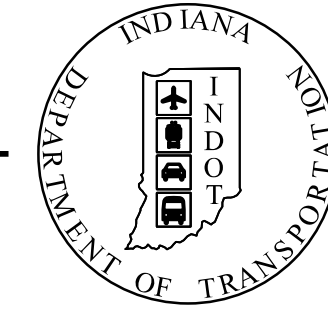


PROJECT	DESIGNATION
1902693	1902693
CONTRACT	
T-42856	

INDIANA DEPARTMENT OF TRANSPORTATION



SEE INDEX SHEET FOR TRAFFIC AND DESIGN DATA

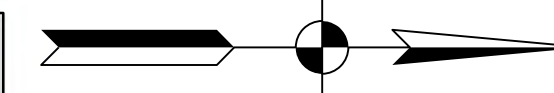
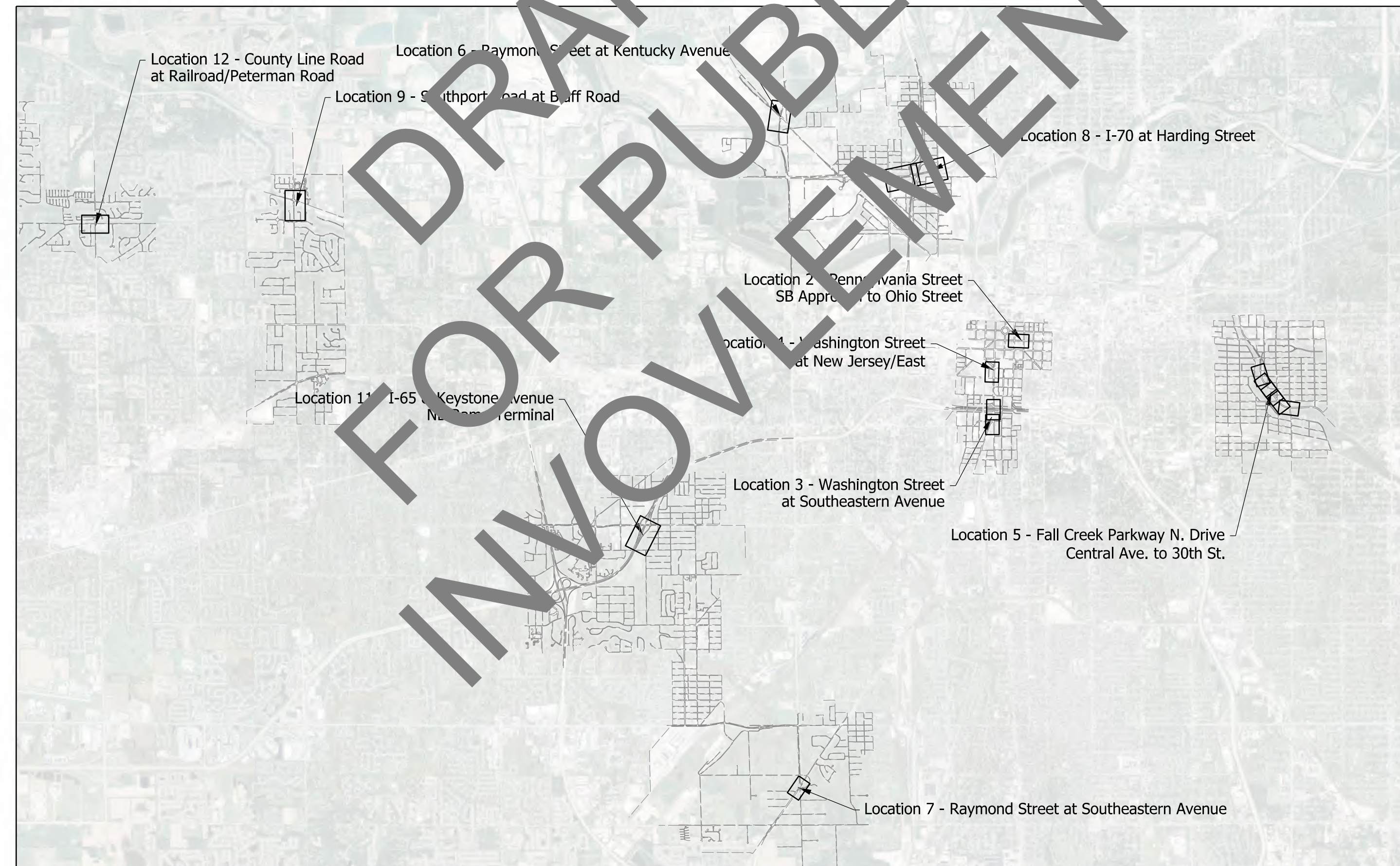
ROAD AND TRAFFIC PLANS ADVANCED M.O.T. SPOT IMPROVEMENTS

PROJECT NO. 1902693 P.E.

PROJECT DESCRIPTION

ITS SIGNAL COMMUNICATIONS UPGRADE AND SPOT LOCATION IMPROVEMENTS. TEN PROJECT LOCATIONS IN THE CITY OF INDIANAPOLIS, MARION COUNTY. PROJECT WILL REPAIR OR UPGRADE VARIOUS TRAFFIC SIGNAL EQUIPMENT AT EACH LOCATION ALONG WITH LANE ADDITIONS AND UPDATED SIGNING AND PAVEMENT MARKINGS.

DESIGNATION	PROJECT LOCATION
LEAD Des. 1902693	PENNSYLVANIA ST. SB TO OHIO ST. (LOCATION 2) WASHINGTON ST. AT NEW JERSEY/EAST (LOCATION 4) RAYMOND ST. AT KENTUCKY AVE. (LOCATION 6) RAYMOND ST. AT SOUTHEASTERN AVE. (LOCATION 7) SOUTHPORT RD. AT BLUFF RD. (LOCATION 9) COUNTY LINE RD. AT RAILROAD RD. (LOCATION 12)
Des. 2001151	FALL CREEK CORRIDOR (LOCATION 5)
Des. 2001152	I-70 & HARDING (LOCATION 8) I-65 & KEYSTONE NB RAMP (LOCATION 11)
Des. 2001153	WASHINGTON ST. AT SOUTHEASTERN AVE. (LOCATION 3)



LATITUDE: N/A LONGITUDE: N/A

GROSS LENGTH: N/A
NET LENGTH: N/A
MAX. GRADE: N/A

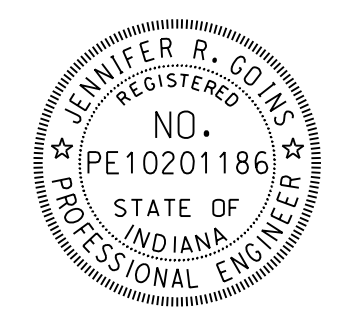
LOCATION MAP
1" = 5000'

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS

jsburton
4/6/2020 12:57:49 pm
model:Sheet1
file: c:\cadd\ib\p\jsburton\greateakes\002\27\5117\1066-raf-s-rov02.dgn



HNTB INDIANA, INC
THE HNTB COMPANIES
ENGINEERS ARCHITECTS PLANNERS
111 MONUMENT CIRCLE
SUITE 1200
INDIANAPOLIS, IN 46204



PLANS PREPARED BY: HNTB INDIANA, INC PHONE NUMBER
CERTIFIED BY: *Jennifer R. Goings* 4/6/2020 DATE
APPROVED FOR LETTING: _____ DATE

BRIDGE FILE	
N/A	
DESIGNATION	
1902693	
SURVEY BOOK	SHEETS COV-01
ELECTRONIC	1 of 72
CONTRACT	PROJECT
T-42856	1902693

UTILITY CONTACTS

FIBER

Intelligent Fiber Network
Shawn Wright
722 N. High School Road
Indianapolis, IN 46124
317-280-4636
swright@intelligentfiber.com

IU Fiber
Philip Nichols
1800 N. Range Road
Bloomington, IN 47408
812-855-3552
pdnichol@indiana.edu

CenturyLink
Dave Huckfeldt
19675 W. 10 Mile Road
Southfield, MI 48075
517-812-2592
dave.huckfeldt@centurylink.com

Crown Castle
David Antol
2000 Corporate Dr.
Cannonsburg, PA 15317
724-416-2180
fiber.dig@crowncastle.com

TCS Communication
Mike Marafine
4355 Lafayette Blvd.
Indianapolis, IN 46254
241-597-4716
mike.marafine@tesinclc.com

Zayo Bandwidth
Waylon Higgins
9209 Castlegate Dr.
Indianapolis, IN 46256
765-341-1199
waylon.higgins@zayo.com

US Signal (RVP Fiber)
John Lundell
201 Iona Ave. SW
Grand Rapids, MI 49503
616-988-7117
jlundell@ussignal.com

Metronet
Lori Kemper
3701 Communications Way
Evansville, IN 47715
812-213-1050
lori.kemper@metronetinc.com

TELEPHONE

AT&T
Jeff Rice
240 N Meridian St.
Room 1791
Indianapolis, IN 46204
317-610-5438
jr2647@att.net

MCI/Verizon
Roland Craig
720 W. Henry Street
Indianapolis, IN 46225
317-498-1242
dennis.craig@verizon.com

Sprint/Nextel
Steven Hughes
11370 Enterprise Park Dr.
Sharonville, OH 45241
513-459-5796
steven.hughes@sprint.com

SIGNALS
City of Indianapolis
Theresa Mendoza
1200 S. Madison Avenue
Suite 200
Indianapolis, IN 46225
317-327-2302
theresa.mendoza@Indy.Gov

CABLE

Comcast
Will Morris
5330 E 65th St.
Indianapolis, IN 46220
317-516-2237
william_morris@cable.comcast.com

GAS

Citizens Energy
utilitycoordination@citizensenergygroup.com

Vectren
Mostafa Khallad
765-287-2150
mostafa.khallad@centerpointenergy.com

WATER/SEWER

Citizens Energy
Scott Ritter
2150 Dr. Martin Luther King Jr. St.
Indianapolis, IN 46202
317-927-4434
sritter@citizensenergygroup.com

Indiana American Water
Jared Burnett
135 N. Emerson Ave.
Greenwood, IN 46143
317-885-2428
jared.burnett@amwater.com

ELECTRIC

IPL
Janet Snodgrass
1230 W. Morris Street
Indianapolis, IN 46221
317-261-8617
janet.snodgrass@aes.com

GENERAL NOTES

	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation lines will be cross sectioned by the engineer before construction.
	Existing asphalt pavement located outside the construction limits shall be removed as directed.
XX	All earth shoulders, median areas, cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
XX	All existing storm drainage pipes, inlets, and manholes shall remain unless otherwise noted.
	All existing right of way fence shall be removed unless otherwise noted.
XX	All disturbed areas shall be seeded with seed mixture "U" unless otherwise noted.
XX	All slopes are to be repaired with a minimum amount of grading so as not to disturb existing vegetation more than necessary.
XX	Denotes General Notes Required.

SHEET INDEX

SHEET NO.	DWG NO.	DESIGNATION
1	TI-00	TITLE SHEET
2	IN-01	INDEX AND GENERAL NOTES
3	MOT-01	MAINTENANCE OF TRAFFIC
		PENNSYLVANIA ST. SB TO OHIO ST. (LOCATION 2)
4	MOT-02	MAINTENANCE OF TRAFFIC
5	SPM-01	SIGNING AND PAVEMENT MARKING PLANS
6	TBL-01	SUMMARY TABLE
		WASHINGTON ST. AT SOUTHEASTERN AVE. (LOCATION 3)
7	TS-01	TYPICAL SECTIONS
8	MOT-03	MAINTENANCE OF TRAFFIC
9 - 10	CD-01 - CD-02	CONSTRUCTION DETAILS
11	ID-01	SPOT ELEVATION DETAIL
12 - 13	SPM-02 - SPM-03	SIGNING AND PAVEMENT MARKING PLANS
14	TBL-02	SUMMARY TABLE
		WASHINGTON ST. AT NEW JERSEY/EAST (LOCATION 4)
15	MOT-04	MAINTENANCE OF TRAFFIC
16	CRD-01	CURB RAMP DETAILS
17 - 18	SG-01 - SG-02	SIGNAL DETAILS
19	TBL-03	SUMMARY TABLE
		FALL CREEK PARKWAY N. DRIVE CENTRAL AVE. TO 30TH ST. (LOCATION 5)
20	MOT-05	MAINTENANCE OF TRAFFIC
21	SN-01	SIGNING DETAIL
22 - 24	SPM-04 - SPM-06	SIGNING AND PAVEMENT MARKING PLANS
25 - 26	TBL-04 - TBL-05	SUMMARY TABLE
		RAYMOND ST. AT KENTUCKY AVE. (LOCATION 6)
27	SG-03	SIGNAL DETAILS
28	TBL-06	SUMMARY TABLE
		RAYMOND ST. AT SOUTHEASTERN AVE. (LOCATION 7)
29	MOT-06	MAINTENANCE OF TRAFFIC
30	ID-02	SPOT ELEVATION DETAIL
31	SPM-07	SIGNING AND PAVEMENT MARKING PLANS
32	TBL-07	SUMMARY TABLE
		I-70 & HARDING (LOCATION 8)
33 - 37	TS-02 - TS-06	TYPICAL CROSS SECTIONS
38 - 41	MOT-07 - MOT-10	MAINTENANCE OF TRAFFIC
42 - 43	CD-03 - CD-04	CONSTRUCTION DETAILS
44 - 45	ID-03 - ID-04	SPOT ELEVATION AND INTERSECTION DETAIL
46 - 47	SPM-08 - SPM-09	SIGNING AND PAVEMENT MARKING PLANS
48 - 49	SG-04 - SG-05	SIGNAL DETAILS
50 - 51	TBL-08 - TBL-09	SUMMARY TABLE
		SOUTHPORT RD. AT BLUFF RD. (LOCATION 9)
52	SG-06	SIGNAL DETAILS
		I-65 & KEYSTONE NB RAMP (LOCATION 11)
53 - 54	TS-07 - TS-08	TYPICAL CROSS SECTIONS
55 - 56	MOT-12 - MOT-13	MAINTENANCE OF TRAFFIC
57	PLN-01	ROADWAY PLAN
58	SED-01	SUPERELEVATION DIAGRAM
59 - 60	CD-05 - CD-06	CONSTRUCTION DETAILS
61	ID-05	SPOT ELEVATION AND CURB RAMP DETAIL
62	SESC-01	EROSION CONTROL DETAIL
63	SPM-10	SIGNING AND PAVEMENT MARKING PLANS
64	TBL-10	SUMMARY TABLE
65 - 69	XS-01 - XS-05	ROADWAY CROSS SECTIONS
		COUNTY LINE RD. AT RAILROAD RD. (LOCATION 12)
70	SG-07	SIGNAL DETAILS
71	SN-02	SIGN DETAILS
72	TBL-11	SUMMARY TABLE



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Location	2	3	3	4	4	4	5	6	6	7	7	8	8	8	9	9	11	11	12	12
TRAFFIC DATA	Pennsylvania St.	Washington St.	Southeastern Ave	Washington St.	New Jersey St.	East St.	Fall Creek Parkway	Raymond St.	Kentucky Ave.	Raymond St.	Southeastern Ave.	Harding St.	I-70 EB Ramps	I-70 WB Ramps	Southport Rd.	Bluff Rd.	Keystone Ave.	I-65 NB Ramps	County Line Rd.	Railroad Rd.
AADT (2019)	13,300	31,500	11,400	23,700	3,800	12,200	32,500	18,900	13,300	13,500	15,400	20,200	11,300	11,700	15,200	13,000	24,600	8,800	13,200	5,500
AADT (2040)	14,800	35,000	12,700	26,300	4,200	13,500	36,100	21,000	14,800	15,000	17,100	22,400	12,500	13,000	16,900	14,400	27,300	9,800	14,700	6,100
DHV (2040)	1,470	2,870	1,070	2,590	470	1,360	3,500	2,520	1,420	1,420	1,560	1,960	1,430	990	1,400	1,270	2,020	1,260	960	590
DIRECTIONAL DISTRIBUTION	100%	65%	64%	81%	100%	100%	78%	58%	58%	56%	62%	64%	75%	57%	58%	70%	59%	100%	72%	53%
TRUCKS, % AADT	2.4%	4.4%	5.1%	3.1%	2.8%	2.9%	1.3%	16.7%	20.7%	6.8%	6.5%	10.8%	11.4%	12.5%	2.1%	1.7%	2.6%	3.6%	1.5%	0.8%
TRUCKS, % DHV	1.3%	1.9%	1.7%	1.4%	0.7%	1.3%	1.2%	8.4%	7.6%	4.0%	3.4%	8.2%	7.4%	6.7%	1.1%	0.8%	1.9%	1.9%	1.5%	0.9%
DESIGN DATA																				
DESIGN SPEED	25 MPH	35 MPH	35 MPH	25 MPH	25 MPH	25 MPH	35 MPH	45 MPH	35 MPH	40 MPH	40 MPH	40 MPH	30 MPH	30 MPH	40 MPH	45 MPH	40 MPH	35 MPH	40 MPH	35 MPH
PROJECT DESIGN CRITERIA	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R	PARTIAL 3R
FUNCTIONAL CLASSIFICATION	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	INTERSTATE RAMP	INTERSTATE RAMP	ARTERIAL	ARTERIAL	ARTERIAL	INTERSTATE RAMP	ARTERIAL	COLLECTOR
RURAL/URBAN	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Built Up)	URBAN (Intermediate)	URBAN (Intermediate)	URBAN (Intermediate)	URBAN	URBAN	URBAN (Suburban)	URBAN (Suburban)	URBAN (Intermediate)	URBAN	URBAN (Suburban)	URBAN (Suburban)
TERRAIN	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	PARTIAL	FULL	FULL	NONE	NONE	PARTIAL	FULL	NONE	NONE



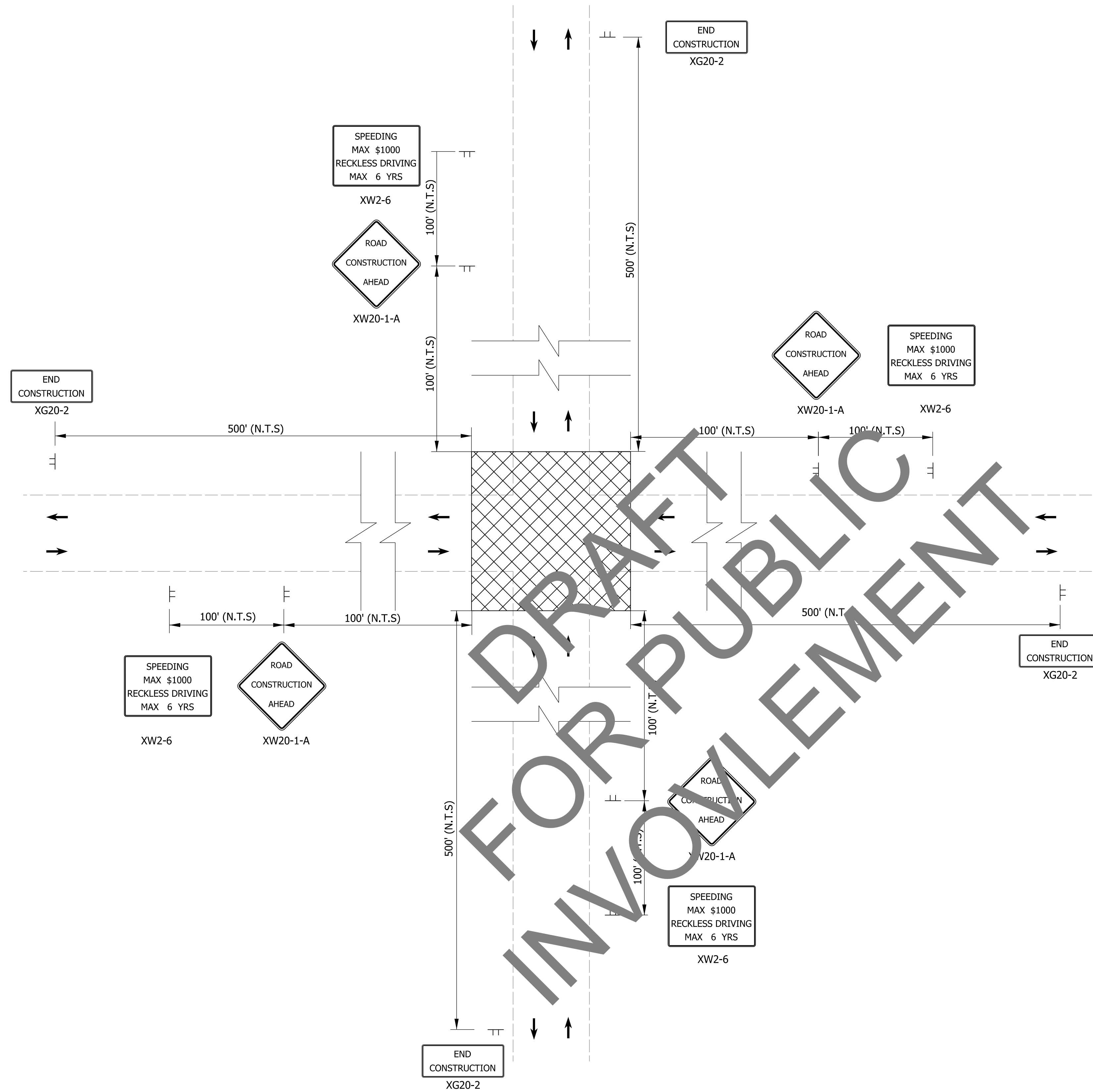
RECOMMENDED FOR APPROVAL: *Jennifer R. Goins* 4/6/2020
DESIGN ENGINEER DATE

DESIGNED: JSB DRAWN: JSB
CHECKED: MDC CHECKED: MDC

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS
ELECTRONIC	IND-01
2	of 72
CONTRACT	PROJECT
T-42856	1902693

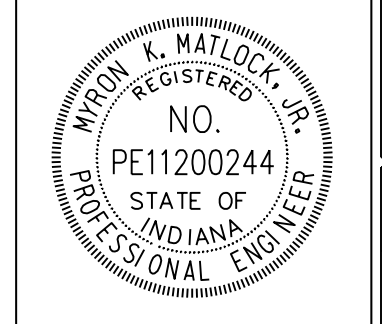


Maintenance Of Traffic Summary		
Location	Posted Speed (MPH)	Construction Sign, A (EACH)
Raymond/Kentucky	40/45	12
Southport/Bluff	40/45	12
County Line/Railroad/Peterman	40/40	12

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Maintenance Of Traffic Legend

Construction Area
 Direction Of Traffic
 Construction Sign, A

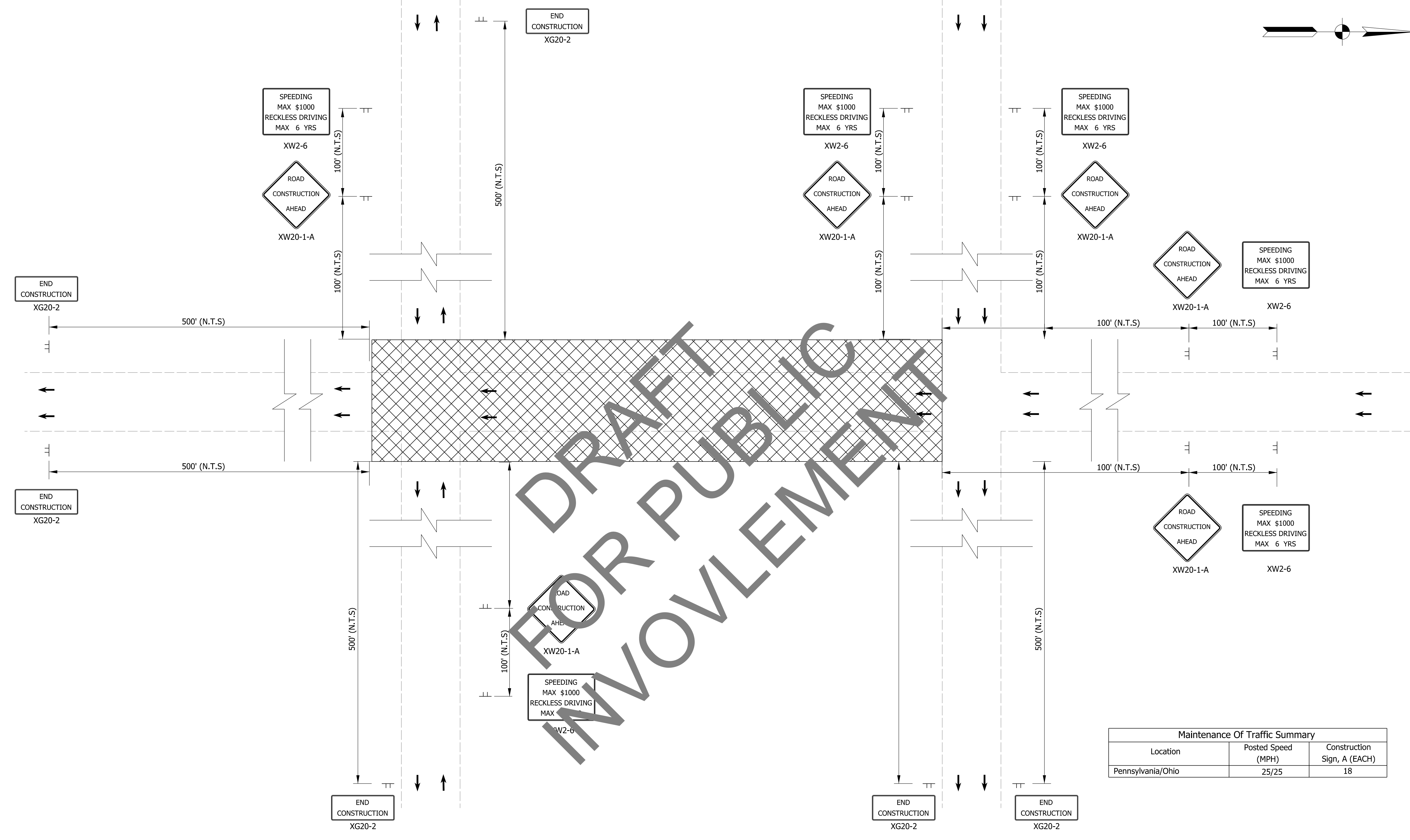
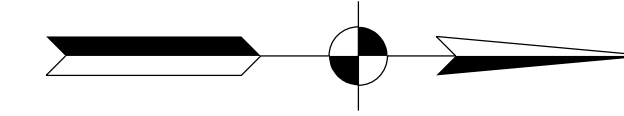


RECOMMENDED FOR APPROVAL *Myron E. Wallock, Jr.* 4/6/2020
 DESIGN ENGINEER DATE
 DESIGNED: _____ KCM DRAWN: _____ KCM
 CHECKED: _____ MKM CHECKED: _____ MKM

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

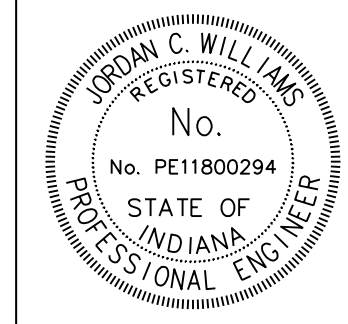
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VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS MOT-01
ELECTRONIC	3 of 72
CONTRACT	PROJECT
T-42856	1902693



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Maintenance Of Traffic Summary		
Location	Posted Speed (MPH)	Construction Sign, A (EACH)
Pennsylvania/Ohio	25/25	18

Maintenance Of Traffic Legend
 Construction Area
 Direction Of Traffic
 Construction Sign, A

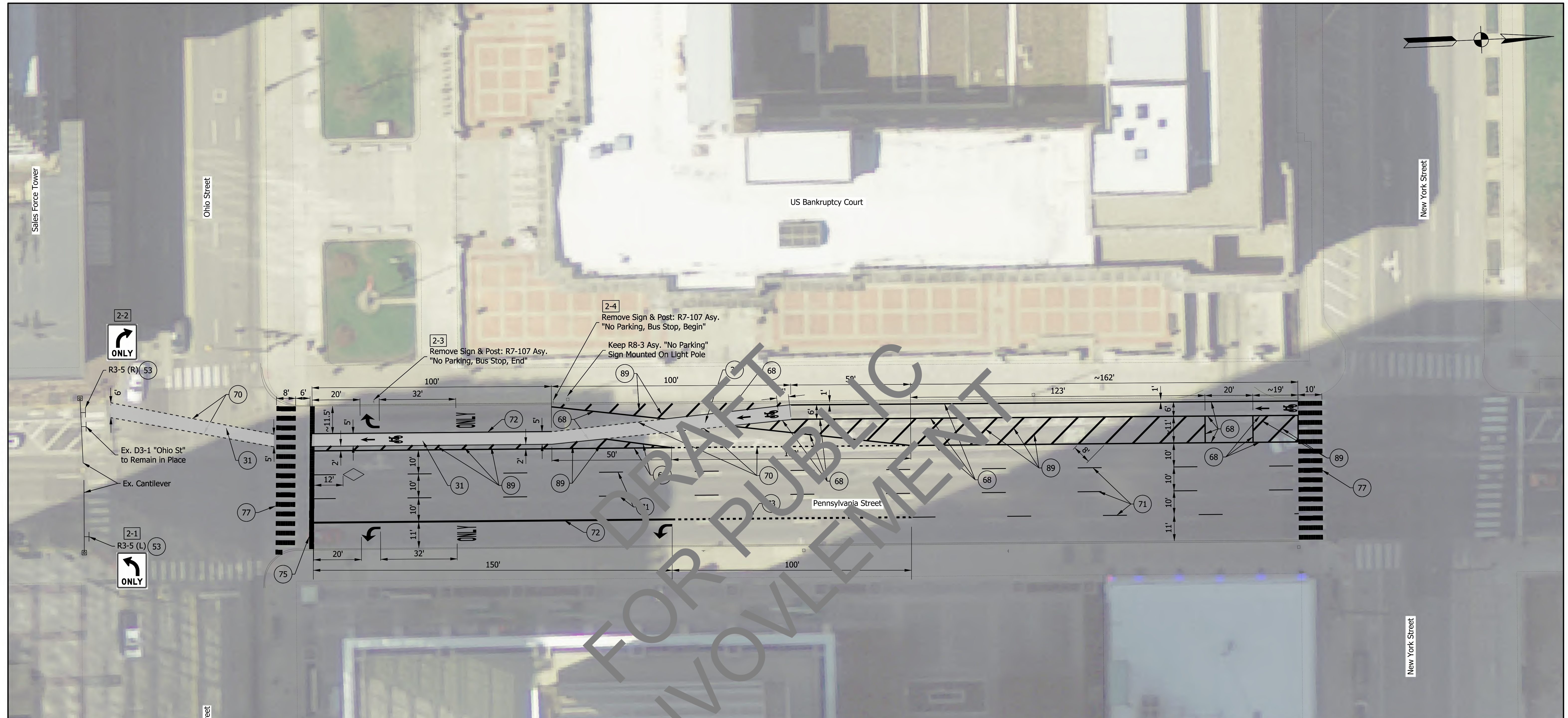


RECOMMENDED FOR APPROVAL: *J. Will* 4/6/2020
 DESIGN ENGINEER DATE
 DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

INDIANA DEPARTMENT OF TRANSPORTATION
 PENNSYLVANIA STREET SB APPROACH TO OHIO STREET
 MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS MOT-02
ELECTRONIC	4 of 72
CONTRACT	PROJECT
T-42856	1902693

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LEGEND

- (71) Line, Multi-Component, Broken, White, 4 IN. (10 Ft. Line, 30 Ft. Skip)
- (68) Line, Multi-Component, Solid, White, 4 IN.
- (75) Transverse Marking, Multi-Component, Stop Line, 24 IN.
- (77) Transverse Marking, Multi-Component, Crosswalk, White 24 IN.
- (89) Line, Multi-Component, Crosshatch, White, 12 IN., 8 FT. Spacing
- (31) Bicycle Crossing MMA, Green
- (72) Line, Multi-Component, Solid, White, 8 IN.
- (73) Line, Multi-Component, Dotted, White, 8 IN. (2 Ft. Line, 6 Ft. Skip)
- (70) Line, Multi-Component, Dotted White, 4 IN. (2 Ft. Line, 6 Ft. Skip)
- (53) New Sheet Sign on Cantilever
- ↖ Pavement Message Marking, Multi-Component, Lane Indication Arrow
- ↑ Pavement Message Marking, Multi-Component, Lane Indication Arrow
- ONLY Pavement Message Marking, Multi-Component, "Only"
- 🚲 Pavement Message Marking, Multi-Component, Bike Symbol
- ◊ Snowplowable Raised Pavement Marking, Blue (One Way)

Notes:
 1. Crosswalk markings to replace existing. Crosswalk shall consist of 24 In. wide lines separated by 24 In. gaps.
 2. Remove existing markings in conflict with proposed markings.
 3. All signs not called out and not in conflict with proposed design shall remain in place.



RECOMMENDED FOR APPROVAL: *J. Will* DESIGN ENGINEER DATE: 4/6/2020
 DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

INDIANA DEPARTMENT OF TRANSPORTATION
 PENNSYLVANIA STREET SB APPROACH TO OHIO STREET
 SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 72
CONTRACT	PROJECT
T-42856	1902693

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PAVEMENT MARKINGS SUMMARY OF QUANTITIES

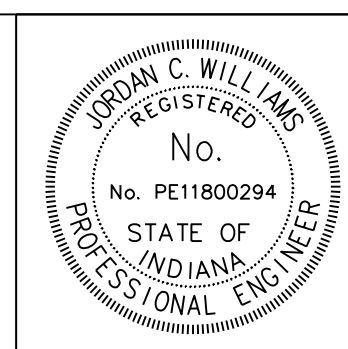
LOCATION	LINE, MULTI-COMPONENT									LINE, MULTI-COMPONENT, CROSSHATCH		GROOVING FOR PAVEMENT MARKINGS	TRANSVERSE MARKING, MULTI-COMPONENT			PAVEMENT MESSAGE MARKING, MULTI-COMPONENT				PAVEMENT MARKING M/M, GREEN	LINE, REMOVE	PAVEMENT MESSAGE MARKING, REMOVE	SNOWFLOWABLE RAISED PAVEMENT MARKERS	
	SOLID YELLOW 4 in	SOLID WHITE 4 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 4 in	DOTTED YELLOW 4 in	DOTTED WHITE 4 in	DOTTED WHITE 8 in	SOLID WHITE 12 in	SOLID YELLOW 12 in	SOLID WHITE 12 in		SOLID YELLOW 12 in	YIELD LINE WHITE 24 in	STOP LINE 24 in	CROSSWALK WHITE 24 in	LANE INDICATION ARROW	BIKE SYMBOL	WORD "ONLY"					SHARED LANE
	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT		LFT	LFT	LFT	LFT	EACH	EACH	EACH					EACH
Pennsylvania St. at Ohio St.		1,124	150		987		339	150	349			2,361		60	273	6	3	2		1427	2960	22	1	

SHEET SIGN & POST SUMMARY

SIGN NUMBER	SIGN LOCATION (STA.)	LT / RT	OFFSET FT.	SIGN CODE	SIGN					SIGN SIZE (w x h) (IN x IN)	GROUND - MOUNTED SIGN AREA (ft ²)			MOUNTED ON PANEL SIGN, AREA (ft ²)	POST						REMARKS						
					Existing, Keep	Existing, Relocate	Existing, Remove	New	U CHANNEL			SQUARE			2.5" X 2.5" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)				2 1/4" X 2 1/4" - 12 GA. (TYPE 1)					
									POST LENGTH		POST WIDTH	POST LENGTH	POST WIDTH		POST LENGTH (FT.)	POST WIDTH (FT.)	POST LENGTH (FT.)	POST WIDTH (FT.)	POST LENGTH (FT.)	POST WIDTH (FT.)		POST LENGTH (FT.)	POST WIDTH (FT.)	POST LENGTH (FT.)	POST WIDTH (FT.)	POST LENGTH (FT.)	POST WIDTH (FT.)
2 - Pennsylvania St. at Ohio St																											
2-1	East Signal			R3-5 (L)			x	30 x 36	7.50													Sign to be mounted on existing signal cantilever					
2-2	West Signal			R3-5 (R)			x	30 x 36	7.50													Sign to be mounted on existing signal cantilever					
2-3	RT Only Lane-End	RT		R7-7 assembly			x															Remove "No Parking - Bus Stop - End" Sign Assembly & Supports					
2-4	RT Only Lane-Begin	RT		R7-7 assembly			x															Remove "No Parking - Bus Stop - Begin" Sign Assembly & Supports					
TOTALS									15.0	0.0	0.0	0		0.0	0.0												

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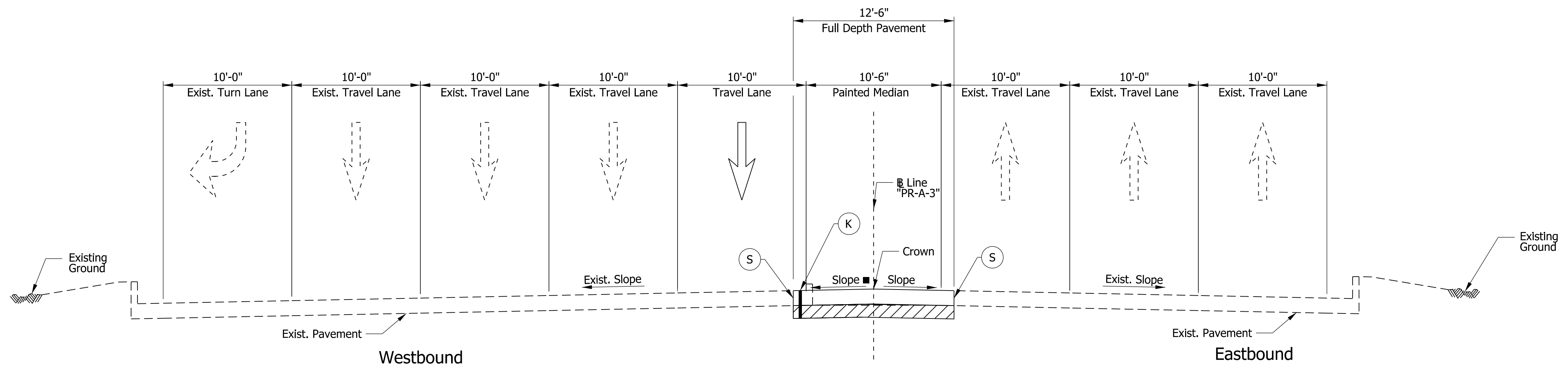
RECOMMENDED FOR APPROVAL: *J. Will* 4/6/2020
 DESIGN ENGINEER DATE

DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

INDIANA DEPARTMENT OF TRANSPORTATION

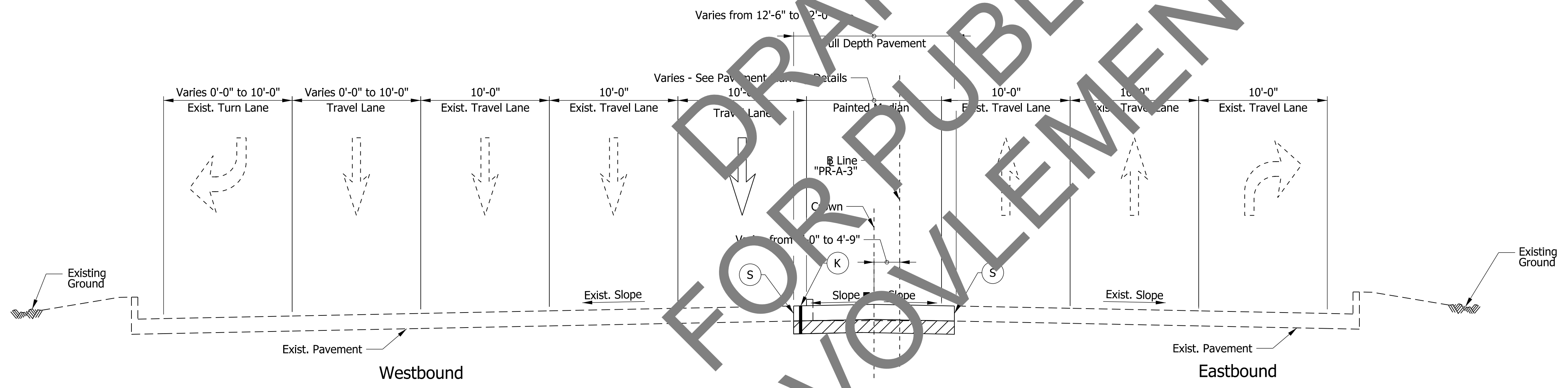
SUMMARY TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS TBL-01
ELECTRONIC	6 of 72
CONTRACT	PROJECT
T-42856	1902693



Washington Street Typical Section
From I-65 NB Ramps to Southeastern Avenue
300+50 to 301+51

Notes:
*See Construction Details for Crown Location
■ 1% Slope from 300+50 to 302+00.
Slope Varies from 1% at 302+00 to 2% at 302+25.
2% Slope from 302+25 to 303+50.



