+91.90 "RW-1"



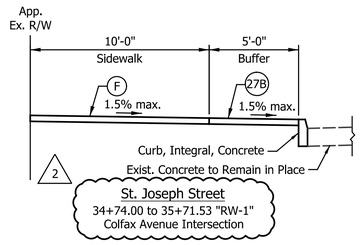
(1) See Plan Details for Curb Ramp Construction Information

(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.
2/12/2016	REV 3: Alternate Work Items Utility Conduit Detail Added.

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR 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	12 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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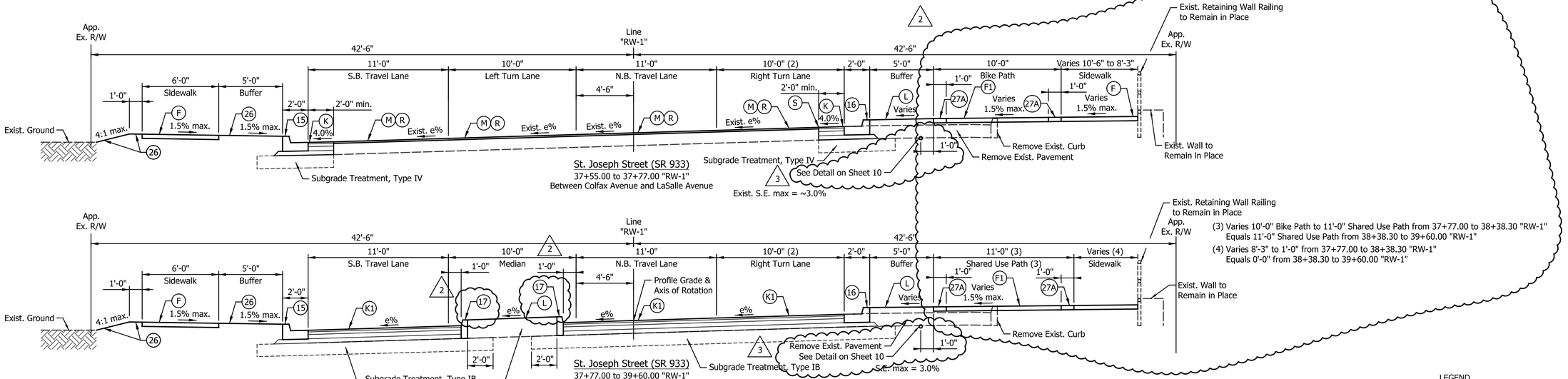
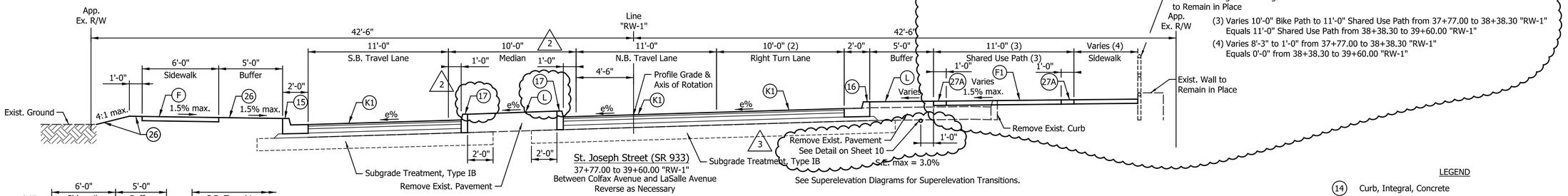
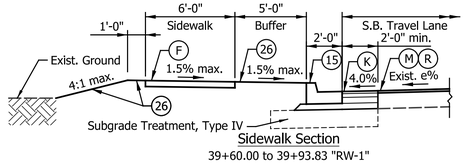
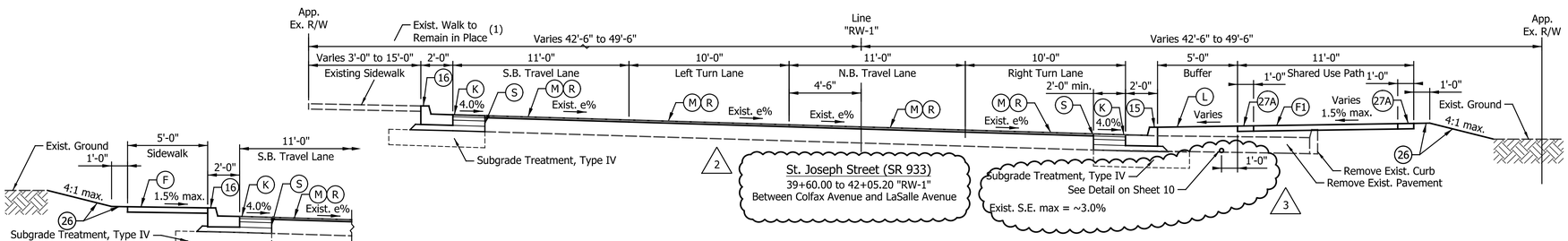
(1) See Plan Details for Curb Ramp Construction Information
(2) Varies 0'-0" to 10'-0" from 37+55.00 to 38+55.00 "RW-1"

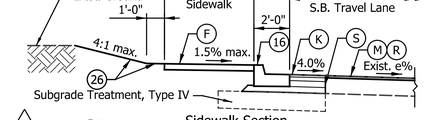


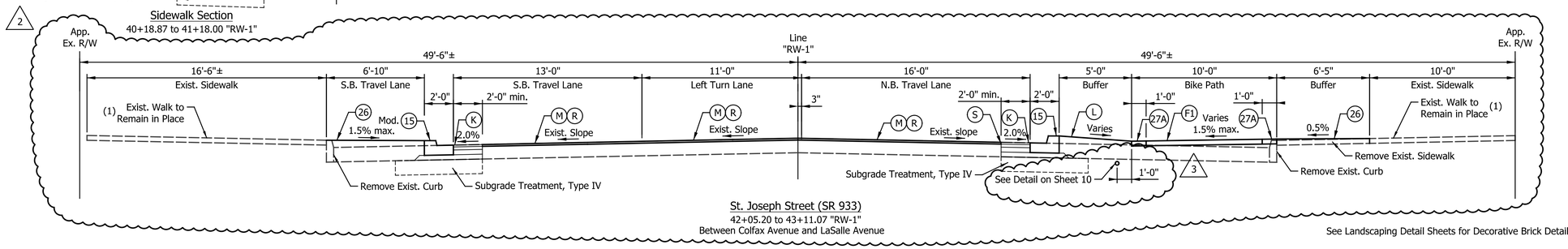
(3) Varies 10'-0" Bike Path to 11'-0" Shared Use Path from 37+77.00 to 38+38.30 "RW-1" Equals 11'-0" Shared Use Path from 38+38.30 to 39+60.00 "RW-1"
(4) Varies 8'-3" to 1'-0" from 37+77.00 to 38+38.30 "RW-1" Equals 0'-0" from 38+38.30 to 39+60.00 "RW-1"











See Landscaping Detail Sheets for Decorative Brick Details.

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.
2/12/2016	REV 3: Alternate Work Items Utility Conduit Detail Added.

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR 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)

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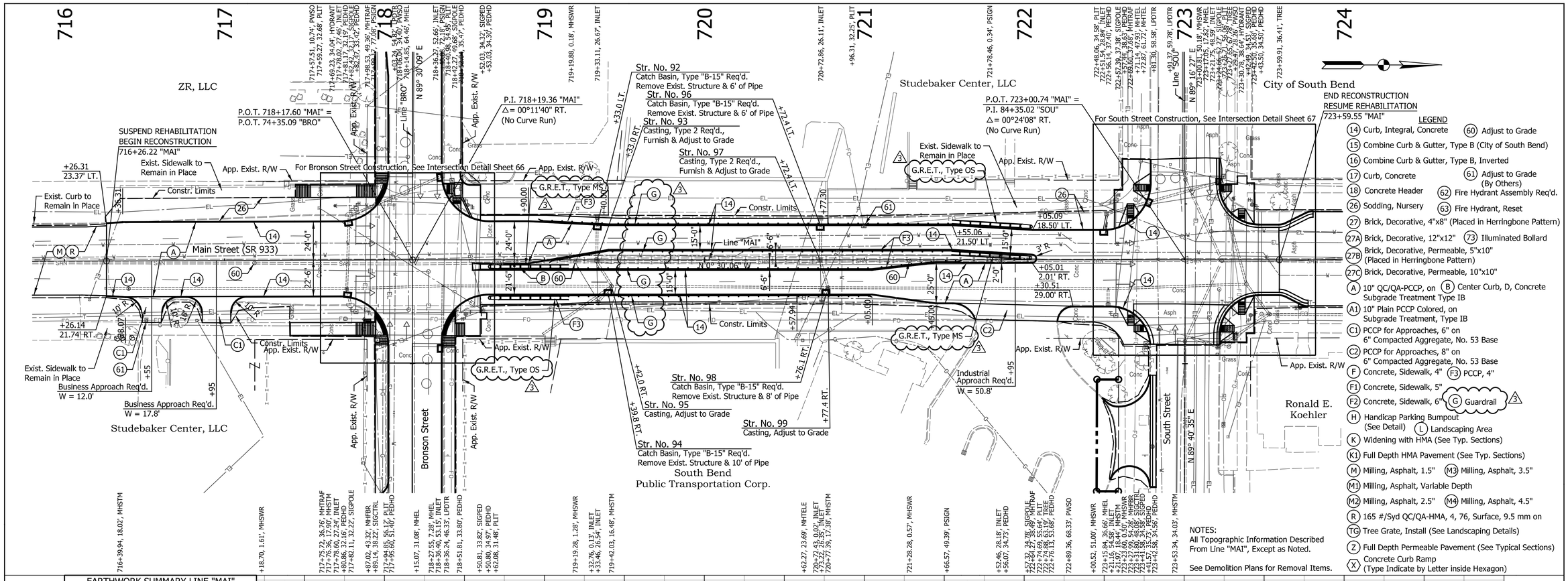
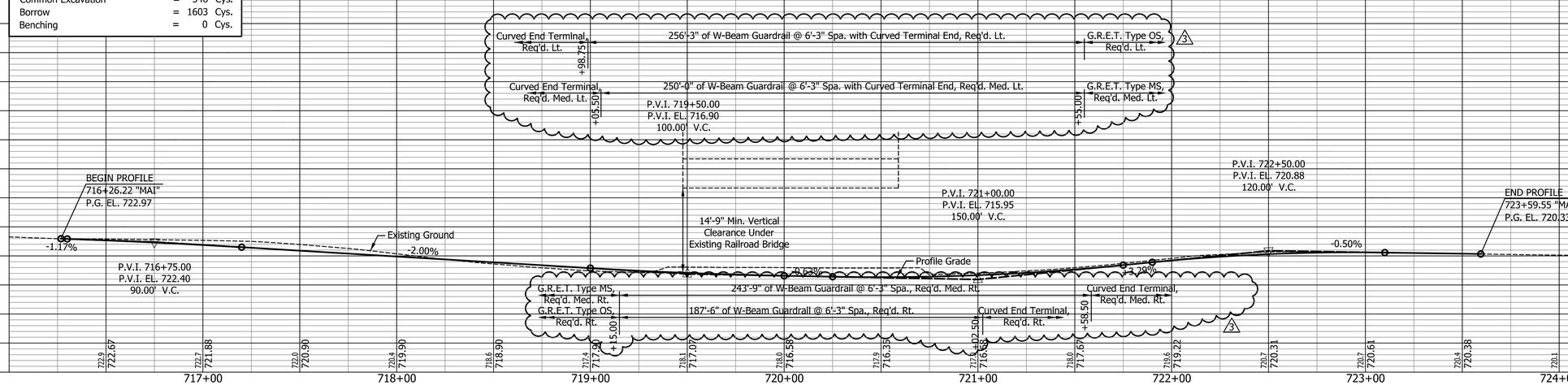


EARTHWORK SUMMARY LINE "MAI"

Fill +25%	=	1603 Cys.
Common Excavation	=	546 Cys.
Borrow	=	1603 Cys.
Benching	=	0 Cys.



DATE	REVISION
2/12/2016	REV 3: Added Guardrail

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

PLAN AND PROFILE
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	49 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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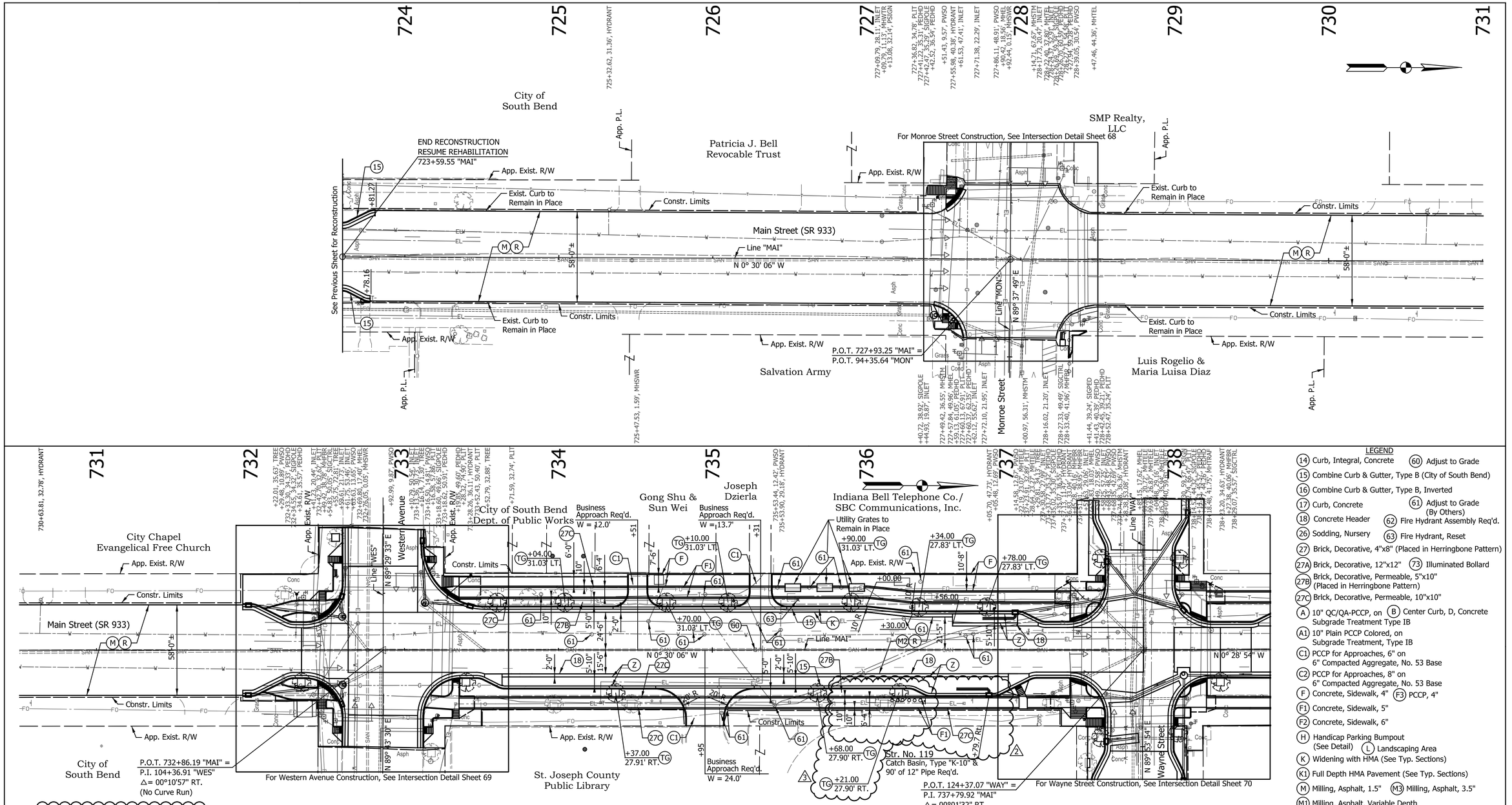

REVISION
1/29/2016 REV 2: Added Additional Handicap Parking & Removed Tree Grate
2/12/2016 REV 3: Parking Lane Options Added as Alternate

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MAIN STREET

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)

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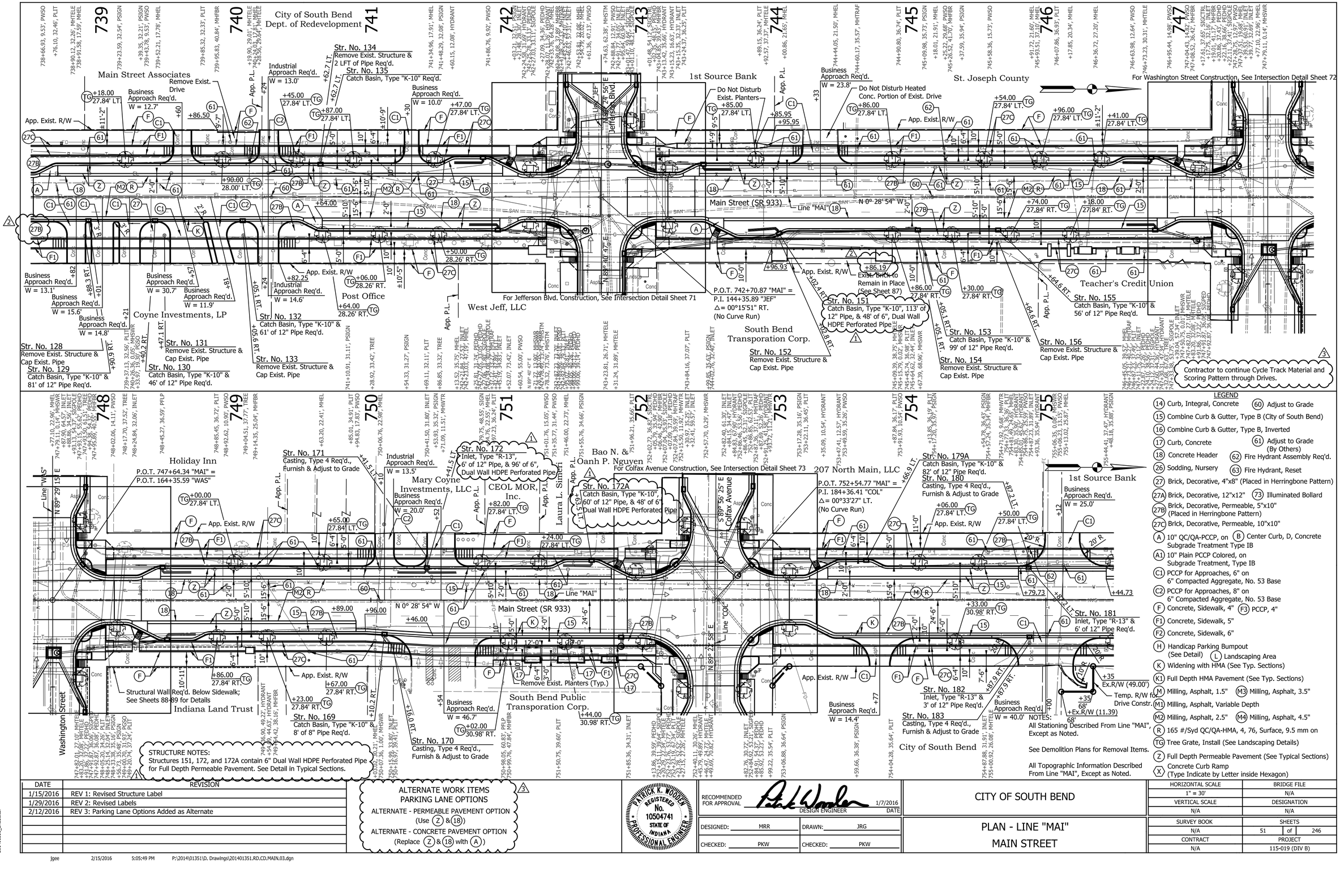

DATE	REVISION
1/15/2016	REV 1: Revised Structure Label
1/29/2016	REV 2: Revised Labels
2/12/2016	REV 3: Parking Lane Options Added as Alternate

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	51 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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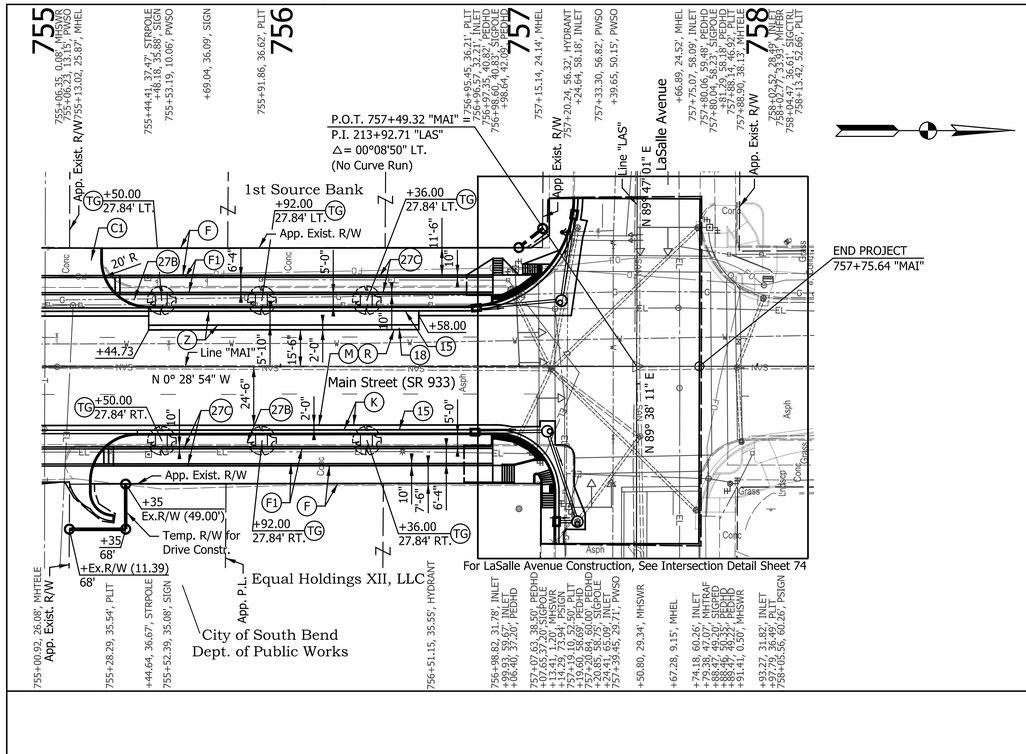

ALTERNATE WORK ITEMS
PARKING LANE OPTIONS
ALTERNATE - PERMEABLE PAVEMENT OPTION
(Use (Z) & (18))
ALTERNATE - CONCRETE PAVEMENT OPTION
(Replace (Z) & (18) with (A))
3

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

See Demolition Plans for Removal Items.

3 Contractor to continue Cycle Track Material and Scoring Pattern through Drives.

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" (F3) PCCP, 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

DATE	REVISION
2/12/2016	REV 3: Parking Lane Options Added as Alternate

PATRICK R. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	52 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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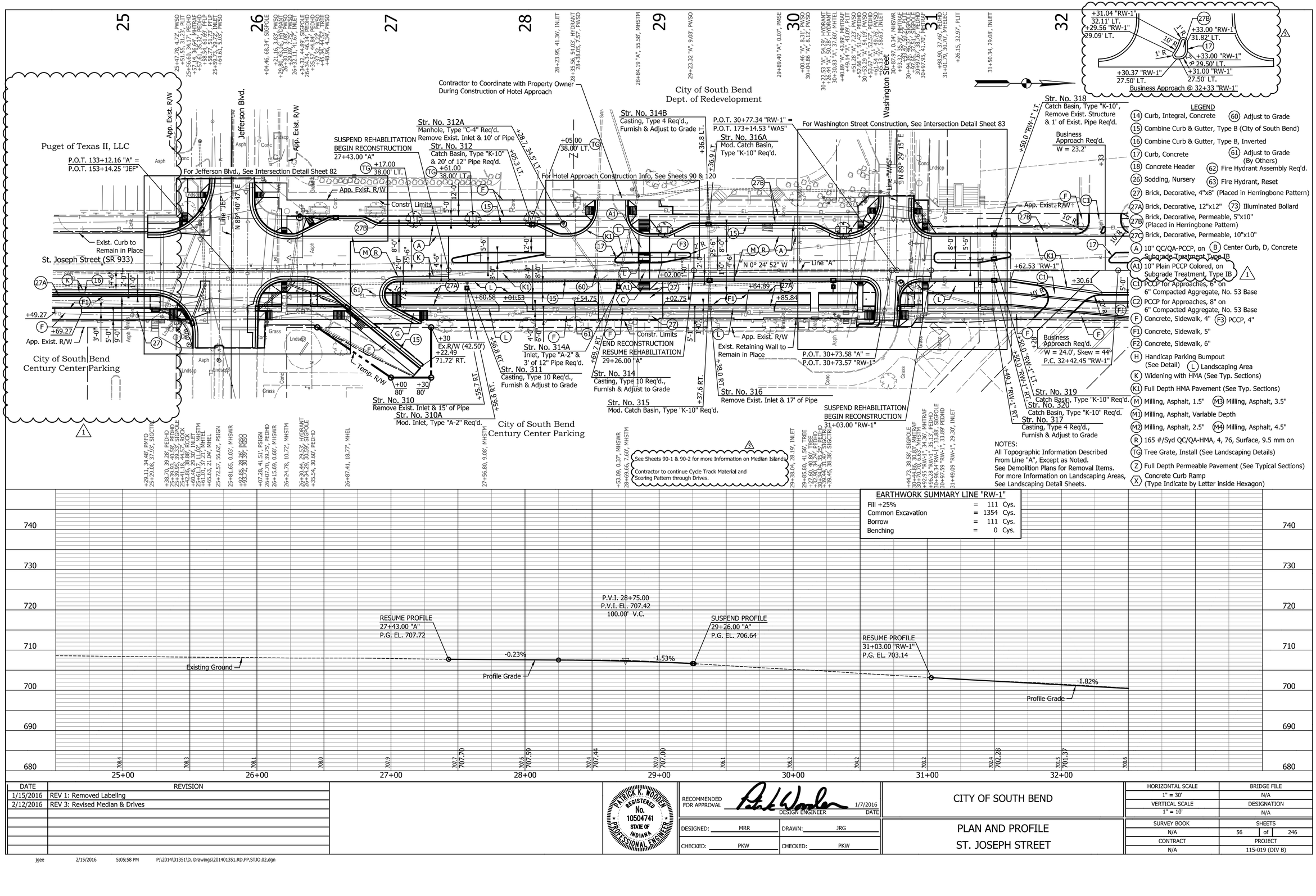

DATE	REVISION
1/15/2016	REV 1: Removed Labelling
2/12/2016	REV 3: Revised Median & Drives

PATRICK R. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG CHECKED: PKW CHECKED: 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	56 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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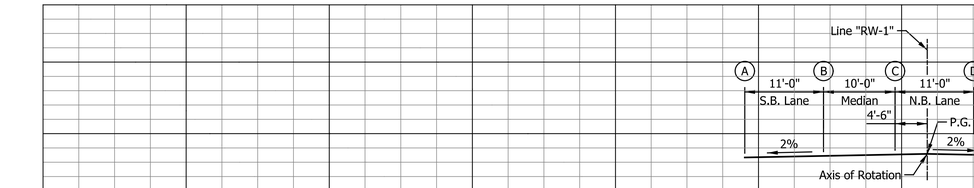
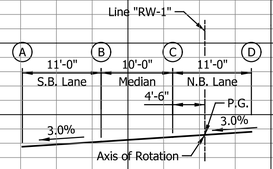


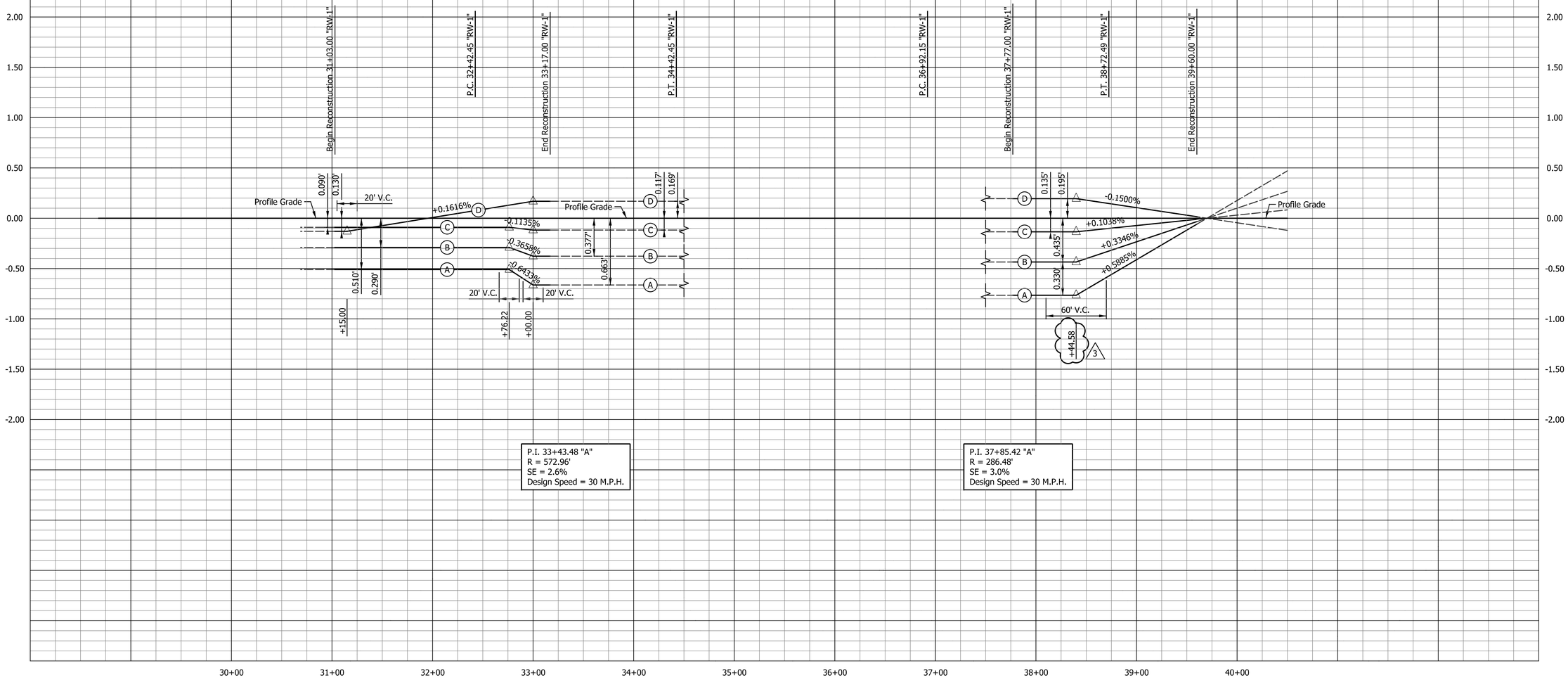
TYPICAL TANGENT SECTION

Not to Scale



TYPICAL SUPERELEVATED SECTION

Not to Scale



P.I. 33+43.48 "A"
R = 572.96'
SE = 2.6%
Design Speed = 30 M.P.H.

P.I. 37+85.42 "A"
R = 286.48'
SE = 3.0%
Design Speed = 30 M.P.H.

DATE	REVISION
2/12/2016	REV 3: Added Station

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

SUPERELEVATION TRANSITION DIAGRAM
LINE "RW-1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 0.5'	N/A
SURVEY BOOK	SHEETS
N/A	62 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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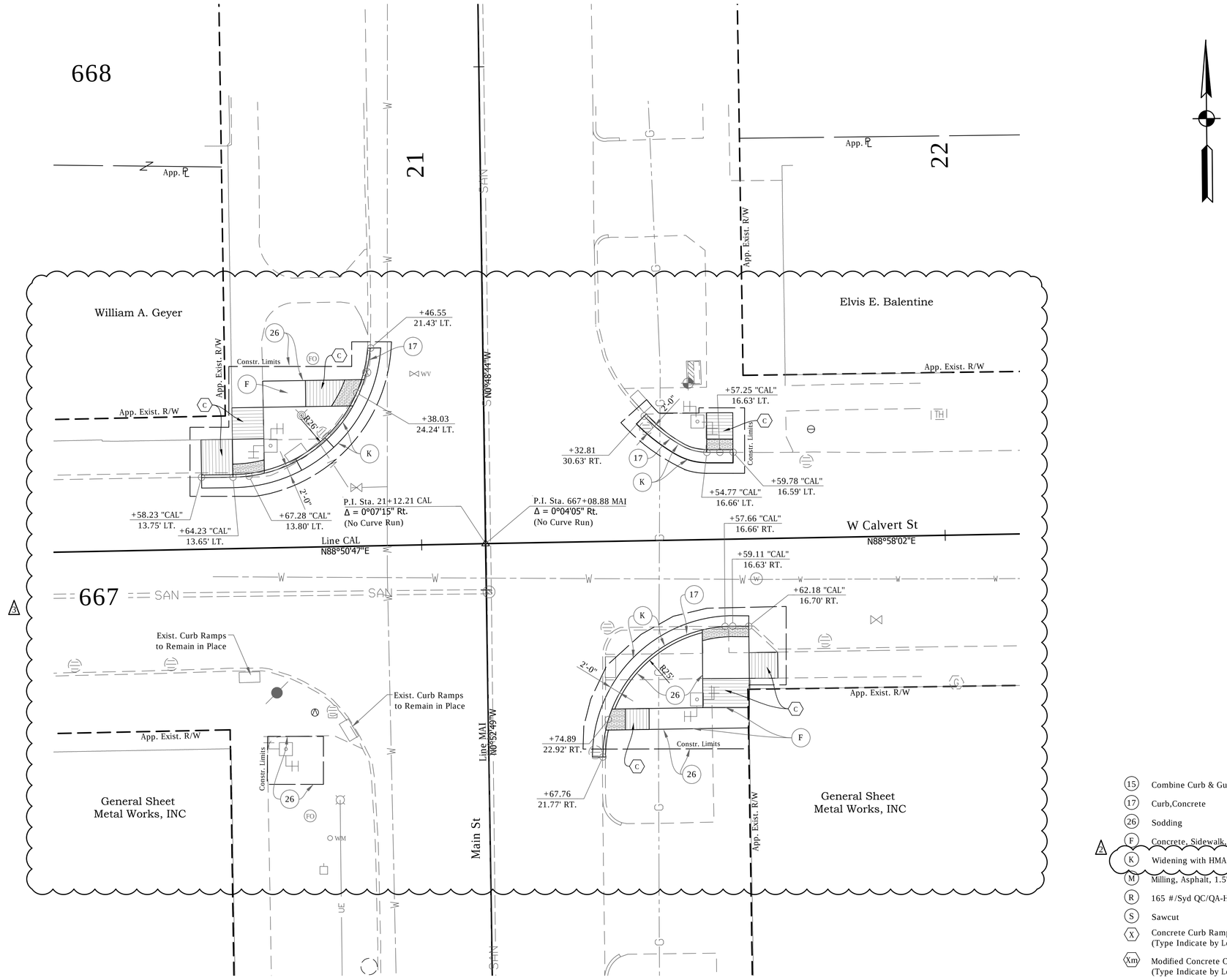


LEGEND

- (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
2/12/2016	Rev 3: Added New Curb Ramps

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: HCF III | DRAWN: BRD

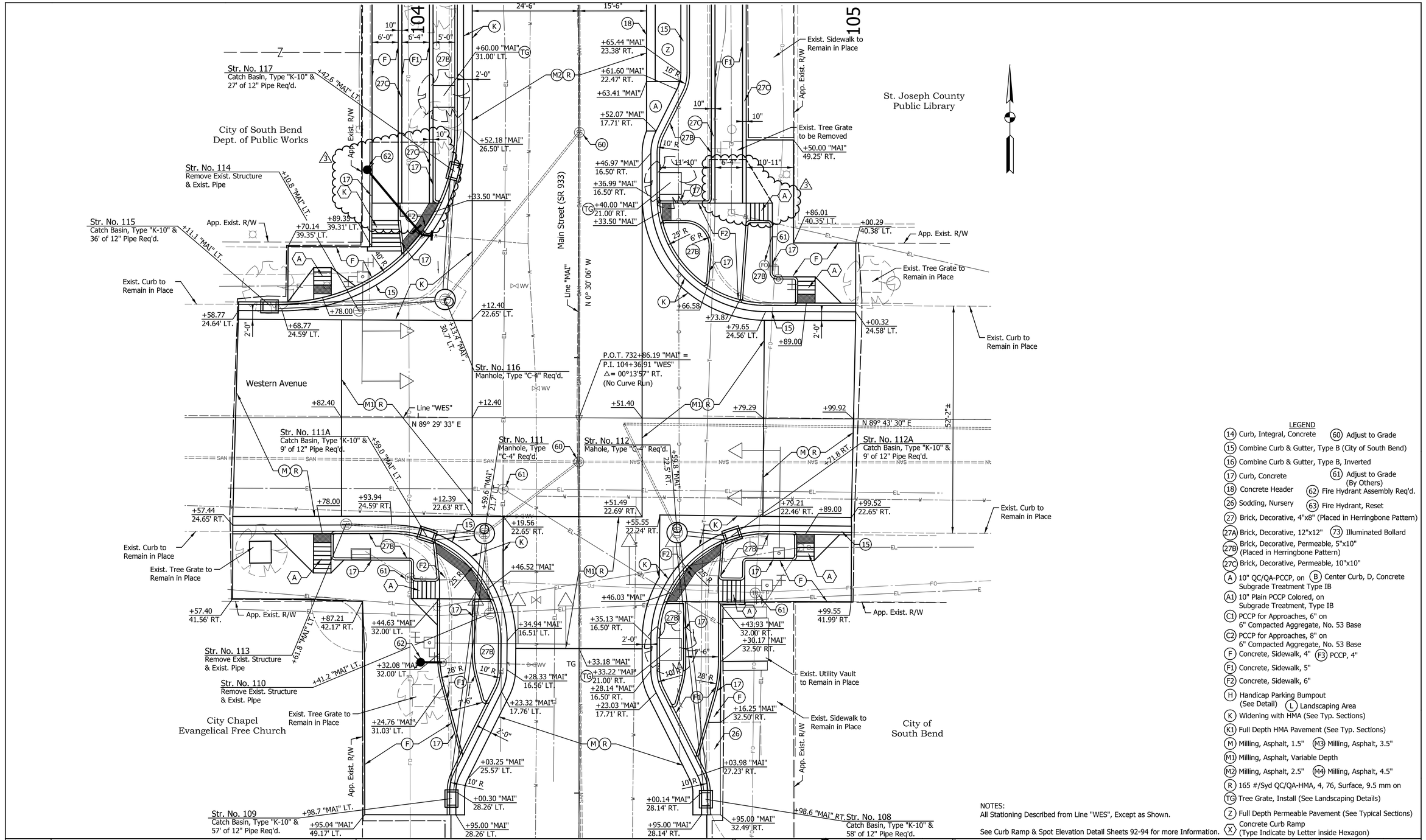
CHECKED: JG | CHECKED: JG

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\15-3329 South Bend 2-Way Conversion\DRAWINGS\CONST DET\north\
FILE.....3329 CD MAIN -calvert ST.dwg
DISK/SLE #1 ITEM/LE...10
PLOTTED BY...Brad Dodge
DATE.....Feb 15,2016 - 1:40pm



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

See Curb Ramp & Spot Elevation Detail Sheets 92-94 for more 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
(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"
(F3) PCCP, 4"
(H) Handicap Parking Bumpout (See Detail)
(K) Widening with HMA (See Typ. Sections)
(K1) Full Depth HMA Pavement (See Typ. Sections)
(L) Landscaping Area
(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

DATE	REVISION
2/12/2016	REV 3: Revised Curb Ramps

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

INTERSECTION DETAILS
MAIN ST. AT WESTERN AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	69 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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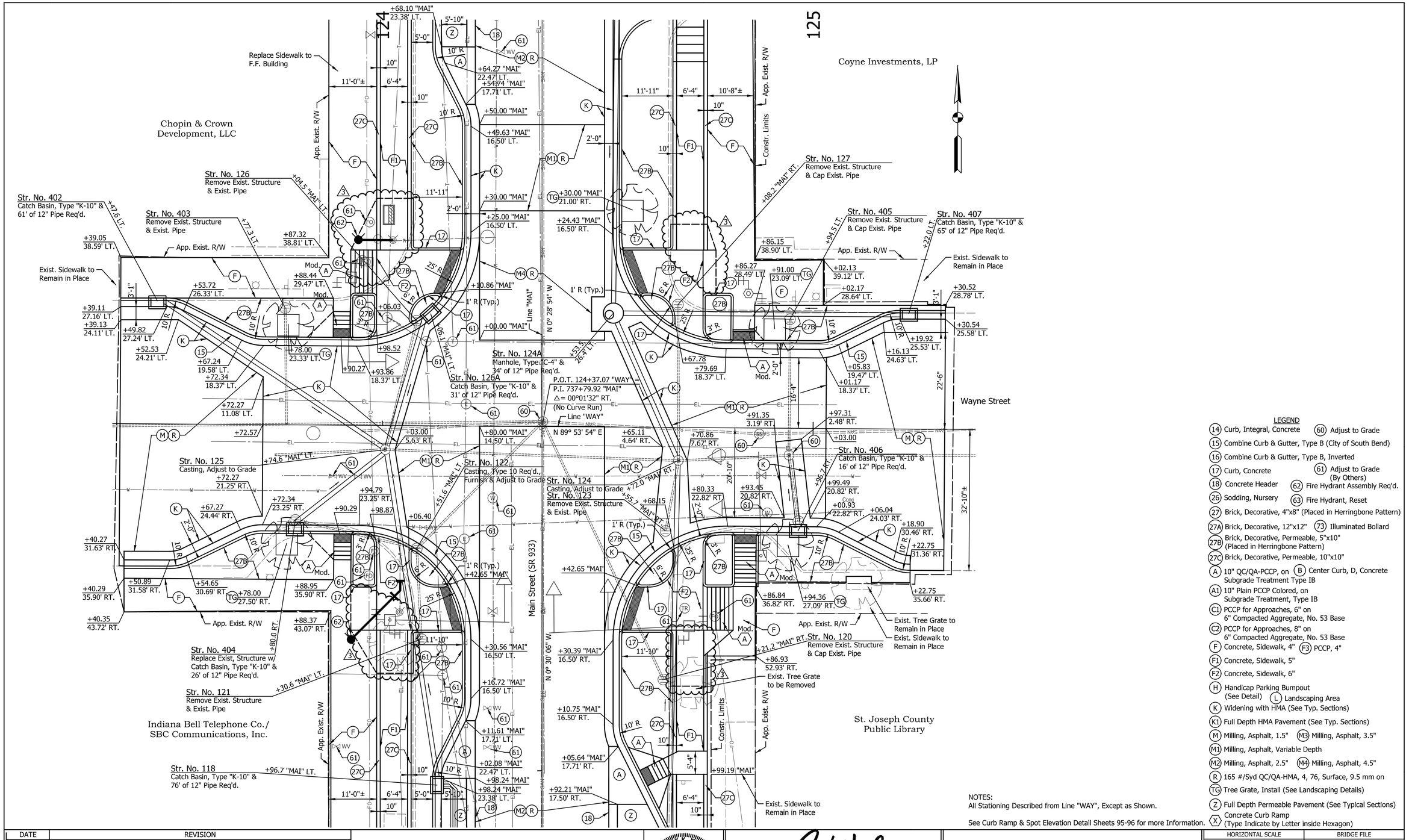

DATE	REVISION
2/12/2016	REV 3: Revised Curb Ramps

PATRICK R. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
MAIN ST. AT WAYNE ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	70 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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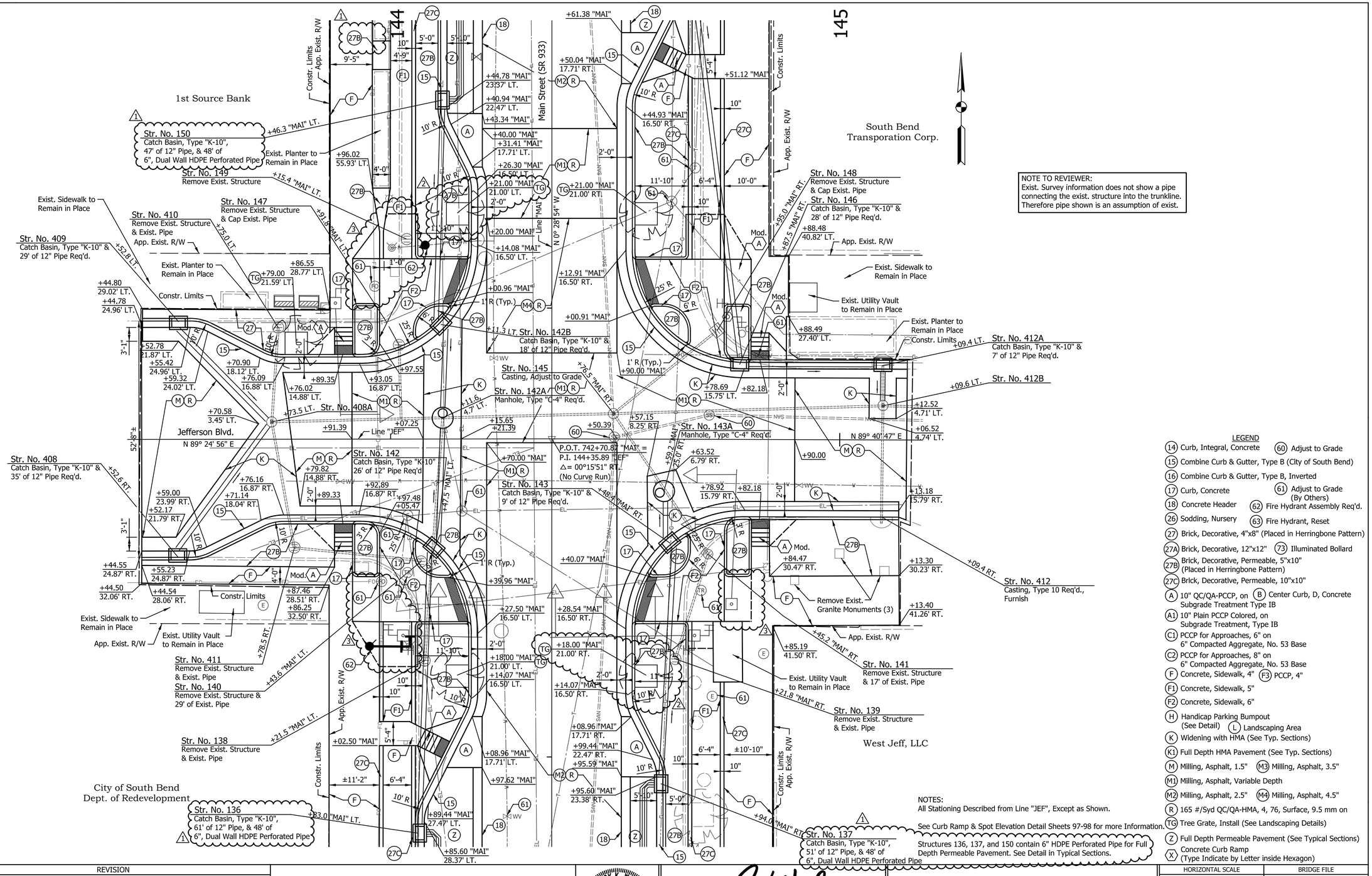

DATE	REVISION
1/15/2016	REV 1: Added Material Bubble & Revised Structure Label
1/29/2016	REV 2: Added Tree Grates
2/12/2016	REV 3: Revised Curb Ramps

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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)

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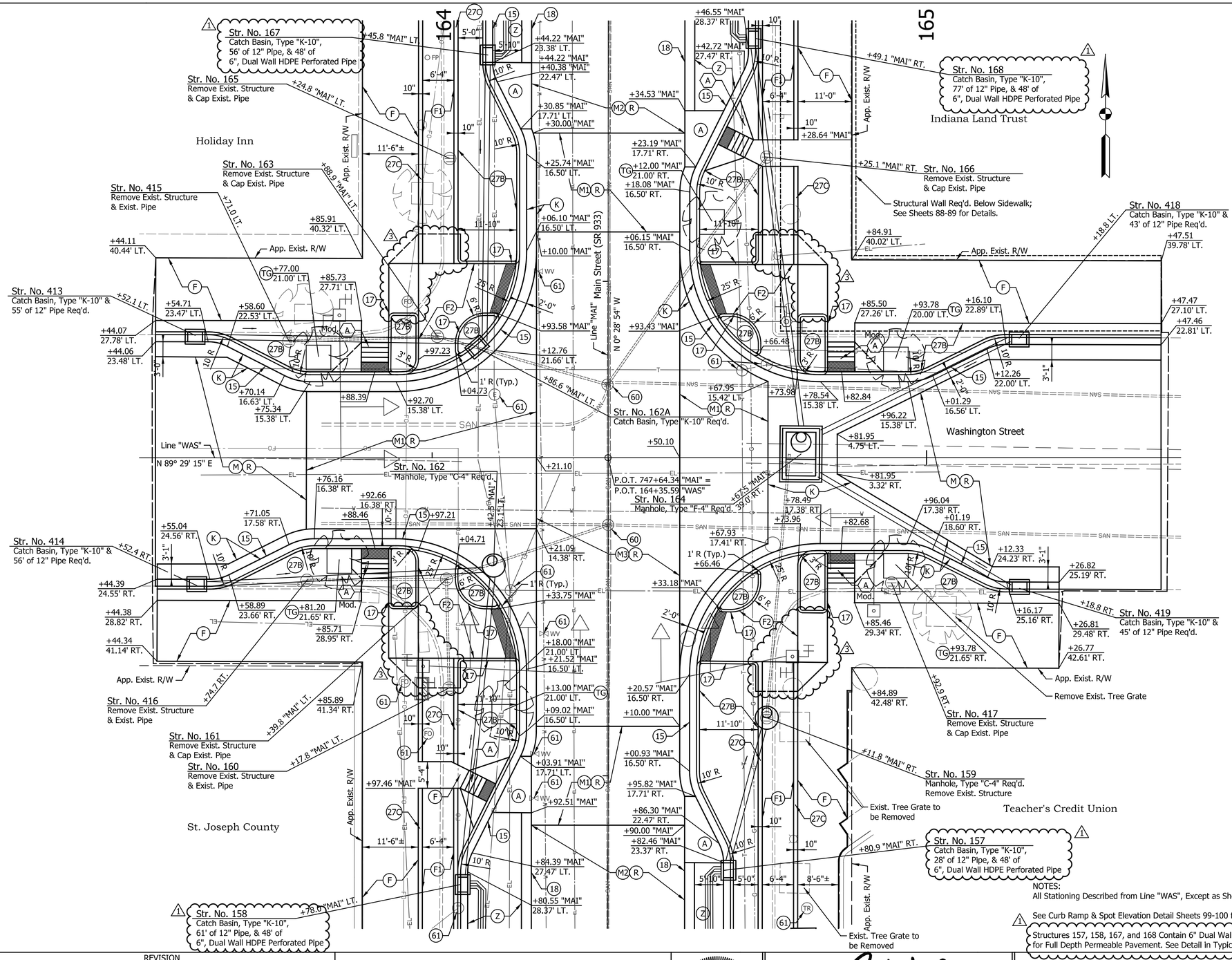

NOTES:
All Stationing Described from Line "WAS", Except as Shown.

See Curb Ramp & Spot Elevation Detail Sheets 99-100 for more Information.

Structures 157, 158, 167, and 168 Contain 6" Dual Wall HDPE Perforated Pipe for Full Depth Permeable Pavement. See Detail in Typical Sections.

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" (F3) PCCP, 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

DATE	REVISION
1/15/2016	REV 1: Revised Structure Label
2/12/2016	REV 3: Revised Curb Ramps

PATRICK R. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
MAIN ST. AT WASHINGTON ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	72 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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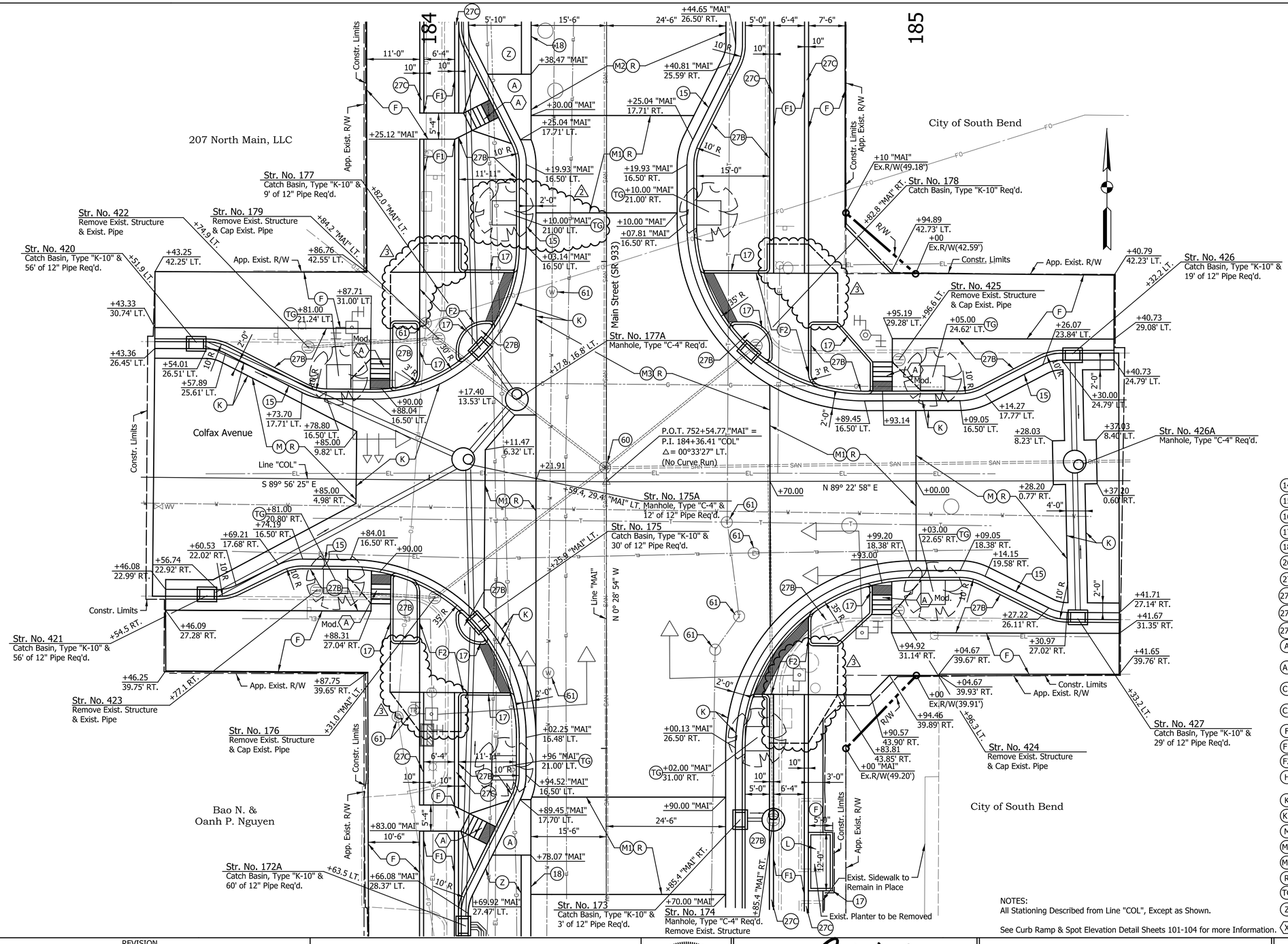

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (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" (F3) PCCP, 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

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

See Curb Ramp & Spot Elevation Detail Sheets 101-104 for more Information.

DATE	REVISION
1/29/2016	REV 2: Added Tree Grate
2/12/2016	REV 3: Revised Curb Ramps

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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)

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214

Fifth 3rd Bank

QDI Realty, LLC

Equal Holdings XII, LLC

1st Source Bank

LaSalle Avenue

Main Street (SR 933)

App. Exist. R/W

END PROJECT
757+75.64 "MAI"

Constr. Limits

Exist. Sidewalk to Remain in Place

Exist. Curb to Remain in Place

+22.35
26.36' LT.

+67.10
26.18' LT.

P.O.T. 757+49.32 "MAI" =
P.I. 213+92.71 "LAS"
△= 00°08'50" LT.
(No Curve Run)

N 89° 47' 01" E

N 89° 38' 11" E

Line "LAS"

Line "MAI"
N 0° 28' 54" W

Str. No. 429
Remove Exist. Structure & 32 LFT of Exist. Pipe

+34.6 RT.

Str. No. 185A
Manhole, Type "C-4" Req'd.

+17.9 "MAI", 22.6' LT.

Str. No. 430
Manhole, Type "C-4" & Remove Exist. Structure Req'd.

+57.8 RT.

+54.62
21.52' RT.

Str. No. 184A
Manhole, Type "C-4" & 36' of 12" Pipe Req'd.

+11.9 "MAI", 27.2' RT.

+31.73
21.00' RT.

+31.24
23.69' RT.

+38.87
22.82' RT.

+71.46
27.52' RT.

+25.64
34.14' RT.

+42.90
26.13' RT.

+45.82
32.47' RT.

+61.12
21.52' RT.

+44.00

+67.10
32.52' RT.

Exist. Curb to Remain in Place

+22.35
24.87' RT.

+22.41
36.84' RT.

+37.88
36.78' RT.

+52.00

+15.66
34.14' RT.

+15.62
40.37' RT.

+17.97
40.45' RT.

+97.09 "MAI"
25.33' RT.

+90.33 "MAI"
26.50' RT.

+90.93 "MAI"

+98.8 "MAI" RT.

+51.95
40.06' RT.

+67.09
40.00' RT.

Exist. Sidewalk to Remain in Place
App. Exist. R/W

Constr. Limits

+35
Ex.R/W(39.61')

R/W

+29.2 RT.

+05.00 "MAI"
49.79' LT.

+00
Ex.R/W(49.91')

46' R

35' R

5'-6"

Str. No. 428
Catch Basin, Type "K-10" & 33' of 12" Pipe Req'd.

Str. No. 431
Catch Basin, Type "K-10" & 7' of 12" Pipe Req'd.

Str. No. 187
Remove Exist. Structure & Cap Exist. Pipe

+96.6 "MAI" LT.

Str. No. 186
Remove Exist. Structure & Cap Exist. Pipe

+77.36 "MAI"
23.37' LT.

+81.6 "MAI" RT.

Str. No. 184
Catch Basin, Type "K-10" & 26' of 12" Pipe Req'd.

+82.2 "MAI" LT.

Str. No. 185
Catch Basin, Type "K-10" & 32' of 12" Pipe Req'd.

+58.00 "MAI"

2'-0"
5'-0"
6'-4"
±7'-6"
±11'-2"
5'-10"
15'-6"

10"

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

See Curb Ramp & Spot Elevation Detail Sheets 105-106 for more 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
(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" (F3) PCCP, 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

DATE	REVISION
2/12/2016	REV 3: Revised Curb Ramps

PATRICK R. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
MAIN ST. AT LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	74 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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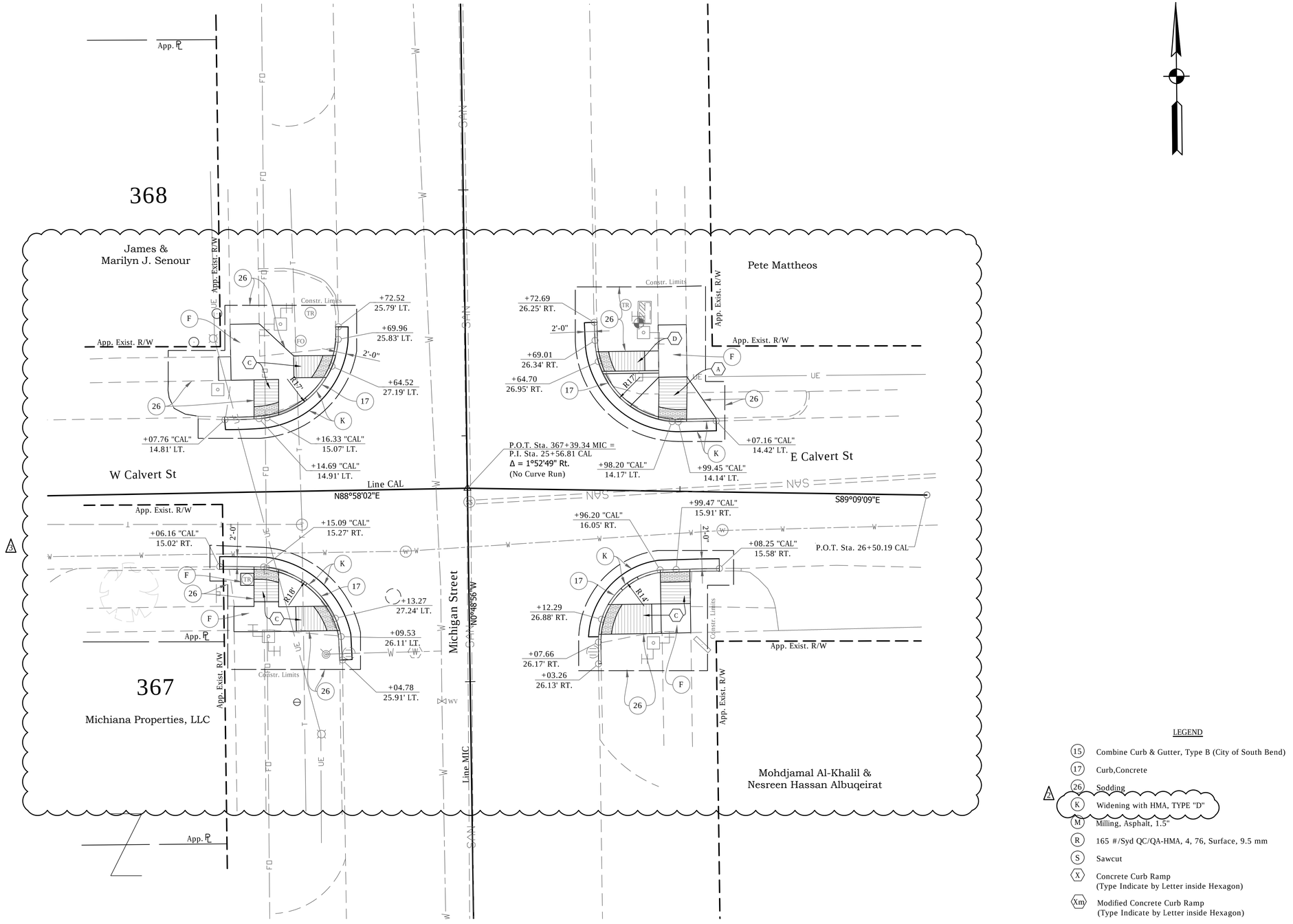

LEGEND

- (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
2/12/2016	Rev 3: Added New Curb Ramps

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: HCF III | DRAWN: BRD

CHECKED: JG | CHECKED: JG

CITY OF SOUTH BEND

INTERSECTION DETAILS
MICHIGAN ST. AT CALVERT ST.

HORIZONTAL SCALE	BRIDGE FILE
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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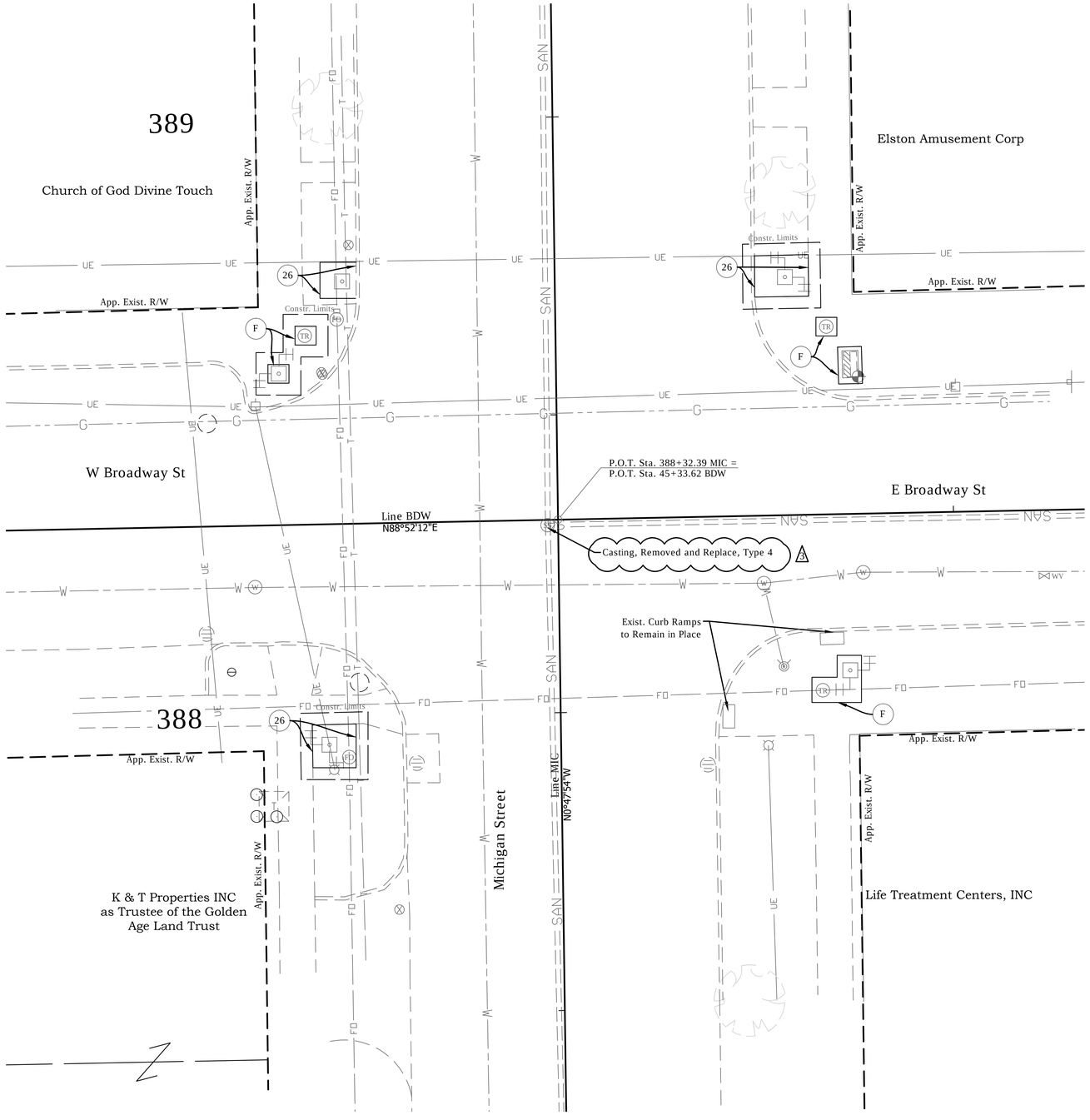
LAYOUT.....Layout1
DATE.....Feb 15,2016 - 1:42pm



LEGEND

- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (17) Curb,Concrete
- (26) Sodding
- △2 (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
2/12/2016	Rev 3: Add Note

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

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\15-3329 South Bend 2-Way Conversion\DRAWINGS\CONST DET\month\
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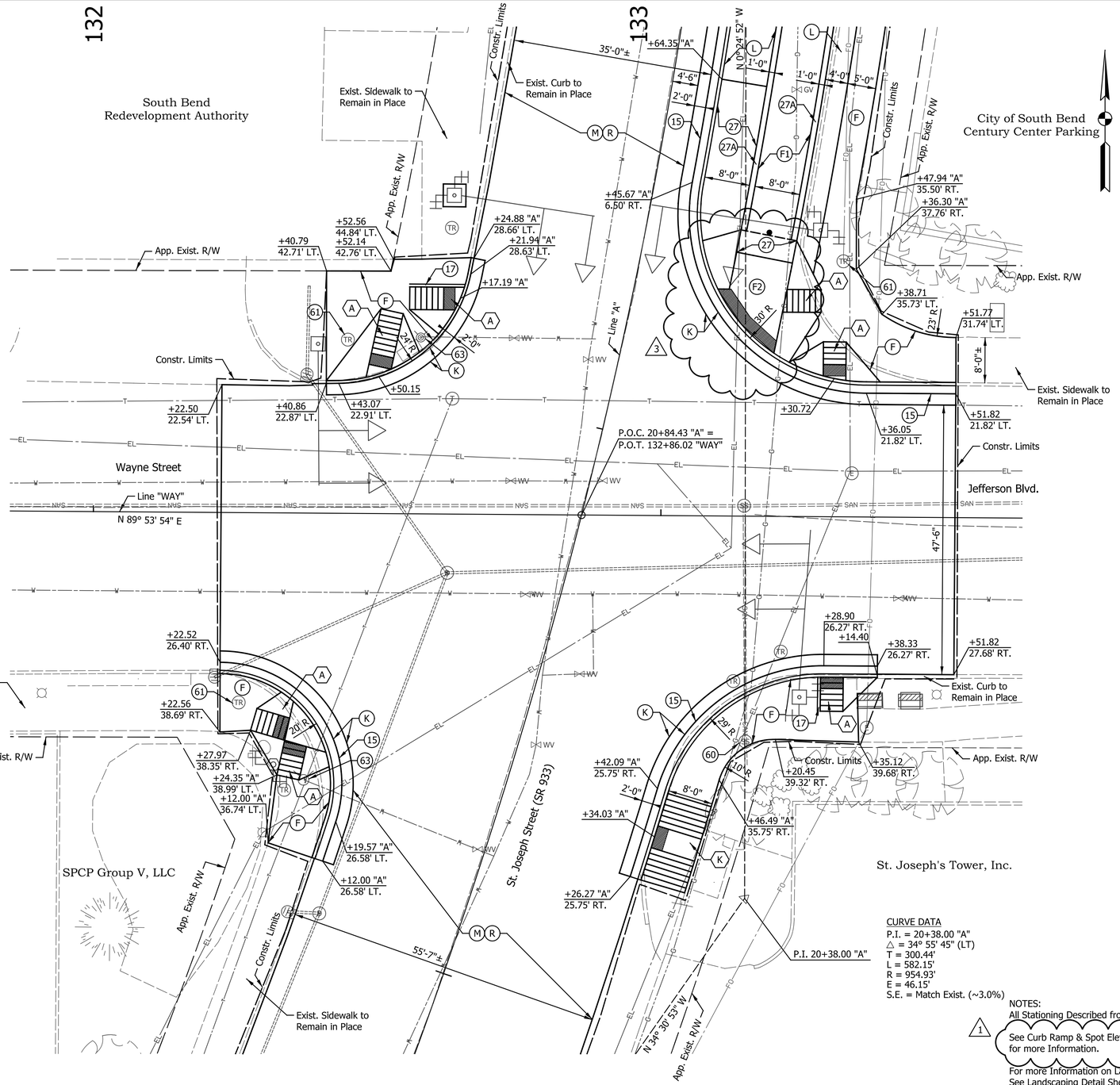

CURVE DATA
P.I. = 20+38.00 "A"
△ = 34° 55' 45" (LT)
T = 300.44'
L = 582.15'
R = 954.93'
E = 46.15'
S.E. = Match Exist. (~3.0%)

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

1 See Curb Ramp & Spot Elevation Detail Sheets 107-7 & 108 for more Information.

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

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" (F3) PCCP, 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

DATE	REVISION
1/15/2016	REV 1: Added Note
2/12/2016	REV 3: Revised Transitions

PATRICK R. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

INTERSECTION DETAILS
ST. JOSEPH ST. AT WAYNE ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	81 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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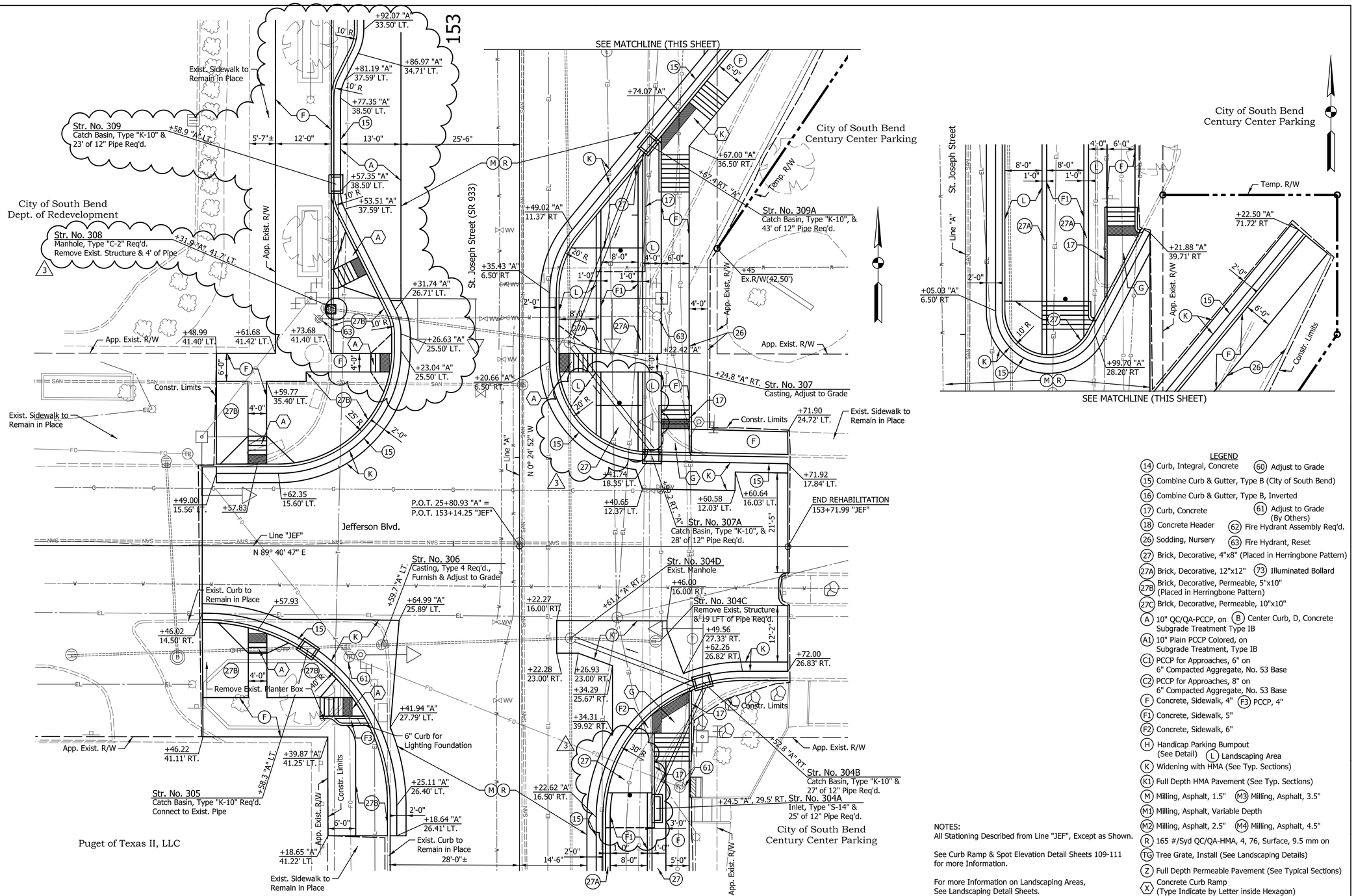

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (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" (F3) PCCP, 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

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

See Curb Ramp & Spot Elevation Detail Sheets 109-111 for more Information.