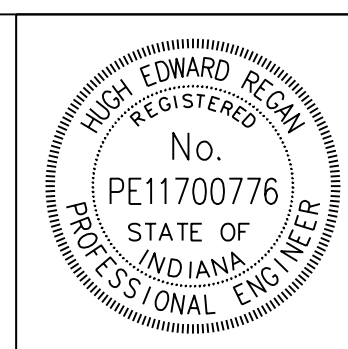
Washington Street Typical Section
From I-65 NB Ramps to Southeastern Avenue
301+51 to 303+50

Notes:
*See Construction Details for Crown Location

CONSTRUCTION LEGEND

- (F) HMA for Sidewalk
- (K) 165 #/syd QC/QA HMA, 3, 70, Surface, 9.5 mm HMA Patching, Type D Consisting of: Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match the adjacent pavement thickness on Subgrade Treatment, Type ID
- (S) Saw Cut

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4/6/2020 12:59:59 pm
model-Sheet1
file: c:\cadd\ib\p\jsburton\grate\akes\002\22\2517\1066-rd-s-ty03.dgn



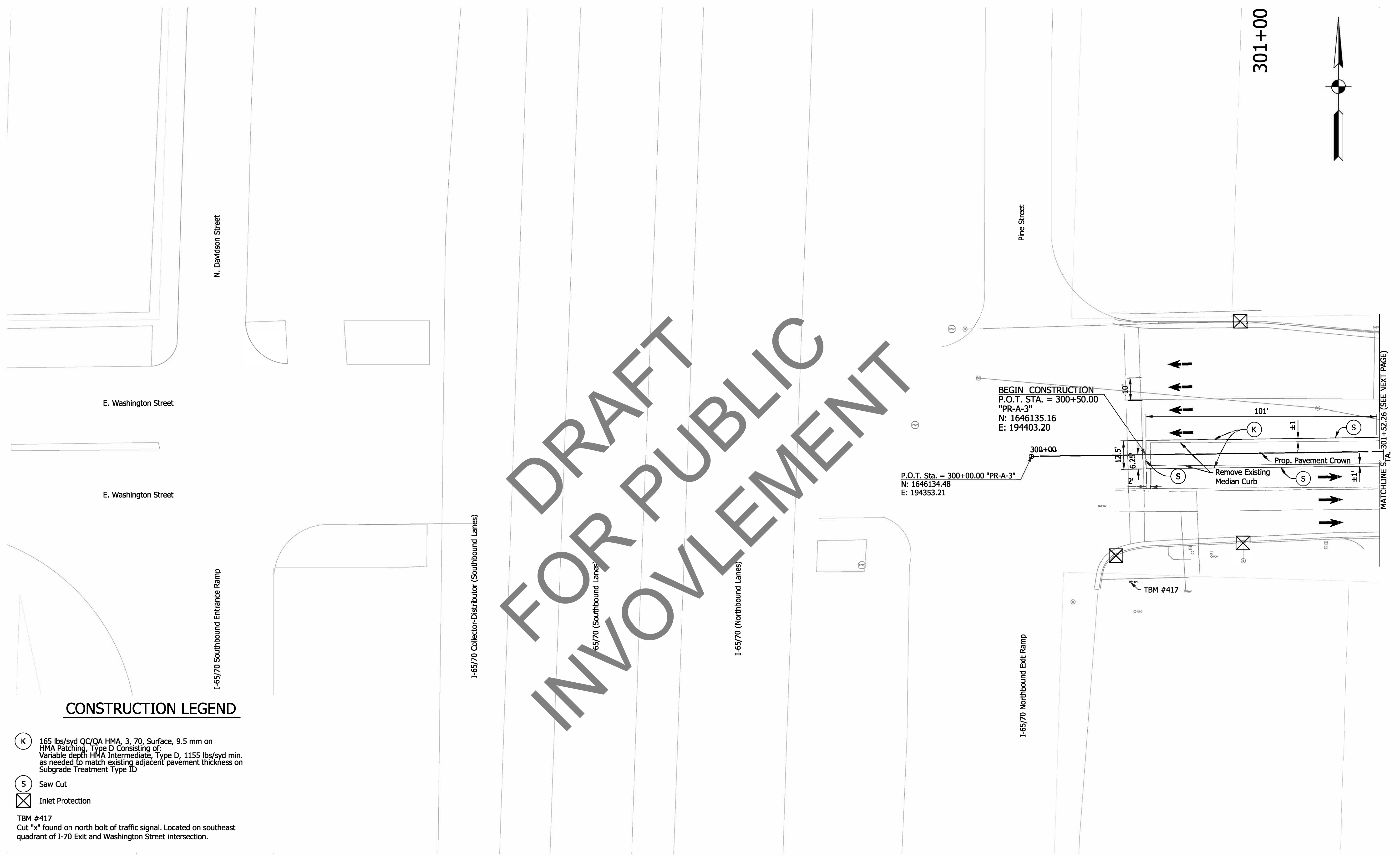
RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	HER	DRAWN:	HER	
CHECKED:	MKM	CHECKED:	MKM	

INDIANA
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT SOUTHWESTERN AVENUE
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001153
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 72
CONTRACT	PROJECT
T-42856	1902693

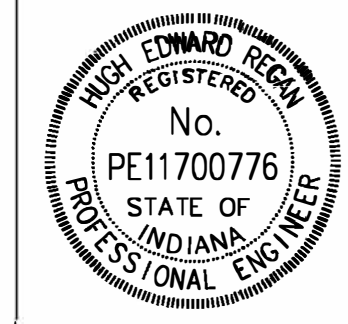
DRAFT
FOR PUBLIC
INVOLVEMENT



CONSTRUCTION LEGEND

- K 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5 mm on HMA Patching, Type D Consisting of:
Variable depth HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match existing adjacent pavement thickness on Subgrade Treatment Type ID
- S Saw Cut
- X Inlet Protection
- TBM #417
Cut "x" found on north bolt of traffic signal. Located on southeast quadrant of I-70 Exit and Washington Street intersection.

jbsurton
4/6/2020 1:00:27 pm
model: Sheet2
file: c:\cadd\ib\jbsurton\grathtakes\00232759\74065-rf-s-rd03.dgn

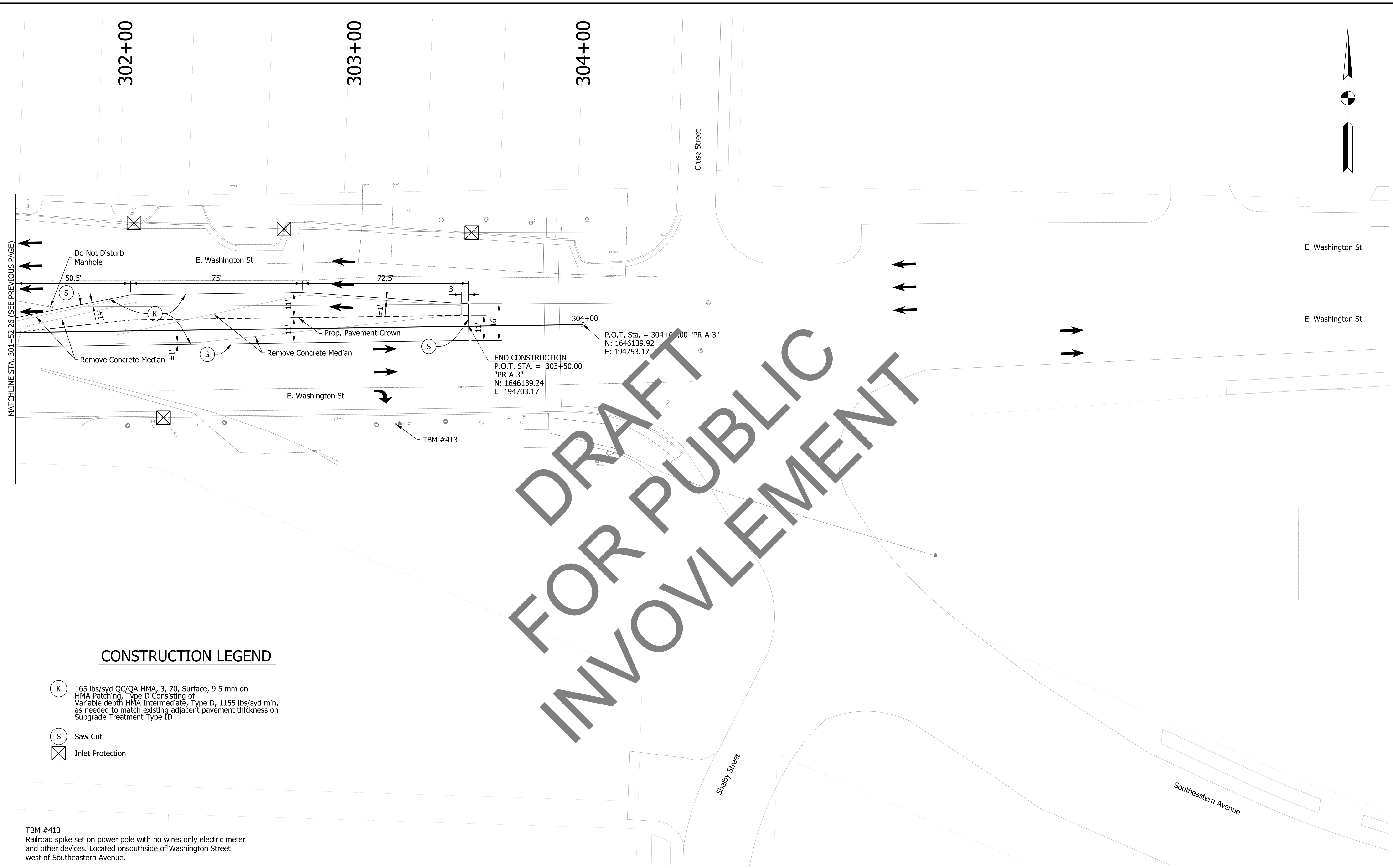
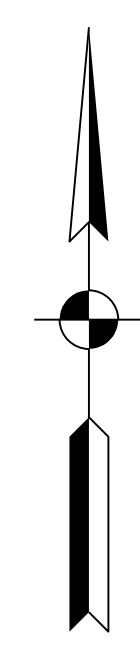


RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i> DESIGN ENGINEER	4/6/2020 DATE
DESIGNED: _____	HER	DRAWN: _____
		NSX
CHECKED: _____	MKM	CHECKED: _____
		MKM




**INDIANA
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET AT SOUTHWESTERN AVENUE
CONSTRUCTION DETAILS**

HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001153	
SURVEY BOOK	SHEETS	CD-01
ELECTRONIC	9 of	72
CONTRACT	PROJECT	
T-42856	1902693	



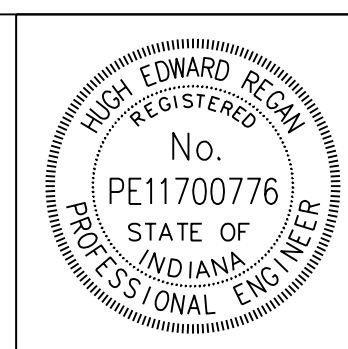
CONSTRUCTION LEGEND

-  165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5 mm on HMA Patching, Type D Consisting of: Variable depth HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match existing adjacent pavement thickness on Subgrade Treatment Type ID
-  Saw Cut
-  Inlet Protection

TBM #413
Railroad spike set on power pole with no wires only electric meter and other devices. Located on southside of Washington Street west of Southeastern Avenue.

DRAFT FOR PUBLIC INVOLVEMENT

jsburton
4/6/2020 1:00:30 pm
model-Sheet1
file: c:\cadd\ib\pwr\jsburton\grate\akes\002\22758174066-rd-s-rcd03.dgn

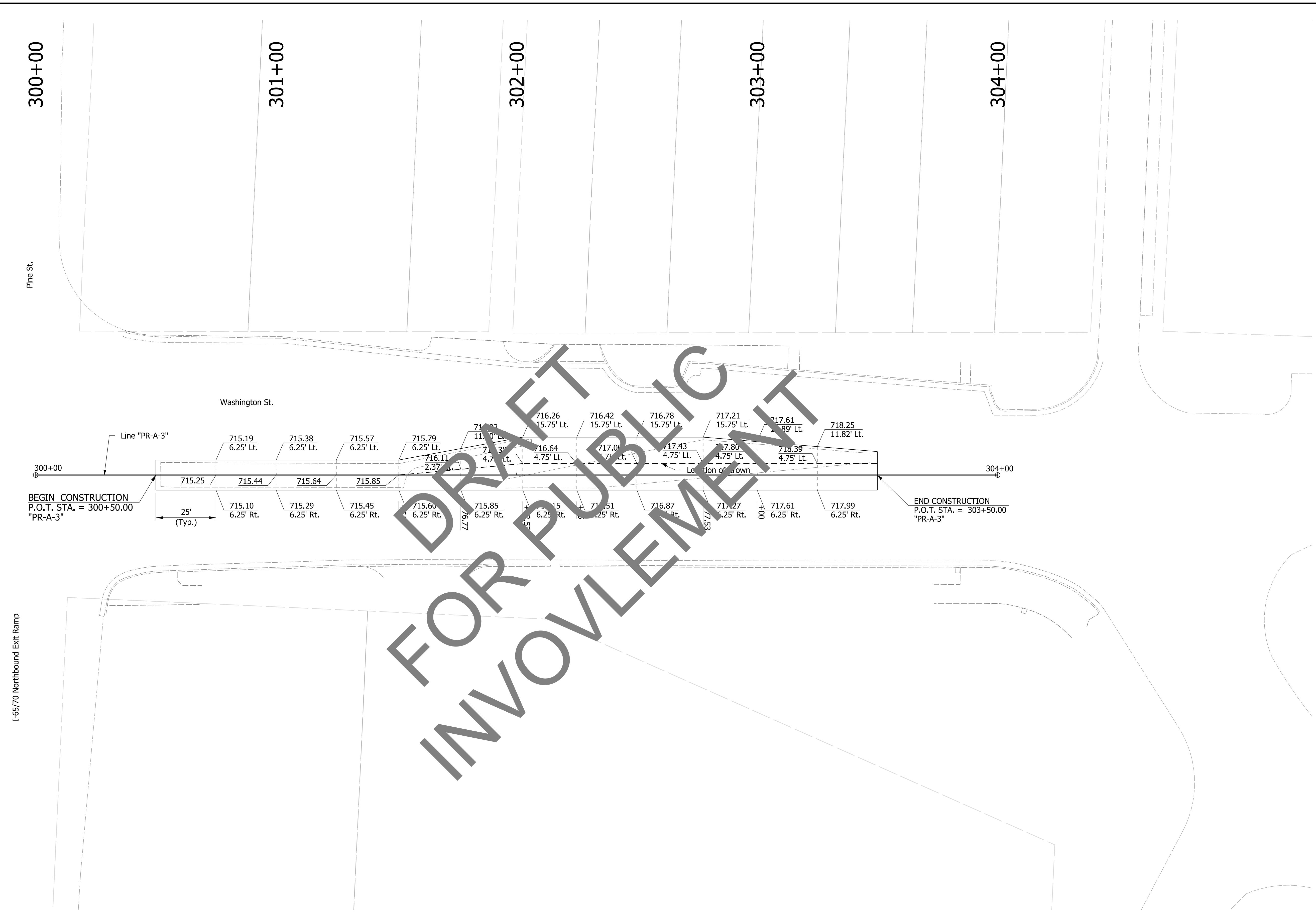
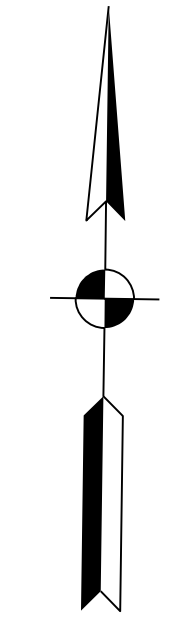


RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	HER	DRAWN:	NSX	
CHECKED:	MKM	CHECKED:	MKM	

INDIANA DEPARTMENT OF TRANSPORTATION

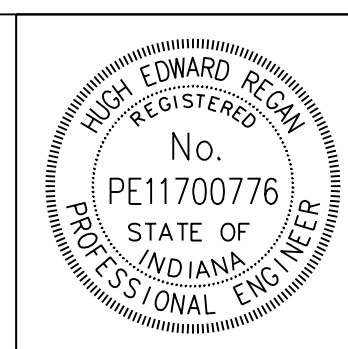
WASHINGTON STREET AT SOUTHWESTERN AVENUE CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001153	
SURVEY BOOK	SHEETS	CD-02
ELECTRONIC	10	of 72
CONTRACT	PROJECT	
T-42856	1902693	



DRAFT FOR PUBLIC INVOLVEMENT

jsburton
 4/6/2020 1:00:37 pm
 model:Sheet1
 file: c:\caddlib\pwr\jsburton\grateakes\00232758174066-ra-s-rd03.dgn



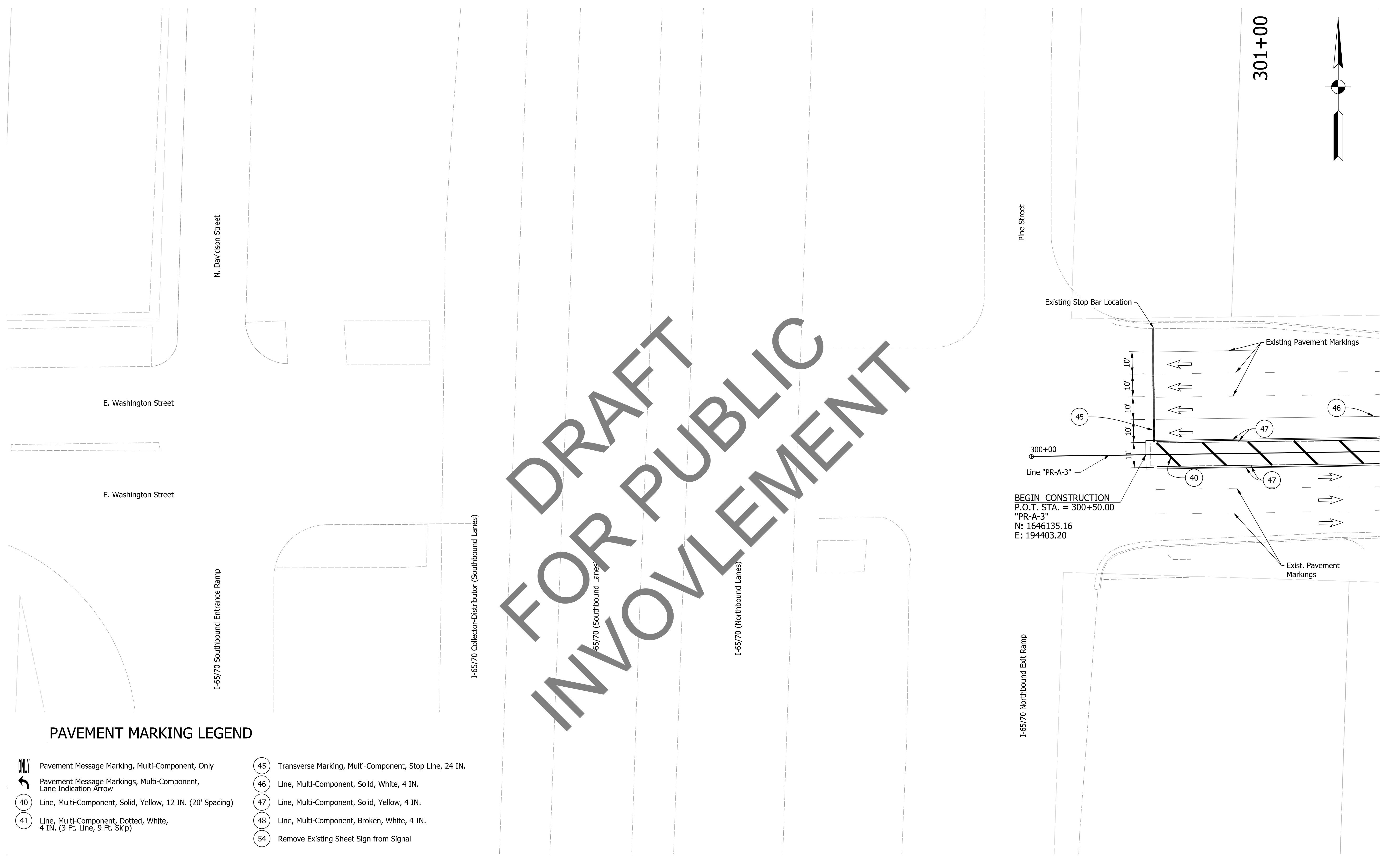
RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	DATE
DESIGNED:	HER	DRAWN:	NSX
CHECKED:	MKM	CHECKED:	MKM

INDIANA
 DEPARTMENT OF TRANSPORTATION

 WASHINGTON STREET AT SOUTHWESTERN AVENUE
 SPOT ELEVATION DETAIL

HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001153	
SURVEY BOOK	SHEETS	ID-01
ELECTRONIC	11	of 72
CONTRACT	PROJECT	
T-42856	1902693	

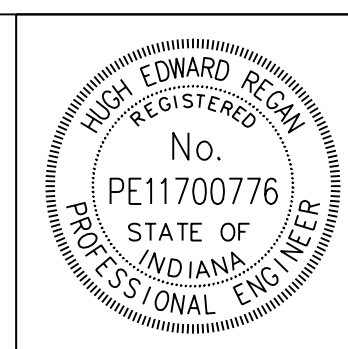
DRAFT FOR PUBLIC INVOLVEMENT



PAVEMENT MARKING LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> Pavement Message Marking, Multi-Component, Only Pavement Message Markings, Multi-Component, Lane Indication Arrow Line, Multi-Component, Solid, Yellow, 12 IN. (20' Spacing) Line, Multi-Component, Dotted, White, 4 IN. (3 Ft. Line, 9 Ft. Skip) | <ul style="list-style-type: none"> Transverse Marking, Multi-Component, Stop Line, 24 IN. Line, Multi-Component, Solid, White, 4 IN. Line, Multi-Component, Solid, Yellow, 4 IN. Line, Multi-Component, Broken, White, 4 IN. Remove Existing Sheet Sign from Signal |
|--|---|

NOTES:
1. Remove existing markings in conflict with proposed markings.



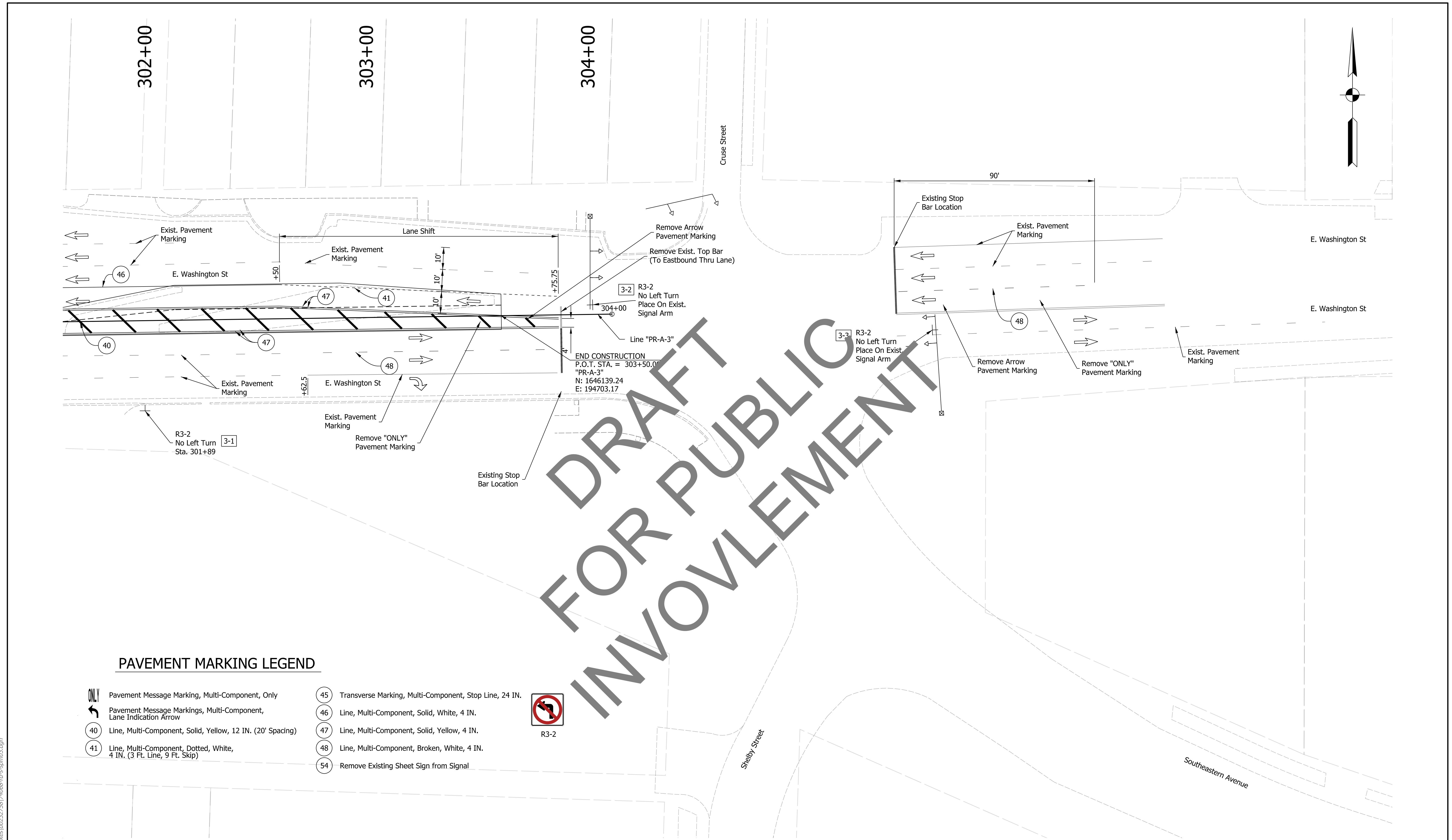
RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	HER	DRAWN:	NSX	
CHECKED:	MKM	CHECKED:	MDC	

INDIANA DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT SOUTHWESTERN AVENUE SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001153
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 72
CONTRACT	PROJECT
T-42856	1902693

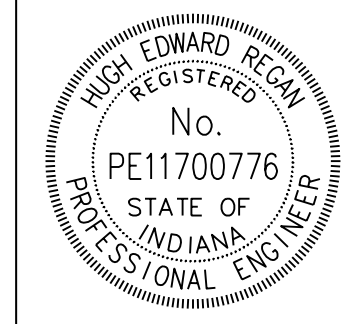
jsburton 4/6/2020 1:00:52 pm
 model: Sheet42
 file: c:\cadd\ib\pwr\jsburton\grate\akes\002\27\281\74066-rd-s-spm03.dgn



PAVEMENT MARKING LEGEND

- Pavement Message Marking, Multi-Component, Only
- Pavement Message Markings, Multi-Component, Lane Indication Arrow
- Line, Multi-Component, Solid, Yellow, 12 IN. (20' Spacing)
- Line, Multi-Component, Dotted, White, 4 IN. (3 Ft. Line, 9 Ft. Skip)
- Transverse Marking, Multi-Component, Stop Line, 24 IN.
- Line, Multi-Component, Solid, White, 4 IN.
- Line, Multi-Component, Solid, Yellow, 4 IN.
- Line, Multi-Component, Broken, White, 4 IN.
- Remove Existing Sheet Sign from Signal
- R3-2

NOTES:
 1. Remove existing markings in conflict with proposed markings.



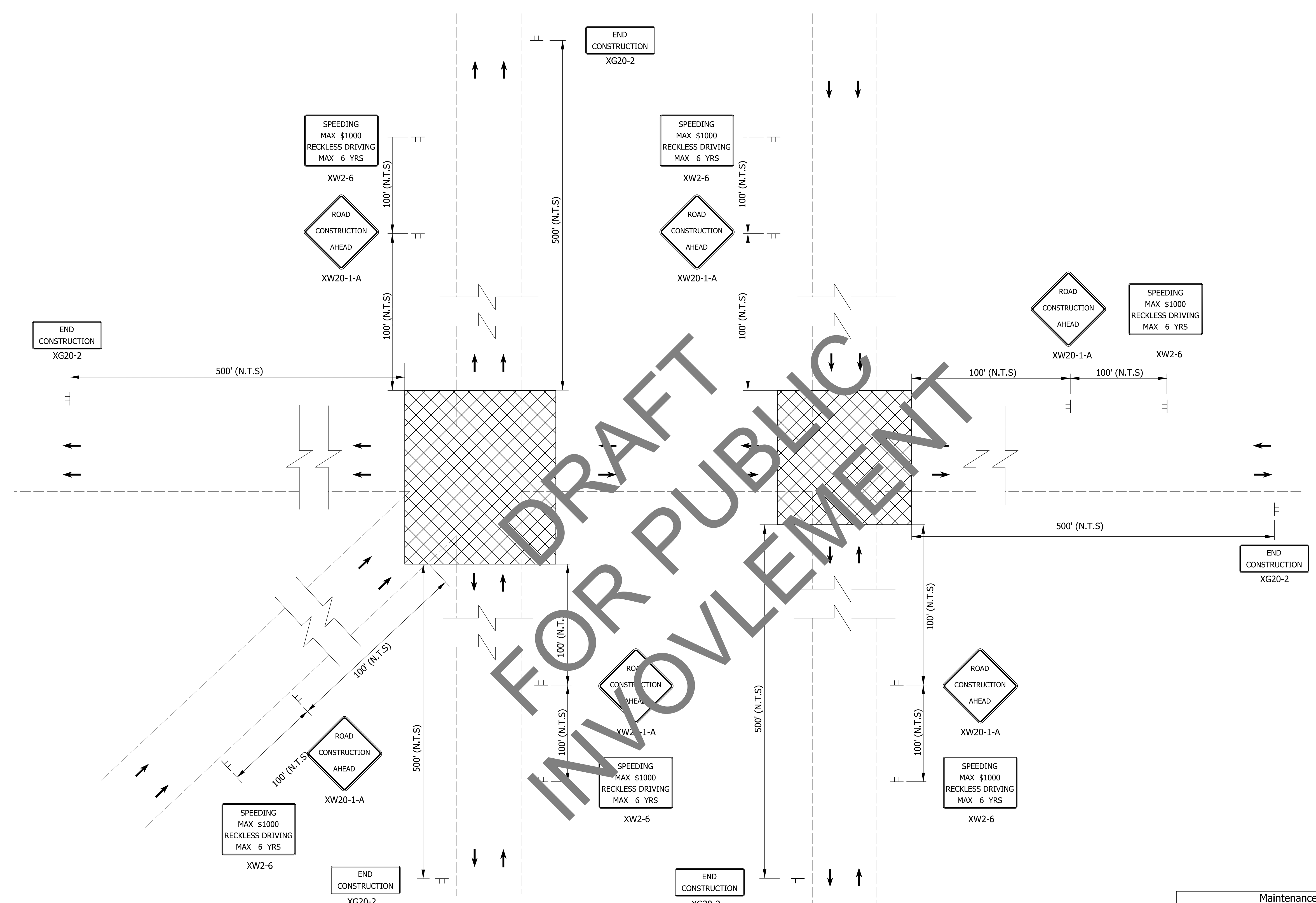
RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	DATE
DESIGNED:	HER	DRAWN:	NSX
CHECKED:	MKM	CHECKED:	MDC

INDIANA DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT SOUTHEASTERN AVENUE SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001153
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 72
CONTRACT	PROJECT
T-42856	1902693

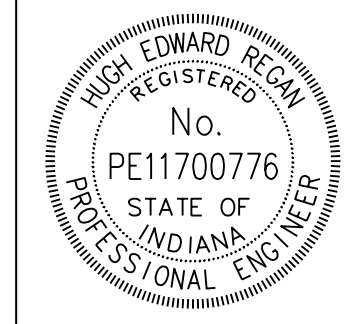
jsburton
 4/6/2020 1:00:55 pm
 model:Sheet1
 file: c:\cadd\ib\pwr\jsburton\grmat\akes\002\32758174\066-rd-s-spm03.dgn



Maintenance Of Traffic Summary		
Location	Posted Speed (MPH)	Construction Sign, A (EACH)
Washington/New Jersey/East	25/25/30	17

Maintenance Of Traffic Legend

	Construction Area
	Direction Of Traffic
	Construction Sign, A



RECOMMENDED FOR APPROVAL *Hugh Edward Regan* 4/6/2020
 DESIGN ENGINEER DATE

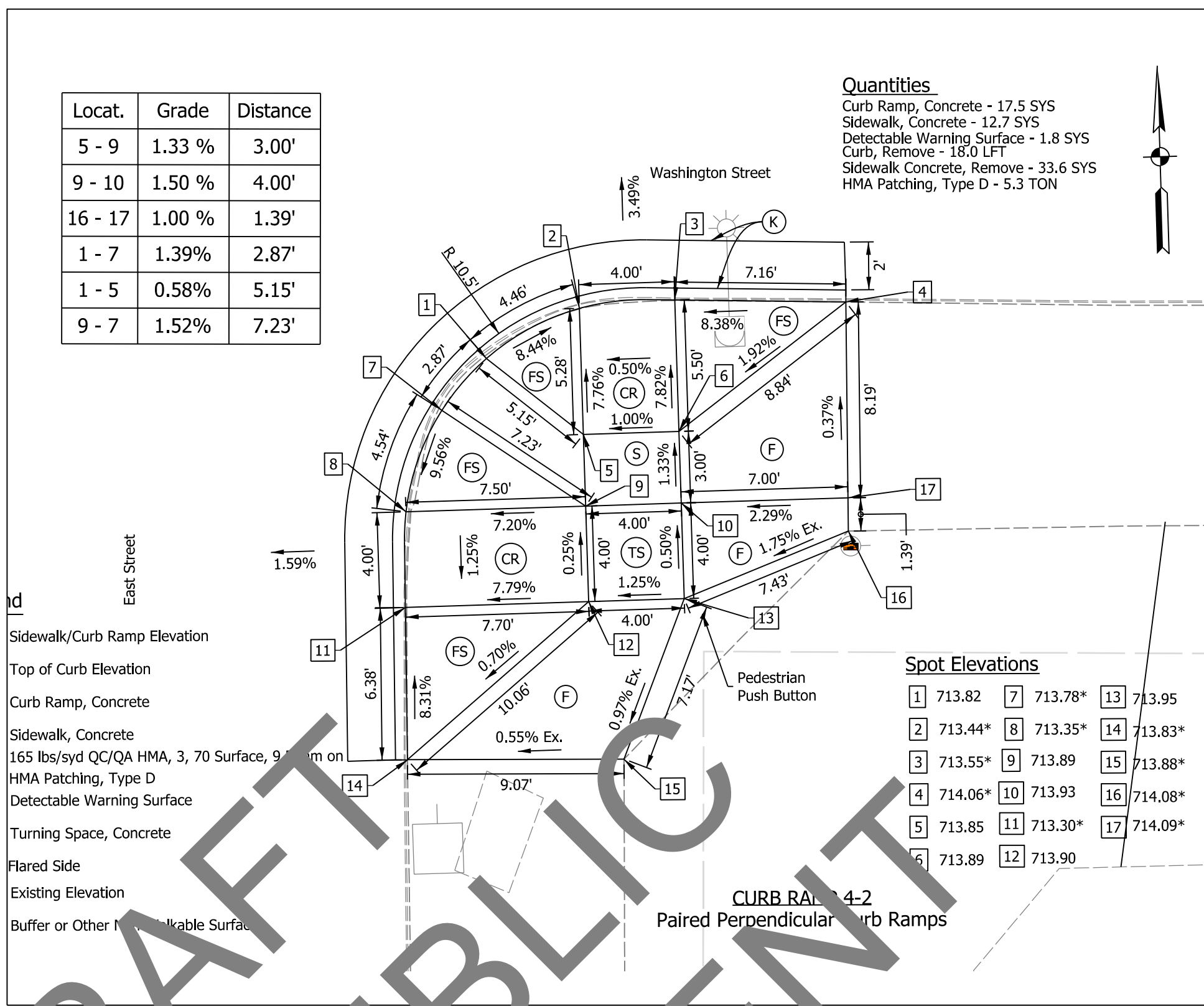
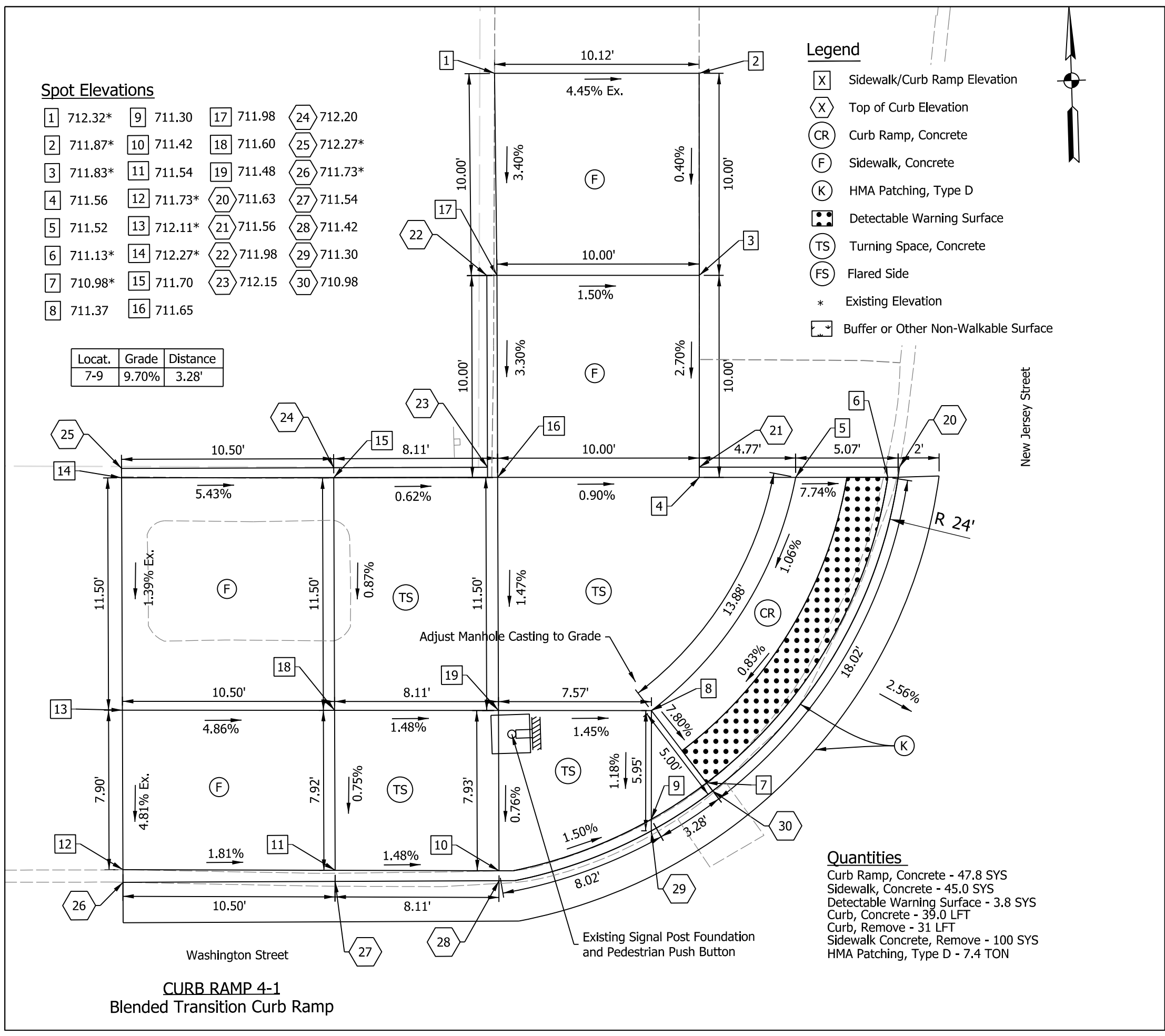
DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

INDIANA DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT NEW JERSEY/EAST
 MAINTENANCE OF TRAFFIC

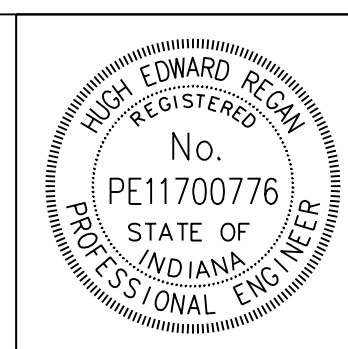
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS MOT-04
ELECTRONIC	15 of 72
CONTRACT	PROJECT
T-42856	1902693

jshurton
 3/20/2020 9:21:22 am
 model-sheet1
 file: c:\cadd\ib\p\hmb_bkrystal\greatlakes\0232760\74068-rd-s-mat04.dgn



DRAFT FOR PUBLIC INVOLVEMENT

hregan 3/31/2020 10:20:42 am model-Sheet1 file: c:\cadd\ib\pwr\hregan\imgreat Lakes\02232760\71066f-ds-cr004.dgn



RECOMMENDED FOR APPROVAL *Hugh Edward Regan* 4/6/2020
DESIGN ENGINEER DATE

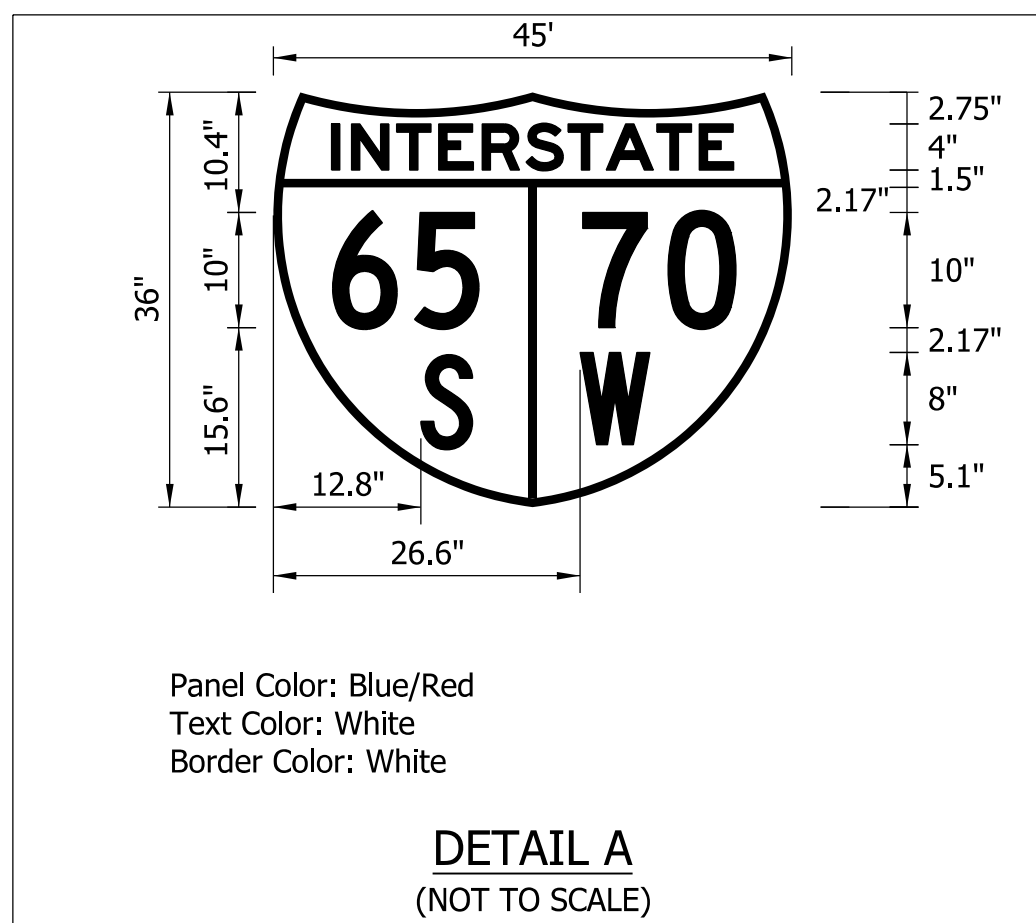
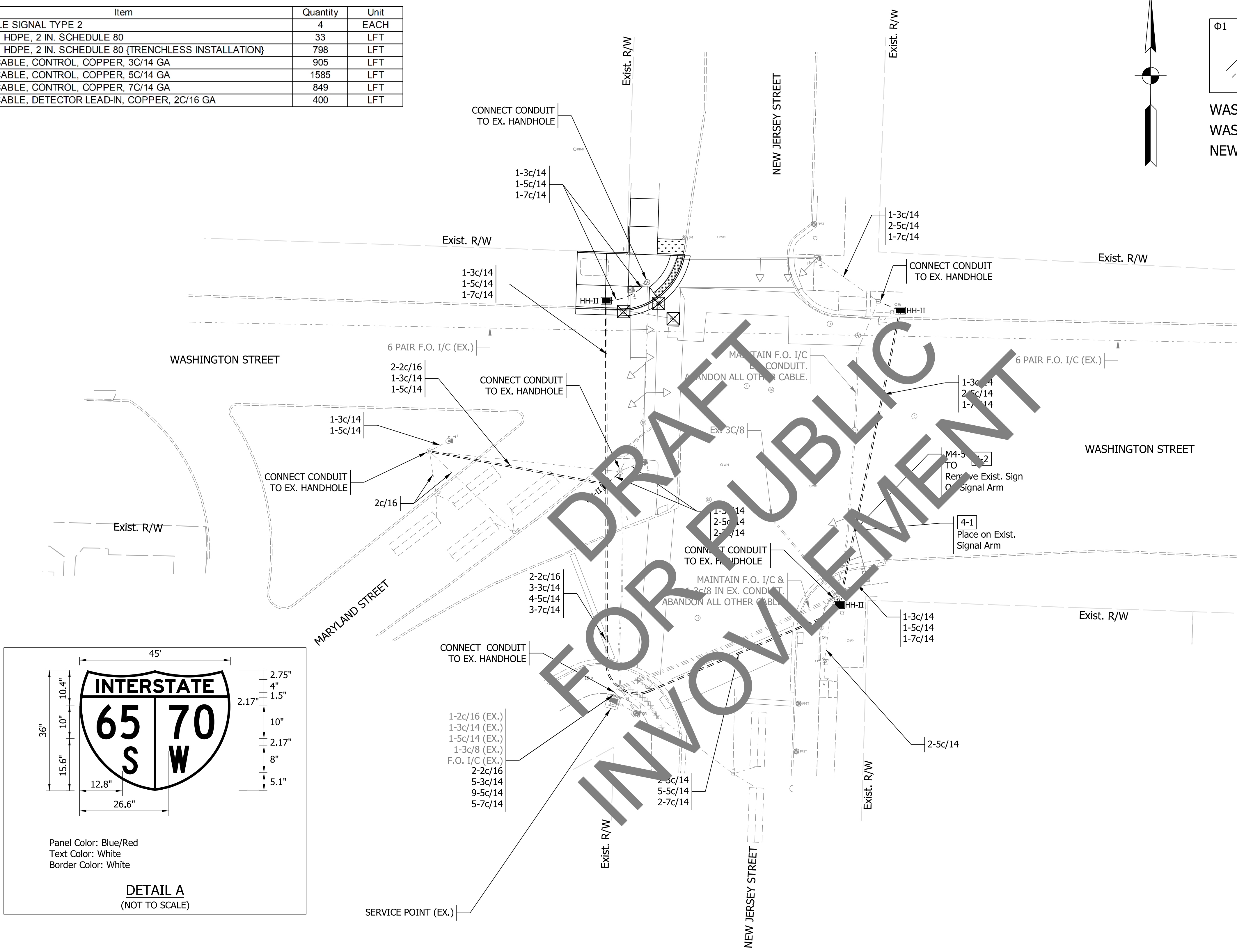
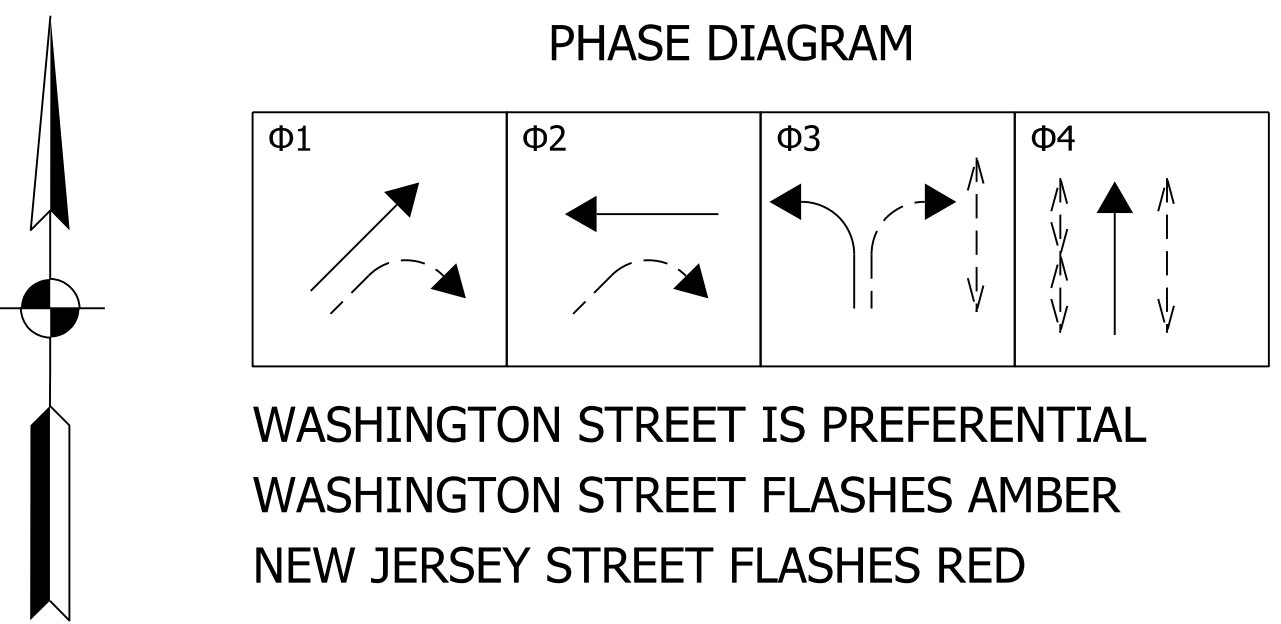
DESIGNED: MCS DRAWN: JSB
CHECKED: MDC CHECKED: MDC

INDIANA
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT NEW JERSEY/EAST
CURB RAMP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS CRD-01
ELECTRONIC	16 of 72
CONTRACT	PROJECT
T-42856	1902693

Item #	Item	Quantity	Unit
805-11744	HANDHOLE SIGNAL TYPE 2	4	EACH
805-11815	CONDUIT, HDPE, 2 IN. SCHEDULE 80	33	LFT
805-11815	CONDUIT, HDPE, 2 IN. SCHEDULE 80 (TRENCHLESS INSTALLATION)	798	LFT
805-78480	SIGNAL CABLE, CONTROL, COPPER, 3C/14 GA	905	LFT
805-78485	SIGNAL CABLE, CONTROL, COPPER, 5C/14 GA	1585	LFT
805-78490	SIGNAL CABLE, CONTROL, COPPER, 7C/14 GA	849	LFT
805-78510	SIGNAL CABLE, DETECTOR LEAD-IN, COPPER, 2C/16 GA	400	LFT

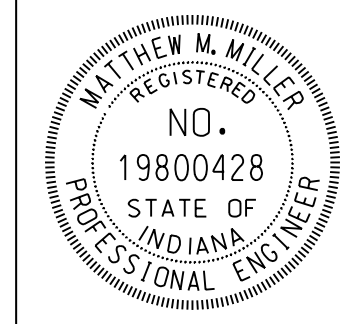


- LEGEND**
- HANDHOLE, SIGNAL
 - ⊗ EX. HANDHOLE, SIGNAL
 - 2" HDPE CONDUIT
 - EX. CONDUIT
 - ⊠ EX. MAST ARM, SIGNAL
 - ← EX. TRAFFIC SIGNAL HEAD, 3 FACE, 12"
 - ⋮ EX. TRAFFIC SIGNAL LOOP
 - ⊠ INLET PROTECTION

NOTE: EXISTING INFRASTRUCTURE SHOWN GRAYSHADE. PROPOSED INFRASTRUCTURE SHOWN BOLD.

Conduit Installation Notes:

- Where new conduit is shown, existing conduit shall first be tested to identify locations of damage. Existing conduit shall be repaired instead of replaced if directed by the engineer. Existing conduit that is no longer used shall be abandoned in place.
- Remove/replace sidewalk to facilitate installation of conduit to existing hand holes or traffic signal foundations.



RECOMMENDED FOR APPROVAL: *Matthew Miller* DESIGN ENGINEER DATE: 4/6/2020

DESIGNED: JRM DRAWN: JRM
 CHECKED: RH CHECKED: RH

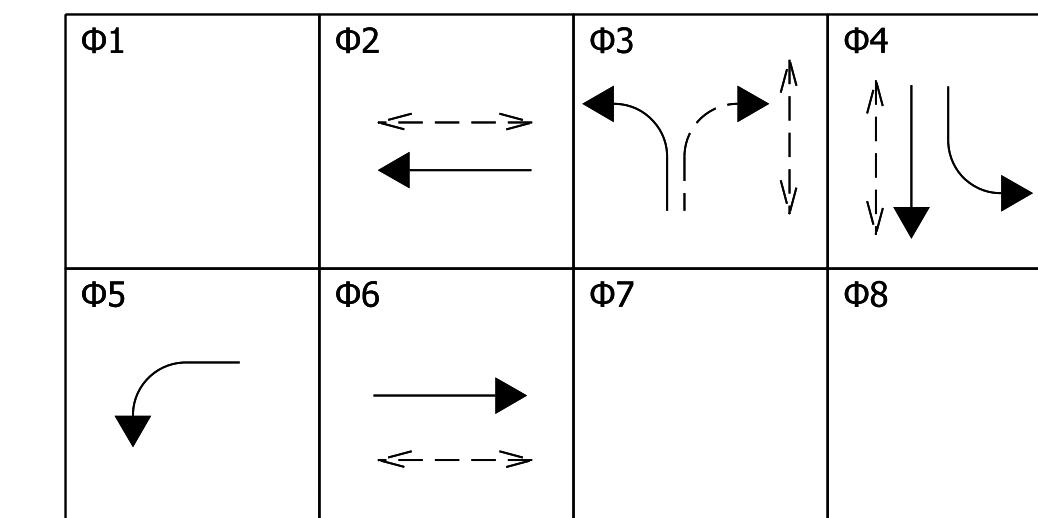
INDIANA DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET/MARYLAND ST AT NEW JERSEY ST
 SIGNAL DETAIL INTERSECTION CONTROL #009150

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS SG-01
ELECTRONIC	17 of 72
CONTRACT	PROJECT
T-42856	1902693

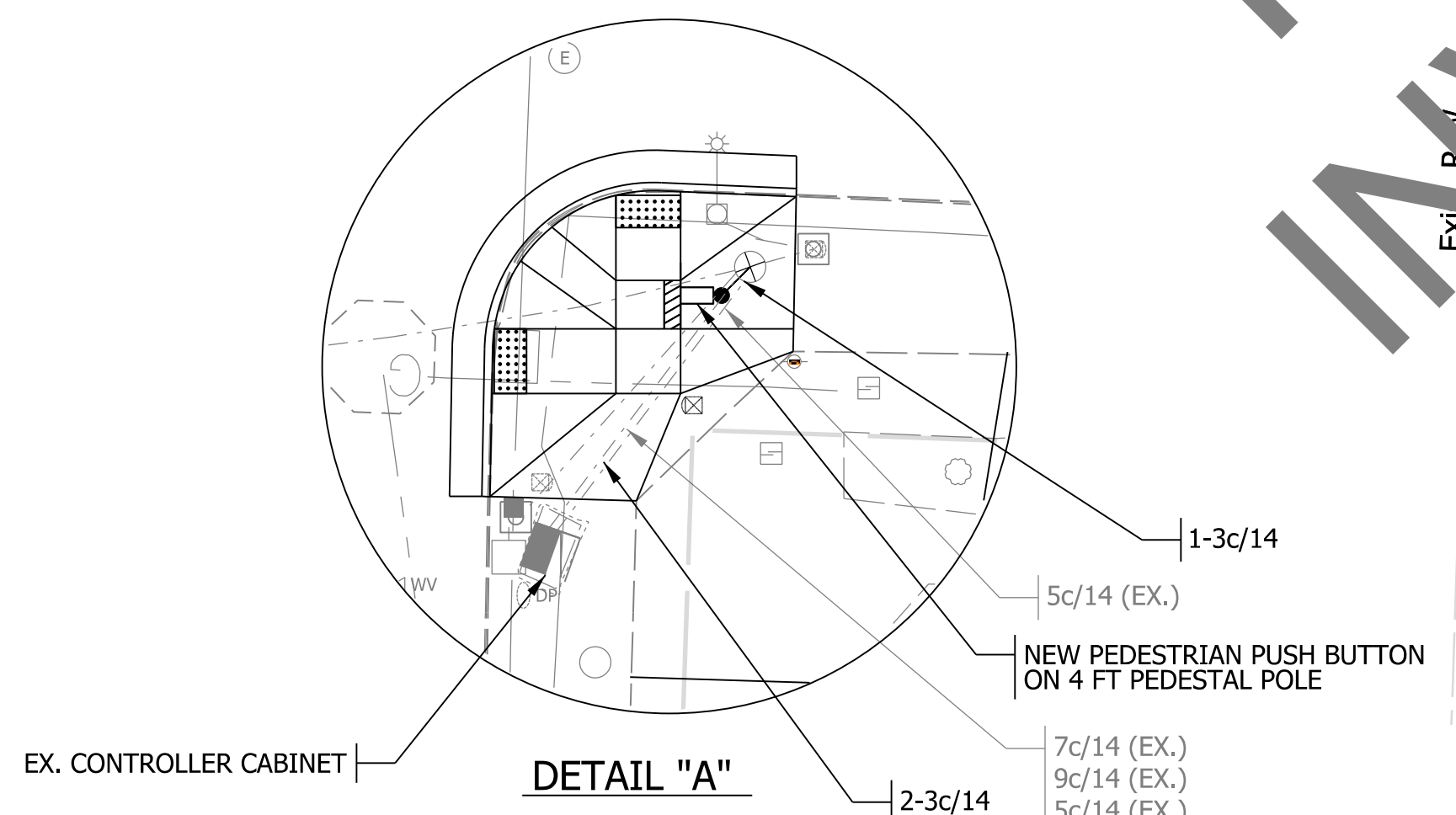
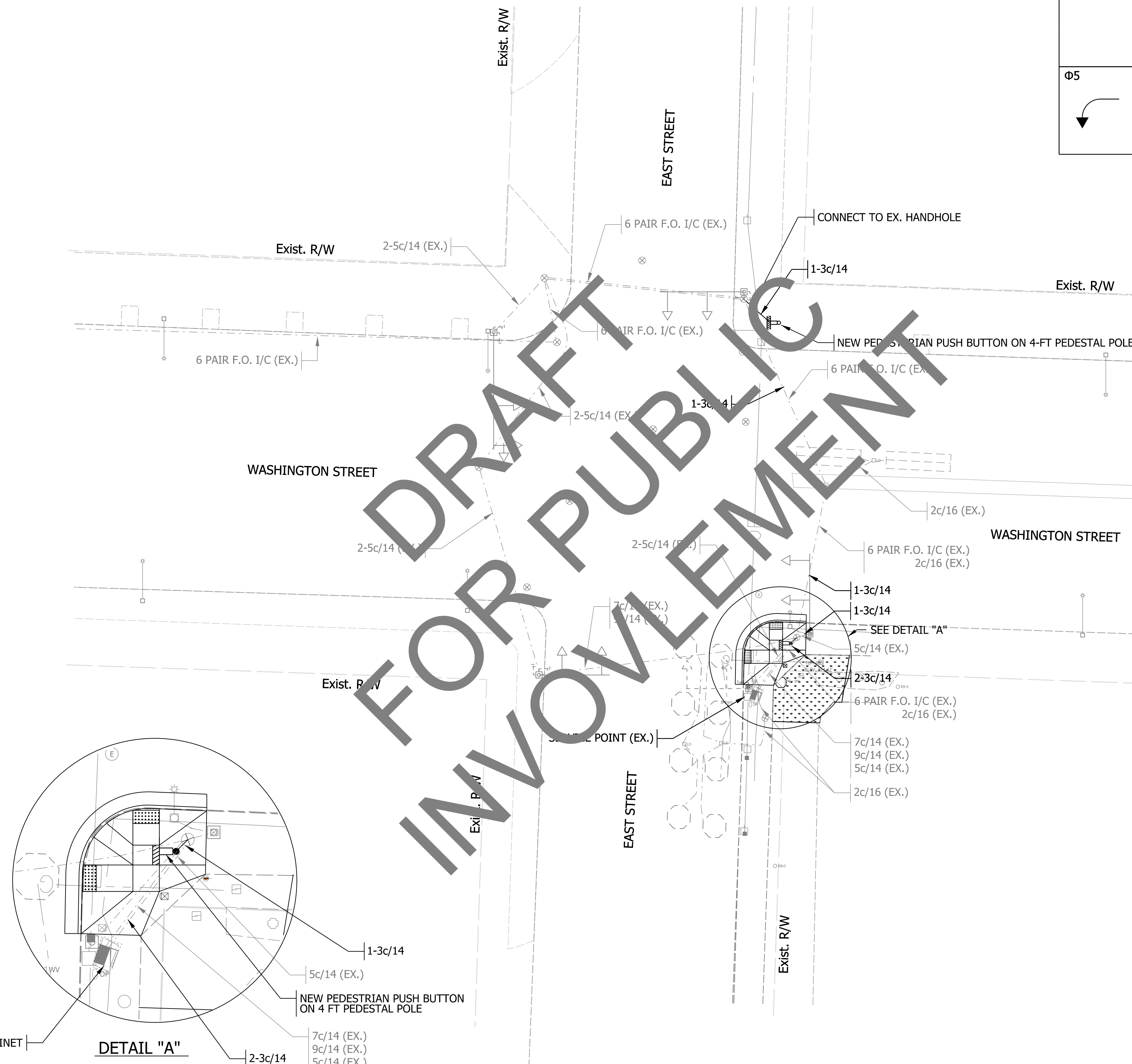
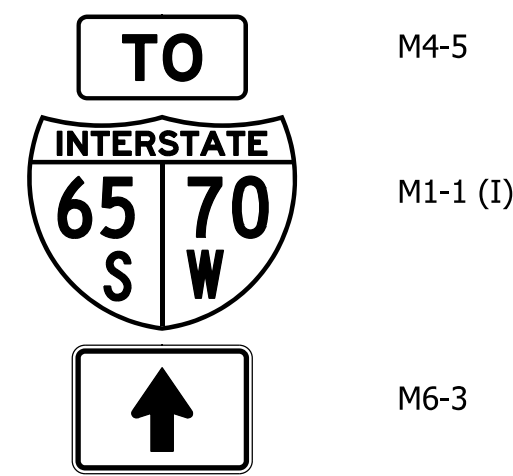
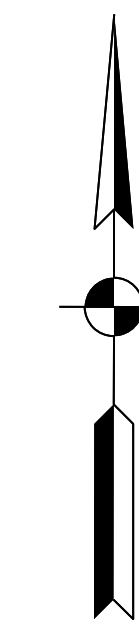
jmatson 3/20/2020 8:53:56 am
 model: Sheet1
 file: c:\candib\p\jmatson\greatakes\0222760174068-rds-sg01.dgn

Item #	Item	Quantity	Unit
805-02645	SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.	2	EACH
805-05405	SIGNAL POLE, PEDESTAL, 4FT	2	EACH
805-06595	CONDUIT, PVC, 2 IN.	14	LFT
805-78370	PEDESTRIAN PUSH BUTTON, NON-APS	2	EACH
805-78480	SIGNAL CABLE, CONTROL, COPPER, 3C/14	208	LFT

PHASE DIAGRAM



FLASH: ALL RED



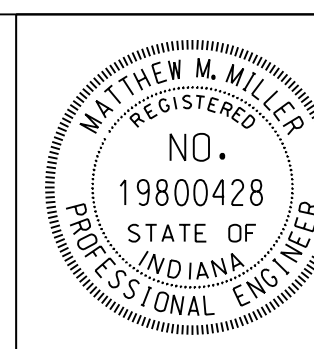
LEGEND

- PEDESTRIAN PUSH BUTTON & SIGN
- HANDHOLE, SIGNAL
- EX. HANDHOLE, SIGNAL
- 2" HDPE CONDUIT
- EX. CONDUIT
- EX. MAST ARM, SIGNAL
- EX. TRAFFIC SIGNAL HEAD, 3 FACE, 12"
- EX. TRAFFIC SIGNAL HEAD, 5 FACE, 12"
- EX. TRAFFIC SIGNAL LOOP

NOTE: EXISTING INFRASTRUCTURE SHOWN GRAYSHADE. PROPOSED INFRASTRUCTURE SHOWN BOLD.

Pedestrian Push Button Installation Notes:

1. Push button to be located per INDOT Standard Drawing Nos. E805-PPBA-01 and E805-PPBA-02.
2. Push buttons must be located to avoid existing street lights and utilities.
3. Remove/replace sidewalk to facilitate installation of 2" conduit to pedestrian push button poles.
4. Curb ramps on Northeast corner to be installed by property owner. Coordinate with Indianapolis DPW for final location and access to corner, if necessary.



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	JRM	DRAWN:	JRM	
CHECKED:	RH	CHECKED:	RH	

INDIANA
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET AT EAST STREET
SIGNAL DETAIL
INTERSECTION CONTROL #003510

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS SG-02
ELECTRONIC	18 of 72
CONTRACT	PROJECT
T-42856	1902693

jmatson
 3/20/2020 8:53:56 am
 model:Sheet2
 file:c:\additib\p\jmatson\greatakes\02222760\74066-rd-s-sg04.dgn

SHEET SIGN & POST SUMMARY

SIGN														POST											REMARKS		
SIGN NUMBER	SIGN LOCATION (STA.)	LT / RT	OFFSET FT.	SIGN CODE	Existing, Keep	Existing, Relocate	Existing, Remove	New	SIGN SIZE (W x H) (IN x IN)	GROUND - MOUNTED SIGN AREA (ft ²)			MOUNTED ON PANEL SIGN, AREA (ft ²)	U CHANNEL				SQUARE									
										0.080"	0.100"	0.125"		0.080"	POST LENGTH		2.5" X 2.5" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)				
															1	2	REINFORCED ANCHOR			REINFORCED ANCHOR			REINFORCED ANCHOR				
										POST LENGTH (FT.)		POST LENGTH (FT.)		POST LENGTH (FT.)		POST LENGTH (FT.)		POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)			
1	2	TYPE "A"	TYPE "B"	1	2	TOTAL	1	2	TOTAL	1	TOTAL																
4 - Washington St. at New Jersey / East St.																											
4-1	East Signal			M4-5				X	24 x 12	2.00																	
				M1-1 (I)				X	45 x 36		11.25																
				M6-3				X	21 x 15	2.19																	
4-2	East Signal			Ex: M4-5				X																			
TOTALS					0	0	1	3		4.2	11.3	0.0	0			0.0	0.0					0.0					

TEMPORARY EROSION CONTROL TABLE

LOCATION	LOCATION			TEMPORARY INLET PROTECTION
	LEFT	MEDIAN	RIGHT	
	EACH			
DES. 1902693				
Curb Inlet	X			1
Pavement Inlet	X			1
Pavement Inlet	X			1
TOTAL				3

DRAFT FOR PUBLIC INVOLVEMENT

jkhayes
 1/1/2001 12:00:00 am
 model:Sheet1
 file: c:\cad\dlb\pwr\inspence\pwr\great_lakes\td232760\74066-rd-s-tbl04.dgn

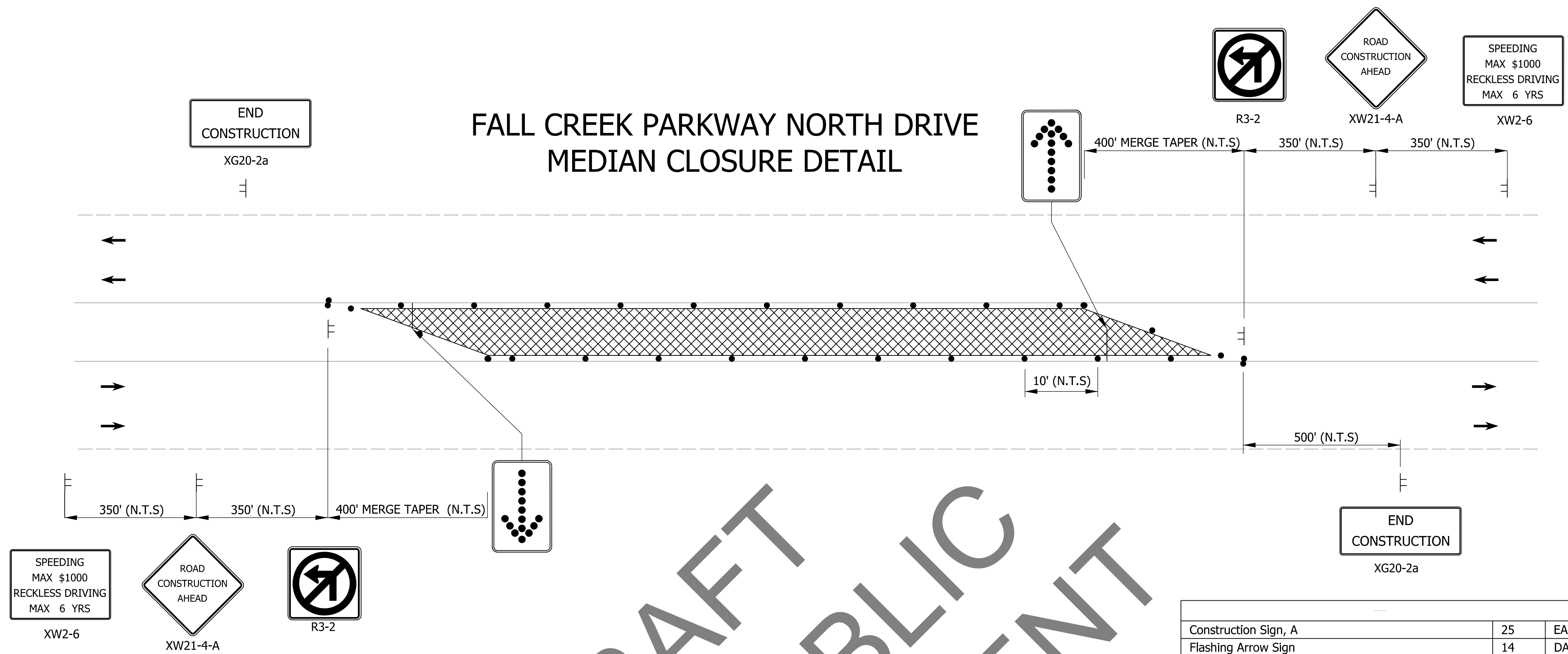


RECOMMENDED FOR APPROVAL	<i>Hugh Edward Regan</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	JRM	DRAWN:	JRM	
CHECKED:	RH	CHECKED:	RH	

INDIANA DEPARTMENT OF TRANSPORTATION	
SUMMARY TABLE	

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS TBL-03
ELECTRONIC	19 of 72
CONTRACT	PROJECT
T-42856	1902693

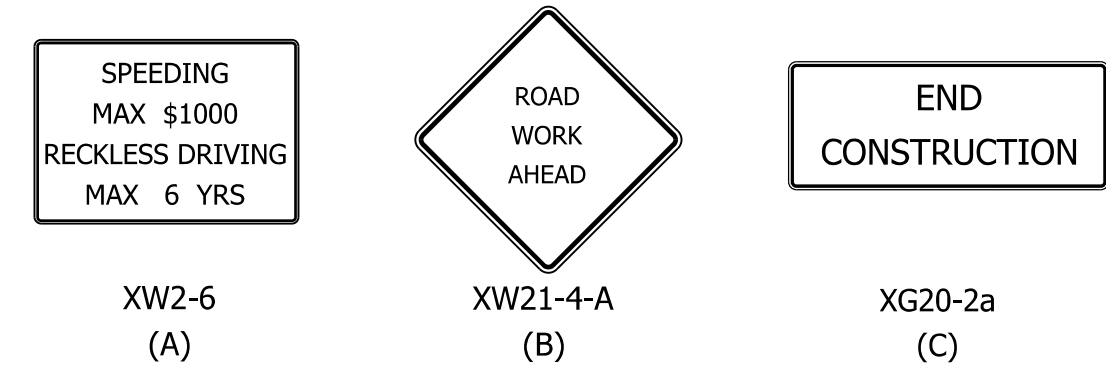
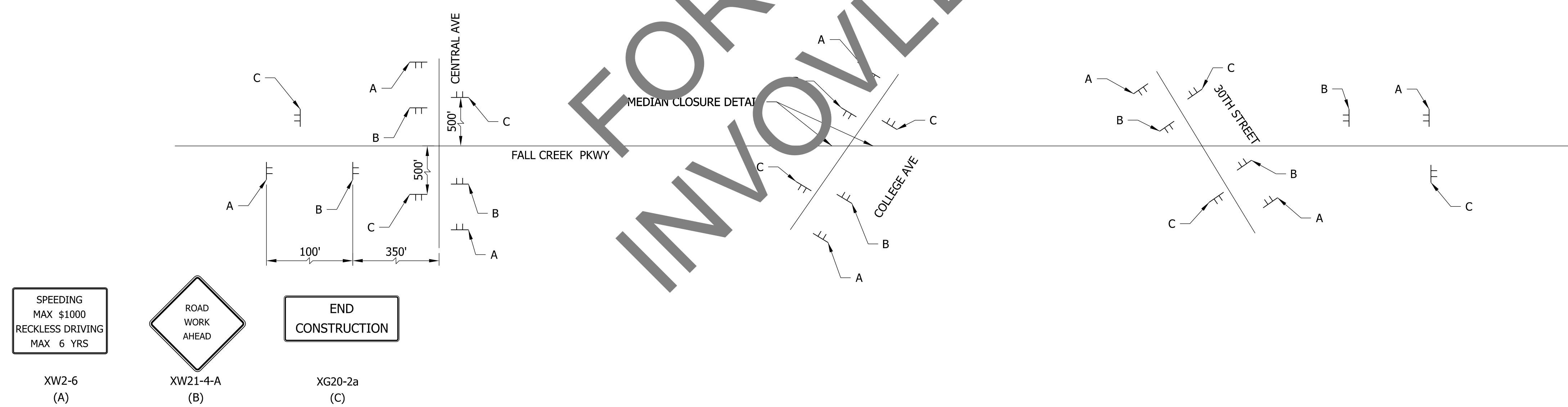
FALL CREEK PARKWAY NORTH DRIVE MEDIAN CLOSURE DETAIL



Construction Sign, A	25	EACH
Flashing Arrow Sign	14	DAY

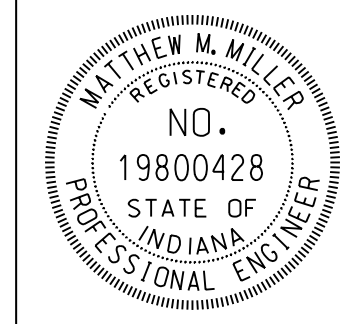
DRAFT FOR PUBLIC INVOLVEMENT

LINE DIAGRAM



Maintenance Of Traffic Legend

	Construction Area
	Direction Of Traffic
	Construction Sign, A
	Flashing Arrow Board



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	4/6/2020	DATE
DESIGNED:	NSX	DRAWN:	NSX
CHECKED:	MCS	CHECKED:	MCS

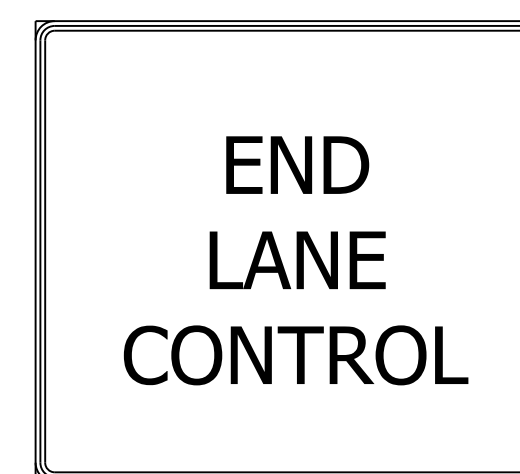
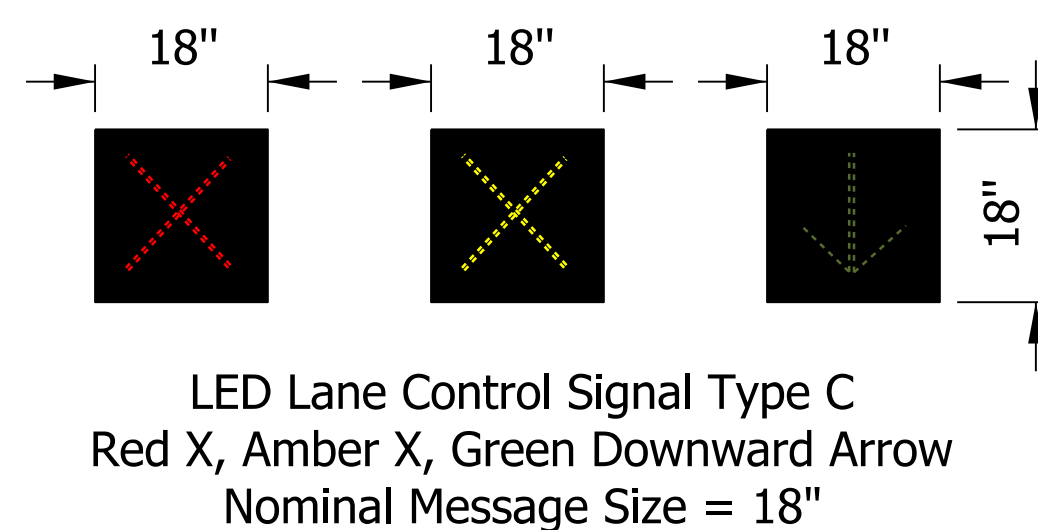
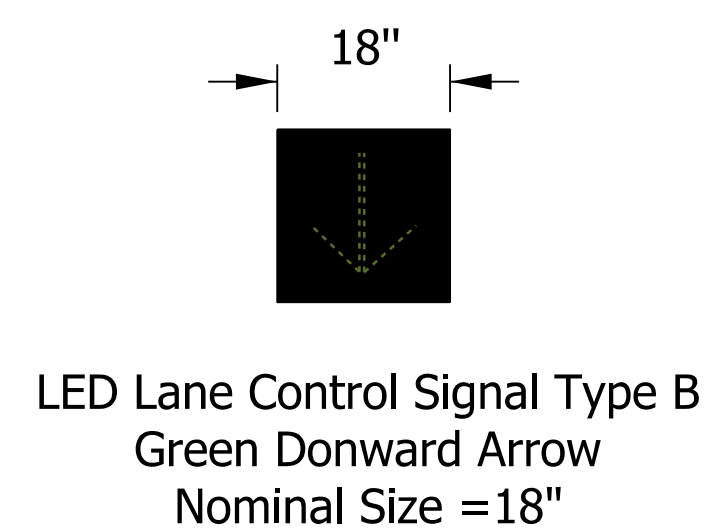
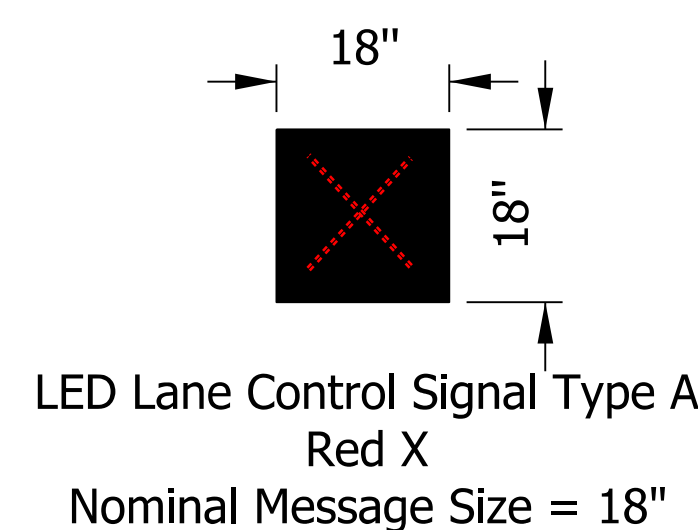
INDIANA
DEPARTMENT OF TRANSPORTATION