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

DATE	REVISION
2/12/2016	REV 3: Revised Transitions

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
ST. JOSEPH ST. AT JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	82 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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MATCH LINE (SEE THIS SHEET)

Exist. Sidewalk to Remain in Place

Constr. Limits

App. Exist. R/W

Jenna Hotel Investments, LLC

App. Exist. R/W

+38.50 "RW-1"

+35.25 "RW-1"

Proposed Drinking Fountain (See Detail this Sheet)

+38.00 "RW-1"

Exist. Retaining Wall to Remain in Place & Buried

Constr. Limits

App. Exist. R/W

SUSPEND REHABILITATION
BEGIN RECONSTRUCTION
31+03.00 "RW-1"

5'-0" 12'-0" 8'-0" 5'-6" 6'-6" 1'-0" 8'-0" 1'-0" 8'-0" 4'-0" 5'-0"

Line "RW-1"

+73.58 "RW-1"
25.50' LT.

3 R 3 R

+62.50
23.23' LT.

+95.80 "RW-1"

+98.50 "RW-1"

+73.58 "RW-1"
6.50' RT.

+80.41 "RW-1"

+73.58 "RW-1"
35.50' RT.

+73.58 "RW-1"
41.87' RT.

Str. No. 316A
Manhole, Type "C-4"

+80.3 "RW-1"
9.4' RT.

+78.9 "RW-1", 28.4' RT.

Str. No. 316D
Catch Basin, Type "K-10" & 15' of 12" Pipe Req'd.

Exist. Curb to Remain in Place

+61.11
11.09' LT.

+70.36

+72.40
10.91' LT.

Washington Street

Line "WAS"

N 89° 29' 15" E

P.O.T. 30+77.34 "RW-1" =
P.O.T. 173+14.53 "WAS"

+73.58 "RW-1"
36.97' RT.

+73.58 "RW-1"
41.73' RT.

+73.58 "RW-1"
4.50' RT.

+73.58 "RW-1"
22.13' RT.

+59.13
11.67' RT.

+62.72
11.69' RT.

+70.00

Exist. Sidewalk to Remain in Place

P.O.T. 30+73.58 "A" =
P.O.T. 30+73.57 "RW-1"

+63.34 "A"
18.47' RT.

+72 "A"

Business Approach Req'd.
W = 13.0'

+57.98 "A"
40.27' RT.

+51.94 "A"
6.50' RT.

+50.38 "A"

+59.08
20.95' RT.

+50.40 "A"
40.17' RT.

+48.38 "A"
42.15' RT.

+66.45
28.76' RT.

+50.00 "A"

+39.15 "A"
25.50' LT.

+37.50 "A"
30.00' LT.

+34.27 "A"
25.50' LT.

+30.0 "A" RT. Str. No. 316B
Mod. Catch Basin, Type "K-10" Req'd.

+29.17 "A"
26.70' LT.

+29.79 "A"

+19.00 "A"

+30.0 "A", 12.2' RT. Str. No. 316C
Inlet, Type "A-2" & 2' of 12" Pipe Req'd.

+17.34 "A"
32.60' LT.

+13.51 "A"
33.50' LT.

St. Joseph Street (SR 933)

Line "A"

N 0° 24' 52" W

Do Not Disturb Exist. Statue

+90.92 "A"

+85.84 "A"

+78.00 "A"

Exist. Tree to Remain in Place

Exist. Retaining Wall to Remain in Place

+64.89 "A"

Exist. Sidewalk to Remain in Place

City of South Bend
Dept. of Redevelopment

City of South Bend
Century Center Parking

+60.86 "RW-1" +62.31 "RW-1"
9.53' LT.

+58.00 "RW-1"

MATCH LINE (SEE THIS SHEET)

ALTERNATE WORK ITEMS
FOUNTAIN INSTALLATION

- Pedestal Mounted Drinking Fountain (See Landscaping Detail Sheet 136)
- Proposed Water Service Supply
- Saddle Tap with ¾" Corporation Stop
- Curb Stop with Curb Box

Drinking Fountain Detail

¾" Copper Drinking Fountain Service Line, 5'-0" Min. Cover Req'd.

1 ¼" CI 160 PVC SDR 26 Drain line with 90° bend turn down inside Exist. Inlet Req'd. 36" Min. Cover Req'd.

Pedestal Mounted Drinking Fountain See Landscaping Plans, Sheet 136

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

See Curb Ramp & Spot Elevation Detail Sheets 112-113 for more Information.

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

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" (F3) PCCP, 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

DATE	REVISION
2/12/2016	REV 3: Revised Transitions & Added Fountain Installation as Alternate Work Items

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
ST. JOSEPH ST. AT WASHINGTON ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	83 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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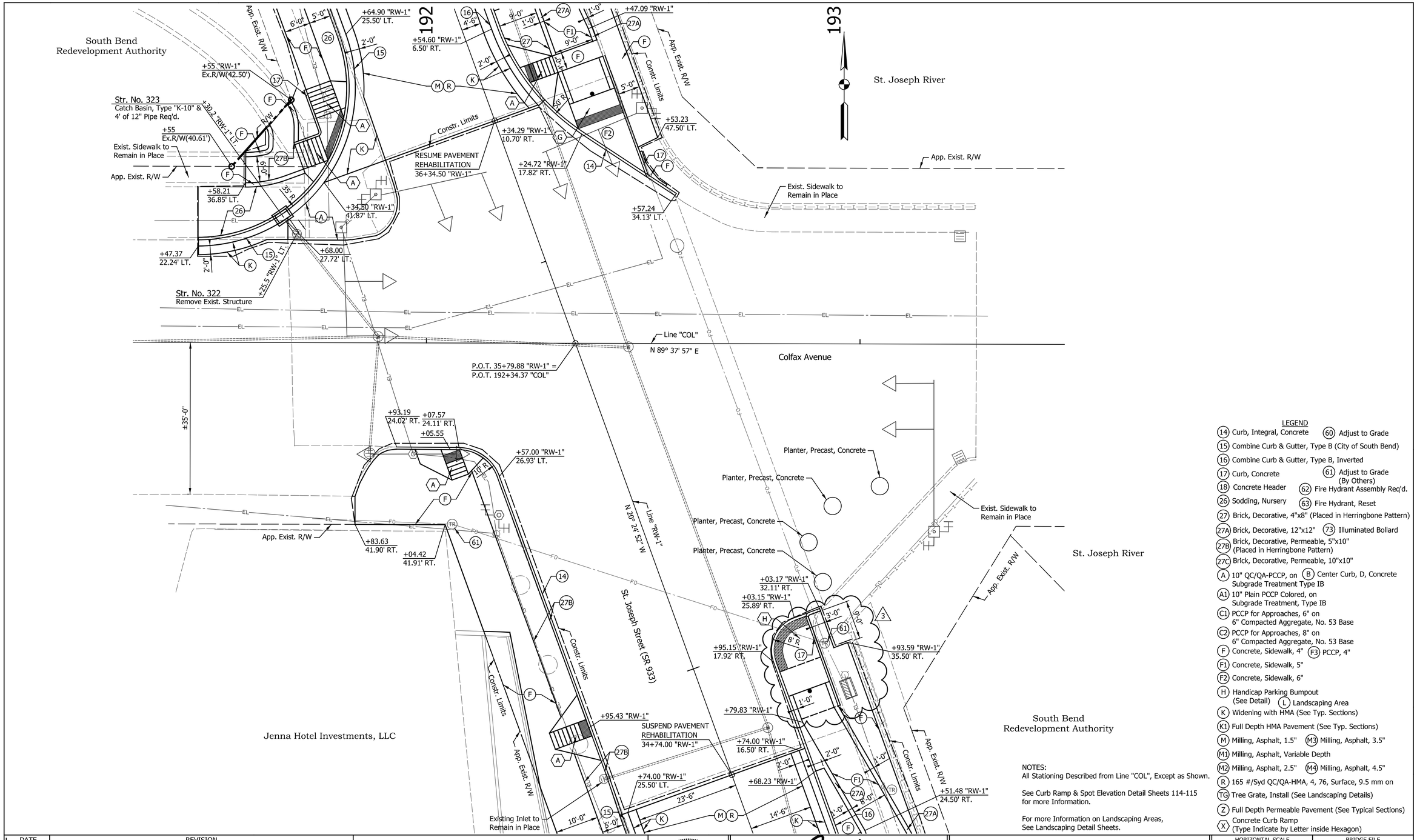

LEGEND

- (14) Curb, Integral, Concrete
- (15) Combine Curb & Gutter, Type B (City of South Bend)
- (16) Combine Curb & Gutter, Type B, Inverted
- (17) Curb, Concrete
- (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" (F3) PCCP, 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

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

See Curb Ramp & Spot Elevation Detail Sheets 114-115 for more Information.

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

DATE	REVISION
2/12/2016	REV 3: Revised Transitions

PATRICK R. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

INTERSECTION DETAILS
ST. JOSEPH ST. AT COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	84 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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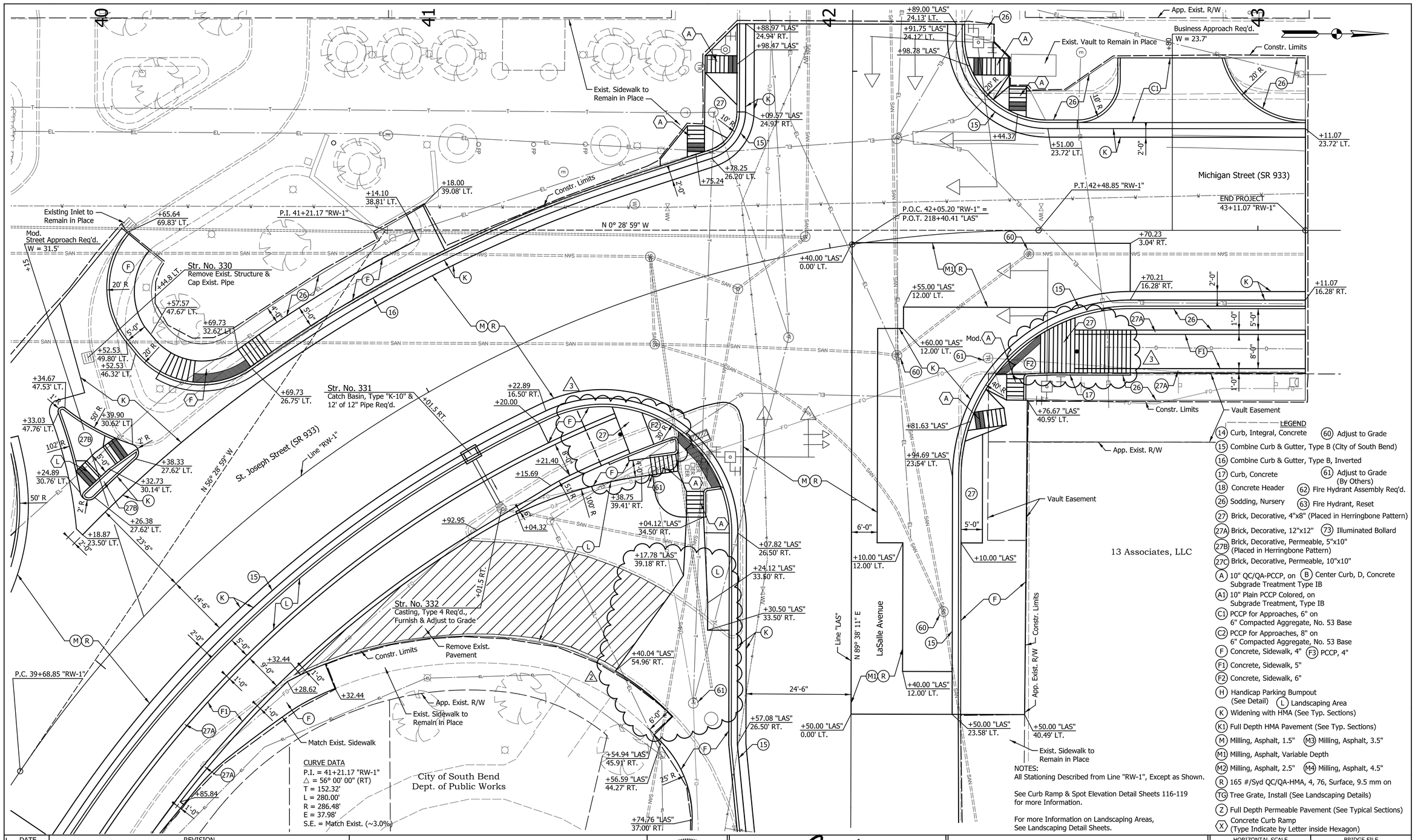

DATE	REVISION
1/29/2016	REV 2: Revised Sidewalk
2/12/2016	REV 3: Revised Transitions

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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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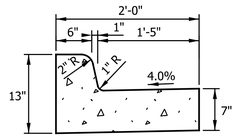
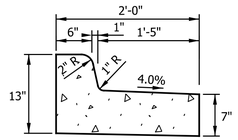
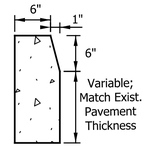


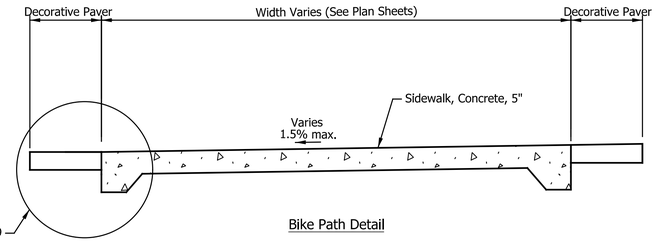
Combined Concrete Curb & Gutter, Type B



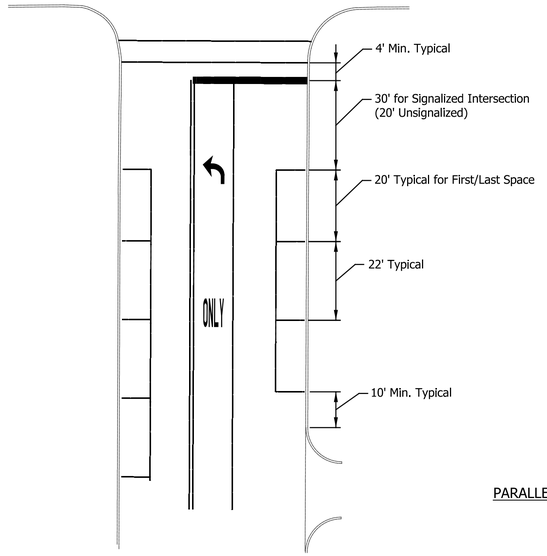
Combined Concrete Curb & Gutter, Type B, Inverted



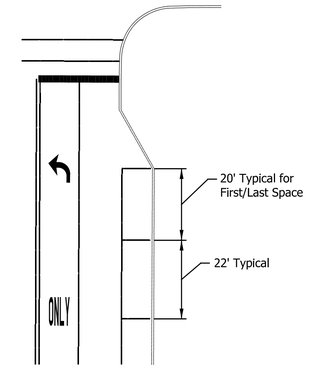
Integral Concrete Curb



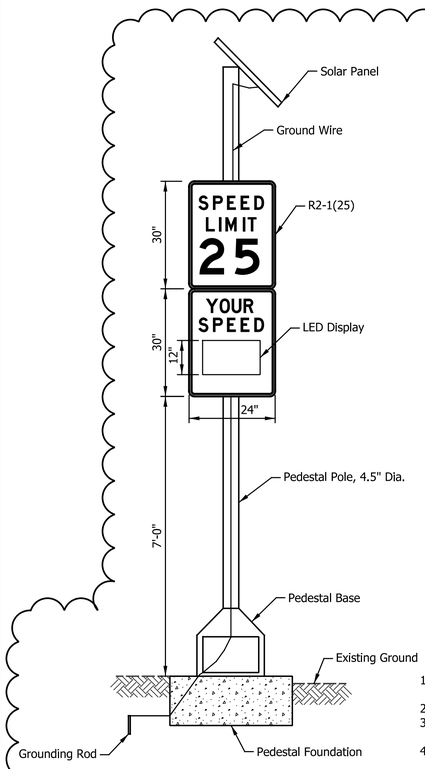
Bike Path Detail



PARALLEL PARKING SPACE DETAIL



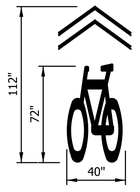
PARALLEL PARKING SPACE NEAR CURB BUMPOUT DETAIL



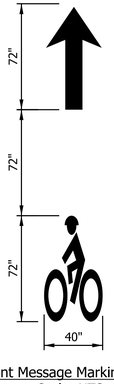
Solar Powered Signal Pedestal Detail, SP-1
Scale: NTS

GENERAL NOTES

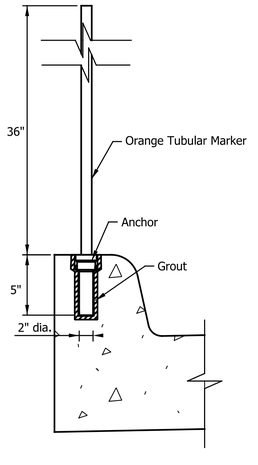
1. All signs shall conform to the Indiana Manual on Uniform Traffic Control Devices (MUTCD) for streets and Highways, latest edition.
2. All sign details are from Indiana MUTCD, latest edition.
3. In areas where lateral offsets are limited, a minimum lateral offset of 2 feet may be used.
4. Street ID signs which are currently mounted on utility poles shall be removed and reset on a new sign post.
5. All temporary traffic control shall be in accordance with the Indiana MUTCD.
6. For standard signs not detailed, refer to Indiana MUTCD, latest edition.
7. Pedestal base and pole for SP-1 shall be black powder coated.



Pavement Message Marking, Share the Road
Scale: NTS

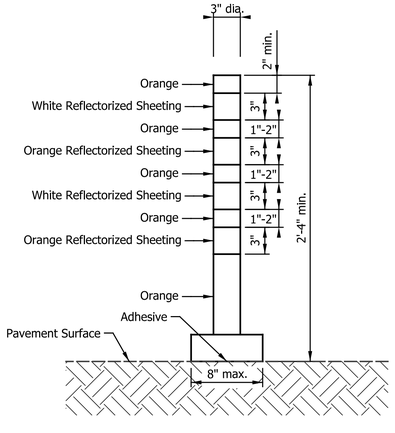


Pavement Message Marking, Bike Lane
Scale: NTS



Note: See Specifications for Installation Details.

Curb Identification Marker
See Pavement Marking Sheets For Locations



Note: Minimum flexible tubular marker base area shall be 0.3 sq. ft.
See INDOT Std. Specifications for Installation Details.

Permanent Flexible Tubular Marker
See Pavement Marking Sheets For Locations

DATE	REVISION
2/12/2016	REV 3: Added Details

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	86 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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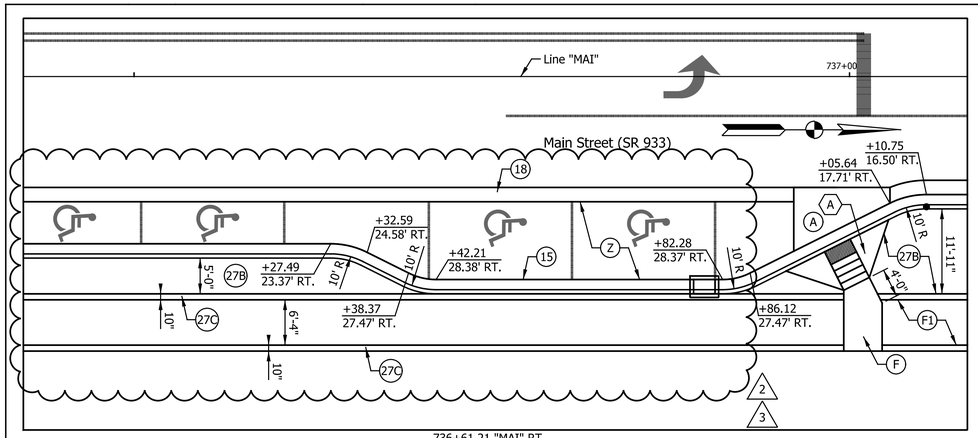
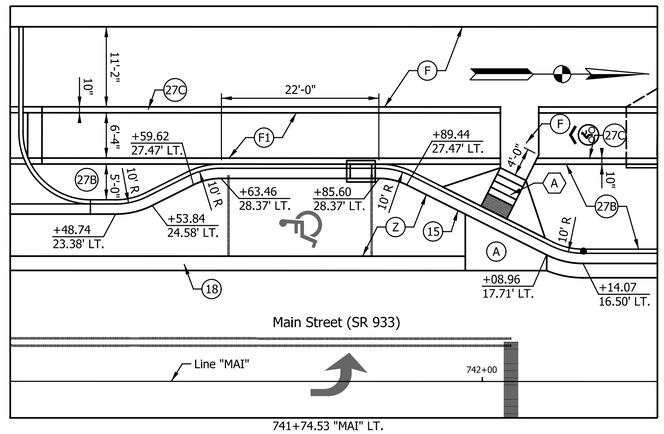
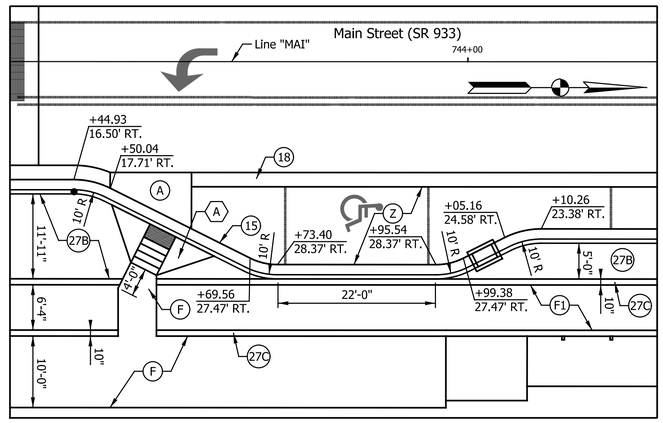


736+61.21 "MAI" RT.



741+74.53 "MAI" LT.



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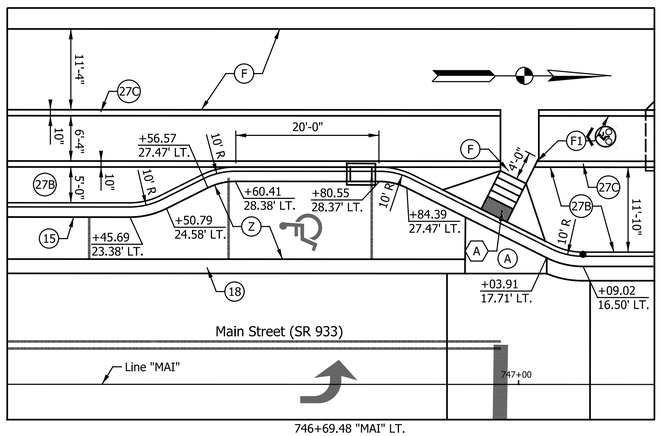
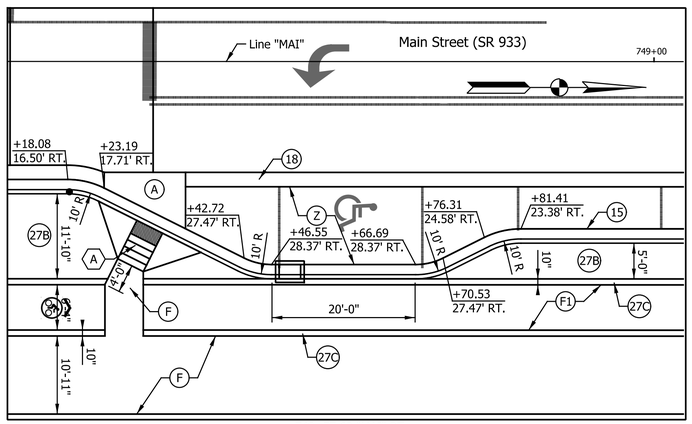
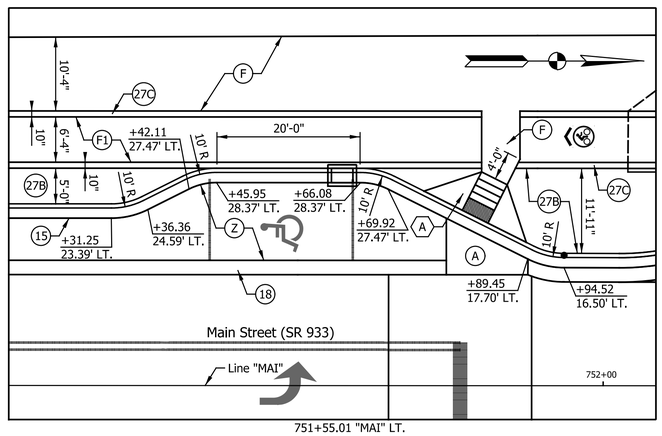


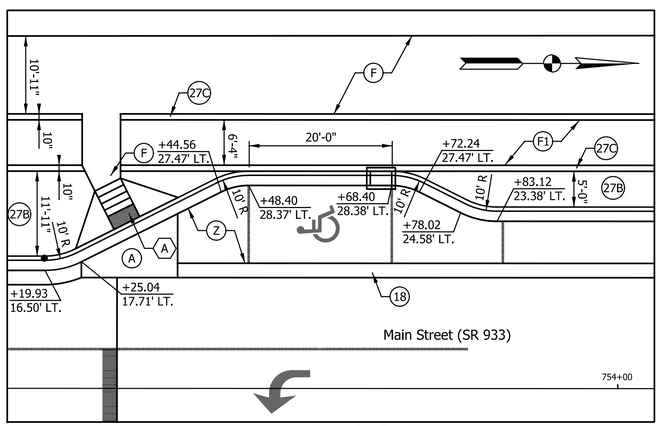
746+69.48 "MAI" LT.



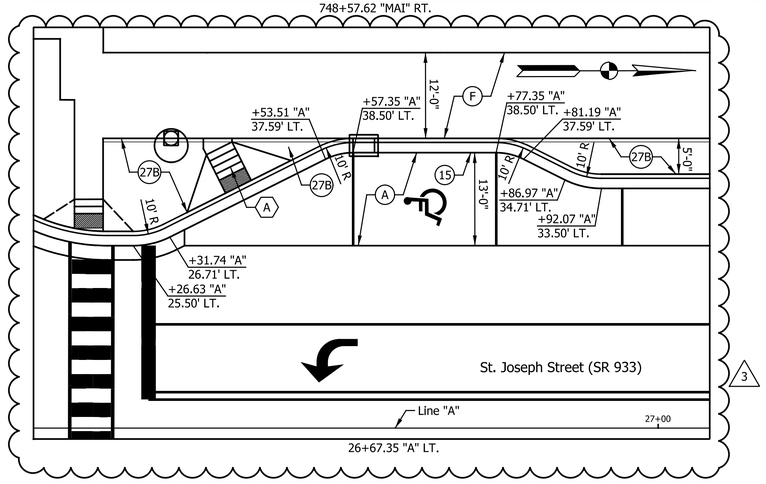
748+57.62 "MAI" RT.



751+55.01 "MAI" LT.



753+58.40 "MAI" LT.



26+67.35 "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 Addtional Handicap Parking
2/12/2016	REV 3: Added Addtional Handicap Parking

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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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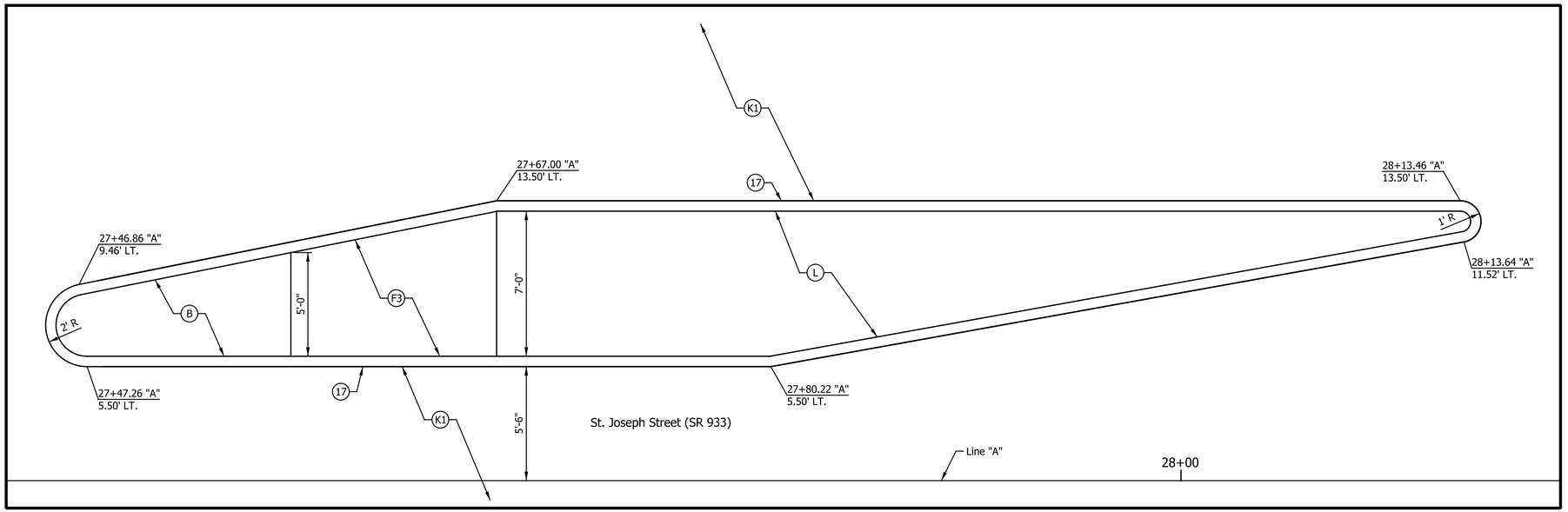

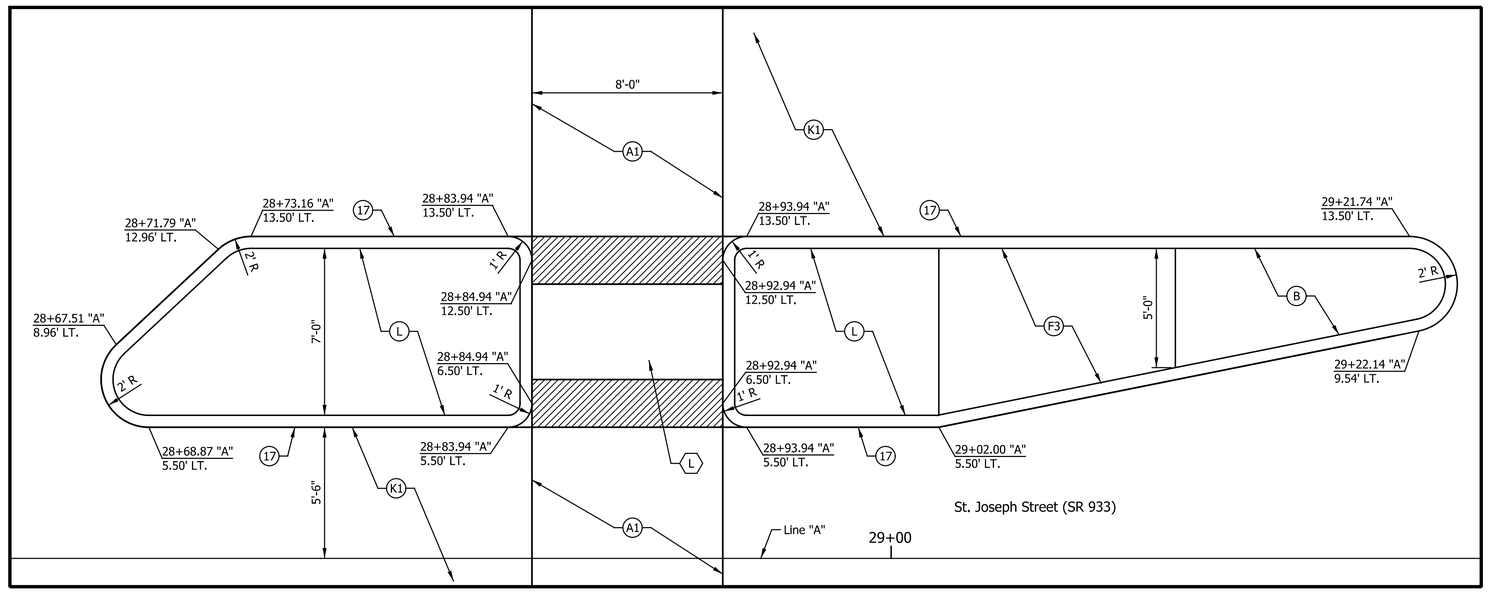

DATE	REVISION
2/12/2016	REV 3: Added Sheet

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 2/12/2016 DATE

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

CITY OF SOUTH BEND

MEDIAN ISLAND DETAILS
ST JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	90-1 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-shtf.shtfg
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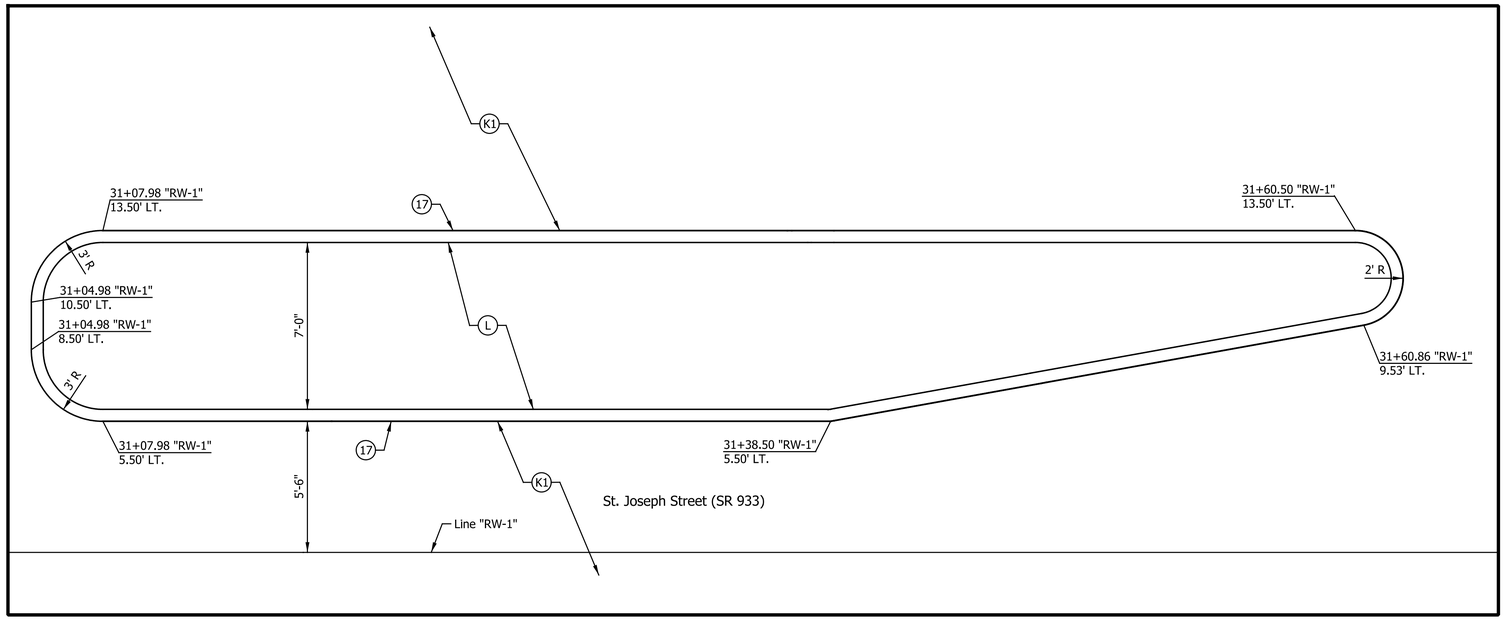

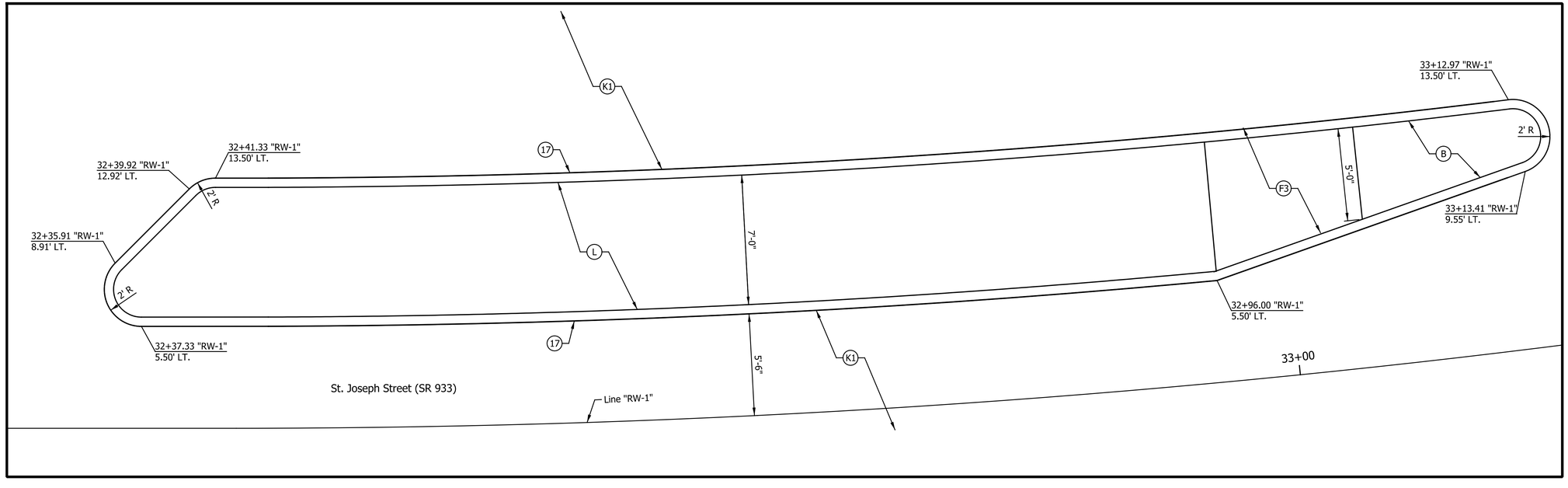

DATE	REVISION
2/12/2016	REV 3: Added Sheet

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

PATRICK K. WOOLEY
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 2/12/2016 DATE

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

CITY OF SOUTH BEND

MEDIAN ISLAND DETAILS
ST JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	90-2 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy+Arf.dfcfg
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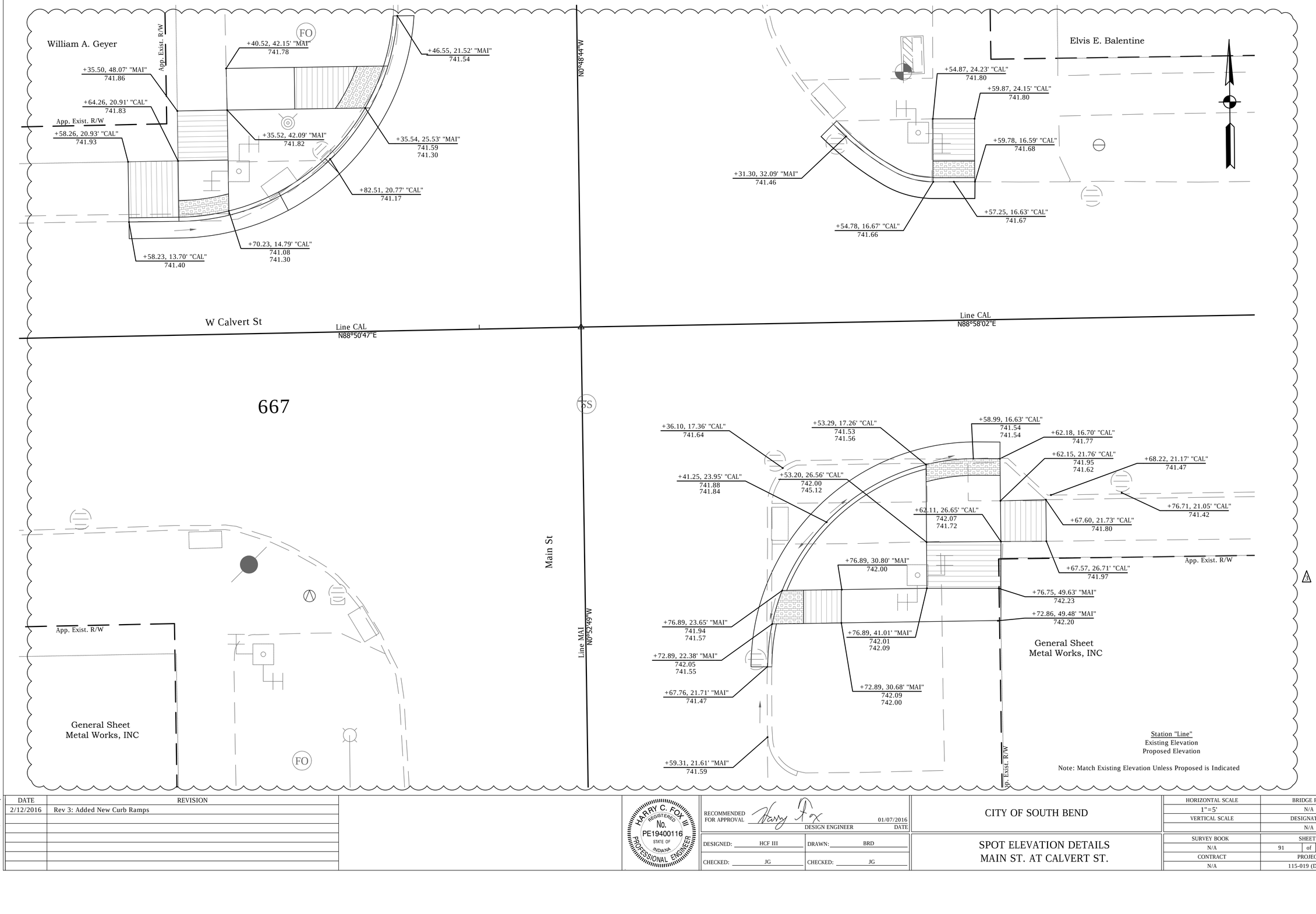

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PLOTTED.....Feb 15, 2016 - 1:58pm
DATE.....Feb 15,2016 - 1:58pm

DATE	REVISION
2/12/2016	Rev 3: Added New Curb Ramps

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

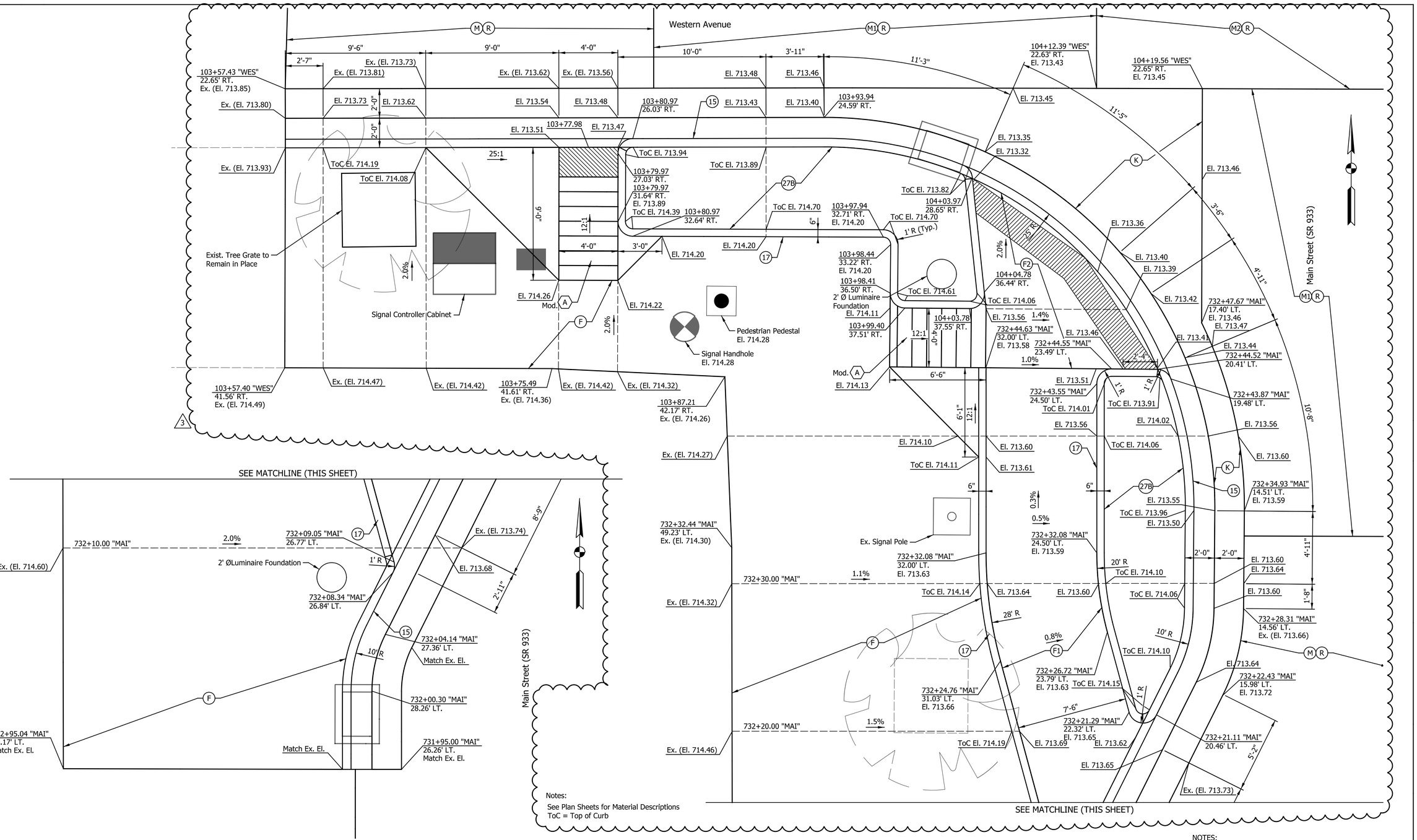
DESIGNED: HCF III — DRAWN: BRD

CHECKED: JG — CHECKED: JG

CITY OF SOUTH BEND

SPOT ELEVATION DETAILS
MAIN ST. AT CALVERT ST.

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	91 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.W. COR. OF MAIN ST. & WESTERN AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	92 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:06:41 PM P:\2014\01351\D. Drawings\201401351.RD.MD.WES_MAIN_SW.dgn

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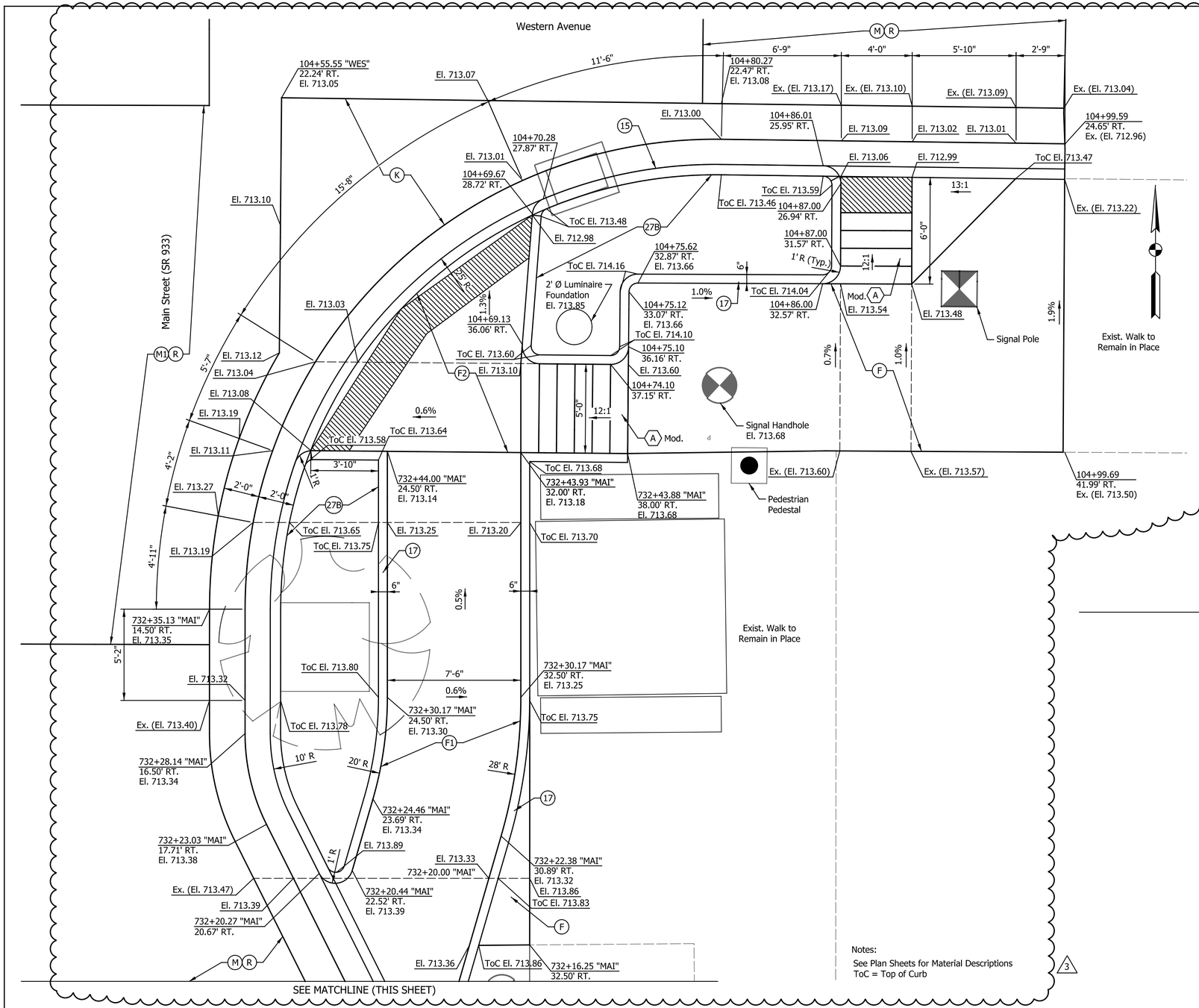

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK R. WOOLER
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.E. COR. OF MAIN ST. & WESTERN AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	93 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Inch-Perf.dft.cfg
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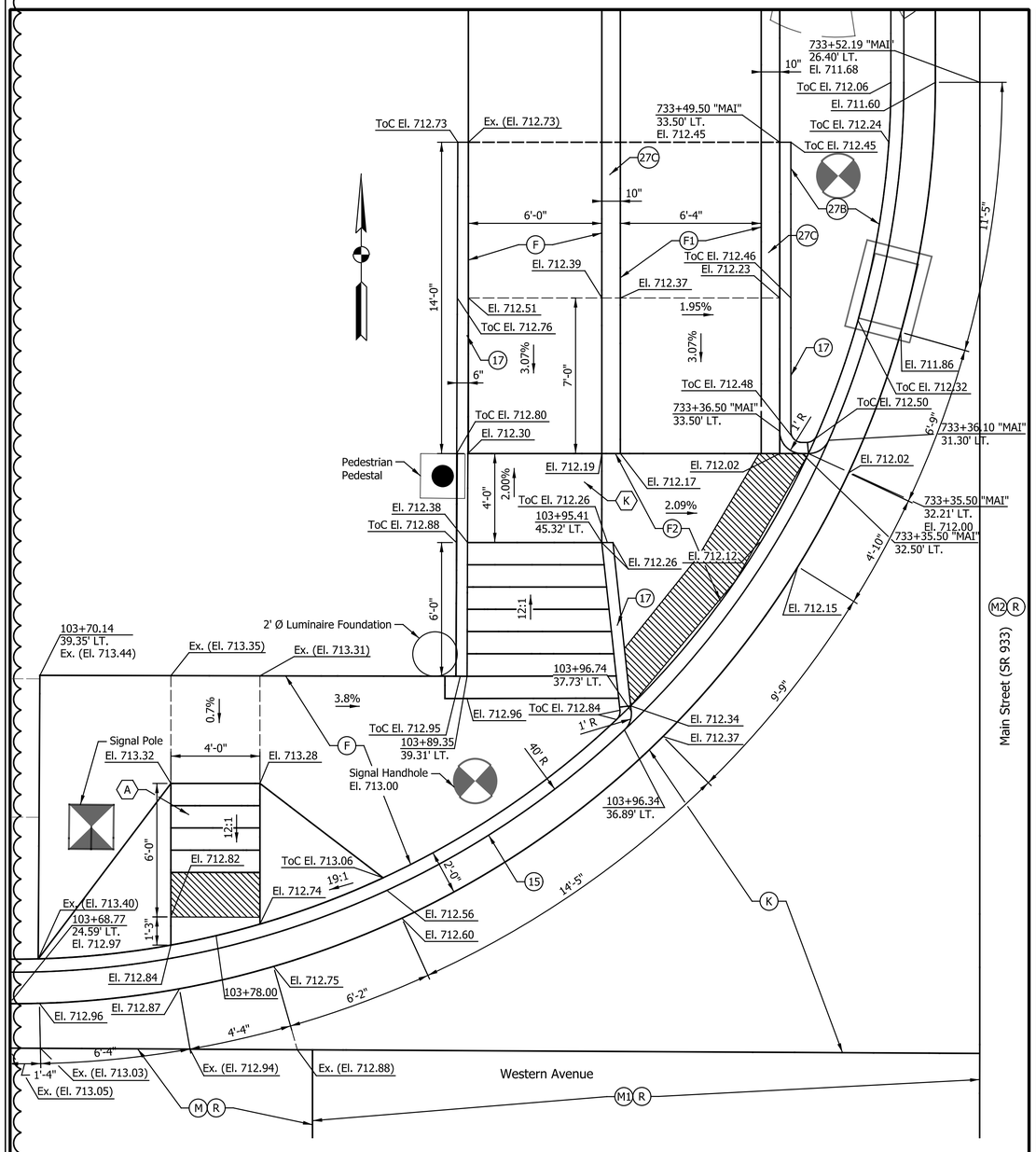

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N. SIDE OF MAIN ST. AT WESTERN AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	94 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indx-Pdf.dfcfg
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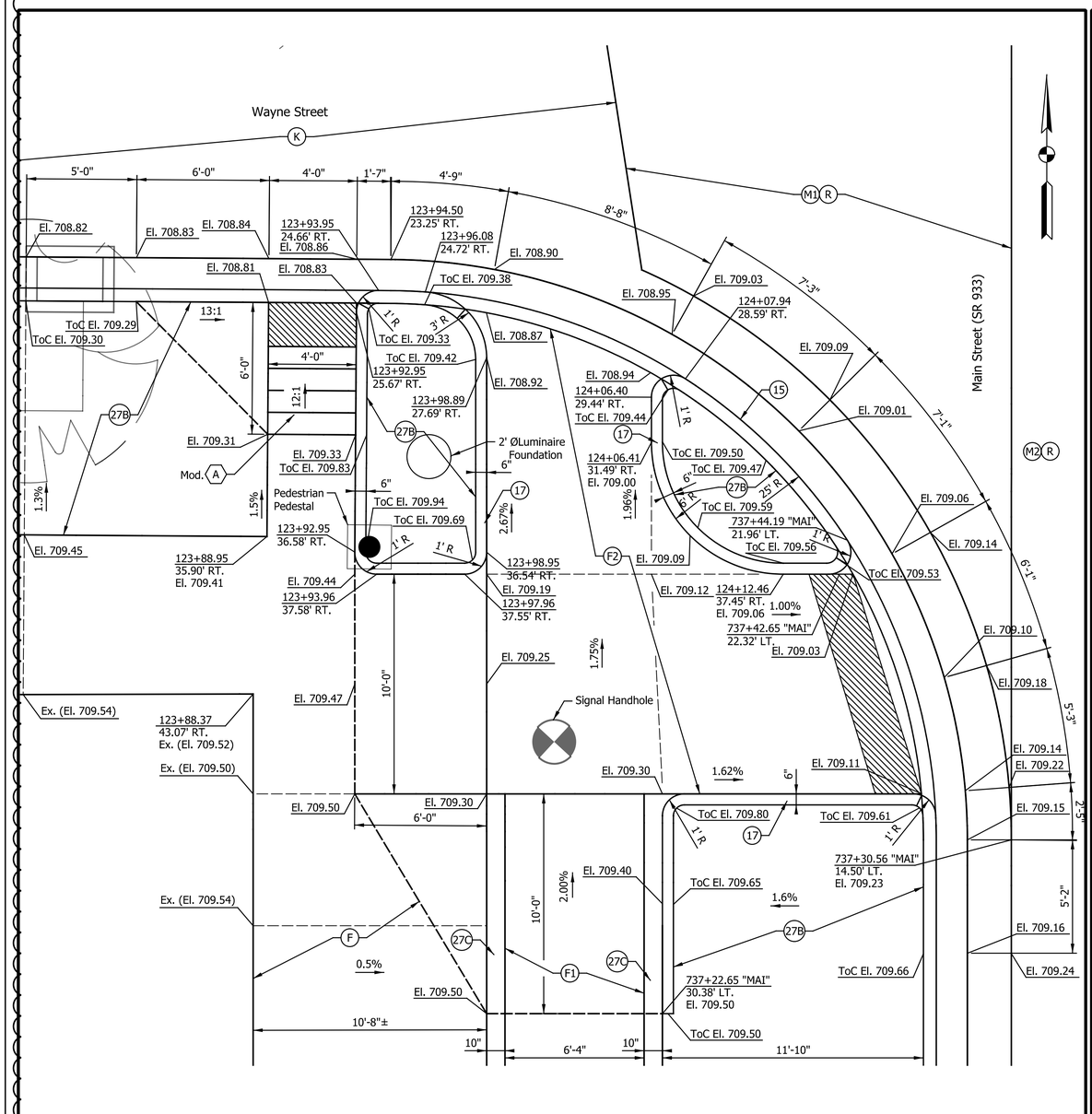

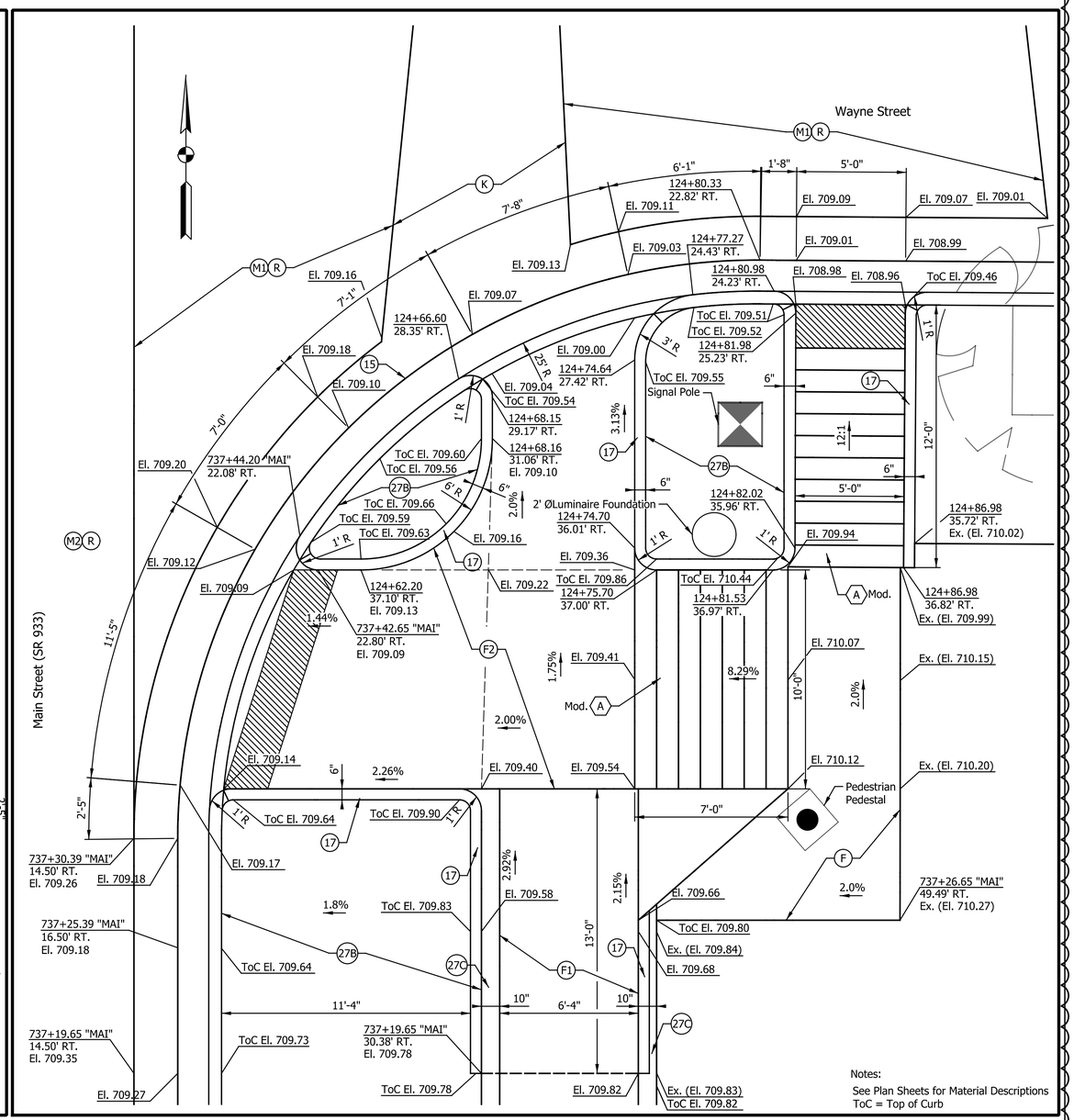

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT WAYNE ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	95 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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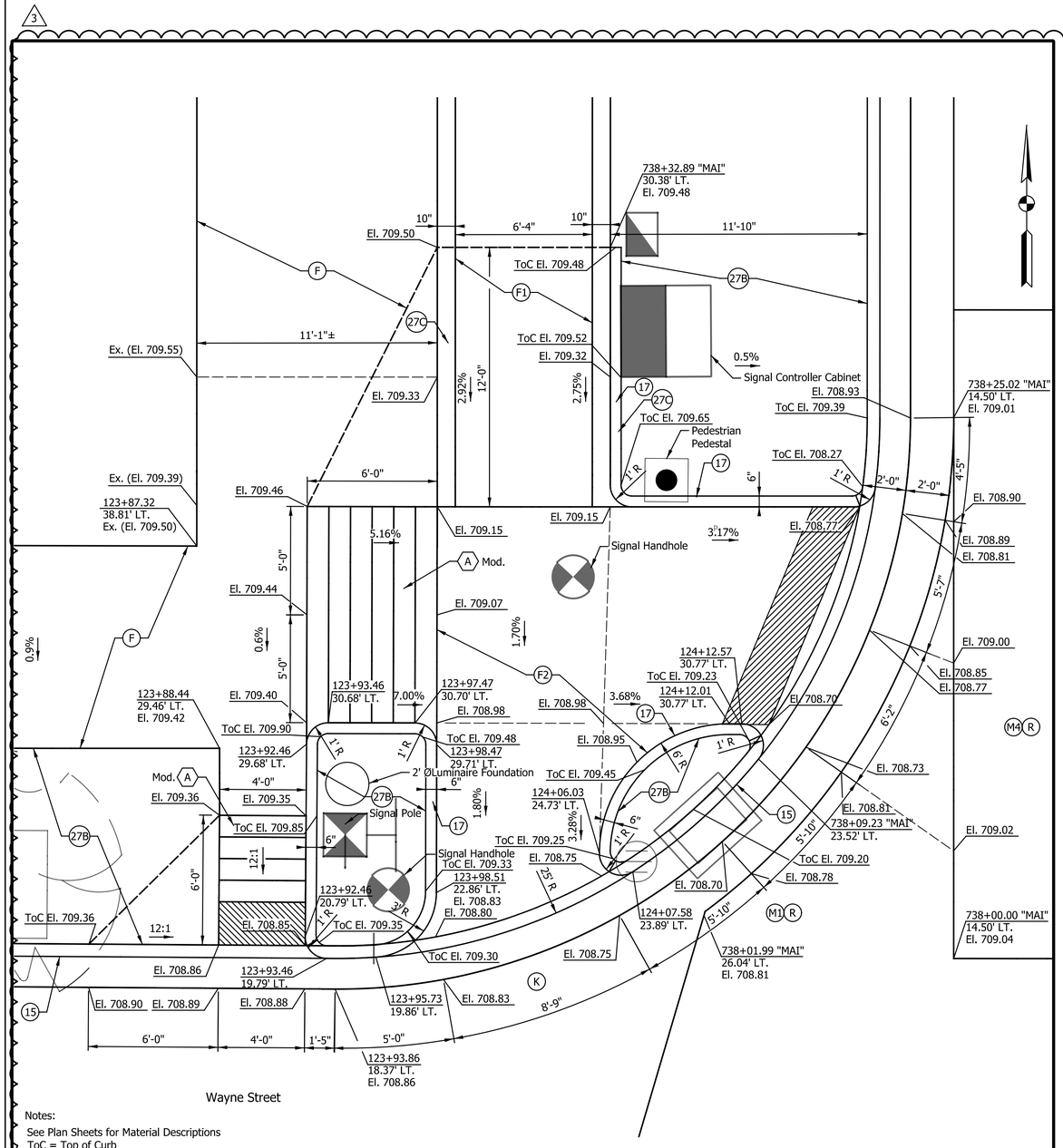

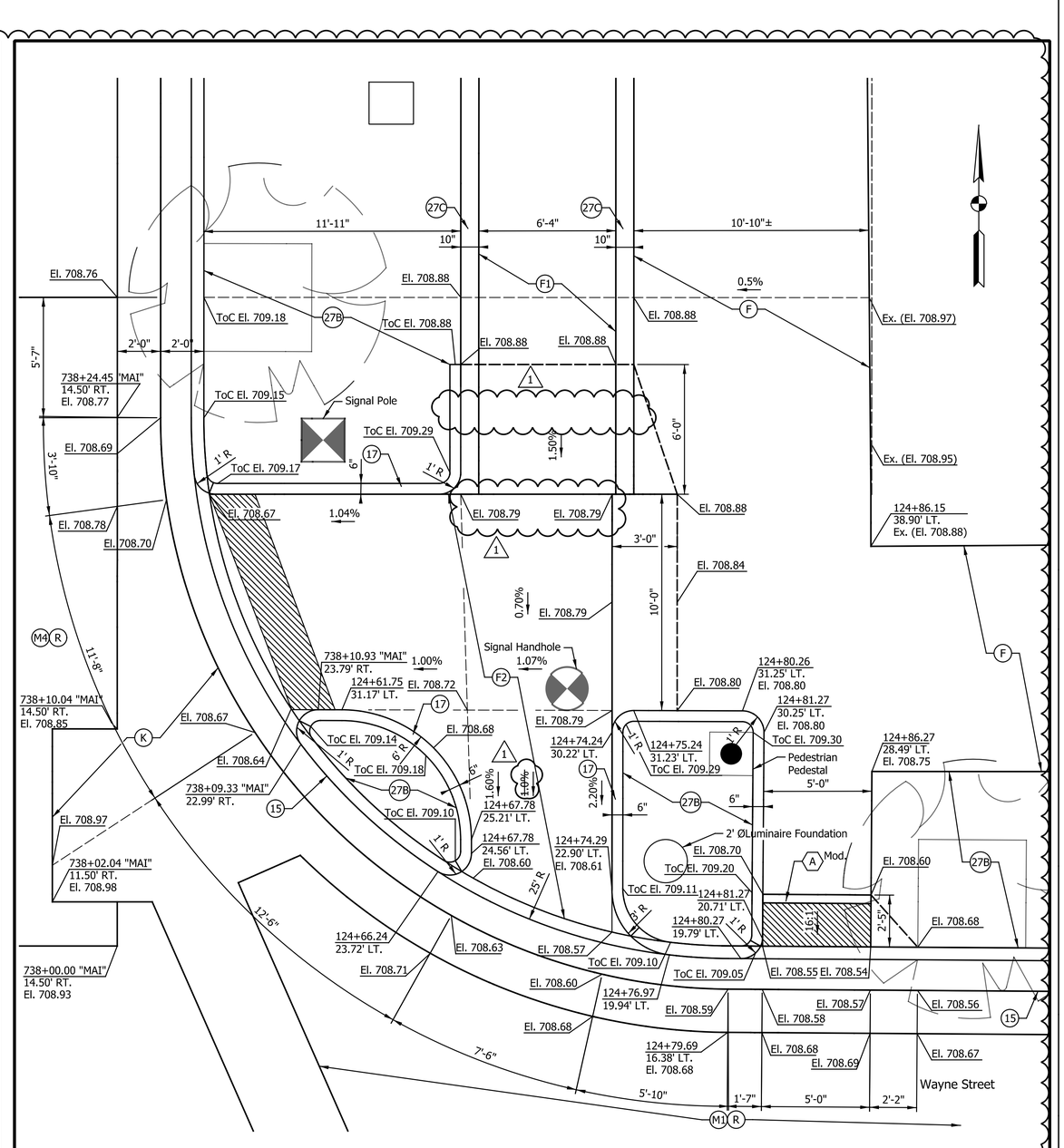

DATE	REVISION
1/15/2016	REV: 1 Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT WAYNE ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	96 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-hdf.dgn
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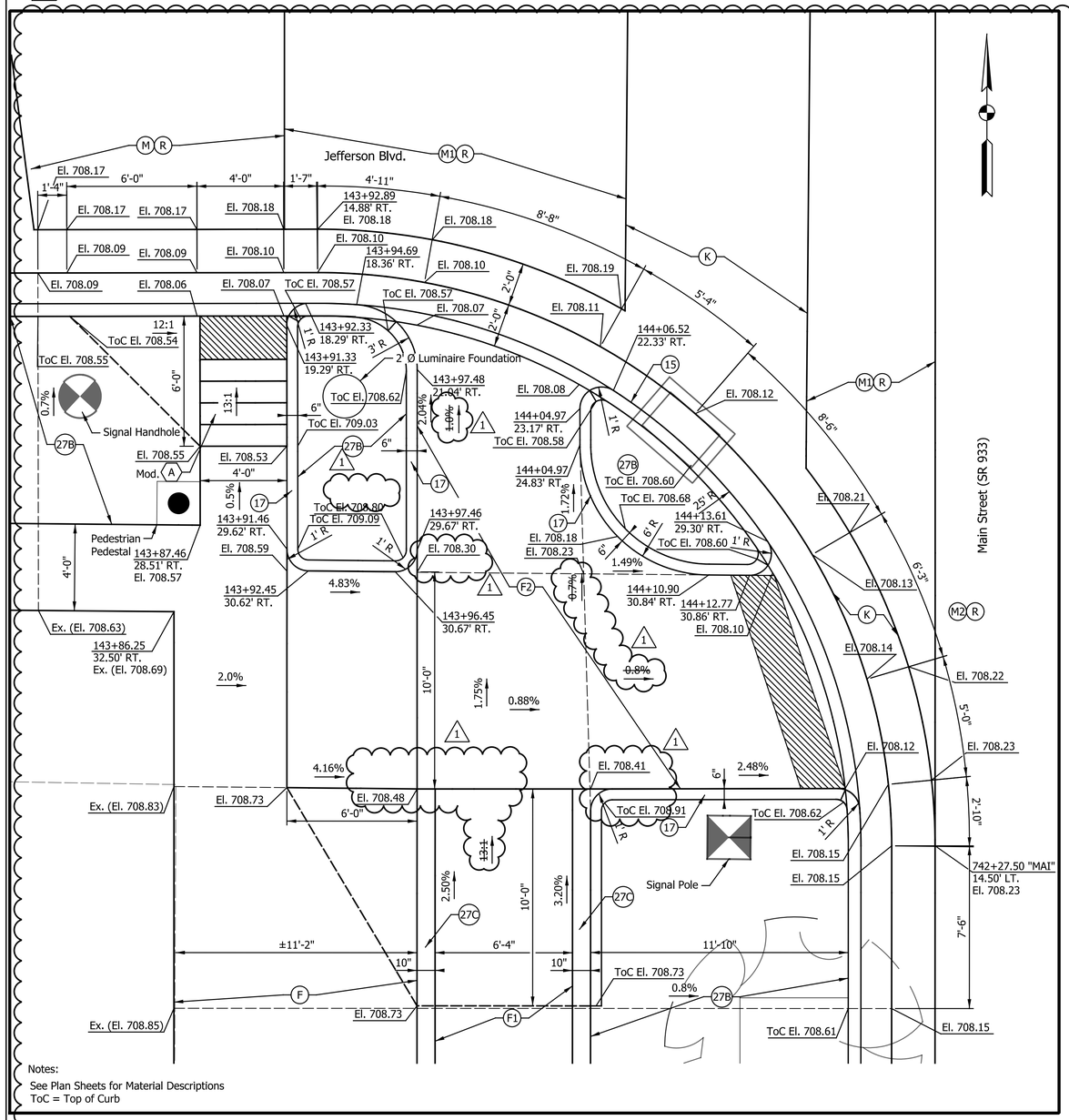

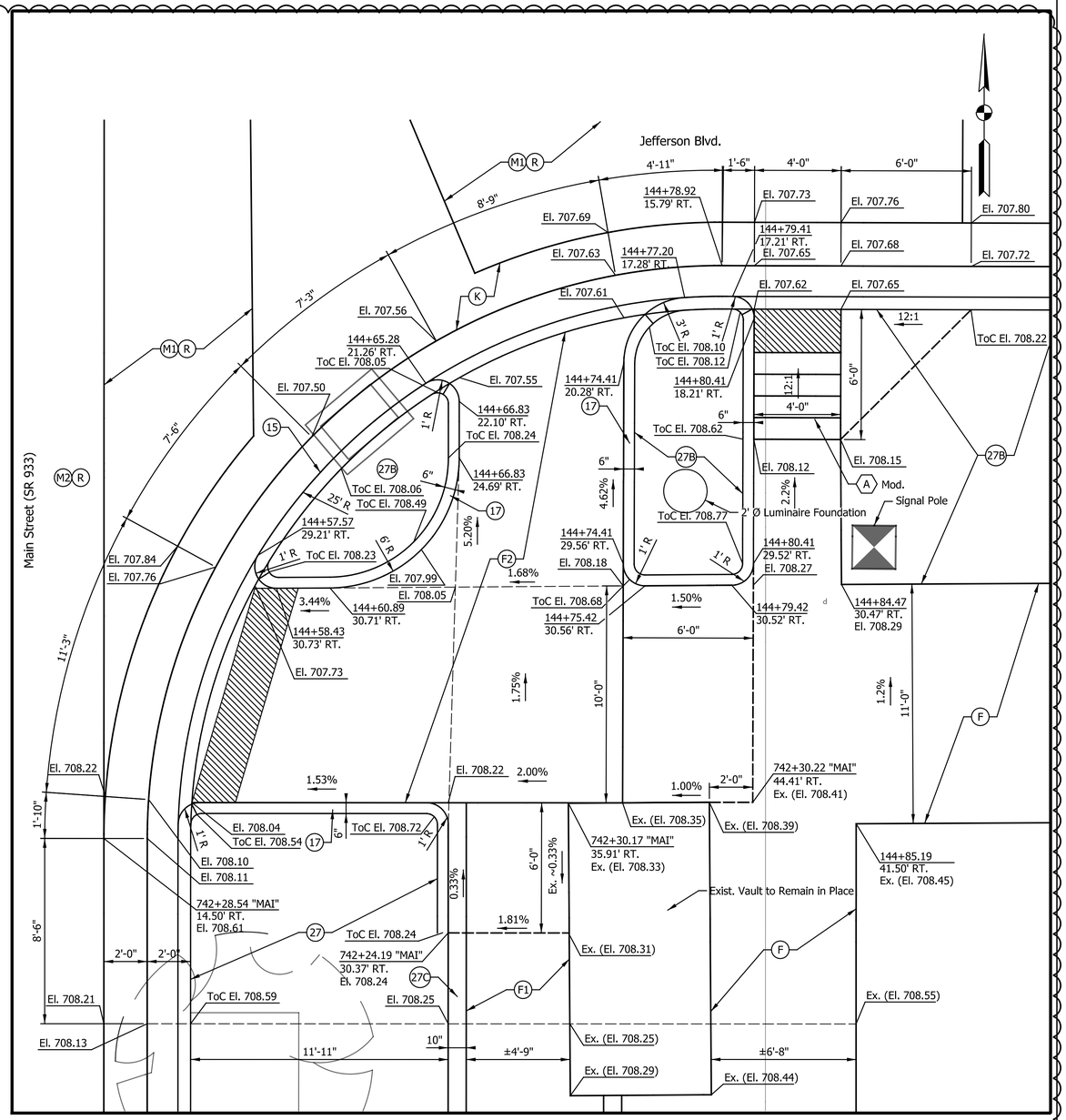

NOTES:
All Stationing Described from Line "JEF", Except as Shown.

DATE	REVISION
1/15/2016	REV 1: Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	97 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:06:53 PM P:\2014\01351\D. Drawings\201401351.RD.MD.JEF_MAIN_S.dgn

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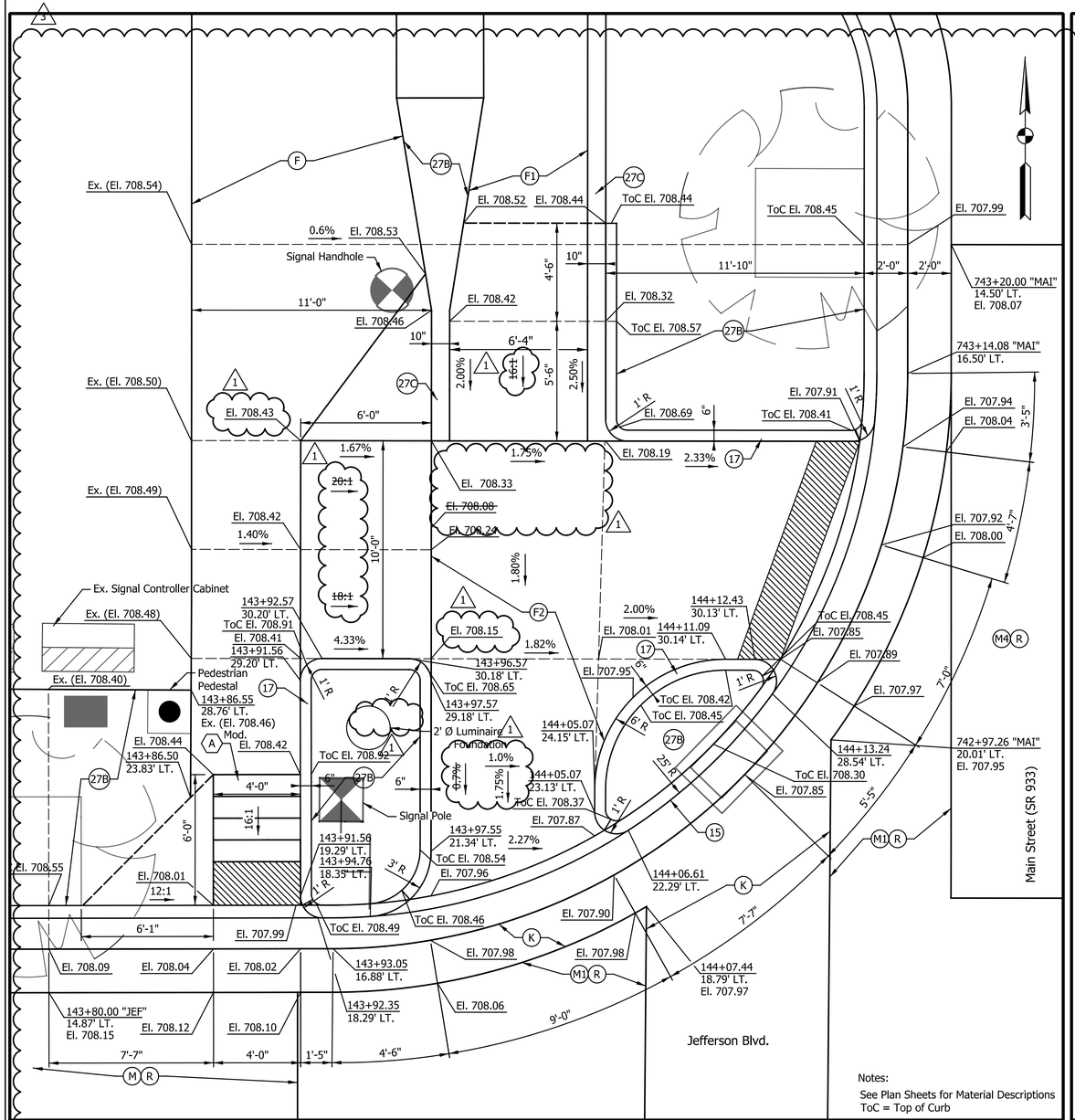

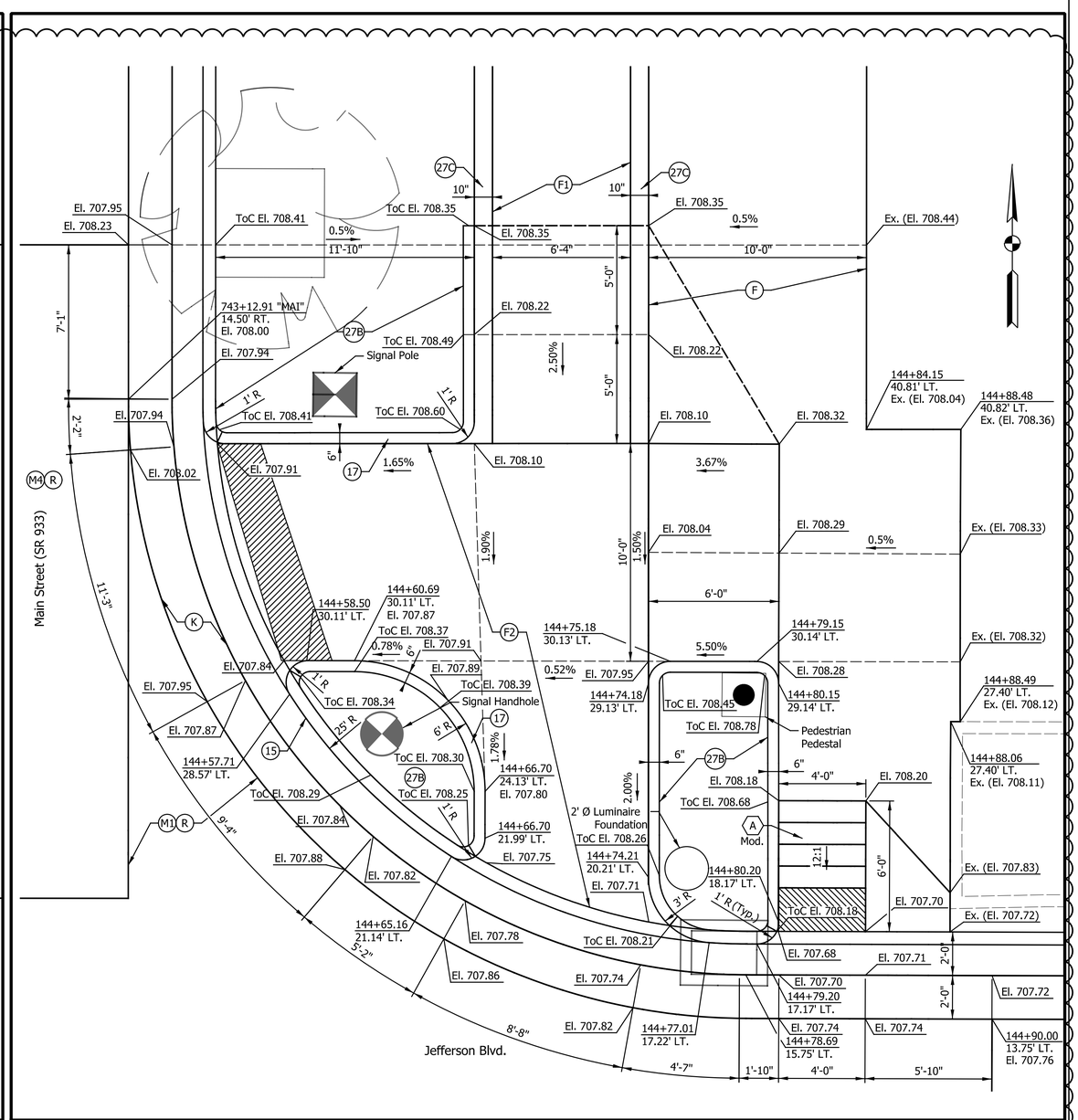

NOTES:
All Stationing Described from Line "JEF", Except as Shown.

DATE	REVISION
1/15/2016	REV 1: Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	98 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-hdf.dfn|p
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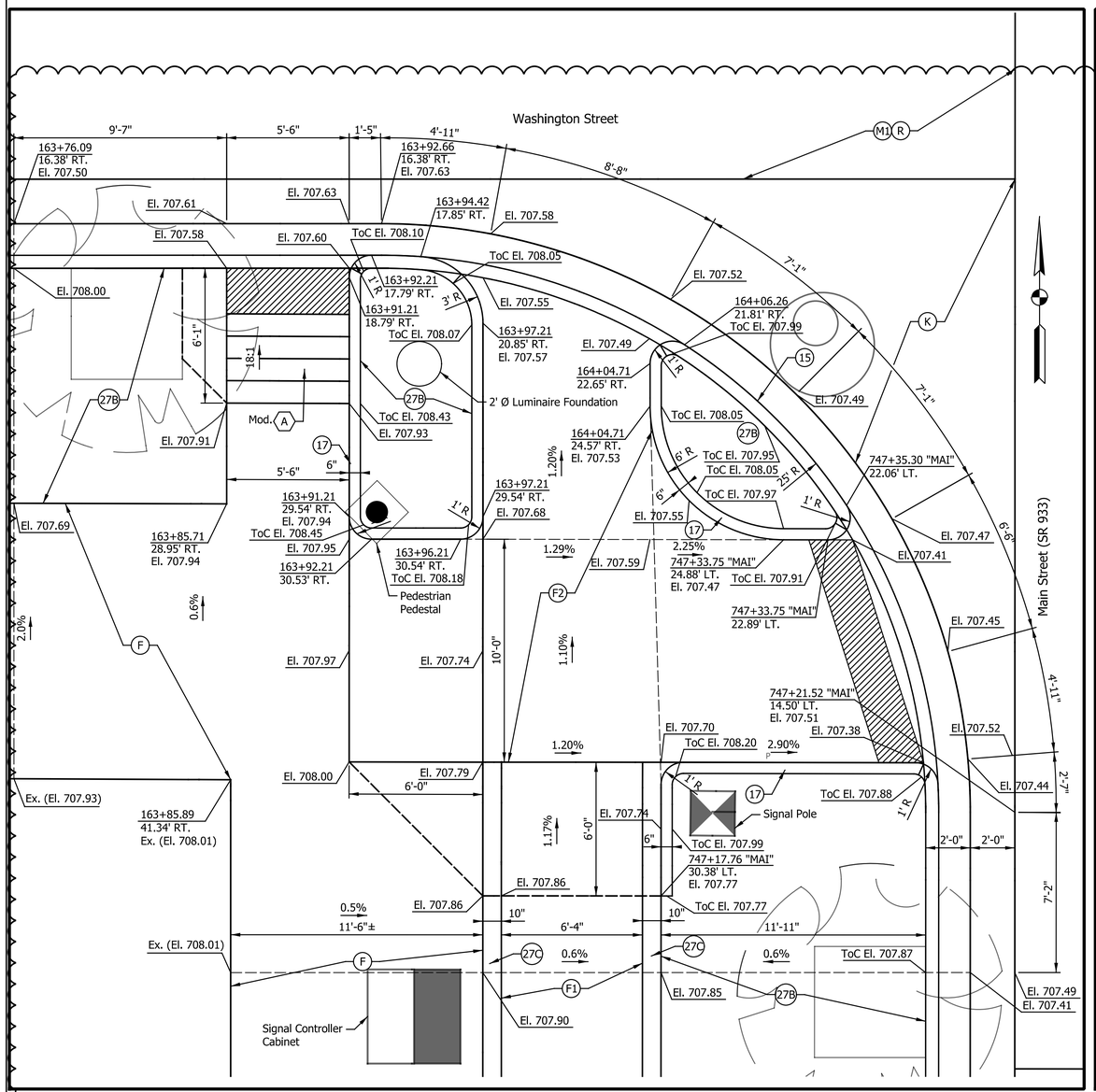

NOTES:
All Stationing Described from Line "WAS", Except as Shown.

DATE	REVISION
1/15/2016	REV 1: Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 — DATE

DESIGNED: MRR — DRAWN: JRG

CHECKED: PKW — CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT WASHINGTON ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	99 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-hdf.dfn
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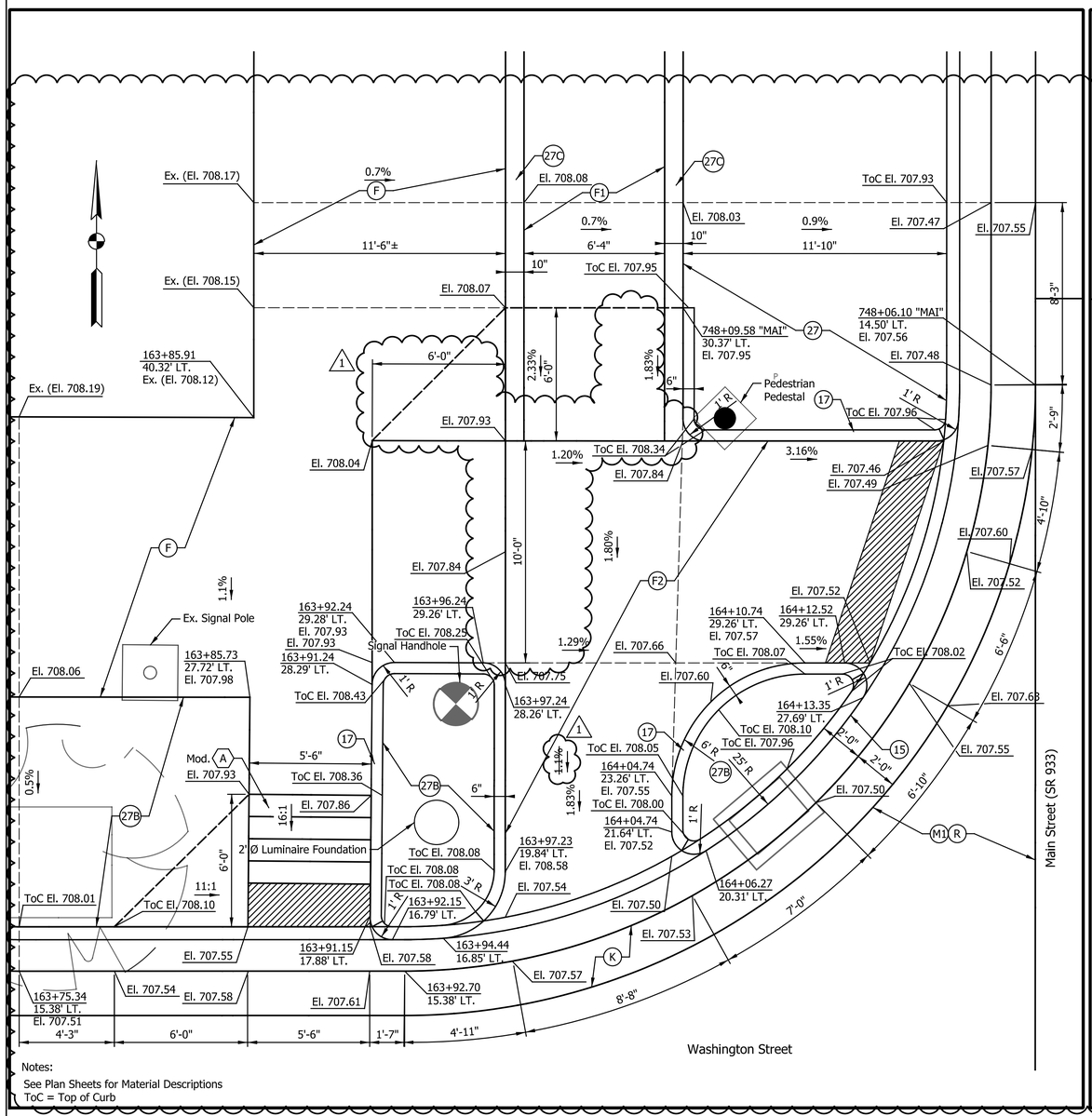

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
1/15/2016	REV 1: Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. AT WASHINGTON ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	100 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Ingb-dhf.dftcfg
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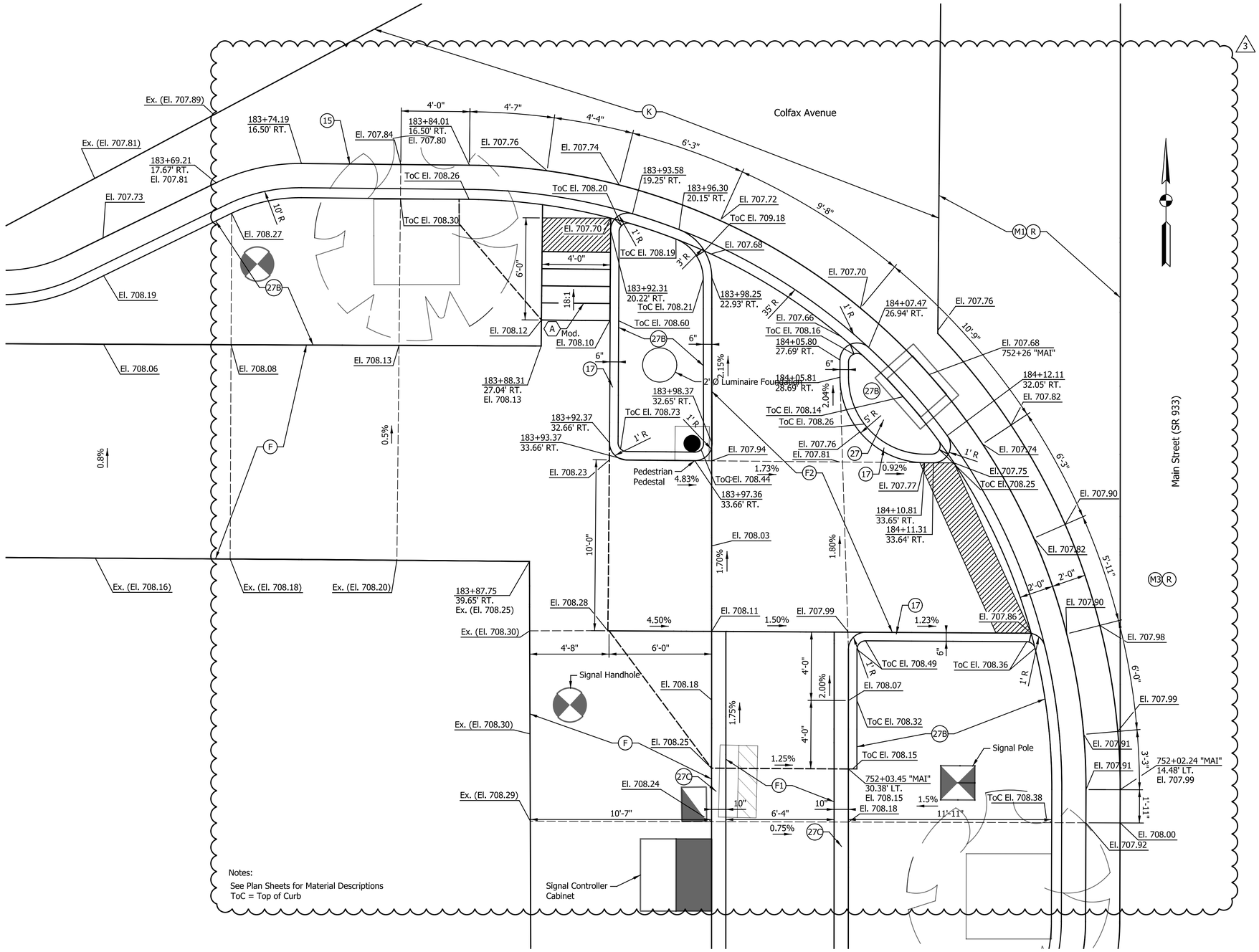

NOTES:
All Stationing Described from Line "COL", Except as Shown.

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOLDEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.W. COR. OF MAIN ST. & COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	101 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-dist.dgn
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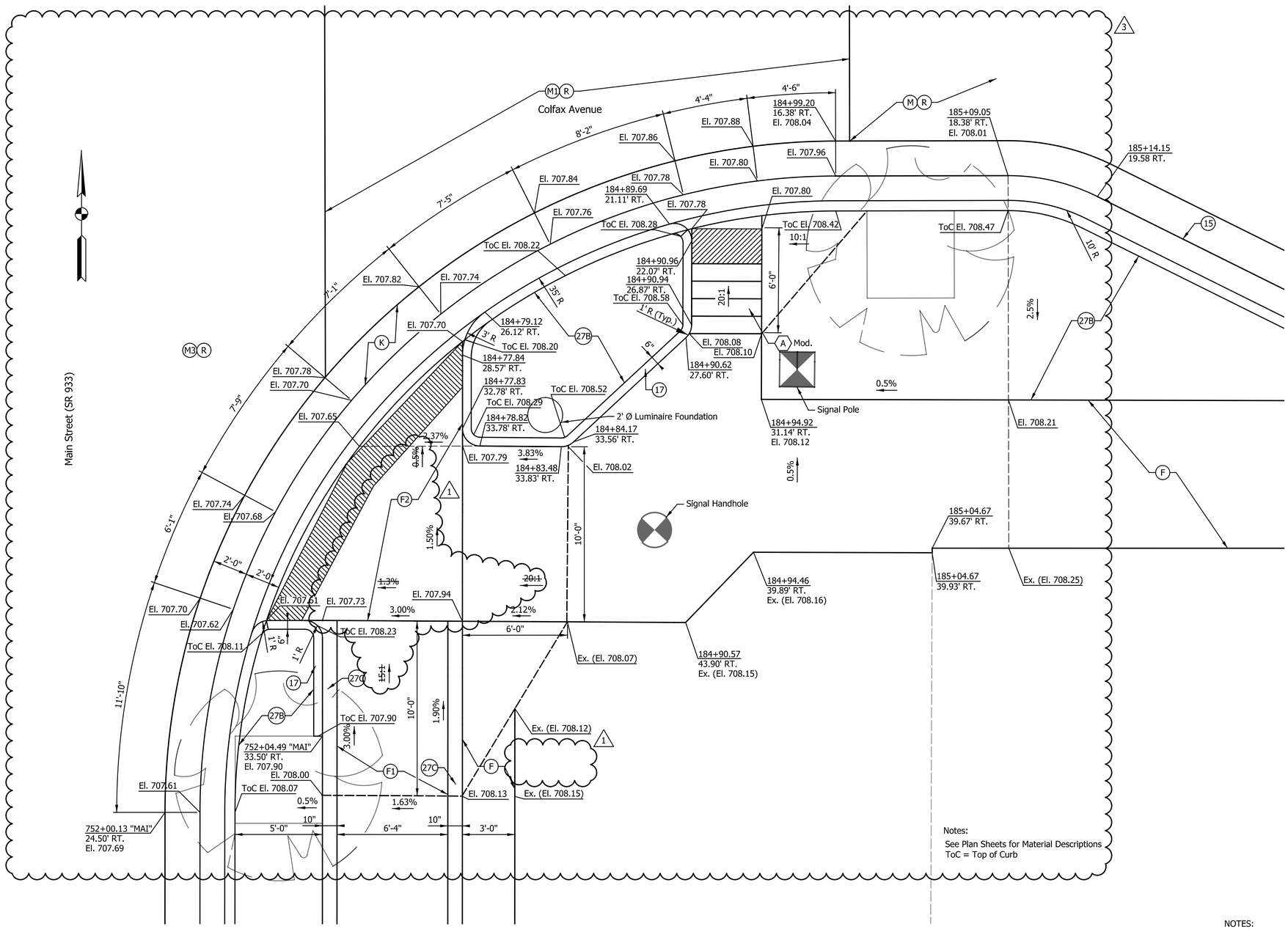

NOTES:
All Stationing Described from Line "COL", Except as Shown.

DATE	REVISION
1/15/2016	REV 1: Revised Elevations & Grades
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.E. COR. OF MAIN ST. & COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	102 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indx-detl.dft.cfg
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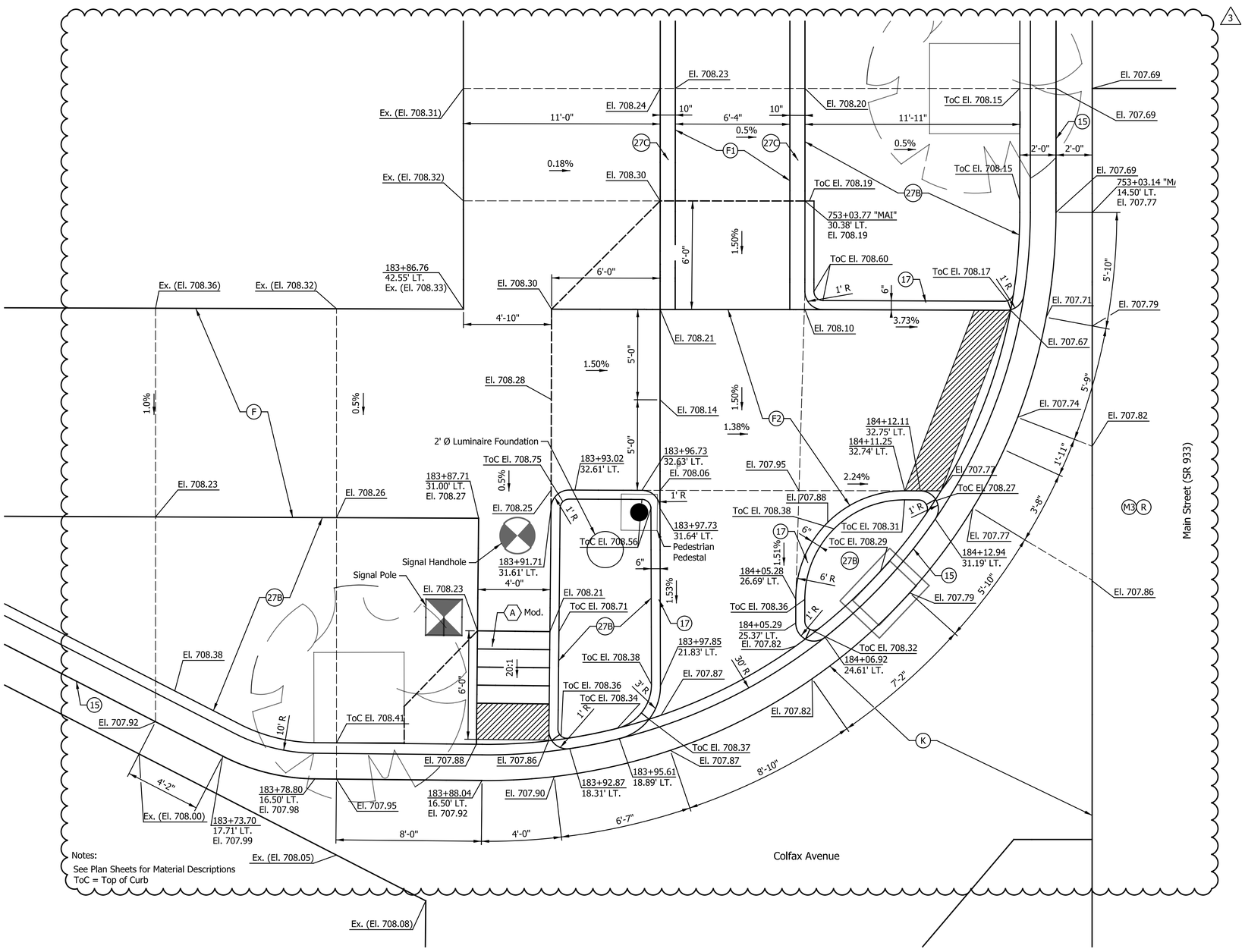

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLER
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.W. COR. OF MAIN ST. & COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	103 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-Pdf.dfd
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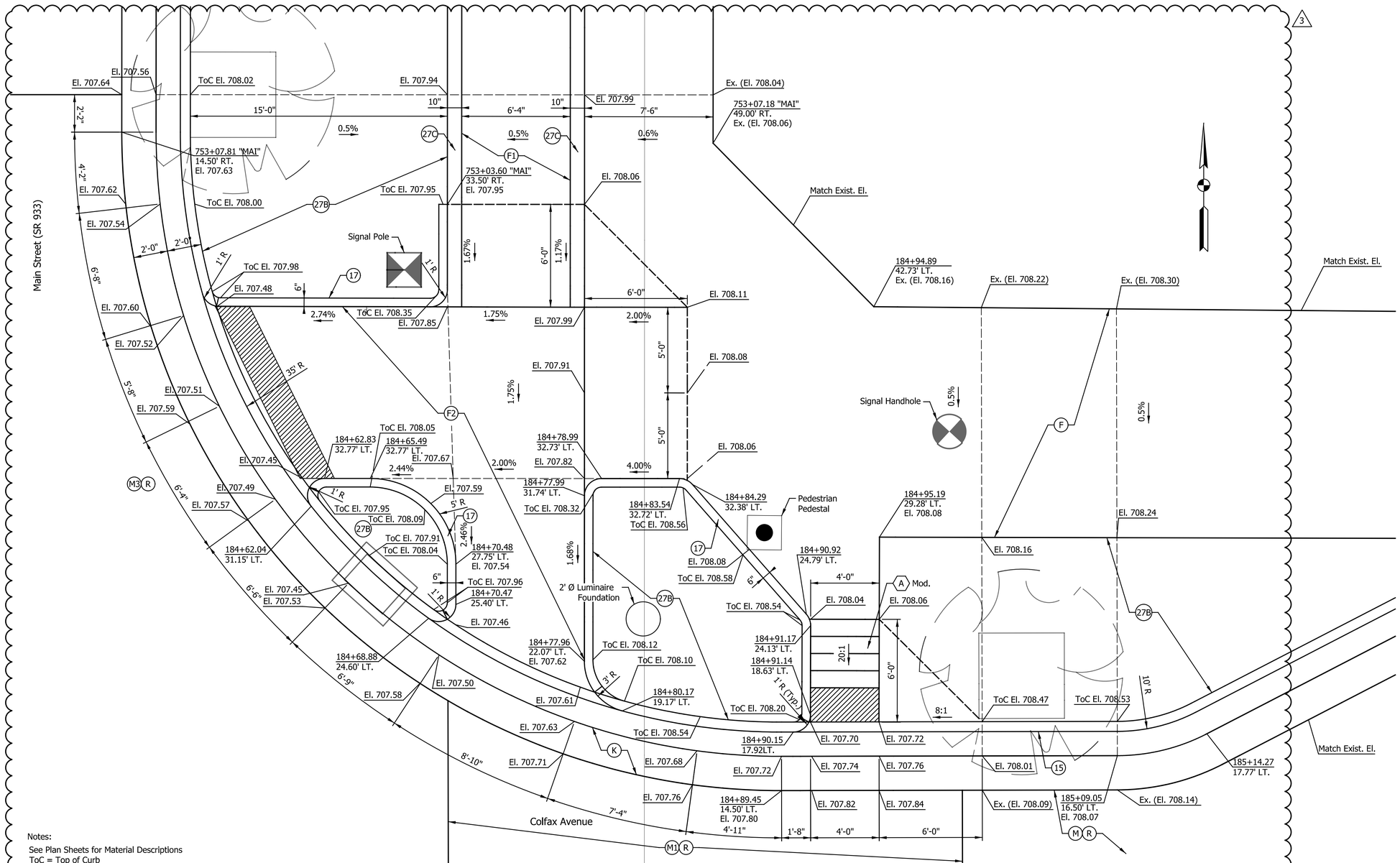

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK R. WOOLER
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.E. COR. OF MAIN ST. & COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	104 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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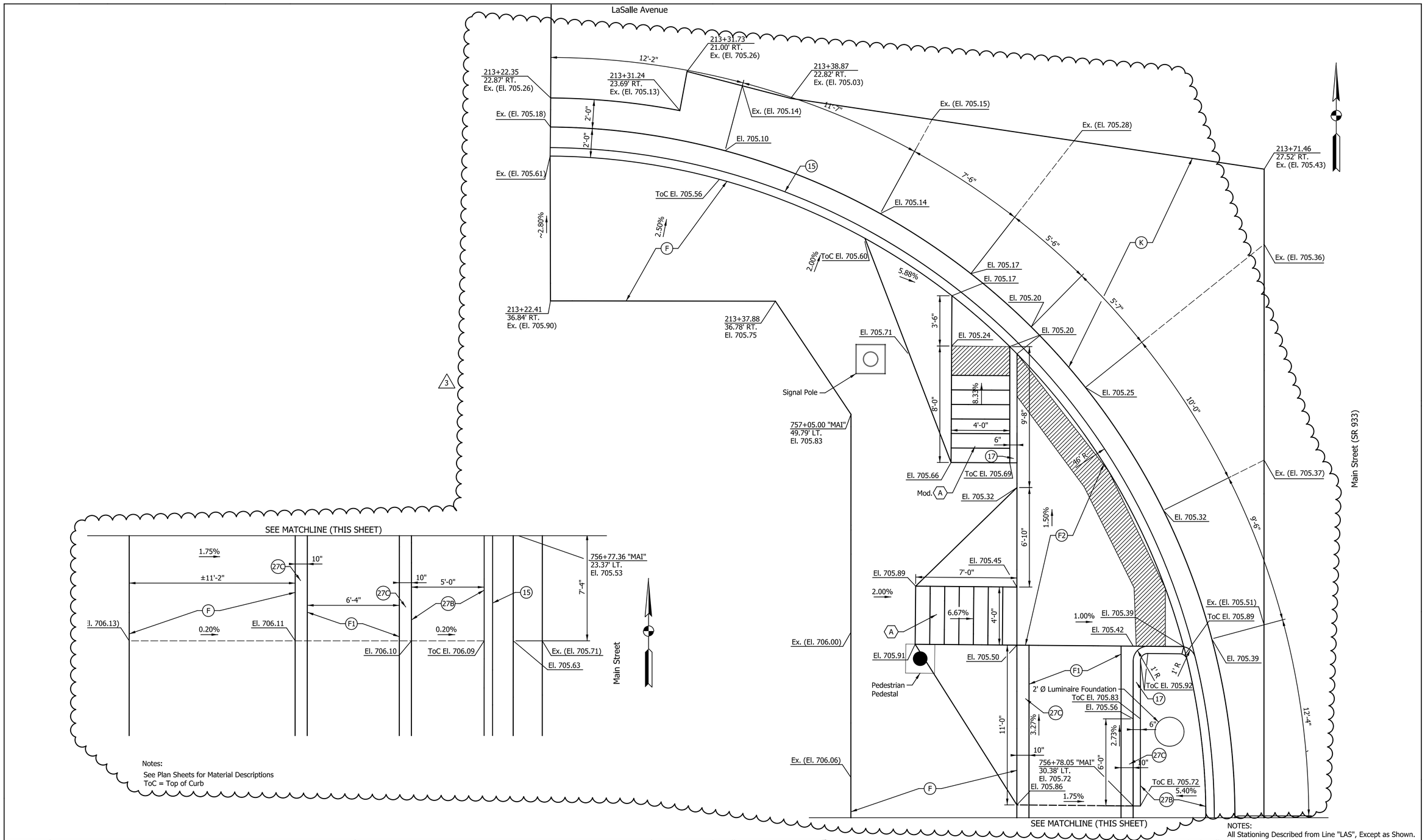

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.W. COR. OF MAIN ST. & LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	105 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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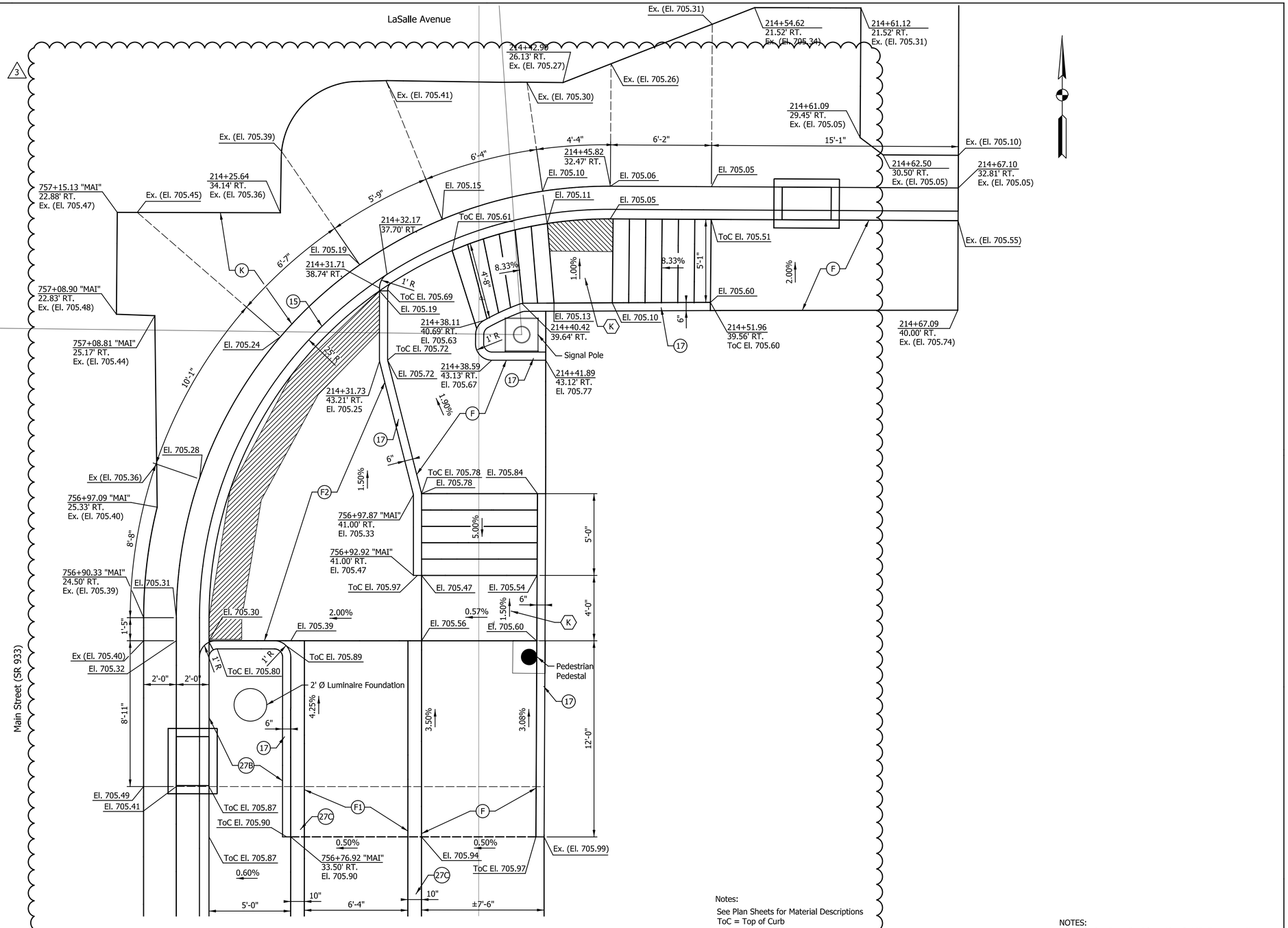

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
S.E. COR. OF MAIN ST. & LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	106 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:07:12 PM P:\2014\01351\D. Drawings\201401351_RD_MD_LAS_MAIN_SE.dgn

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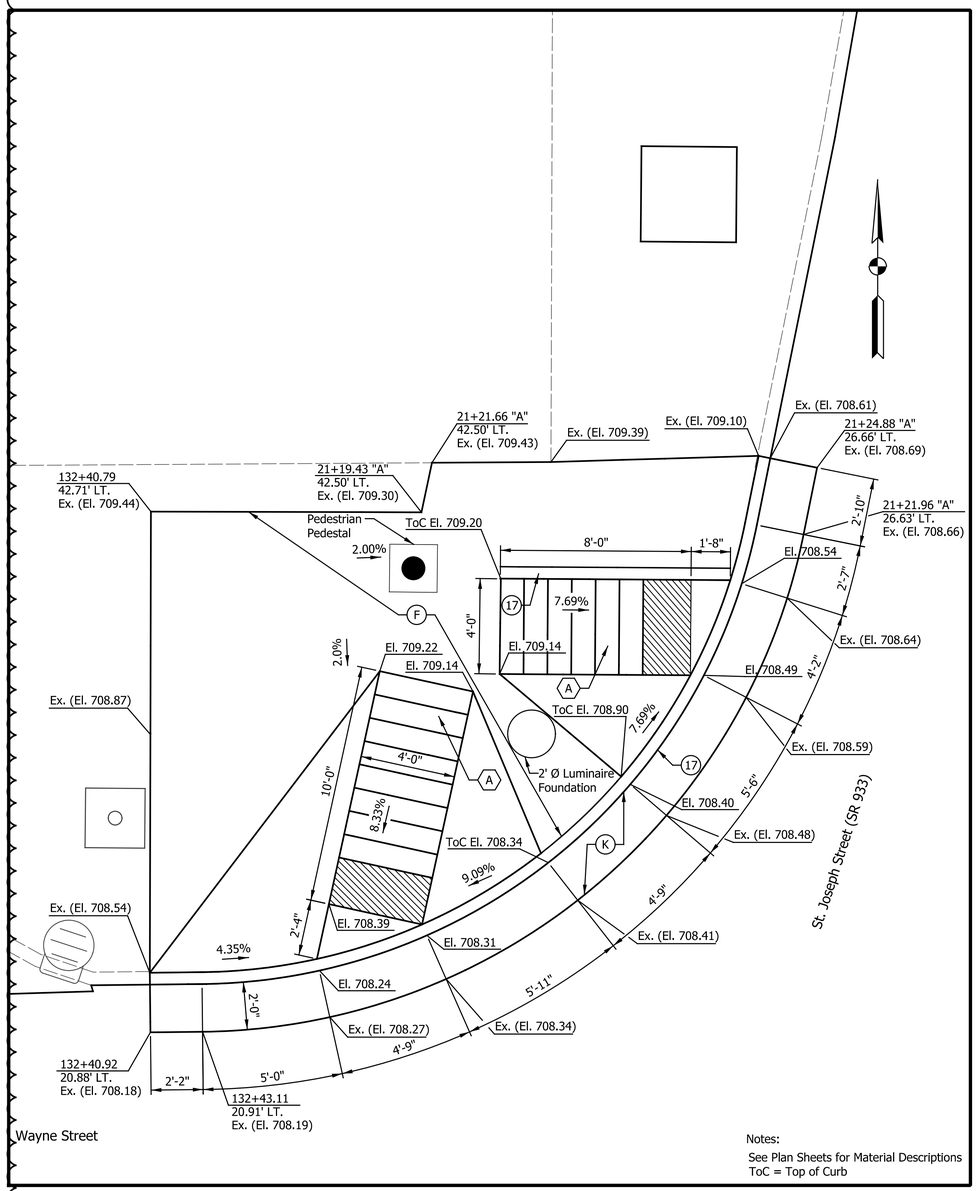
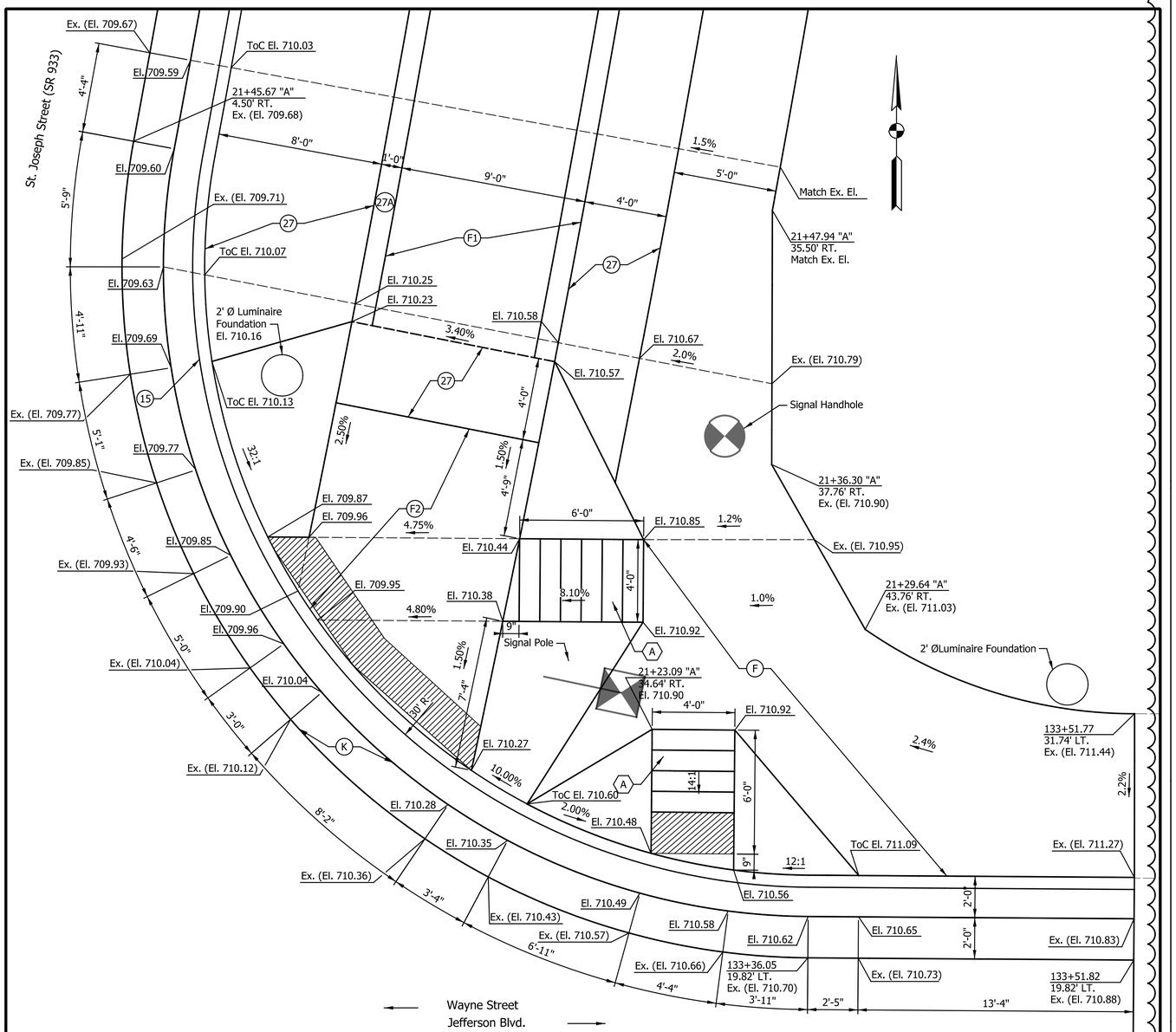


Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb



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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT JEFFERSON BLVD. & WAYNE ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	108 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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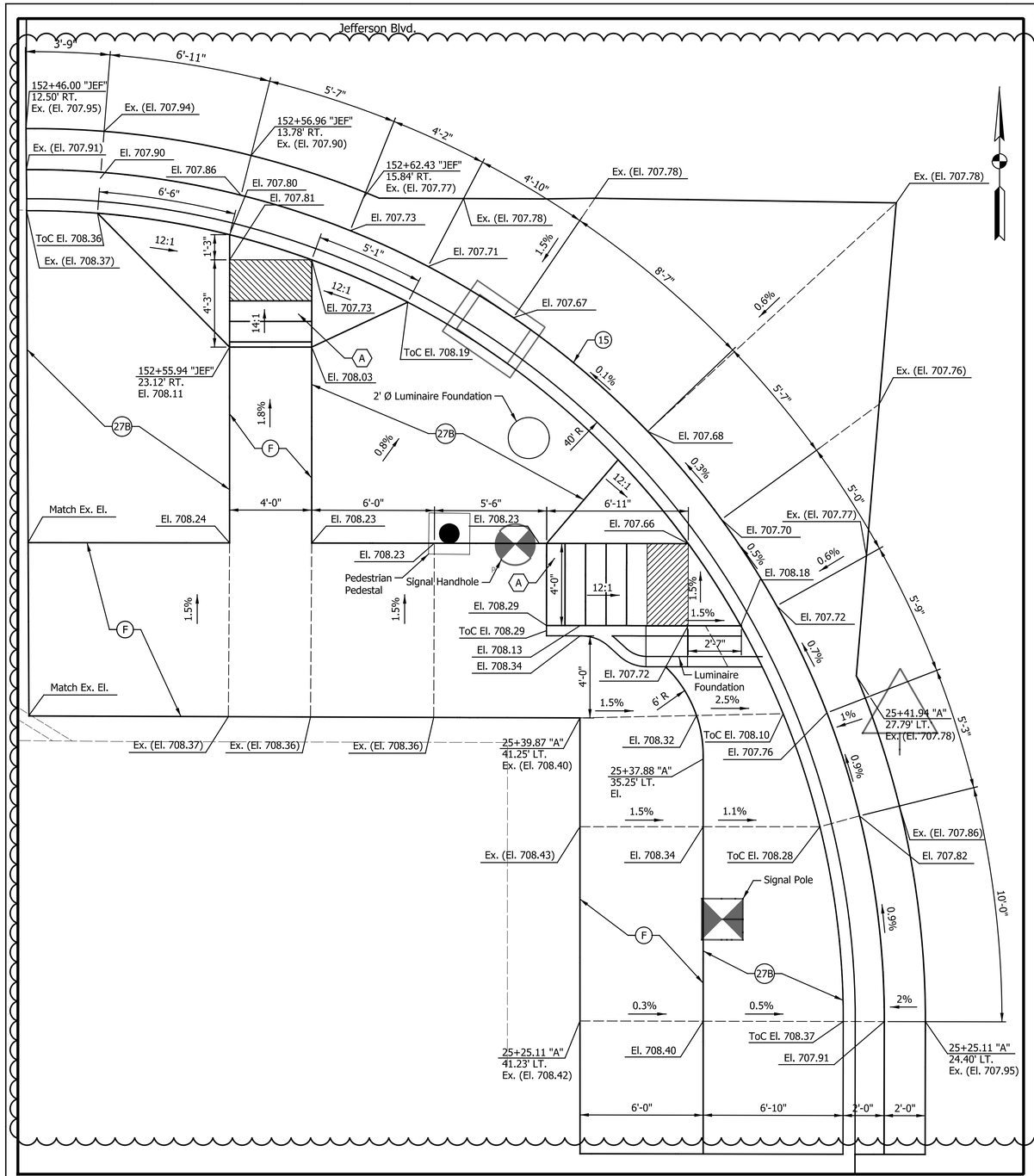

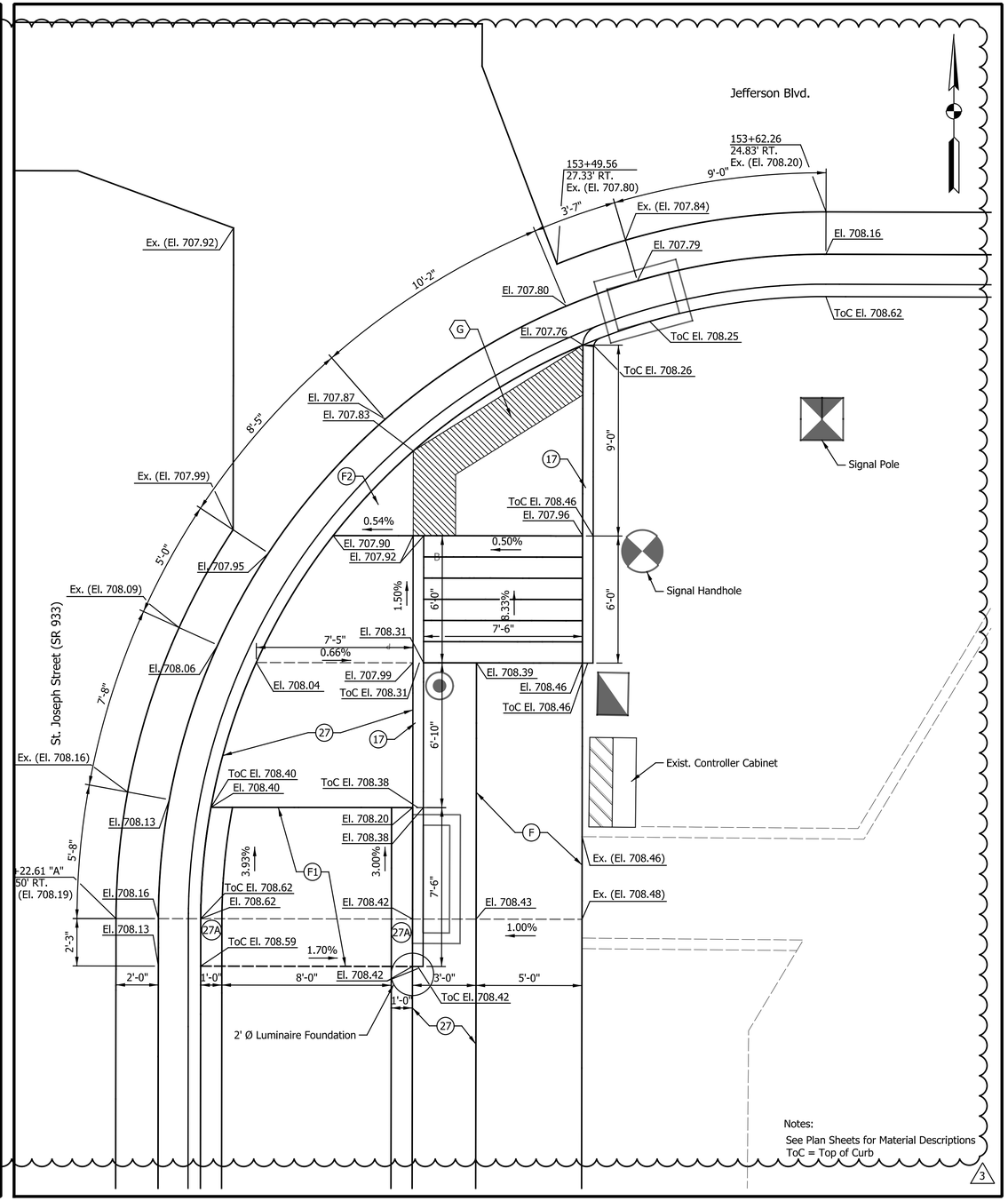

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

3

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS ST. JOSEPH ST. AT JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	109 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:07:16 PM P:\2014\01351\D. Drawings\201401351_RD_MD_JEF_ST_JO_S.dgn

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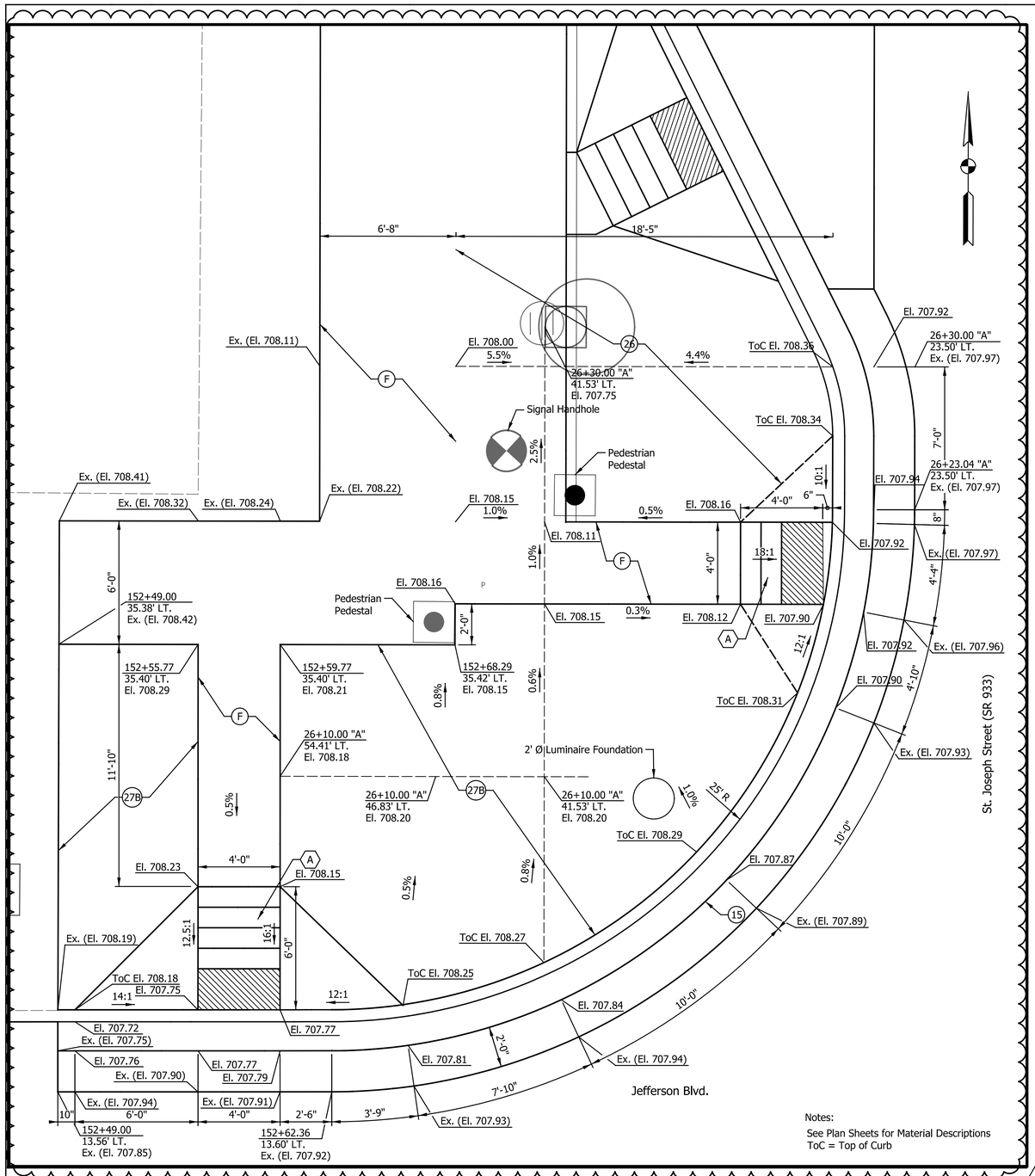

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

SEE NEXT SHEET FOR N.E. CORNER

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.W. COR. OF ST. JOSEPH ST. & JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	110 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indv-Pdf.dfcfg
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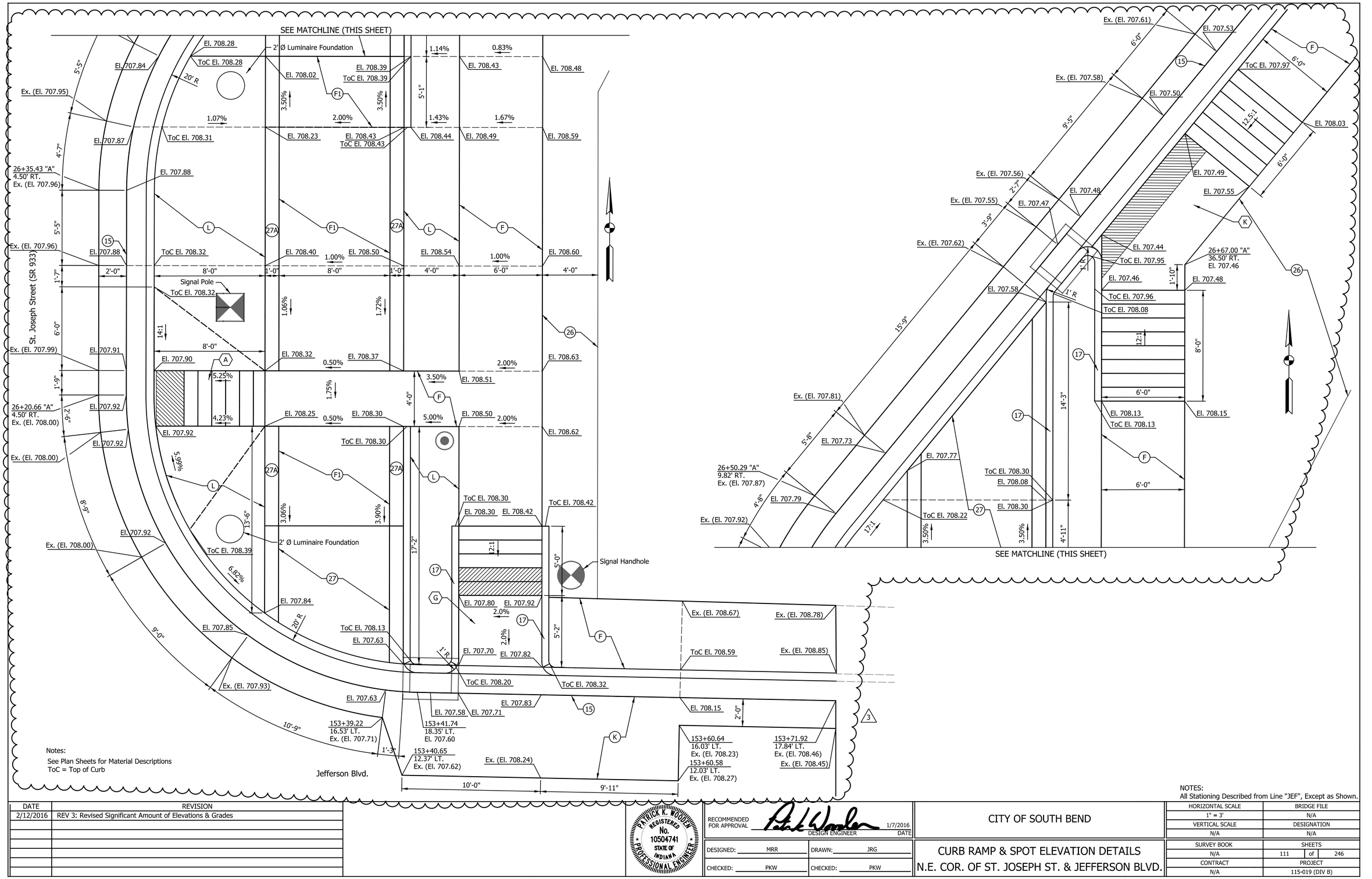

NOTES:
All Stationing Described from Line "JEF", Except as Shown.

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.E. COR. OF ST. JOSEPH ST. & JEFFERSON BLVD.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	111 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:07:20 PM P:\2014\01351\D. Drawings\201401351.RD.MD.JEF_STJO_NE.dgn

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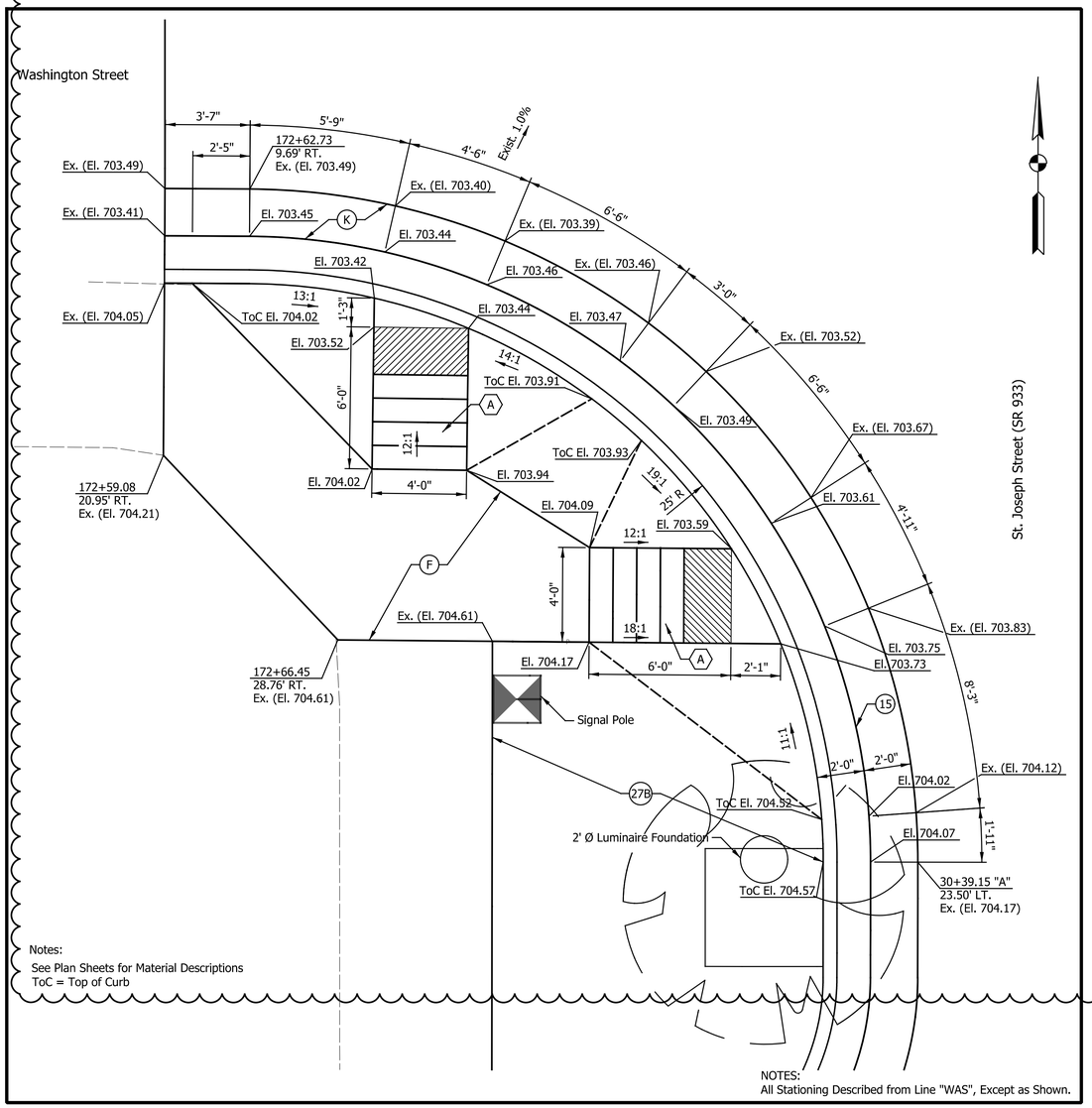
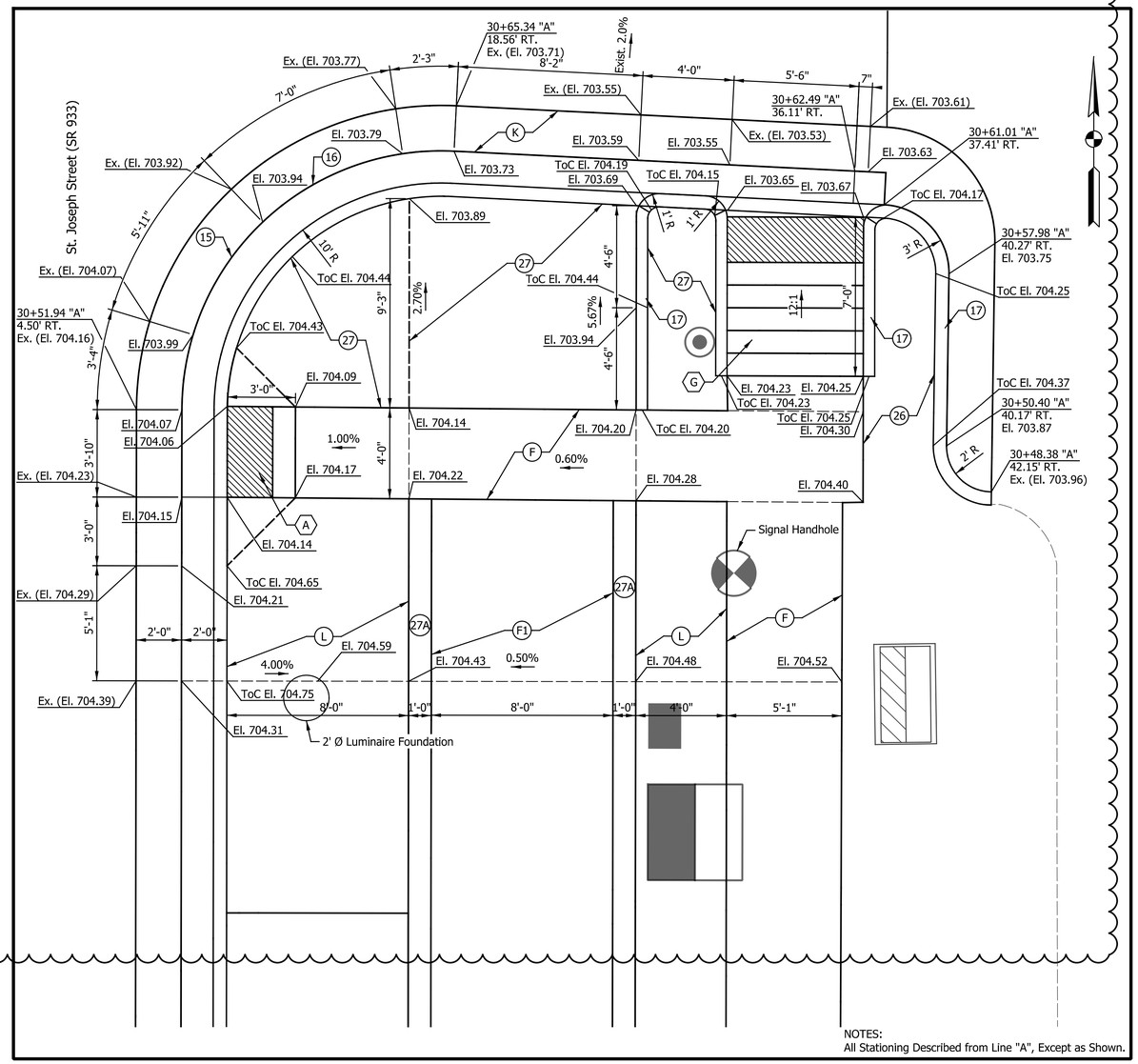
20140135I_Shade.tbl

3



Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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



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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK R. WOODEN
REGISTERED
No.
10504741
STATE OF
INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT WASHINGTON ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	112 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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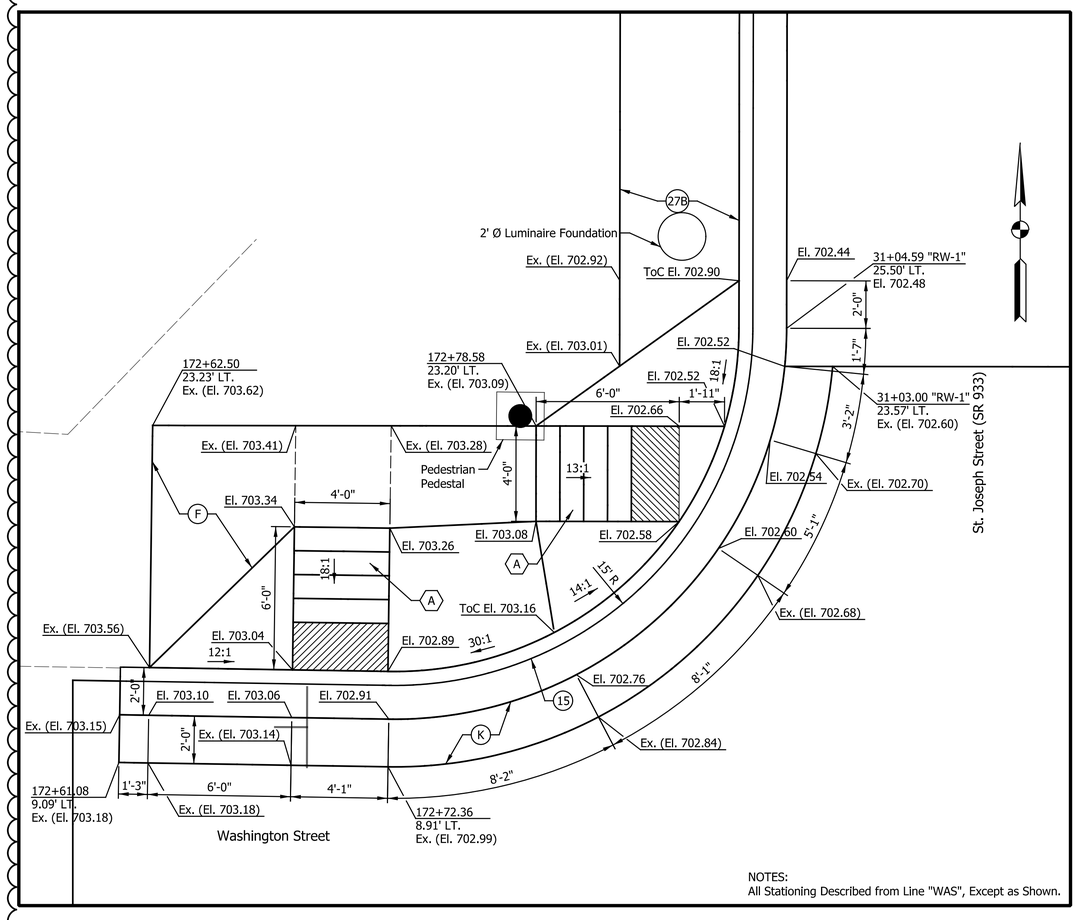
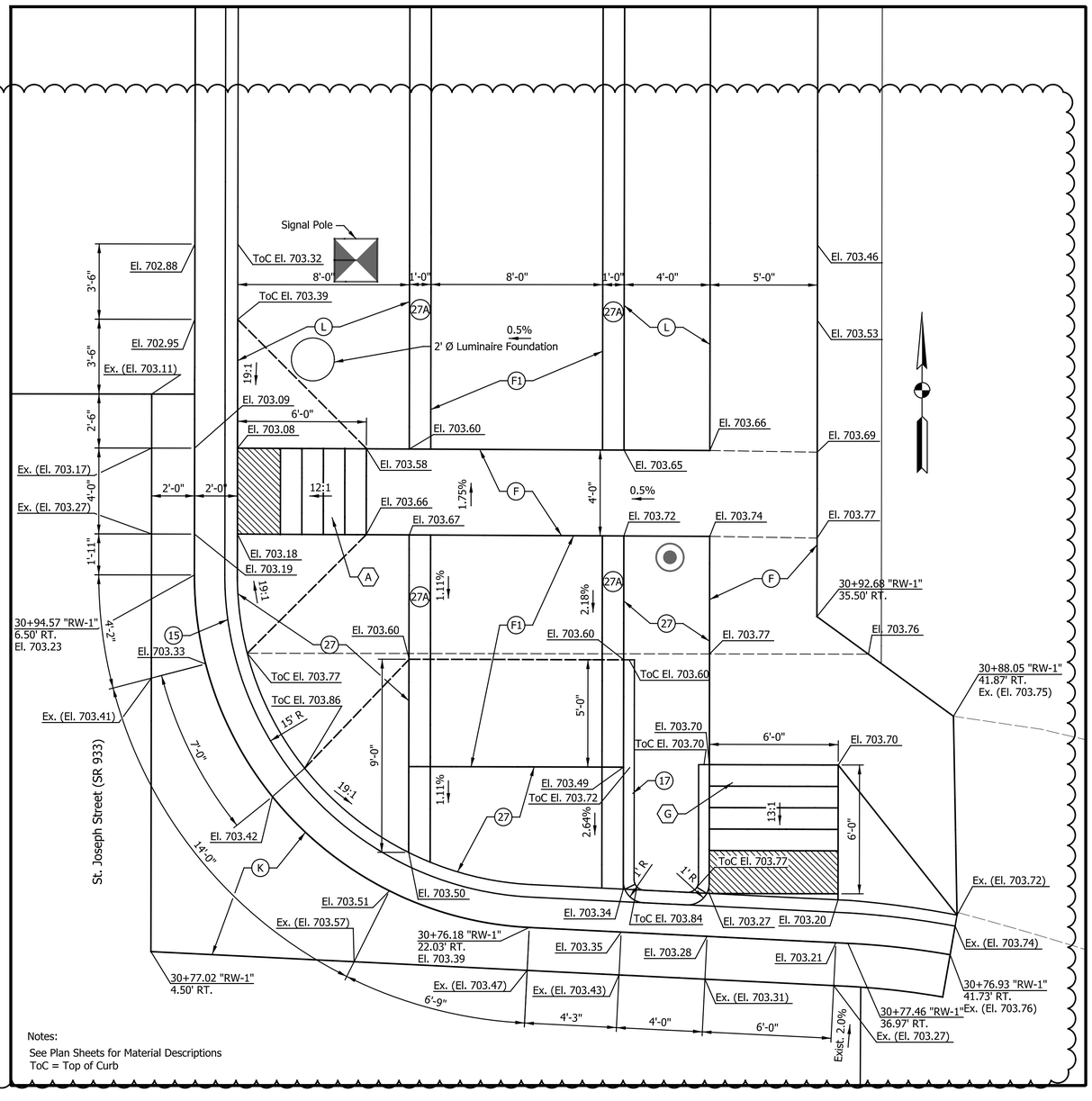




DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

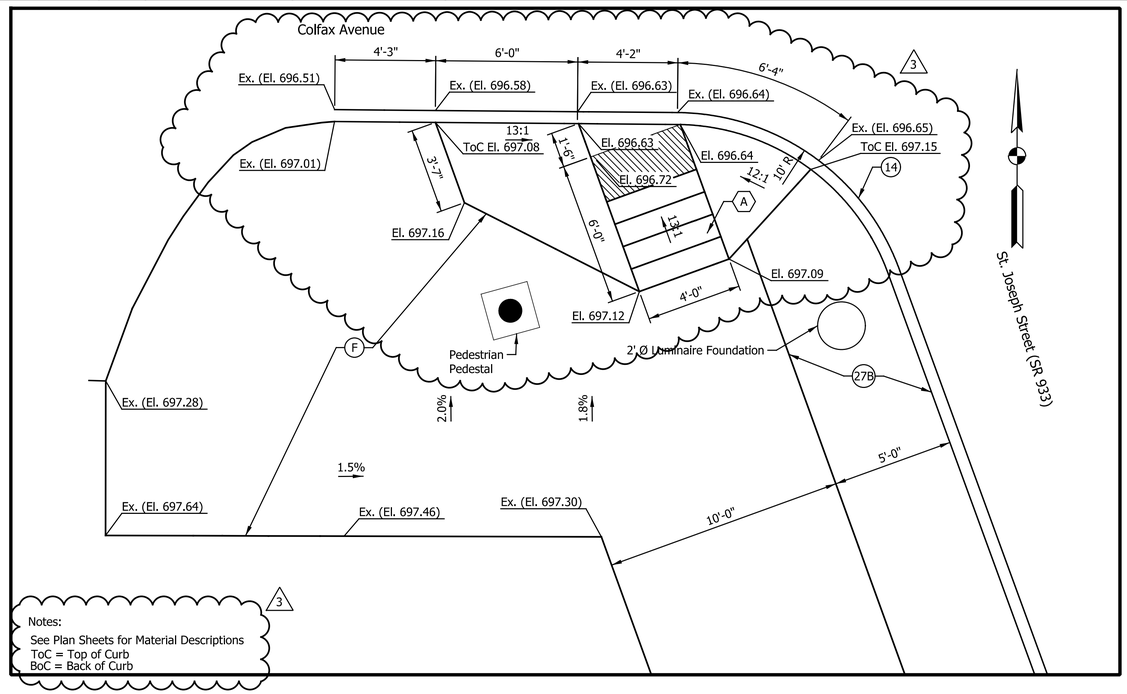
CITY OF SOUTH BEND

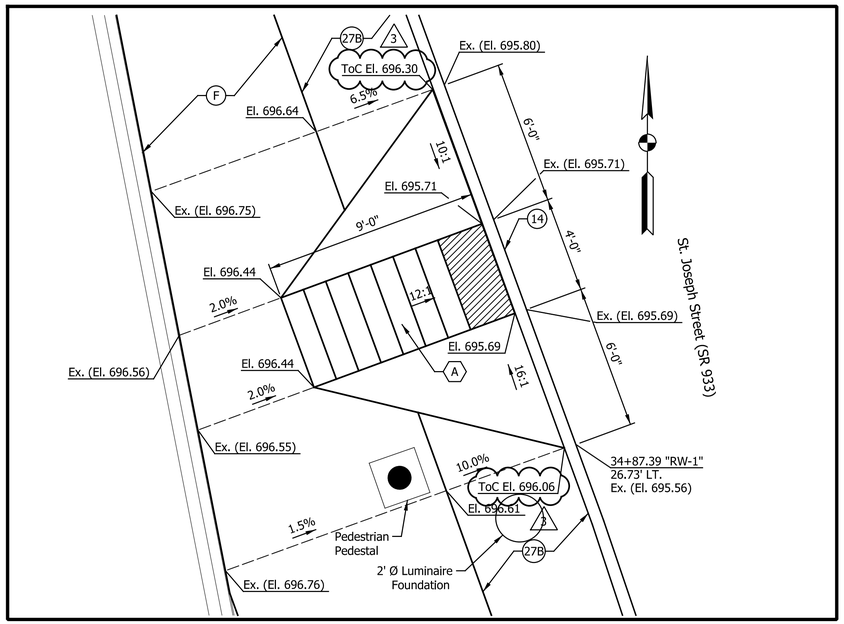
CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT WASHINGTON ST.