FALL CREEK PARKWAY N. DRIVE
CENTRAL AVE. TO 30TH ST.
MAINTENANCE OF TRAFFIC

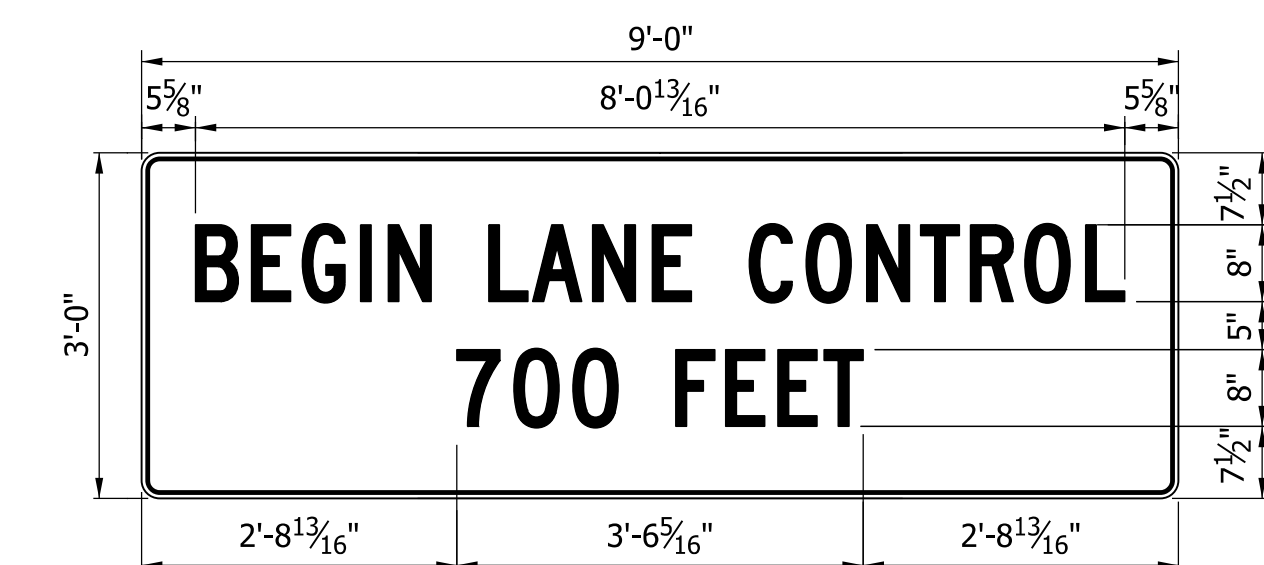
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS MOT-05
ELECTRONIC	20 of 72
CONTRACT	PROJECT
T-42856	1902693

jrfoster 3/20/2020 10:21:22 am model:Sheet1 file:c:\adidib\pvt\jshurton\grateakes\00232762174066-rd-s-mot05.dgn

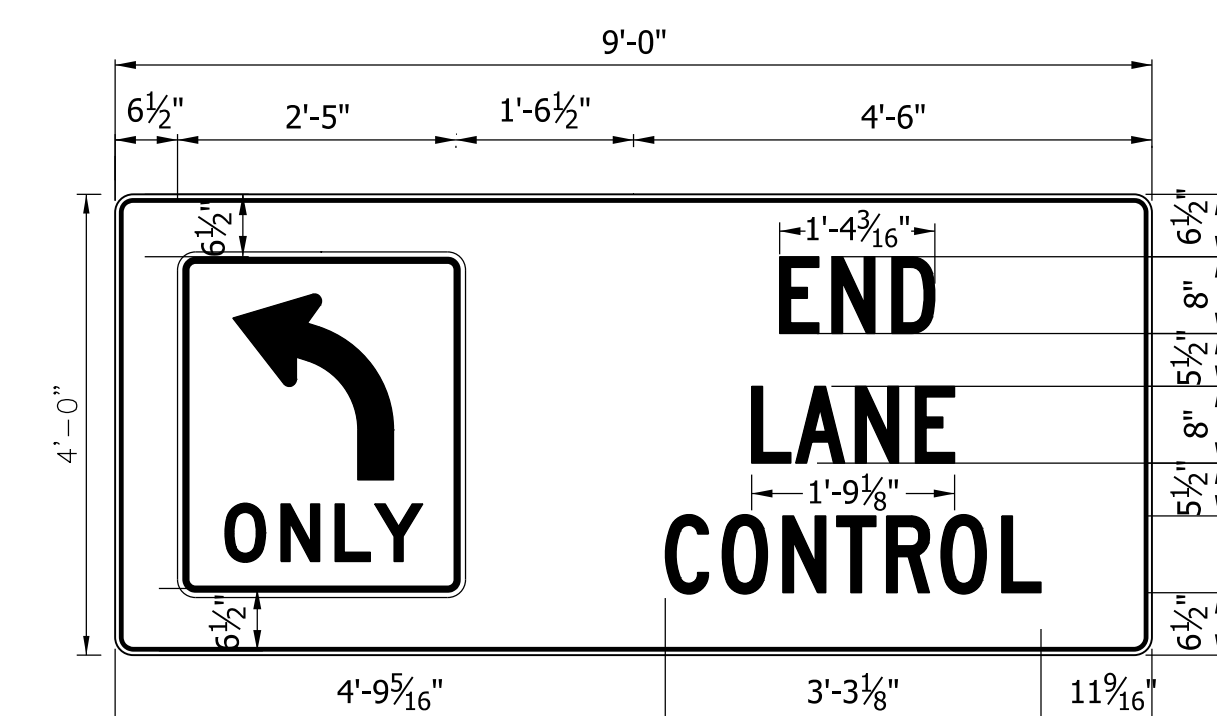
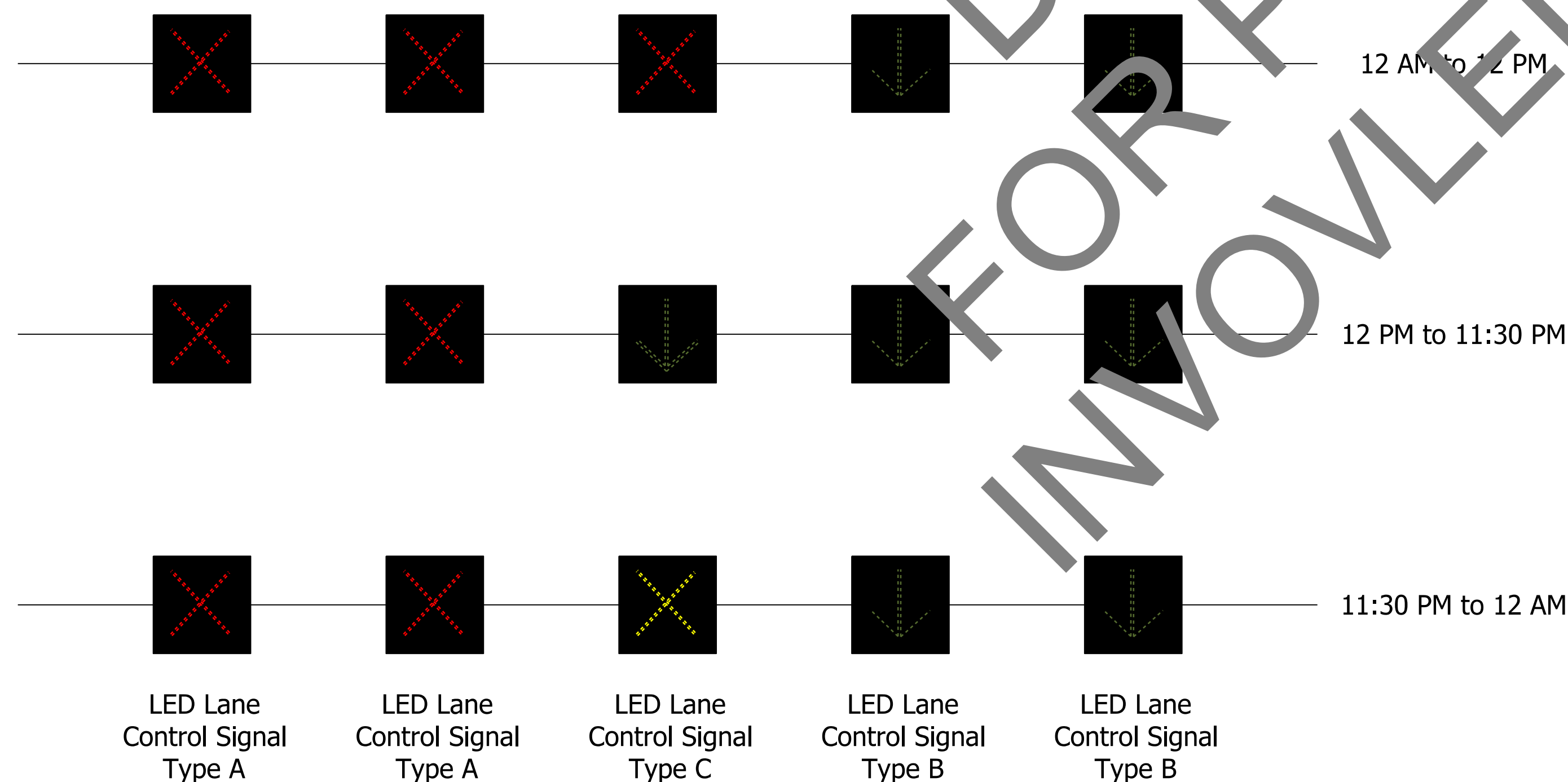
Note:
All LED Signs Shall Conform to Indiana MUTCD Section 6M



SIGN NUMBER	5-22
WIDTH x HIGHT.	9'-0" x 3'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	3.0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black



Lane Control Structure #4 Schedule of Lane Indications
Facing Eastbound Fall Creek Parkway Traffic



SIGN NUMBER	5-48
WIDTH x HIGHT.	9'-0" x 4'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	3.0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

DRAFT FOR PUBLIC INVOLVEMENT

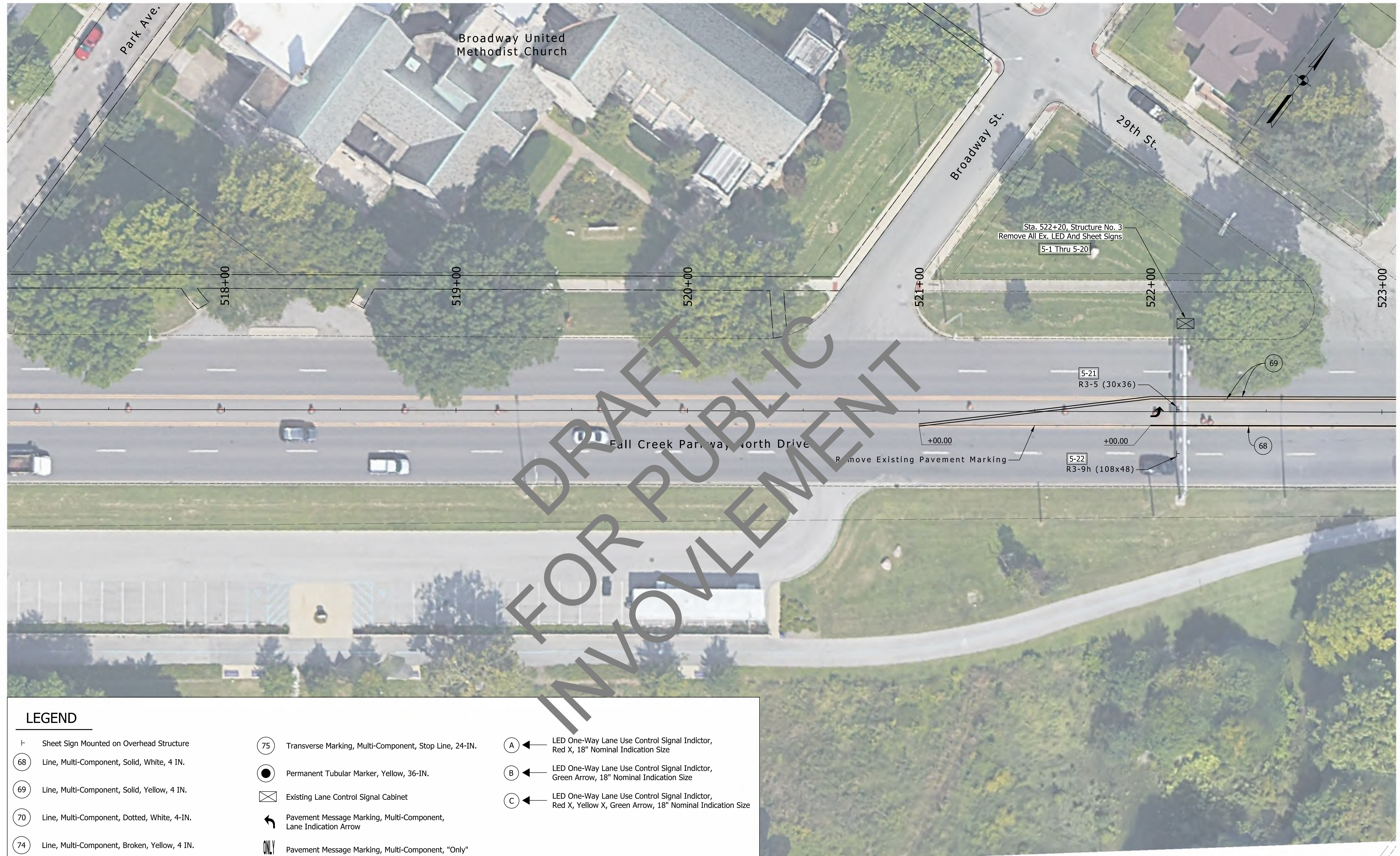
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model-sheet2
file: c:\cadd\ib\p\hmb_jrfoster\greatakes\0232762\74068-rd-s-spm05.dgn

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJS	DRAWN: JRF	
CHECKED: MMM	CHECKED: CJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

FALL CREEK PARKWAY N. DRIVE
CENTRAL AVE. TO 30TH ST.
SIGN DETAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS
ELECTRONIC	21 of 72
CONTRACT	PROJECT
T-42856	1902693



LEGEND		
Sheet Sign Mounted on Overhead Structure	75 Transverse Marking, Multi-Component, Stop Line, 24-IN.	A LED One-Way Lane Use Control Signal Indicator, Red X, 18" Nominal Indication Size
68 Line, Multi-Component, Solid, White, 4 IN.	Permanent Tubular Marker, Yellow, 36-IN.	B LED One-Way Lane Use Control Signal Indicator, Green Arrow, 18" Nominal Indication Size
69 Line, Multi-Component, Solid, Yellow, 4 IN.	Existing Lane Control Signal Cabinet	C LED One-Way Lane Use Control Signal Indicator, Red X, Yellow X, Green Arrow, 18" Nominal Indication Size
70 Line, Multi-Component, Dotted, White, 4-IN.	Pavement Message Marking, Multi-Component, Lane Indication Arrow	
74 Line, Multi-Component, Broken, Yellow, 4 IN.	ONLY Pavement Message Marking, Multi-Component, "Only"	

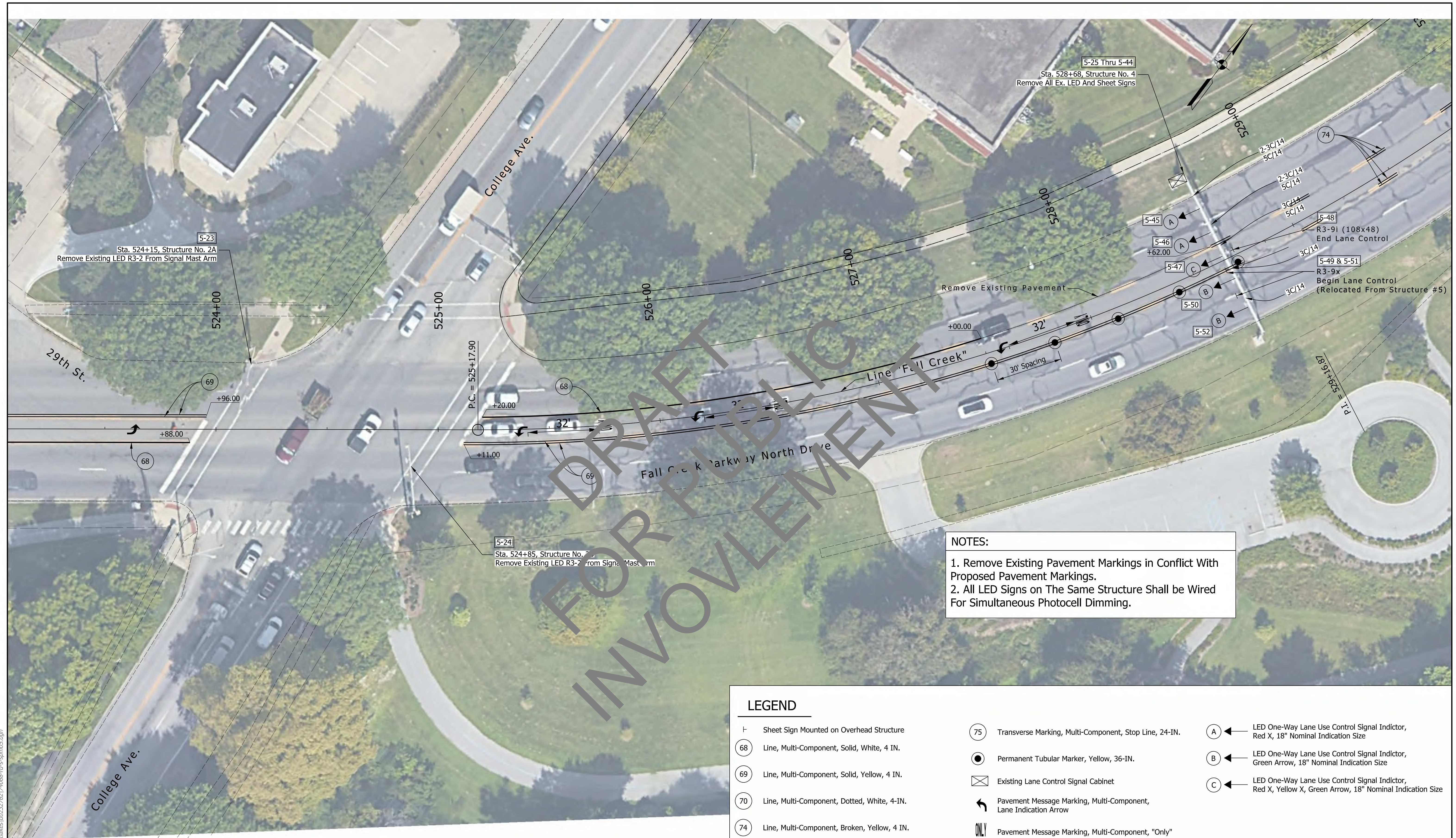
nxkong
 2/12/2020 10:03:55 am
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJS	DRAWN: JRF	
CHECKED: MMM	CHECKED: CJS	

INDIANA DEPARTMENT OF TRANSPORTATION

FALL CREEK PARKWAY N. DRIVE
CENTRAL AVE. TO 30TH ST.
SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS SPM-04
ELECTRONIC	22 of 72
CONTRACT	PROJECT
T-42856	1902693

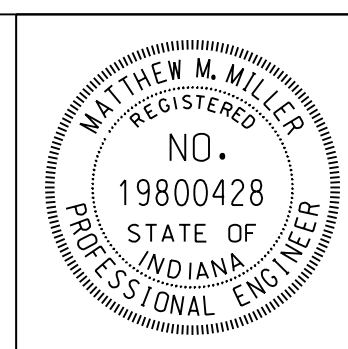


NOTES:

1. Remove Existing Pavement Markings in Conflict With Proposed Pavement Markings.
2. All LED Signs on The Same Structure Shall be Wired For Simultaneous Photocell Dimming.

LEGEND	
⊥	Sheet Sign Mounted on Overhead Structure
⊙ 68	Line, Multi-Component, Solid, White, 4 IN.
⊙ 69	Line, Multi-Component, Solid, Yellow, 4 IN.
⊙ 70	Line, Multi-Component, Dotted, White, 4-IN.
⊙ 74	Line, Multi-Component, Broken, Yellow, 4 IN.
⊙ 75	Transverse Marking, Multi-Component, Stop Line, 24-IN.
●	Permanent Tubular Marker, Yellow, 36-IN.
⊠	Existing Lane Control Signal Cabinet
↩	Pavement Message Marking, Multi-Component, Lane Indication Arrow
ONLY	Pavement Message Marking, Multi-Component, "Only"
⊙ A	LED One-Way Lane Use Control Signal Indicator, Red X, 18" Nominal Indication Size
⊙ B	LED One-Way Lane Use Control Signal Indicator, Green Arrow, 18" Nominal Indication Size
⊙ C	LED One-Way Lane Use Control Signal Indicator, Red X, Yellow X, Green Arrow, 18" Nominal Indication Size

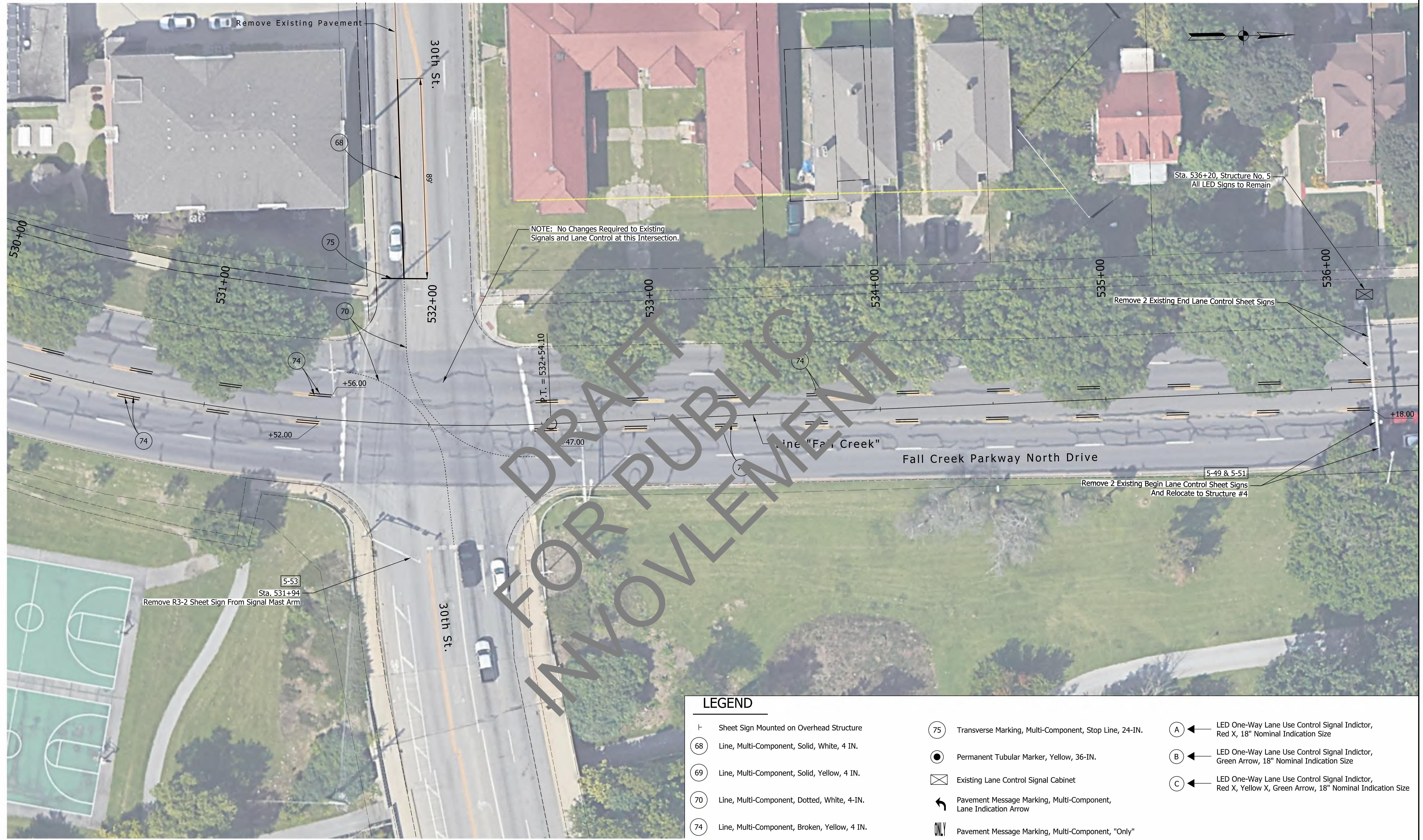
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 file: c:\cadd\ib\p\l\mb_nxwing\lgreatakes\0232762174088-rd-spm05.dgn



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	DESIGN ENGINEER	DATE
			4/6/2020
DESIGNED:	CJS	DRAWN:	JRF
CHECKED:	MMM	CHECKED:	CJS

INDIANA DEPARTMENT OF TRANSPORTATION
FALL CREEK PARKWAY N. DRIVE
CENTRAL AVE. TO 30TH ST.
SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS
ELECTRONIC	SPM-05
CONTRACT	23 of 72
T-42856	PROJECT
	1902693

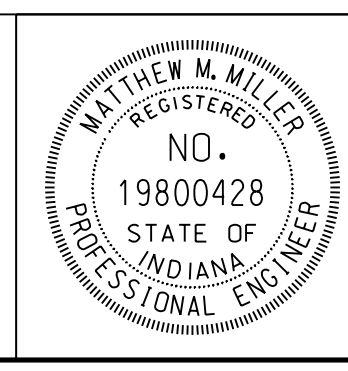


DRAFT FOR PUBLIC INVOLVEMENT

LEGEND

- ⊥ Sheet Sign Mounted on Overhead Structure
- 68 Line, Multi-Component, Solid, White, 4 IN.
- 69 Line, Multi-Component, Solid, Yellow, 4 IN.
- 70 Line, Multi-Component, Dotted, White, 4-IN.
- 74 Line, Multi-Component, Broken, Yellow, 4 IN.
- 75 Transverse Marking, Multi-Component, Stop Line, 24-IN.
- Permanent Tubular Marker, Yellow, 36-IN.
- ⊠ Existing Lane Control Signal Cabinet
- ↩ Pavement Message Marking, Multi-Component, Lane Indication Arrow
- ONLY Pavement Message Marking, Multi-Component, "Only"
- A ← LED One-Way Lane Use Control Signal Indicator, Red X, 18" Nominal Indication Size
- B ← LED One-Way Lane Use Control Signal Indicator, Green Arrow, 18" Nominal Indication Size
- C ← LED One-Way Lane Use Control Signal Indicator, Red X, Yellow X, Green Arrow, 18" Nominal Indication Size

nxwing
 2/12/2020 10:03:55 am
 model: Sheet5
 file: c:\cadd\ib\p\l\mb...nxwing\greatlakes\032762174088-rd-spm\05.dgn



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	CJS	DRAWN:	JRF	
CHECKED:	MMM	CHECKED:	CJS	

INDIANA
DEPARTMENT OF TRANSPORTATION
FALL CREEK PARKWAY N. DRIVE
CENTRAL AVE. TO 30TH ST.
SIGNING AND PAVEMENT MARKING PLAN

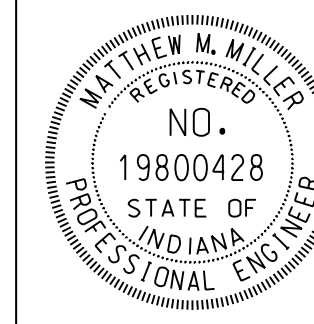
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1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS
ELECTRONIC	24 of 72
CONTRACT	PROJECT
T-42856	1902693

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, MULTI-COMPONENT									LINE, MULTI-COMPONENT, CROSSHATCH		GROOVING FOR PAVEMENT MARKINGS	TRANSVERSE MARKING, MULTI-COMPONENT			PAVEMENT MESSAGE MARKING, MULTI-COMPONENT				PAVEMENT MARKING MMA, GREEN	LINE, REMOVE	PAVEMENT MESSAGE MARKING, REMOVE
	SOLID YELLOW 4 in	SOLID WHITE 4 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 4 in	BROKEN YELLOW 4 in	DOTTED YELLOW 4 in	DOTTED WHITE 4 in	DOTTED WHITE 8 in	SOLID WHITE 12 in	SOLID YELLOW 12 in		YIELD LINE WHITE 24 in	STOP LINE 24 in	CROSSWALK WHITE 24 in	LANE INDICATION ARROW	BIKE SYMBOL	WORD "ONLY"	SHARED LANE			
	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT		LFT	LFT	LFT	EACH	EACH	EACH	EACH			
Fall Creek Corridor																						
Line "Fall Creek"																						
Sta. 521+00 to Sta. 522+00	200											200										100
Sta. 522+00 to Sta. 523+96	392	188										580			2							580
Sta. 525+11 to Sta. 528+62	708	229										937			3		3				937	8.4
Sta. 528+62 to Sta. 531+56						296						296									296	
Sta. 532+00 to Sta. 536+18						372						372									372	
Fall Creek and 30th St									55			55									55	

DRAFT FOR PUBLIC INVOLVEMENT

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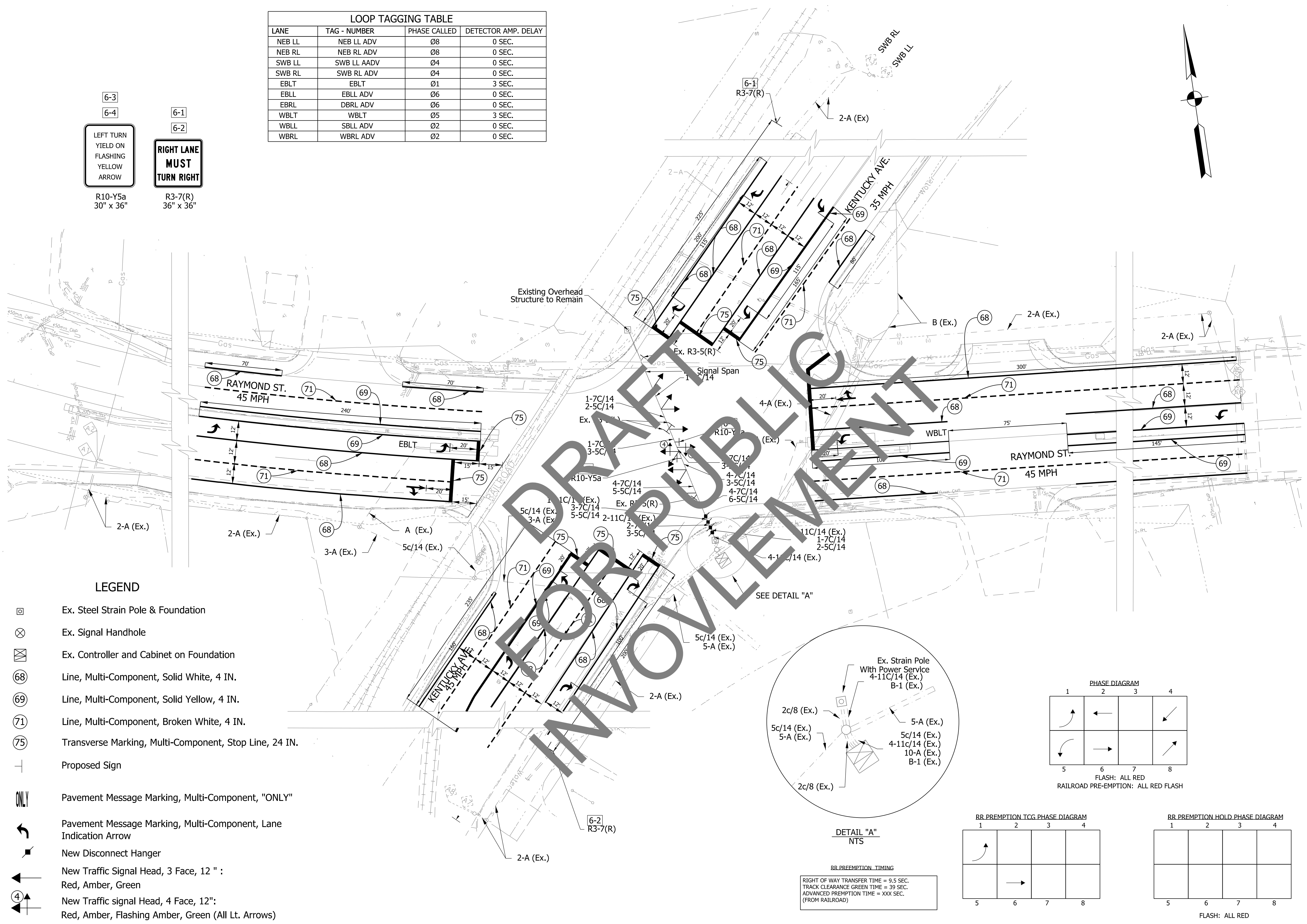
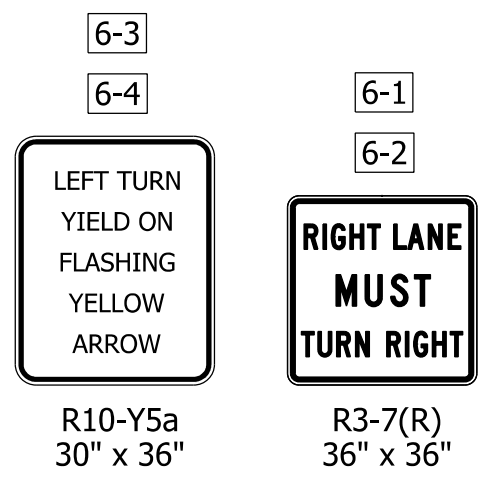


RECOMMENDED FOR APPROVAL *Matthew Miller* 4/6/2020
 DESIGN ENGINEER DATE
 DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

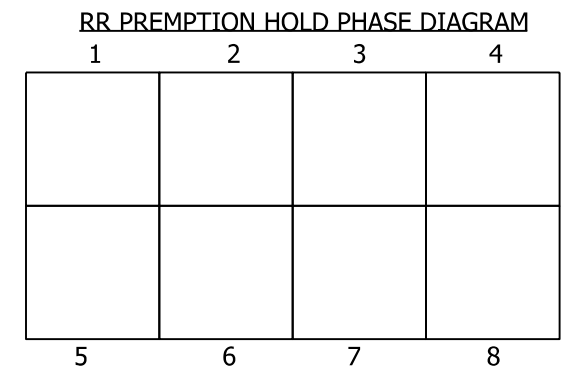
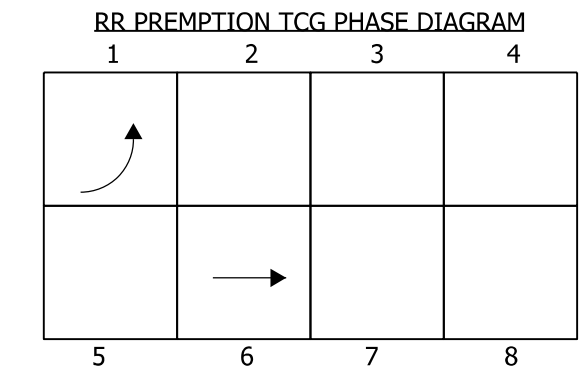
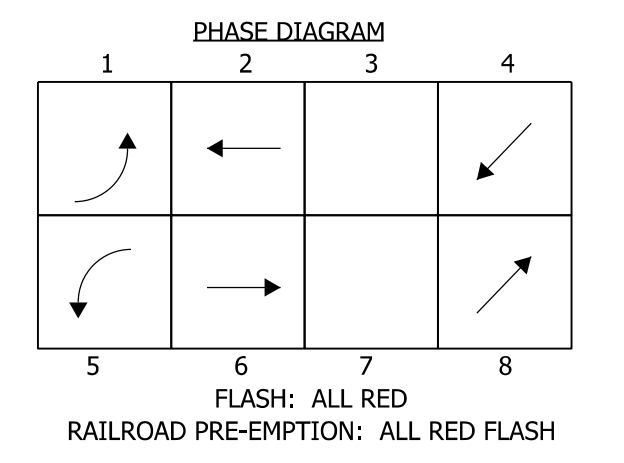
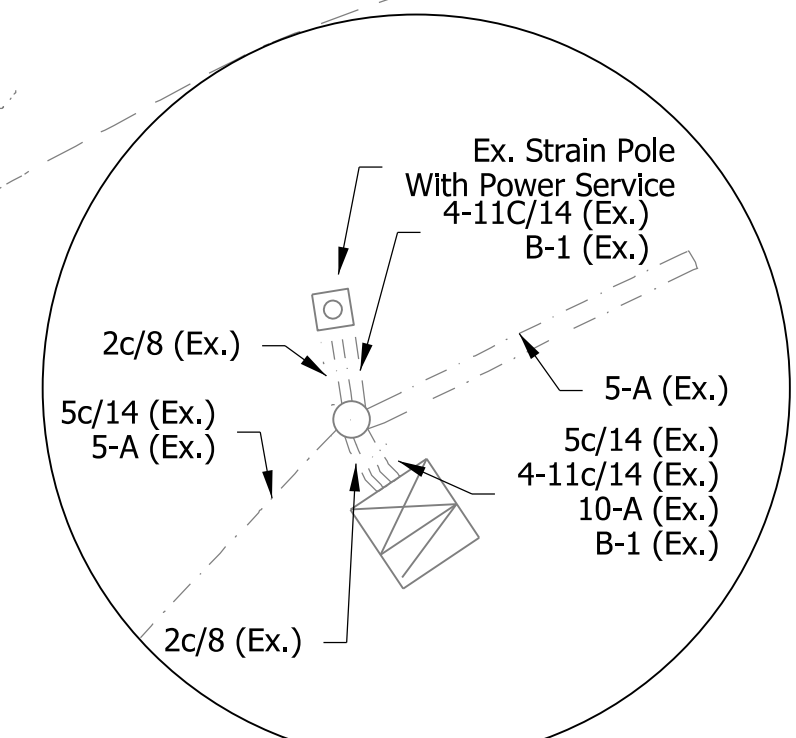
INDIANA DEPARTMENT OF TRANSPORTATION
 SUMMARY TABLE

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VERTICAL SCALE	DESIGNATION
N/A	2001151
SURVEY BOOK	SHEETS TBL-05
ELECTRONIC	26 of 72
CONTRACT	PROJECT
T-42856	1902693

LOOP TAGGING TABLE			
LANE	TAG - NUMBER	PHASE CALLED	DETECTOR AMP. DELAY
NEB LL	NEB LL ADV	Ø8	0 SEC.
NEB RL	NEB RL ADV	Ø8	0 SEC.
SWB LL	SWB LL ADV	Ø4	0 SEC.
SWB RL	SWB RL ADV	Ø4	0 SEC.
EBLT	EBLT	Ø1	3 SEC.
EBLL	EBLL ADV	Ø6	0 SEC.
EBRL	DBRL ADV	Ø6	0 SEC.
WBLT	WBLT	Ø5	3 SEC.
WBLL	SBLL ADV	Ø2	0 SEC.
WBRL	WBRL ADV	Ø2	0 SEC.