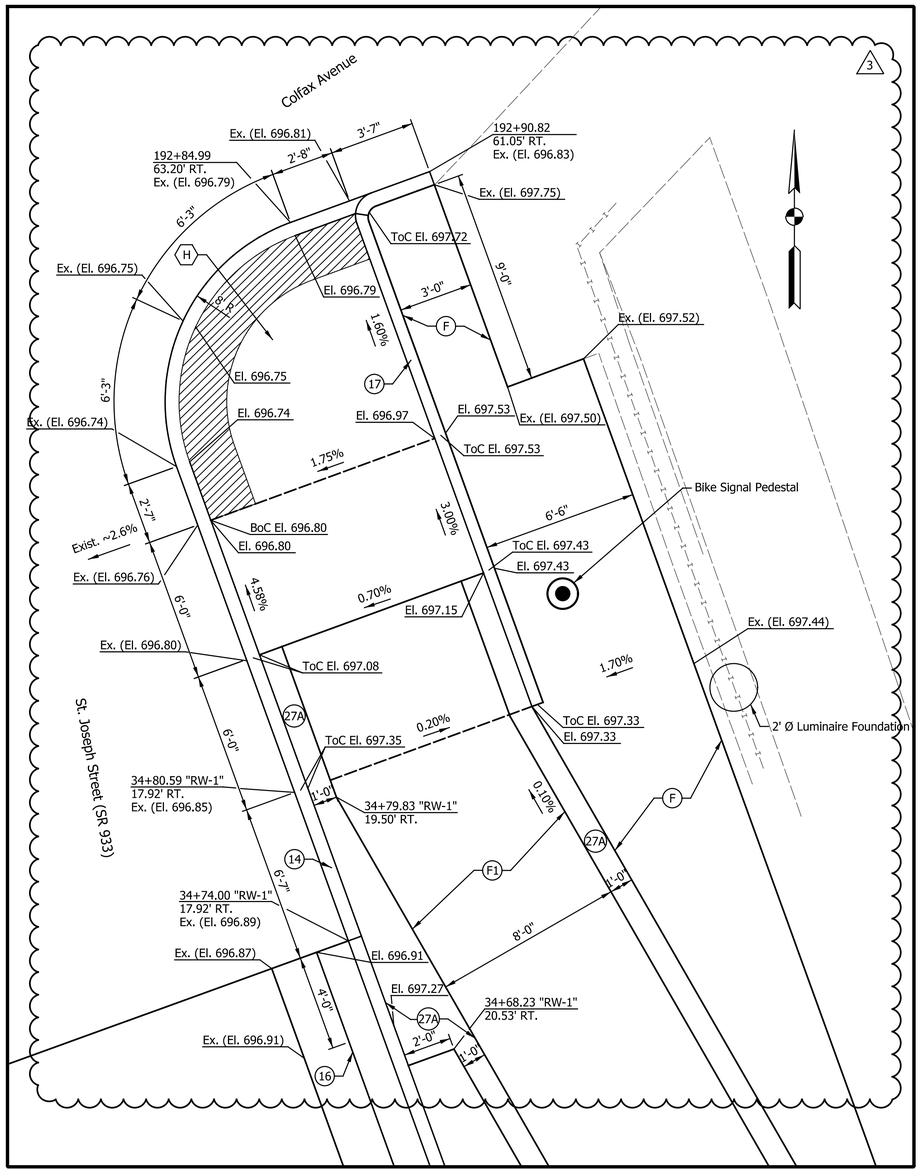
HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	113 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-dist.dgnCfg
20140135l_3Scale.tbl

jgee 2/15/2016 5:07:24 PM P:\2014\01351\D. Drawings\20140135l.RD.MD.WAS.STJO_N.dgn







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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	114 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:07:26 PM P:\2014\01351\D. Drawings\201401351.RD.MD.COL_STJO_S.dgn

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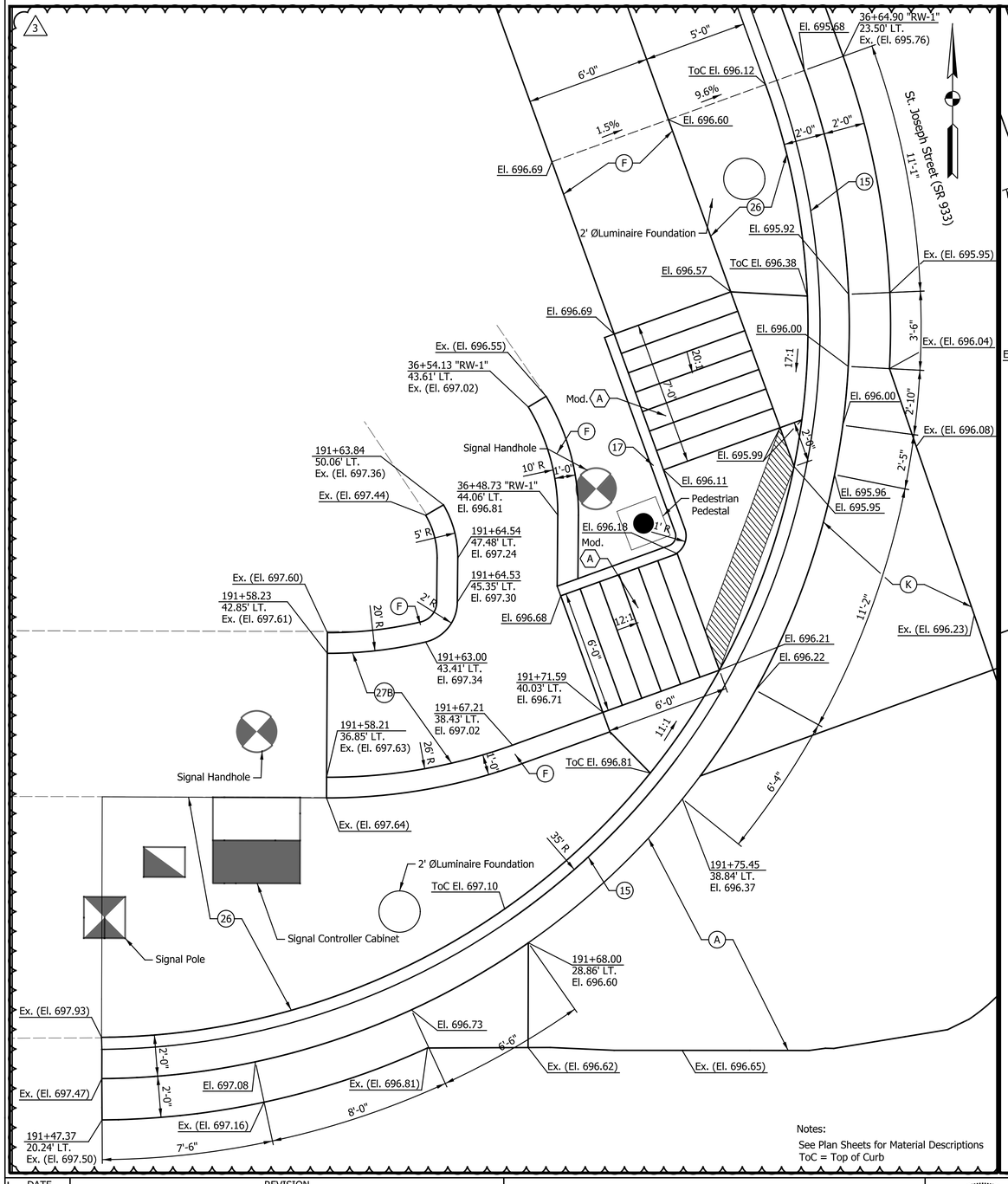

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT COLFAX AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	115 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:07:28 PM P:\2014\01351\D. Drawings\201401351.RD.MD.COL_STJO_N.dgn

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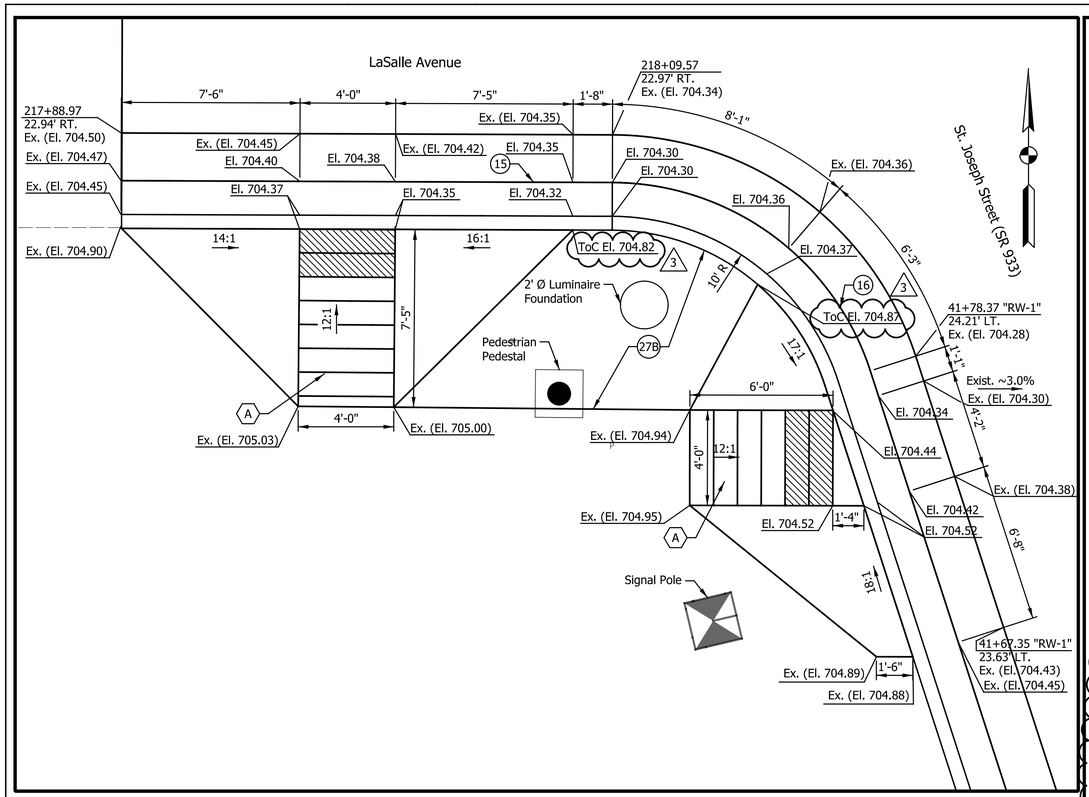

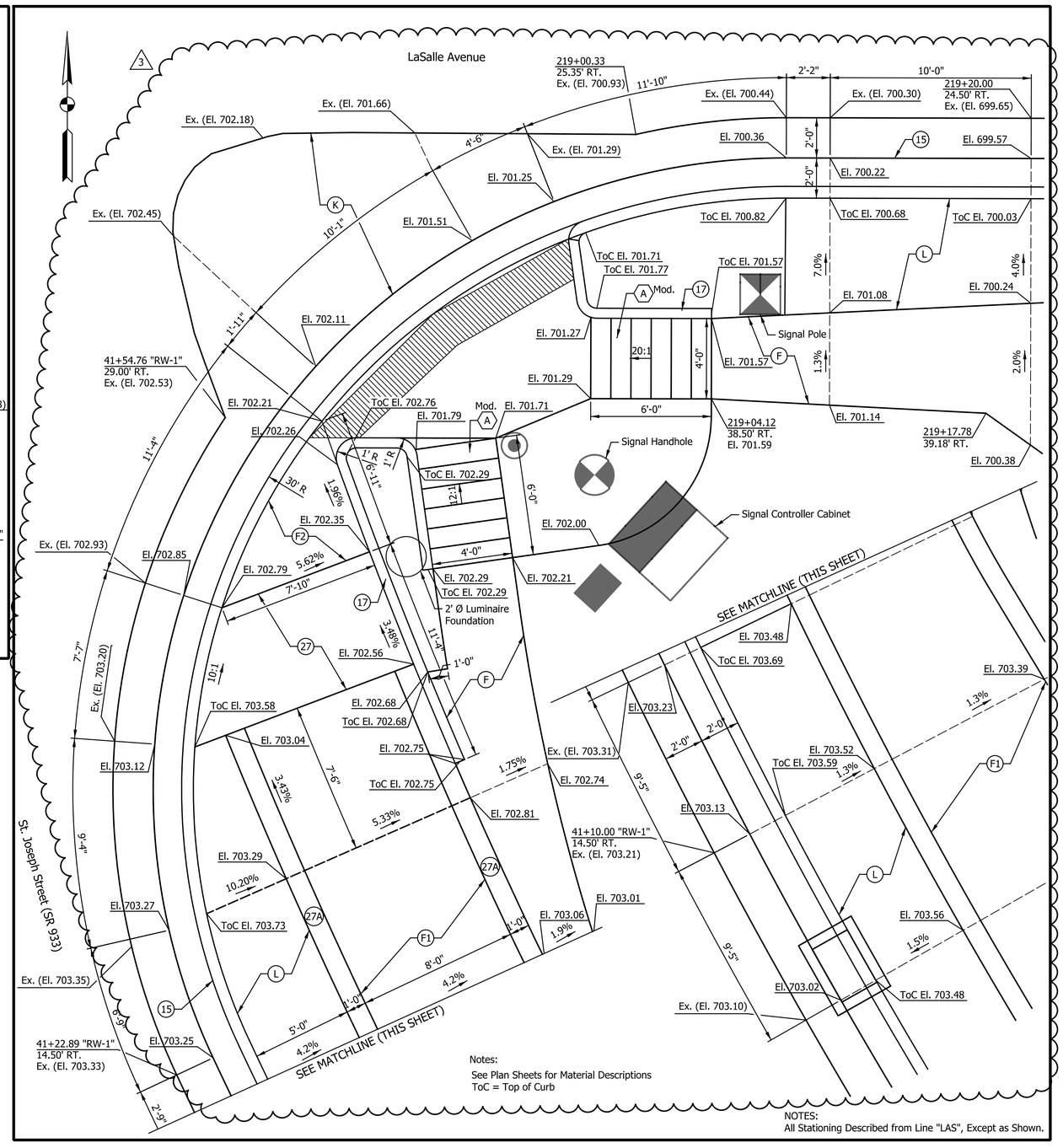

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	116 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-dhf.dfcfg
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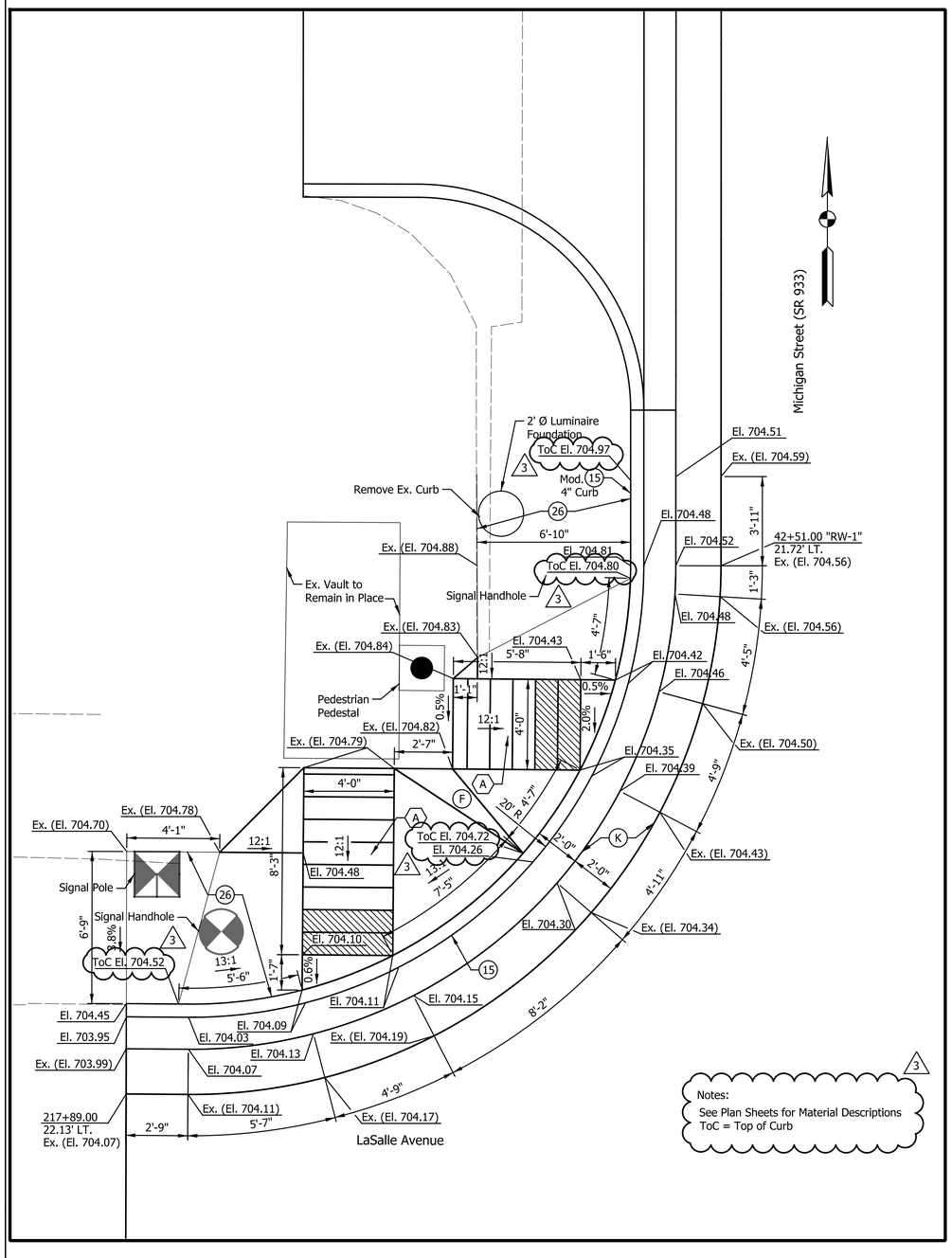
jgee 2/15/2016 5:07:31 PM P:\2014\01351\D. Drawings\20140135I.RD.MD.LAS.STJO_S.dgn



SEE NEXT SHEET FOR N.E. CORNER

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

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.W. CORNER OF ST. JOSEPH ST. & LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	117 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indx-Pref.dfnfs
20140135l_Sheade.tbl

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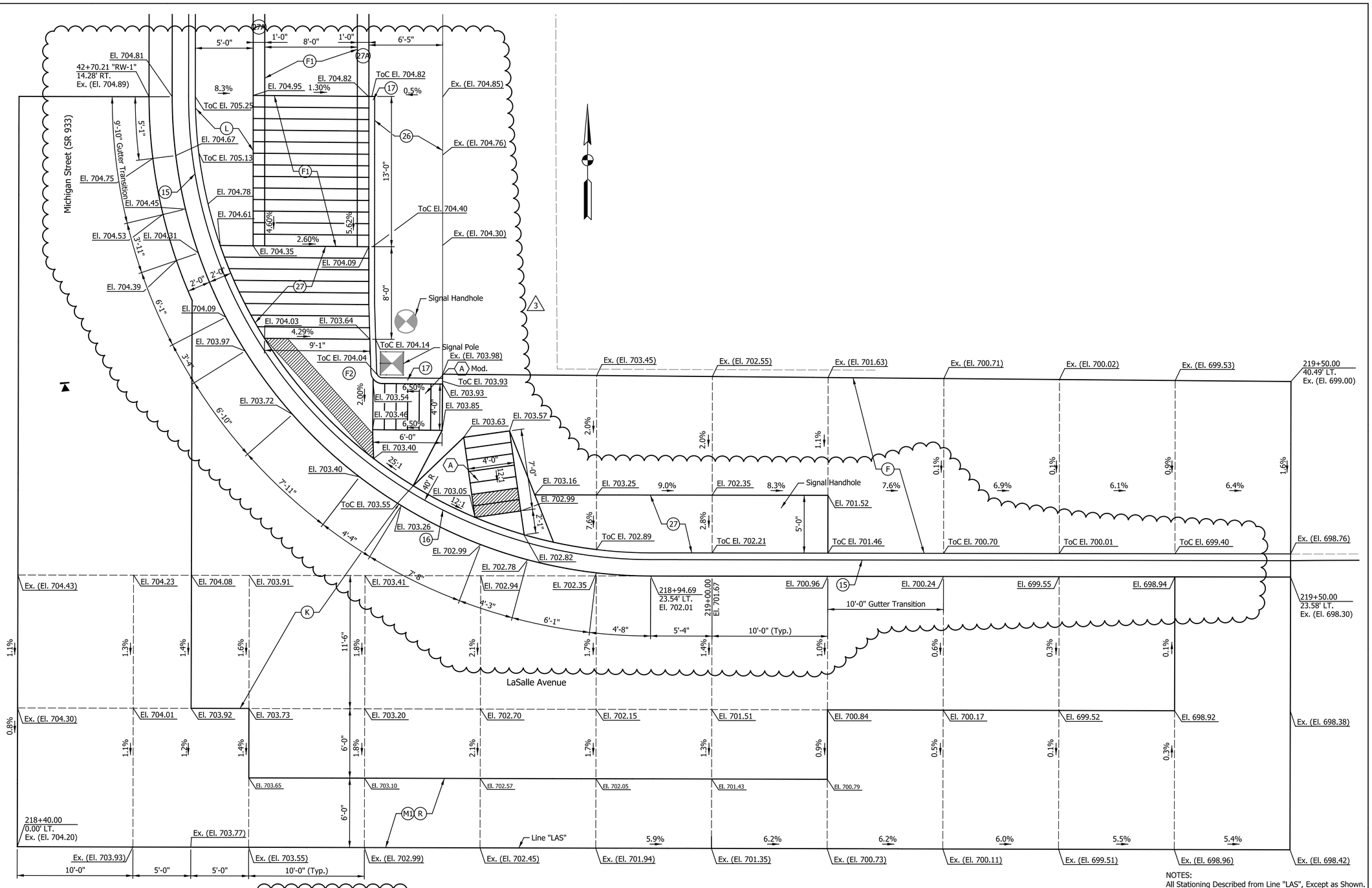


NOTES:
All Stationing Described from Line "LAS", Except as Shown.

DATE	REVISION
2/12/2016	REV 3: Revised Significant Amount of Elevations & Grades

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb
3

PATRICK K. WOODEN
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

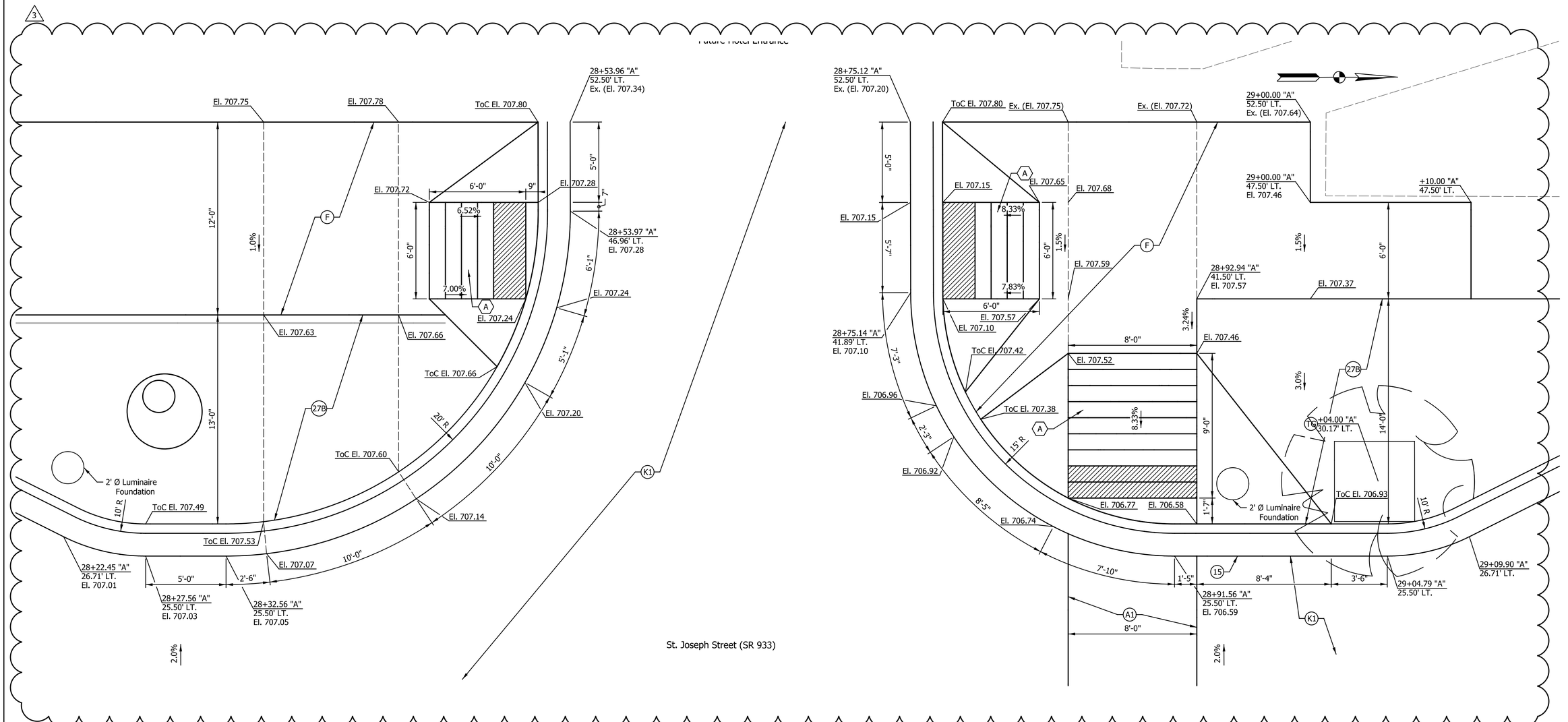
CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
N.E. COR. OF ST. JOSEPH ST. & LaSALLE AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	118 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Index.dgn.cfg
20140135l_3Node.tbl

jgee 2/15/2016 5:07:35 PM P:\2014\01351\D. Drawings\20140135l.RD.MD.LAS.STJO_NE.dgn



DATE	REVISION
2/12/2016	REV 3: Revised Hotel Entrance

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

PATRICK R. WOODEN
REGISTERED
No.
10504741
STATE OF
INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

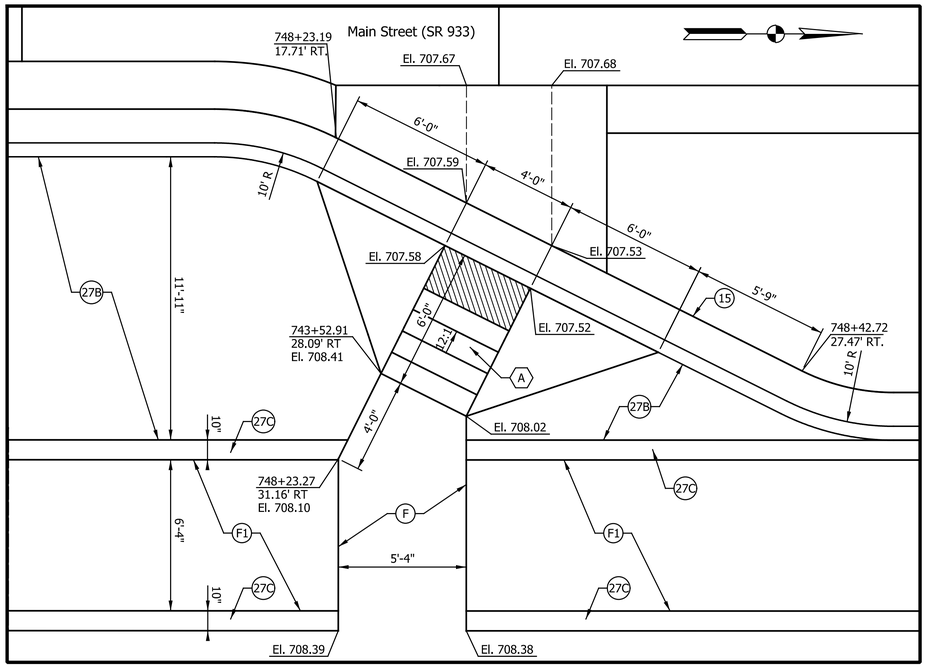
CITY OF SOUTH BEND

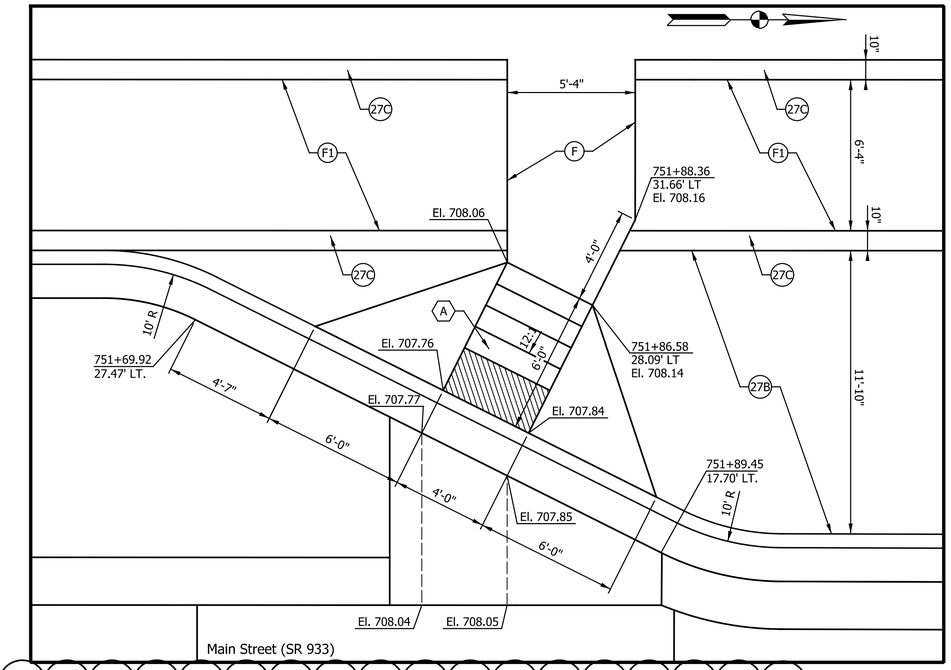
CURB RAMP & SPOT ELEVATION DETAILS
ST. JOSEPH ST. AT HOTEL ENTRANCE

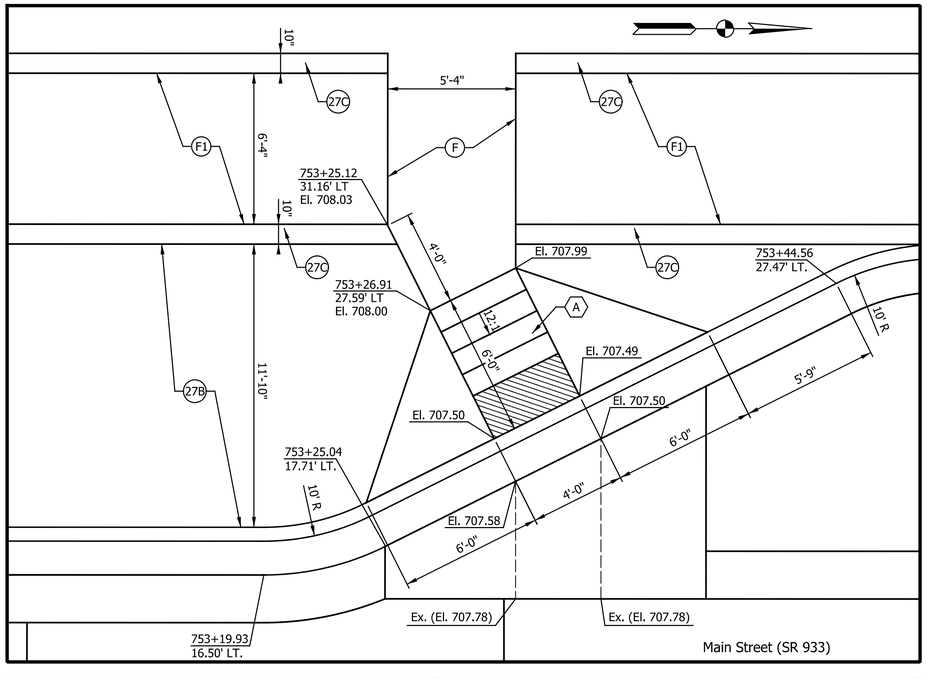
HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	120 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

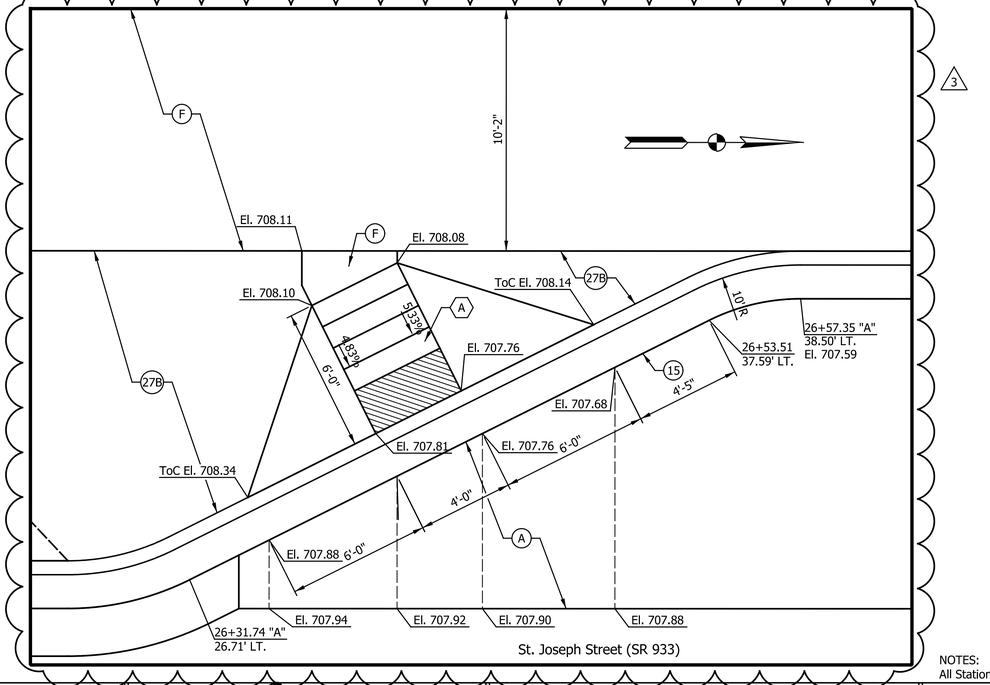
Indy-Pdf.dfcfg
201401351_Sheets.tbl

jgee 2/15/2016 5:07:37 PM P:\2014\01351\D. Drawings\201401351.RD.MD.Hotel.dgn









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

DATE	REVISION
2/12/2016	REV 3: Added Additional Handicap Ramp

Notes:
See Plan Sheets for Material Descriptions
ToC = Top of Curb

PATRICK R. WOOLEY
REGISTERED
No. 10504741
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER — 1/7/2016 DATE

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

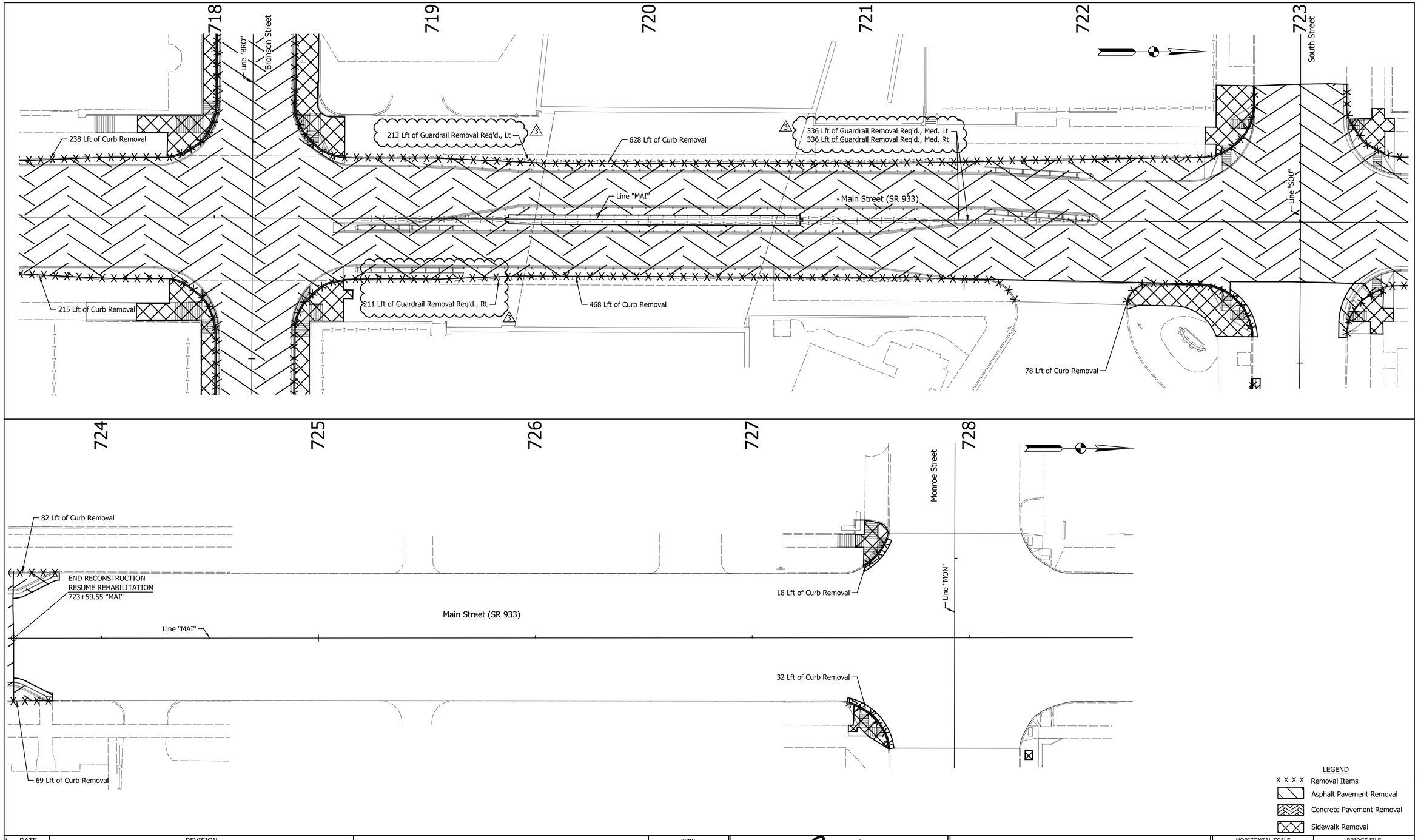
CITY OF SOUTH BEND

CURB RAMP & SPOT ELEVATION DETAILS
MAIN ST. & ST. JOSEPH ST. - HANDICAP RAMPS

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	122 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Indy-Pdf.dfnfo
20140135_Shade.tbl

Jgee 2/15/2016 5:07:39 PM P:\2014\01351\D. Drawings\201401351.RD.MD.HandicapRamps2.dgn



LEGEND

X X X X Removal Items

Asphalt Pavement Removal

Concrete Pavement Removal

Sidewalk Removal

DATE	REVISION
2/12/2016	REV 3: Removed Additional Guardrail

PATRICK R. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

DEMOLITION PLAN
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	124 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Irdv-dhf.dfc6
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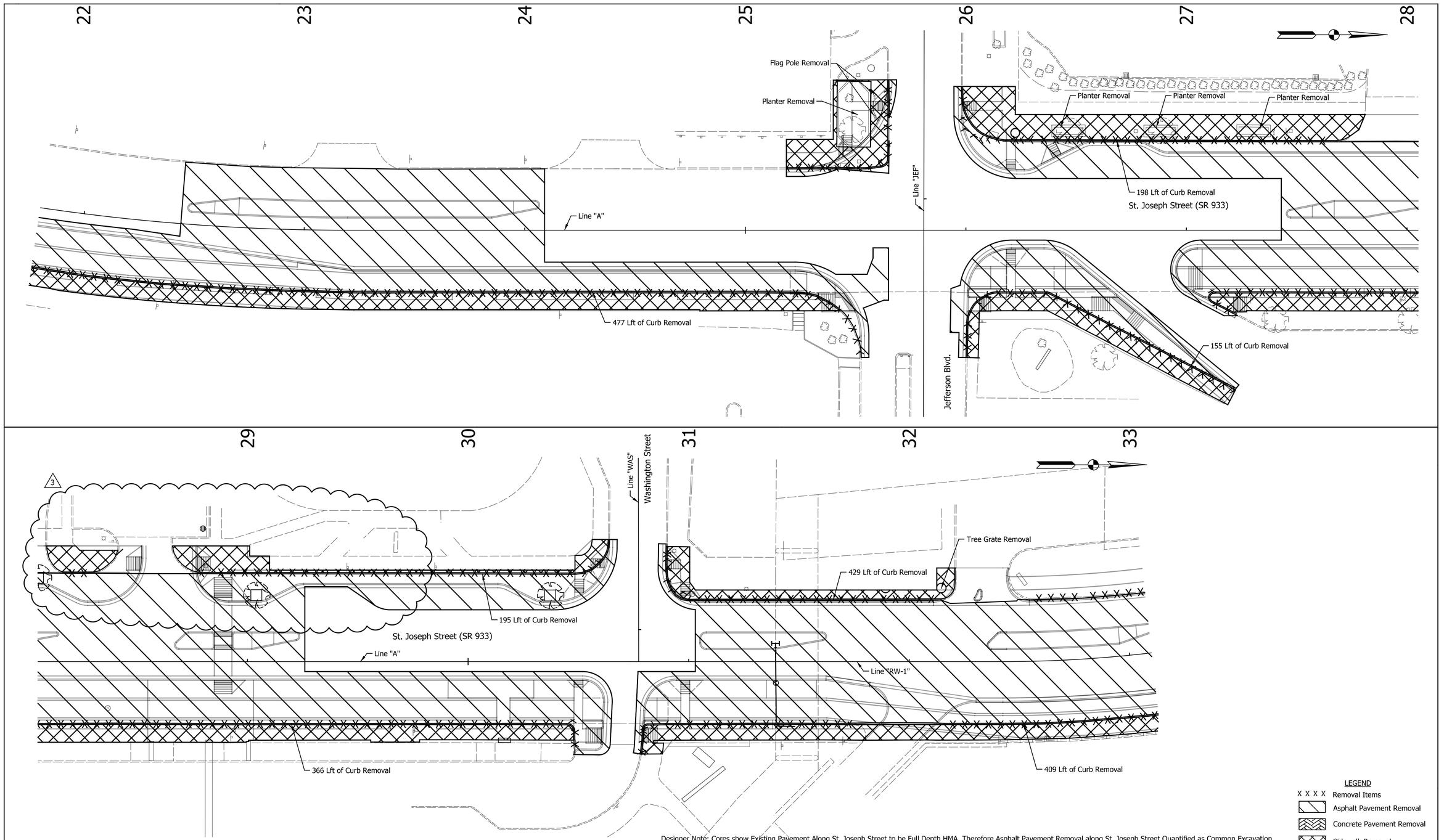

Designer Note: Cores show Existing Pavement Along St. Joseph Street to be Full Depth HMA. Therefore Asphalt Pavement Removal along St. Joseph Street Quantified as Common Excavation.

LEGEND

- X X X X Removal Items
- Asphalt Pavement Removal
- Concrete Pavement Removal
- Sidewalk Removal

DATE	REVISION
2/12/2016	REV 3: Revised Sidewalk Removal

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

DEMOLITION PLAN
ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	131 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Index-dsht.dfn.dgn
20140135I_SIheade.tbl

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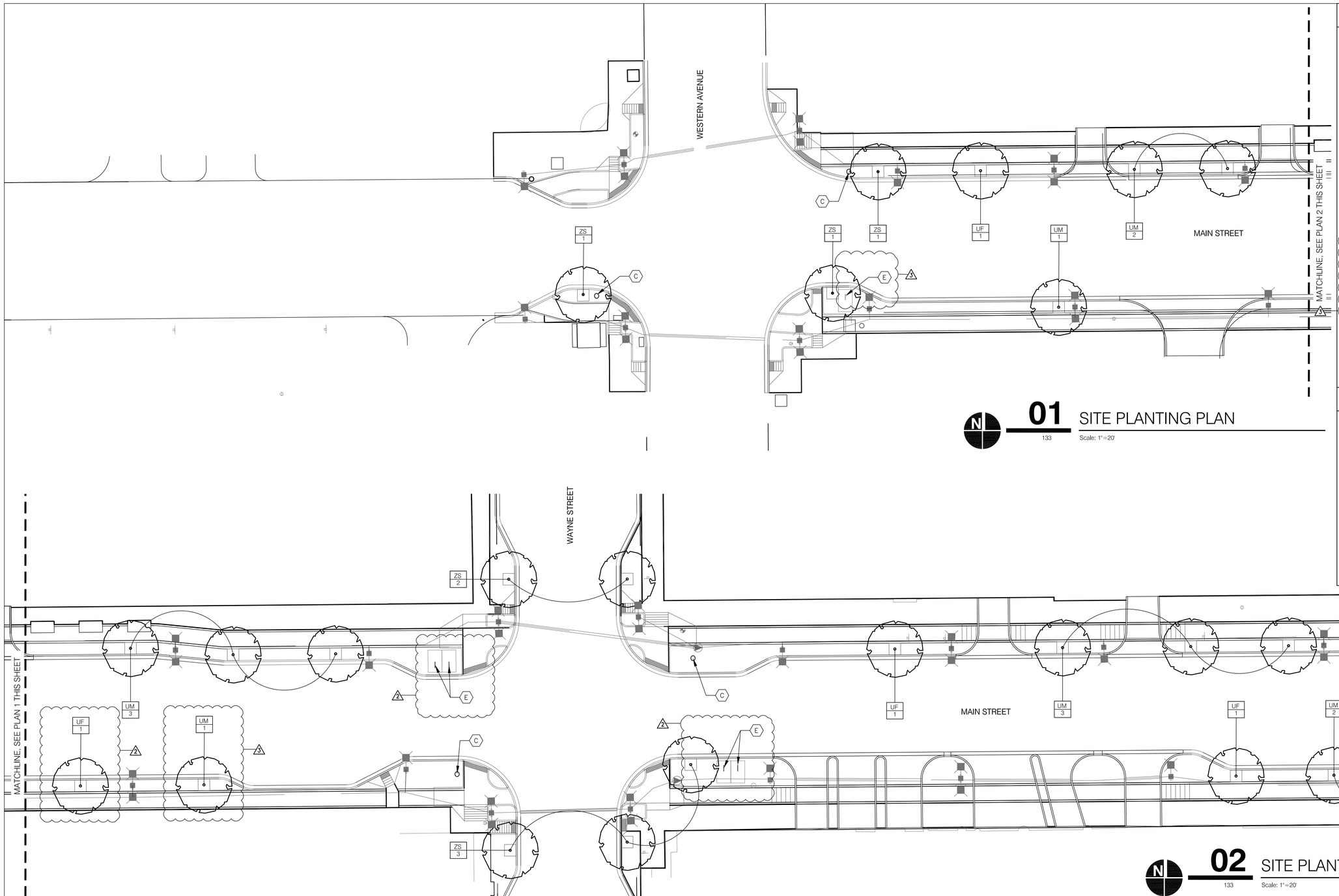


LANDSCAPING KEYNOTES

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 MANUFACTURE'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.

G. BIKE REPAIR STATION.
DERO FIXIT BIKE REPAIR STATION OR APPROVED EQUAL. COLOR: DEEP RED. BIKE REPAIR STATION SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

H. PEDESTAL MOUNTED DRINKING FOUNTAIN.
PEDESTAL MOUNTED DRINKING FOUNTAIN SHALL BE MURDOCK, GR SERIES MODEL GRM44-FRU2. STAINLESS STEEL FINISH OR APPROVED EQUAL.

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
- SP / QT — PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)
- MULCH BED (DOUBLE-SHREDDED HARDWOOD BARK MULCH)

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

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

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 2
2/12/16	REV 3: MODIFIED PLAN 1, 2 AND KEYNOTES

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 01/07/2016 DATE

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

CITY OF SOUTH BEND

PLANTING PLANS
MAIN STREET

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

$PLTDRV$
$PENTBL$

$USER $DATE$ $TIME$ $FILEA$

LANDSCAPING LEGEND

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

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 MANUFACTURE'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.

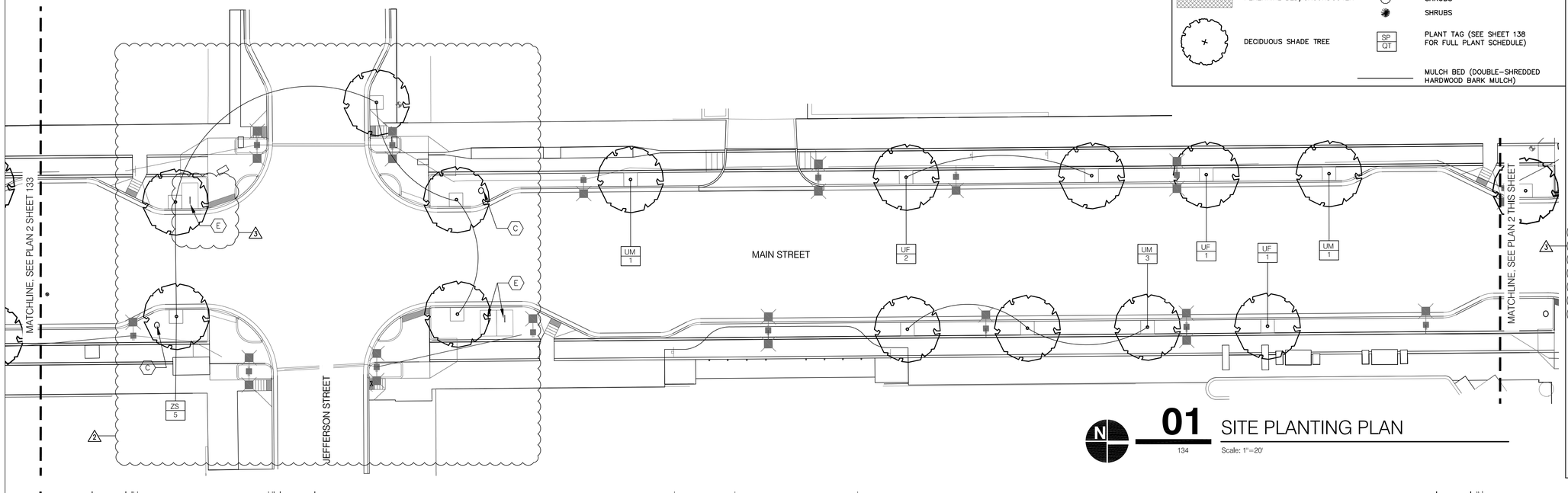
G. BIKE REPAIR STATION.
DERO FIXIT BIKE REPAIR STATION OR APPROVED EQUAL. COLOR: DEEP RED. BIKE REPAIR STATION SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

H. PEDESTAL MOUNTED DRINKING FOUNTAIN.
PEDESTAL MOUNTED DRINKING FOUNTAIN SHALL BE MURDOCK, GR SERIES MODEL GRM44-FRU2. STAINLESS STEEL FINISH OR APPROVED EQUAL.

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.

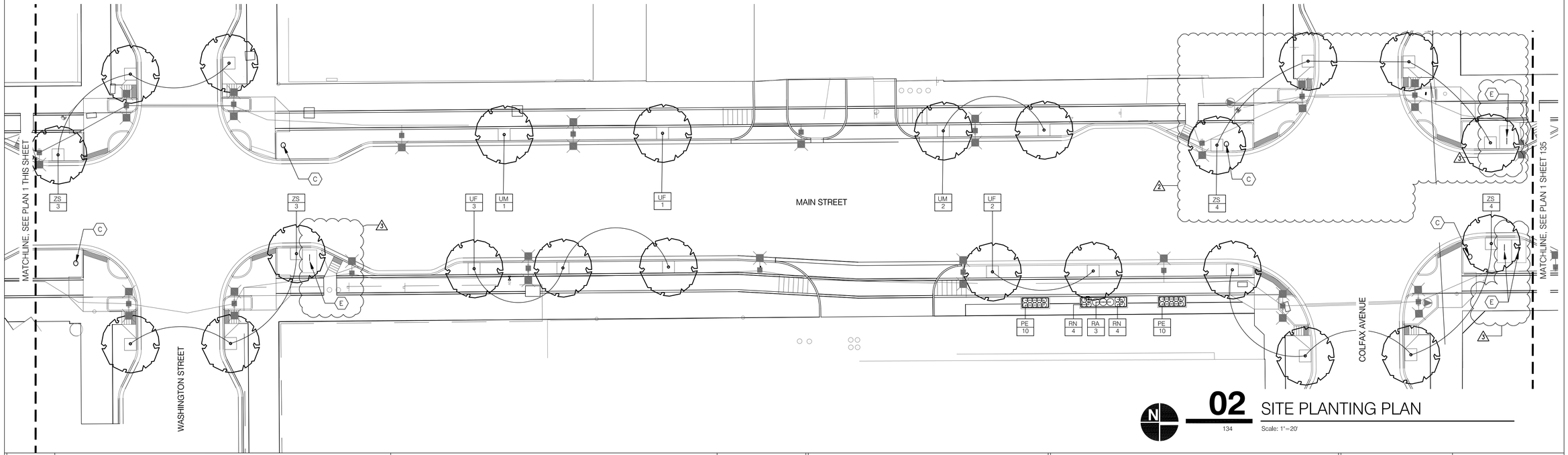
SEE SHEET 139 FOR CYCLE TRACK SIGNAGE AND PAVEMENT MARKING DETAILS.



N

01 SITE PLANTING PLAN

134 Scale: 1"=20'



N

02 SITE PLANTING PLAN

134 Scale: 1"=20'

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 1 AND 2
2/12/16	REV 3: MODIFIED PLAN 1, 2 AND KEYNOTES

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

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

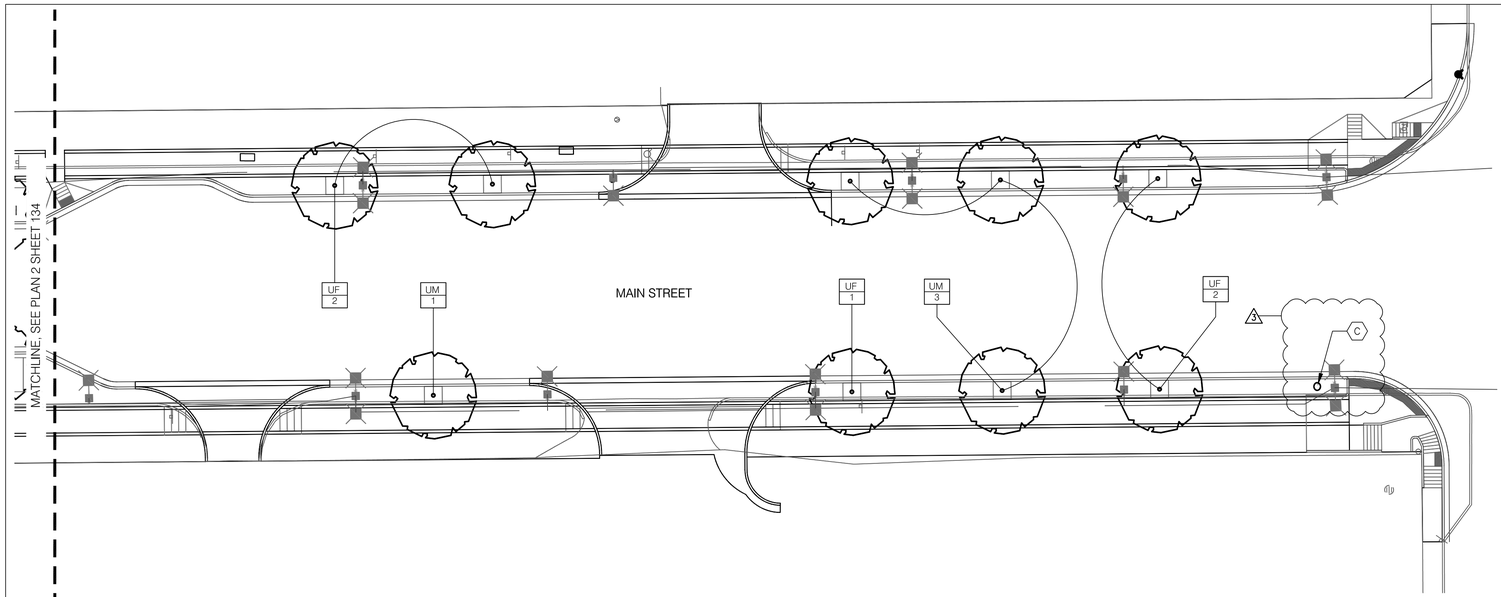
CITY OF SOUTH BEND

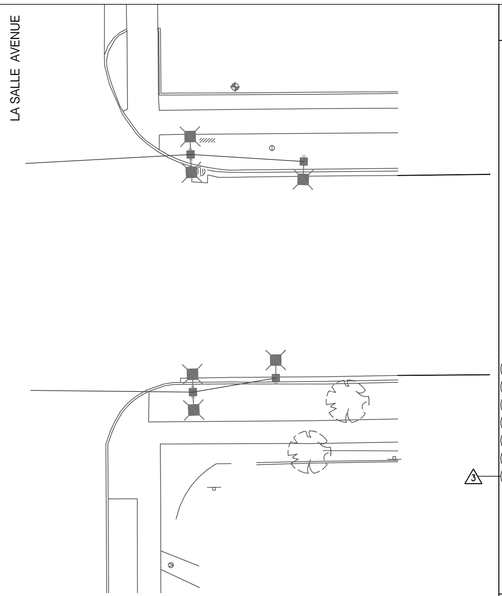
PLANTING PLANS
MAIN STREET

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

$RLTDRVS$
$PENTBL$$

$USER $DATE$ $TIME$ $FILEA$





N

01 SITE PLANTING PLAN

135

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 MANUFACTURE'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.

G. BIKE REPAIR STATION.
DERO FIXIT BIKE REPAIR STATION OR APPROVED EQUAL. COLOR: DEEP RED. BIKE REPAIR STATION SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

H. PEDESTAL MOUNTED DRINKING FOUNTAIN.
PEDESTAL MOUNTED DRINKING FOUNTAIN SHALL BE MURDOCK, GR SERIES MODEL GRM44-FRU2. STAINLESS STEEL FINISH OR APPROVED EQUAL.

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

SP / QT — PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)

MULCH BED (DOUBLE-SHREDDED HARDWOOD BARK MULCH)

DATE	REVISION
2/12/16	REV 3: MODIFIED PLAN 1 AND KEYNOTES

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

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

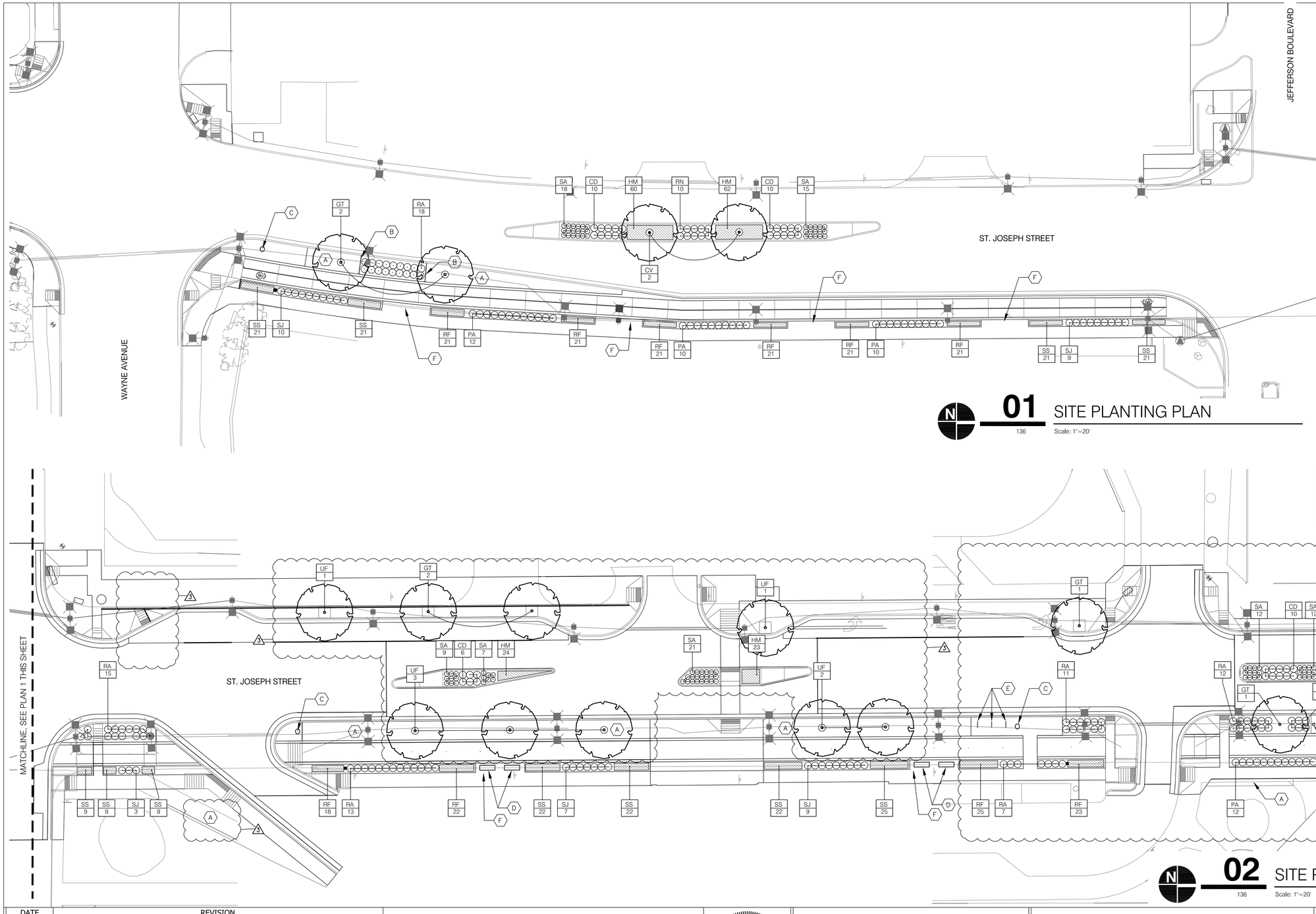
CITY OF SOUTH BEND

PLANTING PLANS
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	135 of 246
CONTRACT	PROJECT
N/A	115-019

$RLTDRVS$
$PENTBL$$

$USER $DATE$ $TIME$ $FILEA$



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.

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E. BICYCLE RACK.
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F. CONCRETE SIDEWALK CONNECTION. SEE DETAIL 3, SHEET 141.

G. BIKE REPAIR STATION.
DERO FIXIT BIKE REPAIR STATION OR APPROVED EQUAL. COLOR: DEEP RED. BIKE REPAIR STATION SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

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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

SP / QT — PLANT TAG (SEE SHEET 138 FOR FULL PLANT SCHEDULE)

MULCH BED (DOUBLE-SHREDDED HARDWOOD BARK MULCH)

01 136 SITE PLANTING PLAN
Scale: 1"=20'

02 136 SITE PLANTING PLAN
Scale: 1"=20'

DATE	REVISION
2/12/16	REV 3: MODIFIED PLAN 2 AND KEY NOTES

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

CITY OF SOUTH BEND

PLANTING PLANS
ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	136 of 246
CONTRACT	PROJECT
N/A	115-019

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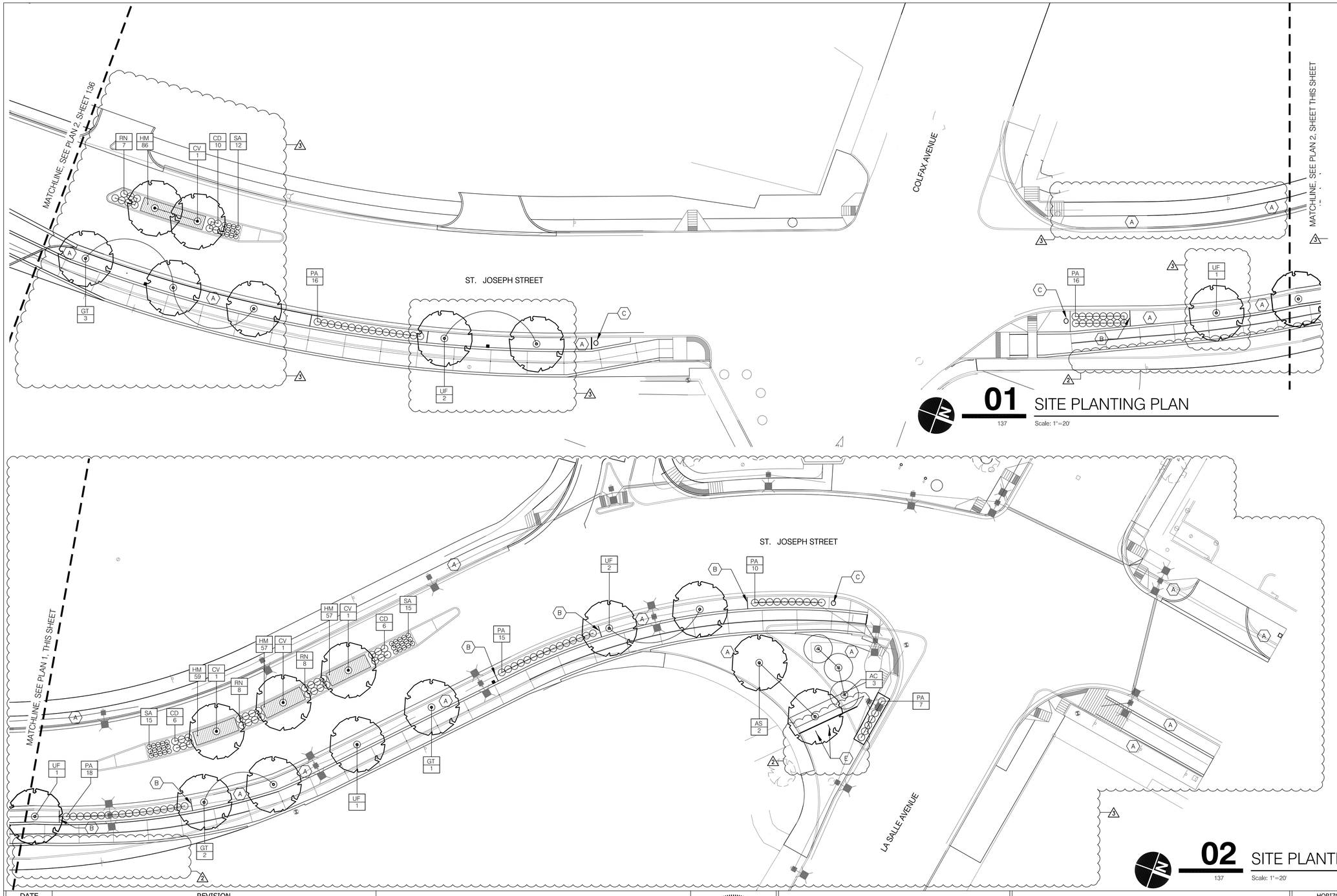


01 SITE PLANTING PLAN

137

Scale: 1"=20'

02 SITE PLANTING PLAN

137

Scale: 1"=20'

DATE	REVISION
1/29/16	REV 2: MODIFIED PLAN 1 AND 2
2/12/16	REV 3: MODIFIED PLAN 1, 2 AND KEYNOTES

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

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

CITY OF SOUTH BEND

PLANTING PLANS

ST. JOSEPH STREET

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

$PLTDRV$
$PENTBL$

$USER $DATE$ $TIME$ $FILEA$

PLANT MATERIALS SCHEDULE

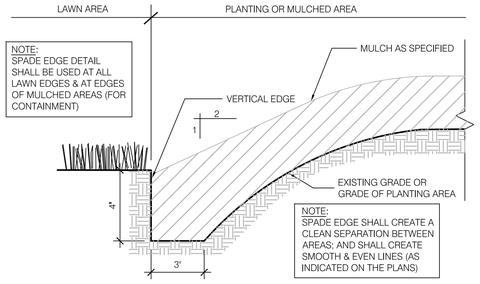
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	COND.	SPACING	NOTES	PAY ITEM
DECIDUOUS TREES:								
3	AC	Amelanchier x grandiflora ' Autumn Brilliance'	Autumn Brilliance Serviceberry	2" Cal.	N/A	As Shown	MILTI-TRUNK, DENSE BRANCHING, DARK GREEN FOLIAGE	ORNAMENTAL TREE 2" CAL.
2	AS	Acer saccharum 'Green 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.
7	CV	Crateagus Virdis '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.
12	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.
34	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.
SHRUBS AND GRASSES:								
52	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 'Hameln'	Dwarf Fountain Grass	1 Gal.	Cont.	2' O.C.		ORNAMENTAL GRASS, NO. 1
103	RA	Rhus aromatica 'Gro-Lo'	Gro- Lo Sumac	3 Gal.	Cont.	3' O.C.		SHRUB, NO. 3
41	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
PERENNIALS:								
428	HM	Hemerocallis 'Happy Returns'	Happy Returns Daylily	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
238	RF	Rudbeckia fulgida 'Goldstrum'	Brown Eyed Susan	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
135	SA	Sedum 'Autumn Fire'	Autumn Fire Sedum	1 Gal.	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PERENNIAL, NO. 1
202	SS	Schizachyrium scoparium	Little Bluestem	Plug	Cont.	18" O.C.	FULL IN POT, DARK GREEN FOLIAGE, HEALTHY	PLUG

GENERAL PLANTING NOTES:

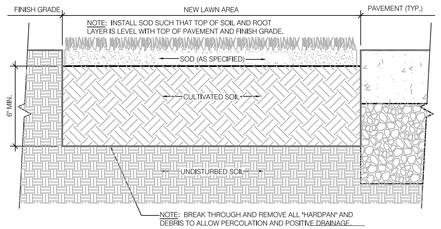
1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
2. A MINIMUM OF 4" OF TOPSOIL SHALL BE PLACED ON ALL AREAS TO BE SEEDED 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.
3. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
4. 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.
5. 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.
6. 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 CONTRACTOR'S OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
7. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
8. 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.
9. 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.
10. 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.
11. 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 (½") AND LARGER SHALL BE REMOVED.

GENERAL LAWN NOTES:

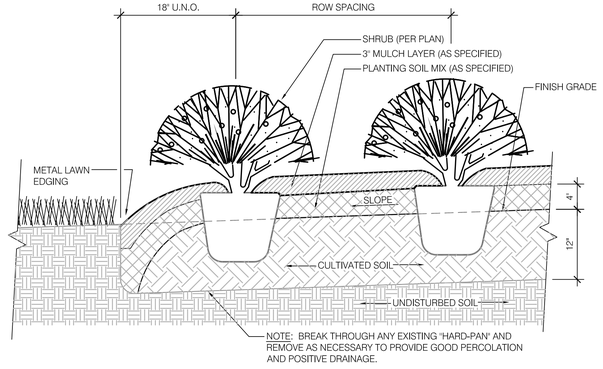
1. ALL DISTURBED LAWN AREAS SHALL BE HYDRO-SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
2. LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY HYDRO-SEED OR SOD WORK.
3. ALL LAWN AND SOD IS TO BE A BLUEGRASS BLEND 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%
4. 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 ½ INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.
5. LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
6. 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

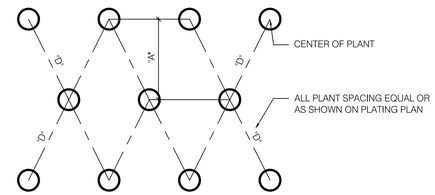


PLANTING PROCEDURE

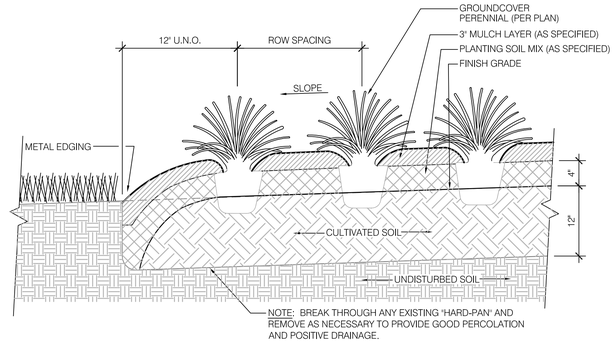
1. LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
2. ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
3. INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

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

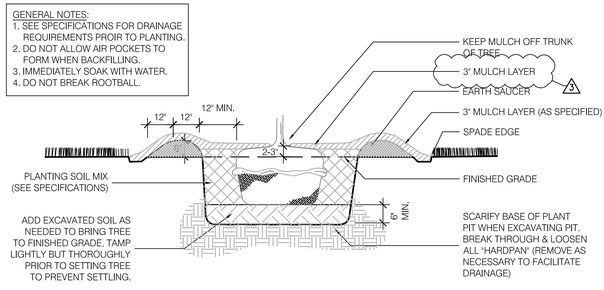


PLANTING PROCEDURE

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

02 GROUNDCOVER DETAIL
138 NOT TO SCALE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS PROIR TO PLANTING.
2. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
3. IMMEDIATELY SOAK WITH WATER.
4. DO NOT BREAK ROOTBALL.



PLANTING PROCEDURE

1. EXCAVATE ROOTBALL PIT
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL WITH SOIL MIX & "WATER IN"
4. COMPLETE BACKFILLING, CONSTRUCT SAUCER, SPADE EDGE & ADD MULCH
5. 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
2/12/16	REV 3: MODIFY DETAIL 1 AND PLANT SCHEDULE

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 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)

$PLTDRVS$
$PENTBL$$

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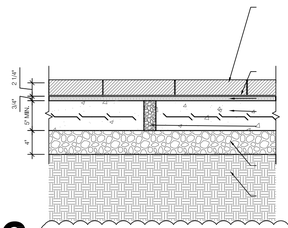
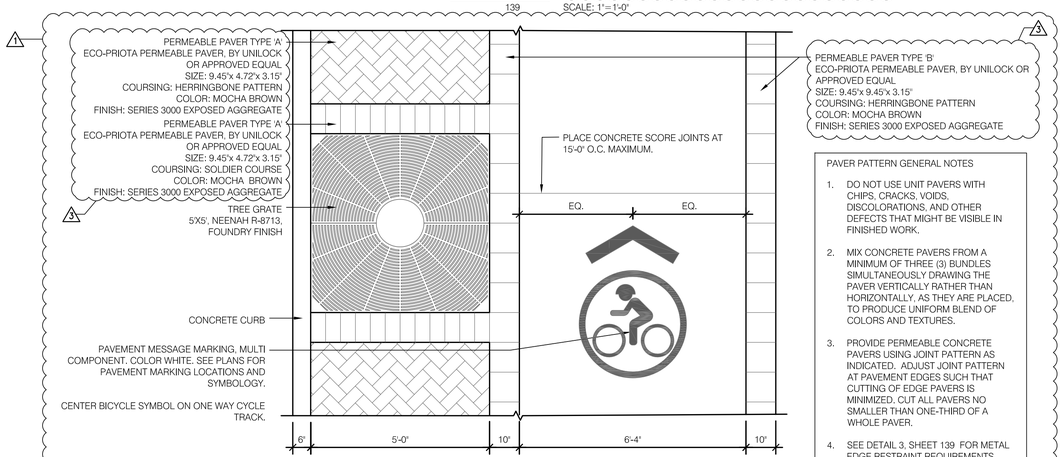


06 BRICK, DECORATIVE DETAIL ⚠1

139 SCALE: 1"=1'-0"

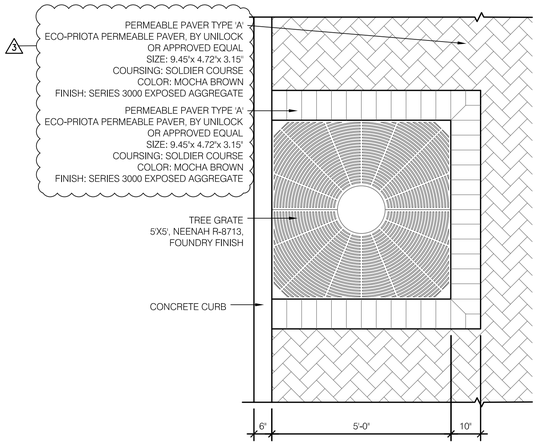


PAVER PATTERN GENERAL NOTES

1. DO NOT USE UNIT PAVERS WITH CHIPS, CRACKS, VOIDS, DISCOLORATIONS, AND OTHER DEFECTS THAT MIGHT BE VISIBLE IN FINISHED WORK.
2. MIX CONCRETE PAVERS FROM A MINIMUM OF THREE (3) BUNDLES SIMULTANEOUSLY DRAWING THE PAVER VERTICALLY RATHER THAN HORIZONTALLY, AS THEY ARE PLACED, TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES.
3. PROVIDE PERMEABLE CONCRETE PAVERS USING JOINT PATTERN AS INDICATED. ADJUST JOINT PATTERN AT PAVEMENT EDGES SUCH THAT CUTTING OF EDGE PAVERS IS MINIMIZED. CUT ALL PAVERS NO SMALLER THAN ONE-THIRD OF A WHOLE PAVER.
4. SEE DETAIL 3, SHEET 139 FOR METAL EDGE RESTRAINT REQUIREMENTS.

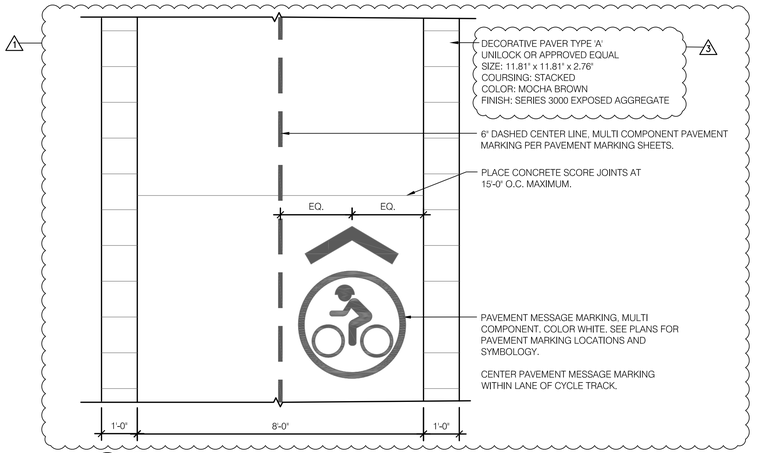
05 ONE WAY CYCLE TRACK PAVEMENT PATTERN

139 SCALE: 1/2"=1'-0"



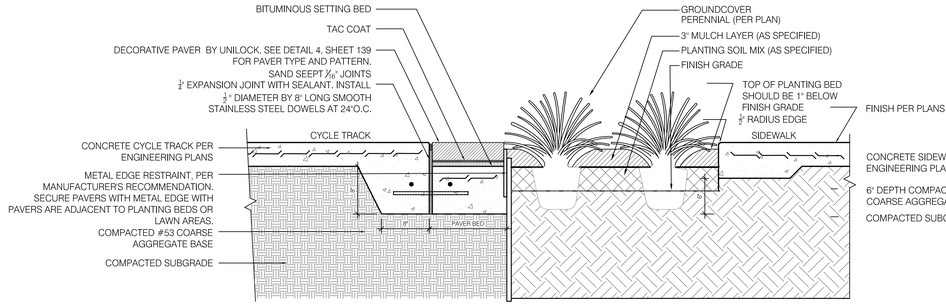
07 TREE GRATE PAVER PATTERN

139 SCALE: 1/2"=1'-0"



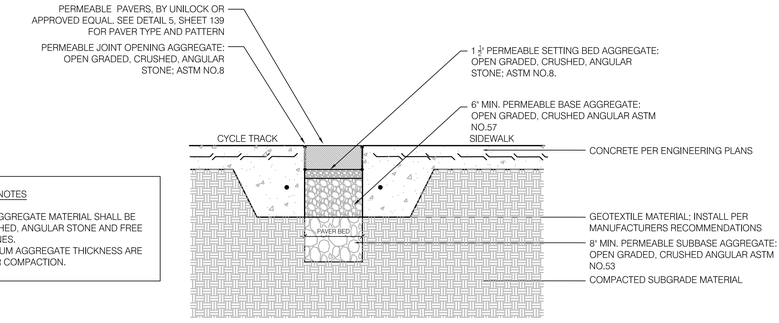
04 TWO WAY CYCLE TRACK PAVEMENT PATTERN

139 SCALE: 1/2" 1'-0"



03 BRICK, DECORATIVE EDGE AT TWO WAY CYCLE TRACK ⚠1

139 SCALE: 1"=1'-0"

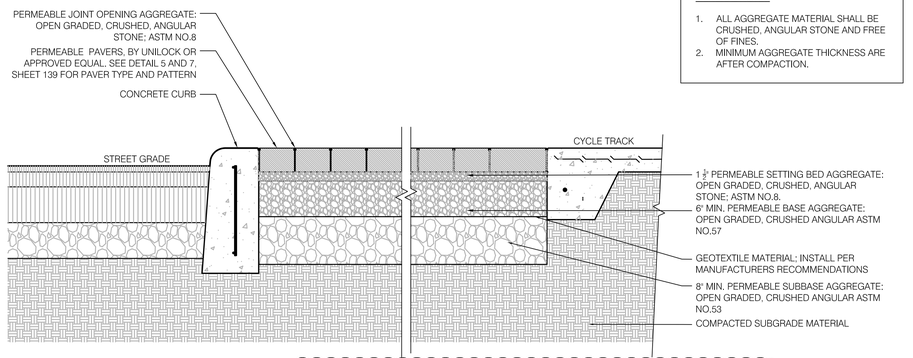


GENERAL NOTES

1. ALL AGGREGATE MATERIAL SHALL BE CRUSHED, ANGULAR STONE AND FREE OF FINES.
2. MINIMUM AGGREGATE THICKNESS ARE AFTER COMPACTION.

02 BRICK, DECORATIVE PERMEABLE BAND ⚠1

139 SCALE: 1"=1'-0"



GENERAL NOTES

1. ALL AGGREGATE MATERIAL SHALL BE CRUSHED, ANGULAR STONE AND FREE OF FINES.
2. MINIMUM AGGREGATE THICKNESS ARE AFTER COMPACTION.

01 BRICK, DECORATIVE, PERMEABLE DETAIL ⚠1

139 SCALE: 1"=1'-0"

DATE	REVISION
1/15/16	REV 1: MODIFY DETAIL 1, 2, 3, 4, 5 AND 6.
2/12/16	REV 3: MODIFY DETAIL 4, 5 AND 7.

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

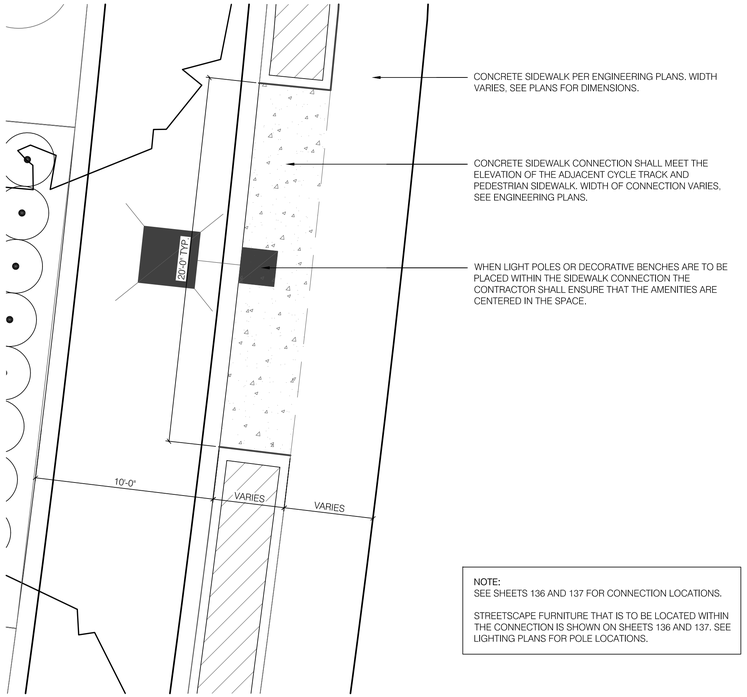
CITY OF SOUTH BEND

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	139 of 246
CONTRACT	PROJECT
N/A	115-01 (DIV B)

$RLTDRVS$
$PENTBL$$

$USER $DATE$ $TIME$ $FILEA$



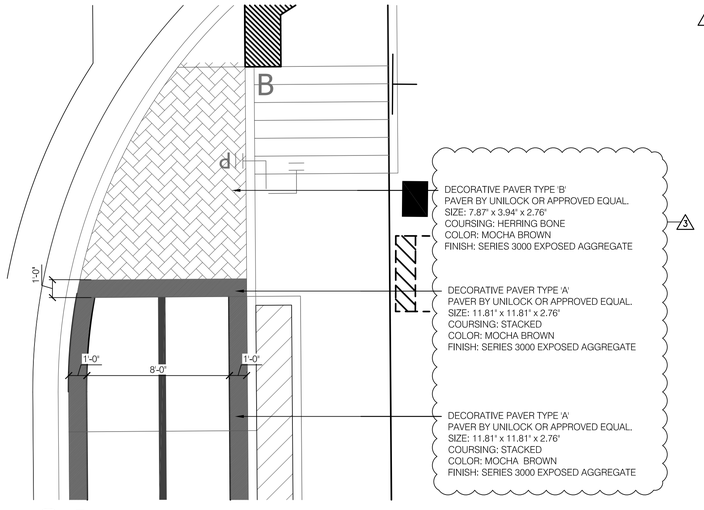
NOTE:
SEE SHEETS 136 AND 137 FOR CONNECTION LOCATIONS.

STREETSCAPE FURNITURE THAT IS TO BE LOCATED WITHIN THE CONNECTION IS SHOWN ON SHEETS 136 AND 137. SEE LIGHTING PLANS FOR POLE LOCATIONS.

03 CONCRETE SIDEWALK CONNECTION

141

SCALE: 1/4"=1'-0"



DECORATIVE PAVER TYPE 'B'
PAVER BY UNILOCK OR APPROVED EQUAL.
SIZE: 7.87" x 3.94" x 2.76"
COURSING: HERRING BONE
COLOR: MOCHA BROWN
FINISH: SERIES 3000 EXPOSED AGGREGATE

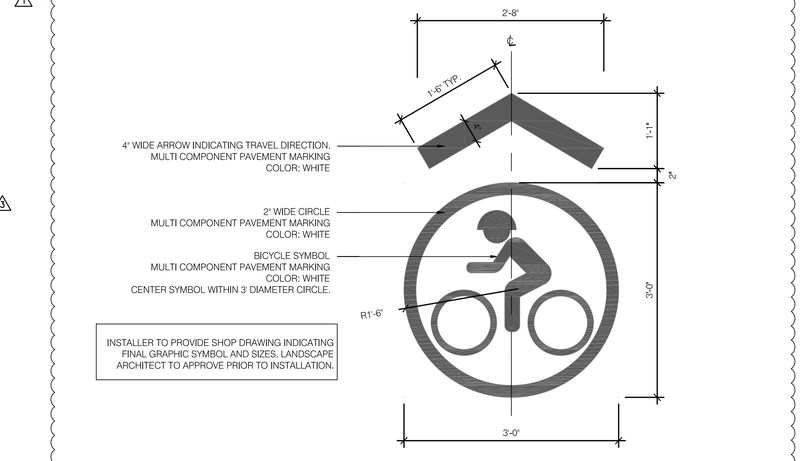
DECORATIVE PAVER TYPE 'A'
PAVER BY UNILOCK OR APPROVED EQUAL.
SIZE: 11.81" x 11.81" x 2.76"
COURSING: STACKED
COLOR: MOCHA BROWN
FINISH: SERIES 3000 EXPOSED AGGREGATE

DECORATIVE PAVER TYPE 'A'
PAVER BY UNILOCK OR APPROVED EQUAL.
SIZE: 11.81" x 11.81" x 2.76"
COURSING: STACKED
COLOR: MOCHA BROWN
FINISH: SERIES 3000 EXPOSED AGGREGATE

04 DECORATIVE PAVER AT INTERSECTION

141

SCALE: 1/4"=1'-0"

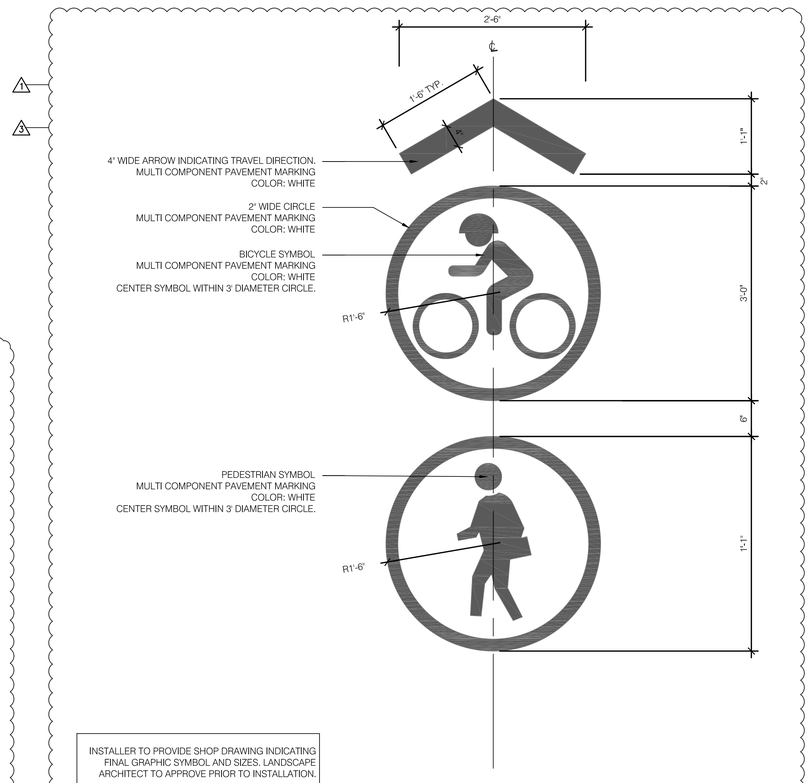


INSTALLER TO PROVIDE SHOP DRAWING INDICATING FINAL GRAPHIC SYMBOL AND SIZES. LANDSCAPE ARCHITECT TO APPROVE PRIOR TO INSTALLATION.

02 PAVEMENT MESSAGE MARKING, CYCLE TRACK SYMBOL

141

SCALE: 1"=1'-0"



INSTALLER TO PROVIDE SHOP DRAWING INDICATING FINAL GRAPHIC SYMBOL AND SIZES. LANDSCAPE ARCHITECT TO APPROVE PRIOR TO INSTALLATION.

01 PAVEMENT MESSAGE MARKING, SHARED CYCLE TRACK

141

SCALE: 1"=1'-0"

DATE	REVISION
1/15/16	REV 1: MODIFIED DETAIL 1 AND 2
2/12/16	REV 1: MODIFIED DETAIL 1 AND 4

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 01/07/2016 DATE

DESIGNED: CEC DRAWN: CEC

CHECKED: CEC CHECKED: CEC

CITY OF SOUTH BEND

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	141 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

$PLTDRV$
$PENTBL$

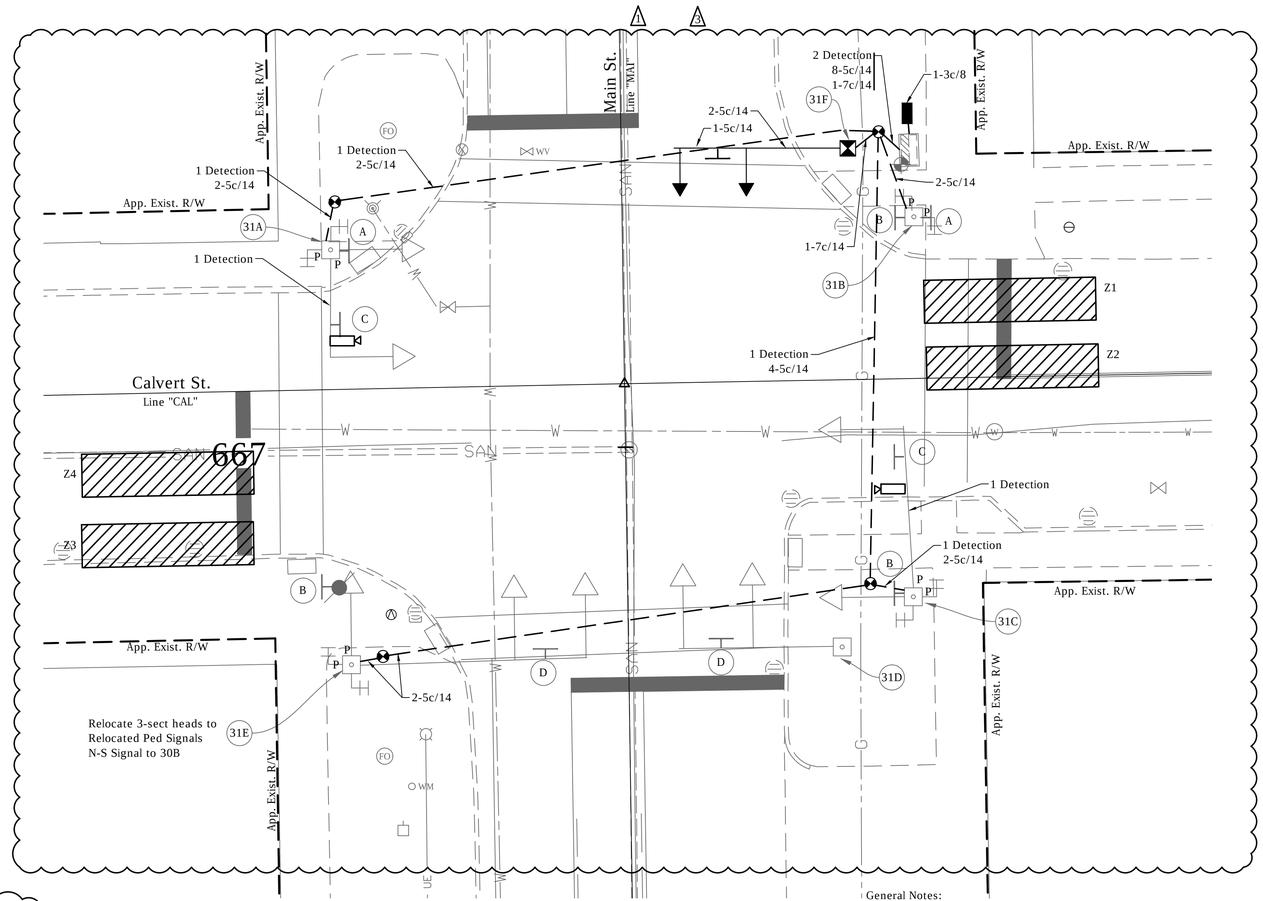
$USER $DATE$ $TIME$ $FILEA$

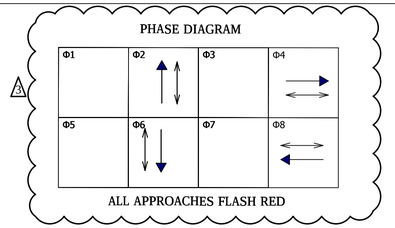
INTERSECTION NO. 31

Signal Supports

- 31A To Remain
- 31B To Remain
- 31C To Remain
- 31D Remove and Salvage
- 31E To Remain
- 31F New 25' Mast Arm Pole and Foundation

For Foundation Details, See Sheet 176





Existing
To be Removed

Existing
To be Removed

Main St (C)
Existing

Calvert St (D)
Existing

Legend

Existing	Proposed	
		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
TR or FO		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
	P	Pedestrian Push Button W/ R10-4B Sign
		Detection Camera
		Detection Zones

Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	8	5 Sec.
Z3	4	5 Sec.
Z4	4	5 Sec.

Detection Notes:
(1) All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
(2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

DATE	REVISION
1/15/2016	Rev 1: Revise Gen. Notes and Sign Callouts
2/12/2016	Rev 3: Add New Signal

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 loopads 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 Jeromy 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.
11. A 90 Day Flashing Period is Required Prior to Removal of This Traffic Signal. Flashing Operation Shall be Yellow for all North-South Movements and Red for all East-West Movements. Install SIGNAL UNDER STUDY FOR REMOVAL Sign on all Approaches Prior to Beginning 90 day Flashing Period. Remove Said Signs with Removal of Traffic Signal.

CITY OF SOUTH BEND

DESIGNER DATE:
DESIGN ENG. Harry Fox DATE: 01/07/2016

TRAFFIC SIGNAL DETAIL
MAIN ST & CALVERT ST

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. N/A | DRAWN BY BRD

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	143	246

COMM. NO. N/A

DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

DIRECTORY...F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\Signal Plans North\
FILE.....15-3329 Signal Plans north.dwg
PLOTTED BY...BRUCE
DATE.....Feb 15,2016 - 1:46pm

INTERSECTION NO.
30

Signal Supports

30A To Remain in Place

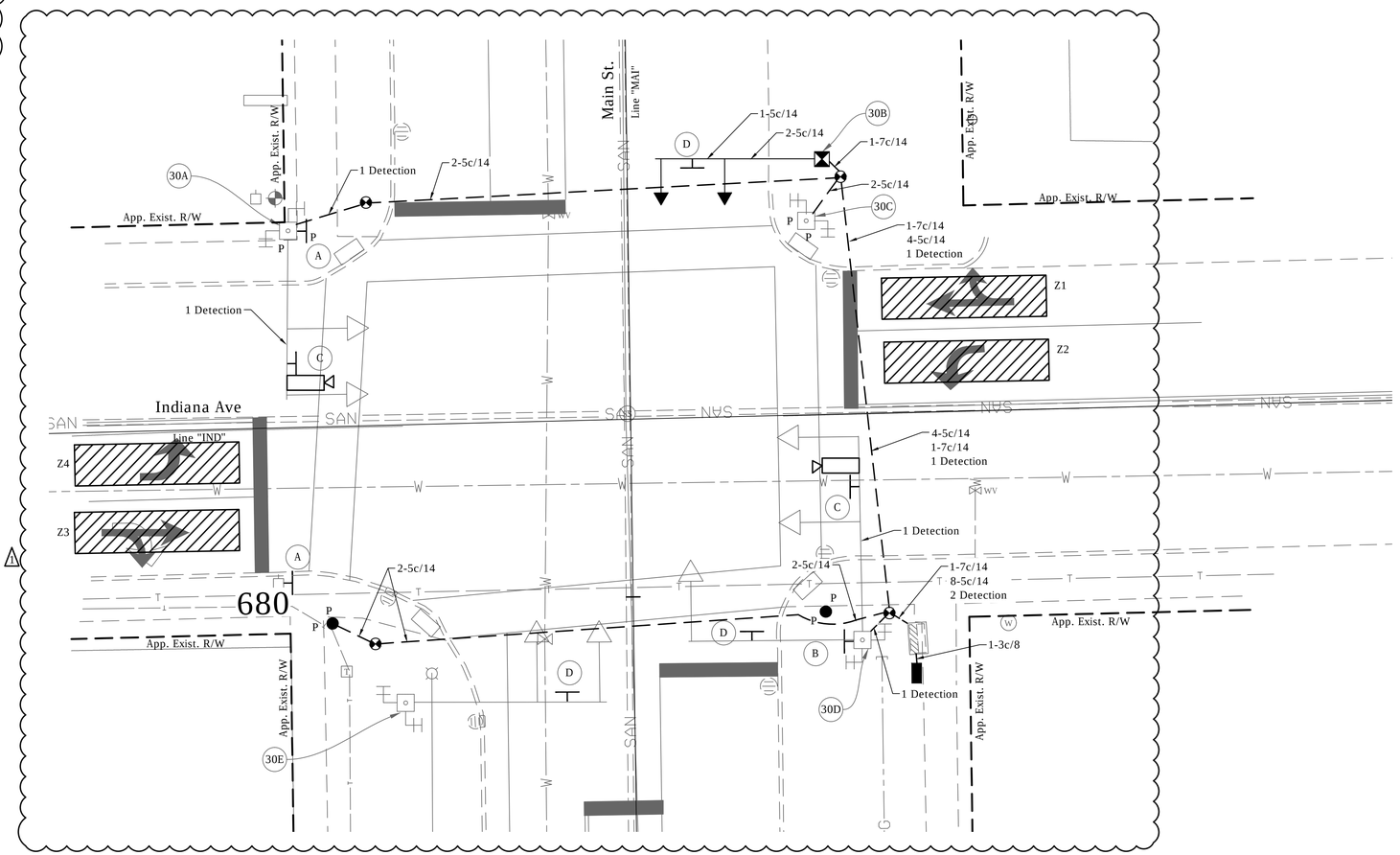
30B New 25ft Mast Arm

30C To Remain in Place

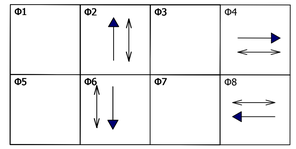
30D To Remain in Place, Remove SB Mast Arm

30E To Remain in Place

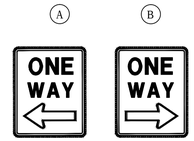
For Foundation Details, See Sheet 176



PHASE DIAGRAM



ALL APPROACHES FLASH RED



Existing To be Removed

Existing To be Removed

Main St (C) Existing

Indiana Ave (D) Existing

Legend

Existing	Proposed	
		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
TR or FO		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
	1 ● P	4' Traffic Signal Pedestal on "A" Foundation Pedestrian Push Button W/ R10-4B Sign
		Detection Camera
		Detection Zones

Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	8	5 Sec.
Z3	4	5 Sec.
Z4	4	5 Sec.

Detection Notes:
(1) All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
(2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

DATE	REVISION
1/15/2016	Rev 1: Add Pedestrian & Push Button & Conduit & Revised Gen. Notes
2/12/2016	Rev 3: Revise Signal Supports Notes

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 Jeromy 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.

CITY OF SOUTH BEND

DESIGNER DATE:

DESIGN ENG. Harry Fox DATE: 01/07/2016

TRAFFIC SIGNAL DETAIL
MAIN ST & INDIANA AVE

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. N/A

DRAWN BY BRD

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	144	246

COMM. NO. N/A

DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

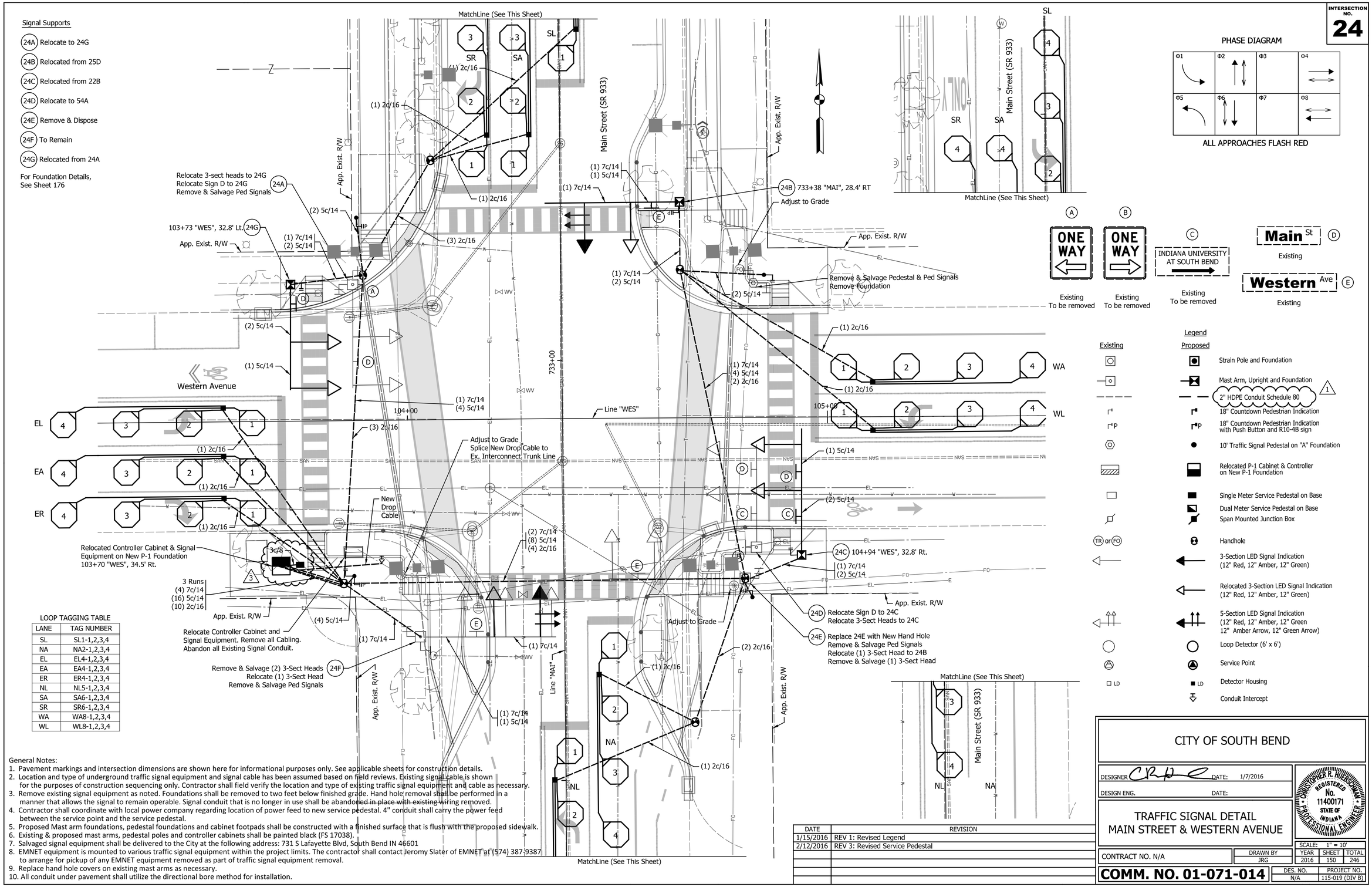
DIRECTORY...F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\Signal Plans North\
FILE.....15-3329 Signal Plans north.dwg
IMAGE.....ITSCALE....1
PLOTTED BY...BROWN
DATE.....Feb 15,2016 - 1:46pm

INTERSECTION NO. **24**

Signal Supports

- (24A) Relocate to 24G
- (24B) Relocated from 25D
- (24C) Relocated from 22B
- (24D) Relocate to 54A
- (24E) Remove & Dispose
- (24F) To Remain
- (24G) Relocated from 24A

For Foundation Details, See Sheet 176



LOOP TAGGING TABLE

LANE	TAG NUMBER
SL	SL1-1,2,3,4
NA	NA2-1,2,3,4
EL	EL4-1,2,3,4
EA	EA4-1,2,3,4
ER	ER4-1,2,3,4
NL	NL5-1,2,3,4
SA	SA6-1,2,3,4
SR	SR6-1,2,3,4
WA	WA8-1,2,3,4
WL	WL8-1,2,3,4

PHASE DIAGRAM

ALL APPROACHES FLASH RED

Legend

Existing	Proposed	
○	●	Strain Pole and Foundation
○	⊠	Mast Arm, Upright and Foundation
- - - -	— —	2" HDPE Conduit Schedule 80 (1)
⌐I	⌐I	18" Countdown Pedestrian Indication
⌐IP	⌐IP	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
□	■	Single Meter Service Pedestal on Base
◪	◪	Dual Meter Service Pedestal on Base
⟋	⟋	Span Mounted Junction Box
TR or FO	☢	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
□ LD	■ LD	Detector Housing
	⇩	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 purposes 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. 4" 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 Jeromy 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: Revised Legend
2/12/2016	REV 3: Revised Service Pedestal

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL
MAIN STREET & WESTERN AVENUE

CHRISTOPHER R. HUBERICHANT REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. N/A

DRAWN BY JRG

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	150	246

COMM. NO. 01-071-014

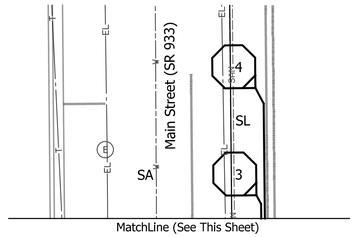
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

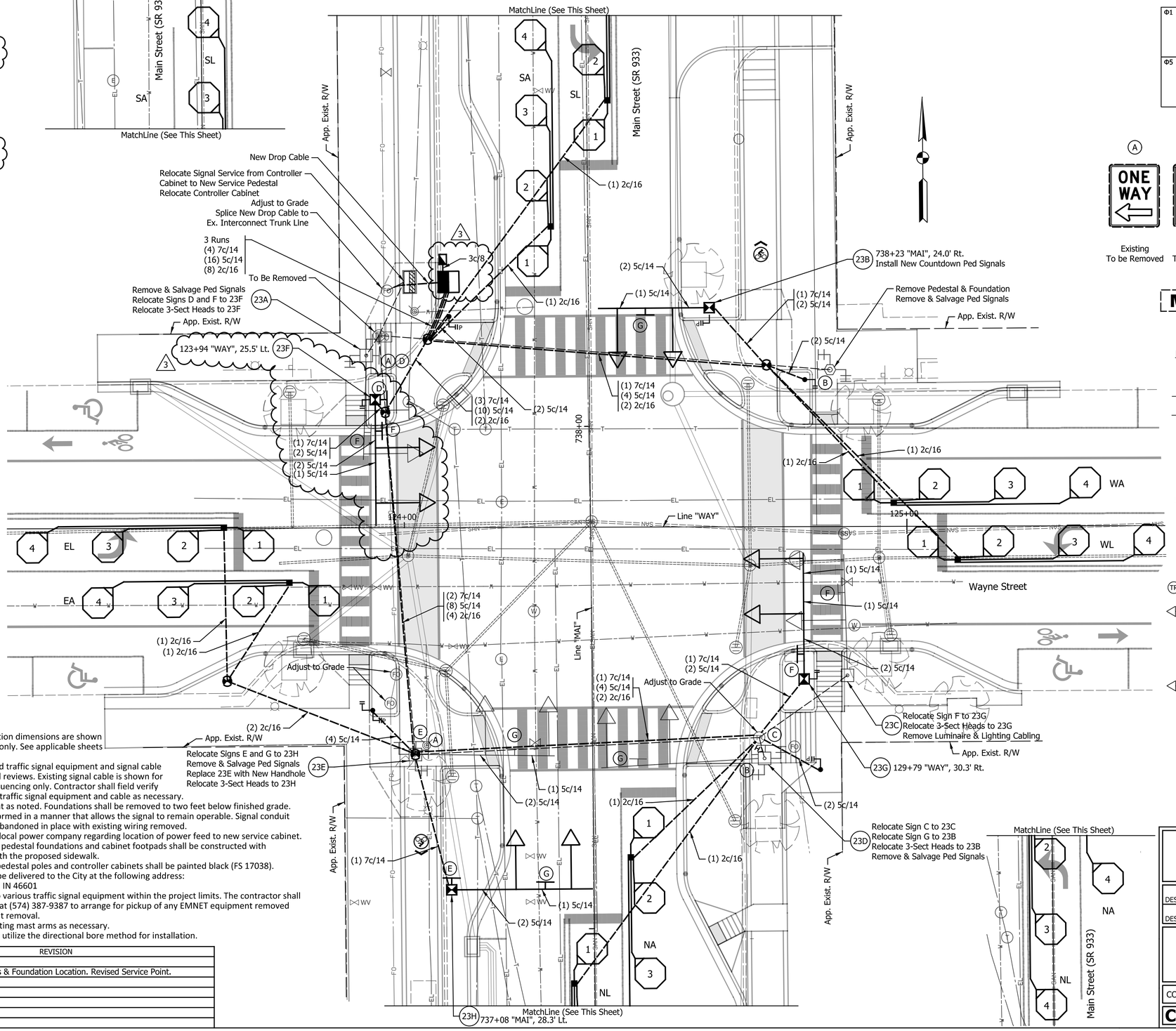
INTERSECTION NO. **23**

Signal Supports

- 23A Relocate to 21G
- 3 23B 25ft Arm Relocated From Michgian & Marion (NE Quadrant)
- 23C Relocate to 23G
- 23D Remove & Dispose
- 23E Relocate to 23H
- 3 23F 25ft Arm Relocated From Michgian & Marion (SW Quadrant)
- 23G Relocated from 23C
- 23H Relocated from 23E

For Foundation Details, See Sheet 176





LOOP TAGGING TABLE

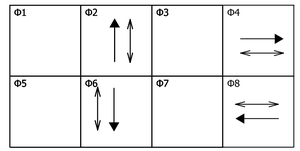
LANE	TAG NUMBER
NA	NA2-1,2,3,4
NL	NL2-1,2,3,4
EL	EL4-1,2,3,4
EA	EA4-1,2,3,4
SA	SA6-1,2,3,4
SL	SL6-1,2,3,4
WA	WA8-1,2,3,4
WL	WL8-1,2,3,4

General Notes:

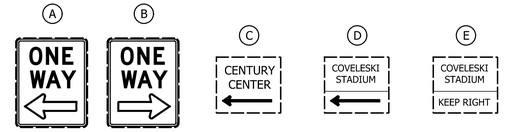
1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
2. Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purposes 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 cabinet.
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 Jeromy 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: Revised Legend
2/12/2016	REV 3: Revised Mast Arms & Foundation Location. Revised Service Point.

PHASE DIAGRAM



ALL APPROACHES FLASH RED



Legend

Existing	Proposed	
	●	Strain Pole and Foundation
	●	Mast Arm, Upright and Foundation
		2" HDPE Conduit Schedule 80 (1)
		18" Countdown Pedestrian Indication
	P	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
		Dual Meter Service Pedestal on Base (3)
		Span Mounted Junction Box
TR or FO		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
LD	LD	Detector Housing
		Conduit Intercept
		Detection Zone
		Detection Camera

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL
MAIN STREET & WAYNE STREET

CHRISTOPHER R. HUSSMAN REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. N/A

DRAWN BY JRG

SCALE: 1" = 10'		
YEAR	SHEET	TOTAL
2016	151	246

COMM. NO. 01-071-142

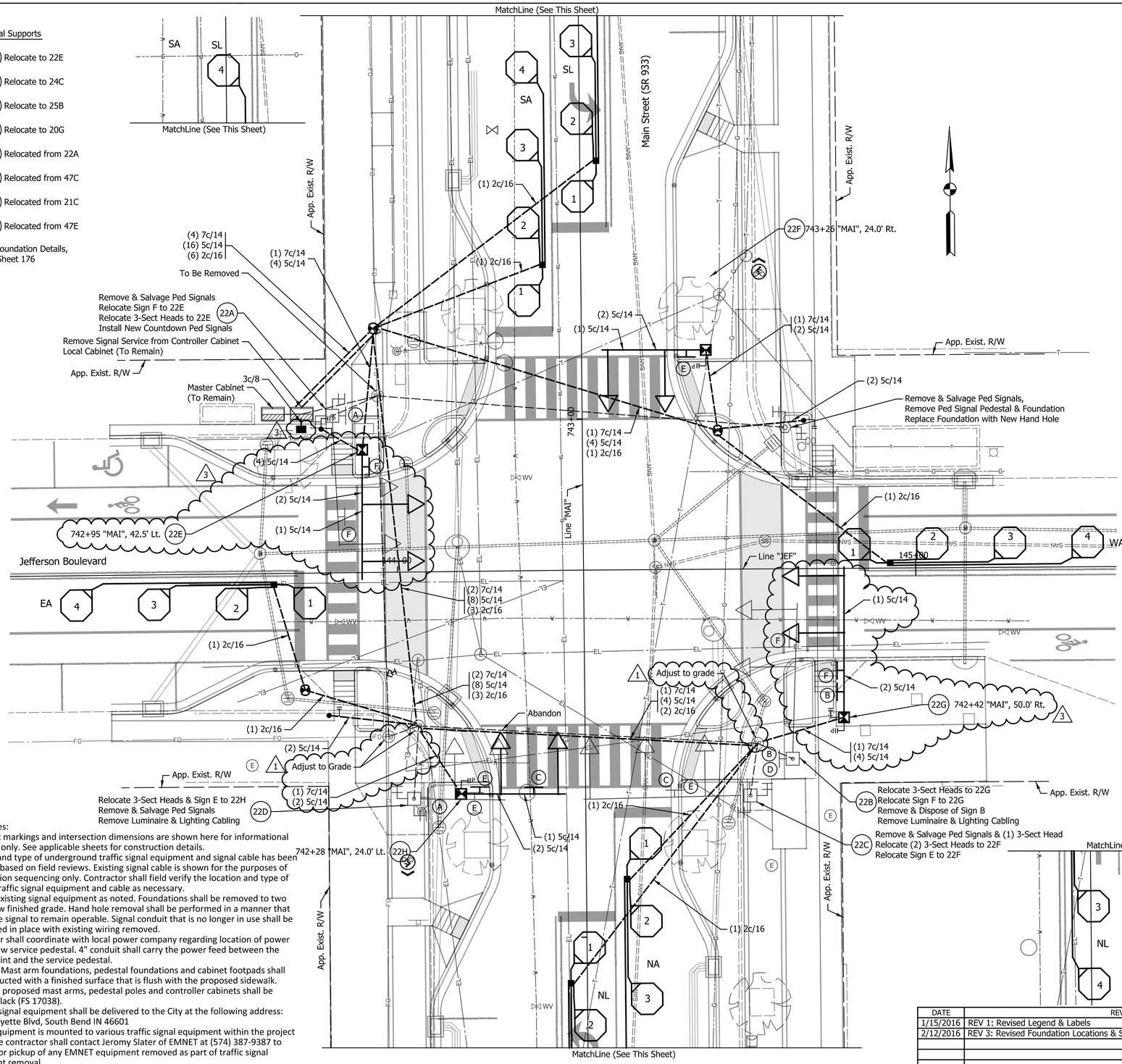
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

INTERSECTION NO. **22**

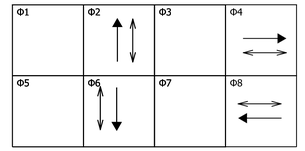
Signal Supports

- (22A) Relocate to 22E
- (22B) Relocate to 24C
- (22C) Relocate to 25B
- (22D) Relocate to 20G
- (22E) Relocated from 22A
- (22F) Relocated from 47C
- (22G) Relocated from 21C
- (22H) Relocated from 47E

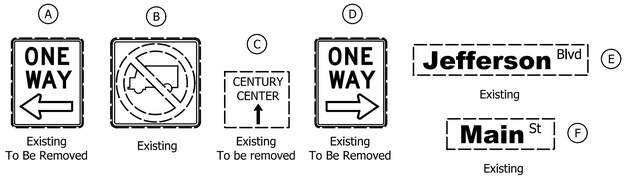
For Foundation Details, See Sheet 176



PHASE DIAGRAM



ALL APPROACHES FLASH RED



Legend

Existing	Proposed	
○	●	Strain Pole and Foundation
○	●	Mast Arm, Upright and Foundation
- - -	— —	2" HDPE Conduit Schedule 80 (1)
⌐I	⌐I	18" Countdown Pedestrian Indication
⌐IP	⌐IP	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
▭	▬	Single Meter Service Pedestal on Base (3)
◢	◢	Span Mounted Junction Box
(TR or FO)	◉	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
□ LD	■ LD	Detector Housing
⇩	⇩	Conduit Intercept
▨	▨	Detection Zone
▭	▬	Detection Camera

LOOP TAGGING TABLE

LANE	TAG NUMBER
NA	NA2-1,2,3,4
NL	NL2-1,2,3,4
EA	EA4-1,2,3,4
SA	SA6-1,2,3,4
SL	SL6-1,2,3,4
WA	WA8-1,2,3,4

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 purposes 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. 4" 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 Jeromy 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: Revised Legend & Labels
2/12/2016	REV 3: Revised Foundation Locations & Service Pedestal

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

CHRISTOPHER R. HUECKMANN REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL MAIN STREET & JEFFERSON BLVD.

CONTRACT NO. N/A

DRAWN BY JRG

SCALE:	1" = 10'	
YEAR	SHEET	TOTAL
2016	152	246

COMM. NO. 01-071-143

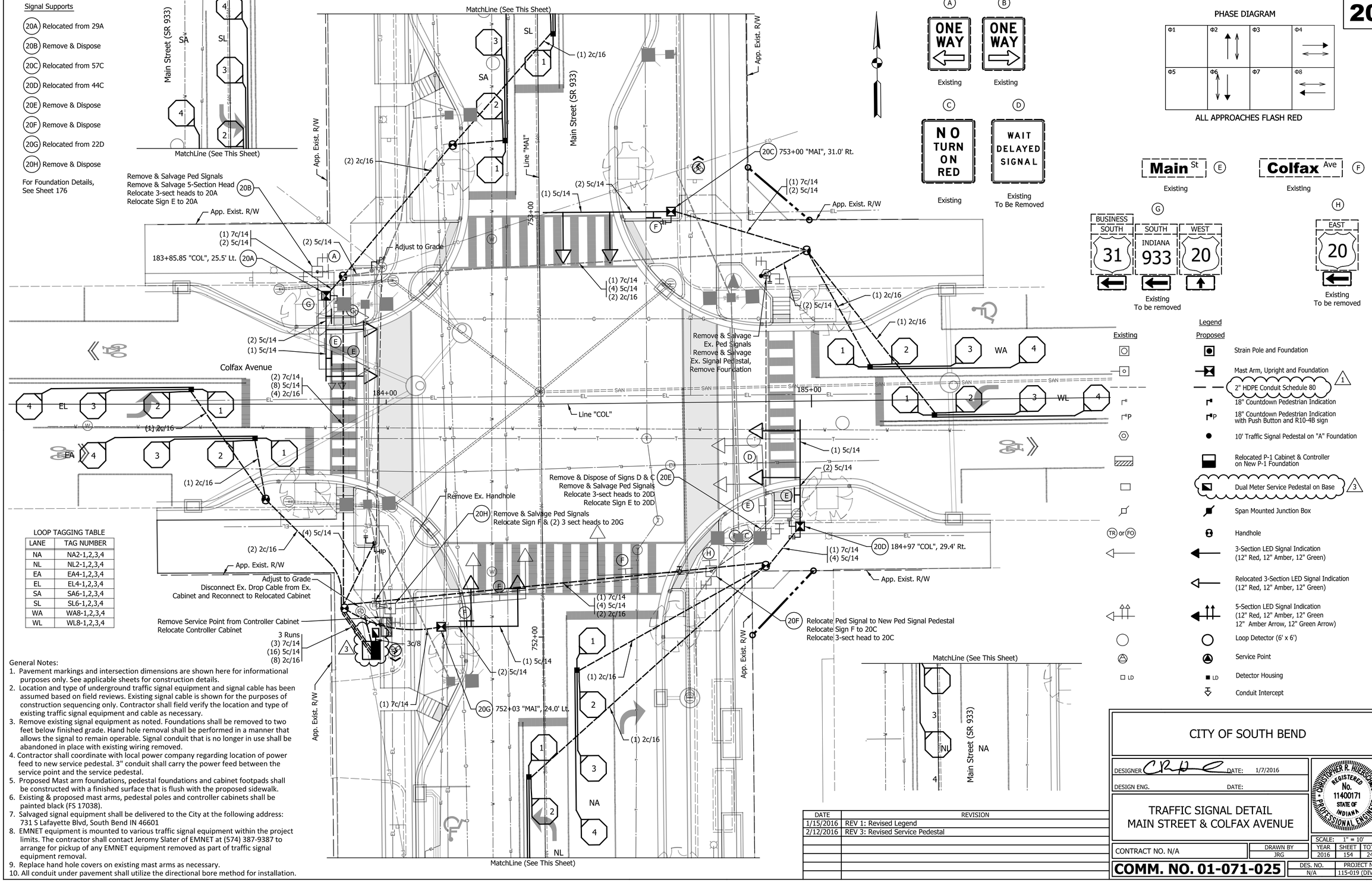
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

INTERSECTION NO. **20**

Signal Supports

- 20A Relocated from 29A
- 20B Remove & Dispose
- 20C Relocated from 57C
- 20D Relocated from 44C
- 20E Remove & Dispose
- 20F Remove & Dispose
- 20G Relocated from 22D
- 20H Remove & Dispose

For Foundation Details, See Sheet 176



LOOP TAGGING TABLE

LANE	TAG NUMBER
NA	NA2-1,2,3,4
NL	NL2-1,2,3,4
EA	EA4-1,2,3,4
EL	EL4-1,2,3,4
SA	SA6-1,2,3,4
SL	SL6-1,2,3,4
WA	WA8-1,2,3,4
WL	WL8-1,2,3,4

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 purposes 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 Jeromy 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.

Legend

Existing	Proposed	
○	●	Strain Pole and Foundation
○	⊠	Mast Arm, Upright and Foundation
		2" HDPE Conduit Schedule 80 (1)
⌐	⌐	18" Countdown Pedestrian Indication
⌐P	⌐P	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
□		Dual Meter Service Pedestal on Base (3)
⌐	◥	Span Mounted Junction Box
TR or FO	⊠	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
□ LD	■ LD	Detector Housing
	⇩	Conduit Intercept

DATE	REVISION
1/15/2016	REV 1: Revised Legend
2/12/2016	REV 3: Revised Service Pedestal

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL
MAIN STREET & COLFAX AVENUE

CHRISTOPHER R. HIVERNAUGH – REGISTERED No. 11400171 STATE OF INDIANA – PROFESSIONAL ENGINEER

CONTRACT NO. N/A

DRAWN BY: JRG

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	154	246

COMM. NO. 01-071-025

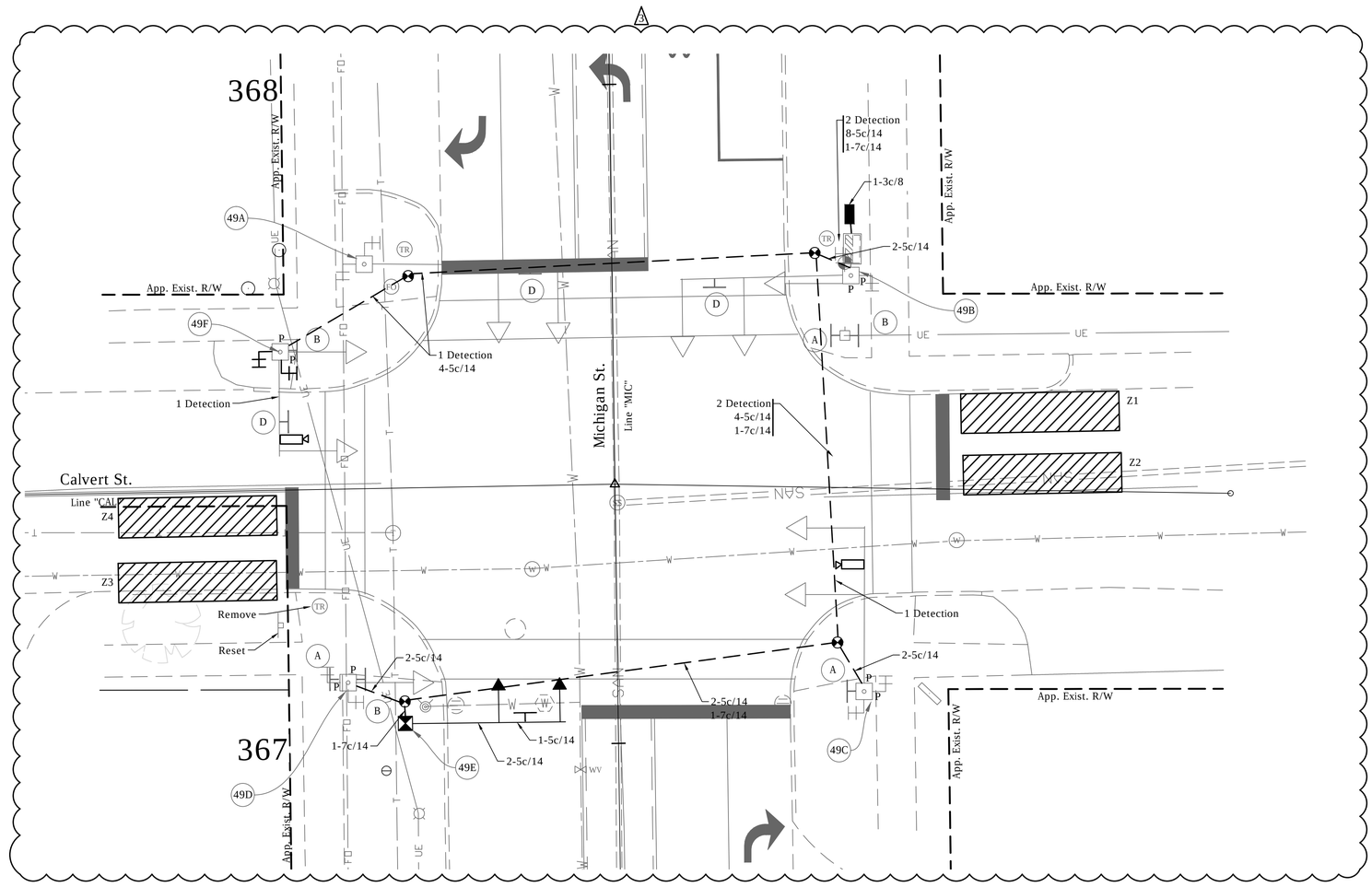
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

INTERSECTION NO. 49

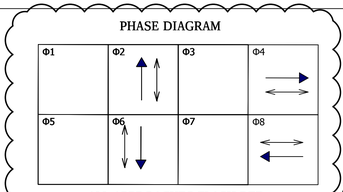
Signal Supports

- 49A Remove and Salvage. Relocate Ped Signals to
- 49B To Remove
- 49C To Remove
- 49D To Remove
- 49E New 25ft Mast Arm Pole & Foundation
- 49F To Remove

For Foundation Details, See Sheet 176



PHASE DIAGRAM



ALL APPROACHES FLASH RED

(A) ONE WAY — Existing To be Removed

(B) ONE WAY — Existing To be Removed

Michigan St (C) — Existing

Calvert St (D) — Existing

Legend

Existing	Proposed	
		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
	P	Pedestrian Push Button W/ R10-4B Sign
		Detection Camera
		Detection Zones

Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	8	5 Sec.
Z3	4	5 Sec.
Z4	4	5 Sec.

Detection Notes:
(1) All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
(2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

DATE	REVISION
1/15/2016	Rev 1: Revise Gen. Notes
2/12/2016	Rev 3: Add New Signal

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 Jeromy 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.
11. A 90 Day Flashing Period is Required Prior to Removal of This Traffic Signal. Flashing Operation Shall be Yellow for all North-South Movements and Red for all East-West Movements. Install SIGNAL UNDER STUDY FOR REMOVAL Sign on all Approaches Prior to Beginning 90 day Flashing Period. Remove Said Signs with Removal of Traffic Signal.

CITY OF SOUTH BEND

DESIGNER — DATE:
DESIGN ENG. — DATE: 01/07/2016

HARRY C. FOX III — REGISTERED — No. PE19400116 — STATE OF INDIANA — PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL
MICHIGAN ST & CALVERT ST

SCALE: 1" = 10'

CONTRACT NO. N/A	DRAWN BY BRD	YEAR	SHEET	TOTAL
		2016	157	246

COMM. NO. N/A	DES. NO.	PROJECT NO.
	N/A	115-019 (DIV B)

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FILE.....15-3329 Signal Plans north.dwg
DIMSTYLE.....TSCALE....1
PLOTTED BY..BDuncan
DATE.....Feb 15,2016 - 1:47pm

INTERSECTION NO.
47

Signal Supports

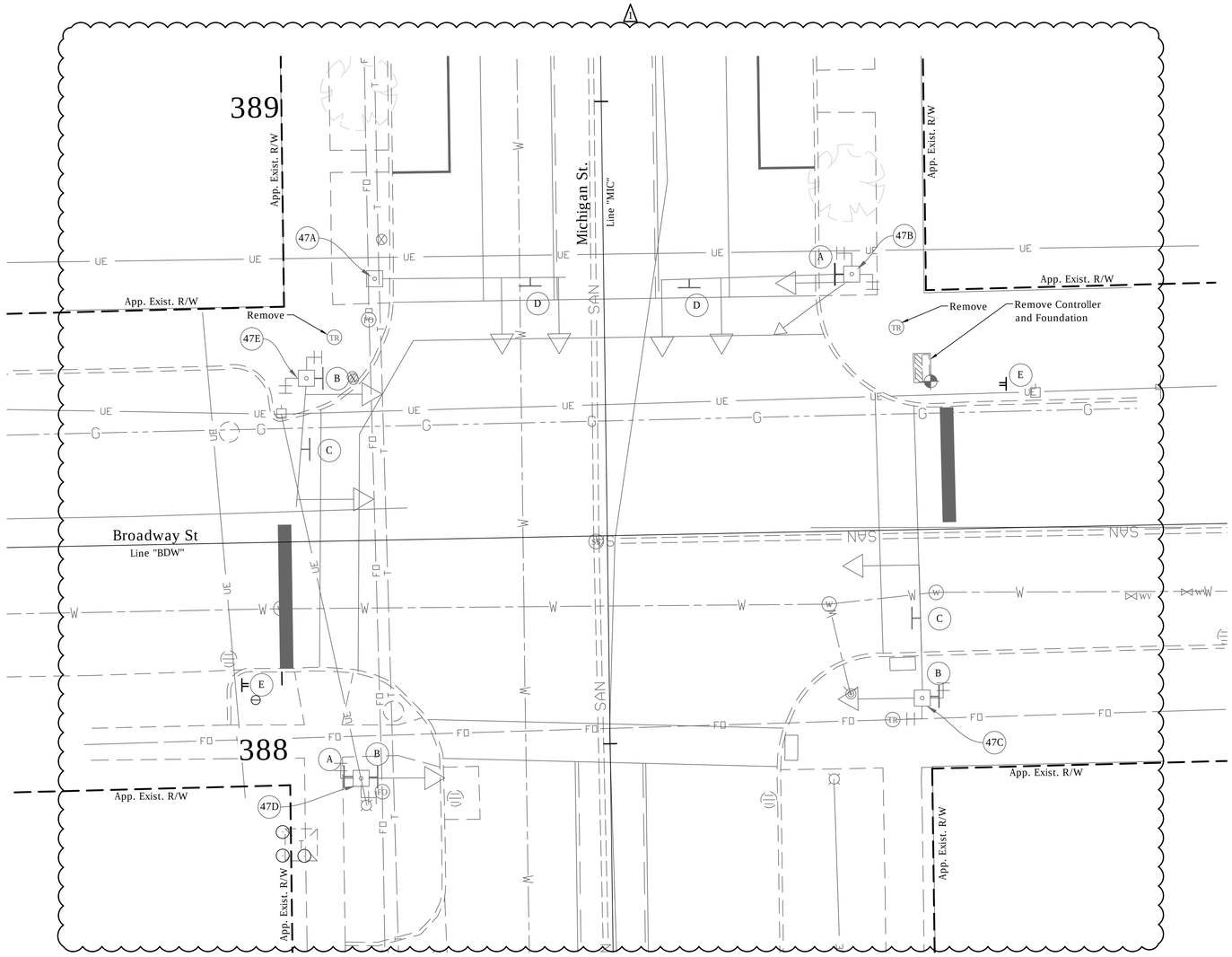
47A To Remain in Place, Remove Mast Arm.

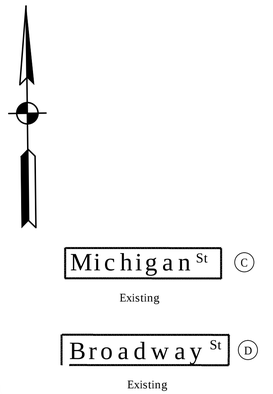
47B Remove and Relocate to 55A

47C Remove and Relocate to 22F

47D Remove and Dispose

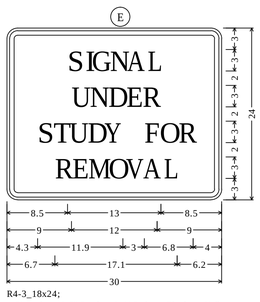
47E Remove and Relocate to 22H





Legend

Existing	Proposed	
		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
TR or FO		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



R4-3_18x24;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[SIGNAL] D 2K 75} spacing;
[UNDER] D 2K 75} spacing;
[STUDY FOR] D 2K 75} spacing;
[REMOVAL] D 2K 75} spacing;

DATE	REVISION
1/15/2016	Rev 1: Revise Gen. Notes and Sign Call Outs
2/12/2016	Rev 3: Add General Note 12

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 Jeromy 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.
11. A 90 Day Flashing Period is Required Prior to Removal of This Traffic Signal. Flashing Operation Shall be Yellow for all North-South Movements and Red for all East-West Movements. Install SIGNAL UNDER STUDY FOR REMOVAL Sign on all Approaches Prior to Beginning 90 day Flashing Period. Remove Said Signs with Removal of Traffic Signal.
12. 90 Day Flashing period shall not begin until the emergency vehicle hybrid beacon (located 350ft north) is fully operational.