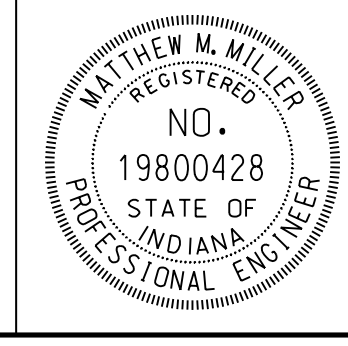
- LEGEND**
- ☐ Ex. Steel Strain Pole & Foundation
 - ⊗ Ex. Signal Handhole
 - ☒ Ex. Controller and Cabinet on Foundation
 - Ⓢ Line, Multi-Component, Solid White, 4 IN.
 - Ⓣ Line, Multi-Component, Solid Yellow, 4 IN.
 - Ⓡ Line, Multi-Component, Broken White, 4 IN.
 - Ⓜ Transverse Marking, Multi-Component, Stop Line, 24 IN.
 - ⊥ Proposed Sign
 - ONLY Pavement Message Marking, Multi-Component, "ONLY"
 - ↪ Pavement Message Marking, Multi-Component, Lane Indication Arrow
 - ⚡ New Disconnect Hanger
 - ⬆ New Traffic Signal Head, 3 Face, 12" : Red, Amber, Green
 - ⬆ New Traffic signal Head, 4 Face, 12": Red, Amber, Flashing Amber, Green (All Lt. Arrows)



RR PREEMPTION TIMING

RIGHT OF WAY TRANSFER TIME = 9.5 SEC.
TRACK CLEARANCE GREEN TIME = 39 SEC.
ADVANCED PREEMPTION TIME = XXX SEC.
(FROM RAILROAD)

NOTES:
1. Remove existing markings in conflict with proposed markings.



RECOMMENDED FOR APPROVAL: *Matthew Miller*, DESIGN ENGINEER, DATE: 4/6/2020

DESIGNED: RAW, DRAWN: RAW, CHECKED: MDC, CHECKED: MDC

INDIANA DEPARTMENT OF TRANSPORTATION
RAYMOND STREET & KENTUCKY AVENUE
SIGNAL DETAIL
INTERSECTION CONTROL #006435





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VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS
ELECTRONIC	27 of 72
CONTRACT	PROJECT
T-42856	1902693

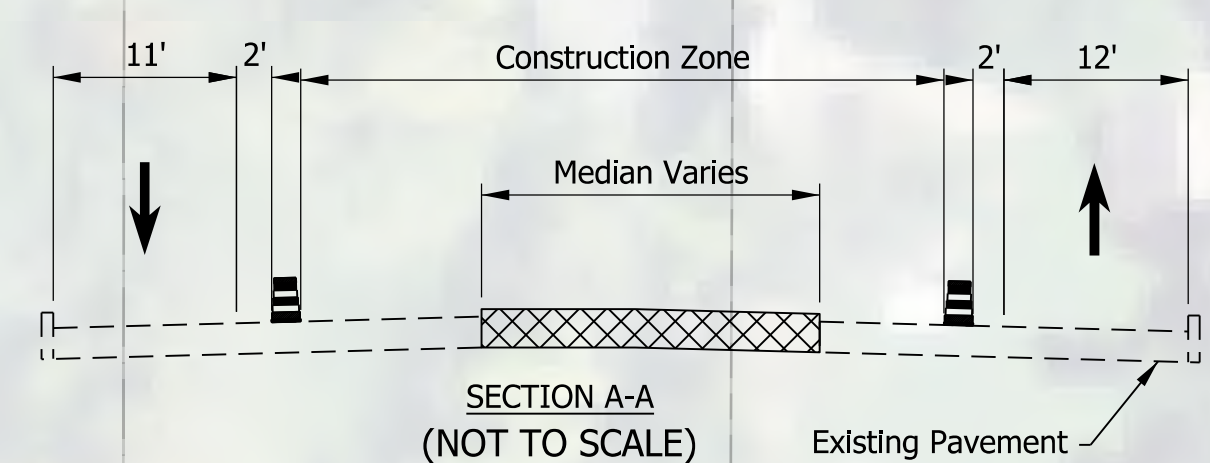
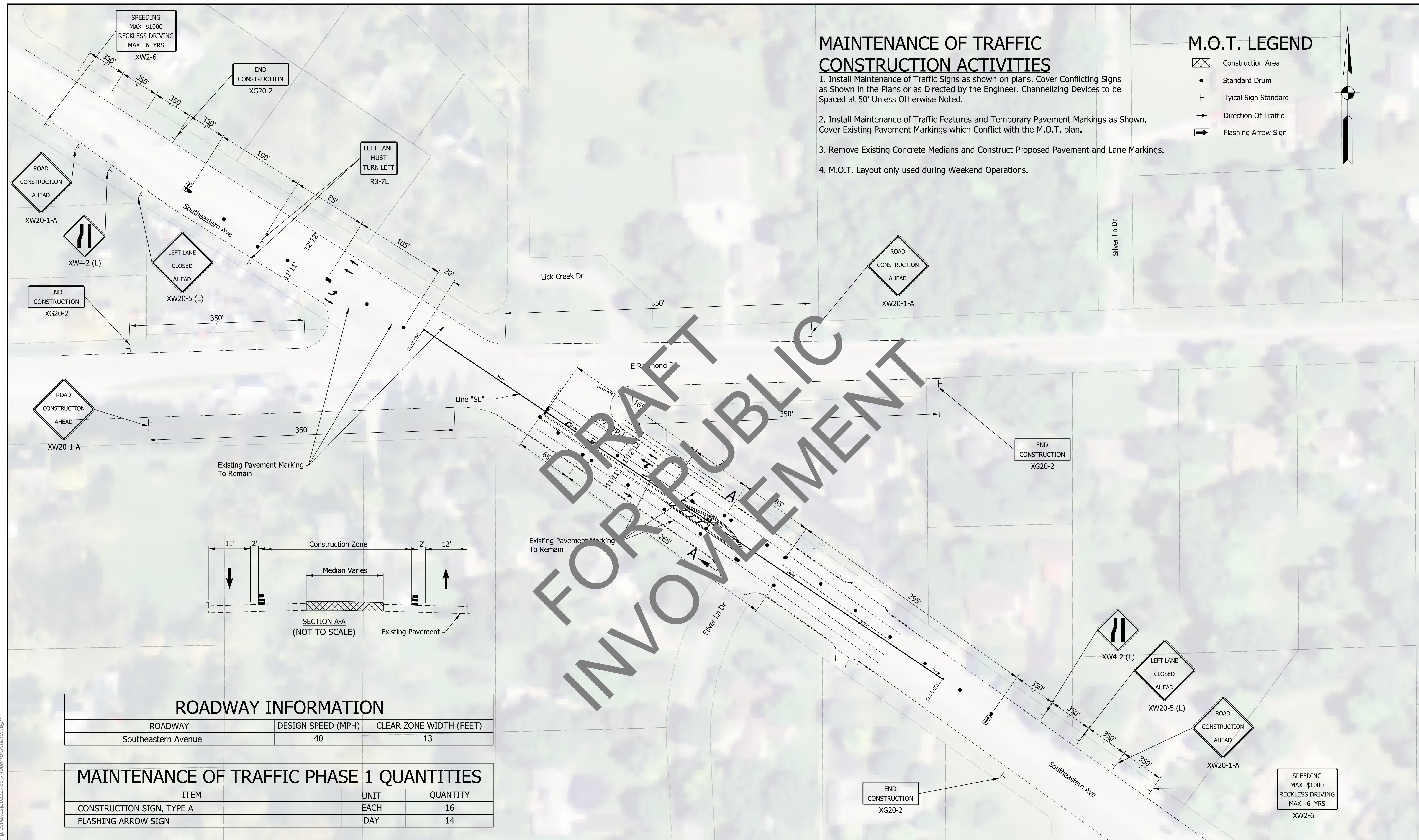
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MAINTENANCE OF TRAFFIC CONSTRUCTION ACTIVITIES

1. Install Maintenance of Traffic Signs as shown on plans. Cover Conflicting Signs as Shown in the Plans or as Directed by the Engineer. Channelizing Devices to be Spaced at 50' Unless Otherwise Noted.
2. Install Maintenance of Traffic Features and Temporary Pavement Markings as Shown. Cover Existing Pavement Markings which Conflict with the M.O.T. plan.
3. Remove Existing Concrete Medians and Construct Proposed Pavement and Lane Markings.
4. M.O.T. Layout only used during Weekend Operations.

M.O.T. LEGEND

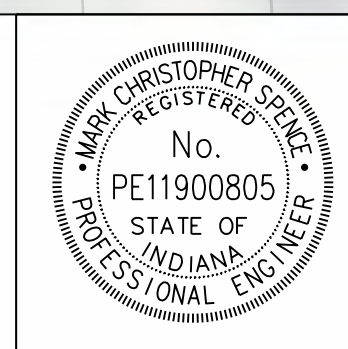
-  Construction Area
-  Standard Drum
-  Typical Sign Standard
-  Direction Of Traffic
-  Flashing Arrow Sign



ROADWAY INFORMATION		
ROADWAY	DESIGN SPEED (MPH)	CLEAR ZONE WIDTH (FEET)
Southeastern Avenue	40	13

MAINTENANCE OF TRAFFIC PHASE 1 QUANTITIES		
ITEM	UNIT	QUANTITY
CONSTRUCTION SIGN, TYPE A	EACH	16
FLASHING ARROW SIGN	DAY	14

FOR DRAFT
INVOLVEMENT



RECOMMENDED FOR APPROVAL: *M. Soket*
DESIGN ENGINEER DATE: 4/6/2020

DESIGNED: JCW DRAWN: JCW
CHECKED: MCS CHECKED: MCS

INDIANA
DEPARTMENT OF TRANSPORTATION

RAYMOND STREET & SOUTHEASTERN AVENUE
MAINTENANCE OF TRAFFIC

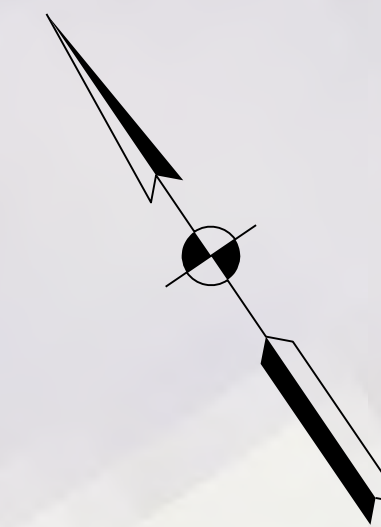
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1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS MOT-06
ELECTRONIC	29 of 72
CONTRACT	PROJECT
T-42856	1902693

msgence
3/20/2020 10:21:22 am
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file: c:\cadd\ib\p\l\mb..._jrfrost\greatakes\0222766174068-rd-s-mot07.dgn

23+00

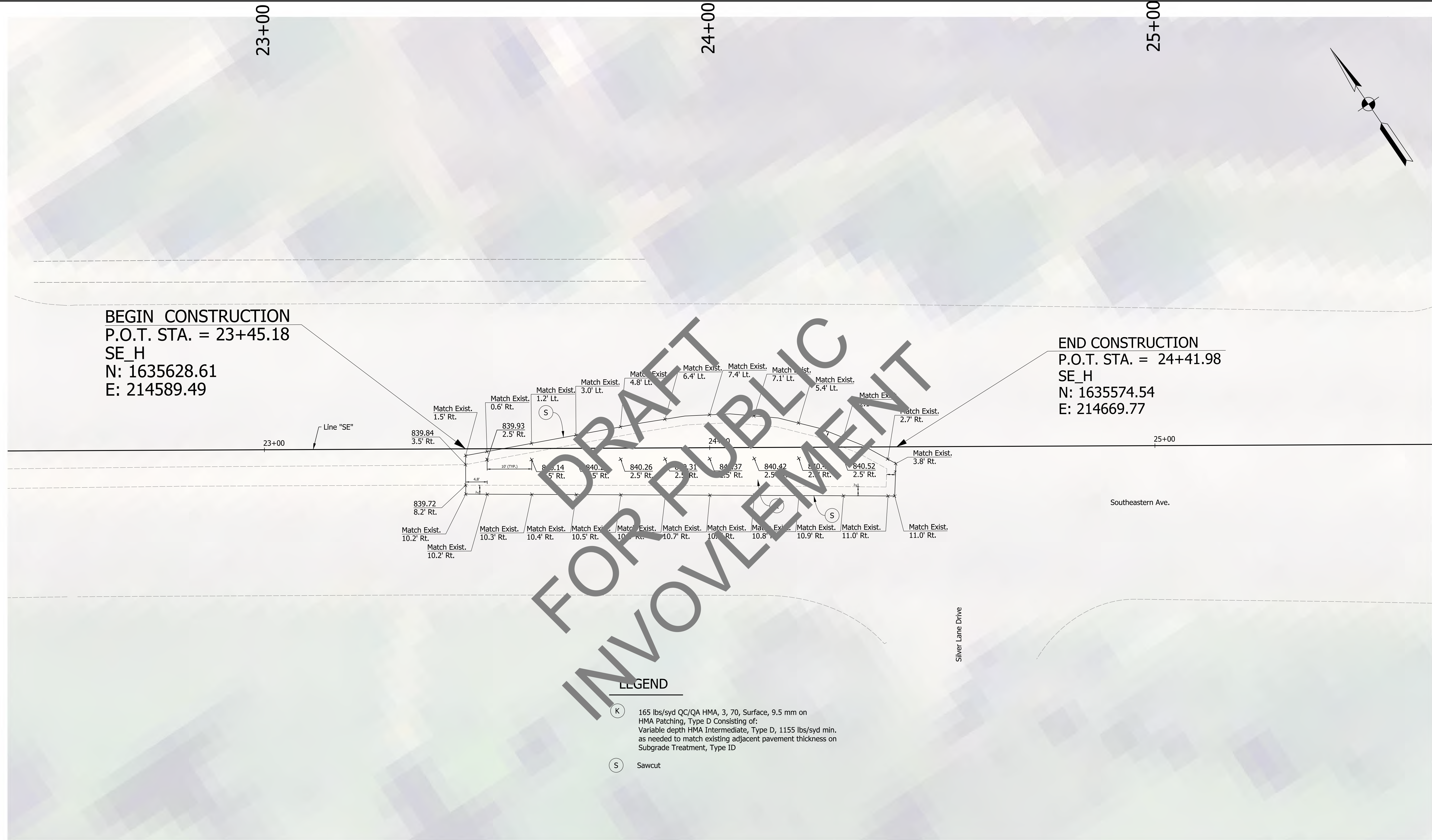
24+00

25+00



BEGIN CONSTRUCTION
P.O.T. STA. = 23+45.18
SE_H
N: 1635628.61
E: 214589.49

END CONSTRUCTION
P.O.T. STA. = 24+41.98
SE_H
N: 1635574.54
E: 214669.77

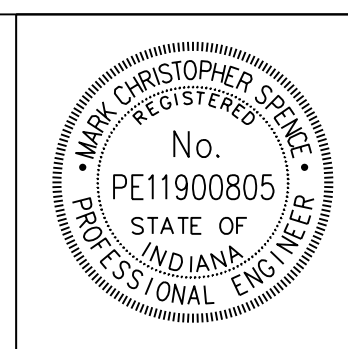


DRAFT FOR PUBLIC INVOLVEMENT

LEGEND

- (K) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5 mm on HMA Patching, Type D Consisting of: Variable depth HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match existing adjacent pavement thickness on Subgrade Treatment, Type ID
- (S) Sawcut

jshurton 3/2/2020 9:49:40 am model:Sheet1 file: c:\addd\ib\pvt\inspence\pvgreat_lakes\022276617\068-rd-s-007.dgn



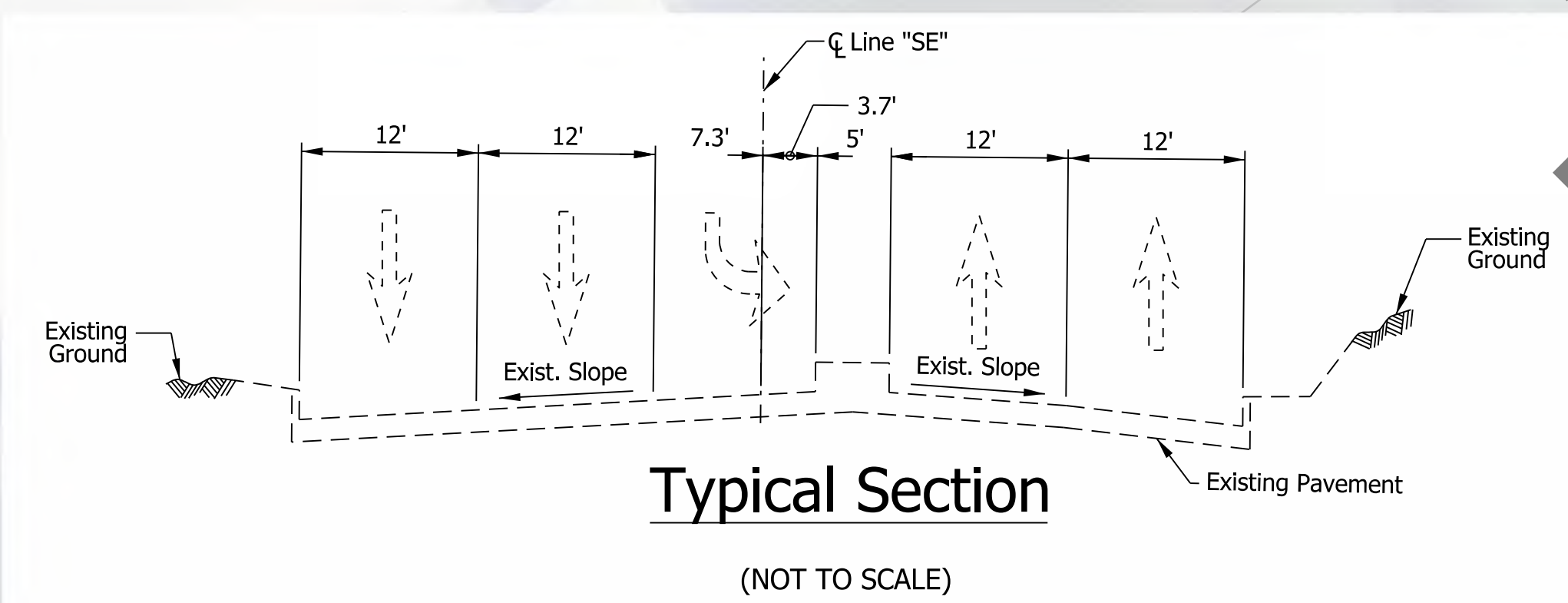
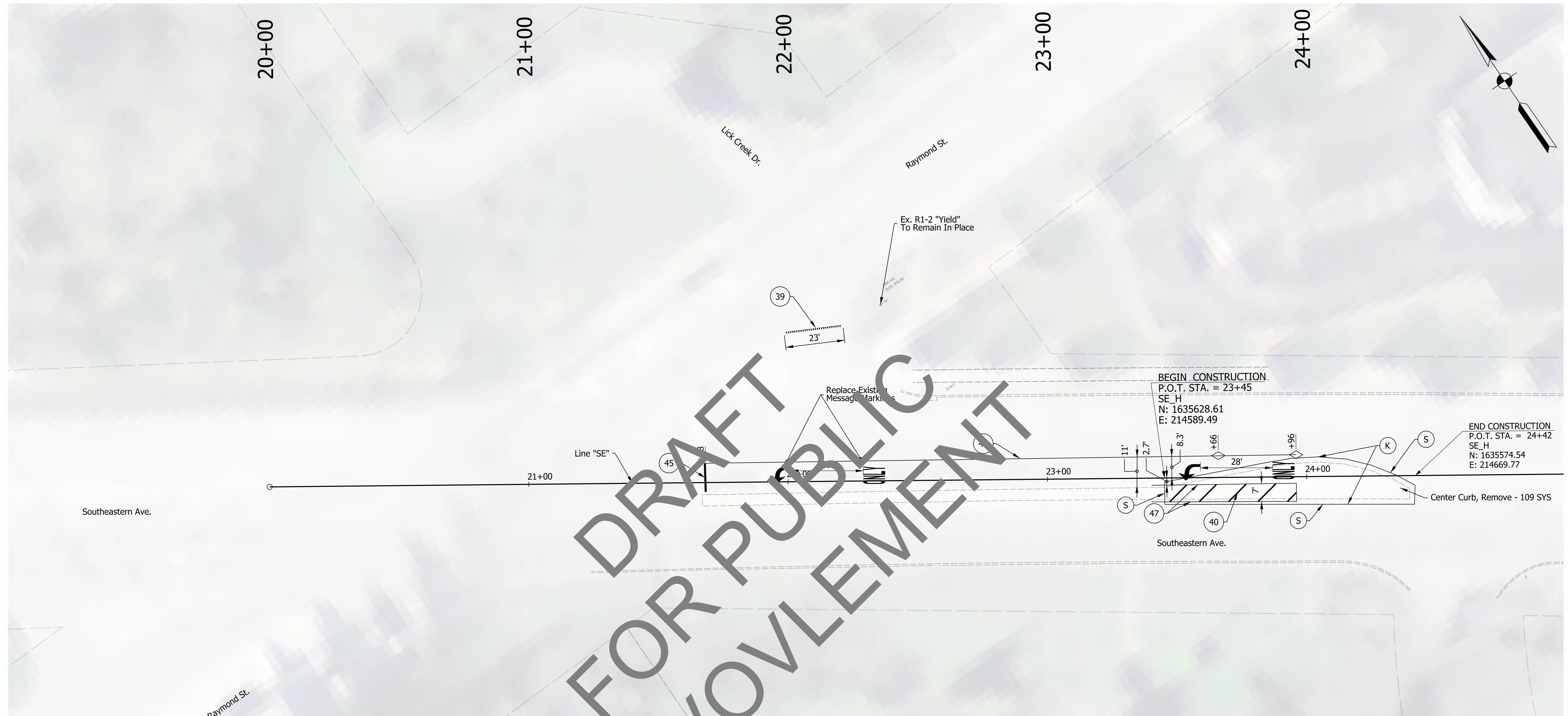
RECOMMENDED FOR APPROVAL *Mark Seiler* 4/6/2020
DESIGN ENGINEER DATE

DESIGNED: JCW DRAWN: JCW
CHECKED: MCS CHECKED: MCS

INDIANA DEPARTMENT OF TRANSPORTATION

RAYMOND STREET & SOUTHEASTERN AVENUE
CONSTRUCTION DETAIL/
SPOT ELEVATION DETAIL

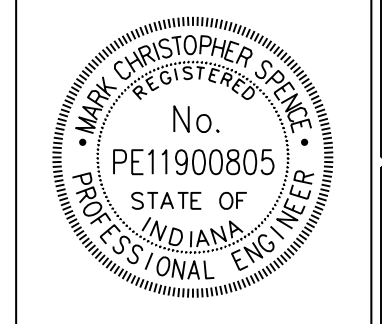
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VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS ID-02
ELECTRONIC	30 of 72
CONTRACT	PROJECT
T-42856	1902693



LEGEND

- 39 Transverse Marking, Multi-Component, Yield Line, White 24 IN.
- 40 Transverse Marking, Multi-Component, Crosshatch Line, Yellow, 12 IN. (8' Spacing)
- 45 Transverse Marking, Multi-Component, Stop Line, 24 IN.
- 46 Line, Multi-Component, Solid, White, 4 IN.
- 47 Line, Multi-Component, Solid, Yellow, 4 IN.
- 48 Line, Multi-Component, Broken, White, 4 IN.
- S Sawcut
- K 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5 mm on HMA Patching, Type D Consisting of: Variable depth HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match existing adjacent pavement thickness on Subgrade Treatment, Type ID
- ◇ Snowplowable Raised Pavement Marking
- ↩ Pavement Message Marking, Multi-Component, Lane Indication Arrow
- ONLY Pavement Message Marking, Multi-Component, "Only"

Notes:
1. Remove existing markings in conflict with proposed markings.

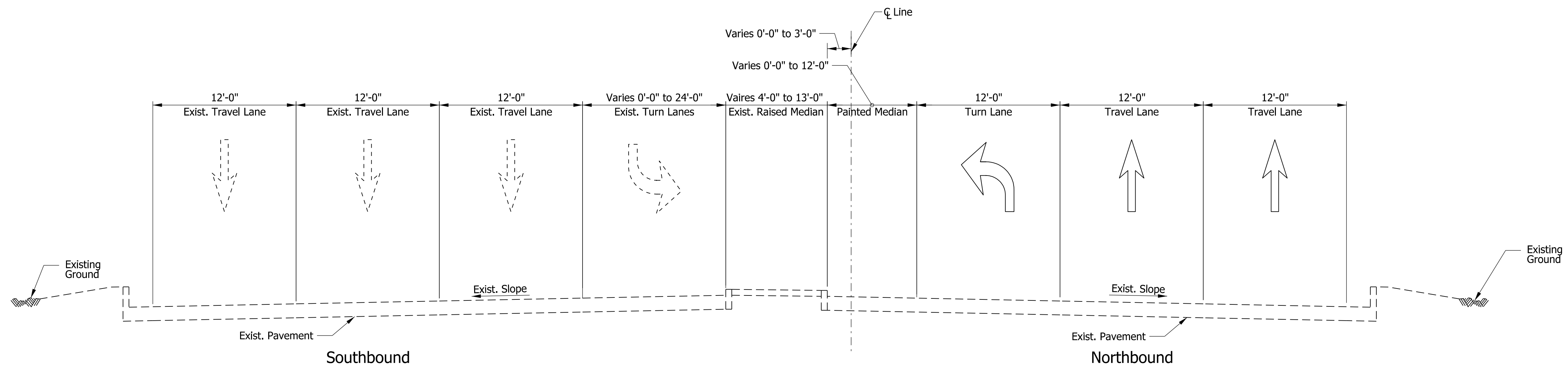


RECOMMENDED FOR APPROVAL: *Christopher S. Peck* DESIGN ENGINEER DATE: 4/6/2020
 DESIGNED: JCW DRAWN: JCW
 CHECKED: MCS CHECKED: MCS

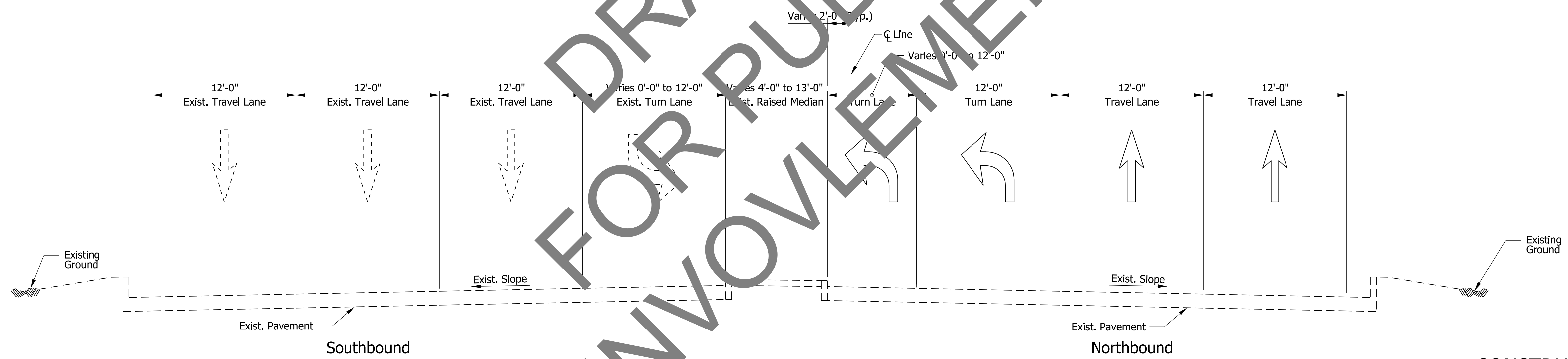
INDIANA DEPARTMENT OF TRANSPORTATION
RAYMOND STREET & SOUTHEASTERN AVENUE PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS
ELECTRONIC	31 of 72
CONTRACT	PROJECT
T-42856	1902693

mspence 3/2/2020 9:49:40 am
 model:Sheet1
 file: c:\cadd\ib\pav\mspace\pav\great_lakes\022276617\068-rd-s-ppm07.dgn



HARDING STREET TYPICAL SECTION
Sta. 100+00.00 Line "A" to Sta. 104+71.41 Line "A"



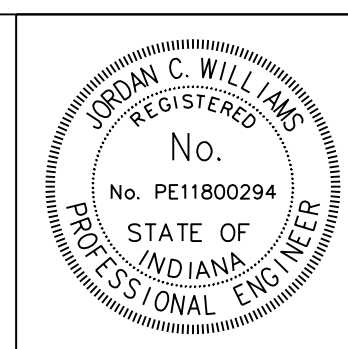
HARDING STREET TYPICAL SECTION
Sta. 104+71.41 Line "A" to Sta. 107+75.61 Line "A"

DRAFT FOR PUBLIC INVOLVEMENT

CONSTRUCTION LEGEND

- (A) PCCP Patching, Full Depth Dense Graded Subbase (6" of Compacted Aggregate #53) on Subgrade Treatment, Type ID
- (K1) 165 lbs/yd² QC/QA HMA, 3, 70, Surface, 9.5mm HMA Patching, Type D Consisting of: Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match the existing adjacent pavement thickness on Subgrade Treatment, Type I
- (17) Concrete Curb (Vertical) (See Std. Drwg. 605-CCSJ-01)
- (F) HMA for Sidewalk

jsburton 1/1/2021 12:00:00 am model:Sheet1 file: c:\cadd\ib\p\jsburton\grate\akes\002\27\68174\068-rd-s-ty08.dgn

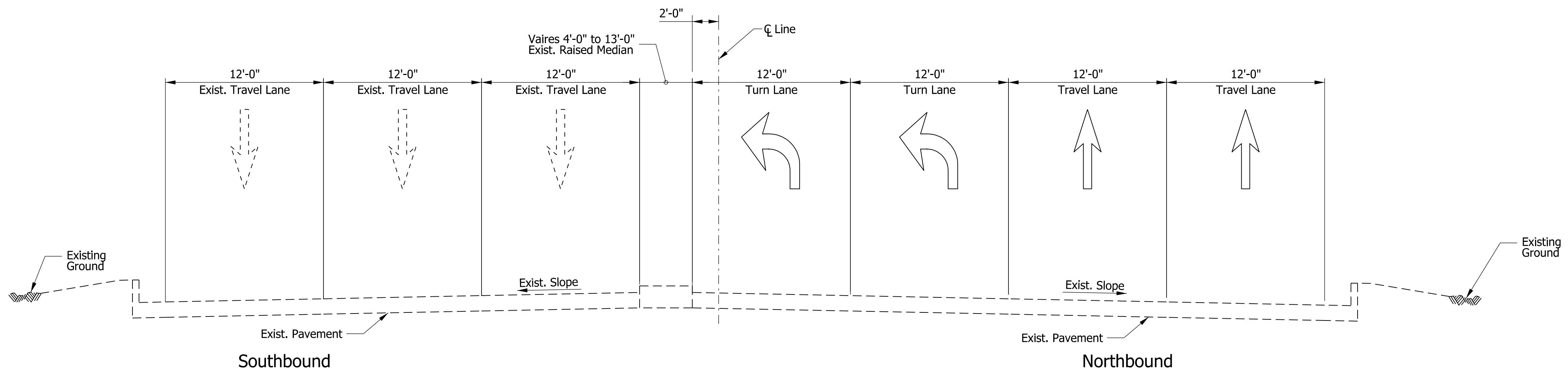


RECOMMENDED FOR APPROVAL	<i>J. Williams</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	NSX	DRAWN:	NSX	
CHECKED:	JCW	CHECKED:	JCW	

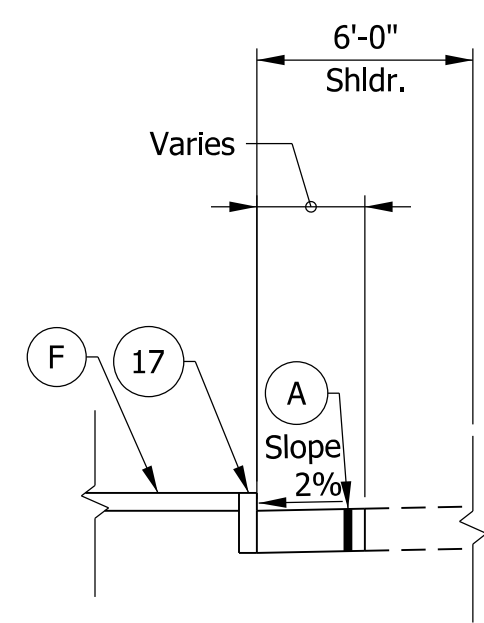
INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
3/16" = 1'-0"	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	TS-02
ELECTRONIC	33	of 72
CONTRACT	PROJECT	
T-42856	1902693	

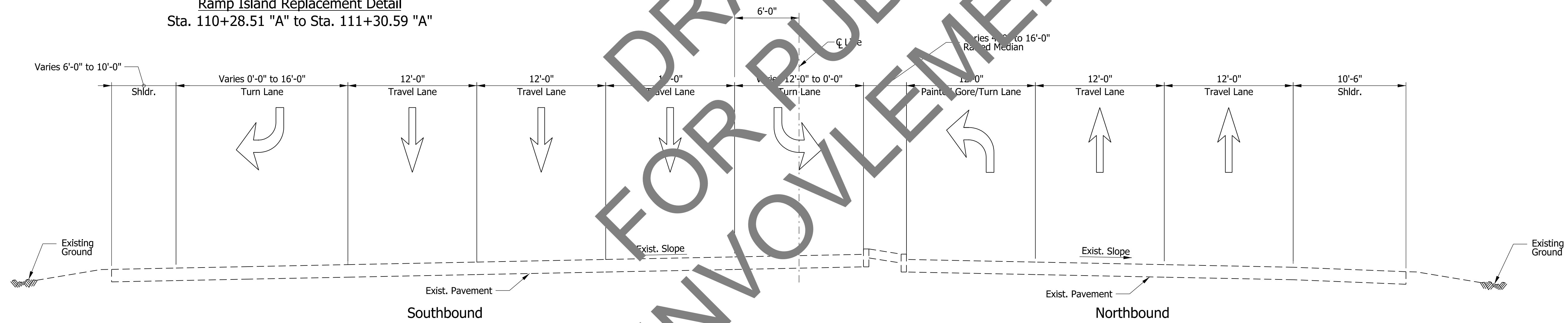


HARDING STREET TYPICAL SECTION
Sta. 107+75.61 Line "A" to Sta. 109+58.57 Line "A"



Ramp Island Replacement Detail
Sta. 110+28.51 "A" to Sta. 111+30.59 "A"

HARDING STREET - IN INTERSECTION
Sta. 109+58.57 Line "A" to Sta. 110+76.79 Line "A"

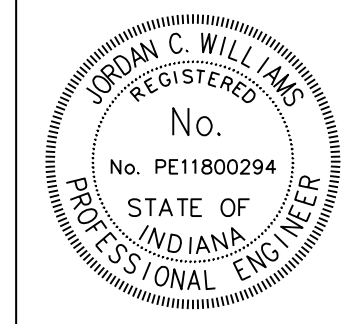


HARDING STREET TYPICAL SECTION
Sta. 110+76.79 Line "A" to Sta. 116+12.88 Line "A"

CONSTRUCTION LEGEND

- (A) PCCP Patching, Full Depth Dense Graded Subbase (6" of Compacted Aggregate #53) on Subgrade Treatment, Type ID
- (K1) 165 lbs/yd² QC/QA HMA, 3, 70, Surface, 9.5mm HMA Patching, Type D Consisting of: Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match the existing adjacent pavement thickness on Subgrade Treatment, Type I
- (17) Concrete Curb (Vertical) (See Std. Drwg. 605-CCSJ-01)
- (F) HMA for Sidewalk

jshurton
 1/1/0001 12:00:00 am
 model:Sheet2
 file: c:\cadd\ib\p\jshurton\grate\akes\002\27\68174\068-rd-s-tyr08.dgn



RECOMMENDED FOR APPROVAL: *J. Williams* DESIGN ENGINEER DATE: 4/6/2020

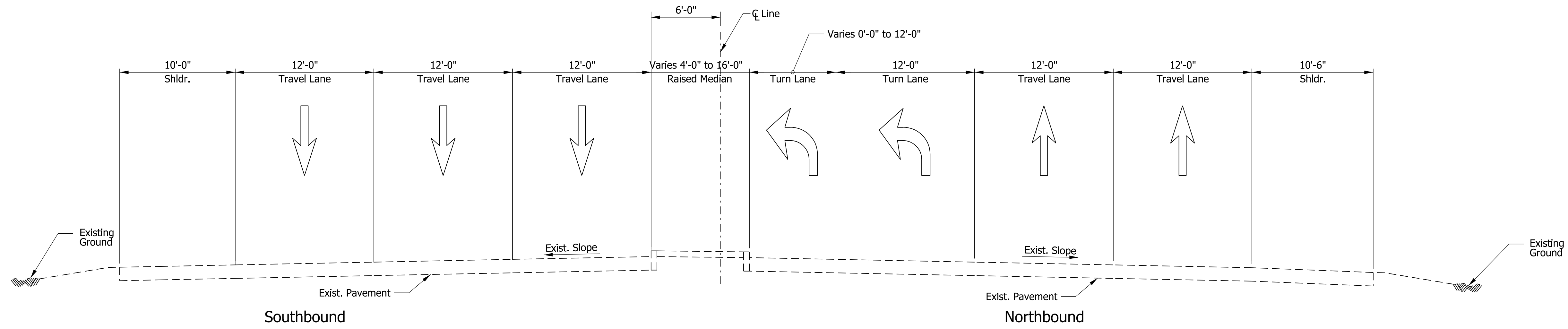
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CHECKED: JCW CHECKED: JCW

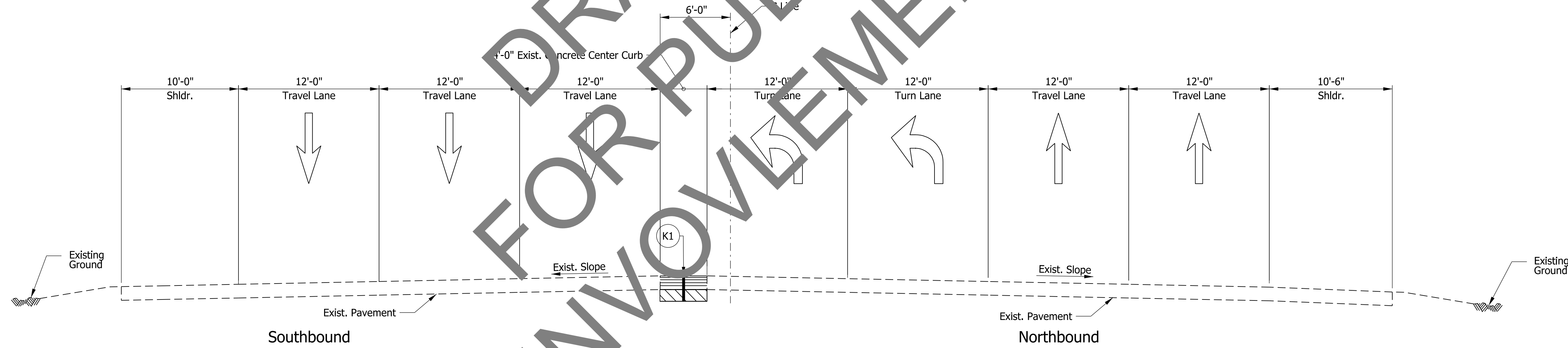
INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS TS-03
ELECTRONIC	34 of 72
CONTRACT	PROJECT
T-42856	1902693