CITY OF SOUTH BEND

DESIGNER DATE:

DESIGN ENG. DATE: 01/07/2016

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL
MICHIGAN ST & BROADWAY ST

CONTRACT NO. N/A

DRAWN BY BRD

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	159	246

COMM. NO. N/A

DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

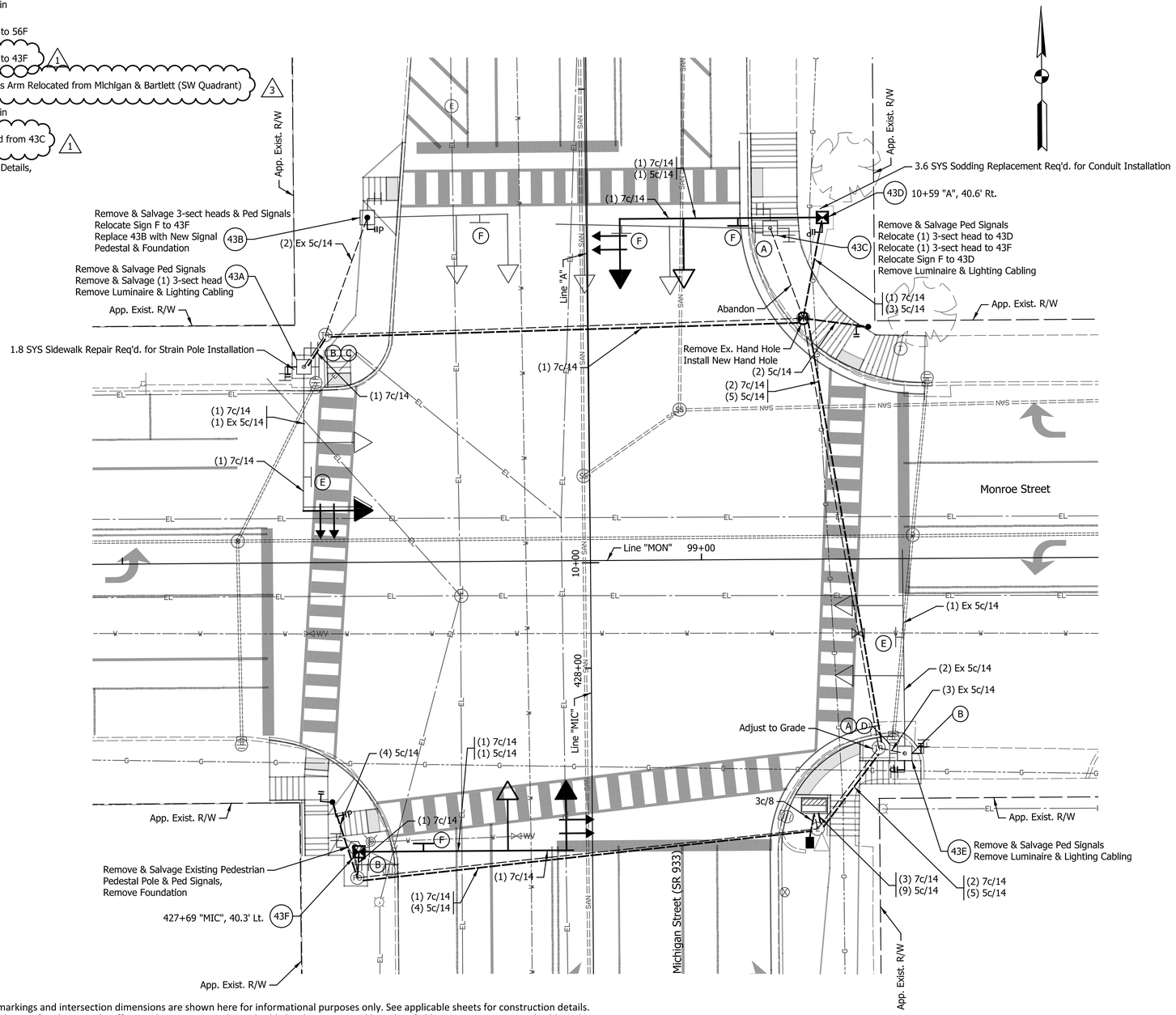
DIRECTORY.....F:\2015\15--3329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\Signal Plans North\
FILE.....15--3329 Signal Plans north.dwg
DIVISION.....ISCALE...1
PLOTTED BY.....Brian Rumschlag
DATE.....Feb 15,2016 - 1:48pm

INTERSECTION NO. **43**

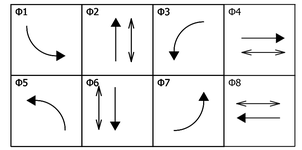
Signal Supports

- 43A To Remain
- 43B Relocate to 56F
- 43C Relocate to 43F (1)
- 43D 35ft Truss Arm Relocated from Michigan & Bartlett (SW Quadrant) (3)
- 43E To Remain
- 43F Relocated from 43C (1)

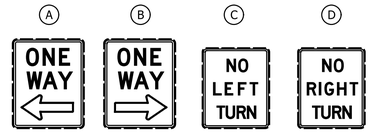
For Foundation Details, See Sheet 176



PHASE DIAGRAM



ALL APPROACHES FLASH RED



Existing To be Removed | Existing To be Removed | Existing To be Removed | Existing To be Removed

Michigan St (E) Existing

Monroe St (F) Existing

Legend

Existing	Proposed	
		Strain Pole and Foundation
		Mast Arm, Upright and Foundation
		2" HDPE Conduit Schedule 80 (1)
I		18" Countdown Pedestrian Indication
IP		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
		Single Meter Service Pedestal on Base
		Span Mounted Junction Box
TR or FO		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
LD	LD	Detector Housing
		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 purposes 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 Jeromy 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: Revised Legend & Labels
2/12/2016	REV 3: Mast Arm Label

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

CHRISTOPHER R. HIVERNAUGH - REGISTERED No. 11400171 STATE OF INDIANA - PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL
MICHIGAN STREET & MONROE STREET

SCALE: 1" = 10'

CONTRACT NO.	DRAWN BY	YEAR	SHEET	TOTAL
N/A	JRG	2016	164	246

COMM. NO. 01-071-054

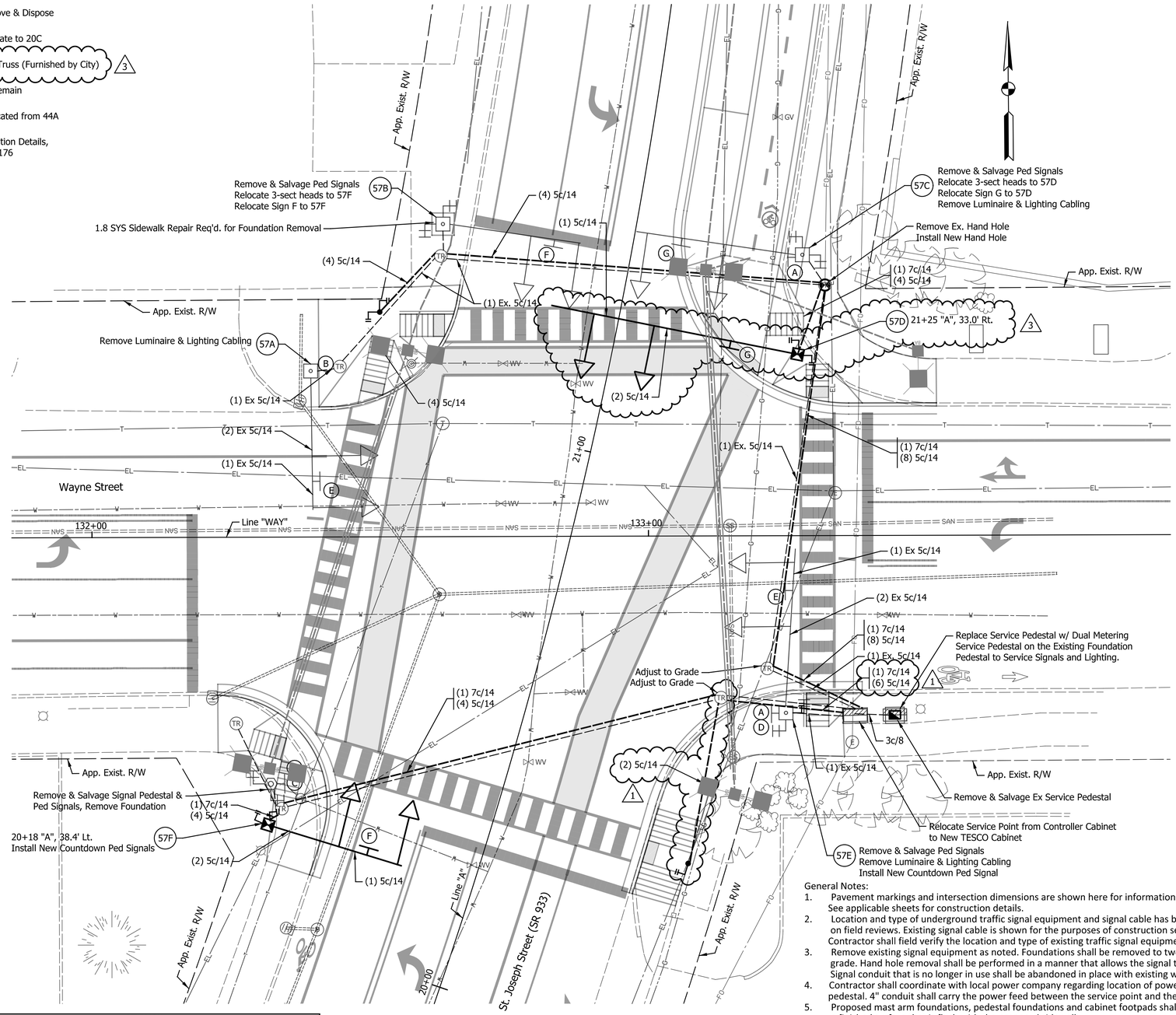
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

INTERSECTION NO. **57**

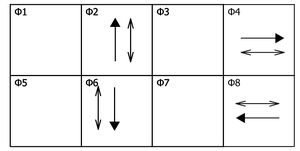
Signal Supports

- 57A To Remain
- 57B Remove & Dispose
- 57C Relocate to 20C
- 57D 40ft Truss (Furnished by City) △3
- 57E To Remain
- 57F Relocated from 44A

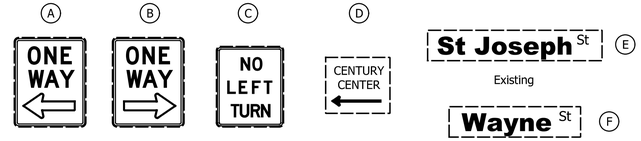
For Foundation Details, See Sheet 176



PHASE DIAGRAM



ALL APPROACHES FLASH RED



Legend

Existing	Proposed	
○	●	Strain Pole and Foundation
○	⊠	Mast Arm, Upright and Foundation
— — —	— — — △1	2" HDPE Conduit Schedule 80
⌐I	⌐I	18" Countdown Pedestrian Indication
⌐IP	⌐IP	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
▭	◥	Dual Meter Service Pedestal on Base
◿	◿	Span Mounted Junction Box
(TR) or (FO)	⊗	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
□ LD	■ LD	Detector Housing

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 purposes 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. 4" 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 Jeromy 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: Revised Legend & Pedestrian Signal Location.
2/12/2016	REV 3: Revised Mast Arm Callout & Location

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL
ST. JOSEPH STREET &
WAYNE STREET

CHRISTOPHER R. HUBERSMAN REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	166	246

CONTRACT NO. N/A

DRAWN BY JRG

COMM. NO. 01-071-128

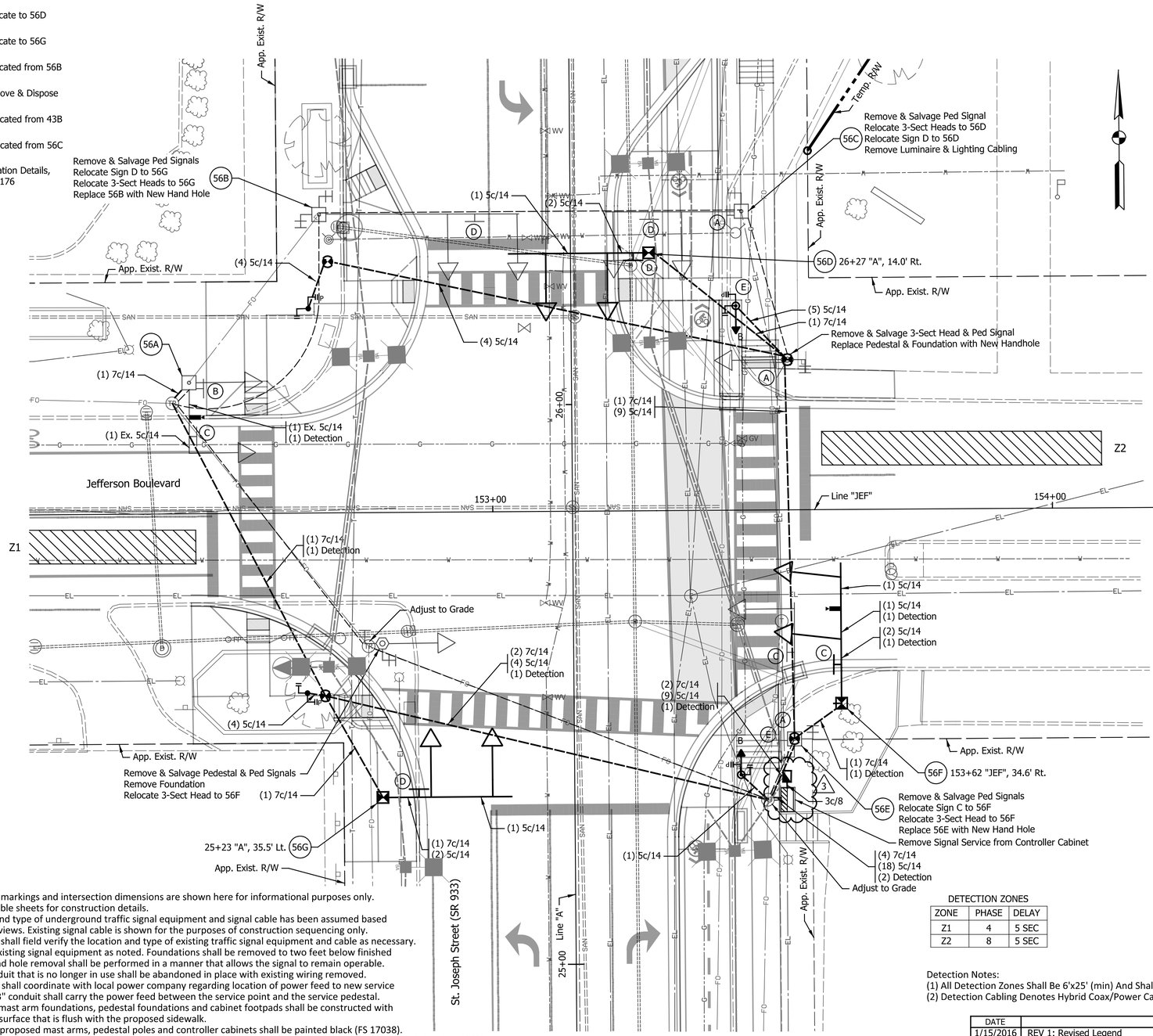
DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

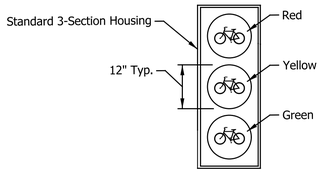
INTERSECTION NO. **56**

Signal Supports

- 56A To Remain
- 56B Relocate to 56D
- 56C Relocate to 56G
- 56D Relocated from 56B
- 56E Remove & Dispose
- 56F Relocated from 43B
- 56G Relocated from 56C

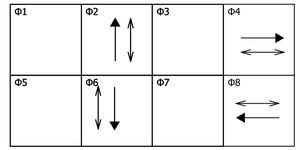
For Foundation Details, See Sheet 176





BIKE SIGNAL DETAIL

PHASE DIAGRAM



ALL APPROACHES FLASH RED

Legend

Existing	Proposed
	Strain Pole and Foundation
	Mast Arm, Upright and Foundation
	2" HDPE Conduit Schedule 80 (1)
	18" Countdown Pedestrian Indication
P	18" Countdown Pedestrian Indication with Push Button and R10-4B sign
	10' Traffic Signal Pedestal on "A" Foundation
	15' Traffic Signal Pedestal on "A" Foundation
	Relocated P-1 Cabinet & Controller on New P-1 Foundation
	Dual Meter Service Pedestal on Base (3)
	Span Mounted Junction Box
TR or FO	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)
	Detection Zone
	Service Point
LD	Detector Housing
	Detection Camera
B	3-Section LED Bike Signal Indication (See Detail)

DETECTION ZONES

ZONE	PHASE	DELAY
Z1	4	5 SEC
Z2	8	5 SEC

Detection Notes:
(1) All Detection Zones Shall Be 6'x25' (min) And Shall Provide Presence Detection.
(2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Cameras to in Cabinet Equipment.

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 purposes 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 Jeromy 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: Revised Legend
2/12/2016	REV 3: Revised Service Pedestal

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL
ST. JOSEPH STREET &
JEFFERSON BLVD.

CHRISTOPHER R. HUBECKMAN REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

SCALE: 1" = 10'

CONTRACT NO. N/A

DRAWN BY	YEAR	SHEET	TOTAL
JRG	2016	167	246

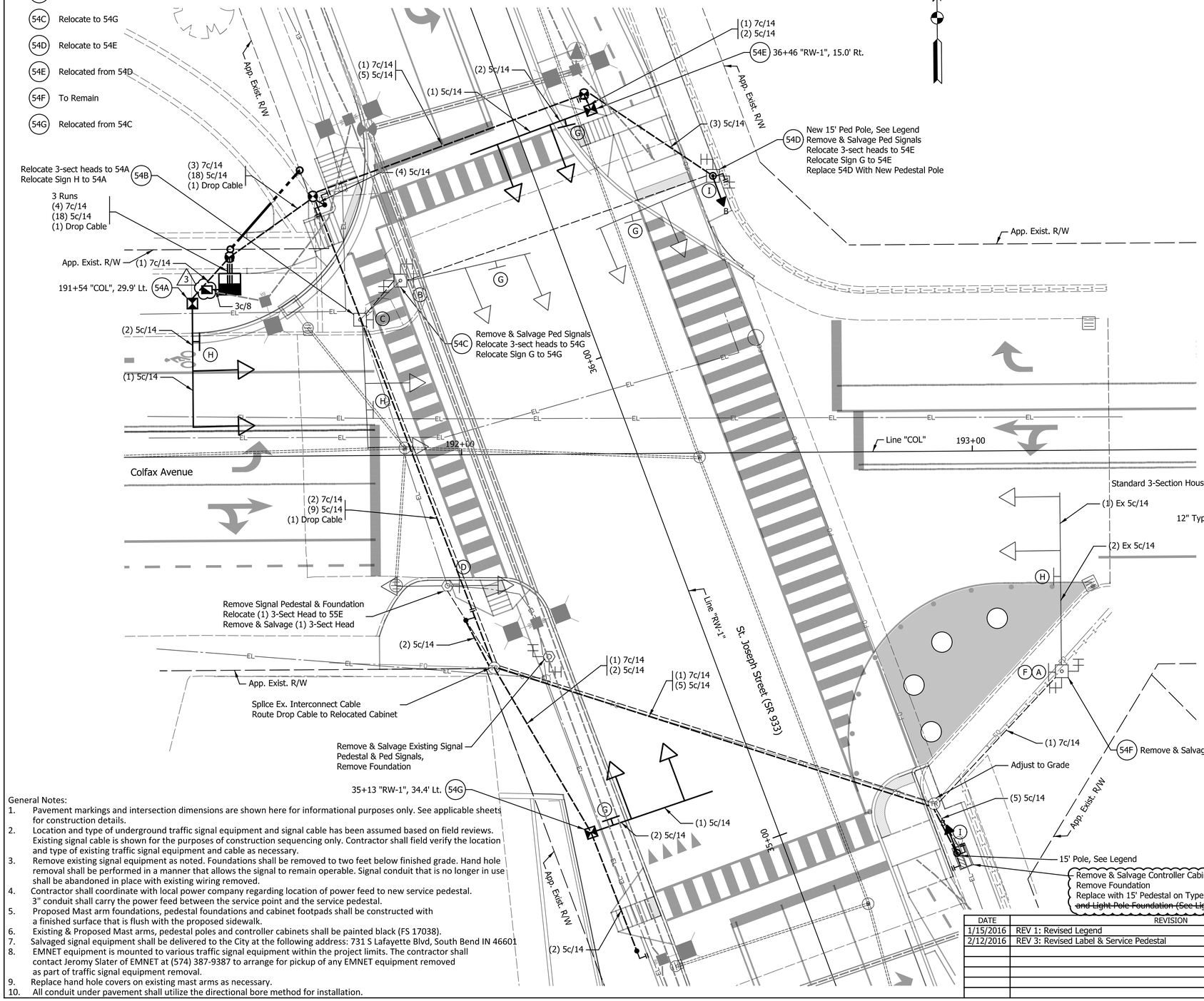
COMM. NO. 01-071-129

DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

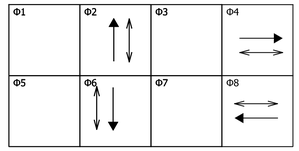
INTERSECTION NO. **54**

SIGNAL SUPPORTS

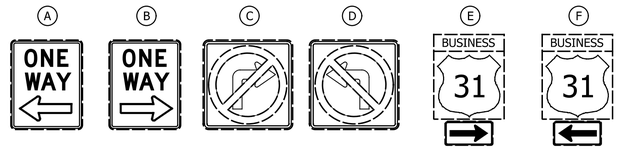
- 54A Relocated from 24D
- 54B Remove & Dispose
- 54C Relocate to 54G
- 54D Relocate to 54E
- 54E Relocated from 54D
- 54F To Remain
- 54G Relocated from 54C



PHASE DIAGRAM

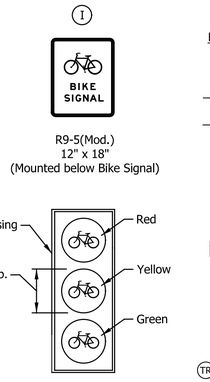


ALL APPROACHES FLASH RED



Colfax Ave (G) — Existing

St Joseph St (H) — Existing



Legend

Existing	Proposed	
		Strain Pole and Foundation
		Mast Arm, Upright and Foundation
		2" HDPE Conduit Schedule 80 (1)
		18" Countdown Pedestrian Indication
		18" Countdown Pedestrian Indication with Push Button and R10-4B sign
		10' Traffic Signal Pedestal on "A" Foundation
		15' Traffic Signal Pedestal on "A" Foundation
		Relocated P-1 Cabinet & Controller on New P-1 Foundation
		Dual Meter Service Pedestal on Base (3)
		Span Mounted Junction Box
TR or FO		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
LD	LD	Detector Housing
	B	Conduit Intercept 3-Section LED Bike Signal Indication (See Detail)

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 purposes 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 Jeromy 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: Revised Legend
2/12/2016	REV 3: Revised Label & Service Pedestal

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

CHRISTOPHER R. HUECKMANN REGISTERED No. 11400171 STATE OF INDIANA PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL
ST. JOSEPH STREET & COLFAX AVENUE

SCALE: 1" = 10'

CONTRACT NO. N/A

DRAWN BY	YEAR	SHEET	TOTAL
JRG	2016	169	246

COMM. NO. 01-071-131

DES. NO.	PROJECT NO.
N/A	115-019 (DIV B)

INTERSECTION NO. **38**

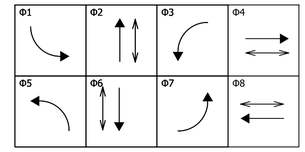
Signal Supports

- 38A Relocate to 38F
- 38B 35ft Arm Relcoated From Michigan & Bartlett (NW Quadrant)
- 38C Relocate to 38E
- 38D Relocate to 55E
- 38E Relocated from 38C
- 38F Relocated from 38A
- 38G 25ft Arm Relcoated From Main & Marion (SW Quadrant)

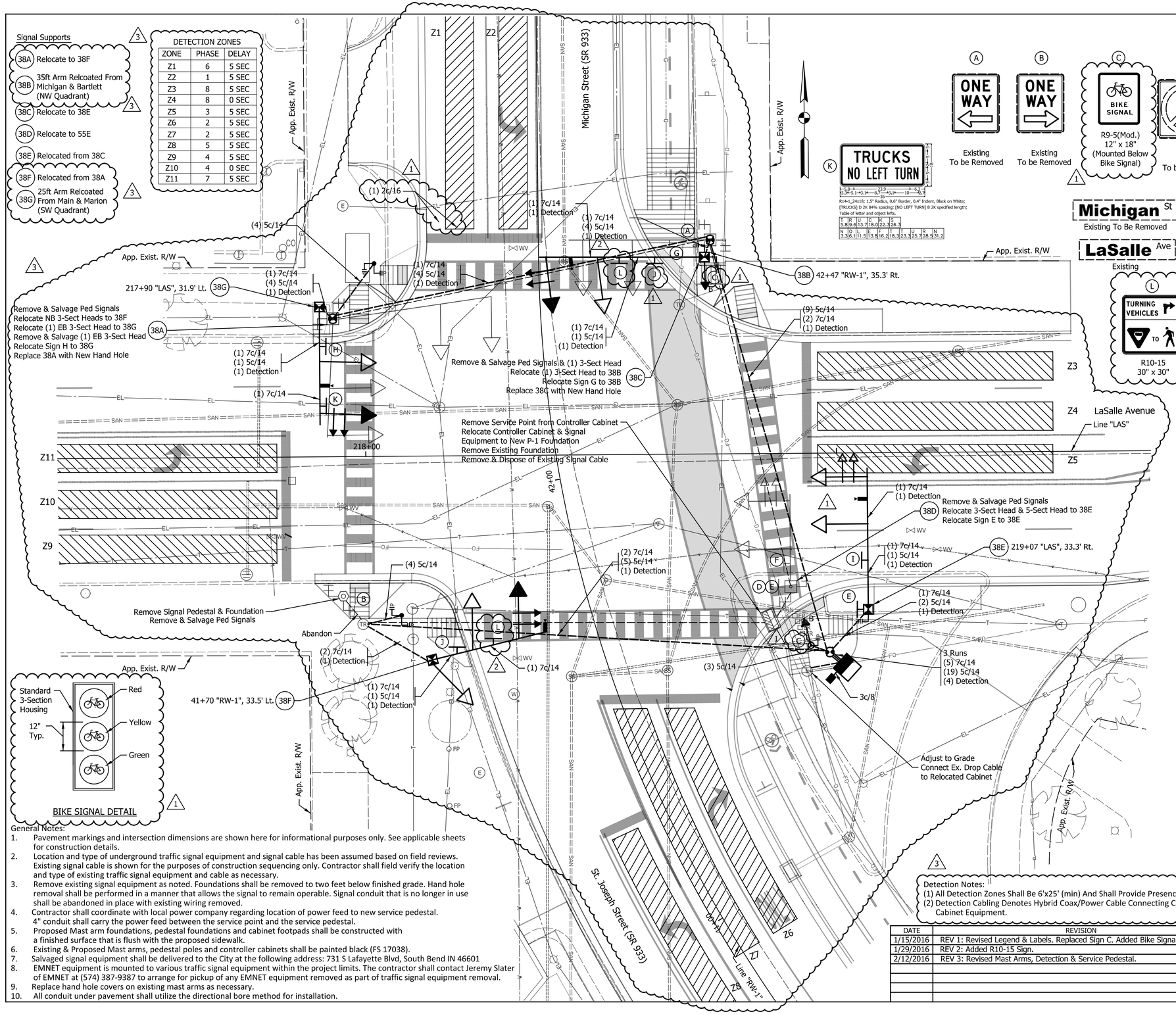
DETECTION ZONES

ZONE	PHASE	DELAY
Z1	6	5 SEC
Z2	1	5 SEC
Z3	8	5 SEC
Z4	8	0 SEC
Z5	3	5 SEC
Z6	2	5 SEC
Z7	2	5 SEC
Z8	5	5 SEC
Z9	4	5 SEC
Z10	4	0 SEC
Z11	7	5 SEC

PHASE DIAGRAM



ALL APPROACHES FLASH RED



A — ONE WAY — Existing To be Removed

B — ONE WAY — Existing To be Removed

C — BIKE SIGNAL — R9-5(Mod.) 12" x 18" (Mounted Below Bike Signal)

D — Existing To be Removed

E — H — Existing To Remain in Place

K — TRUCKS NO LEFT TURN

R14-1_24x18; 1.5" Radius, 0.6" Border, 0.4" Indent, Black on White; [TRUCKS] D 2K 84% spacing; [NO LEFT TURN] B 2K spacified length; Table of letter and object lefts.

T	R	U	C	K	IE
5.8	9.6	13.7	18.0	22.3	26.3
N	O	I	E	F	T	T	U	R	N
3.3	5.1	7.1	9.5	13.8	16.2	18.3	23.3	25.7	28.5	31.2

F — Michigan St — Existing To Be Removed

G — LaSalle Ave — Existing

L — TURNING VEHICLES — TO — R10-15 30" x 30"

J — LaSalle Ave — See Details on Intersection No. 19

H — ⇦ St Joseph St / Michigan St ⇨

2.3" Radius, 1.0" Border, White on Green; Standard Arrow Custom 12.0" X 8.0" 180%; [St Joseph] D; [St] D; [Michigan] D; [St] D; Standard Arrow Custom 12.0" X 8.0" 0%; Table of letter and object lefts.

S	T	J	O	S	E	P	H
7.0	23.0	29.8	41.3	48.6	54.6	60.5	67.1	73.7
S	T
---	---
84.1	88.6
M	I	C	H	I	G	A	N	S	T
---	---	---	---	---	---	---	---	---	---
7.0	16.0	19.3	25.9	33.0	36.3	42.9	49.9	60.4	64.9

79.6

I — ⇦ Michigan St / St Joseph St ⇨

2.3" Radius, 1.0" Border, White on Green; Standard Arrow Custom 12.0" X 8.0" 180%; [Michigan] D; [St] D; [St Joseph] D; [St] D; Standard Arrow Custom 12.0" X 8.0" 0%; Table of letter and object lefts.

M	I	C	H	I	G	A	N	S	T
31.4	40.4	43.7	50.3	57.4	60.7	67.2	74.3
S	T
---	---
84.8	89.3
S	T	J	O	S	E	P	H	S	T
6.4	13.2	24.7	31.9	37.9	43.8	50.4	57.0	67.4	72.0

79.6

Legend

Existing	Proposed	
○	●	Strain Pole and Foundation
—o—	—✕—	Mast Arm, Upright and Foundation
- - - -	— —	2" HDPE Conduit Schedule 80 (1)
⌐ᴵ	⌐ᴵ	18" Countdown Pedestrian Indication
⌐ᴵP	⌐ᴵP	18" Countdown Pedestrian Indication with Push Button and R10-4B sign
⬡	●	10' Traffic Signal Pedestal on "A" Foundation
	◉	15' Traffic Signal Pedestal on "A" Foundation
▨	▬	Relocated P-1 Cabinet & Controller on New P-1 Foundation
▭	■	Single Meter Service Pedestal on Base (3)
⌐	⌐	Span Mounted Junction Box
TR or FO	⊗	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)
▨	▨	Detection Zone (3)
⚠	▲	Service Point
▭	▬	Detection Camera (3)
B ◁	B ◀	3-Section LED Bike Signal Indication (See Detail)

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 purposes 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. 4" 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.

(3) Detection Notes:
(1) All Detection Zones Shall Be 6'x25' (min) And Shall Provide Presence Detection.
(2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Cameras to in Cabinet Equipment.

DATE	REVISION
1/15/2016	REV 1: Revised Legend & Labels. Replaced Sign C. Added Bike Signal Detail.
1/29/2016	REV 2: Added R10-15 Sign.
2/12/2016	REV 3: Revised Mast Arms, Detection & Service Pedestal.

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

TRAFFIC SIGNAL DETAIL

St. JOSEPH STREET & LaSALLE AVENUE

CHRISTOPHER R. HIERSEMAN — REGISTERED No. 11400171 STATE OF INDIANA — PROFESSIONAL ENGINEER

SCALE: 1" = 10'

YEAR	SHEET	TOTAL
2016	170	246

CONTRACT NO. N/A

DRAWN BY JRG

DES. NO. N/A

PROJECT NO. 115-019 (DIV B)

COMM. NO. 01-071-058

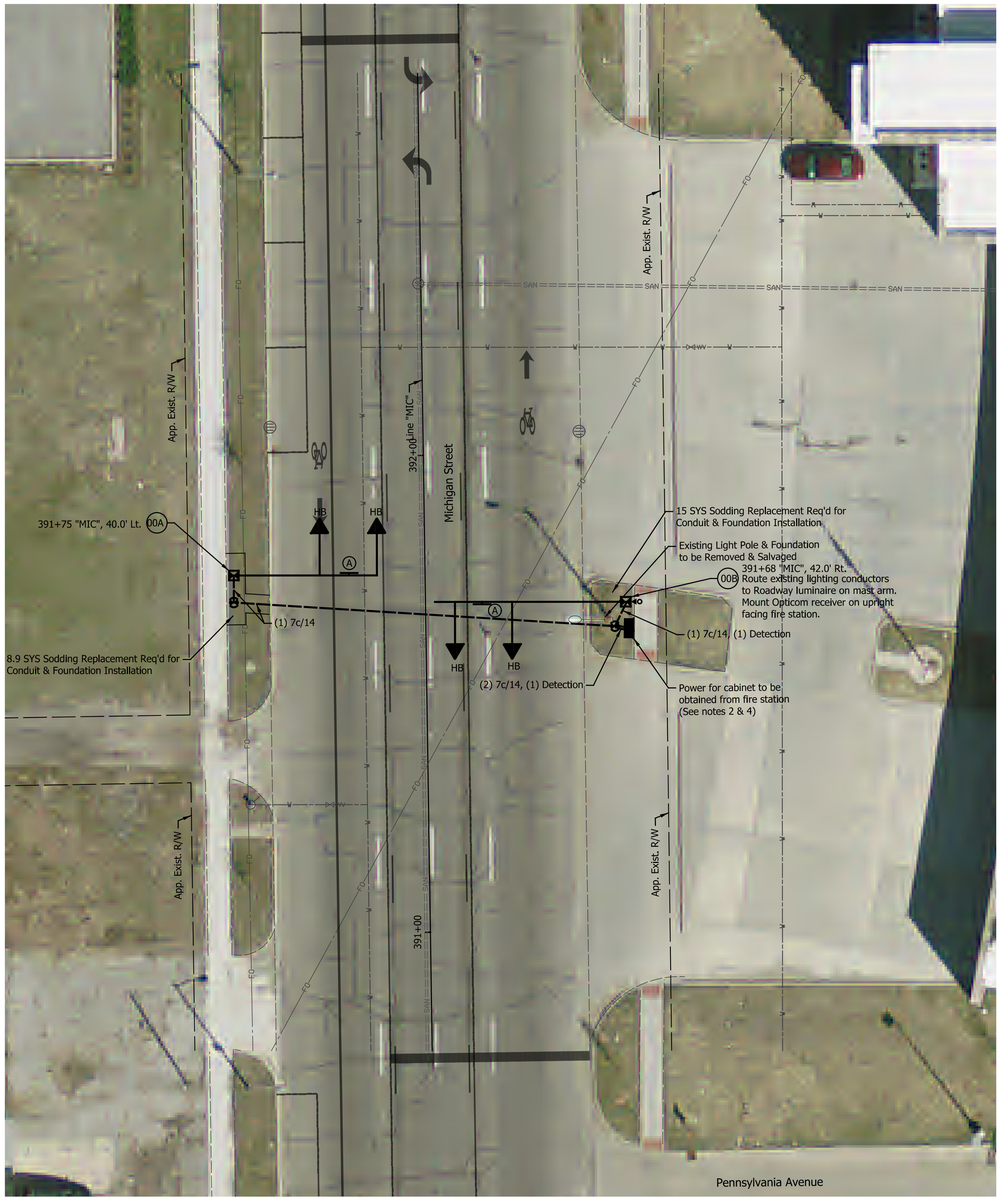
INTERSECTION NO. **00**

Signal Supports

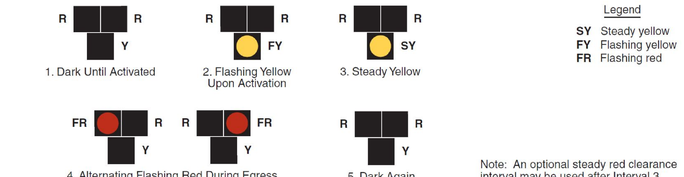
(00A) 30ft Truss Arm (Furnished by City)

(00B) 40ft Truss Arm w/ Roadway Luminaire (Furnished by City)

For Foundation Details,
See Sheet 176



Ⓐ
EMERGENCY SIGNAL
R10-13
42" x 30"



Legend
SY Steady yellow
FY Flashing yellow
FR Flashing red

Note: An optional steady red clearance interval may be used after Interval 3 and before Interval 4.

Emergency-Vehicle Hybrid Beacon

Legend

- Mast Arm, Upright and Foundation
- 2" HDPE Conduit Schedule 80
- P-1 Cabinet & Controller on New P-1 Foundation (Furnish by City)
- Handhole
- HB — Emergency-Vehicle Hybrid Beacon (See Detail)
- Service Point
- Opticom Receiver & Confirmation Light

General Notes:
1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
2. Power for this Emergency-Vehicle hybrid beacon shall be obtained from the fire station. The service point is assumed to be located in the Northeast quadrant of the fire station.
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 and the fire station regarding location of power feed to the controller cabinet. 3" conduit shall carry the power feed between the service point and the controller cabinet. Said conduit shall be directionally bored to the greatest extent possible.
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. Replace hand hole covers on existing mast arms as necessary.
8. All conduit under pavement shall utilize the directional bore method for installation.
9. Emergency-Vehicle hybrid beacon must be active prior to removal of the traffic signal at Michigan and Broadway.
10. Detection cable denotes cabling for preemption receiver and confirmation light.
11. Ensure preemption equipment is compatible with existing preemption equipment in use by fire department.

DATE	REVISION
2/12/2016	REV 3: Added Sheet

CITY OF SOUTH BEND

DESIGNER CRH DATE: 1/7/2016

DESIGN ENG. DATE:

CHRISTOPHER R. HUBERT — REGISTERED No. 11400171 STATE OF INDIANA — PROFESSIONAL ENGINEER

TRAFFIC SIGNAL DETAIL
MICHIGAN STREET & FIRE STATION

SCALE: 1" = 15'

CONTRACT NO.	DRAWN BY	YEAR	SHEET	TOTAL
N/A	JRG	2016	177-1	246

COMM. NO.	DES. NO.	PROJECT NO.
NA	N/A	115-019 (DIV B)

731 732 733 734 735 736 737 738

Western Avenue

Line "WES"

Line "WAY"

Wayne Street

App. Exist. R/W

Luminaire A1-1
732+08 "MAI", 31' LT.

Luminaire A1-2
732+51 "MAI", 35' LT.

Luminaire A1-3
733+26 "MAI", 49' LT.

Luminaire A1-4
733+68 "MAI", 31' LT.

Luminaire A1-5
734+35 "MAI", 31' LT.

Luminaire A1-6
735+17 "MAI", 31' LT.

Luminaire A1-7
736+09 "MAI", 30' LT.

Luminaire A1-8
736+92 "MAI", 28' LT.

Luminaire A1-9
737+48 "MAI", 41' LT.

Luminaire A1-10
738+08 "MAI", 42' LT.

Service Point "A", Type II
See Note 4

A-1 A-3

Line "MAI"

Main Street (SR 933)

Service Point "B", Type II

Luminaire B1-1
732+08 "MAI", 31' RT.

Luminaire B1-2
732+51 "MAI", 35' RT.

Luminaire B1-3
733+25 "MAI", 41' RT.

Luminaire B1-4
733+55 "MAI", 28' RT.

Luminaire B1-5
734+44 "MAI", 28' RT.

Luminaire B1-6
735+27 "MAI", 28' RT.

Luminaire B1-7
735+90 "MAI", 28' RT.

Luminaire B1-8
737+08 "MAI", 22' RT.

Luminaire B1-9
737+44 "MAI", 41' RT.

Luminaire B1-10
738+04 "MAI", 40' RT.

B-1 B-3

NOTES:

1. Contractor to field verify offsets to ensure center of foundation is at least 3' from face of curb.
2. Contractor to level luminaires in field.
3. Remove existing luminaires from existing poles. Remove any existing poles not carrying electrical service.
4. Service points to be in same cabinet as signal service points. See Special Provisions.
5. Each light pole to include 120V receptacles.
6. Do not place lighting conduit through tree grates.
7. Abandon all existing lighting cableduct and conduit.
8. All conduit under pavement shall utilize directional bore method for installation.

LEGEND

- Service Point, 120/240V
- Lighting Handhole (Type as Shown)
- Illuminated Bollard
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 PVC Conduit
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 HDPE Conduit Under Roadway
- A-1 Lighting Circuit Number
- Luminaire, Ornamental, 55W LED, 18' Mounting Height, Dual Arm Mount
- Luminaire, Ornamental, 90W LED, 18' Mounting Height, Post Top Mount

3 1

DATE	REVISION
1/15/2016	REV 1: Revised Legend Item
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON
REGISTERED
No. 11200692
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: AMJ DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

LIGHTING DETAILS
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	178 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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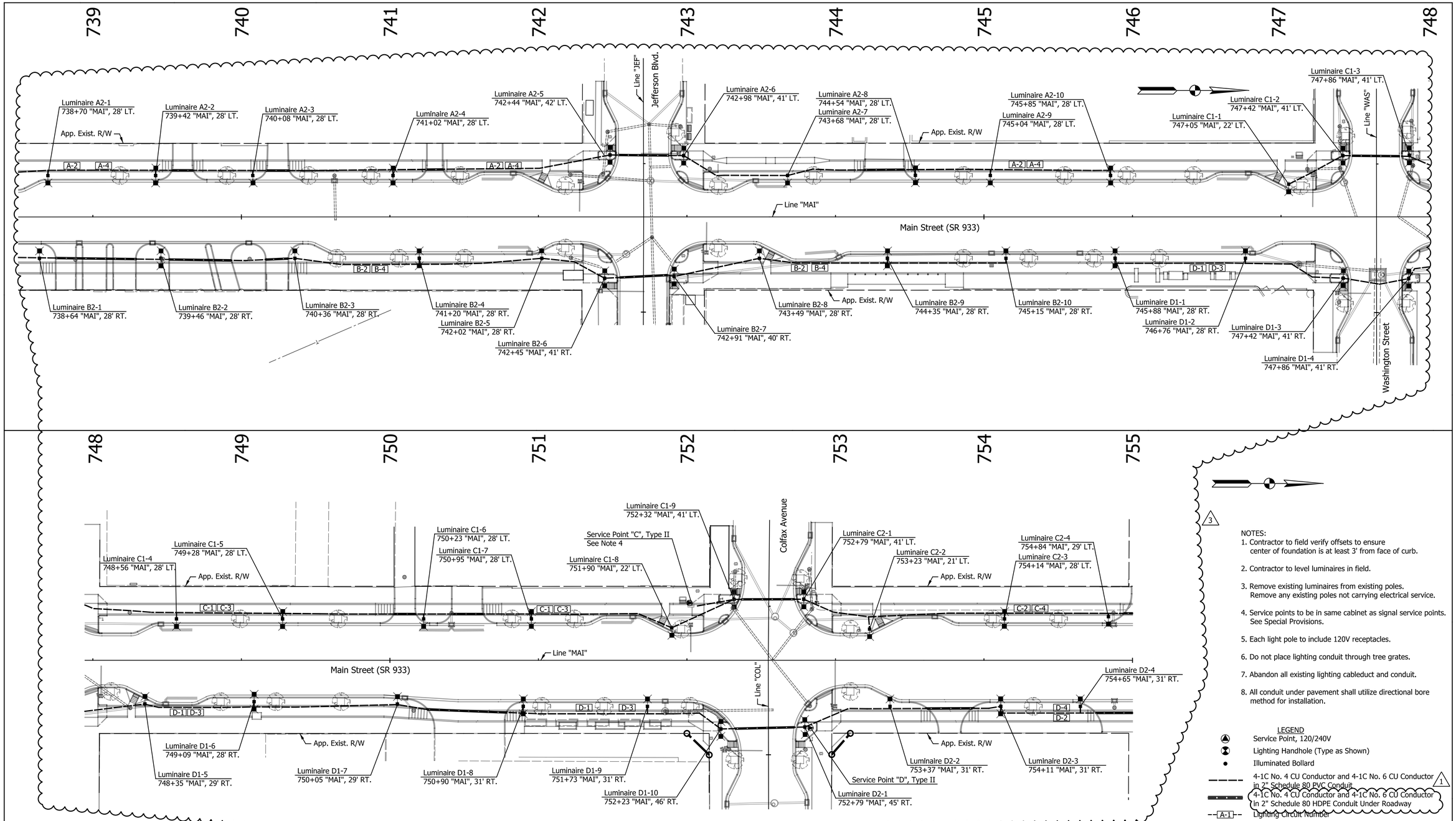

NOTES:
1. Contractor to field verify offsets to ensure center of foundation is at least 3' from face of curb.
2. Contractor to level luminaires in field.
3. Remove existing luminaires from existing poles. Remove any existing poles not carrying electrical service.
4. Service points to be in same cabinet as signal service points. See Special Provisions.
5. Each light pole to include 120V receptacles.
6. Do not place lighting conduit through tree grates.
7. Abandon all existing lighting cableduct and conduit.
8. All conduit under pavement shall utilize directional bore method for installation.

LEGEND

- Service Point, 120/240V
- Lighting Handhole (Type as Shown)
- Illuminated Bollard
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 PVC Conduit
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 HDPE Conduit Under Roadway
- A-1 Lighting Circuit Number
- Luminaire, Ornamental, 55W LED, 18' Mounting Height, Dual Arm Mount
- Luminaire, Ornamental, 90W LED, 18' Mounting Height, Post Top Mount

DATE	REVISION
1/15/2016	REV 1: Revised Legend Item
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON REGISTERED No. 11200692 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: AMJ | DRAWN: JRG | CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

LIGHTING DETAILS
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	179 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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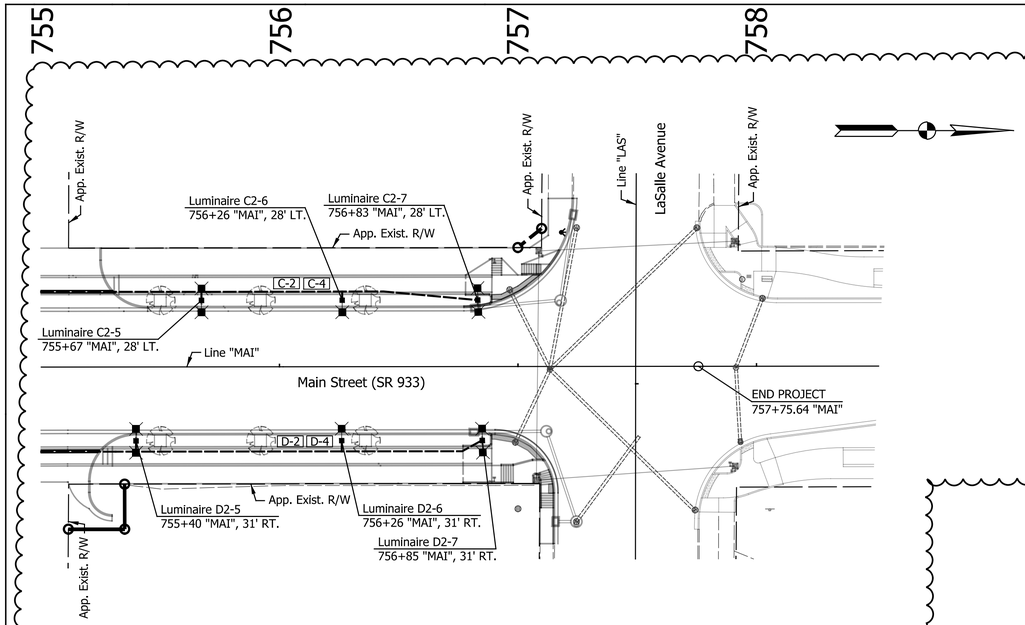

SERVICE POINT AMP TABLE (MAIN STREET)							
SERVICE POINT	MAIN BREAKER	BRANCH CIRCUIT	DESCRIPTION	COMPUTED AMPS BLACK	COMPUTED AMPS RED	COMPUTED AMPS TOTAL	BRANCH CIRCUIT BREAKER
A	200 AMP	A-1	LUMINAIRES	11.6	11.6	23.2	30 AMP
		A-2	LUMINAIRES	11.6	11.6	23.2	30 AMP
		A-3	RECEPTACLES	11.8	11.8	23.7	30 AMP
		A-4	RECEPTACLES	11.8	11.8	23.7	30 AMP
B	200 AMP	B-1	LUMINAIRES	11.6	11.6	23.2	30 AMP
		B-2	LUMINAIRES	10.2	11.6	21.8	30 AMP
		B-3	RECEPTACLES	11.8	11.8	23.7	30 AMP
		B-4	RECEPTACLES	10.4	11.8	22.2	30 AMP
C	200 AMP	C-1	LUMINAIRES	10.2	10.2	20.3	30 AMP
		C-2	LUMINAIRES	8.7	7.3	16.0	30 AMP
		C-3	RECEPTACLES	10.4	10.4	20.7	30 AMP
		C-4	RECEPTACLES	8.9	7.4	16.3	30 AMP
D	200 AMP	D-1	LUMINAIRES	11.6	11.6	23.2	30 AMP
		D-2	LUMINAIRES	7.3	8.7	16.0	30 AMP
		D-3	RECEPTACLES	11.8	11.8	23.7	30 AMP
		D-4	RECEPTACLES	7.4	8.9	16.3	30 AMP

DESIGN DATA TABLE - MAIN STREET	
INITIAL LAMP LUMEN (LL)	Absolute
LAMP LUMEN DEPRECIATION FACTOR (LLD)	0.95
LUMINAIRE DIRT DEPRECIATION FACTOR (LDD)	0.95
MAINTENANCE FACTOR (LLD * LDD)	0.90
AVERAGE MAINTAINED ILLUMINATION (fc)	1.3
UNIFORMITY RATIO	4.0:1
EFFECTIVE MOUNTING HEIGHT	18'
LUMINAIRE CLASSIFICATION	Type IV

NOTES:
1. Contractor to field verify offsets to ensure center of foundation is at least 3' from face of curb.
2. Contractor to level luminaires in field.
3. Remove existing luminaires from existing poles. Remove any existing poles not carrying electrical service.
4. Service points to be in same cabinet as signal service points. See Special Provisions.
5. Each light pole to include 120V receptacles.
6. Do not place lighting conduit through tree grates.
7. Abandon all existing lighting cableduct and conduit.
8. All conduit under pavement shall utilize directional bore method for installation.

LEGEND
- Service Point, 120/240V
- Lighting Handhole (Type as Shown)
- Illuminated Bollard
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 PVC Conduit
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 HDPE Conduit Under Roadway (1)
- A-1 Lighting Circuit Number
- Luminaire, Ornamental, 55W LED, 18' Mounting Height, Dual Arm Mount
- Luminaire, Ornamental, 90W LED, 18' Mounting Height, Post Top Mount

DATE	REVISION
1/15/2016	REV 1: Revised Legend Item
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON REGISTERED No. 11200692 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ 1/7/2016
DESIGN ENGINEER DATE

DESIGNED: AMJ DRAWN: JRG
CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

LIGHTING DETAILS
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	180 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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LUMINAIRE TABLE

LUMINAIRE NO.	A1-1	A1-2	A1-3	A1-4	A1-5	A1-6	A1-7	A1-8	A1-9	A-10	A2-1	A2-2	A2-3	A2-4	A2-5	A2-6	A2-7	A2-8	A2-9	A2-10
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)	90	180	180	90	180	90	180	90	180	180	90	180	90	180	180	180	90	180	90	180
FOUNDATION TYPE (SEE LEGEND BELOW)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
CIRCUIT NUMBER	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1
CIRCUIT CONNECTION (BLACK OR RED)	R	BR	BR	B	BR	R	BR	B	BR	BR	B	BR	R	BR	BR	BR	B	BR	R	BR
CONNECTOR TYPE (PER E807-LTWR-01)	I	II	II	II	II	II	II	II	II	I	II	II	II	II	II	II	II	II	II	I
MAST ARM LENGTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																				
POLE SET BACK (FT)	31' LT	35' LT	49' LT	31' LT	31' LT	31' LT	30' LT	28' LT	41' LT	42' LT	28' LT	28' LT	28' LT	28' LT	42' LT	41' LT	28' LT	28' LT	28' LT	28' LT
SHOULDER WIDTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES	1	2	2	1	2	1	2	1	2	2	1	2	1	2	2	2	1	2	1	2
SET BACK FROM FACE OF CURB																				
SET BACK FROM LINE	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"
SET BACK FROM RAMP																				
SEE NOTES																				

LUMINAIRE TABLE

LUMINAIRE NO.	B1-1	B1-2	B1-3	B1-4	B1-5	B1-6	B1-7	B1-8	B1-9	B1-10	B2-1	B2-2	B2-3	B2-4	B2-5	B2-6	B2-7	B2-8	B2-9	B2-10
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)	90	180	180	90	180	90	180	90	180	180	90	180	90	180	90	180	180	90	180	90
FOUNDATION TYPE (SEE LEGEND BELOW)	G	G	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G	G	G
CIRCUIT NUMBER	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1
CIRCUIT CONNECTION (BLACK OR RED)	B	BR	BR	R	BR	B	BR	R	BR	BR	R	BR	B	BR	R	BR	BR	B	BR	R
CONNECTOR TYPE (PER E807-LTWR-01)	I	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	I
MAST ARM LENGTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																				
POLE SET BACK (FT)	31' RT	35' RT	41' RT	28' RT	28' RT	28' RT	28' RT	22' RT	41' RT	40' RT	28' RT	28' RT	28' RT	28' RT	28' RT	41' RT	40' RT	28' RT	28' RT	28' RT
SHOULDER WIDTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES	1	2	2	1	2	1	2	1	2	2	1	2	1	2	1	2	2	1	2	1
SET BACK FROM FACE OF CURB																				
SET BACK FROM LINE	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"
SET BACK FROM RAMP																				
SEE NOTES																				

LUMINAIRE TABLE

LUMINAIRE NO.	C1-1	C1-2	C1-3	C1-4	C1-5	C1-6	C1-7	C1-8	C1-9	C2-1	C2-2	C2-3	C2-4	C2-5	C2-6	C2-7
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)	9	180	180	90	180	90	180	90	180	180	90	180	90	180	90	180
FOUNDATION TYPE (SEE LEGEND BELOW)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
CIRCUIT NUMBER	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1	C-1
CIRCUIT CONNECTION (BLACK OR RED)	R	BR	BR	B	BR	R	BR	B	BR	BR	B	BR	R	BR	B	BR
CONNECTOR TYPE (PER E807-LTWR-01)	I	II	II	II	II	II	II	II	III	II	II	II	II	II	II	I
MAST ARM LENGTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																
POLE SET BACK (FT)	22' LT	41' LT	41' LT	28' LT	28' LT	28' LT	28' LT	22' LT	41' LT	41' LT	21' LT	28' LT	29' LT	28' LT	28' LT	28' LT
SHOULDER WIDTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES	2	2	2	1	2	1	2	1	2	2	1	2	1	2	1	2
SET BACK FROM FACE OF CURB																
SET BACK FROM LINE	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"
SET BACK FROM RAMP																
SEE NOTES																

LUMINAIRE TABLE

LUMINAIRE NO.	D1-1	D1-2	D1-3	D1-4	D1-5	D1-6	D1-7	D1-8	D1-9	D1-10	D2-1	D2-2	D2-3	D2-4	D2-5	D2-6	D2-7
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)	180	90	180	180	90	180	90	180	90	180	180	90	180	90	180	90	180
FOUNDATION TYPE (SEE LEGEND BELOW)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
CIRCUIT NUMBER	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1
CIRCUIT CONNECTION (BLACK OR RED)	BR	B	R	BR	R	BR	B	BR	R	BR	BR	R	BR	B	BR	R	BR
CONNECTOR TYPE (PER E807-LTWR-01)	II	II	II	II	II	II	II	II	II	II	II	I	II	II	II	II	I
MAST ARM LENGTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																	
POLE SET BACK (FT)	28' RT	28' RT	41' RT	41' RT	29' RT	28' RT	29' RT	31' RT	31' RT	46' RT	45' RT	31' RT	31' RT	31' RT	31' RT	31' RT	31' RT
SHOULDER WIDTH (FT)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES	2	1	2	2	1	2	1	2	1	2	2	1	2	1	2	1	2
SET BACK FROM FACE OF CURB																	
SET BACK FROM LINE	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"	"MAI"
SET BACK FROM RAMP																	
SEE NOTES																	

180 = 90W LED DUAL ARM MOUNT
90 = 90W LED POST TOP MOUNT
G = LIGHT STANDARD FOUNDATION, 2 FT. DIA X 6 FT. (GROUND MOUNTED) ON ANCHOR BASE
B = BLACK CIRCUIT
R = RED CIRCUIT
BR = BLACK AND RED CIRCUITS
Use E.M.H. as pole height

DATE	REVISION
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON
REGISTERED
No. 11200692
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: AMJ DRAWN: JRG
CHECKED: CRH CHECKED: CRH

CITY OF SOUTH BEND

LUMINAIRE TABLE
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	181 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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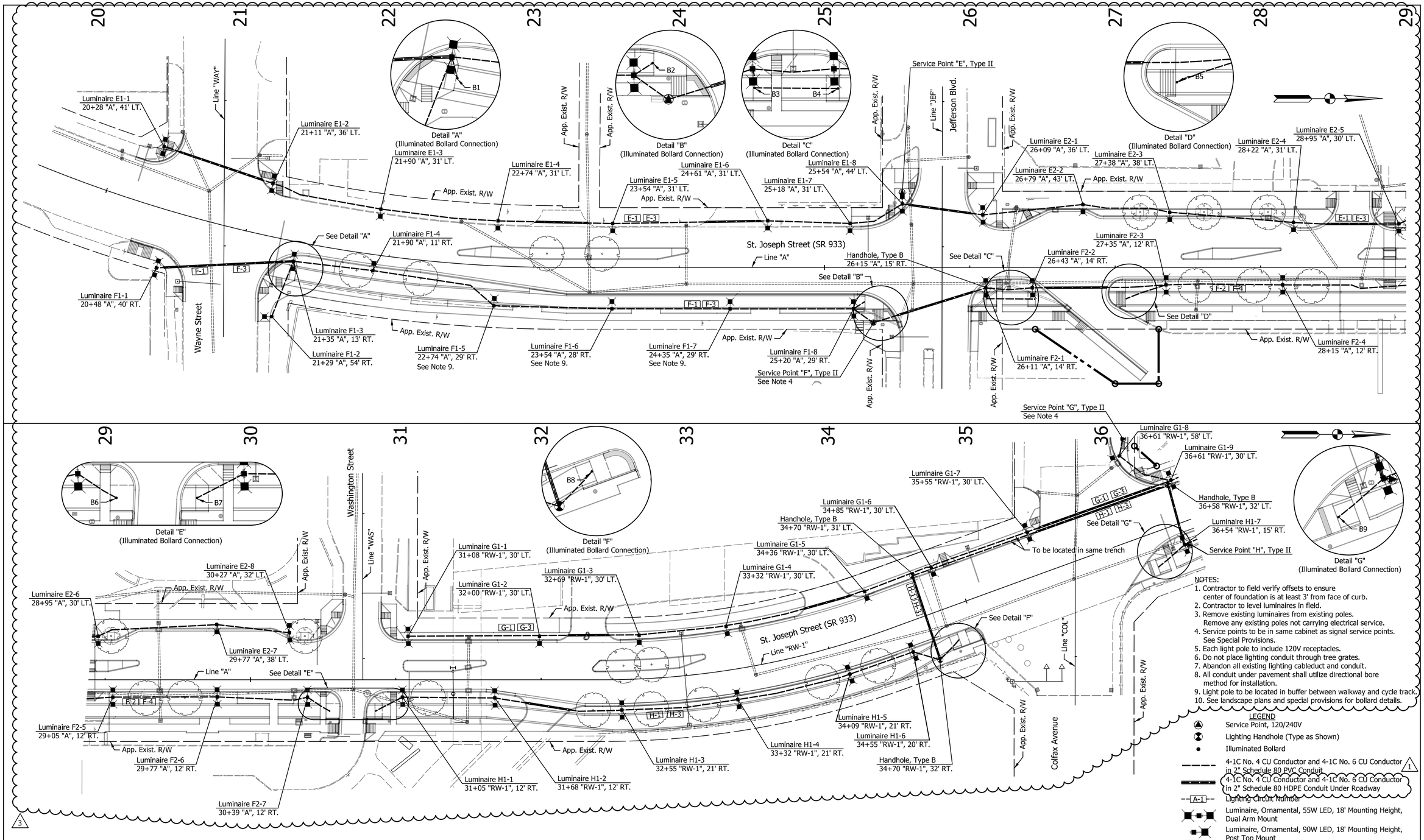

DATE	REVISION
1/15/2016	REV 1: Revised Legend Item
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON REGISTERED No. 11200692 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: AMJ | DRAWN: JRG | CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

LIGHTING DETAILS
ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	182 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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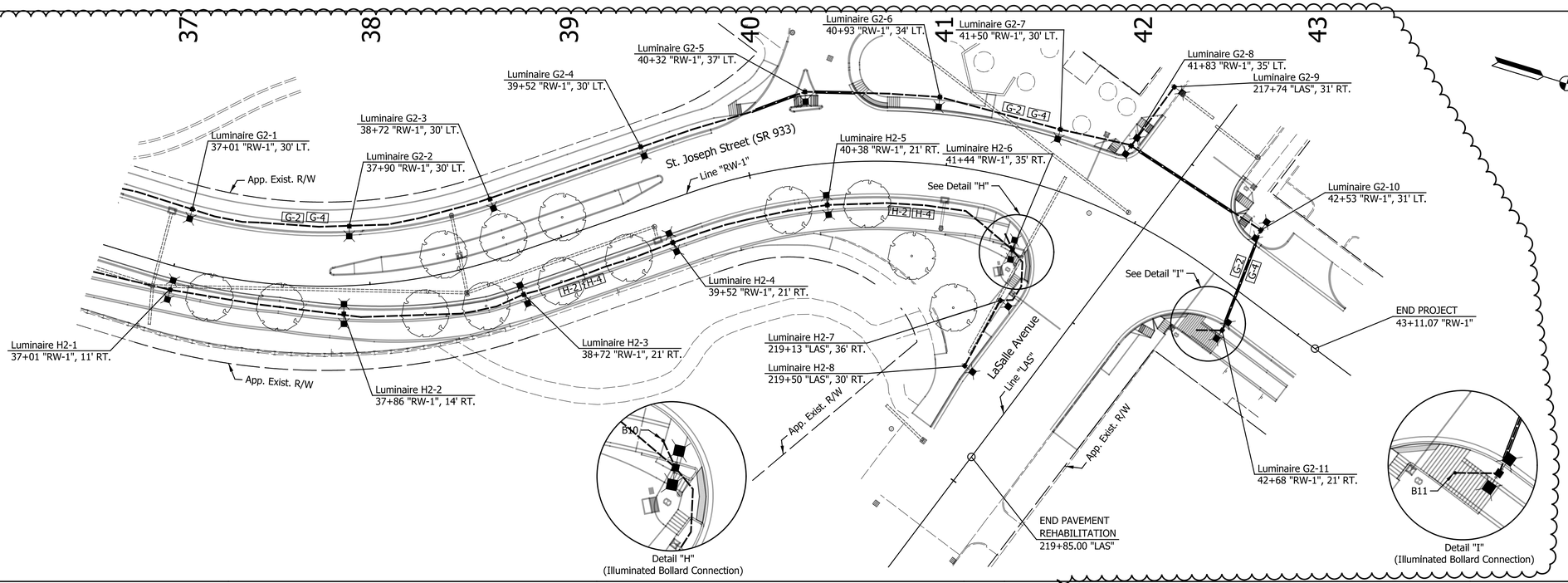
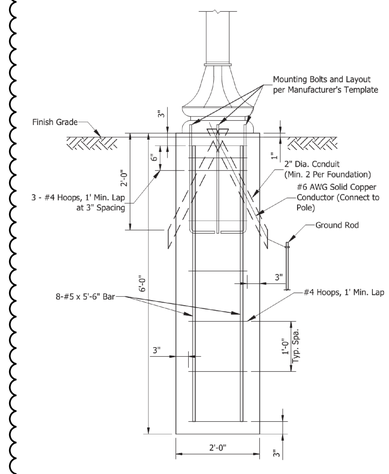


NOTES:
1. Contractor to field verify offsets to ensure center of foundation is at least 3' from face of curb.
2. Contractor to level luminaires in field.
3. Remove existing luminaires from existing poles. Remove any existing poles not carrying electrical service.
4. Service points to be in same cabinet as signal service points. See special provisions.
5. Each light pole to include 120V receptacle.
6. Abandon all existing lighting cableduct and conduit.
7. All conduit under pavement shall utilize directional bore method for installation.
8. See landscape plans and special provisions for bollard details.

SERVICE POINT AMP TABLE (MICHIGAN/ST JOSEPH STREETS)							
SERVICE POINT	MAIN BREAKER	BRANCH CIRCUIT	DESCRIPTION	COMPUTED AMPS BLACK	COMPUTED AMPS RED	COMPUTED AMPS TOTAL	BRANCH CIRCUIT BREAKER
E	200 AMP	E-1	LUMINAIRES	8.7	7.3	16.0	30 AMP
		E-2	LUMINAIRES	5.8	7.3	13.1	30 AMP
		E-3	RECEPTACLES	8.9	7.4	16.3	30 AMP
		E-4	RECEPTACLES	5.9	7.4	13.3	30 AMP
F	200 AMP	F-1	LUMINAIRES	11.0	8.1	19.2	30 AMP
		F-2	LUMINAIRES	12.5	11.0	23.5	30 AMP
		F-3	RECEPTACLES	10.4	10.4	20.7	30 AMP
		F-4	RECEPTACLES	10.4	10.4	20.7	30 AMP
G	200 AMP	G-1	LUMINAIRES	8.7	10.2	18.9	30 AMP
		G-2	LUMINAIRES	10.2	10.2	20.3	30 AMP
		G-3	RECEPTACLES	8.9	10.4	19.2	30 AMP
		G-4	RECEPTACLES	10.4	10.4	20.7	30 AMP
H	200 AMP	H-1	LUMINAIRES	11.0	15.4	26.4	30 AMP
		H-2	LUMINAIRES	12.5	11.6	24.1	30 AMP
		H-3	RECEPTACLES	14.8	14.8	29.6	40 AMP
		H-4	RECEPTACLES	11.6	11.6	23.2	30 AMP

3

DESIGN DATA TABLE - MICHIGAN/ST JOSEPH STREETS	
INITIAL LAMP LUMEN (LL)	Absolute
LAMP LUMEN DEPRECIATION FACTOR (LLD)	0.95
LUMINAIRE DIRT DEPRECIATION FACTOR (LDD)	0.95
MAINTENANCE FACTOR (LLD * LDD)	0.90
AVERAGE MAINTAINED ILLUMINATION (fc)	1.4
UNIFORMITY RATIO	4.0:1
MOUNTING HEIGHT	18'
LUMINAIRE CLASSIFICATION	Type IV



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ORNAMENTAL LIGHT POLE FOUNDATION
Scale: N.T.S.

LEGEND
- Service Point, 120/240V
- Lighting Handhole (Type as Shown)
- Illuminated Bollard
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 PVC Conduit (1)
- 4-1C No. 4 CU Conductor and 4-1C No. 6 CU Conductor in 2" Schedule 80 HDPE Conduit Under Roadway
- A-1 Lighting Circuit Number
- Luminaire, Ornamental, 55W LED, 18' Mounting Height, Dual Arm Mount
- Luminaire, Ornamental, 90W LED, 18' Mounting Height, Post Top Mount

DATE	REVISION
1/15/2016	REV 1: Revised Legend Item & Added Detail
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON REGISTERED No. 11200692 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: AMJ DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

LIGHTING DETAILS
ST. JOSEPH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	183 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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3

LUMINAIRE TABLE

LUMINAIRE NO.		E1-1	E1-2	E1-3	E1-4	E1-5	E1-6	E1-7	E1-8	E2-1	E2-2	E2-3	E2-4	E2-5	E2-6	E2-7	E2-8
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)		180	180	90	90	90	90	90	180	180	90	90	90	90	90	90	180
FOUNDATION TYPE (SEE LEGEND BELOW)		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
CIRCUIT NUMBER		E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1
CIRCUIT CONNECTION (BLACK OR RED)		BR	BR	B	R	B	R	B	BR	BR	R	B	R	B	R	BR	BR
CONNECTOR TYPE (PER E807-LTWR-01)		I	II	II	II	II	II	II	III	II	II	II	II	II	II	I	I
MAST ARM LENGTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																	
POLE SET BACK (FT)		41' LT	36' LT	32' LT	31' LT	31' LT	31' LT	31' LT	44' LT	36' LT	43' LT	38' LT	31' LT	30' LT	30' LT	38' LT	32' LT
SHOULDER WIDTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)		18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES		2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	2
SET BACK FROM	FACE OF CURB																
	LINE	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"
	RAMP																
SEE NOTES																	

LUMINAIRE TABLE

LUMINAIRE NO.		F1-1	F1-2	F1-3	F1-4	F1-5	F1-6	F1-7	F1-8	B1	B2	F2-1	F2-2	F2-3	F2-4	F2-5	F2-6	F2-7	B3	B4	B5	B6
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)		180	90	180	90	90	90	90	180	23	23	180	180	180	180	180	180	180	23	23	23	23
FOUNDATION TYPE (SEE LEGEND BELOW)		G	G	G	G	G	G	G	G	BB	BB	G	G	G	G	G	G	G	BB	BB	BB	BB
CIRCUIT NUMBER		F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1	F-1
CIRCUIT CONNECTION (BLACK OR RED)		BR	B	BR	R	B	R	B	BR	B	R	BR	BR	BR	BR	BR	BR	BR	B	R	B	R
CONNECTOR TYPE (PER E807-LTWR-01)		I	I	III	II	II	II	II	II	I	I	II	II	II	II	II	II	II	II	I	I	I
MAST ARM LENGTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																						
POLE SET BACK (FT)		40' RT	54' RT	13' RT	11' RT	29' RT	28' RT	29' RT	29' RT	FV	FV	14' RT	14' RT	12' RT	12' RT	12' RT	12' RT	12' RT	FV	FV	FV	FV
SHOULDER WIDTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)		18'	18'	18'	18'	18'	18'	18'	18'	3.5'	3.5'	18'	18'	18'	18'	18'	18'	18'	3.5'	3.5'	3.5'	3.5'
NUMBER OF LUMINAIRES		1	2	2	1	1	1	1	2			2	2	2	2	2	2	2				
SET BACK FROM	FACE OF CURB																					
	LINE	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"
	RAMP																					
SEE NOTES																						

LUMINAIRE TABLE

LUMINAIRE NO.		G1-1	G1-2	G1-3	G1-4	G1-5	G1-6	G1-7	G1-8	G1-9	G2-1	G2-2	G2-3	G2-4	G2-5	G2-6	G2-7	G2-8	G2-9	G2-10	G2-11
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)		180	90	90	90	90	90	180	90	180	90	90	90	90	90	90	90	180	90	180	180
FOUNDATION TYPE (SEE LEGEND BELOW)		G	G	G	G	G	G	G	G	G	G	BB	BB	BB	BB	BB	G	G	G	G	G
CIRCUIT NUMBER		G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1
CIRCUIT CONNECTION (BLACK OR RED)		B	BR	BR	R	B	BR	BR	R	B	BR	R	B	R	B	R	BR	BR	R	B	BR
CONNECTOR TYPE (PER E807-LTWR-01)		I	II	II	II	II	II	II	II	III	II	II	II	II	II	II	II	III	I	II	I
MAST ARM LENGTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																					
POLE SET BACK (FT)		30' LT	30' LT	30' LT	30' LT	30' LT	30' LT	30' LT	58' LT	30' LT	30' LT	30' LT	30' LT	30' LT	37' LT	34' LT	30' LT	35' LT	31' RT	31' LT	21' RT
SHOULDER WIDTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)		18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
NUMBER OF LUMINAIRES		2	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	2	1	2	2
SET BACK FROM	FACE OF CURB																				
	LINE	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"LAS"	"RW-1"	"RW-1"
	RAMP																				
SEE NOTES																					

LUMINAIRE TABLE

LUMINAIRE NO.		H1-1	H1-2	H1-3	H1-4	H1-5	H1-6	H1-7	B7	B8	B9	H2-1	H2-2	H2-3	H2-4	H2-5	H2-6	H2-7	H2-8	B10
LUMINAIRE TYPE (SEE SPECIAL PROVISIONS)		180	180	180	180	180	180	180	23	23	23	180	180	180	180	180	180	90	90	23
FOUNDATION TYPE (SEE LEGEND BELOW)		G	G	G	G	G	G	G	BB	BB	BB	G	G	G	G	G	G	G	G	BB
CIRCUIT NUMBER		H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1
CIRCUIT CONNECTION (BLACK OR RED)		BR	BR	BR	BR	BR	BR	BR	B	R	B	BR	BR	BR	BR	BR	BR	B	R	B
CONNECTOR TYPE (PER E807-LTWR-01)		II	II	II	II	II	II	III	I	I	I	II	II	II	II	II	II	II	I	I
MAST ARM LENGTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELEVATION																				
POLE SET BACK (FT)		12' RT	12' RT	21' RT	21' RT	21' RT	20' RT	15' RT	FV	FV	FV	11' RT	14' RT	21' RT	21' RT	21' RT	35' RT	36' RT	30' RT	FV
SHOULDER WIDTH (FT)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LUMINAIRE E.M.H. (FT)		18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	3.5'	3.5'	3.5'	3.5'	3.5'	18'	18'	18'	18'
NUMBER OF LUMINAIRES		2	2	2	2	2	2	2				2	2	2	2	2	2	1	1	
SET BACK FROM	FACE OF CURB																			
	LINE	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"RW-1"	"LAS"	"LAS"	"RW-1"
	RAMP																			
SEE NOTES																				

180 = 90W LED DUAL ARM MOUNT
90 = 90W LED POST TOP MOUNT
23 = 23W LED BOLLARD TO BE LOCATED IN CENTER OF CYCLE TRACK AT TOP OF RAMP
G = LIGHT STANDARD FOUNDATION, 2 FT. DIA X 6 FT. (GROUND MOUNTED) ON ANCHOR BASE
B = BLACK CIRCUIT
R = RED CIRCUIT
BR = BLACK AND RED CIRCUITS
Use E.M.H. as pole height
FV = FIELD VERIFY BOLLARDS ARE PLACED IN CENTER OF CYCLE TRACK AT TOP OF THE RAMP
BB = FOUNDATION TO ACCOMMODATE BOLLARD. SEE LANDSCAPE PLANS FOR DETAILS.

DATE	REVISION
2/12/2016	REV 3: Revised Luminaire Layout

AMANDA M. JOHNSON
REGISTERED
No. 11200692
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: AMJ | DRAWN: JRG
CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

LUMINAIRE TABLE
MICHIGAN ST. & ST. JOSEPH ST.

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	184 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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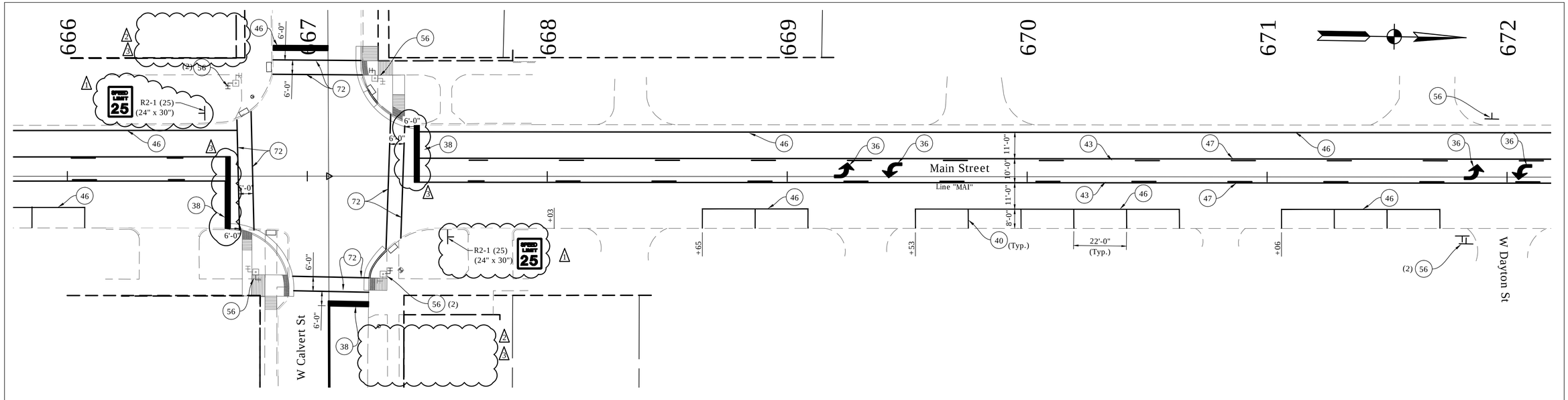

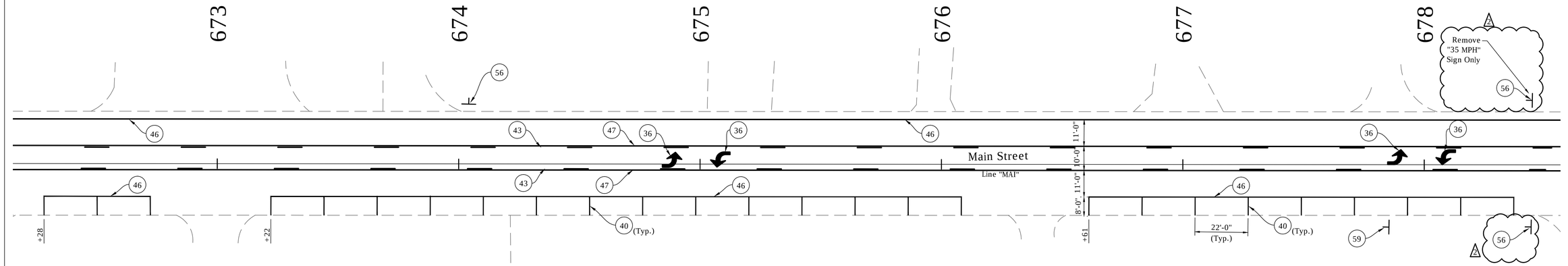

NOTES:

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

Existing Signs to Remain in Place, Unless Otherwise Noted.