HARDING STREET TYPICAL SECTION
Sta. 116+12.88 Line "A" to Sta. 119+21.71 Line "A"



HARDING STREET TYPICAL SECTION
Sta. 119+21.71 Line "A" to Sta. 119+73.15 Line "A"

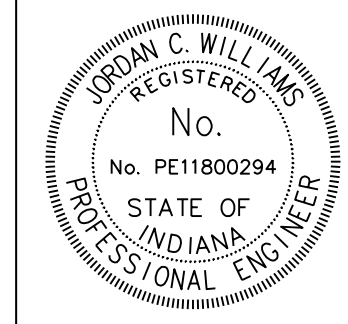
HARDING STREET - IN INTERSECTION
Sta. 119+73.15 Line "A" to Sta. 120+33.43 Line "A"

CONSTRUCTION LEGEND

- (A) PCCP Patching, Full Depth Dense Graded Subbase (6" of Compacted Aggregate #53) on Subgrade Treatment, Type ID
- (K1) 165 lbs/yd² QC/QA HMA, 3, 70, Surface, 9.5mm HMA Patching, Type D Consisting of: Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match the existing adjacent pavement thickness on Subgrade Treatment, Type I
- (17) Concrete Curb (Vertical) (See Std. Drwg. 605-CCSJ-01)
- (F) HMA for Sidewalk

DRAFT FOR PUBLIC INVOLVEMENT

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RECOMMENDED FOR APPROVAL: *J. Williams* DESIGN ENGINEER DATE: 4/6/2020

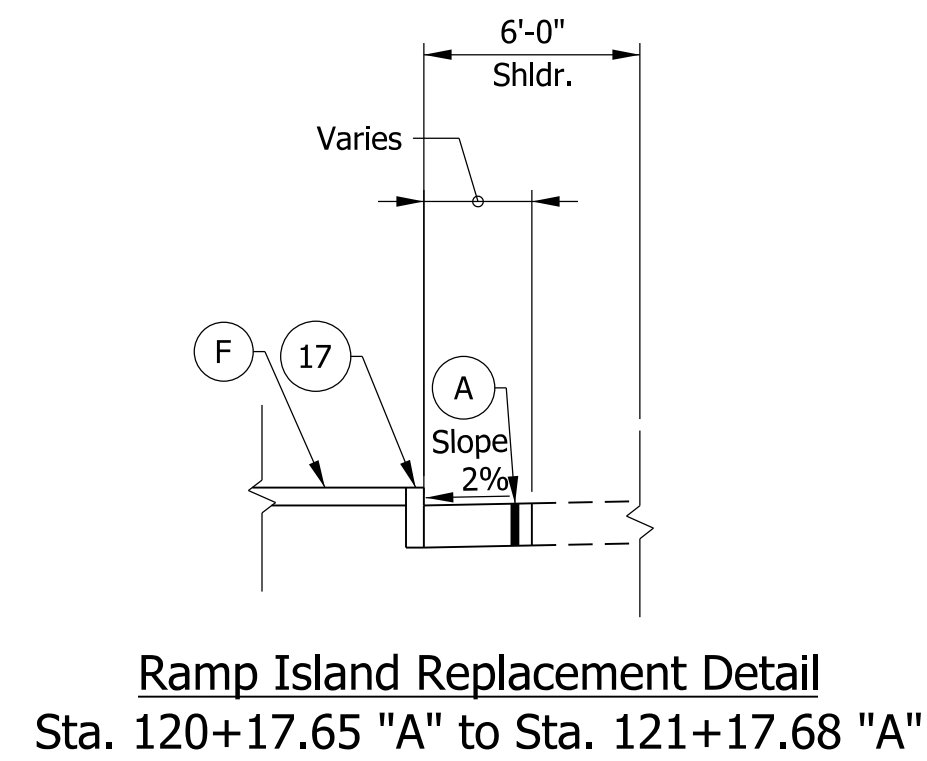
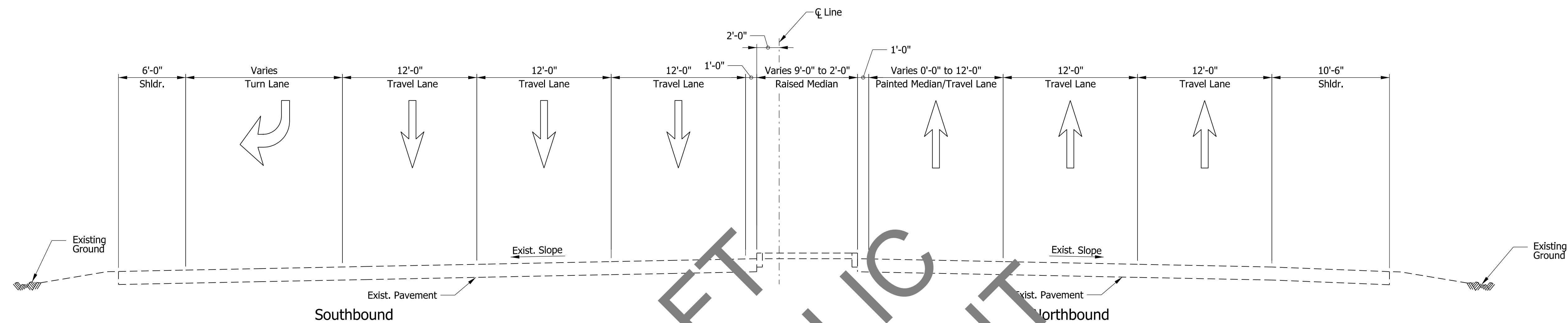
DESIGNED: NSX DRAWN: NSX

CHECKED: JCW CHECKED: JCW

INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS TS-04
ELECTRONIC	35 of 72
CONTRACT	PROJECT
T-42856	1902693



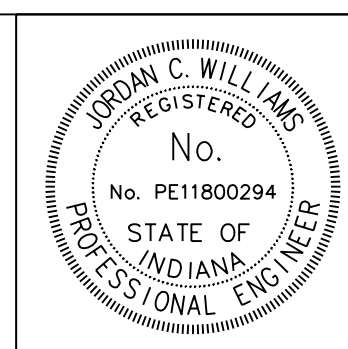
HARDING STREET TYPICAL SECTION
Sta. 120+33.43 Line "A" to Sta. 124+41.07 Line "A"

DRAFT FOR PUBLIC INVOLVEMENT

CONSTRUCTION LEGEND

- (A) PCCP Patching, Full Depth
Dense Graded Subbase (6" of Compacted Aggregate #53) on Subgrade Treatment, Type ID
- (K1) 165 lbs/yd² QC/QA HMA, 3, 70, Surface, 9.5mm
HMA Patching, Type D Consisting of:
Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min.
as needed to match the existing adjacent pavement thickness on Subgrade Treatment, Type I
- (17) Concrete Curb (Vertical)
(See Std. Drwg. 605-CCS1-01)
- (F) HMA for Sidewalk

jsburton 1/1/2021 12:00:00 am model:Sheet4 file: c:\cadd\ib\p\jsburton\grate\akes\002\22768174068-rd-s-typos.dgn

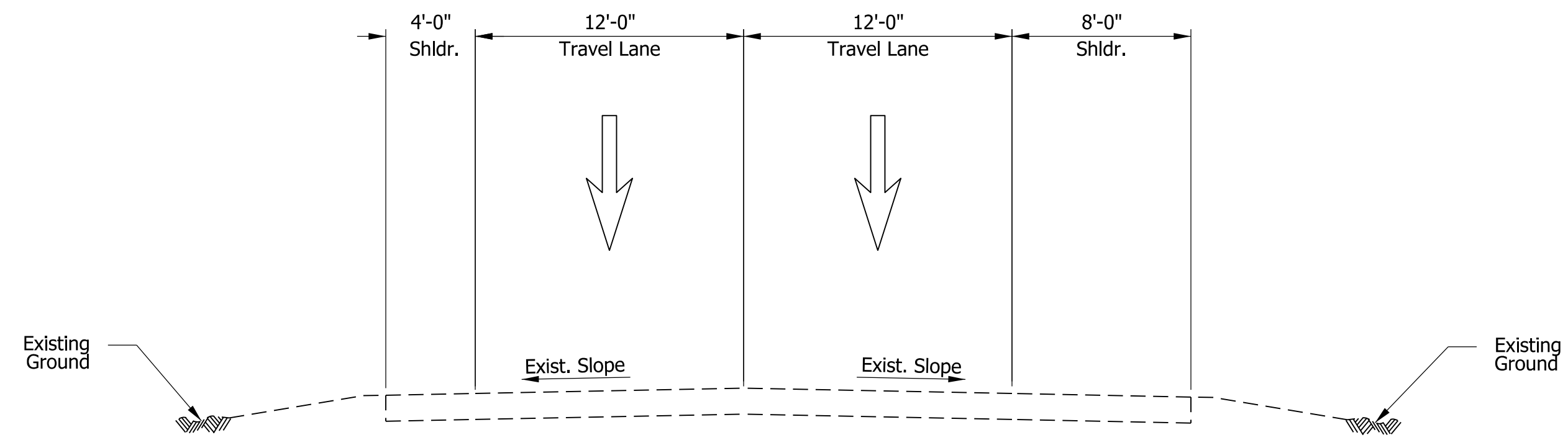


RECOMMENDED FOR APPROVAL	<i>J. Will</i>	DESIGN ENGINEER	DATE
			4/6/2020
DESIGNED:	NSX	DRAWN:	NSX
CHECKED:	JCW	CHECKED:	JCW

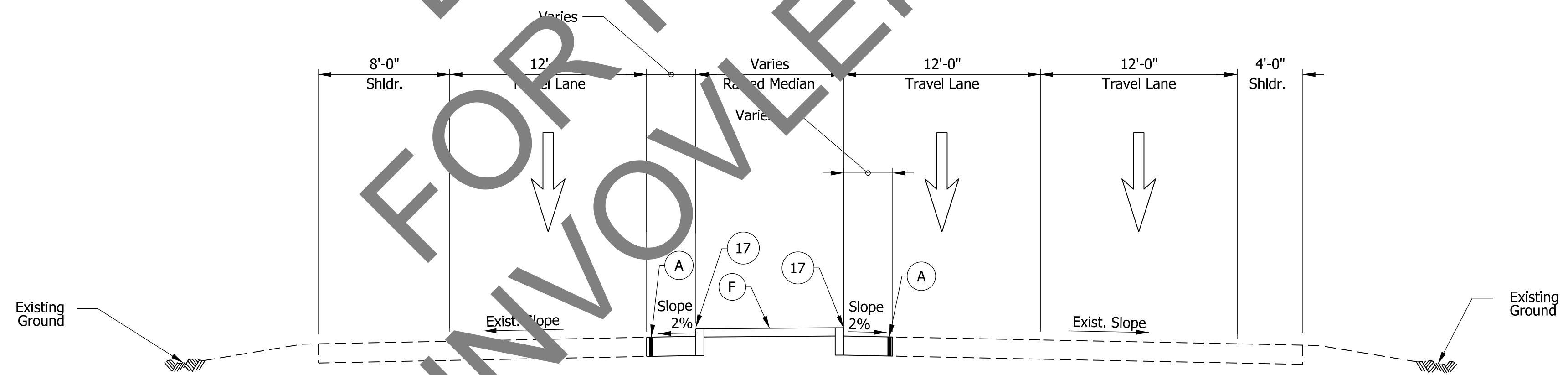
INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
3/16" = 1'-0"	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	TS-05
ELECTRONIC	36	of 72
CONTRACT	PROJECT	
T-42856	1902693	



ENTRANCE RAMP TYPICAL SECTION
 Sta. 10+36.14 Line "Ramp-I70WB" to Sta. 11+00.99 Line "Ramp-I70WB"
 Sta. 10+13.17 Line "Ramp-I70EB" to Sta. 11+79.77 Line "Ramp-I70EB"

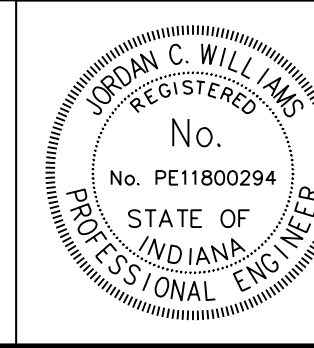


ENTRANCE RAMP TYPICAL SECTION
 Sta. 11+00.99 Line "Ramp-I70WB" to Sta. 12+19.86 Line "Ramp-I70WB"
 Sta. 11+79.77 Line "Ramp-I70WB" to Sta. 12+95.58 Line "Ramp-I70WB"

CONSTRUCTION LEGEND

- A PCCP Patching, Full Depth Dense Graded Subbase (6" of Compacted Aggregate #53) on Subgrade Treatment, Type ID
- K1 165 lbs/yd² QC/QA HMA, 3, 70, Surface, 9.5mm HMA Patching, Type D Consisting of: Variable depth of HMA Intermediate, Type D, 1155 lbs/syd min. as needed to match the existing adjacent pavement thickness on Subgrade Treatment, Type 1
- 17 Concrete Curb (Vertical) (See Std. Drwg. 605-CCSJ-01)
- F HMA for Sidewalk

jsburton 1/1/2001 12:00:00 am
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RECOMMENDED FOR APPROVAL *J. Williams* 4/6/2020
 DESIGN ENGINEER DATE

DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

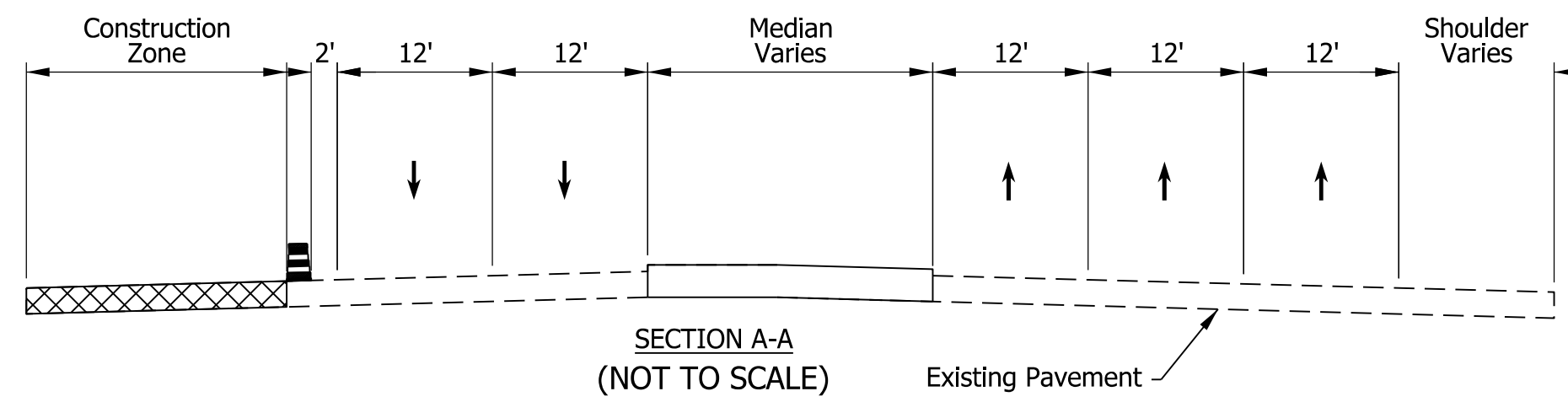
INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS TS-06
ELECTRONIC	37 of 72
CONTRACT	PROJECT
T-42856	1902693

M.O.T. LEGEND

- ▨ Construction Area
- Standard Drum
- ≡ Barricade, III-A,B (12 Lft.)
- ⊥ Typical Sign Standard
- Direction Of Traffic



**MAINTENANCE OF TRAFFIC
PHASE 1 CONSTRUCTION ACTIVITIES**

1. Install Maintenance of Traffic Signs as shown on plans. Cover Conflicting Signs as Shown in the Plans or as Directed by the Engineer. Channelizing Devices to be Spaced at 50' Unless Otherwise Noted.
2. Install Maintenance of Traffic Features and Temporary Pavement Markings as Shown. Cover Existing Pavement Markings which Conflict with the Maintenance of Traffic plan.
3. Close "Ramp-170EB" and Begin Construction Activities.
4. Remove Existing Concrete Traffic Island and Construct Proposed Concrete Traffic Island.
5. Construction to be Completed Between May 26th and July 3rd, 2020 Per Contract R-40511

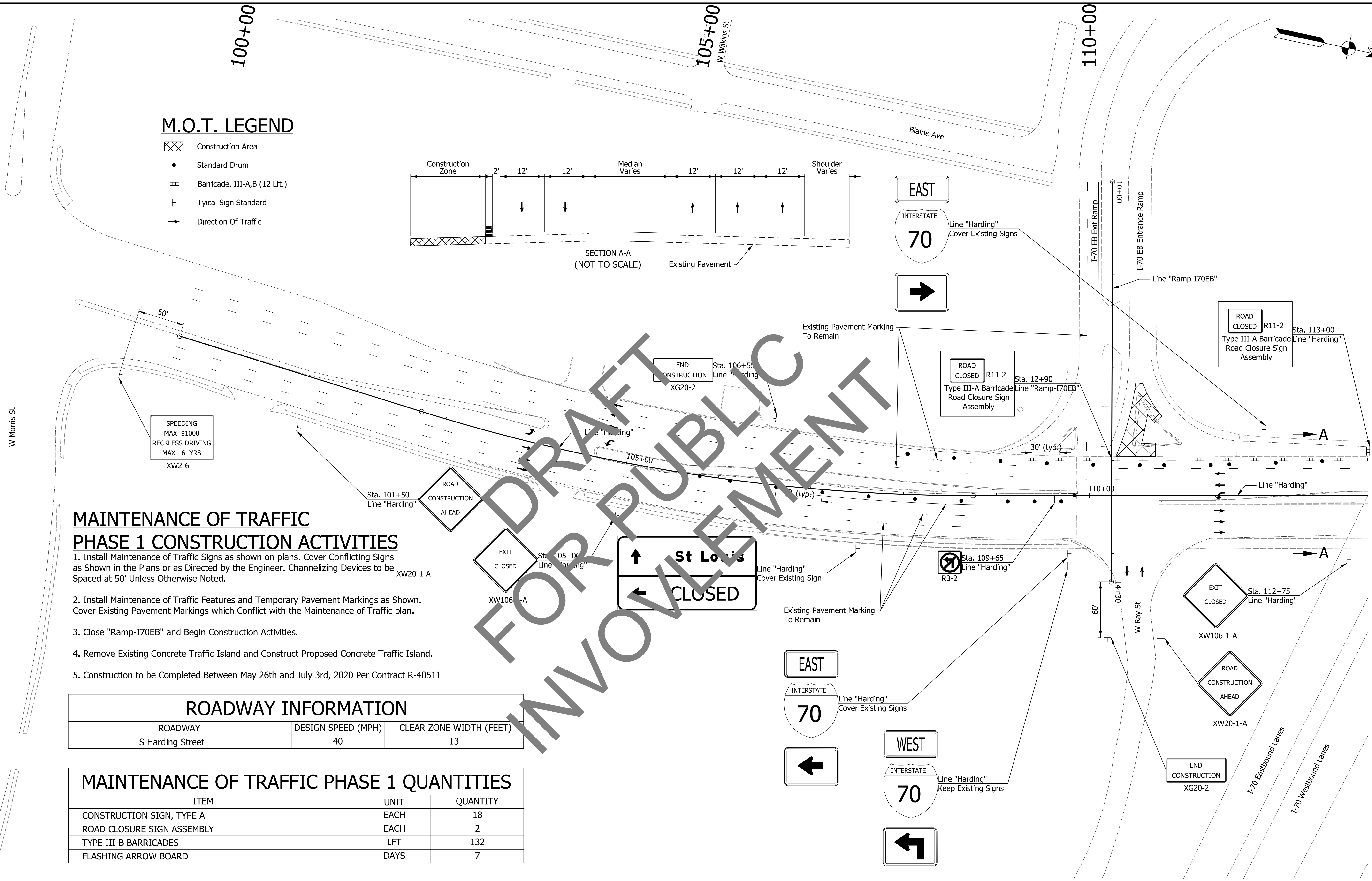
ROADWAY INFORMATION

ROADWAY	DESIGN SPEED (MPH)	CLEAR ZONE WIDTH (FEET)
S Harding Street	40	13

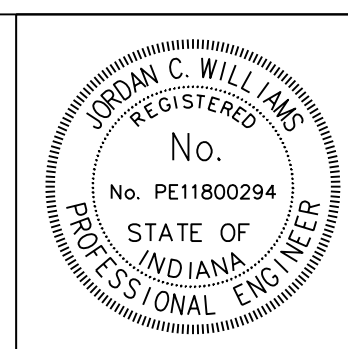
MAINTENANCE OF TRAFFIC PHASE 1 QUANTITIES

ITEM	UNIT	QUANTITY
CONSTRUCTION SIGN, TYPE A	EACH	18
ROAD CLOSURE SIGN ASSEMBLY	EACH	2
TYPE III-B BARRICADES	LFT	132
FLASHING ARROW BOARD	DAYS	7

FOR DRAFT
INVOLVEMENT
PUBLIC



nsxong
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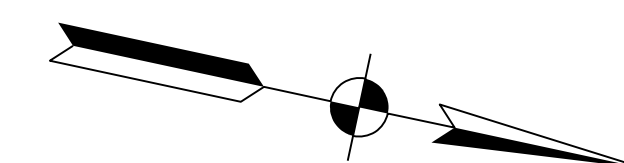


RECOMMENDED FOR APPROVAL	<i>J. Will</i>	DESIGN ENGINEER	DATE
			4/6/2020
DESIGNED:	NSX	DRAWN:	NSX
CHECKED:	JCW	CHECKED:	JCW

**INDIANA
DEPARTMENT OF TRANSPORTATION**

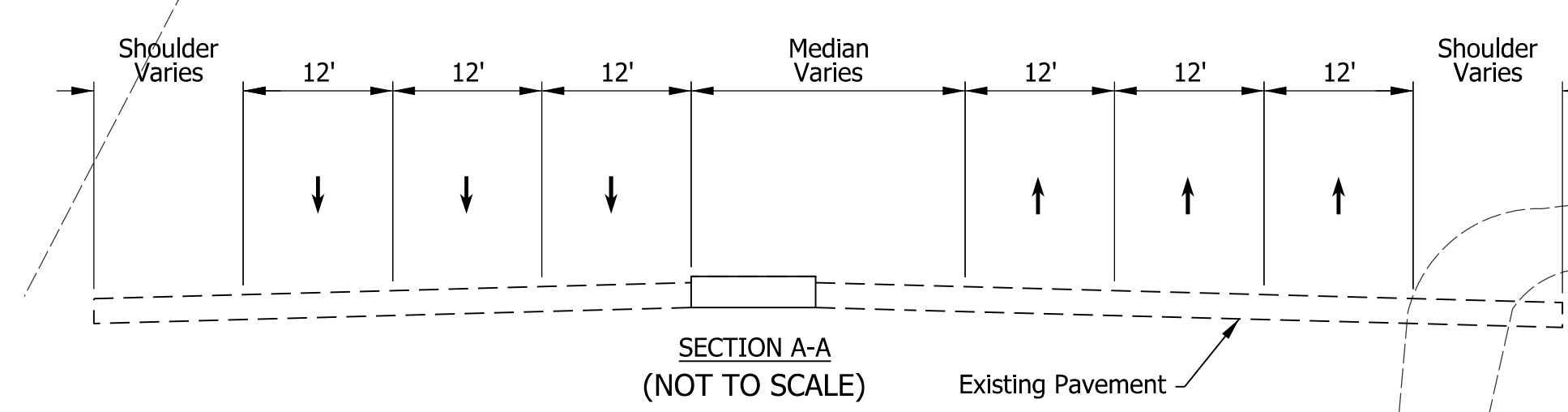
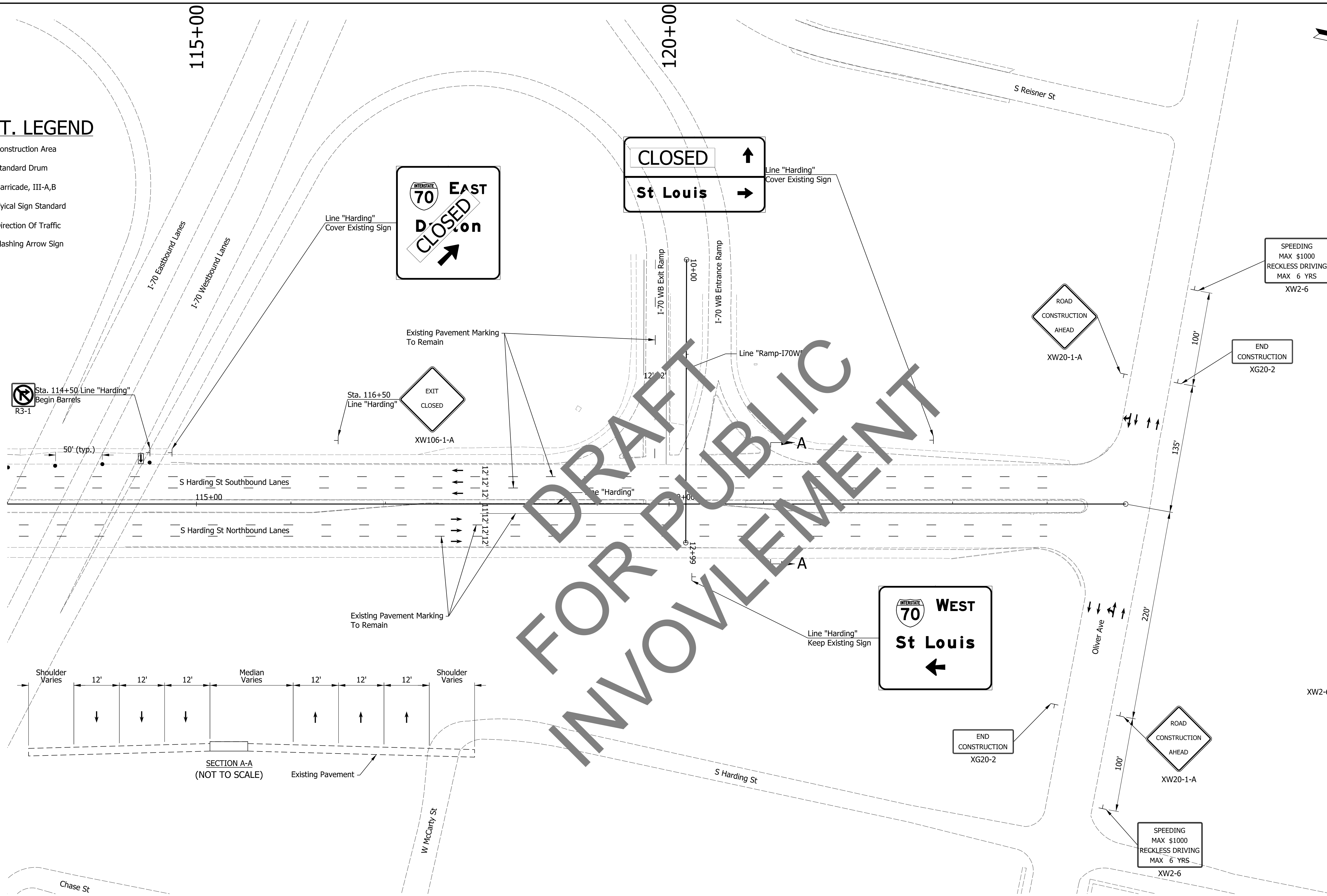
**I-70 AT HARDING STREET
MAINTENANCE OF TRAFFIC
PHASE 1**

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS
ELECTRONIC	38 of 72
CONTRACT	PROJECT
T-42856	1902693



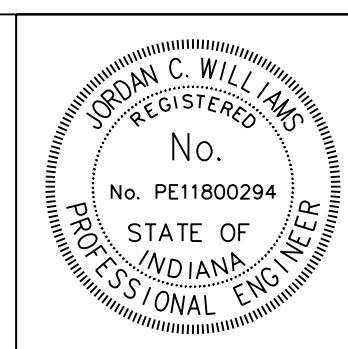
M.O.T. LEGEND

- Construction Area
- Standard Drum
- Barricade, III-A,B
- Typical Sign Standard
- Direction Of Traffic
- Flashing Arrow Sign



FOR DRAFT INVOLVEMENT

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 model: Sheet2
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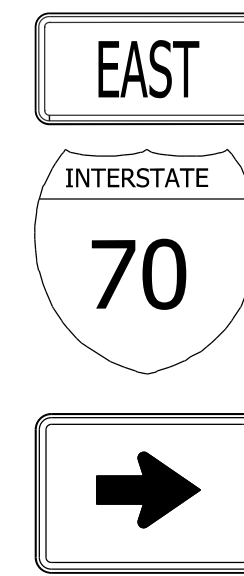
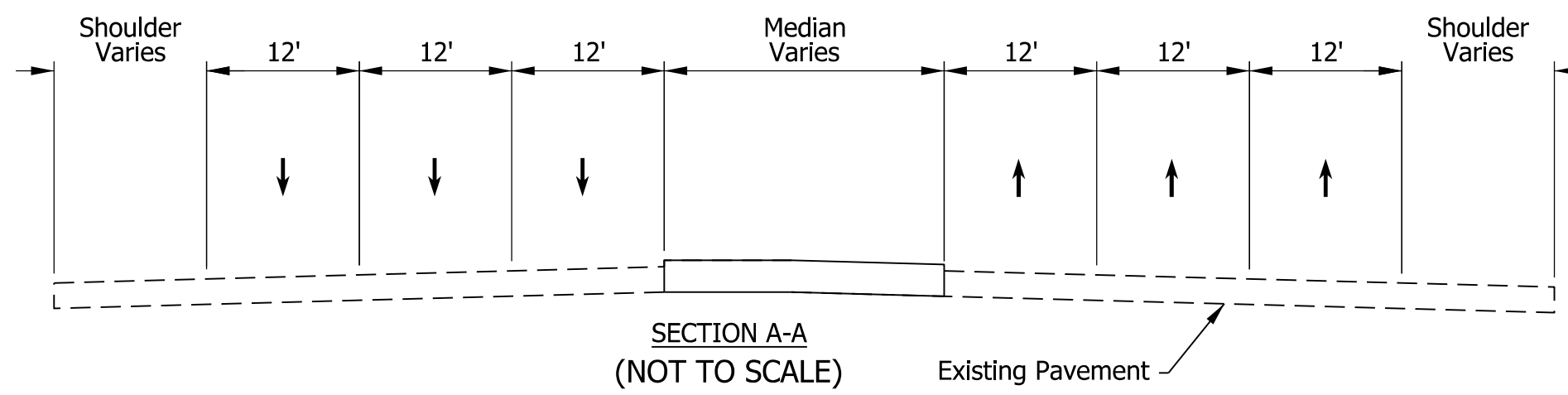
RECOMMENDED FOR APPROVAL: *J. Will*
 DESIGN ENGINEER: J. Will DATE: 4/6/2020
 DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

INDIANA DEPARTMENT OF TRANSPORTATION
I-70 AT HARDING STREET MAINTENANCE OF TRAFFIC PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS MOT-08
ELECTRONIC	39 of 72
CONTRACT	PROJECT
T-42856	1902693

M.O.T. LEGEND

- ☒ Construction Area
- Standard Drum
- ≡ Barricade, III-A,B (12 Lft.)
- ⊥ Typical Sign Standard
- Direction Of Traffic



MAINTENANCE OF TRAFFIC

PHASE 1 CONSTRUCTION ACTIVITIES

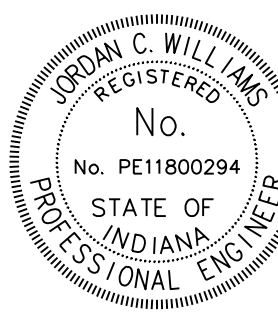
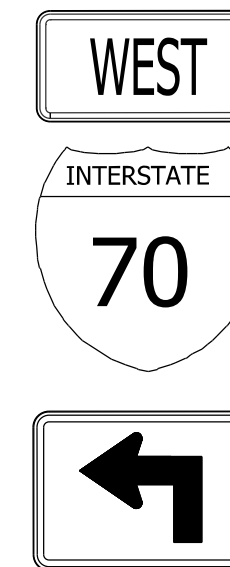
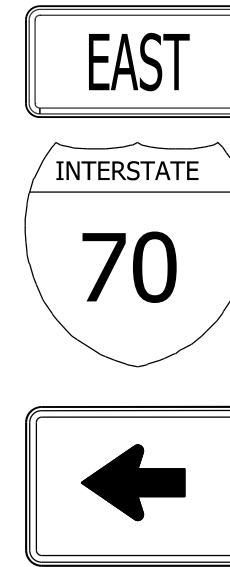
1. Install Maintenance of Traffic Signs as shown on plans. Cover Conflicting Signs as Shown in the Plans or as Directed by the Engineer. Channelizing Devices to be Spaced at 50' Unless Otherwise Noted.
2. Install Maintenance of Traffic Features and Temporary Pavement Markings as Shown. Cover Existing Pavement Markings which Conflict with the Maintenance of Traffic plan.
3. Close "Ramp-170EB" and Begin Construction Activities.
4. Remove Existing Concrete Traffic Island and Construct Proposed Concrete Traffic Island.
5. Construction to be Completed Between May 26th and July 3rd, 2020 Per Contract R-40511

ROADWAY INFORMATION

ROADWAY	DESIGN SPEED (MPH)	CLEAR ZONE WIDTH (FEET)
S Harding Street	40	13

MAINTENANCE OF TRAFFIC PHASE 2 QUANTITIES

ITEM	UNIT	QUANTITY
CONSTRUCTION SIGN, TYPE A	EACH	13
ROAD CLOSURE SIGN ASSEMBLY	EACH	1
TYPE III-B BARRICADES	LFT	144
FLASHING ARROW BOARD	DAYS	14



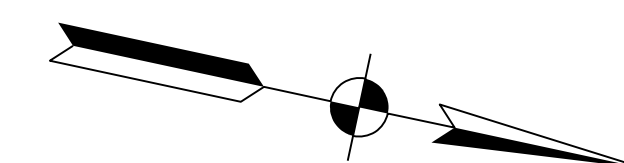
RECOMMENDED FOR APPROVAL: *J. Will* DESIGN ENGINEER DATE: 4/6/2020
 DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

INDIANA DEPARTMENT OF TRANSPORTATION
 I-70 AT HARDING STREET MAINTENANCE OF TRAFFIC PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS MOT-09
ELECTRONIC	40 of 72
CONTRACT	PROJECT
T-42856	1902693

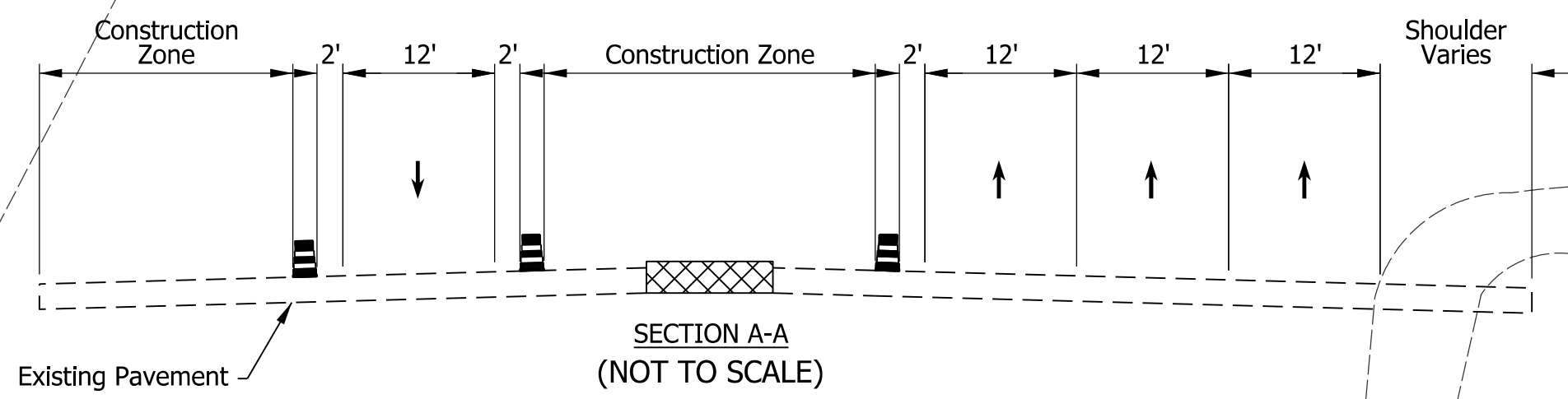
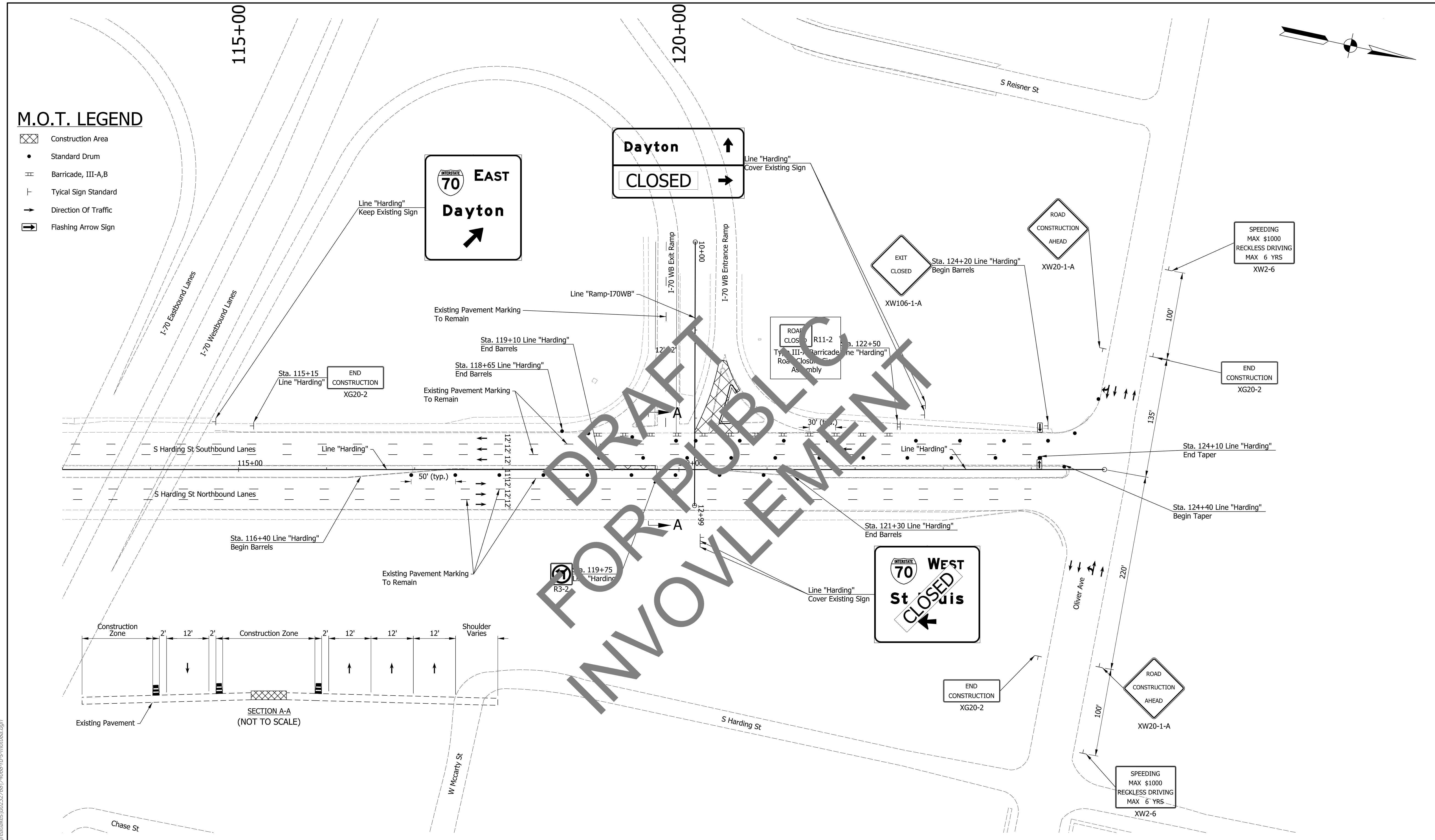
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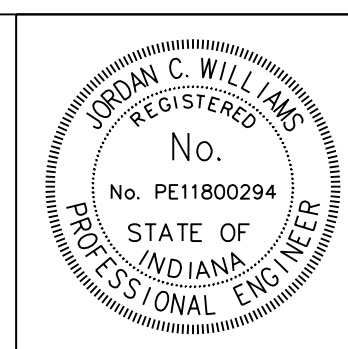


M.O.T. LEGEND

- Construction Area
- Standard Drum
- Barricade, III-A,B
- Typical Sign Standard
- Direction Of Traffic
- Flashing Arrow Sign



nxsong
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RECOMMENDED FOR APPROVAL: *J. Will*
 DESIGN ENGINEER: J. Will
 DATE: 4/6/2020
 DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

INDIANA
 DEPARTMENT OF TRANSPORTATION
**I-70 AT HARDING STREET
 MAINTENANCE OF TRAFFIC
 PHASE 2**

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS MOT-10
ELECTRONIC	41 of 72
CONTRACT	PROJECT
T-42856	1902693

108+00

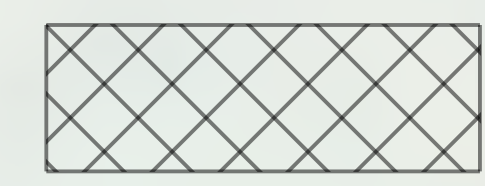
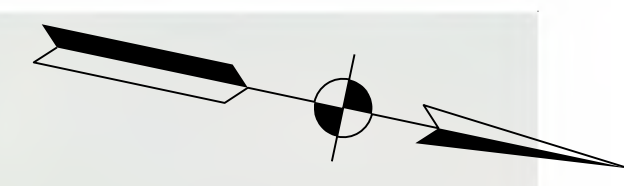
109+00

110+00

111+00

112+00

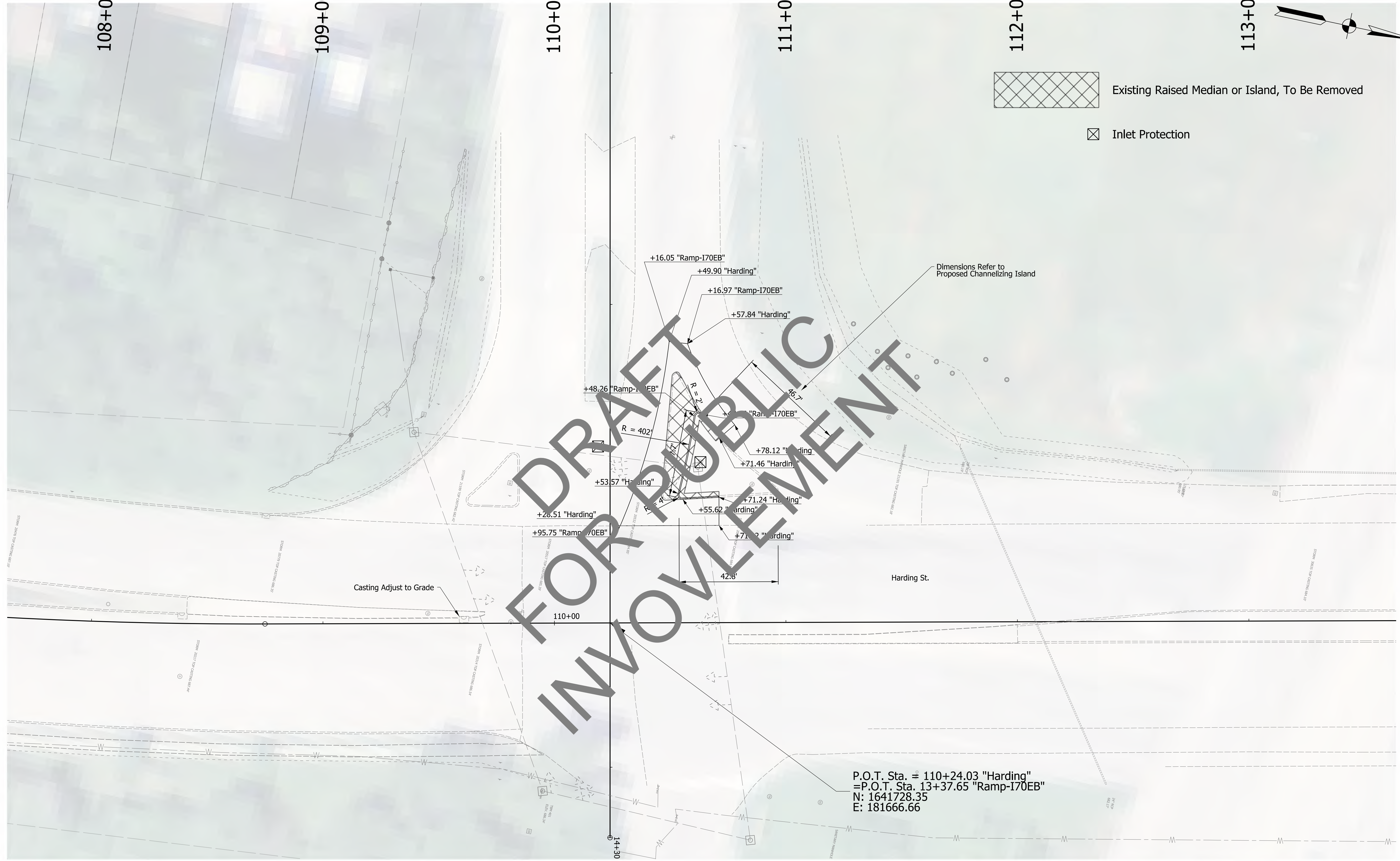
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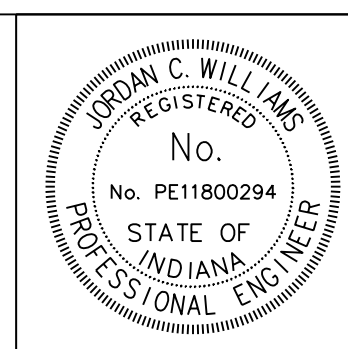
Existing Raised Median or Island, To Be Removed



Inlet Protection



Jwilliams
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file: c:\cadd\ib\jwilliams\greatakes\0232768\74068-rd-s-cd08.dgn

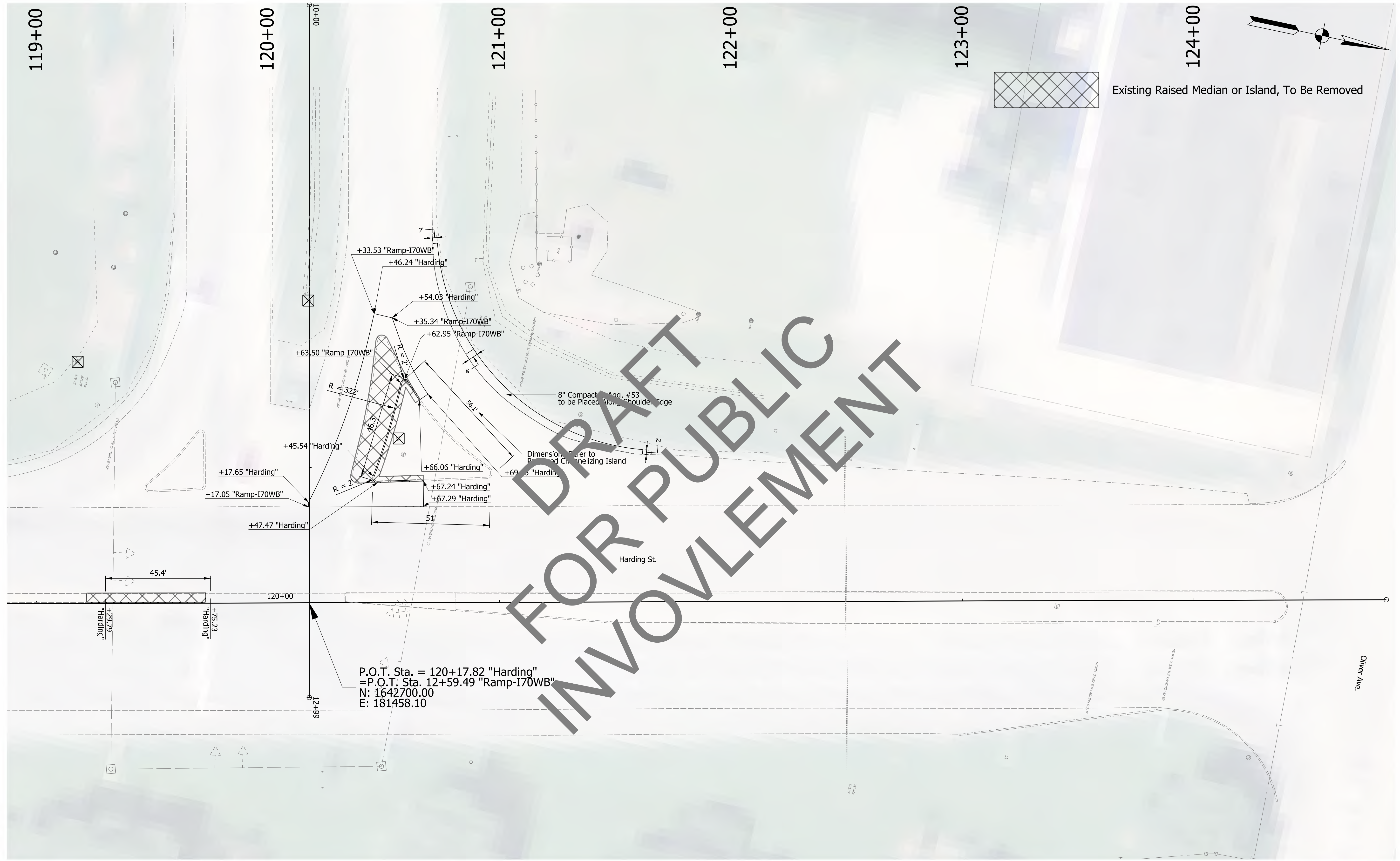


RECOMMENDED FOR APPROVAL	<i>J. Williams</i>	DESIGN ENGINEER	DATE
			4/6/2020
DESIGNED:	NSX	DRAWN:	NSX
CHECKED:	JCW	CHECKED:	JCW

INDIANA
DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET
CONSTRUCTION DETAILS

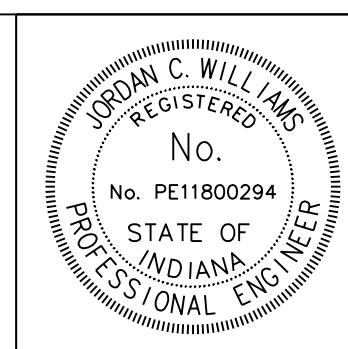
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1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	CD-03
ELECTRONIC	42	of 72
CONTRACT	PROJECT	
T-42856	1902693	



P.O.T. Sta. = 120+17.82 "Harding"
 =P.O.T. Sta. 12+59.49 "Ramp-170WB"
 N: 1642700.00
 E: 181458.10

DRAFT FOR PUBLIC INVOLVEMENT

jsburton
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RECOMMENDED FOR APPROVAL	<i>J. Williams</i>	DESIGN ENGINEER	DATE
DESIGNED:	NSX	DRAWN:	NSX
CHECKED:	JCW	CHECKED:	JCW

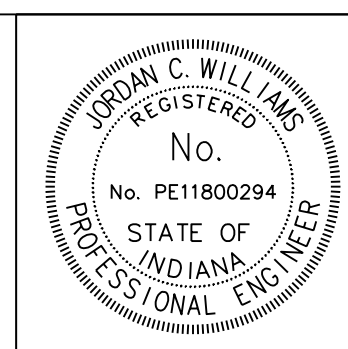
INDIANA
DEPARTMENT OF TRANSPORTATION

**I-70 AT HARDING STREET
CONSTRUCTION DETAILS**

HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	CD-04
ELECTRONIC	43	of 72
CONTRACT	PROJECT	
T-42856	1902693	



Kobayor
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 file: c:\cadd\ib\pwr\jshurton\grateakes\002\22768174066-ra-s-rd06.dgn

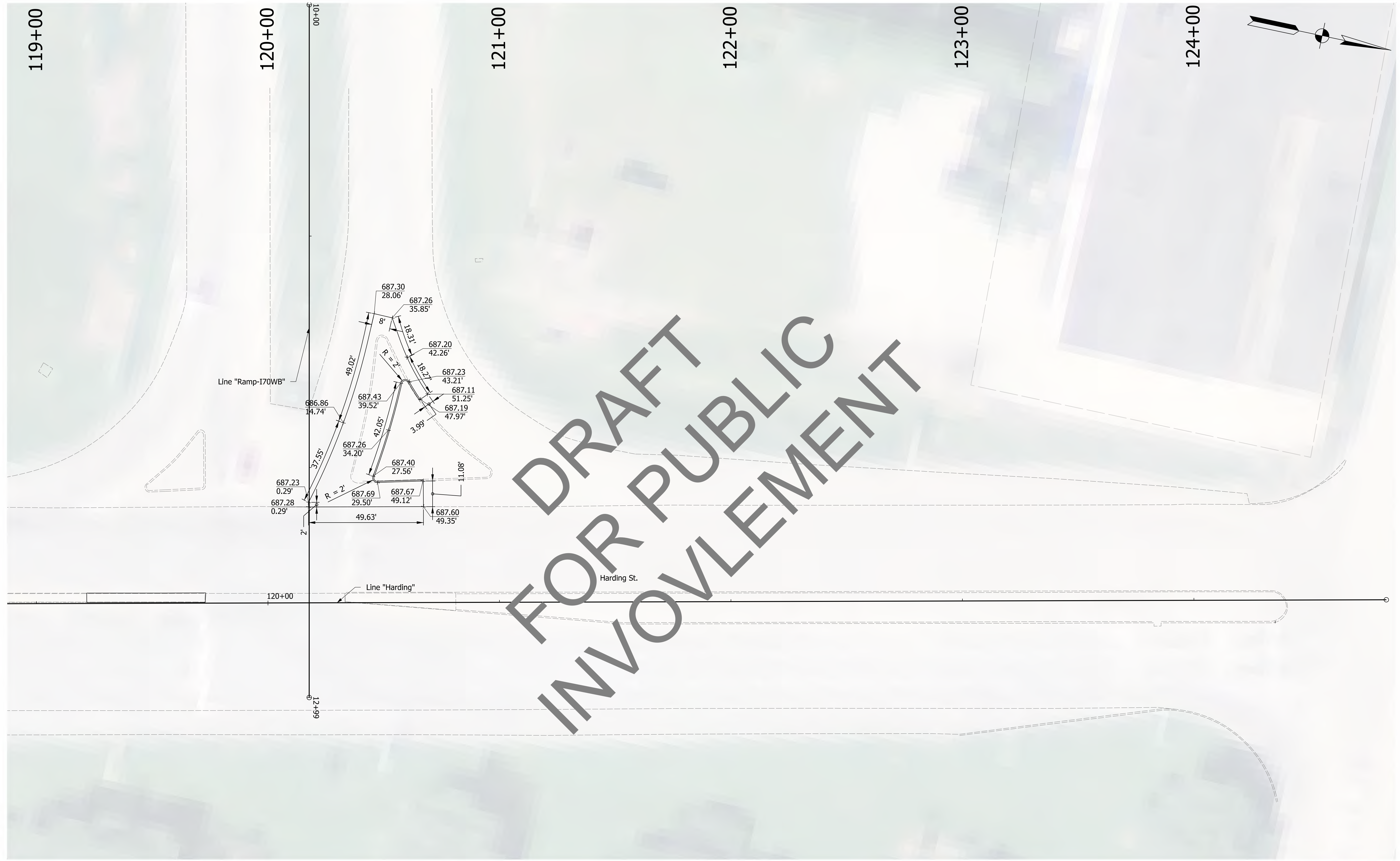


RECOMMENDED FOR APPROVAL	<i>J. Williams</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	NSX	DRAWN:	NSX	
CHECKED:	JCW	CHECKED:	JCW	

INDIANA
 DEPARTMENT OF TRANSPORTATION

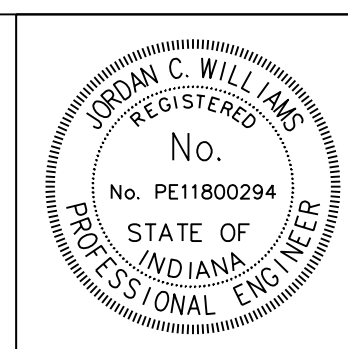
**I-70 AT HARDING STREET
 SPOT ELEVATION DETAIL**

HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	ID-03
ELECTRONIC	44	of 72
CONTRACT	PROJECT	
T-42856	1902693	



DRAFT
FOR PUBLIC
INVOLVEMENT

jshurton
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 model-Sheet42
 file: c:\cadd\ib\pwr\jshurton\grate\akes\00232768174066-r-r-s-rd06.dgn



RECOMMENDED FOR APPROVAL	<i>J. Williams</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	NSX	DRAWN:	NSX	
CHECKED:	JCW	CHECKED:	JCW	

INDIANA
DEPARTMENT OF TRANSPORTATION

**I-70 AT HARDING STREET
SPOT ELEVATION DETAIL**

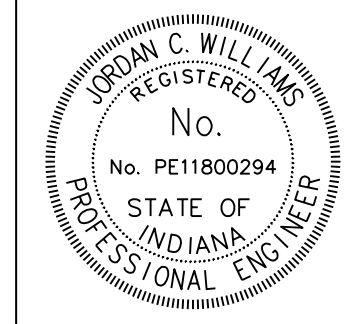
HORIZONTAL SCALE	BRIDGE FILE	
1"=20'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	ID-04
ELECTRONIC	45	of 72
CONTRACT	PROJECT	
T-42856	1902693	



LEGEND

- | | | |
|---|---|--|
| (71) Line, Multi-Component, Broken White, 4 IN. | (70) Line, Multi-Component, Dotted White, 4 IN. | ↖ Pavement Message Marking, Multi-Component, Lane Indication Arrow |
| (68) Line, Multi-Component, Solid White, 4 IN. | (73) Line, Multi-Component, Dotted White, 8 IN. | ONLY Pavement Message Marking, Multi-Component, "Only" |
| (69) Line, Multi-Component, Solid Yellow, 4 IN. | (72) Line, Multi-Component, Solid White, 8 IN. | ⊥ Proposed Sign and Single Post |
| (75) Transverse Marking, Multi-Component, Stop Line, 24 IN. | (74) Line, Multi-Component, Dotted, Yellow, 4 IN. | |
| (88) Transverse Marking, Multi-Component, Crossatch Line, Yellow, 12 IN. (20 ft. spacing) | | |

Notes:
Remove Existing Pavement Markings in conflict with existing pavement markings.

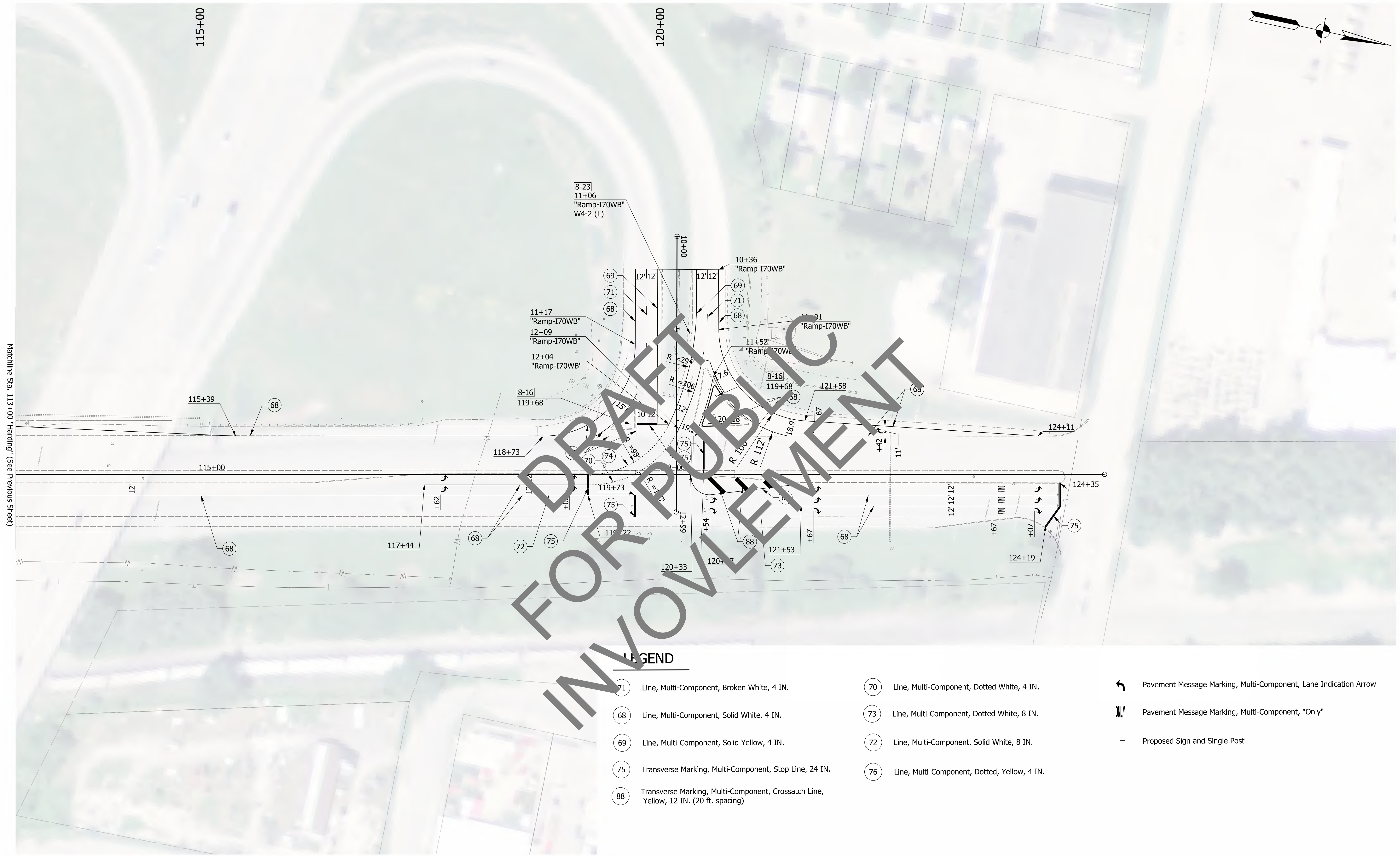


RECOMMENDED FOR APPROVAL: *J. Williams* DESIGN ENGINEER DATE: 4/6/2020
 DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

INDIANA DEPARTMENT OF TRANSPORTATION
 I-70 AT HARDING STREET
 SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS SPM-08
ELECTRONIC	46 of 72
CONTRACT	PROJECT
T-42856	1902693

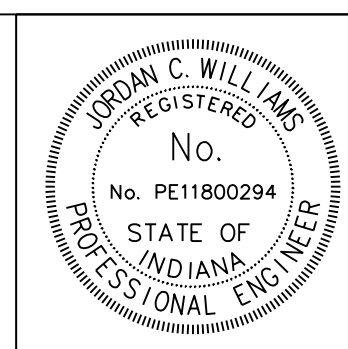
jrfoster
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 model:Sheet1
 file: c:\cadd\ib\p\hmb_jrfoster\greatakes\0232768\74068-rd-s-spm08.dgn



LEGEND

- 70 Line, Multi-Component, Broken White, 4 IN.
- 68 Line, Multi-Component, Solid White, 4 IN.
- 69 Line, Multi-Component, Solid Yellow, 4 IN.
- 75 Transverse Marking, Multi-Component, Stop Line, 24 IN.
- 88 Transverse Marking, Multi-Component, Crossatch Line, Yellow, 12 IN. (20 ft. spacing)
- 70 Line, Multi-Component, Dotted White, 4 IN.
- 73 Line, Multi-Component, Dotted White, 8 IN.
- 72 Line, Multi-Component, Solid White, 8 IN.
- 76 Line, Multi-Component, Dotted, Yellow, 4 IN.
- Pavement Message Marking, Multi-Component, Lane Indication Arrow
- Pavement Message Marking, Multi-Component, "Only"
- Proposed Sign and Single Post

Notes:
Remove Existing Pavement Markings in conflict with existing pavement markings.



RECOMMENDED FOR APPROVAL: *J. Williams* DESIGN ENGINEER DATE: 4/6/2020
 DESIGNED: NSX DRAWN: NSX
 CHECKED: JCW CHECKED: JCW

INDIANA DEPARTMENT OF TRANSPORTATION
 I-70 AT HARDING STREET
 SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS SPM-09
ELECTRONIC	47 of 72
CONTRACT	PROJECT
T-42856	1902693

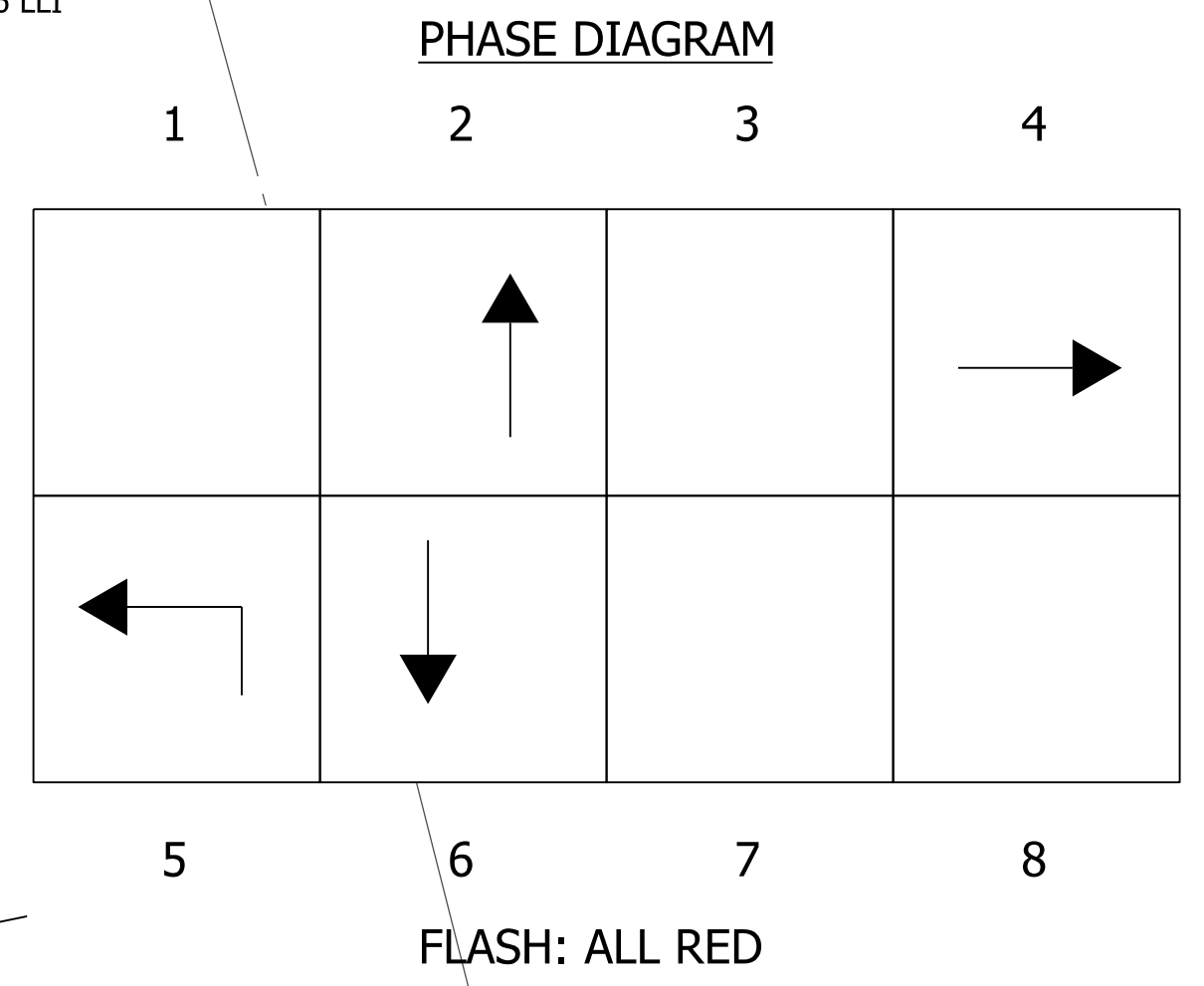
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 file:c:\cadd\ib\p\hmb_jrfoster\greatakes\0222768\74068-rd-s-ppm08.dgn

Item #	Item	Quantity	Unit
805-01830	CONFLICT MONITOR CHANGEOUT	1	EACH
805-01842	HANDHOLE, SIGNAL, TYPE 1	1	EACH
805-08244	CELLULAR MODEM KIT, MODEM CELLULAR ASSEMBLY	1	EACH
805-09539	LOOP DETECTOR DELAY AMPLIFIER, COUNTING, 2 CH	1	EACH
805-11814	2-INCH HDPE SCHEDULE 40	21	LFT
805-11815	2-INCH HDPE SCHEDULE 80	55	LFT
805-78205	TRAFFIC SIGNAL HEAD, 3 FACE, 12 IN. RED, AMBER, GREEN	8	EACH
805-78415	SPAN, CATENARY, AND TETHER	3	EACH
805-78420	DISCONNECT HANGER	3	EACH
805-78470	SIGNAL CABLE, ROADWAY LOOP, COPPER, 1C/14 GA	764	LFT
805-78485	SIGNAL CABLE, 5C 14GA	295	LFT
805-78490	SIGNAL CABLE, 7C 14GA	194	LFT
805-78500	SIGNAL CABLE, 11C 14GA	708	LFT
805-78510	SIGNAL CABLE, 2C 16GA SHIELDED	705	LFT
805-78785	SIGNAL DETECTOR HOUSING	2	EACH
805-78795	SAW CUT FOR ROADWAY LOOP AND SEALER	349	LFT
805-92504	LOOP DETECTOR DELAY AMPLIFIER, 2 CH	2	EACH

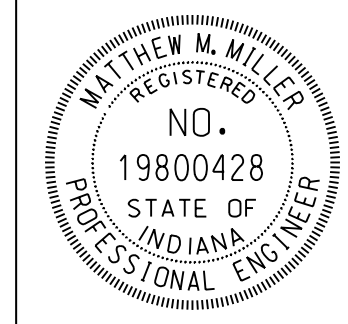
Loop No. or Channel	Direction	Lane	Phase	Loops	C	C#	Lead-In and Rack Labels
-	N	LA	5	1,2,3,4	*		-NLAS-1,2,3,4 *
-	N	LB	5	1,2,3,4	*		-NLBS-1,2,3,4 *
-	N	A	2	1	*		-NA2-1 *
-	N	B	2	1	*		-NB2-1 *
-	E	A	4	1,2,3,4	*		-EA4-1,2,3,4 *
-	E	B	4	1,2,3,4	*		-EB4-1,2,3,4 *
-	E	R	4	1	*		-ER4-1 *
-	S	A	6	1	*		-SA6-1 *
-	S	B	6	1	*		-SB6-1 *
-	S	C	6	1	*		-SC6-1 *
-	S	R	6	1	*		-SR1-1 *

- LEGEND**
- TRAFFIC SIGNAL HEAD, 3 FACE, 12"
 - TRAFFIC SIGNAL HEAD, 3 FACE, LEFT ARROW, 12"
 - EX. HANDHOLE, SIGNAL
 - HANDHOLE, SIGNAL
 - ⊠ EX. CONTROLLER AND CABINET, P1
 - EX. CONDUIT
 - 2" HDPE CONDUIT
 - 36 ○ EX. SIGNAL STRAIN POLE
 - ① EX. DETECTOR LOOP, 6', 4 TURN SERIES
 - ① DETECTOR LOOP, 6', 4 TURN SERIES
 - EX. SIGNAL DETECTOR HOUSING
 - SIGNAL DETECTOR HOUSING
 - ⊥ SIGNAL DISCONNECT HANGER
 - ⊥ PROPOSED SIGN
 - ⊥ EXISTING SIGN
 - 54 ○ REMOVE EXISTING SHEET SIGN

NOTE:
CONTRACTOR SHALL INSTALL CELLULAR MODEM AND NEW MMU IN SIGNAL CABINET



jrfoster
 2/27/2020 5:05:25 pm
 model:Sheet1
 file:c:\cad\dlb\p\hmb_jrfoster\greatlakes\02327681\74068-rd-s-g08.dgn



RECOMMENDED FOR APPROVAL: *Matthew Miller*, DESIGN ENGINEER, DATE: 4/6/2020

DESIGNED: RAW, DRAWN: RAW, CHECKED: MMM, CHECKED: MMM

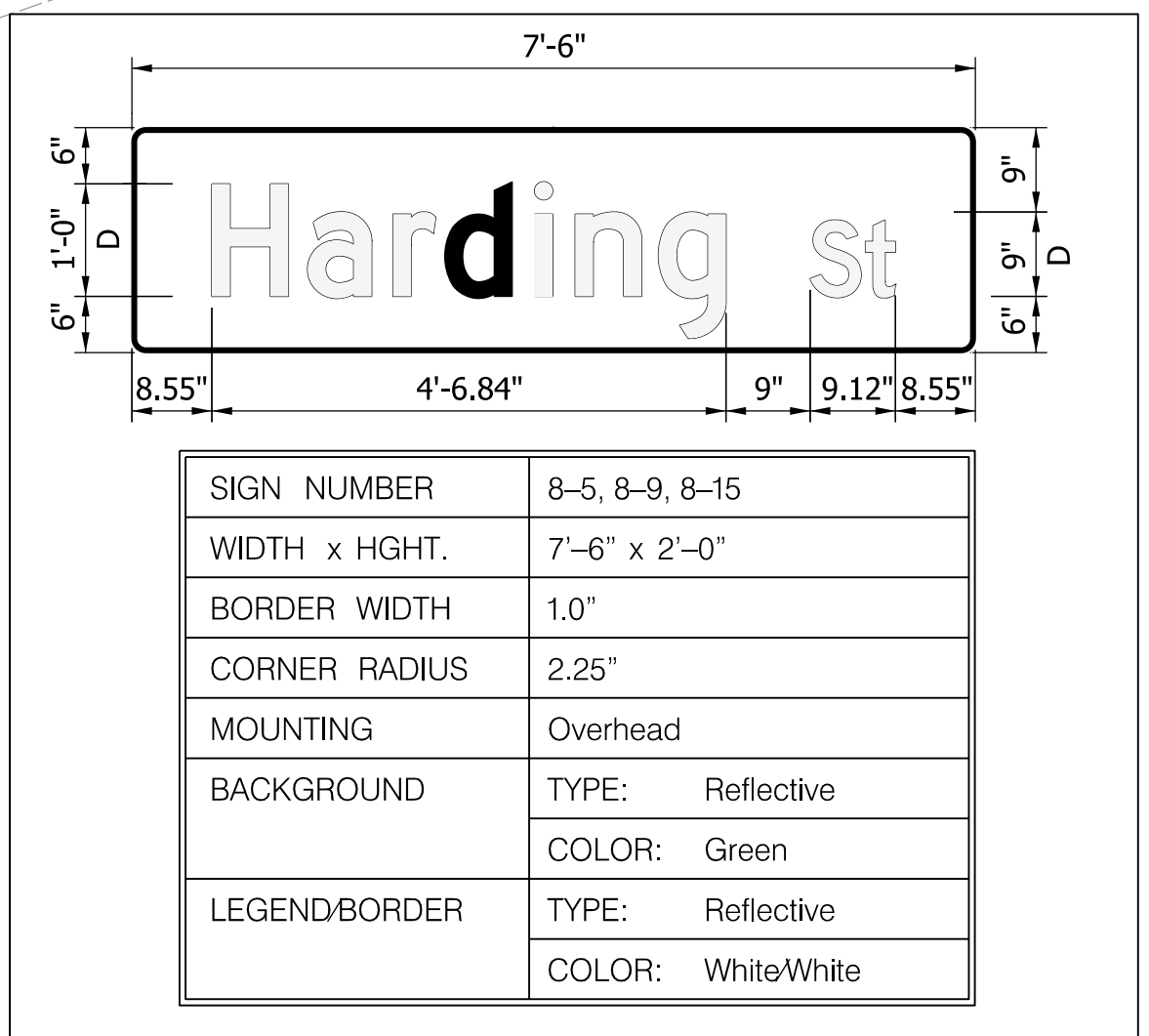
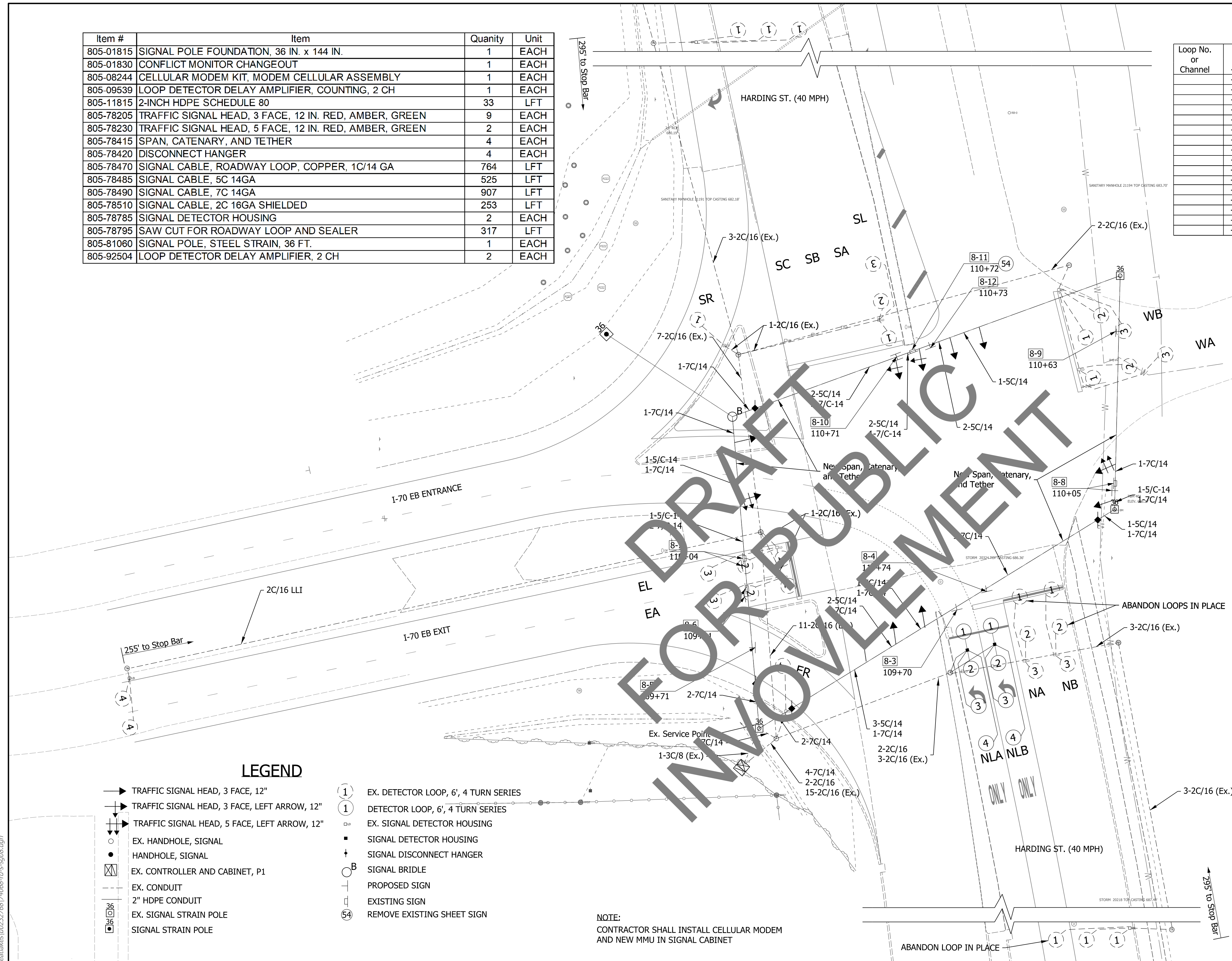
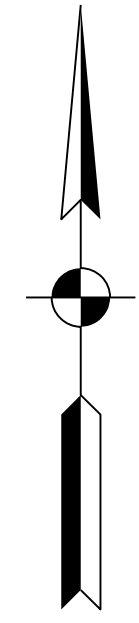
INDIANA DEPARTMENT OF TRANSPORTATION