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.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Signs
2/12/2016	Rev 3: Remove Stop Signs & Add Stop Bars

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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)

DIRECTORY....F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\
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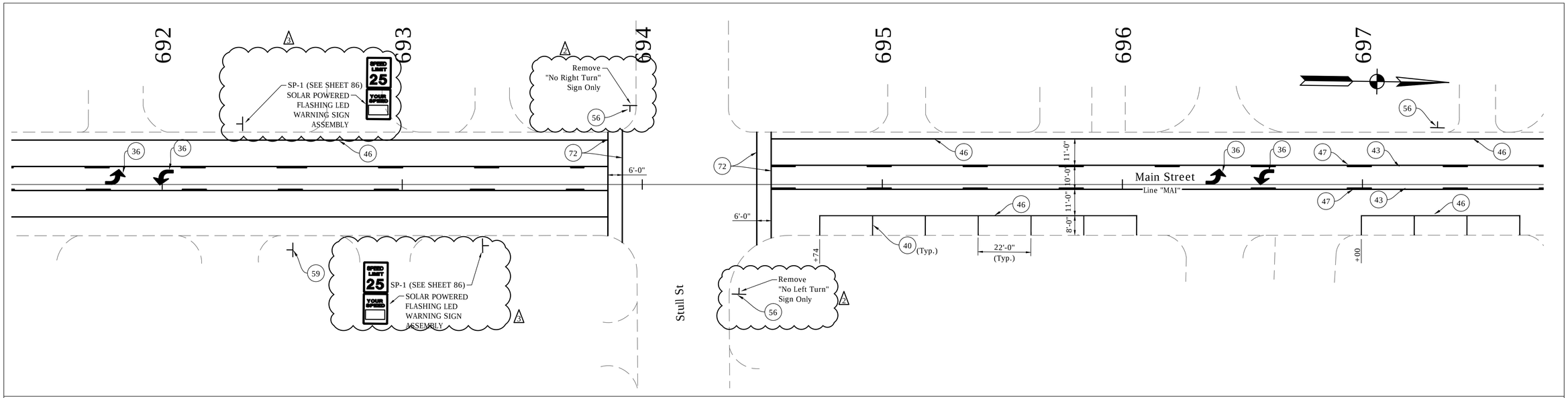
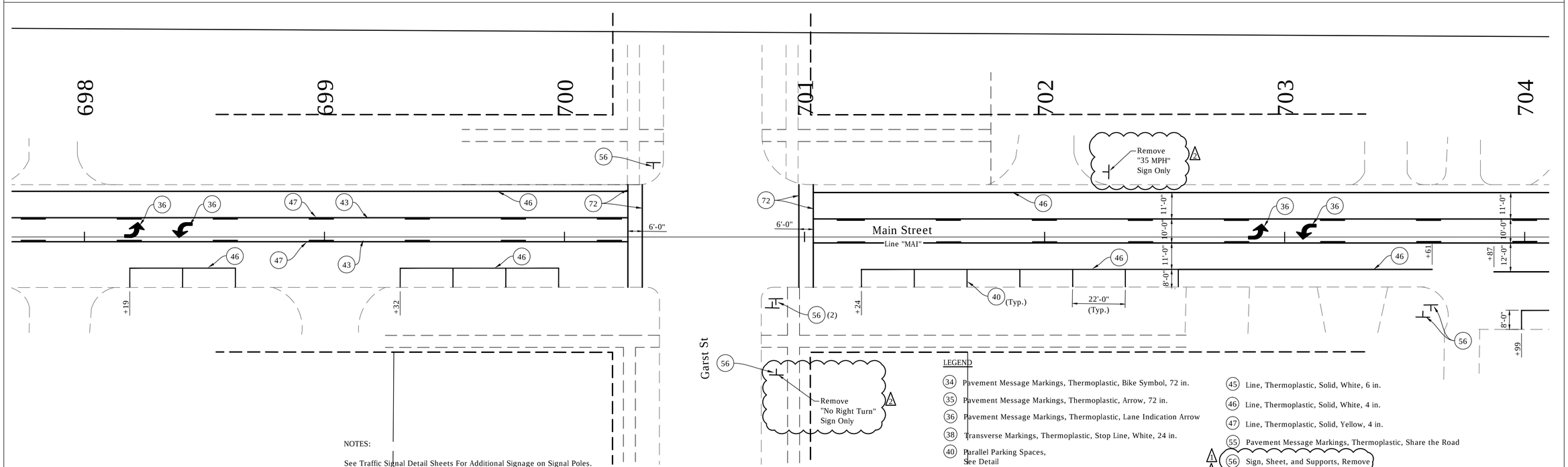
DMSCALE.....ISCALE...1
PLOTTED BY.....Bill Schmitt
DATE.....Feb 15,2016 - 1:49pm





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.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend
1/29/2016	Rev 2: Revise Legend & Add Note to Signs
2/12/2016	Rev 3: Add Signs

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: HCF III | DRAWN: BRD

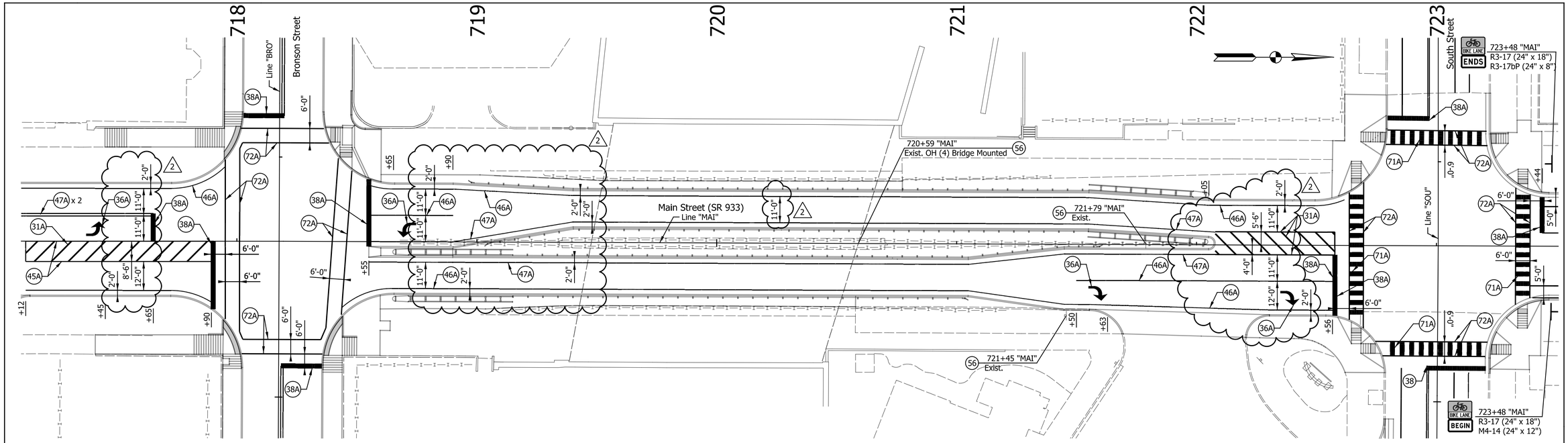
CHECKED: JG | CHECKED: JG

CITY OF SOUTH BEND

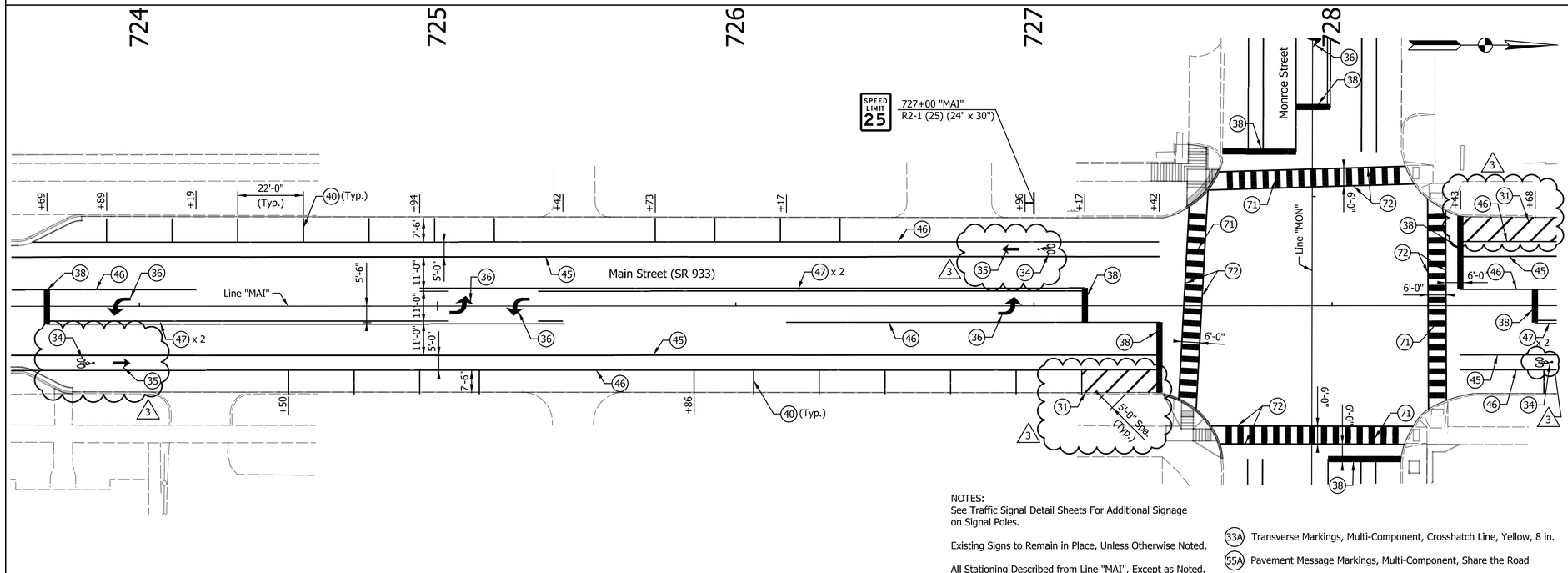
PAVEMENT MARKINGS & SIGNING DETAILS
MAIN STREET

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:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\
FILE.....15-3329 PM Main st NORTH.dwg
DWGSCALE=1.0000, LTSCALE=1
PLOTTED BY....Brian Dorsey
DATE.....Feb 15,2016 - 1:49pm



(31) Transverse Markings, Thermoplastic, Crosshatch Line, White, 8 in. (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, Mulit-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.
(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.

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

(33A) Transverse Markings, Multi-Component, Crosshatch Line, Yellow, 8 in.
(55A) Pavement Message Markings, Multi-Component, Share the Road

DATE	REVISION
1/29/2016	REV 2: Revised Markings
2/12/2016	REV 3: Revised Bike Lane Marking

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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 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)

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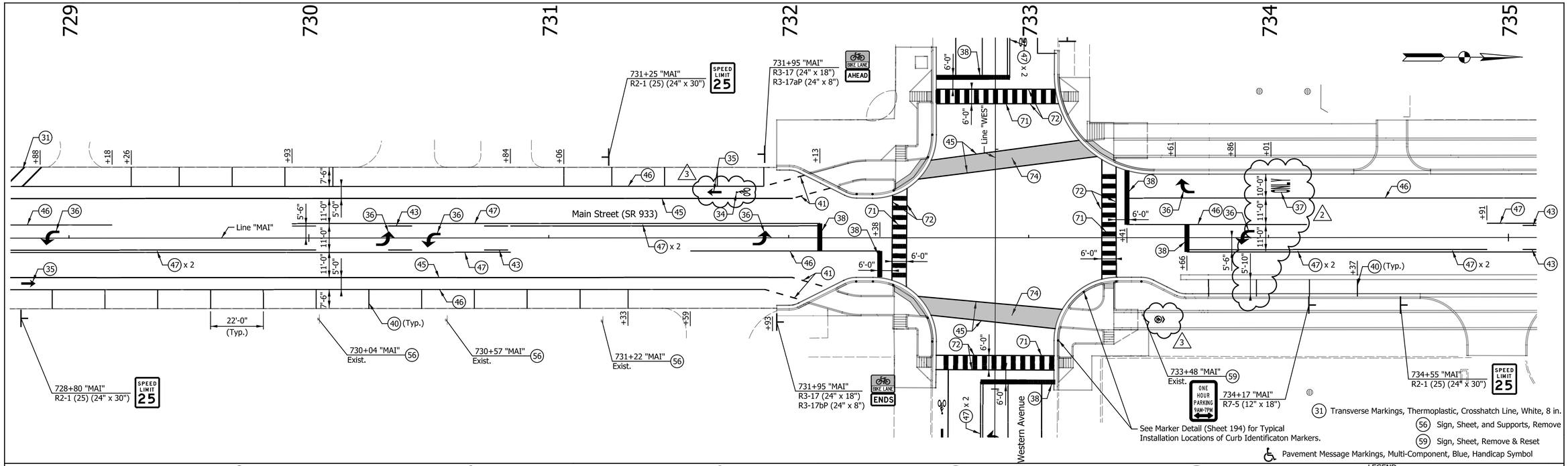

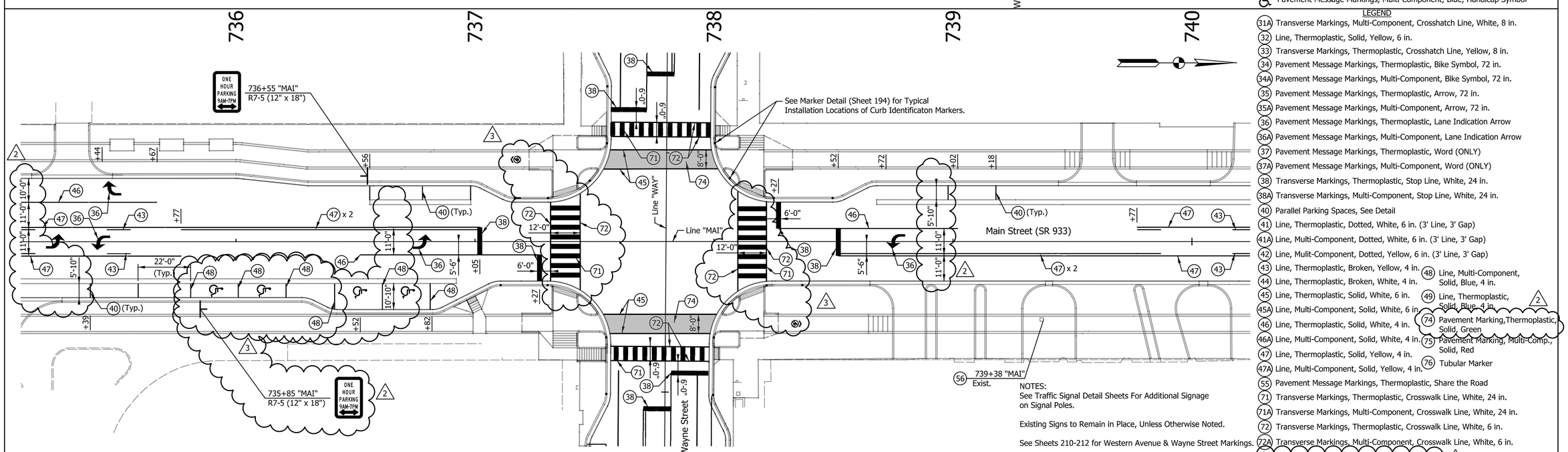

LEGEND

- (31) Transverse Markings, Thermoplastic, Crosshatch Line, White, 8 in.
- (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, Mulit-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
- (56) Sign, Sheet, and Supports, Remove
- (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
- (75) Pavement Marking, Multi-Comp., Solid, Red
- (76) Tubular Marker
- Pavement Message Markings, Multi-Component, Blue, Handicap Symbol
- Cycle Track Marking (See Landscaping Details)

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
2/12/2016	REV 3: Revised Cycle Track Marking

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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)

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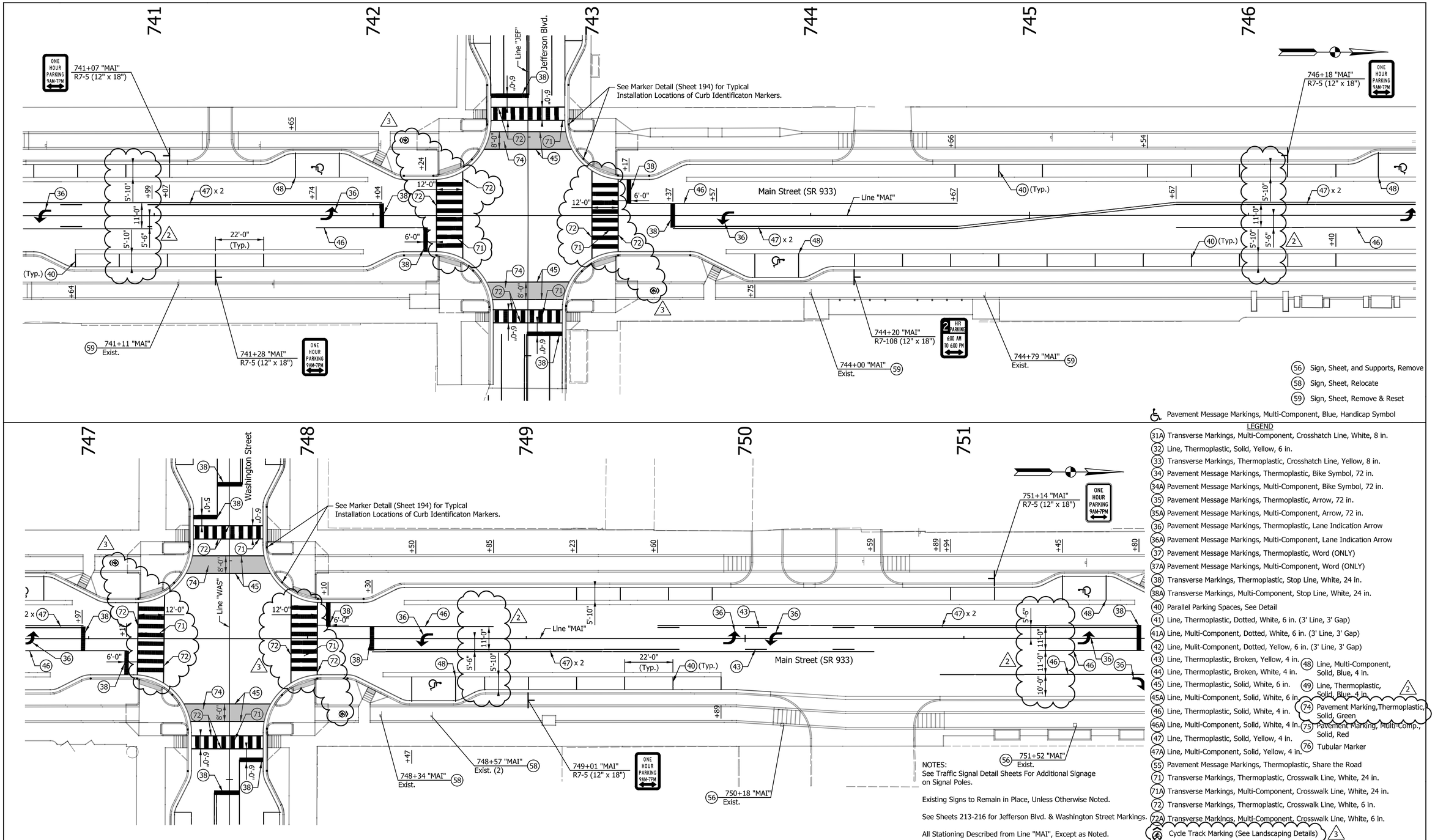

NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

Existing Signs to Remain in Place, Unless Otherwise Noted.

See Sheets 213-216 for Jefferson Blvd. & Washington Street Markings.

All Stationing Described from Line "MAI", 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, Mulit-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
- (56) Sign, Sheet, and Supports, Remove
- (58) Sign, Sheet, Relocate
- (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
- (75) Pavement Marking, Multi-Comp., Solid, Red
- (76) Tubular Marker
- Pavement Message Markings, Multi-Component, Blue, Handicap Symbol
- Cycle Track Marking (See Landscaping Details) 3

DATE	REVISION
1/29/2016	REV 2: Revised Markings
2/12/2016	REV 3: Revised Cycle Track Marking

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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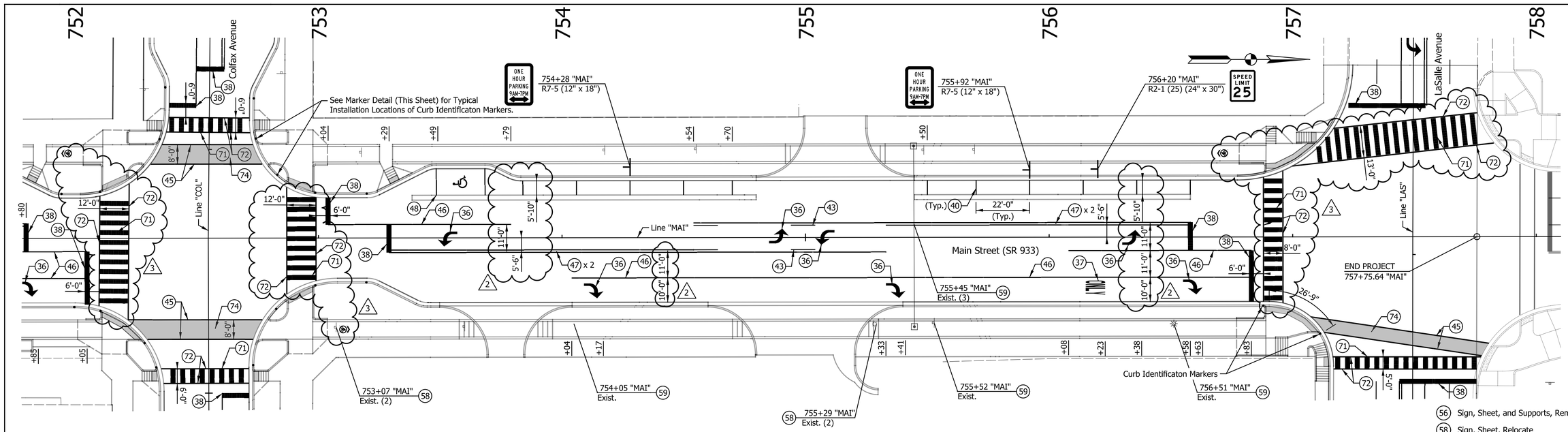

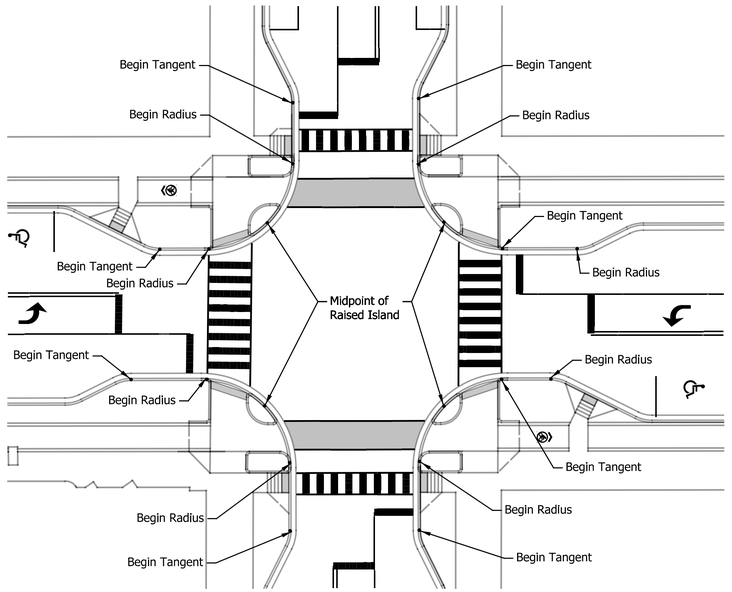

Marker, Raised Curb Identification - Typical Placement at Bumpouts

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 Avenue & LaSalle Avenue Markings.

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

(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, Mulit-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.
(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.
(2) Cycle Track Marking (See Landscaping Details) (3)

DATE	REVISION
1/29/2016	REV 2: Revised Markings
2/12/2016	REV 3: Revised Cycle Track Marking

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	194 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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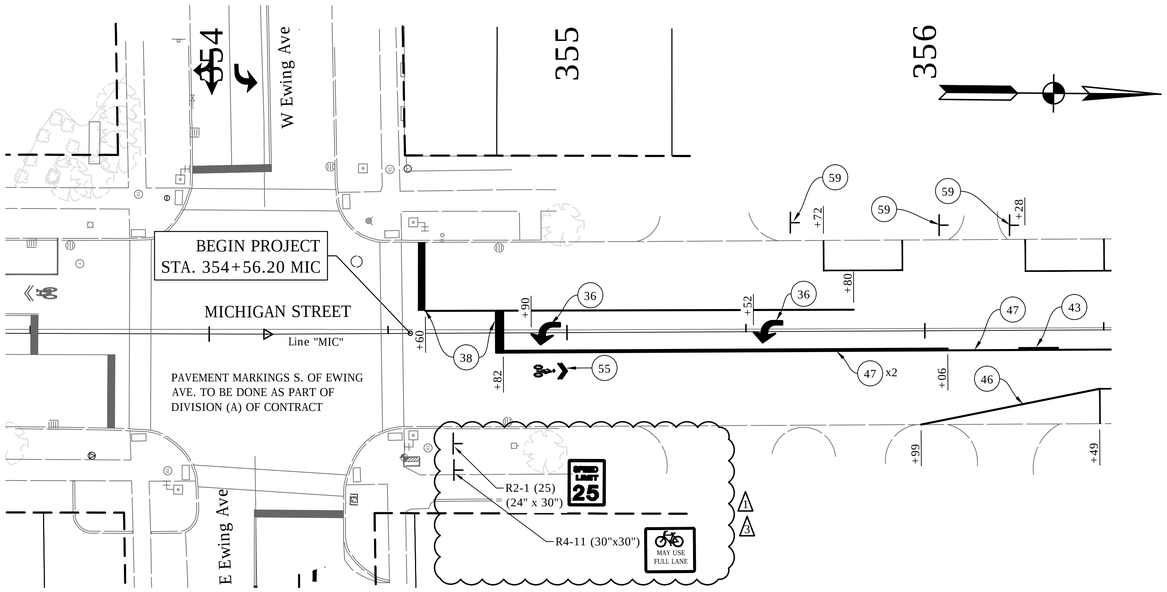

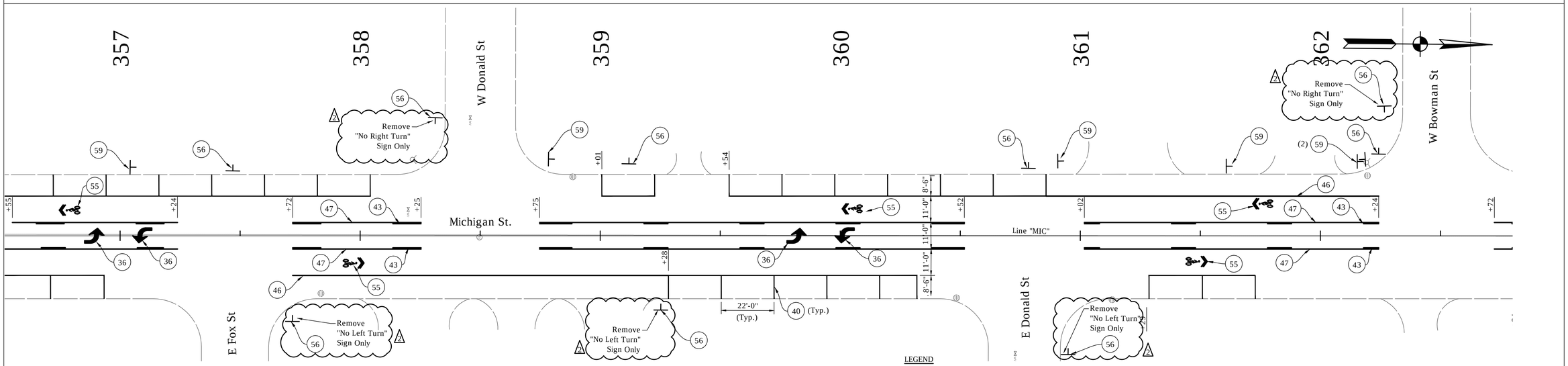

NOTES:

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

Existing Signs to Remain in Place, Unless Otherwise Noted.

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
1 2 (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 Signs
2/12/2016	Rev 3: Revise Sign & Bike Lane Symbol

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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)

DIRECTORY....F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\
FILE.....15-3329 PM Michigan st north.dwg
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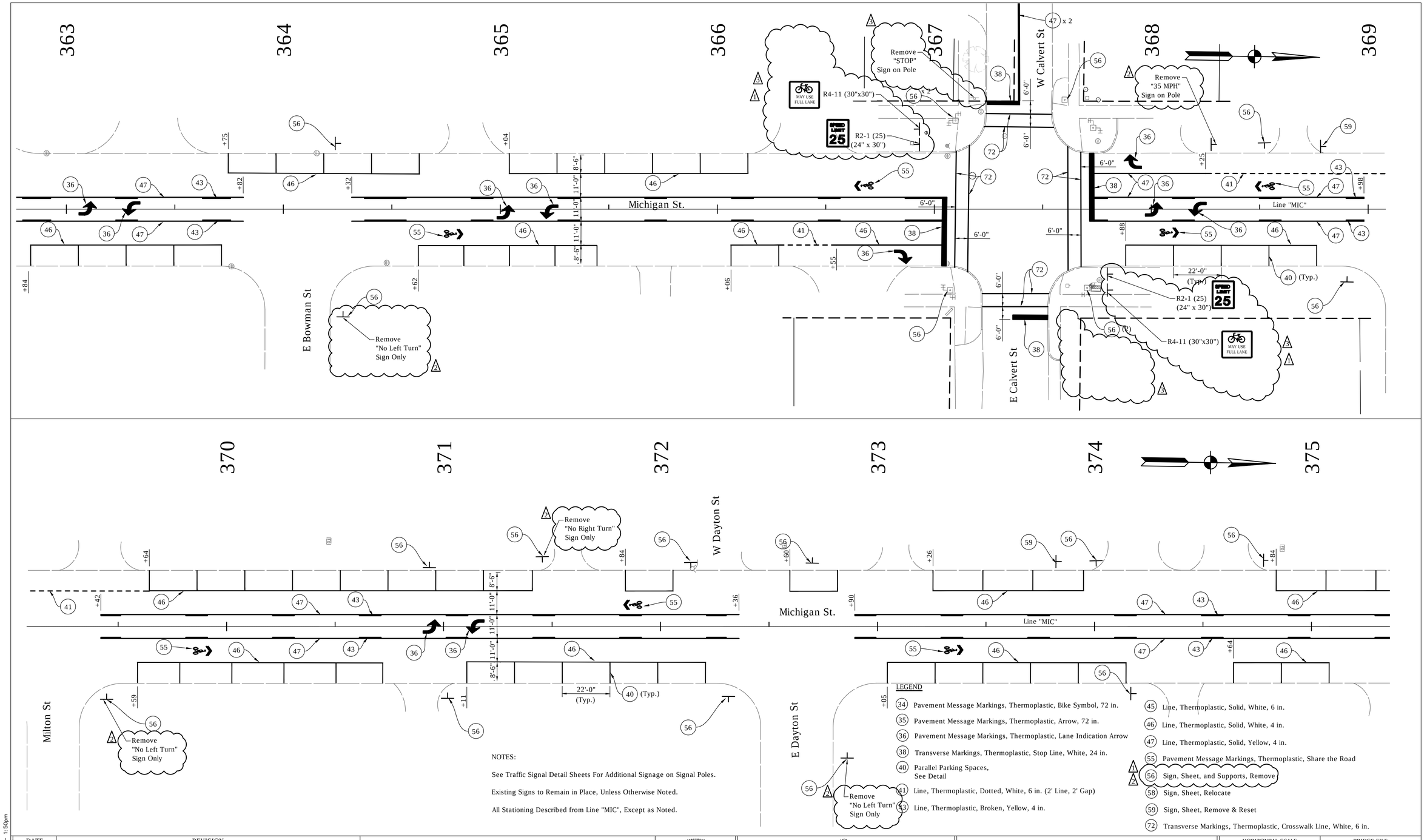
PLOTTED BY...Brad Dixon
DATE.....Feb 15,2016 - 1:50pm



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
2/12/2016	Rev 3: Revise Sign & Bike Lane Symbol & Revise Pavement Markings & Remove Stop Sign

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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)

DIRECTORY...F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\
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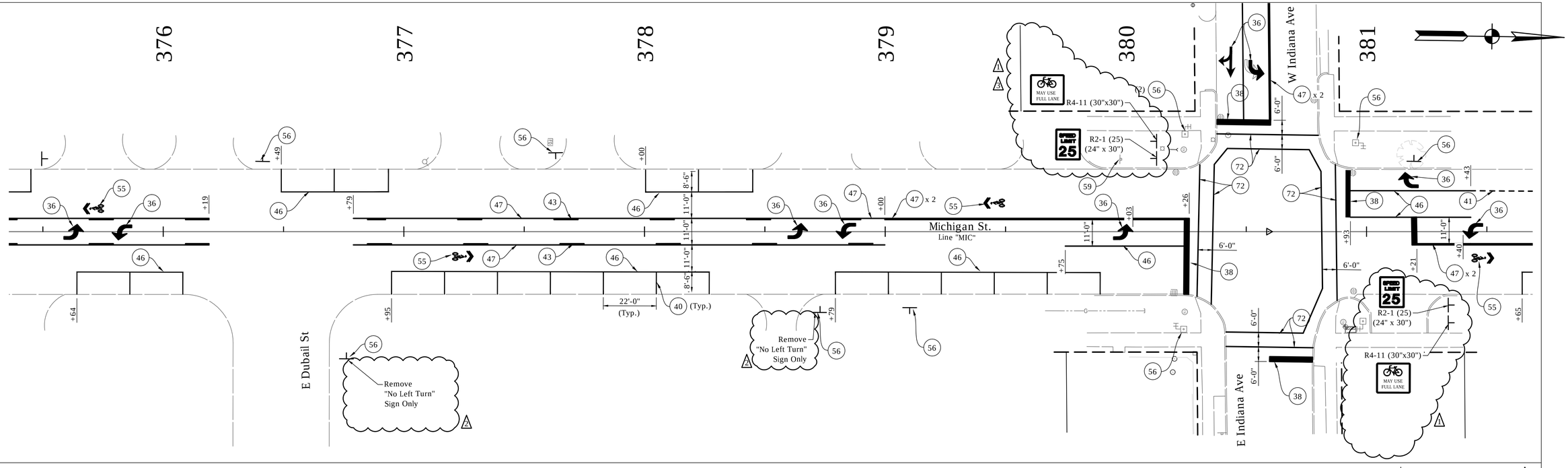
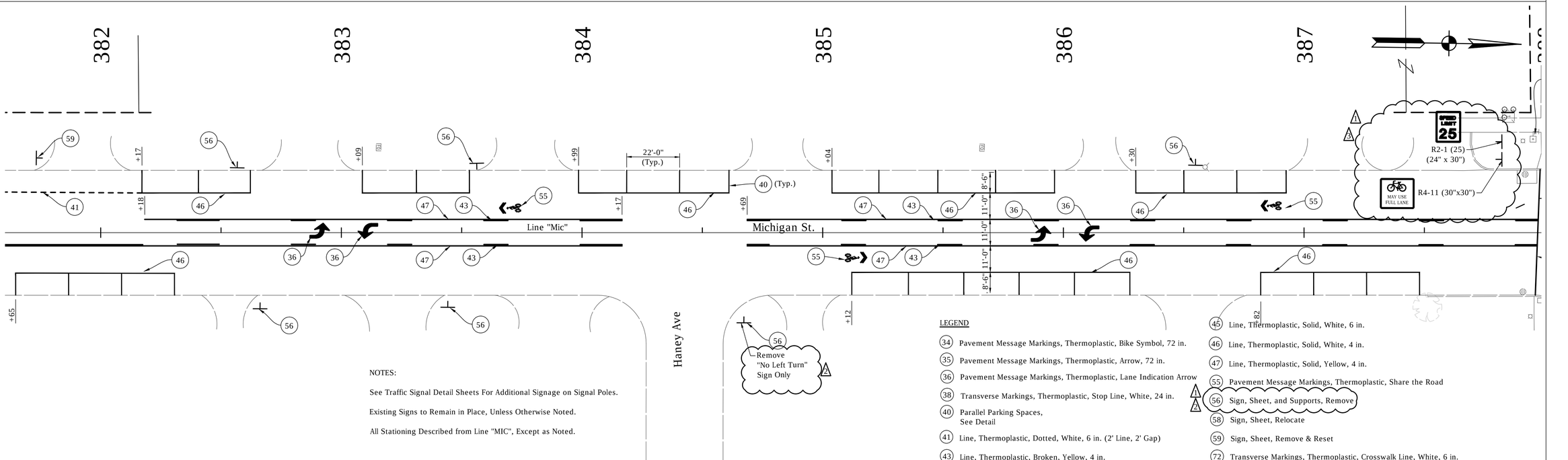
PLOTTED BY...Bob Bowser
DATE.....Feb 15,2016 - 1:50pm





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
2/12/2016	Rev 3: Revise Sign & Bike Lane Symbol & Pavement Markings

HARRY C. FOX REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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\
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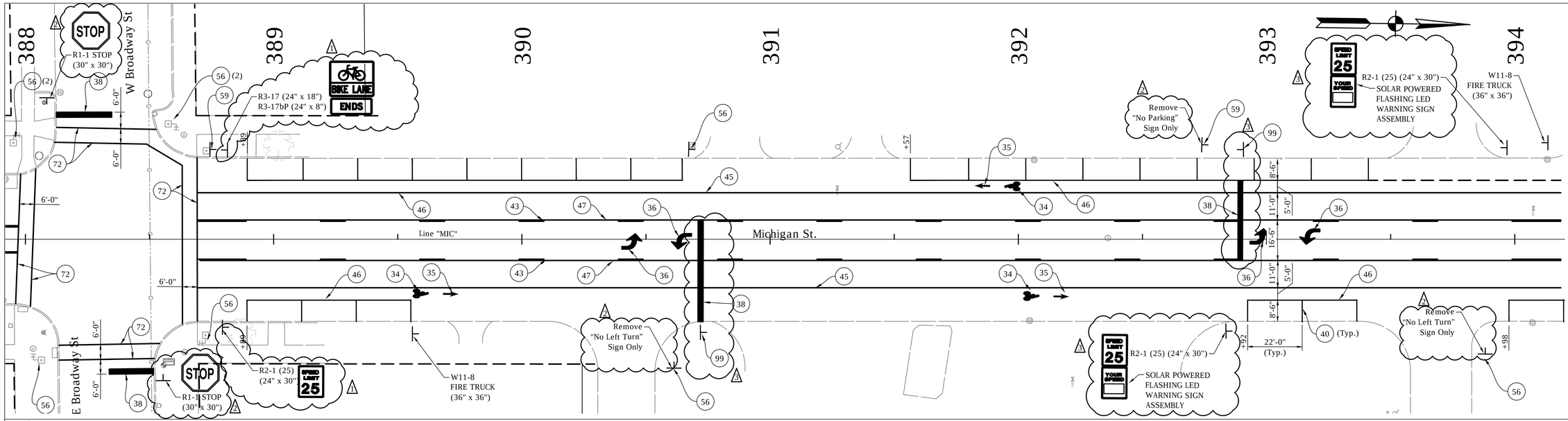
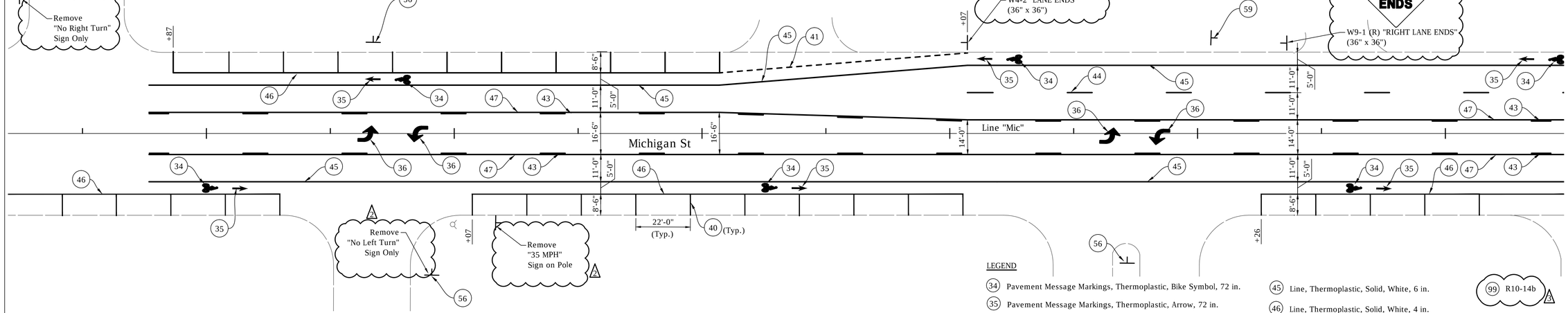
PLOTTED BY..BRD
DATE:.....Feb 15,2016 - 1:51pm





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.
99 R10-14b

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs
1/29/2016	Rev 2: Revise Legend & Add Note to Sign
2/12/2016	Rev 3: Added Stop Bars & Signs & Bike Lane Symbol & Signs

HARRY C. FOX III
REGISTERED
No.
PE19400116
STATE OF
INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: HCF III | DRAWN: BRD

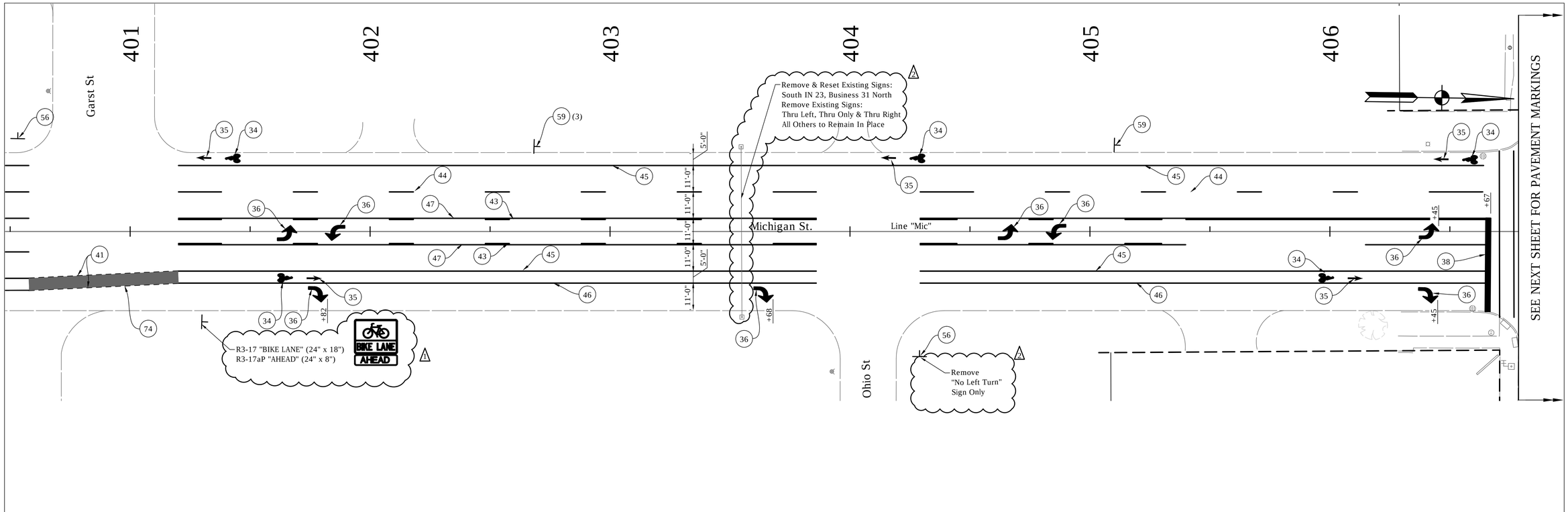
CHECKED: JG | CHECKED: JG

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 st north.dwg
DISCIPLINE....TRAFFIC
PLOTTED BY....Bruce Dunn
DATE.....Feb 15,2016 — 1:51pm



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 (1, 2)
(58) Sign, Sheet, Relocate
(59) Sign, Sheet, Remove & Reset
(72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.
(74) Pavement Marking, Thermoplastic, Solid Green (3)

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Sign
1/29/2016	Rev 2: Revise Legend & Add Note to Sign
2/12/2016	Rev 3: Revise Bike Lane Symbol

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ 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)

DIRECTORY...F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM North\
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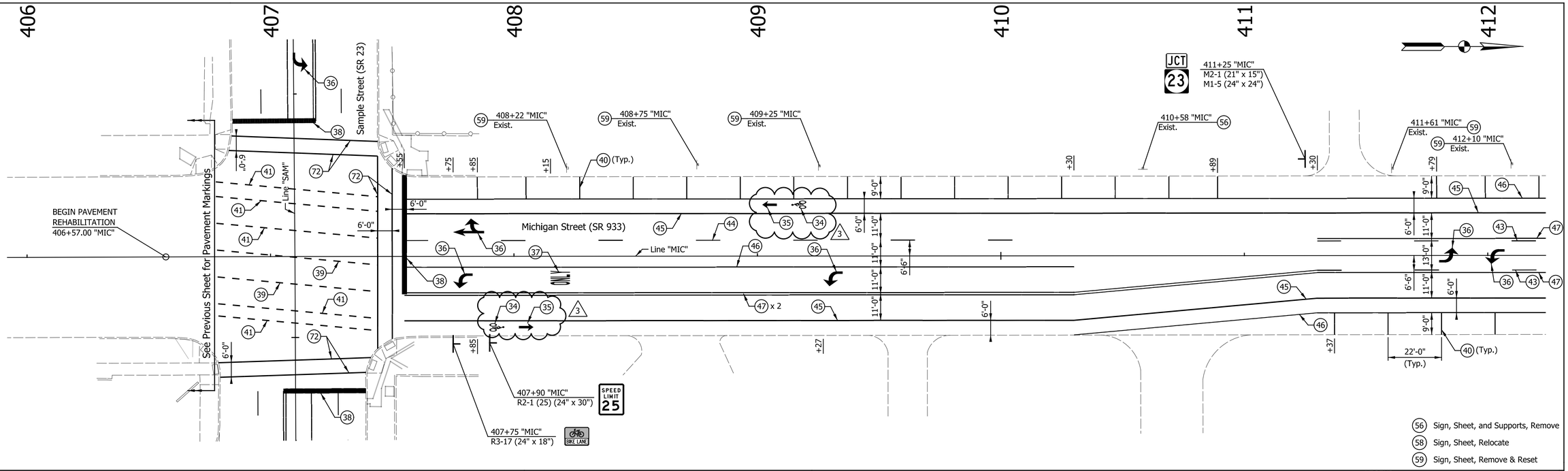
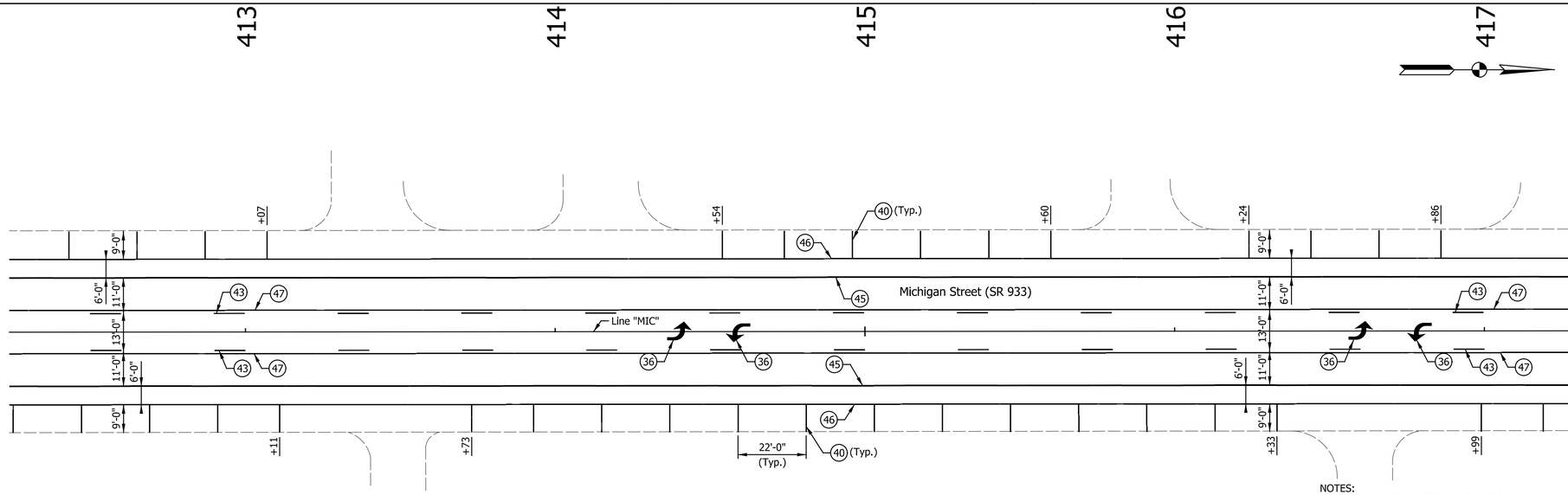
DIMSCALE.....1"DSCALE...1
PLOTTED BY...Brad Bowers
DATE.....Feb 15,2016 - 1:51pm





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, Mulit-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.
- 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.
- 39 Line, Thermoplastic, Dotted, Yellow, 6 in. (3' Line, 3' Gap)

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

Existing Signs to Remain in Place, Unless Otherwise Noted.

See Sheets 205-206 for Sample Street Markings.

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

DATE	REVISION
2/12/2016	REV 3: Revised Bike Lane Marking

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

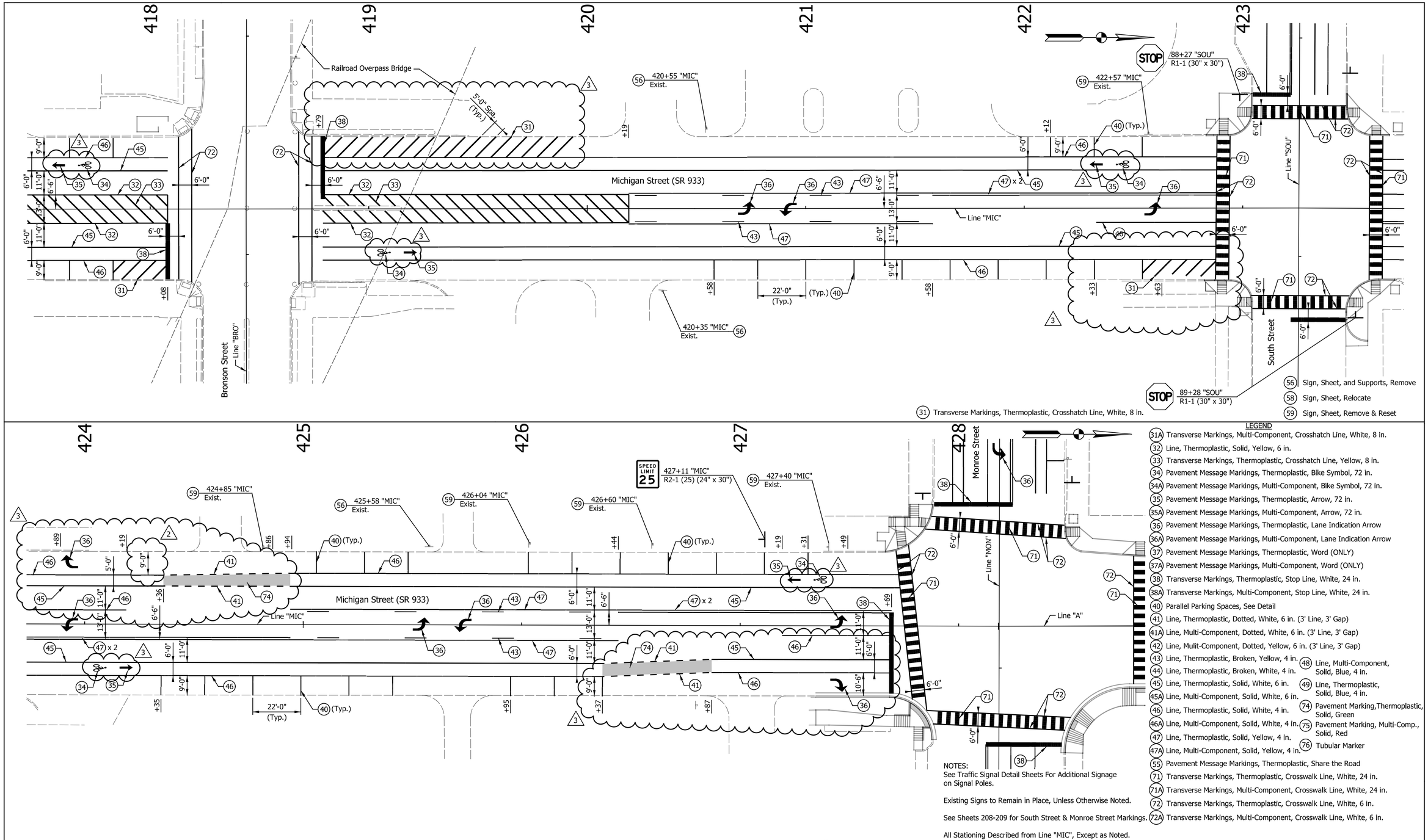
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	200 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)



31 Transverse Markings, Thermoplastic, Crosshatch Line, White, 8 in.

56 Sign, Sheet, and Supports, Remove
58 Sign, Sheet, Relocate
59 Sign, Sheet, Remove & Reset

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.
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 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
2/12/2016	REV 3: Revised Bike Lane Marking

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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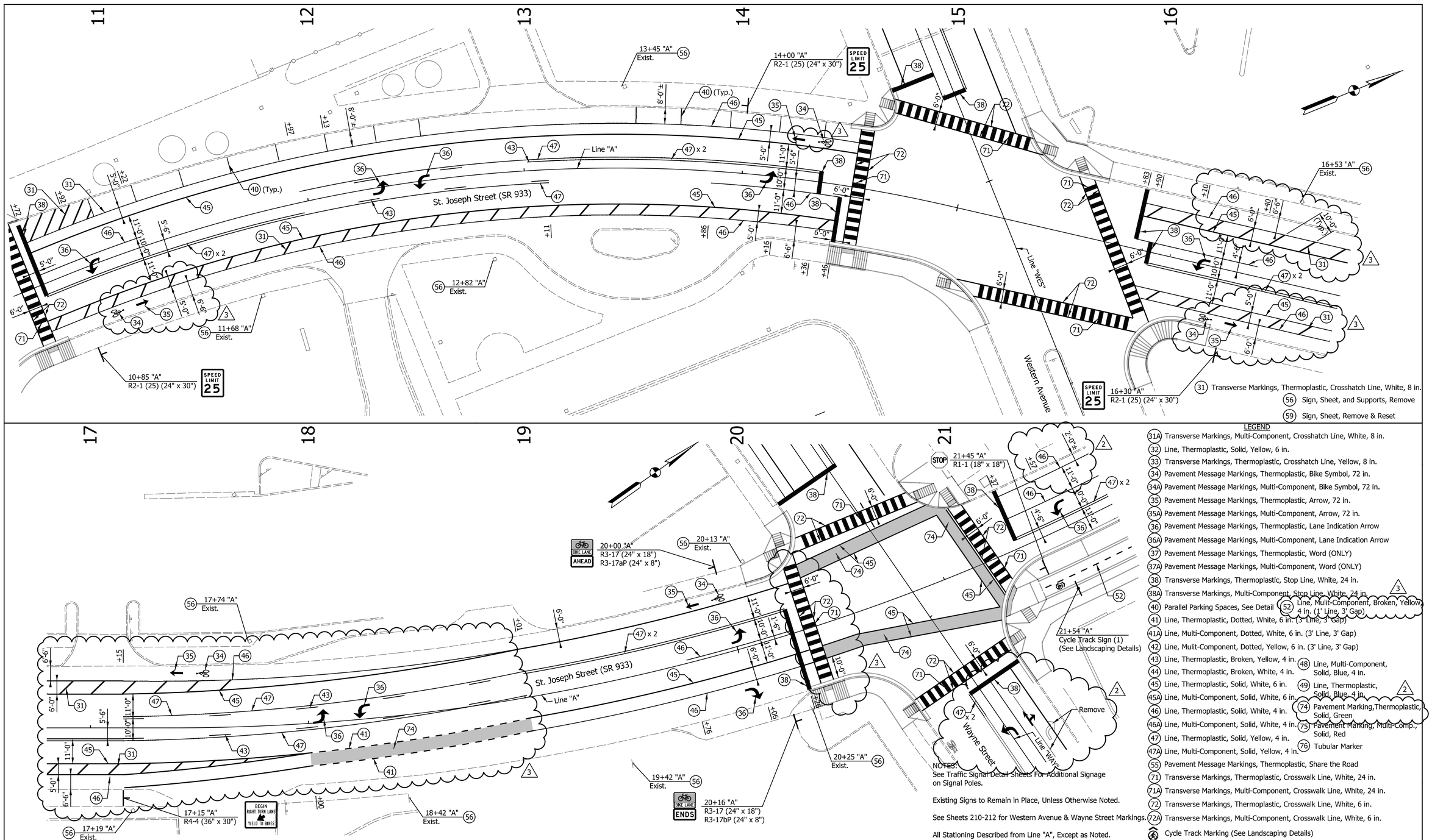

NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

Existing Signs to Remain in Place, Unless Otherwise Noted.

See Sheets 210-212 for Western Avenue & Wayne Street Markings.

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

LEGEND

- (31) Transverse Markings, Thermoplastic, Crosshatch Line, White, 8 in.
- (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 3
- (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, Mulit-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.
- (52) Line, Mulit-Component, Broken, Yellow, 4 in. (1' Line, 3' Gap)
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove
- (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
- (75) Pavement Marking, Multi-Comp., Solid, Red
- (76) Tubular Marker
- Cycle Track Marking (See Landscaping Details)

DATE	REVISION
1/29/2016	REV 2: Revised Lane Configuration
2/12/2016	REV 3: Revised Crosswalks & Bike Lane Markings

PATRICK K. WOOLEY REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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	202 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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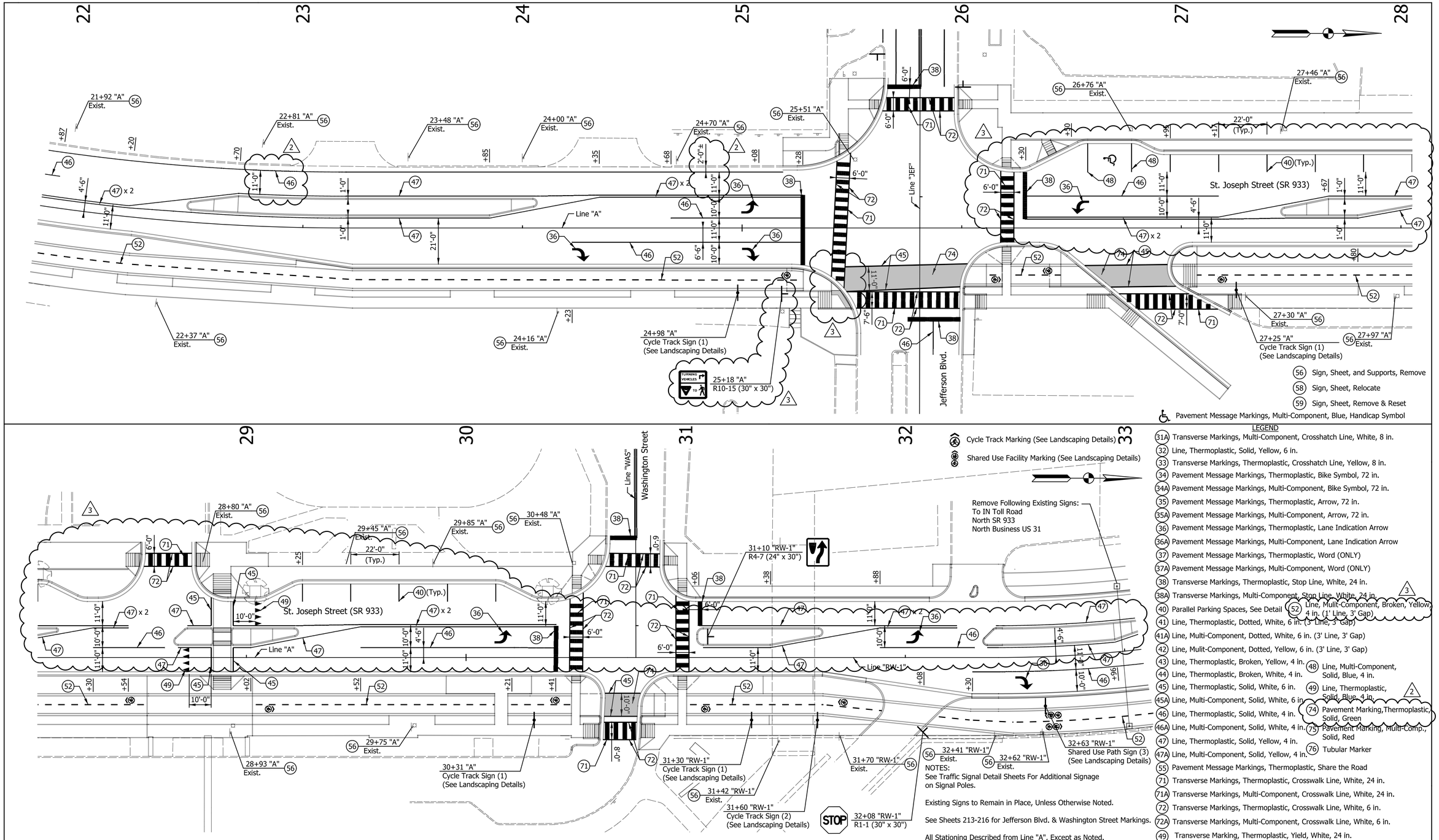

LEGEND

- 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 3
- 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, Mulit-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.
- 52 Line, Mulit-Component, Broken, Yellow, 4 in. (1' Line, 3' Gap) 3
- 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 2
- 75 Pavement Marking, Multi-Comp., Solid, Red
- 76 Tubular Marker
- 49 Transverse Marking, Thermoplastic, Yield, White, 24 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 "A", Except as Noted.

DATE	REVISION
1/29/2016	REV 2: Revised Markings
2/12/2016	REV 3: Revised Crosswalks, Added Left Turn Lanes, & Added Sign

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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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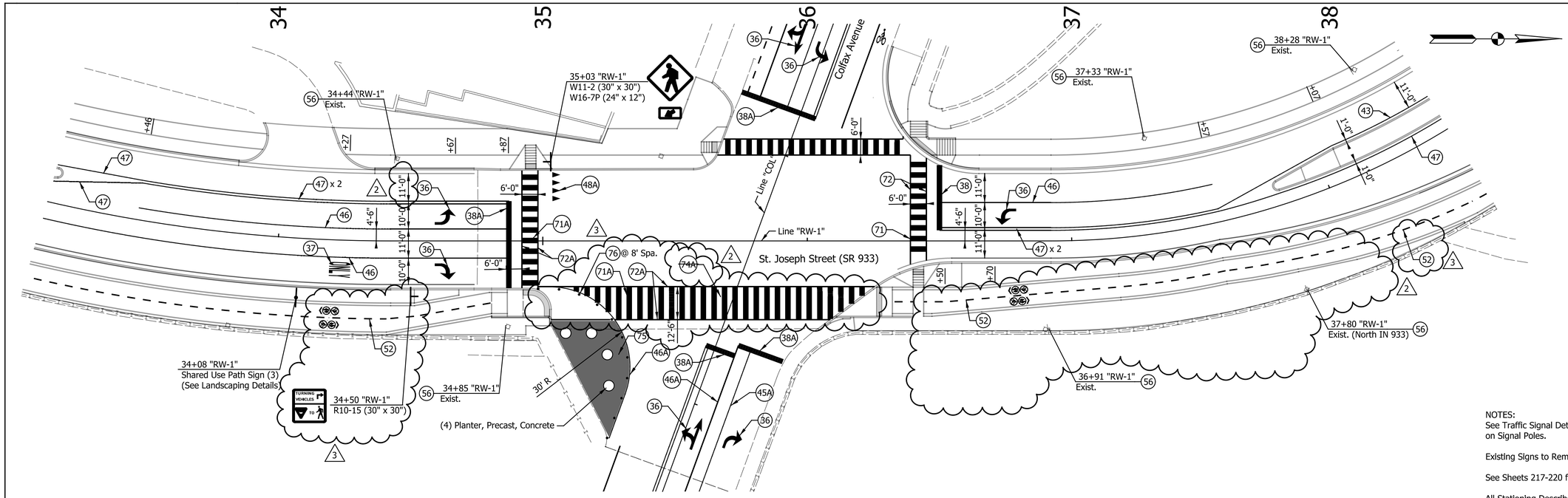

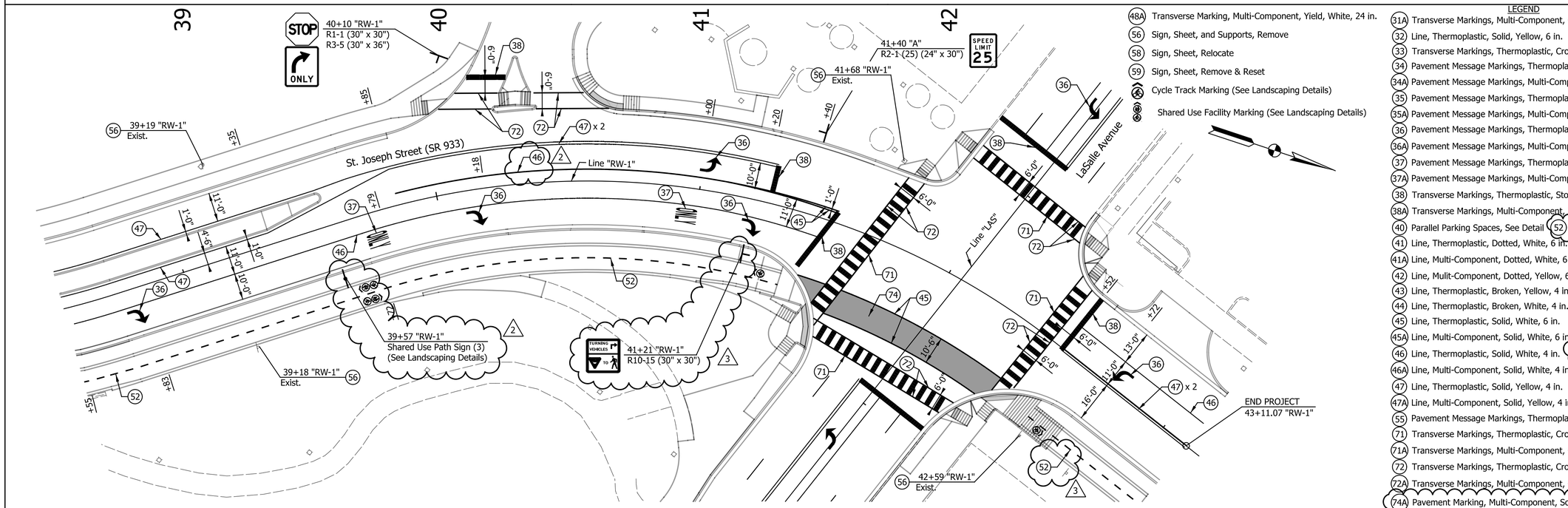

NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

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
- Cycle Track Marking (See Landscaping Details)
- 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.
- (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.
- (52) Line, Mulit-Component, Broken, Yellow, 4 in. (1' Line, 3' Gap)
- (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 Markings
2/12/2016	REV 3: Revised Crosswalks & Added Signs

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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	204 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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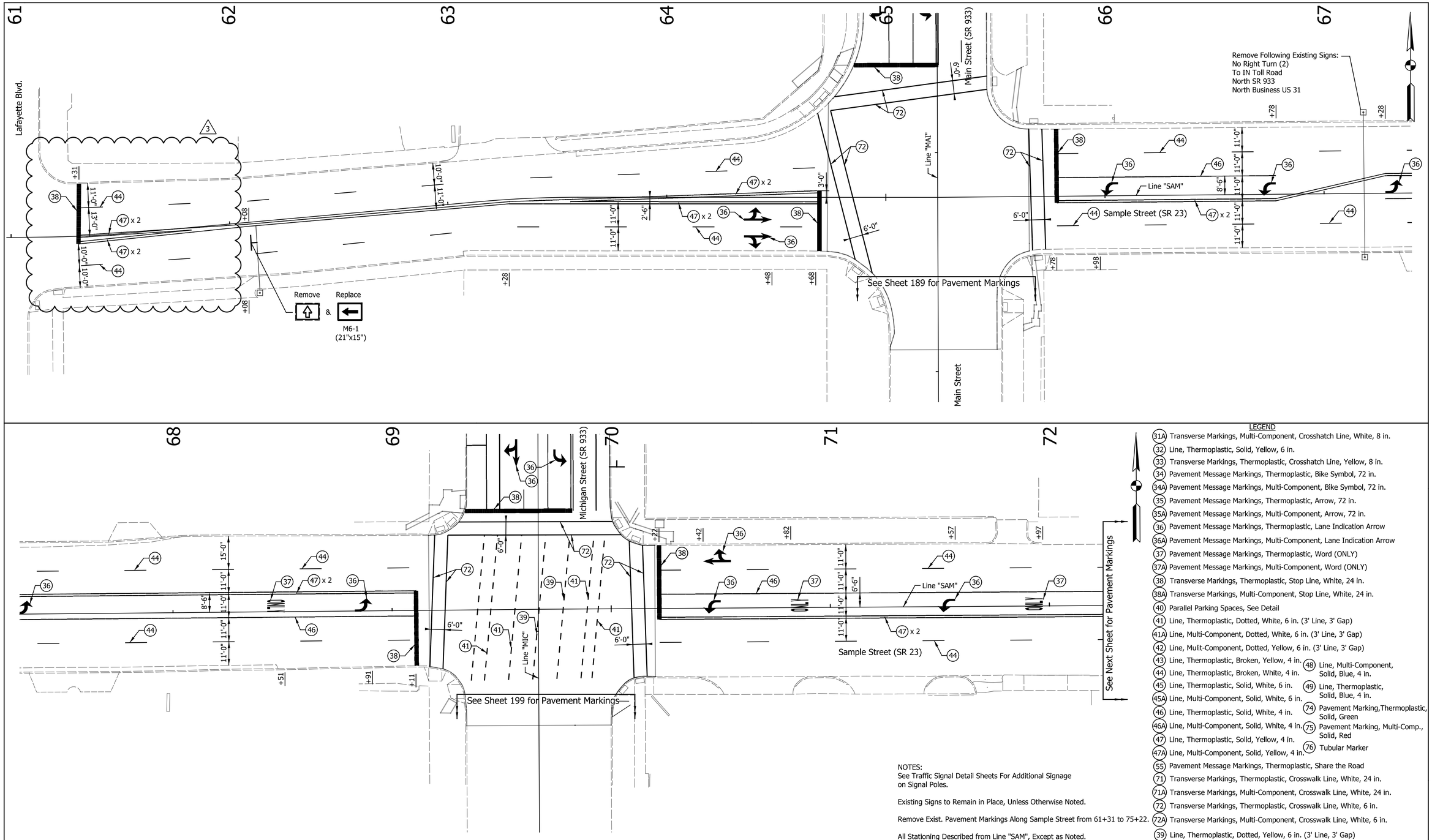


LEGEND

- (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, Mulit-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.
- (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.
- (39) Line, Thermoplastic, Dotted, Yellow, 6 in. (3' Line, 3' Gap)

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 Sample Street from 61+31 to 75+22.

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

DATE	REVISION
2/12/2016	REV 3: Revised Lane Markings

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

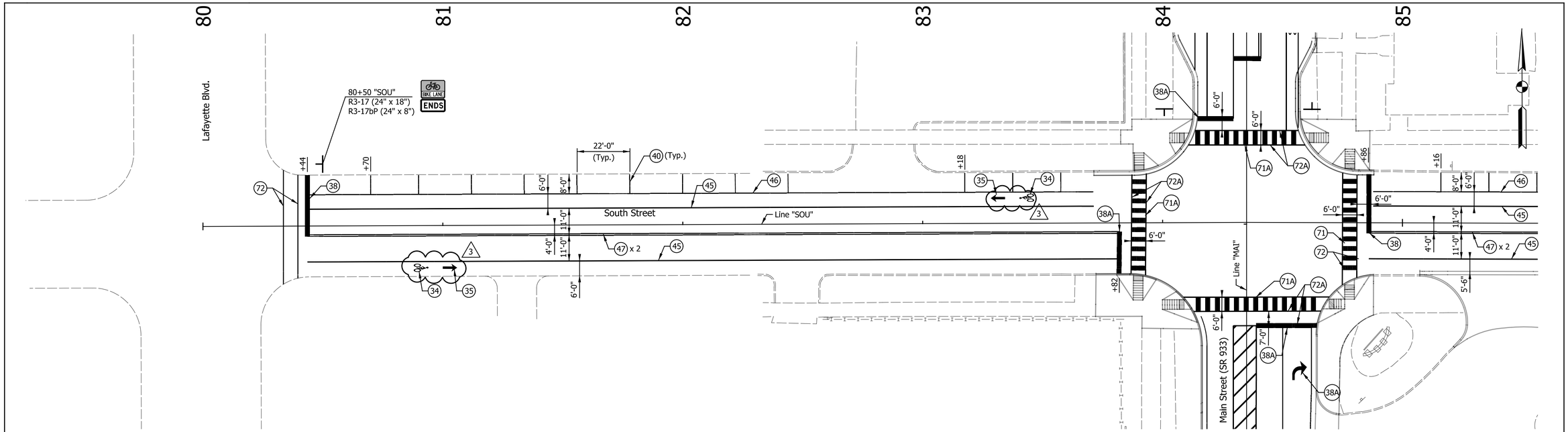
DESIGNED: MRR DRAWN: JRG

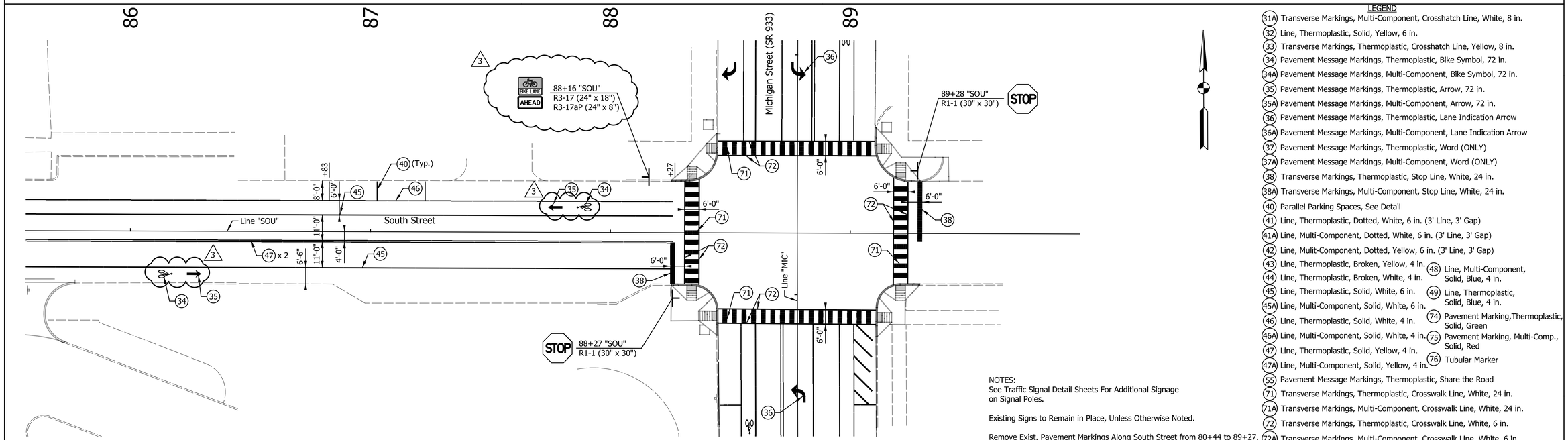
CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
SAMPLE STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	205 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, Mulit-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.
- (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.

Remove Exist. Pavement Markings Along South Street from 80+44 to 89+27.

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

DATE	REVISION
2/12/2016	REV 3: Revised Bike Lane Marking & Sign

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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 SOUTH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	208 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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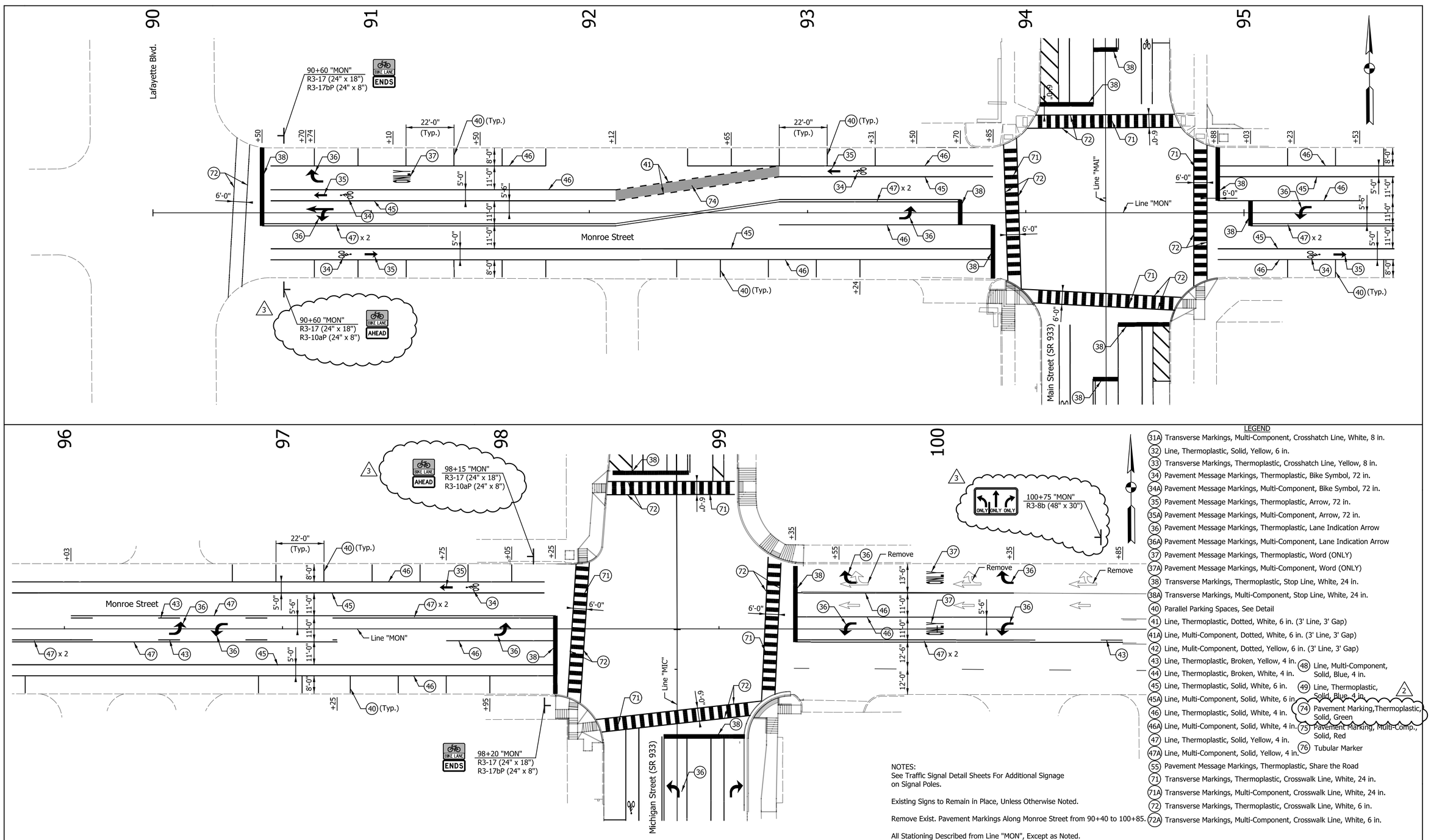

LEGEND

- 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.
- 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

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
2/12/2016	REV 3: Changed Signs

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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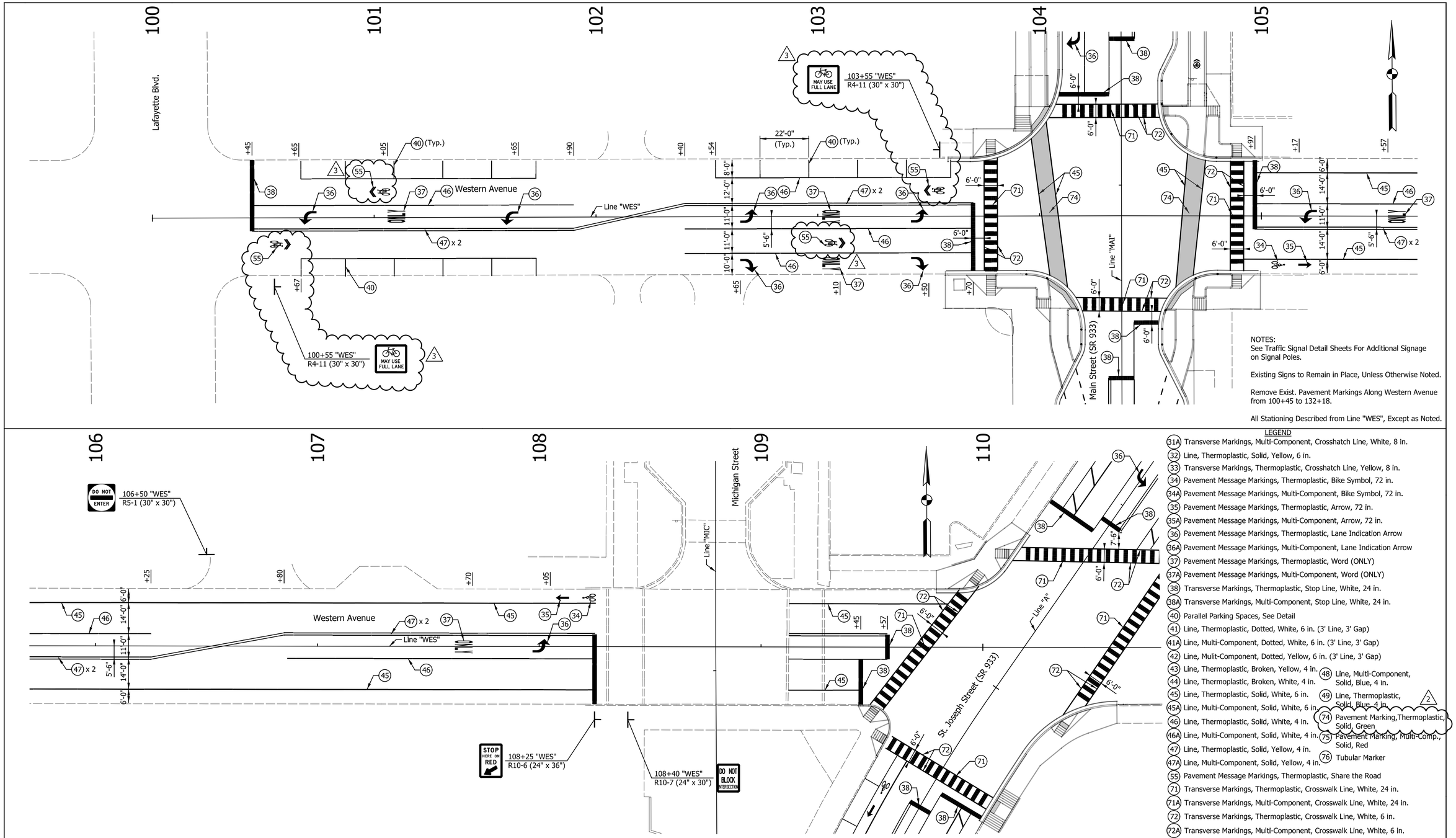

NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

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, Mulit-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.
- (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.

DATE	REVISION
1/29/2016	REV 2: Revised Legend
2/12/2016	REV 3: Added Signs & Shared Markings

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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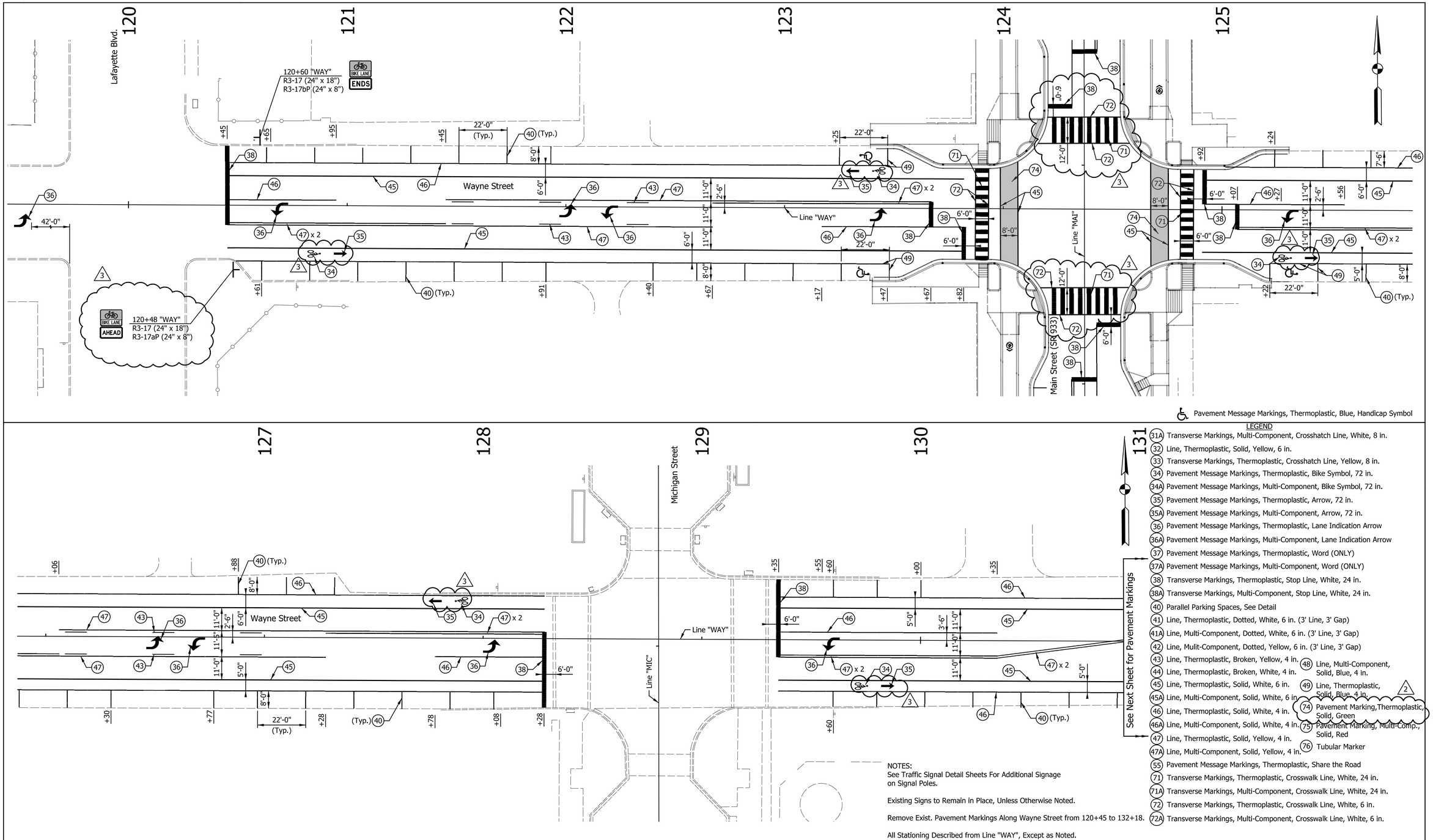

LEGEND

- (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, Mulit-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

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
2/12/2016	REV 3: Revised Crosswalk & Bike Lane Marking & Changed R3-17aP sign

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
WAYNE STREET

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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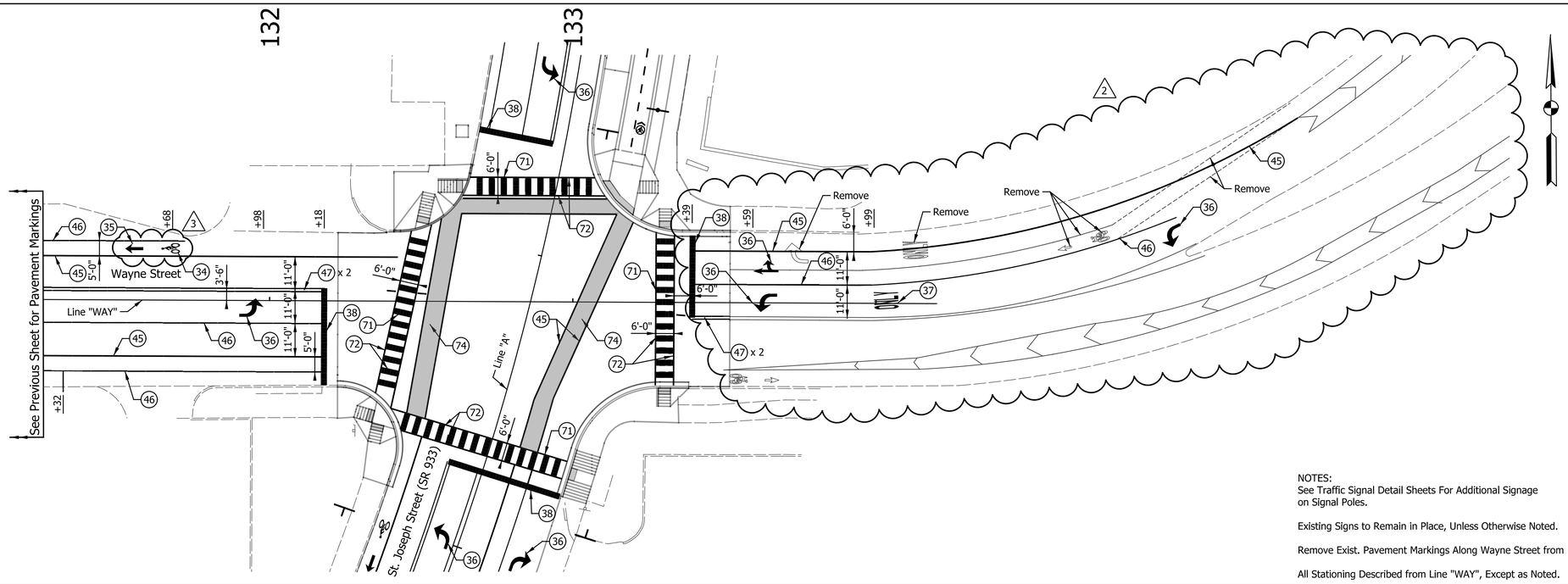


NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

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, Mulit-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.
(39) Line, Thermoplastic, Dotted, Yellow, 6 in. (3' Line, 3' Gap)

(2) (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
2/12/2016	REV 3: Revised Crosswalk & Bike Lane Marking

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

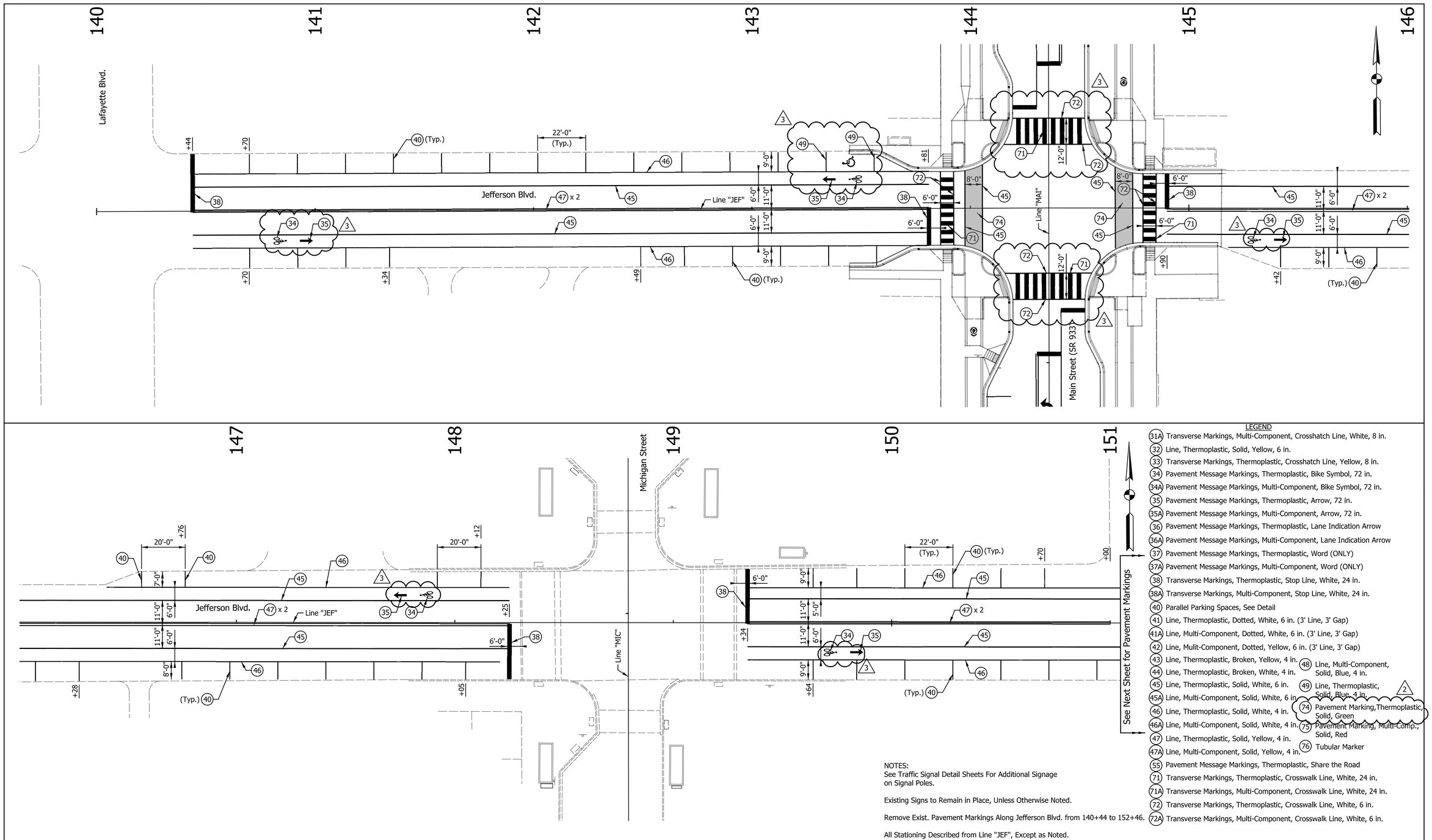
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

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

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
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)



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, Mulit-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.
- (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.

DATE	REVISION
1/29/2016	REV 2: Revised Legend
2/12/2016	REV 3: Revised Crosswalk & Bike Lane Marking

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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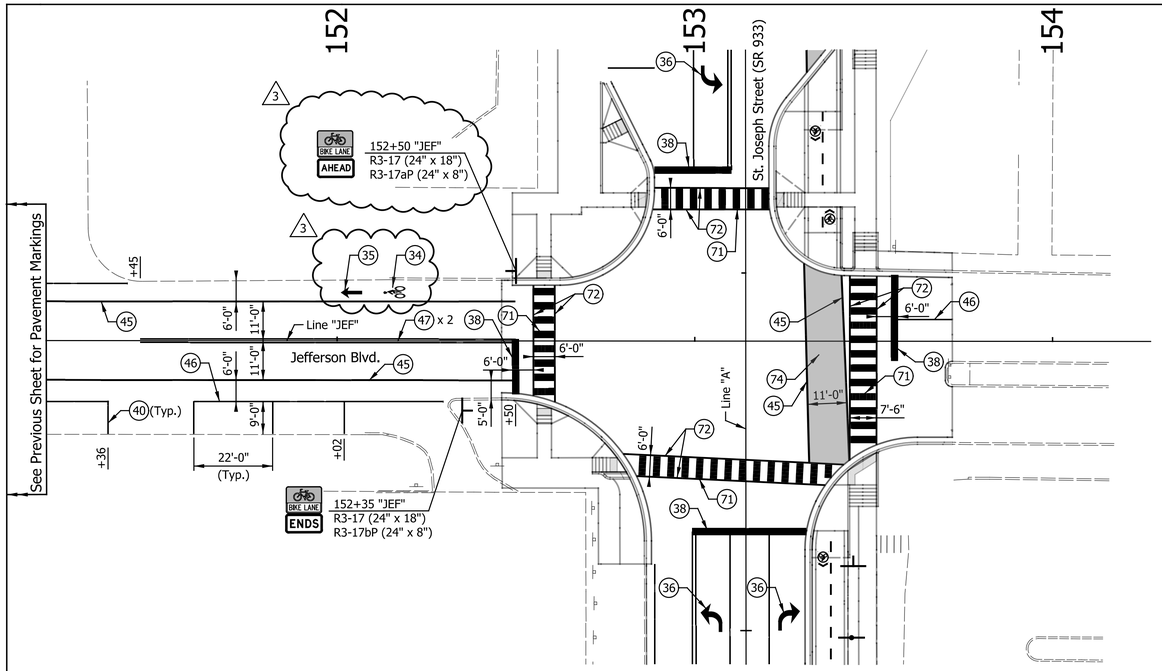


NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

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, Mulit-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
2/12/2016	REV 3: Revised Bike Lane Marking & Sign

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

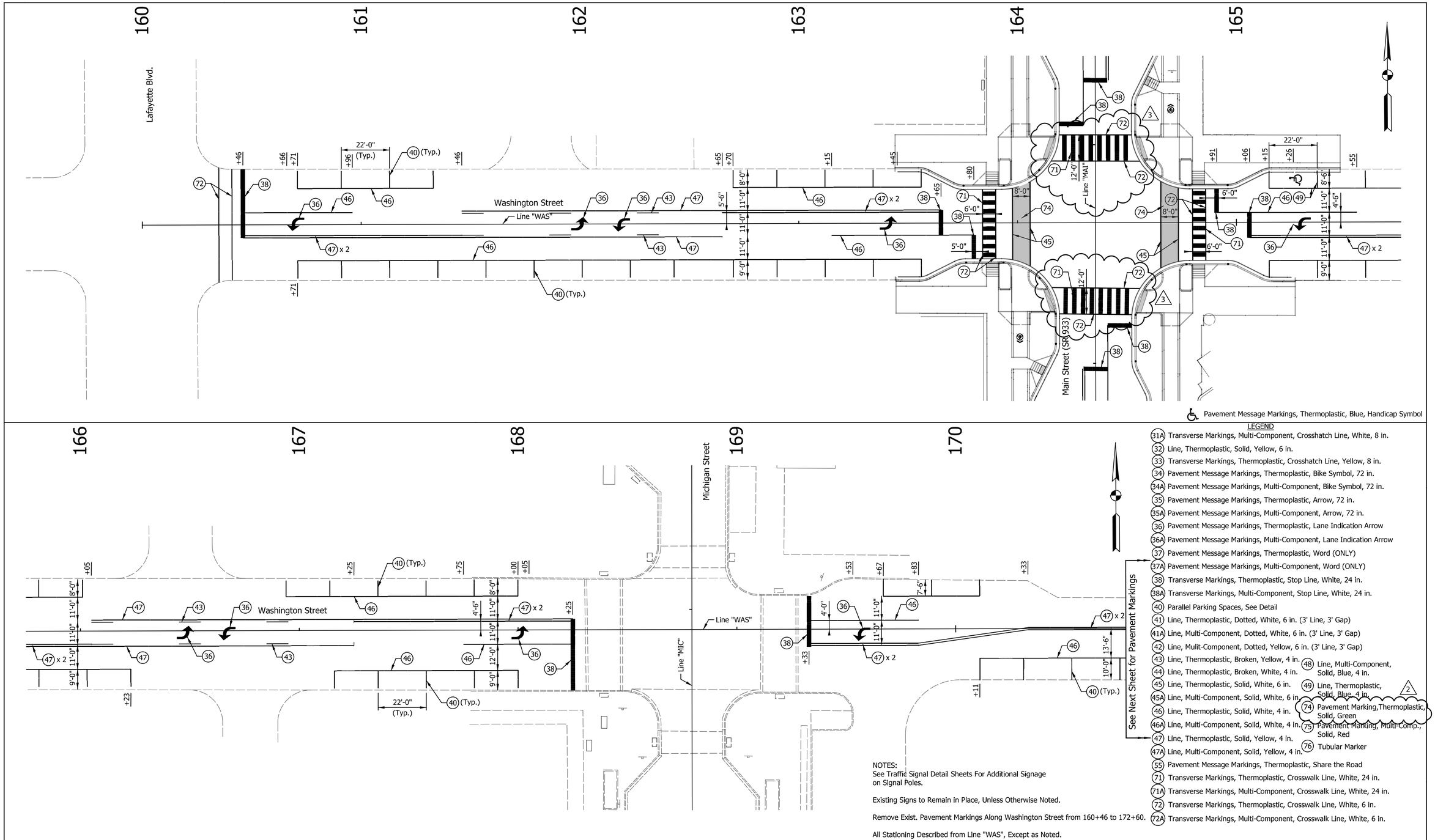
DESIGNED: MRR | DRAWN: JRG

CHECKED: PKW | CHECKED: PKW

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
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)



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, Mulit-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

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.

DATE	REVISION
1/29/2016	REV 2: Revised Legend
2/12/2016	REV 3: Revised Crosswalk

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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)

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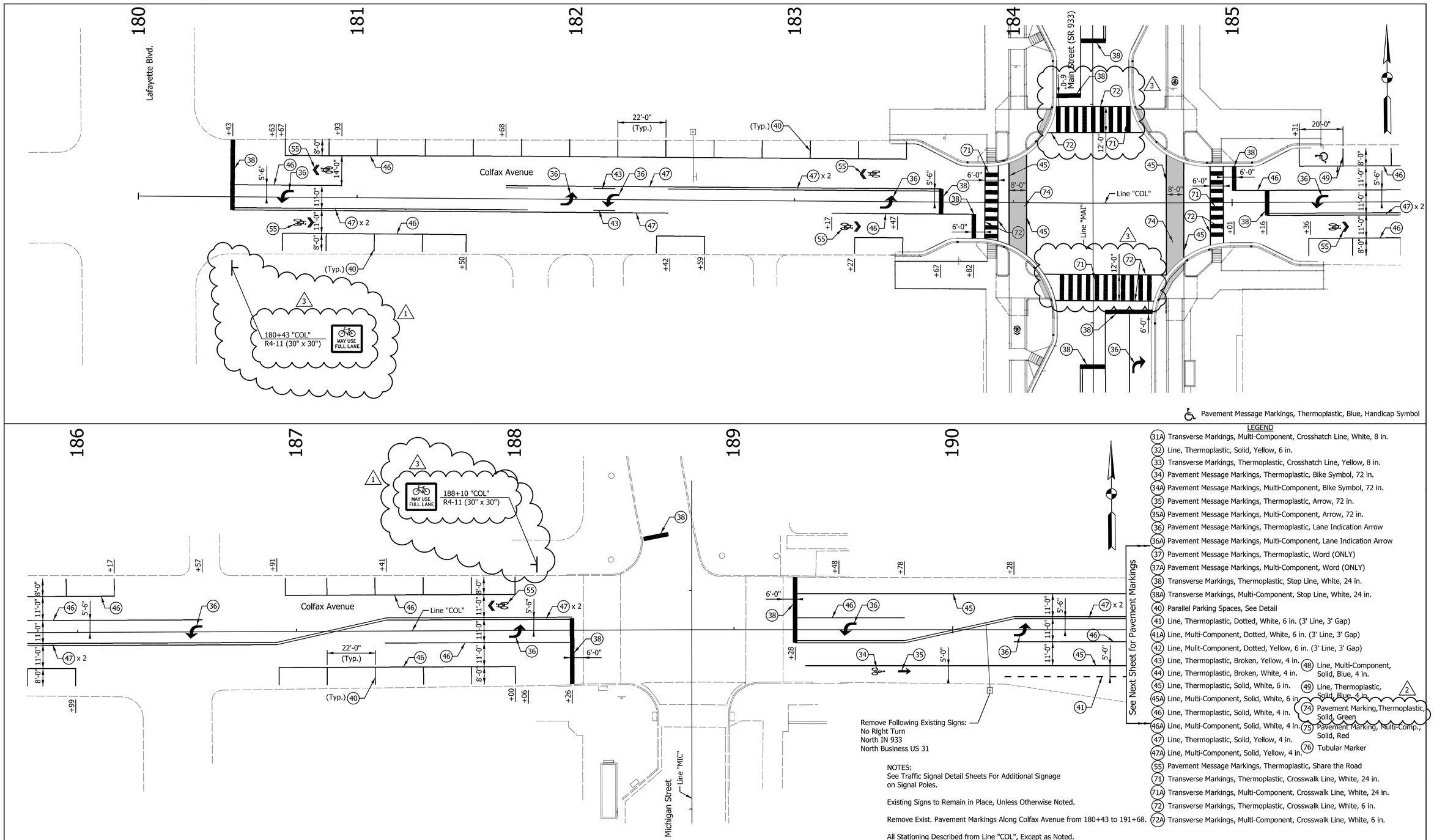

Pavement Message Markings, Thermoplastic, Blue, Handicap Symbol

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, Mulit-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

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
2/10/2016	REV 3: Revised Sign & Crosswalk

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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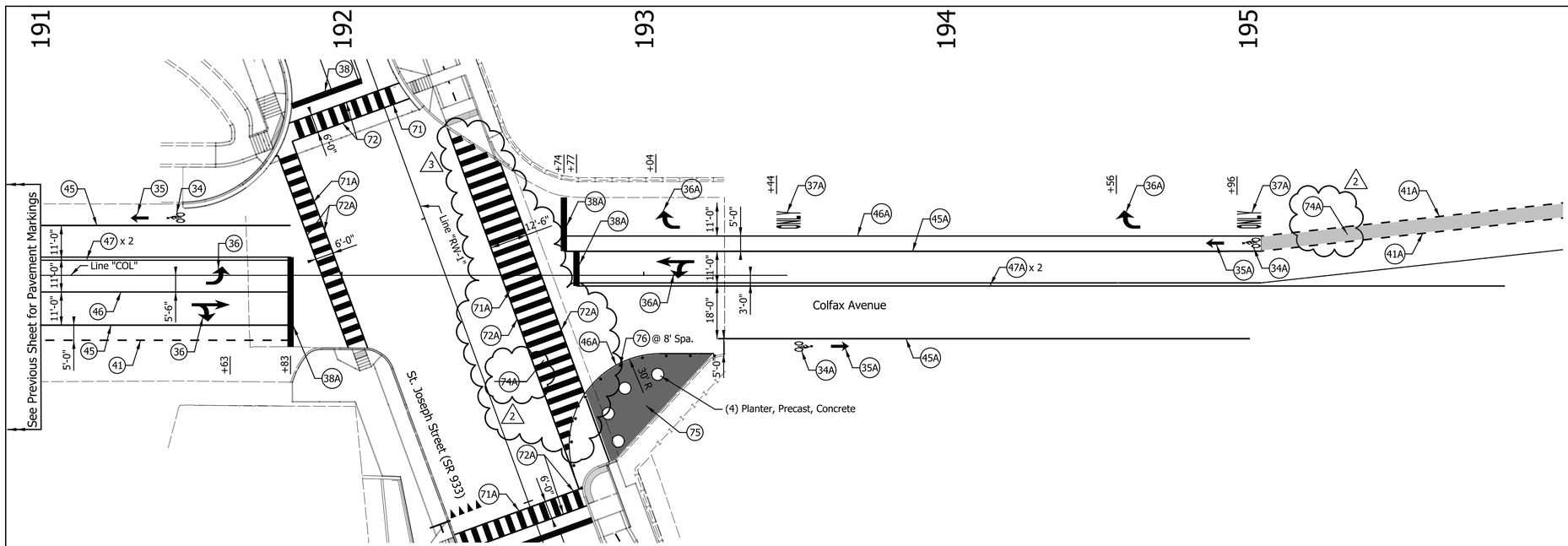

NOTES:
See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.

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, Mulit-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 (2)
- (74A) Pavement Marking, Multi-Component, Solid, Green (2)
- (75) Pavement Marking, Multi-Comp., Solid, Red
- (76) Tubular Marker

DATE	REVISION
1/29/2016	REV 2: Revised Legend
2/12/2016	REV 3: Revised Crosswalk

PATRICK R. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

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
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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SHEET SIGN & POST SUMMARY

SIGN												
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			SQUARE 2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR POST LENGTH (FT)			SQUARE 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	TOTAL
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						9.5	9.5
MAI	688+25	R1-1	30 x 30	6.3						9.5	9.5
MAI	688+45	R2-1 (25)	24 x 30	5.0						9.5	9.5
MAI	692+34	SP-1									
MAI	692+55	SP-1									
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	R4-11	30 x 30	6.3						9.5	9.5
MIC	366+90	R2-1 (25)	24 x 30	5.0						9.5	9.5
MIC	366+90	R4-11	30 x 30	6.3						9.5	9.5
~~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	R4-11	30 x 30	6.3						9.5	9.5
MIC	380+15	R2-1 (25)	24 x 30	5.0						9.5	9.5
MIC	380+15	R4-11	30 x 30	6.3						9.5	9.5
MIC	381+39	R2-1 (25)	24 x 30	5.0						9.5	9.5
MIC	381+39	R4-11	30 x 30	6.3						9.5	9.5
MIC	387+90	R2-1 (25)	24 x 30	5.0						9.5	9.5
MIC	387+90	R4-11	30 x 30	6.3						9.5	9.5
MIC	388+10	R1-1	30 x 30	6.3						9.5	9.5
MIC	388+60	R1-1	30 x 30	6.3						9.5	9.5
MIC	388+85	R2-1 (25)	24 x 30	5.0						9.5	9.5
SUBTOTALS				138.0							237.5

SHEET SIGN & POST SUMMARY

SIGN												
LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			SQUARE 2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR POST LENGTH (FT)			SQUARE 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	TOTAL
MIC	388+85	R3-17	24 x 18	3.0						9.5	9.5
		R3-17bP	24 x 8	2.0							
MIC	389+50	W11-8	36 x 36		9.0					10	10
MIC	390+70	R10-14b									
MIC	392+90	SP-1									
MIC	392+83	R10-14b									
MIC	393+99	SP-1									
MIC	394+05	W11-8	36 x 36		9.0					10	10
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	36.0						68.5
TOTALS				149.0	36.0						306.0

DATE	REVISION
1/29/2016	Rev 2: Add Sheet
2/12/2016	Rev 3: Add Sign and Remove Sign

HARRY C. FOX III REGISTERED No. PE19400116 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 01/07/2016 DATE

DESIGNED: HCF III | DRAWN: BRD

CHECKED: JG | CHECKED: JG

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)

DIRECTORY....F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\TABLES\
FILE.....15-3329 north sign sheet.dwg
DISSCIPLINE.....TRSCALE....20
PLOTTED BY.....Brad Dick
DATE.....Feb 15,2016 - 1:51pm

SHEET SIGN & POST SUMMARY

SIGN											
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)			SQUARE 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	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 (2)	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

SIGN											
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)			SQUARE 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	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	25+18 (3)	R10-15	30 x 30	6.3						9.5	9.5
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	34+50 (3)	R10-15	30 x 30	6.3						9.5	9.5
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 (2)									
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+21 (3)	R10-15	30 x 30	6.3						9.5	9.5
RW-1	41+40	R2-1 (25)	24 x 30	5.0						9.5	9.5
TOTALS				102.1 (3)	7.5						182.7 (3)

DATE	REVISION
1/29/2016	REV 2: Revised Sign Location
2/12/2016	REV 3: Signs Added

PATRICK K. WOOLER REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ 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)

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SHEET SIGN & POST SUMMARY

SIGN												
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)			SQUARE 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	TOTAL
SAM	62+08	M6-1	21 x 15	2.2						Attach to OH Mast Arm	
SOU	80+50	R3-17	24 x 18	3.0						9.2	9.2
		R3-17bP	24 x 8	1.3							
SOU	88+16	R3-17	24 x 18	3.0						9.5	9.5
		R3-17aP	24 x 8	1.3							
SOU	88+27	R1-1	30 x 30	6.3						9.5	9.5
SOU	89+28	R1-1	30 x 30	6.3						9.5	9.5
MON	90+60	R3-17	24 x 18	3.0						9.2	9.2
		R3-17bP	24 x 8	1.3							
MON	90+60	R3-17	24 x 18	3.0						9.5	9.5
		R3-17aP	24 x 8	1.3							
MON	98+15	R3-17	24 x 18	3.0						9.5	9.5
		R3-17aP	24 x 8	1.3							
MON	98+20	R3-17	24 x 18	3.0						9.2	9.2
		R3-17bP	24 x 8	1.3							
MON	100+75	R3-8b	48 x 30		10.0					9.5	9.5
WES	106+50	R5-1	30 x 30	6.3						9.5	9.5
WES	108+25	R10-6	24 x 36	6.0						10	10
WES	108+40	R10-7	24 x 30	5.0						9.5	9.5
WAY	120+48	R3-17	24 x 18	3.0						9.5	9.5
		R3-17aP	24 x 8	1.3							
WAY	120+60	R3-17	24 x 18	3.0						9.2	9.2
		R3-17bP	24 x 8	1.3							
JEF	152+35	R3-17	24 x 18	3.0						9.2	9.2
		R3-17bP	24 x 8	1.3							
JEF	152+50	R3-17	24 x 18	3.0						9.5	9.5
		R3-17aP	24 x 8	1.3							
COL	180+43	R4-11	30 x 30	6.3						9.5	9.5
COL	188+10	R4-11	30 x 30	6.3						9.5	9.5
LAS	201+95	W9-2	36 x 36		9.0					10.0	10.0
LAS	211+80	M6-1	21 x 15	2.2						Attach to OH Mast Arm	
		M6-1	21 x 15	2.2						Attach to OH Mast Arm	
WES	100+55	R4-11	30 x 30	6.3						9.5	9.5
WES	103+55	R4-11	30 x 30	6.3						9.5	9.5
TOTALS				104.9	19.0						199.0

DATE	REVISION
1/15/2016	REV 1: Added Signs & Revised Totals
2/12/2016	REV 3: Revised Sign & Totals

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — 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	223 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE		DESCRIPTION	LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET			MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM											SUMP DEPTH	GEOTEXTILE	RIPRAP														
					FT	IN	PIPE TYPE		LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
Line "MAI"																																							
86	717+76.4		x					Existing Manhole																															Casting, Adjust to Grade	
87	717+77.0		x					Catch Basin B-15				Ex. (~713.90)																											Remove Existing Inlet & 7 LFT of Pipe	719.95
88	717+77.7	x						Catch Basin B-15				Ex. (~713.53)																													719.93
89	717+78.0	x						Existing Inlet																															Casting, Furnish Type "2" & Adj. to Grade	
90	718+33.3	x						Catch Basin B-15				Ex. (~714.35)																											Remove Existing Inlet & 3 LFT of Pipe	718.67
91	718+33.6		x					Catch Basin B-15				Ex. (~716.18)																											Remove Exist. Inlet	718.74
92	719+33.0	x						Catch Basin B-15				Ex. (~713.60)																											Remove Existing Inlet & 6 LFT of Pipe	716.92
93	719+33.0		x					Existing Inlet																															Casting, Furnish Type "2" & Adj. to Grade	
94	719+39.8		x					Catch Basin B-15				Ex. (~713.13)																											Remove Existing Inlet & 10 LFT of Pipe	716.83
95	719+42.0		x					Existing Manhole																															Casting, Adjust to Grade	
96	720+72.4	x						Catch Basin B-15				Ex. (~713.27)																											Remove Existing Inlet & 6 LFT of Pipe	716.04
97	720+72.4		x					Existing Inlet																															Casting, Furnish Type "2" & Adj. to Grade	
98	720+76.1		x					Catch Basin B-15				Ex. (~712.66)																											Remove Existing Inlet & 8 LFT of Pipe	716.06
99	720+77.4		x					Existing Manhole																															Casting, Adjust to Grade	
100	722+49.7	x				12	2	Catch Basin B-15	9		1.8	716.20	716.10	75	N/A	7.0	1	3.2	1																			101		719.99
101	722+51.5	x						Existing Inlet				Ex. (~716.10)																											Casting, Furnish Type "2" & Adj. to Grade	
102	722+52.5		x					Existing Inlet																															Casting, Adjust to Grade	
103	722+79.0	x						Catch Basin C-15				Ex. (~715.43)																													719.82
104	723+20.4	x						Catch Basin K-10				Ex. (~714.40)																											Remove Existing Inlet	719.85
105	723+38.9		x					Existing Manhole																															Casting, Adjust to Grade	
106	727+45.8		x		36.3	12	2	Manhole C-4	6		1.5	715.28	715.00	75	N/A	7.0	1	1.8	1																			107		718.78
107	727+55.3		x		39.0			Manhole C-4																																	718.50
108	731+98.6		x			12	2	Catch Basin K-10	58		1.0	710.50	709.90	75	N/A	7.0	1	15.4	1																			112		713.50
109	731+98.7	x				12	2	Catch Basin K-10	57		0.8	710.98	710.31	75	N/A	7.0	1	16.1	1																			111		713.80
110	732+41.2	x						Existing Inlet																															Remove Exist. Structure & Exist. Pipe	
111	732+59.6	x			21.7			Manhole C-4				Ex. (~710.30)																											Remove Exist. Structure, Tie Into Exist. Pipe	713.40
111A	732+58.9	x				12	2	Catch Basin K-10	9		1.0	710.37	710.31	75	N/A	7.0	1	2.7	1																			111		713.40
112	732+59.8		x					Manhole C-4				Ex. (~709.80)																											Remove Exist. Structure	713.10
112A	732+58.9		x			12	2	Catch Basin K-10	9		1.0	709.98	709.90	75	N/A	7.0	1	4.2	1																			112		712.98
112B																																					Structure Deleted	
113	732+61.8	x						Existing Inlet																															Remove Exist. Structure & Exist. Pipe	
114	733+10.8	x						Existing Inlet																															Remove Exist. Structure	

DATE	REVISION
2/12/2016	REV 3: Added Rim Elevations.

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	231 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE CLASS A FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM							FLOWABLE BACKFILL					SUMP DEPTH	GEOTEXTILE	RIPRAP													
					FT	IN			LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
Line "MAI"																																							
115	733+11.1	x				12	2	Catch Basin K-10	36		1.0	710.02	709.70	75	N/A	7.0	1	10.4	1																			116		713.03
116	733+13.4	x			30.7			Manhole C-4				Ex. (~709.40)																										Remove Exist. Structure, Tie Into Exist. Pipe	712.72
117	733+42.6	x				12	2	Catch Basin K-10	27		0.5	709.54	709.40	75	N/A	7.0	1	8.3	1																			116		711.81
118	736+96.7	x				12	2	Catch Basin K-10	76		0.5	706.48	705.95	75	N/A	7.0	1	22.5	1															48						125		708.98
119	736+79.7		x			12	2	Catch Basin K-10	90		1.5	705.50	704.70	75	N/A	7.0	1	24.2	1															48						124		709.02
120	737+21.2		x					Existing Inlet																																Remove Exist. Structure and Cap Exist. Pipe	
121	737+30.6	x						Existing Inlet																																Remove Exist. Structure & Exist. Pipe	
122	737+51.6	x						Existing Inlet																																Casting, Furnish Type "10" & Adj. to Grade	
123	737+55.7		x					Existing Inlet																																Remove Exist. Structure & Exist. Pipe	
124	737+72.0		x					Existing Manhole				Ex. (~703.70)																												Casting, Adjust to Grade	
124A	738+06.3		x		16.6	12	2	Manhole C-4	34		2.1	704.94	704.70	75	N/A	7.0	1	15.0	1																			124		709.08
125	737+74.6	x						Existing Manhole																																Casting, Adjust to Grade	
126	738+04.5	x						Existing Inlet																																Remove Exist. Structure & Exist. Pipe	
126A	738+06.1	x				12	2	Catch Basin K-10	31		1.1	705.90	705.65	75	N/A	7.0	1	10.1	1																			125		709.03
127	738+08.2		x					Existing Inlet																																Remove Exist. Structure and Cap Exist. Pipe	
128	738+88.3		x					Existing Inlet																																Remove Exist. Structure and Cap Exist. Pipe	
129	738+90.9		x			12	2	Catch Basin K-10	81		1.5	705.37	704.94	75	N/A	7.0	1	30.0	1																			128		708.83
130	739+40.2		x			12	2	Catch Basin K-10	46		1.1	705.60	705.37	75	N/A	7.0	1	16.4	1																			131		708.75
131	739+47.1		x					Existing Inlet																																Remove Exist. Structure and Cap Exist. Pipe	
132	740+05.1		x			12	2	Catch Basin K-10	61		0.8	705.91	705.60	75	N/A	7.0	1	19.0	1																			133		708.68
133	740+05.6		x					Existing Inlet																																Remove Exist. Structure and Cap Exist. Pipe	
134	740+62.7	x						Existing Inlet																																Remove Exist. Structure & 2 LFT of Pipe	
135	740+62.7	x						Catch Basin K-10				Ex. (~705.34)																												Connect to Exist. Pipe	708.34
136	741+83.0	x				12	2	Catch Basin K-10	61		1.2	704.80	704.31	75	N/A	7.0	1	23.2	1															48						142		708.00
137	741+94.0		x			12	2	Catch Basin K-10	51		0.7	705.30	704.86	75	N/A	7.0	1	15.8	1															48						143		708.01
138	742+21.5	x						Existing Inlet																																Remove Exist. Structure & Exist. Pipe	
139	742+21.8		x					Existing Inlet																																Remove Exist. Structure & Exist. Pipe	
140	742+43.6	x						Existing Inlet																																Remove Exist. Sturcture & 29 LFT of Pipe	
141	742+45.2		x					Existing Inlet																																Remove Structure & 17 LFT of Exist. Pipe	
142	742+47.5	x				12	2	Catch Basin K-10	26		1.8	704.31	704.10	75	N/A	7.0	1	7.4	1																			142A		708.12
142A	742+75.6	x			24.3			Manhole C-4				Ex. (~703.00)																												708.20
142B	742+96.3	x				12	2	Catch Basin K-10	18		1.6	704.35	703.50	75	N/A	7.0	1	4.6	1																			142A		707.96

DATE	REVISION
1/15/2016	REV 1: Revised Pipe Type
2/12/2016	REV 3: Added Rim Elevations.

PATRICK R. WOOLEN REGISTERED NO. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	232 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM												SUMP DEPTH	GEOTEXTILE	RIPRAP													
					FT	IN			LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
Line "MAI"																																							
143	742+48.4		x			12	2	Catch Basin K-10	9		1.0	704.89	704.82	75	N/A	7.0	1	1.7	1																			143A		707.85
143A	742+59.2		x		25.0			Manhole C-4				Ex. (~704.40)																											707.95
144																																						Structure Deleted	
145	742+76.5		x					Existing Manhole				Ex. (~702.34)																											Casting, Adjust to Grade	
146	742+87.5		x			12	2	Catch Basin K-10	28		2.7	703.04	702.77	75	N/A	7.0	1	10.1	1																			412A		707.75
147	742+91.8	x						Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
148	742+95.0		x					Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
149	743+15.4	x						Existing Inlet																															Remove Exist. Structure	
150	743+46.3	x				12	2	Catch Basin K-10	47		1.2	704.75	704.35	75	N/A	7.0	1	8.7	1																48					142B		707.94
151	744+02.4		x			12	2	Catch Basin K-10	113		2.1	703.67	703.04	75	N/A	7.0	1	36.0	1														48					146		707.74
152	744+02.8		x					Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
153	745+05.1		x			12	2	Catch Basin K-10	99		1.4	704.17	703.67	75	N/A	7.0	1	23.3	1																			151		707.57
154	745+05.1		x					Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
155	745+64.6		x			12	2	Catch Basin K-10	56		1.0	704.45	704.17	75	N/A	7.0	1	10.3	1																			153		707.49
156	745+64.6		x					Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
157	746+88.6		x			12	2	Catch Basin K-10	28		1.0	704.34	704.20	75	N/A	7.0	1	3.3	1														48					159		707.31
158	746+78.0	x				12	2	Catch Basin K-10	61		1.2	704.15	703.84	75	N/A	7.0	1	21.4	1														48					162		707.32
159	747+11.8		x					Manhole C-4				Ex. (~704.20)																											Remove Exist. Structure	708.00
160	747+17.8	x						Existing Inlet																															Remove Exist. Structure & Exist. Pipe	
161	747+39.8	x						Existing Inlet																															Remove Exist. Structure and 12 LFT of Exist. Pipe	
162	747+42.5	x			23.1			Manhole C-4				Ex. (~701.80)																											Connect to Exist. Pipe	707.50
162A	747+85.9	x			25.9			Mod. Catch Basin K-10				Ex. (~702.60)																											Connect to Exist. Pipe	707.87
162B																																					Structure Deleted	
163	747+88.9	x						Existing Inlet																															Remove Exist. Structure and 9 LFT of Exist. Pipe	
164	747+67.5		x		39.0			Manhole F-4				Ex. (~694.20)																											Connect to Exist. 84" Storm Sewer	708.11
165	748+24.8	x						Existing Inlet																															Remove Exist. Structure and Cap Exist. Pipe	
166	748+25.1		x					Existing Inlet																															Remove Exist. Structure, Remove 25 LFT and Cap Exist. Pipe	
167	748+38.2	x				12	2	Catch Basin K-10	56		1.1	704.20	703.86	75	N/A	7.0	1	11.8	1														48					162A		707.27
168	748+49.1		x			12	2	Catch Basin K-10	77		1.2	704.25	703.75	75	N/A	7.0	1	20.8	1														48					164		707.45
169	750+10.2		x			8	2	Catch Basin K-10	8		0.8	705.14	705.10	75	N/A	7.0	1	2.0	1																			170		707.62
170	750+16.0		x					Existing Inlet				Ex. (~705.10																											Casting, Furnish Type "4" & Adj. to Grade	
171	750+41.5	x						Existing Inlet																															Casting, Furnish Type "4" & Adj. to Grade	

DATE	REVISION
1/15/2016	REV 1: Revised Pipe Type
2/12/2016	REV 3: Added Rim Elevations.

PATRICK R. WOOLEN REGISTERED NO. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	233 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE FOR CLASS A FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET	SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM												SUMP DEPTH	GEOTEXTILE	RIPRAP											
					FT	IN			LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA		
Line "MAI"																																					
172	750+41.5	x				12	2	Inlet R-13	6		1.5	704.18	704.15	75	N/A	7.0	1	2.2	1												96						171		707.68
172A	751+63.5	x				12	2	Catch Basin K-10	60		1.1	704.55	704.19	75	N/A	7.0	1	19.3	1												48						175		707.65
173	751+85.4		x			12	2	Catch Basin K-10	3		0.9	704.80	704.78	75	N/A	7.0	1	1.0	1																		174		707.68
174	751+85.4		x		34.3			Manhole C-4				Ex. (~704.78)																									Remove Exist. Structure	708.18
175	752+25.9	x				12	2	Catch Basin K-10	30		1.5	704.19	704.00	75	N/A	7.0	1	11.6	1																		175A		707.74
175A	752+59.4	x			29.4	12	2	Manhole C-4	12		2.1	704.00	703.89	75	N/A	7.0	1	5.1	1																		177A		708.10
176	752+31.0	x						Existing Inlet																													Remove Exist. Structure and Cap Exist. Pipe	
177	752+82.0	x				12	2	Catch Basin K-10	9		1.2	704.60	704.53	75	N/A	7.0	1	2.9	1																		177A		707.84
177A	752+71.7	x			18.4			Manhole C-4																													Connect to Exist. Pipe	708.10
178	752+82.8		x					Catch Basin K-10																													Connect to Exist. Pipe	707.60
179	752+84.2	x						Existing Inlet																													Remove Exist. Structure and Cap Exist. Pipe	
179A	753+66.9	x				12	2	Catch Basin K-10	82		0.5	704.70	704.60	75	N/A	7.0	1	31.7	1																		177		707.16
180	754+87.2	x						Existing Inlet																													Casting, Furnish Type "4" & Adj. to Grade	
181	754+87.2	x				12	2	Inlet R-13	6		1.5	703.06	703.03	75	N/A	7.0	1	2.3	1																		180		706.56
182	754+87.9		x			12	2	Inlet R-13	3		1.5	702.91	702.89	75	N/A	7.0	1	1.1	1																		183		706.41
183	754+87.9		x					Existing Inlet																													Casting, Furnish Type "4" & Adj. to Grade	
184	756+81.6		x			12	2	Catch Basin K-10	26		0.9	702.49	702.31	75	N/A	7.0	1	7.5	1																		184A		705.39
184A	757+11.9		x		27.2	12	2	Manhole C-4	36		1.1	702.31	702.06	75	N/A	7.0	1	7.6	1																		430		705.40
184B																																					Structure Deleted	705.50
185	756+82.2	x				12	2	Catch Basin K-10	32		1.3	702.20	702.03	75	N/A	7.0	1	10.3	1																		185A		705.50
185A	757+17.9	x			27.6			Manhole C-4																													Connect to Exist. Pipe	705.21
186	756+96.6	x						Existing Inlet																													Remove Exist. Structure and Cap Exist. Pipe	
187	756+98.8		x					Existing Inlet																													Remove Exist. Structure and Cap Exist. Pipe	
Line "A"																																					
300																																					Structure Deleted	
301																																					Structure Deleted	
302																																					Structure Deleted	
303	23+38.0	x						Mod. Inlet A-3				Ex. (~701.19)																									Connect to Exist. Pipe	708.80
304	23+38.3		x		17.1			Existing Manhole																													Casting, Furnish Type "10"	
304A	25+24.5		x			8	2	Inlet S-14	25		1.5	704.45	704.29	75	N/A	7.0	1	4.7	1																		304B		708.42
304B	25+52.8		x		39.1	12	2	Catch Basin K-10	27		1.5	704.29	704.15	75	N/A	7.0	1	4.5	1																		304D		707.79
304C	25+60.5		x					Existing Inlet																													Remove Exist. Structure and 19 LFT of Exist. Pipe	
304D	25+61.1		x					Existing Manhole																														
305	25+58.3	x						Catch Basin K-10				Ex. (~704.35)																									Connect to Exist. Pipe	707.67
306	25+59.7	x						Existing Inlet																													Casting, Furnish Type "4" & Adj. to Grade	
307	26+24.8		x		10.7			Existing Manhole																													Casting, Adj. to Grade	707.90

DATE	REVISION
1/15/2016	REV 1: Revised Pipe Type
2/12/2016	REV 3: Added Rim Elevations.

PATRICK K. WOODEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	234 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE		DESCRIPTION	LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE FOR CLASS A FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET			MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM												SUMP DEPTH	GEOTEXTILE	RIPRAP													
					FT	IN	PIPE TYPE		LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
307A	25+99.2		x			12	2	Catch Basin K-10	28		1.5	704.08	703.94	75	N/A	7.0	1	5.8	1																		307		707.58
308	26+31.9	x			41.7			Manhole C-2				Ex. (~703.90)																									Remove Exist. Structure and 4 LFT of Exist. Pipe	707.75
309	26+58.9	x				12	2	Catch Basin K-10	23		1.5	704.09	703.98	75	N/A	7.0	1	9.7	1																		308		707.59
309A	26+68.1		x			12	2	Catch Basin K-10	43		1.5	703.97	703.75	75	N/A	7.0	1	8.9	1																		307		707.47
310	27+55.7		x					Existing Inlet																													Remove Structure & 15 LFT of Pipe	
310A	27+56.6		x					Mod. Inlet A-2				Ex. (~700.00)																									Casting, Furnish Type "10" & Adj. to Grade	707.72
311	27+56.8		x					Existing Manhole																													Structure Deleted	
312	28+05.3	x				12	2	Catch Basin K-10	20		1.5	703.42	703.32	75	N/A	7.0	1	8.4	1																		312A		706.92
312A	28+28.7	x						Manhole C-4				Ex. (~703.32)																									Remove Exist. Structure & 10 LFT of Pipe, Connect to Exist. Pipe	707.54
313																																			Structure Deleted	
314	28+69.7		x					Existing Manhole																													Casting, Furnish Type "10" & Adj. to Grade	
314A	28+69.7		x			12	2	Inlet A-2	3		2.5	703.47	703.45	75	N/A	7.0	1	0.7	1																		314		706.97
314B	29+36.8	x						Existing Inlet				Ex. (~699.20)																									Casting, Furnish Type "4" & Adj. to Grade	
315	29+37.6		x					Mod. Catch Basin K-10				Ex. (~695.59)																									Connect to Exist. Pipe	706.25
316	29+38.0		x					Existing Inlet																													Remove Structure & 17 LFT of Pipe	
316A	29+36.9	x						Mod. Catch Basin K-10				Ex. (~699.00)																											706.01
316B	30+30.0		x					Mod. Catch Basin K-10				Ex. (~695.40)																											704.52
316C	30+30.0		x			12	2	Inlet A-2	2		1.5	700.82	700.80	75	N/A	7.0	1	0.5	1																		316B		704.32
Line "RW-1"																																						
316D	30+78.9		x			12	2	Catch Basin K-10	15		2.5	699.78	699.70	75	N/A	7.0	1	3.9	1																		316E		703.28
316E	30+80.3		x					Manhole C-4				Ex. (~694.10)																											703.57
317	31+49.1		x					Existing Inlet																													Casting, Furnish Type "4" & Adj. to Grade	
318	31+50.0	x						Catch Basin K-10				Ex. (~695.70)																									Remove Exist. Structure & 1 LFT of Pipe	701.79
319	31+50.0	x						Catch Basin K-10				Ex. (~695.50)																									Connect to Exist. Pipe	702.19
320	31+50.0		x					Catch Basin K-10				Ex. (~695.39)																									Connect to Exist. Pipe	702.15
321	33+43.4	x						Catch Basin K-10				Ex. (~692.14)																									Remove Exist. Structure & 1 LFT of Pipe	697.78
322	36+25.5	x						Existing Inlet																													Remove Exist. Structure	
323	36+30.2	x				12	2	Catch Basin K-10	4		3.1	691.52	691.20	75	N/A	7.0	1	1.8	1																		322		696.60
324	36+91.0	x						Mod. Catch Basin K-10				Ex. (~689.20)																									Remove Exist. Structure & 1 LFT of Pipe	695.36
325	36+92.5		x					Existing Manhole																													Casting, Adj. to Grade	
326	38+47.6	x						Mod. Inlet A-3				Ex. (~691.40)																									Connect to Exist. Pipe	698.45
327	38+48.8	x						Existing Inlet																													Casting, Furnish Type "10"	
328	39+44.0		x					Existing Inlet																													Remove Exist. Structure & 12 LFT of Pipe	
329	39+45.4		x					Mod. Catch Basin K-10				Ex. (~693.55)																									Connect to Exist. Pipe	700.85
330	40+44.8	x						Existing Inlet																													Remove Exist. Structure & Cap Pipe	
331	41+01.5		x			12	2	Catch Basin K-10	12		1.5	699.54	699.22	75	N/A	7.0	1	3.5	1																		332		703.04
332	41+01.5		x					Existing Inlet																													Casting, Furnish Type "4" & Adj. to Grade	

DATE	REVISION
2/12/2016	REV 3: Added Rim Elevations; Adjusted Structures on West side of St. Joseph Street.

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	235 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM												SUMP DEPTH	GEOTEXTILE	RIPRAP													
					FT	IN			LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
Line "SAM"																																							
400																																						Structure Deleted	
Line "SOU"																																							
401	85+52.0		x					Existing Inlet																														Casting, Furnish Type "13" & Adj. to Grade	
Line "WAY"																																							
402	123+47.6	x				12	2	Catch Basin K-10	61		0.4	706.30	705.87	75	N/A	7.0	1	10.7	1																		125		708.70
403	123+77.3	x						Existing Inlet																														Remove Exist. Structure & Exist. Pipe	
404	123+80.0		x			12	2	Catch Basin K-10	26		1.1	705.90	705.65	75	N/A	7.0	1	5.8	1																		125	Remove Exist. Structure & Exist. Pipe	708.95
405	124+94.5	x						Existing Inlet				Ex. (~705.59)																										Remove Exist. Structure and Cap Exist. Pipe	
406	124+96.7		x			12	2	Catch Basin K-10	16		0.5	705.90	705.74	75	N/A	7.0	1	2.4	1																			Remove Exist. Structure & Exist. Pipe, Tie Into Exist. Manhole	708.37
407	125+22.0	x				12	2	Catch Basin K-10	65		0.9	705.45	704.94	75	N/A	7.0	1	13.9	1																		124A		708.37
Line "JEF"																																							
408	143+52.6		x			12	2	Catch Basin K-10	35		0.2	705.53	705.25	75	N/A	7.0	1	4.9	1																		408A		707.75
408A	143+73.5	x						Existing Manhole				Ex. (~705.40)																											708.34
409	143+52.8	x				12	2	Catch Basin K-10	29		0.4	705.50	705.25	75	N/A	7.0	1	4.3	1																		408A		707.85
410	143+75.0	x						Existing Inlet				Ex. (~705.40)																										Remove Exist. Structure & Exist. Pipe	
411	143+78.5		x					Existing Inlet				Ex. (~705.41)																										Remove Exist. Structure & Exist. Pipe	
412	145+09.4		x					Existing Inlet																														Casting, Furnish Type "10"	
412A	145+09.4	x				12	2	Catch Basin K-10	7		2.9	702.77	702.70	75	N/A	7.0	1	2.7	1																		412B	Remove Exist. Structure & Exist. Pipe	707.70
412B	145+09.6	x						Existing Manhole				Ex. (~701.60)																											
Line "WAS"																																							
413	163+52.1	x				12	2	Catch Basin K-10	55		1.0	704.06	703.54	75	N/A	7.0	1	11.5	1																		162A		707.10
414	163+52.4		x			12	2	Catch Basin K-10	56		1.0	704.04	703.52	75	N/A	7.0	1	11.6	1																		162		707.08
415	163+71.0	x						Existing Inlet																														Remove Exist. Structure & Exist. Pipe	
416	163+74.7		x					Existing Inlet																														Remove Exist. Structure & Exist. Pipe	
417	164+92.9		x					Existing Inlet																														Remove Exist. Structure and Cap Exist. Pipe	
418	165+18.8	x				12	2	Catch Basin K-10	43		0.7	705.14	704.76	75	N/A	7.0	1	6.7	1																		164		707.86
419	165+18.8		x			12	2	Catch Basin K-10	45		0.4	705.28	704.71	75	N/A	7.0	1	6.8	1																		164		707.67
Line "COL"																																							
420	183+51.9	x				12	2	Catch Basin K-10	56		0.5	705.25	704.80	75	N/A	7.0	1	10.2	1																		175A		707.80
421	183+54.6		x			12	2	Catch Basin K-10	56		0.6	705.19	704.80	75	N/A	7.0	1	9.6	1																		175A		707.76
422	183+74.9	x						Existing Inlet																														Remove Exist. Structure & Exist. Pipe	
423	183+77.1		x					Existing Inlet																														Remove Exist. Structure & Exist. Pipe	
424	184+96.3		x					Existing Inlet																														Remove Exist. Structure and Cap Exist. Pipe	
425	184+96.6	x						Existing Inlet																														Remove Exist. Structure and Cap Exist. Pipe	
426	185+32.2	x				12	2	Catch Basin K-10	19		0.6	705.47	705.28	75	N/A	7.0	1	2.8	1																		426A		708.12
426A	185+32.6	x			3.9			Manhole C-4																														Connect to Exist. Pipe	708.10
427	185+33.2		x			12	2	Catch Basin K-10	29		0.7	705.26	704.97	75	N/A	7.0	1	4.8	1																		426A		707.94

DATE	REVISION
2/12/2016	REV 3: Added Rim Elevations.

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	236 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	PIPE, 6 IN, DUAL WALL HDPE FOR PERMEABLE PAVEMENT OUTLET			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS	RIM ELEVATION
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM											SUMP DEPTH	GEOTEXTILE	RIPRAP														
					FT	IN			LFT		FT	ELEV.	ELEV.	YR.				CYS		CYS		SYS	TON	IN	SYS	TYPE	TONS	CYS	LFT	EA	LFT			TYPE	SLOPE	EA			
Line "LAS"																																							
428	213+29.2		x			12	2	Catch Basin K-10	33		0.9	702.23	702.03	75	N/A	7.0	1	6.1	1																		185A		705.12
429	213+34.6		x					Existing Inlet																													Remove Exist. Structure & 32 LFT of Exist. Pipe	
430	214+57.8		x		24.8			Manhole C-4				Ex. (~702.65)																									Remove Exist. Structure, Tie Into Exist. Pipe	705.15
431	214+57.8		x			12	2	Catch Basin K-10	7		0.3	702.69	702.65	75	N/A	7.0	1	0.8	1																		430		705.04
432																																					Structure Deleted	

DATE	REVISION
2/12/2016	REV 3: Added Rim Elevations.

PATRICK K. WOOLEN REGISTERED No. 10504741 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 1/7/2016 DATE

DESIGNED: MRR DRAWN: JRG

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	237 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

Jgee 2/15/2016 5:11:45 PM P:\2014\01351\D. Drawings\201401351.RD.SD.07.dgn

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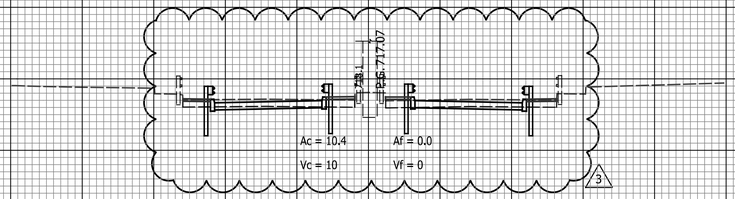
201401351_Shade.tbl

CROSS SECTIONS

Scale: 1 inch = 10 feet

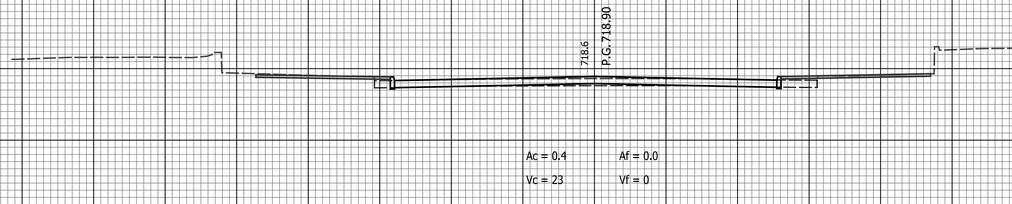
CUT 150 140 130 120 110 100 90 80 70 60 50 40 30 20 — FILL 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

730 / 720 / 710



719 + 50

719 + 00



718 + 50

DATE	REVISION
2/12/2016	REV 3: Added Guardrail

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: MRR DRAWN: MRR

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CROSS SECTIONS
LINE "MAI"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	AAA
SURVEY BOOK	SHEETS
N/A	241 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

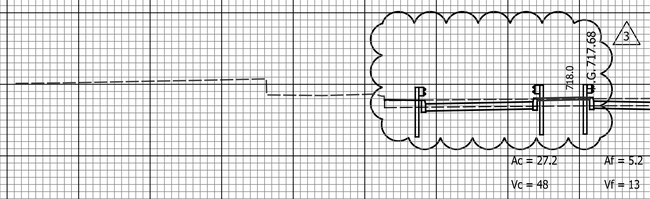
CROSS SECTIONS

Scale: 1 inch = 10 feet

CUT FILL

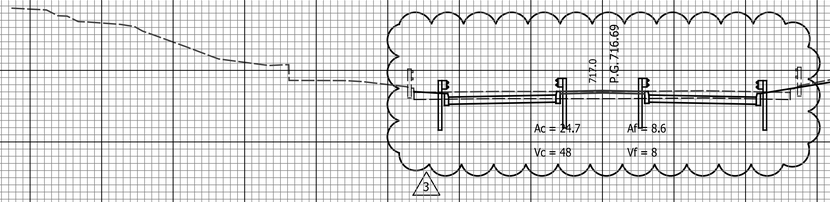
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

730 720 710



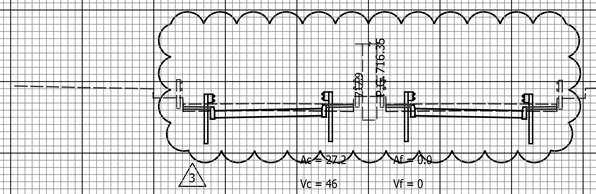
721 + 50

730 720 710



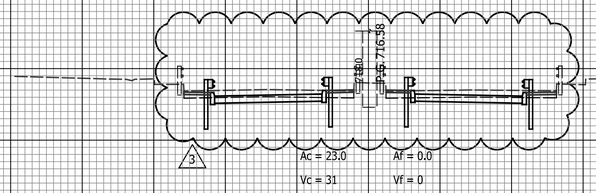
721 + 00

730 720 710



720 + 50

720 710



720 + 00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE	REVISION
2/12/2016	REV 3: Added Guardrail

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: MRR DRAWN: MRR

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

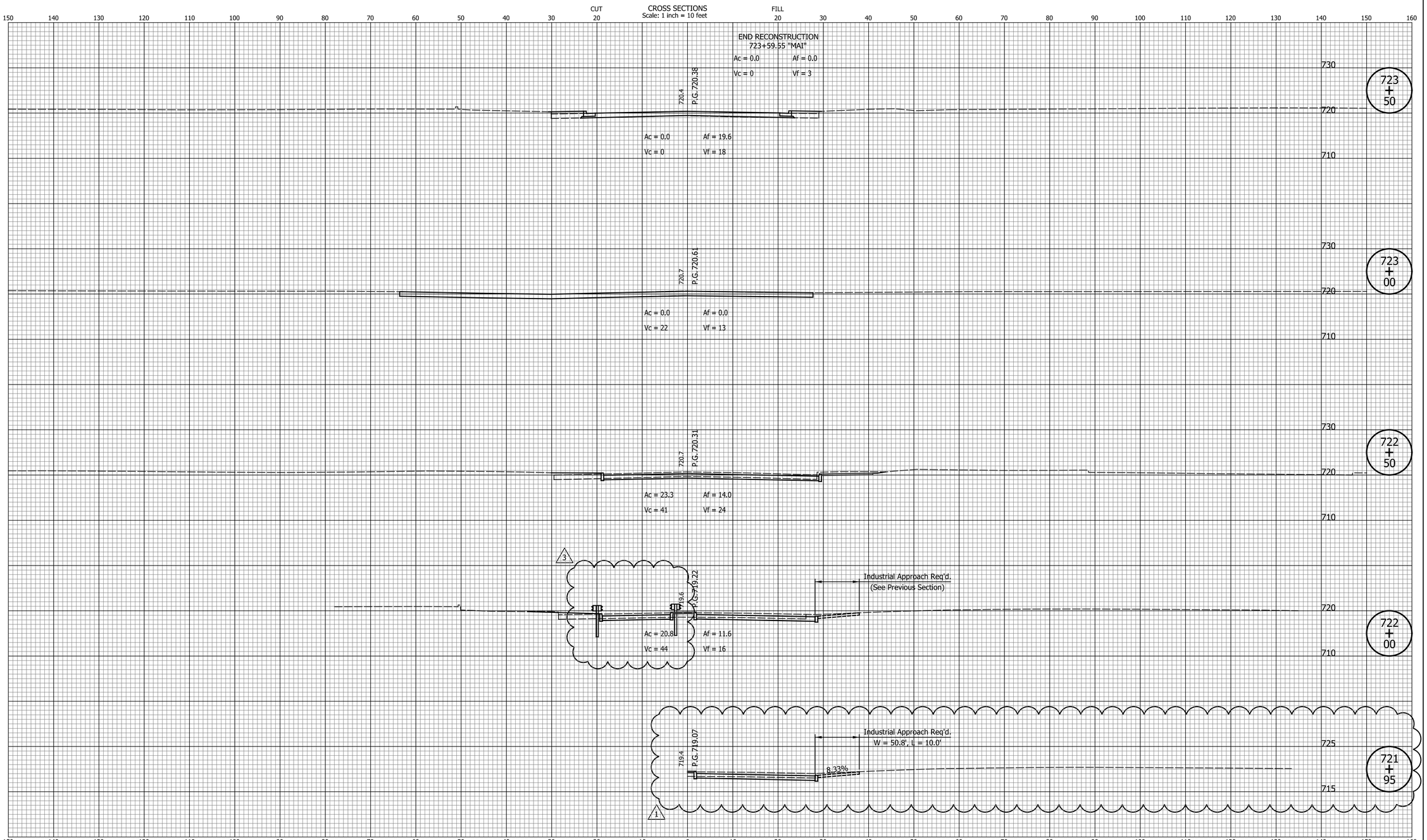
CROSS SECTIONS

LINE "MAI"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	AAA
SURVEY BOOK	SHEETS
N/A	242 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)

CROSS SECTIONS

Scale: 1 inch = 10 feet



DATE	REVISION
1/15/2016	REV 1: Added Drive Section
2/12/2016	REV 3: Added Guardrail

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: MRR DRAWN: MRR

CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

CROSS SECTIONS
LINE "MAI"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
N/A	243 of 246
CONTRACT	PROJECT
N/A	115-019 (DIV B)