I-70 AT HARDING STREET SIGNAL DETAIL
MARION COUNTY, GREENFIELD DISTRICT

COMM NO. 01-049-453	
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS SG-04
ELECTRONIC	48 of 72
CONTRACT	PROJECT
T-42856	1902693

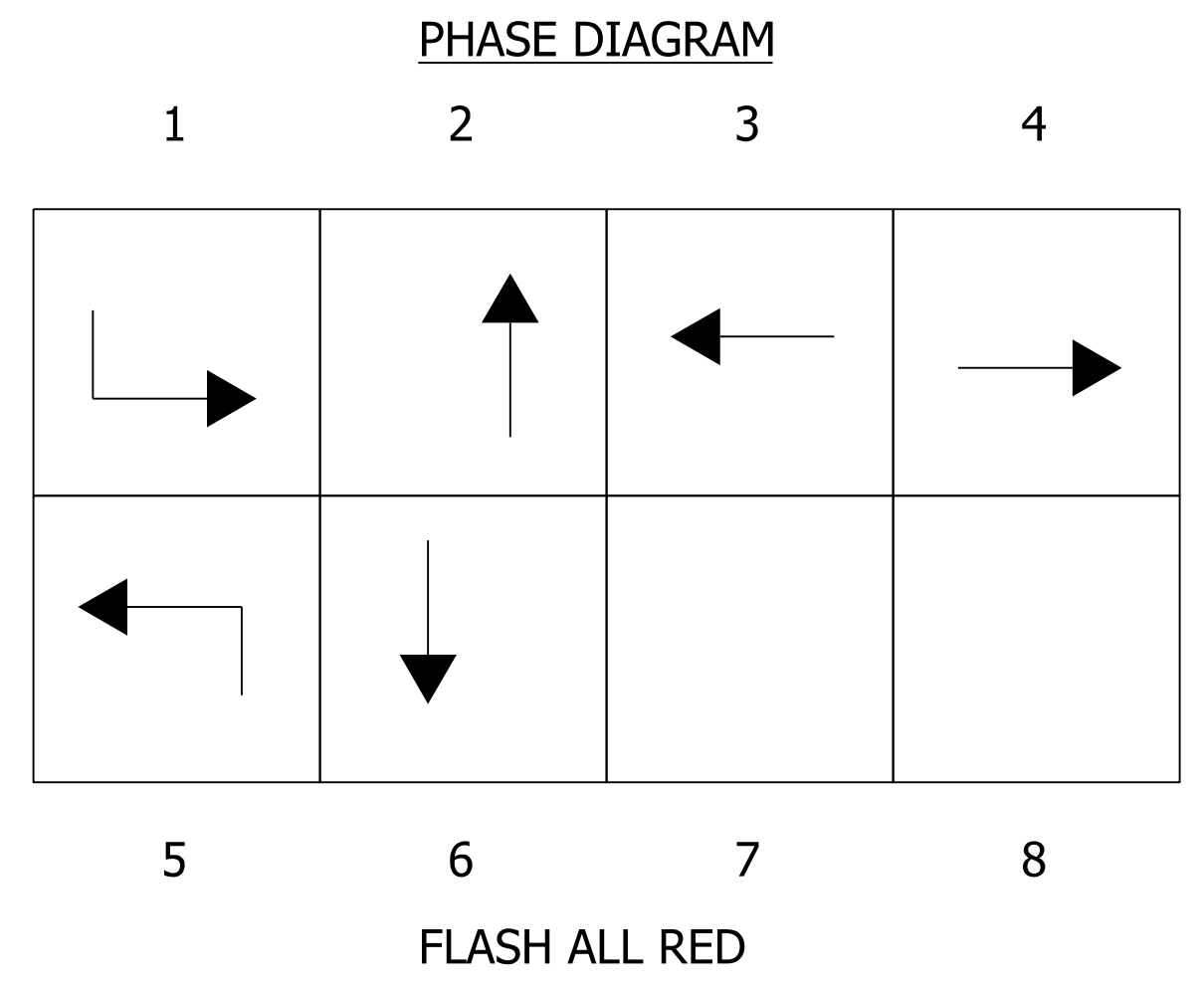
Item #	Item	Quantity	Unit
805-01815	SIGNAL POLE FOUNDATION, 36 IN. x 144 IN.	1	EACH
805-01830	CONFLICT MONITOR CHANGEOUT	1	EACH
805-08244	CELLULAR MODEM KIT, MODEM CELLULAR ASSEMBLY	1	EACH
805-09539	LOOP DETECTOR DELAY AMPLIFIER, COUNTING, 2 CH	1	EACH
805-11815	2-INCH HDPE SCHEDULE 80	33	LFT
805-78205	TRAFFIC SIGNAL HEAD, 3 FACE, 12 IN. RED, AMBER, GREEN	9	EACH
805-78230	TRAFFIC SIGNAL HEAD, 5 FACE, 12 IN. RED, AMBER, GREEN	2	EACH
805-78415	SPAN, CATENARY, AND TETHER	4	EACH
805-78420	DISCONNECT HANGER	4	EACH
805-78470	SIGNAL CABLE, ROADWAY LOOP, COPPER, 1C/14 GA	764	LFT
805-78485	SIGNAL CABLE, 5C 14GA	525	LFT
805-78490	SIGNAL CABLE, 7C 14GA	907	LFT
805-78510	SIGNAL CABLE, 2C 16GA SHIELDED	253	LFT
805-78785	SIGNAL DETECTOR HOUSING	2	EACH
805-78795	SAW CUT FOR ROADWAY LOOP AND SEALER	317	LFT
805-81060	SIGNAL POLE, STEEL STRAIN, 36 FT.	1	EACH
805-92504	LOOP DETECTOR DELAY AMPLIFIER, 2 CH	2	EACH

Loop No. or Channel	Direction	Lane	Phase	Loops	C	C#	Lead-In and Rack Labels
-	N	LA	5	1,2,3,4	*		-NLAS-1,2,3,4 *
-	N	LB	5	1,2,3,4	*		-NLB5-1,2,3,4 *
-	N	A	2	1	*		-NA2-1 *
-	N	B	2	1	*		-NB2-1 *
-	E	L	4	1,2,3	*		-EL4-1,2,3 *
-	E	L	4	4	*		-EL4-4
-	E	A	4	1,2,3	*		-EA4-1,2,3 *
-	E	A	4	4	*		-EA4-4
-	E	R	4	1	*		-ER4-1 *
-	S	L	1	1,2,3	*		-SL1-1,2,3 *
-	S	A	6	1	*		-SA6-1
-	S	B	6	1	*		-SB6-1
-	S	C	6	1	*		-SC6-1 *
-	S	R	1	1	*		-SR1-1 *
-	W	A	3	1,2,3	*		-WA3-1,2,3 *
-	W	B	3	1,2,3	*		-WB3-1,2,3 *

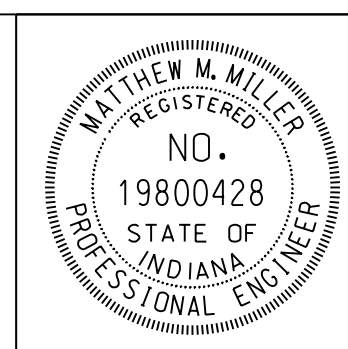


	TRAFFIC SIGNAL HEAD, 3 FACE, 12"		EX. DETECTOR LOOP, 6', 4 TURN SERIES
	TRAFFIC SIGNAL HEAD, 3 FACE, LEFT ARROW, 12"		DETECTOR LOOP, 6', 4 TURN SERIES
	TRAFFIC SIGNAL HEAD, 5 FACE, LEFT ARROW, 12"		EX. SIGNAL DETECTOR HOUSING
	EX. HANDHOLE, SIGNAL		SIGNAL DETECTOR HOUSING
	HANDHOLE, SIGNAL		SIGNAL DISCONNECT HANGER
	EX. CONTROLLER AND CABINET, P1		SIGNAL BRIDLE
	EX. CONDUIT		PROPOSED SIGN
	2" HDPE CONDUIT		EXISTING SIGN
	EX. SIGNAL STRAIN POLE		REMOVE EXISTING SHEET SIGN
	SIGNAL STRAIN POLE		

NOTE:
CONTRACTOR SHALL INSTALL CELLULAR MODEM AND NEW MMU IN SIGNAL CABINET



jsburton
 2/27/2020 5:05:25 pm
 model: Sheet2
 file: c:\cadd\lib\p\lmb..._jrfrcstet\greatakes\0222768174068-rd-s-gp08.dgn



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	4/6/2020
	DESIGN ENGINEER	DATE
DESIGNED:	RAW	DRAWN:
		RAW
CHECKED:	MMM	CHECKED:
		MMM

INDIANA
DEPARTMENT OF TRANSPORTATION

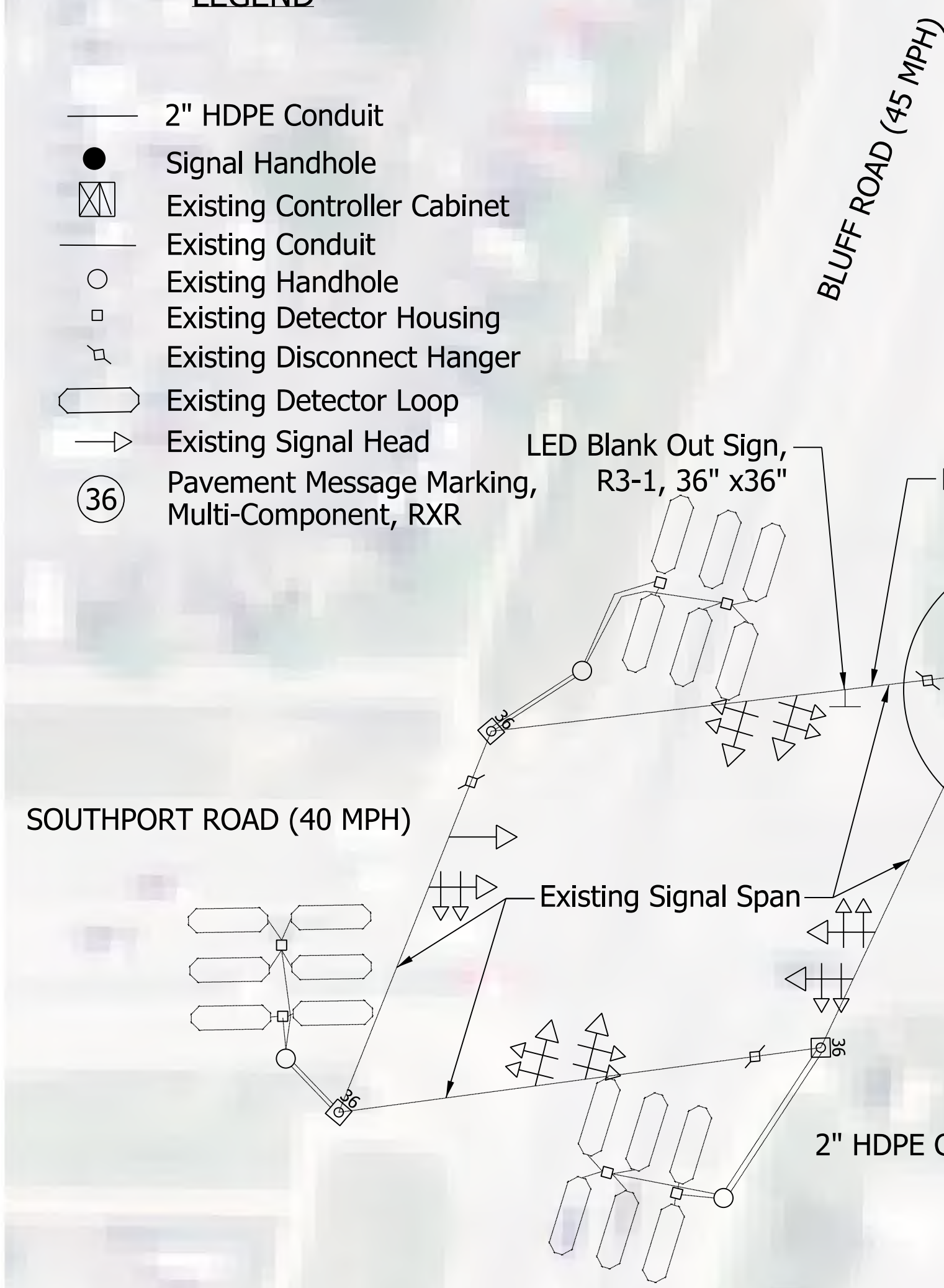
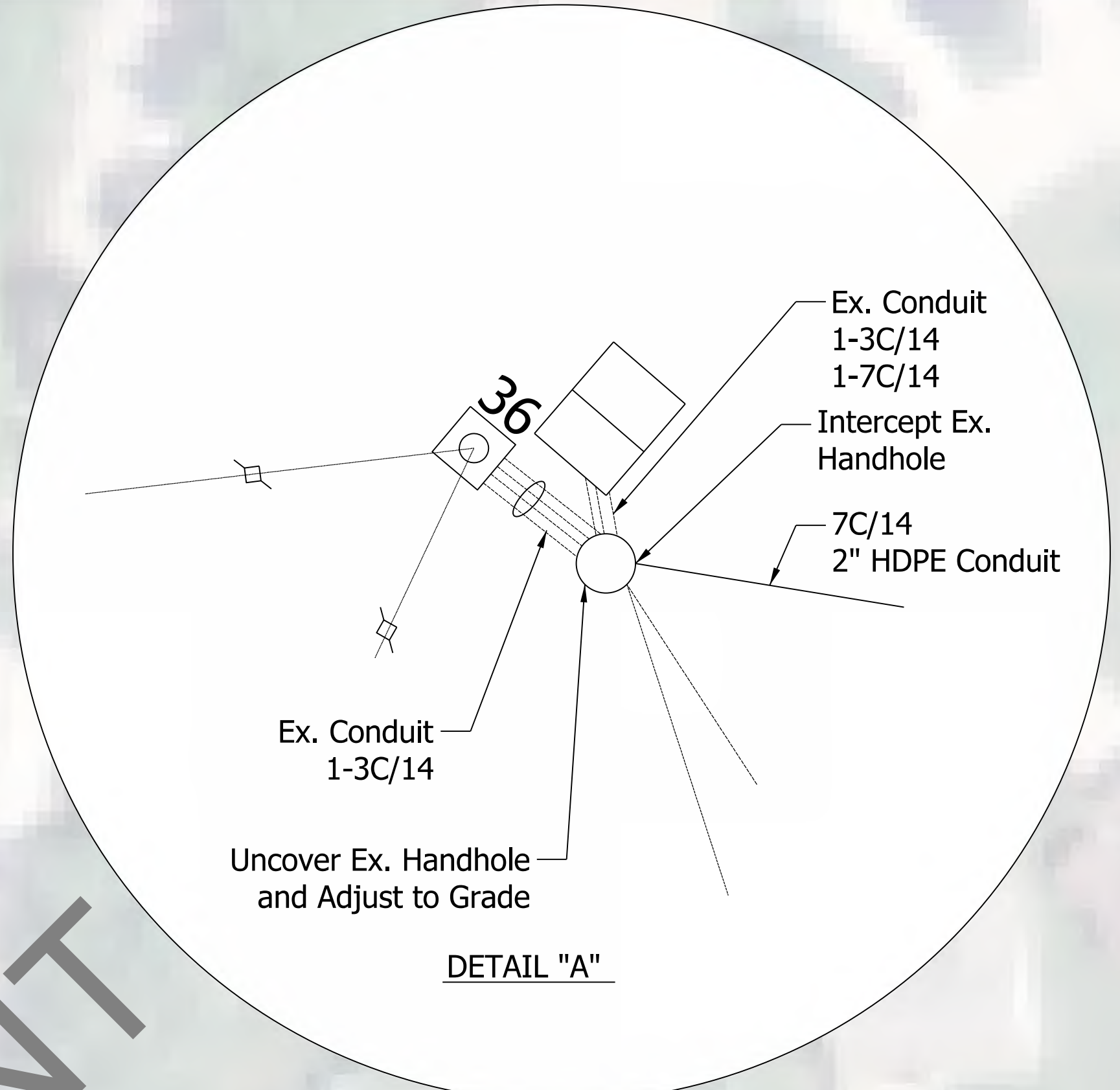
I-70 AT HARDING STREET
SIGNAL DETAIL
MARION COUNTY, GREENFIELD DISTRICT

COMM NO. 01-049-477	BRIDGE FILE
HORIZONTAL SCALE	N/A
1"=20'	DESIGNATION
VERTICAL SCALE	2001152
N/A	
SURVEY BOOK	SHEETS SG-05
ELECTRONIC	49 of 72
CONTRACT	PROJECT
T-42856	1902693

Item #	Item	Quantity	Unit
802-10172	SIGN, LED BLANKOUT	1	EACH
805-01842	HANDHOLE SIGNAL TYPE 1	4	EACH
805-01843	SIGNAL HANDHOLE ADJUST TO GRADE	1	EACH
805-11814	CONDUIT, HDPE, 2 IN. SCHEDULE 40	110	FT
805-11815	CONDUIT, HDPE, 2 IN. SCHEDULE 80	168	FT
805-78480	SIGNAL CABLE, CONTROL, COPPER, 3C/14 GA.	113	FT
805-78490	SIGNAL CABLE, CONTROL, COPPER, 7C/14 GA.	391	FT

LEGEND

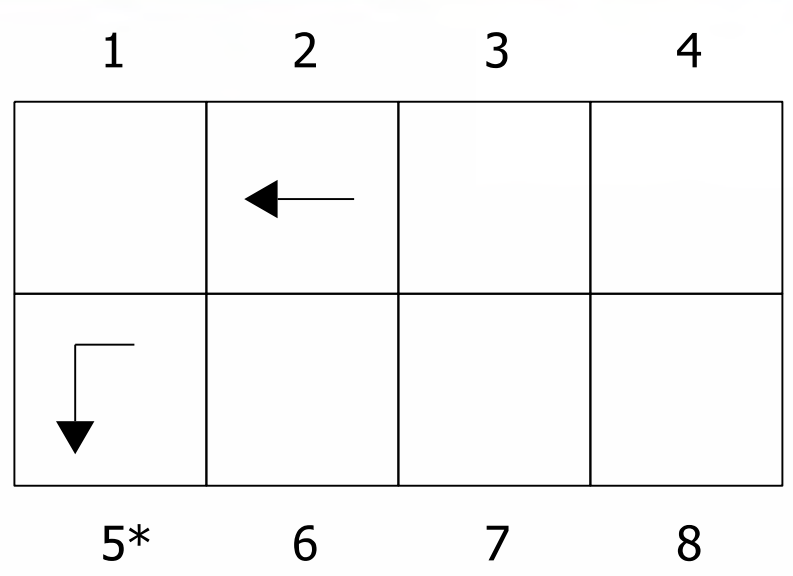
- 2" HDPE Conduit
- Signal Handhole
- ⊠ Existing Controller Cabinet
- Existing Conduit
- Existing Handhole
- Existing Detector Housing
- ⊔ Existing Disconnect Hanger
- ⬭ Existing Detector Loop
- Existing Signal Head
- Ⓟ Pavement Message Marking, Multi-Component, RXR



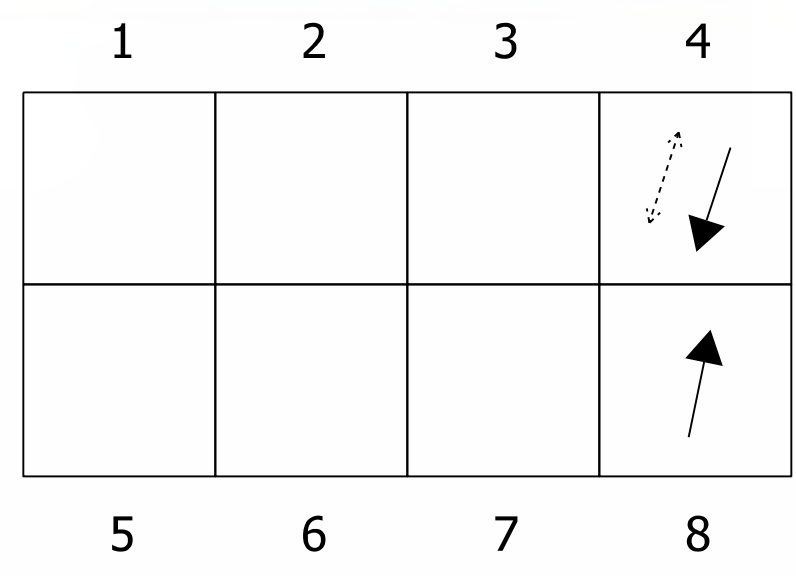
DRAFT FOR PUBLIC INVOLVEMENT

RIGHT OF WAY TRANSFER TIME = 15 SEC.
 TRACK CLEARANCE GREEN TIME = 62 SEC.
 ADVANCED PREEMPTION TIME = XXX SEC.
 (FROM RAILROAD)

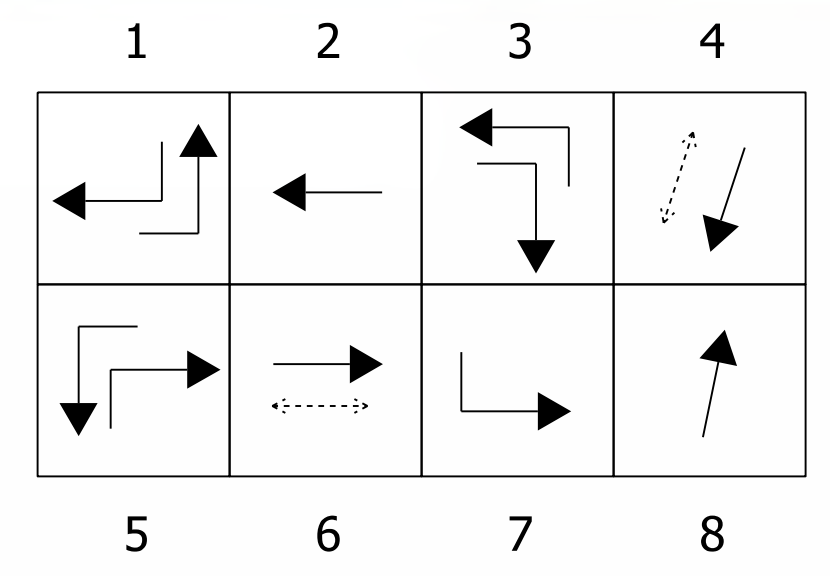
RR PREEMPTION TIMING



RR PREEMPTION TCG PHASE DIAGRAM
 * OMIT NBRT OVERLAP IN PHASE 5 AND ACTIVATE LED BLANK OUT R3-1 SIGN FOR NORTHBOUND TRAFFIC

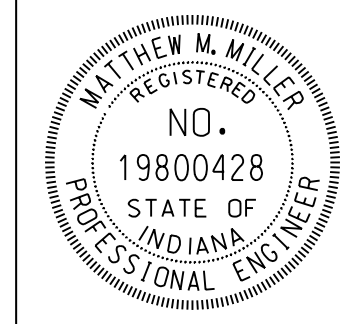


RR PREEMPTION HOLD PHASE DIAGRAM
 ACTIVATE LED BLANK OUT R3-1 SIGN FOR NORTHBOUND TRAFFIC



EX. PHASE DIAGRAM
 ALL RED FLASH

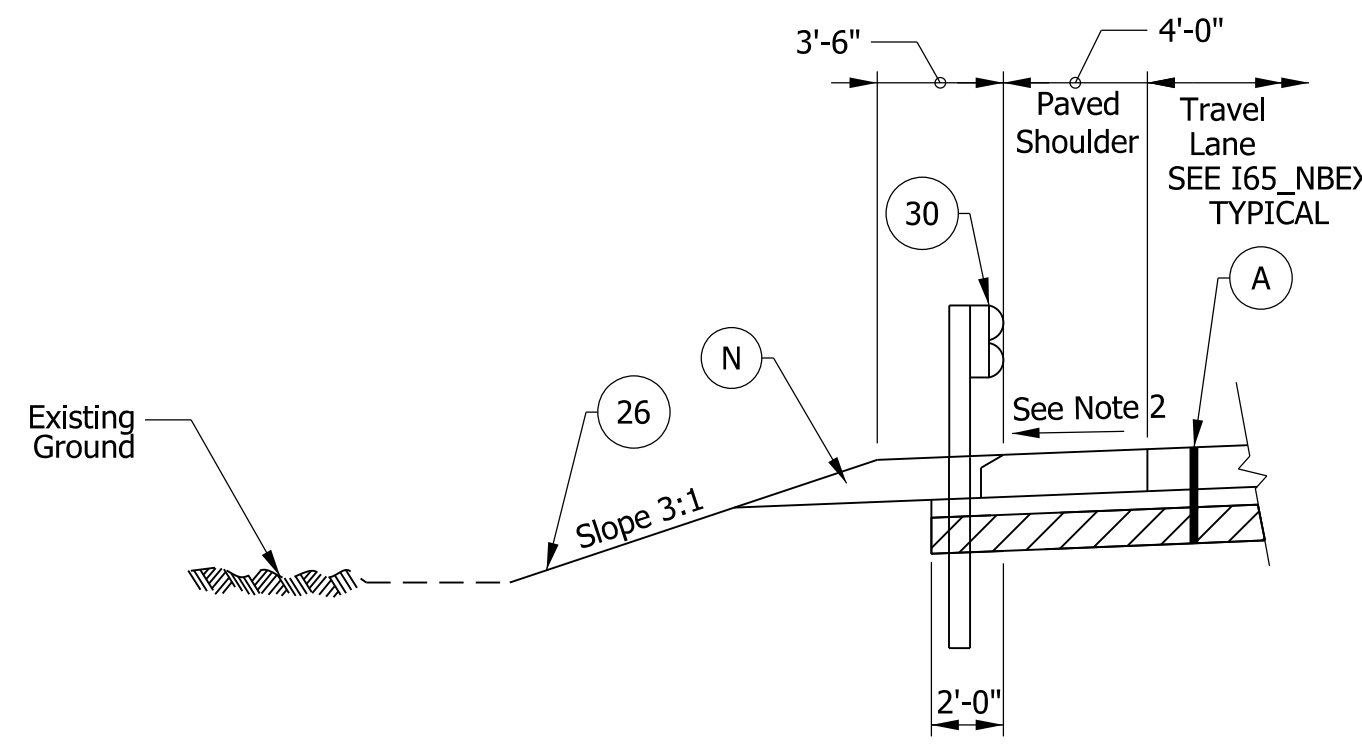
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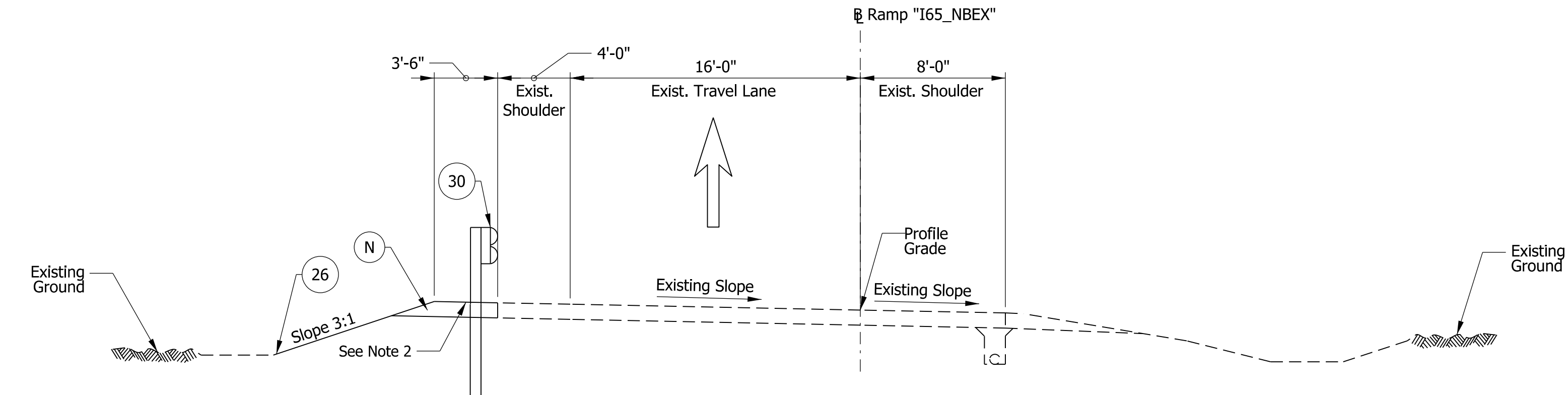
RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	DESIGN ENGINEER	DATE
			4/6/2020
DESIGNED: _____	RAW	DRAWN: _____	RAW
CHECKED: _____	MMM	CHECKED: _____	MMM

INDIANA
 DEPARTMENT OF TRANSPORTATION
 BLUFF ROAD & SOUTHPORT ROAD
 SIGNAL DETAIL
 INTERSECTION CONTROL #001035

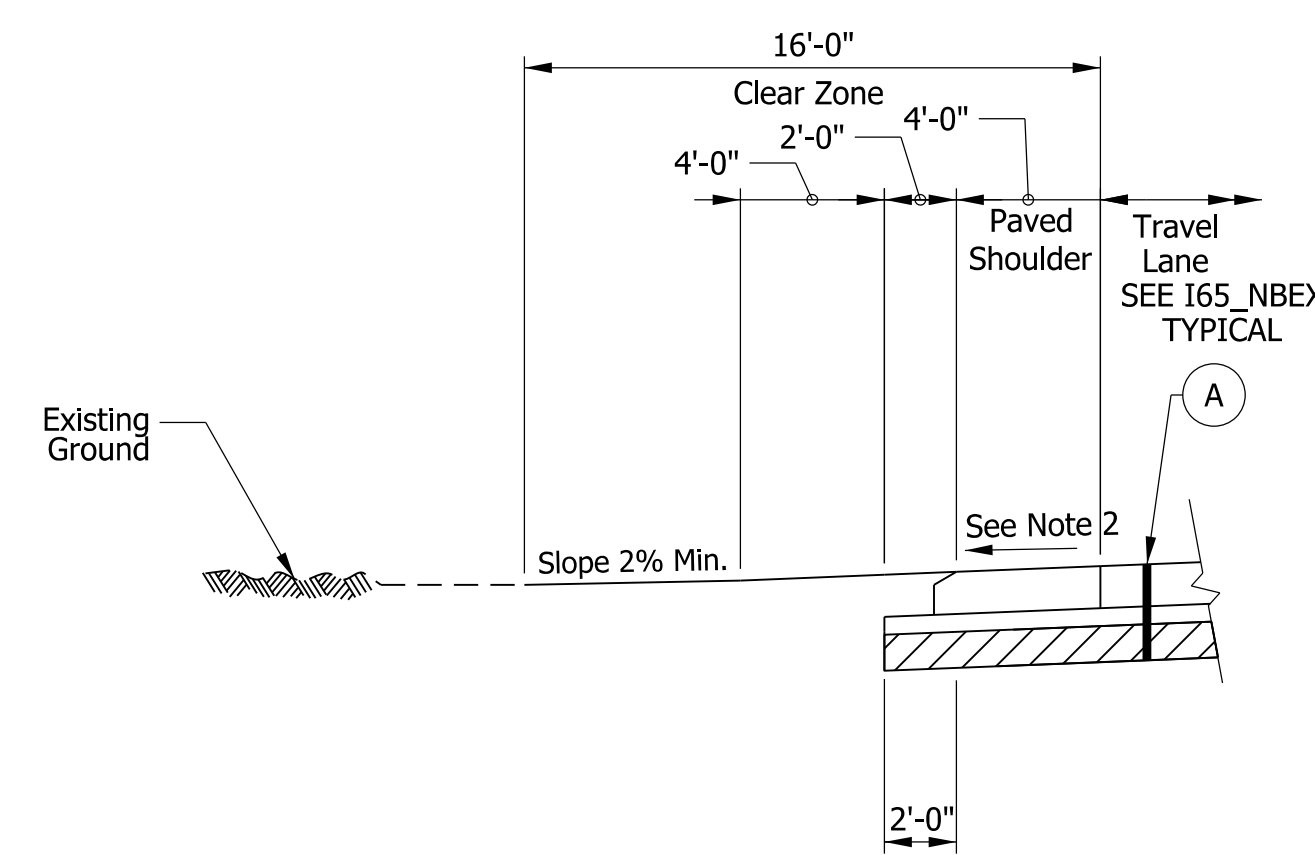
HORIZONTAL SCALE	BRIDGE FILE	
1"=30'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	1902693	
SURVEY BOOK	SHEETS	SG-06
ELECTRONIC	52	of 72
CONTRACT	PROJECT	
T-42856	1902693	



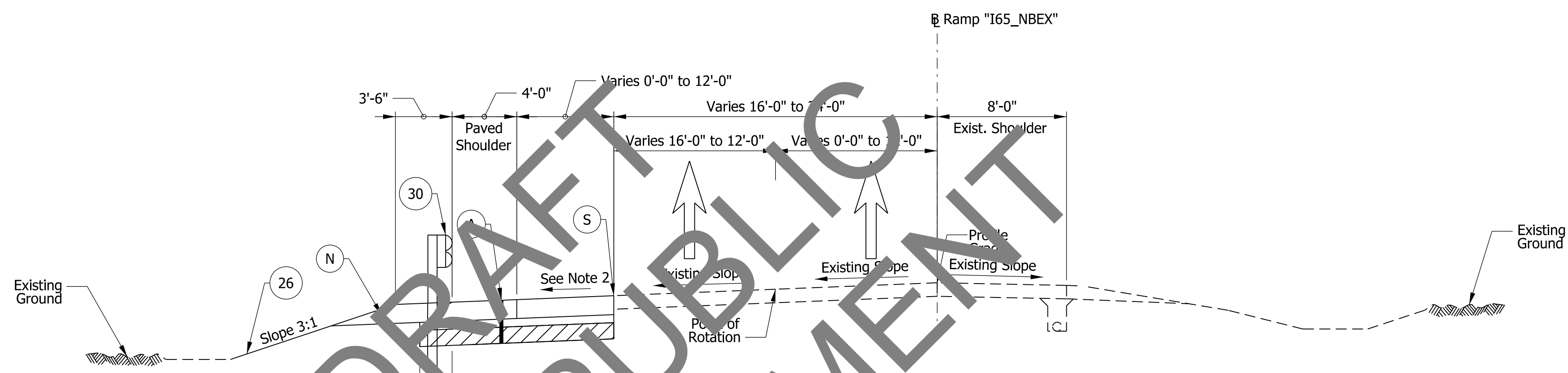
I65_NBEX GUARDRAIL DETAIL "A"
 STA. 112+21.00 Lt. "I65_NBEX" TO
 STA. 112+89.16 Lt. "I65_NBEX"



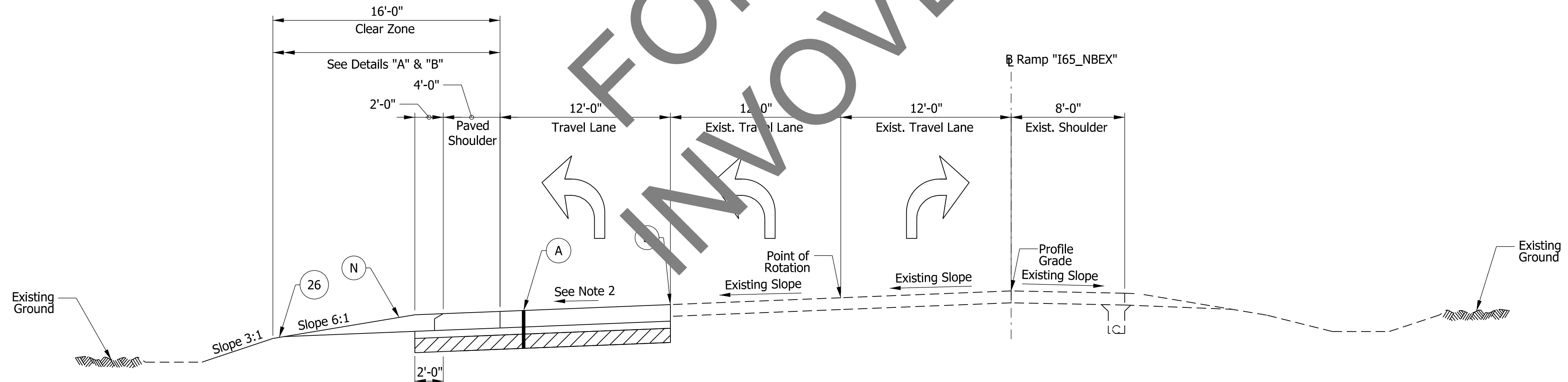
RAMP TYPICAL SECTION IN SUPERELEVATION
 Sta. 109+91.85 to Sta. 110+76.00 Ramp "I65_NBEX"



I65_NBEX CUT DETAIL "B"
 STA. 113+50.00 Lt. "I65_NBEX" to
 STA. 115+98.19 Lt. "I65_NBEX"



RAMP TYPICAL SECTION IN SUPERELEVATION
 Sta. 110+76.00 to Sta. 112+21.00 Ramp "I65_NBEX"



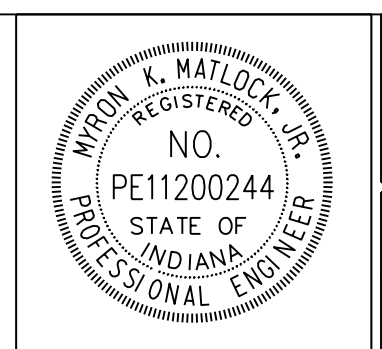
RAMP TYPICAL SECTION IN SUPERELEVATION
 Sta. 112+21.00 to Sta. 115+98.19 Ramp "I65_NBEX"

- Notes:**
1. Match Adjacent Joint Spacing with 1-1/2 In. Diameter Dowels per ISS. Retrofit No. 6 Tie Bars for Longitudinal Joint Between Existing and Proposed Pavement per ISS.
 2. Refer to Spot Elevation Details at Intersection. Cross Slope to Follow Adjacent Lane Prior to Intersection.

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- Legend**
- (A) 14.0" PCCP with D-1 Contraction Joint with a maximum spacing of 20 feet (match existing adjacent joints) with 1.5" dowels Dense Grade Subbase (6" of #53 aggregate) Subgrade Treatment, Type ID
 - (N) Compacted Aggregate, No. 53
 - (S) Sawcut (No Direct Pay)
 - (26) Mulched Seeding, U
 - (30) Guardrail MGS W-Beam

jsburton 3/25/2020 6:28:40 pm model:Sheet1 file:c:\cadd\ib\p\jsburton\grathtakes\00232752\74068-rd-s-tp11.dgn

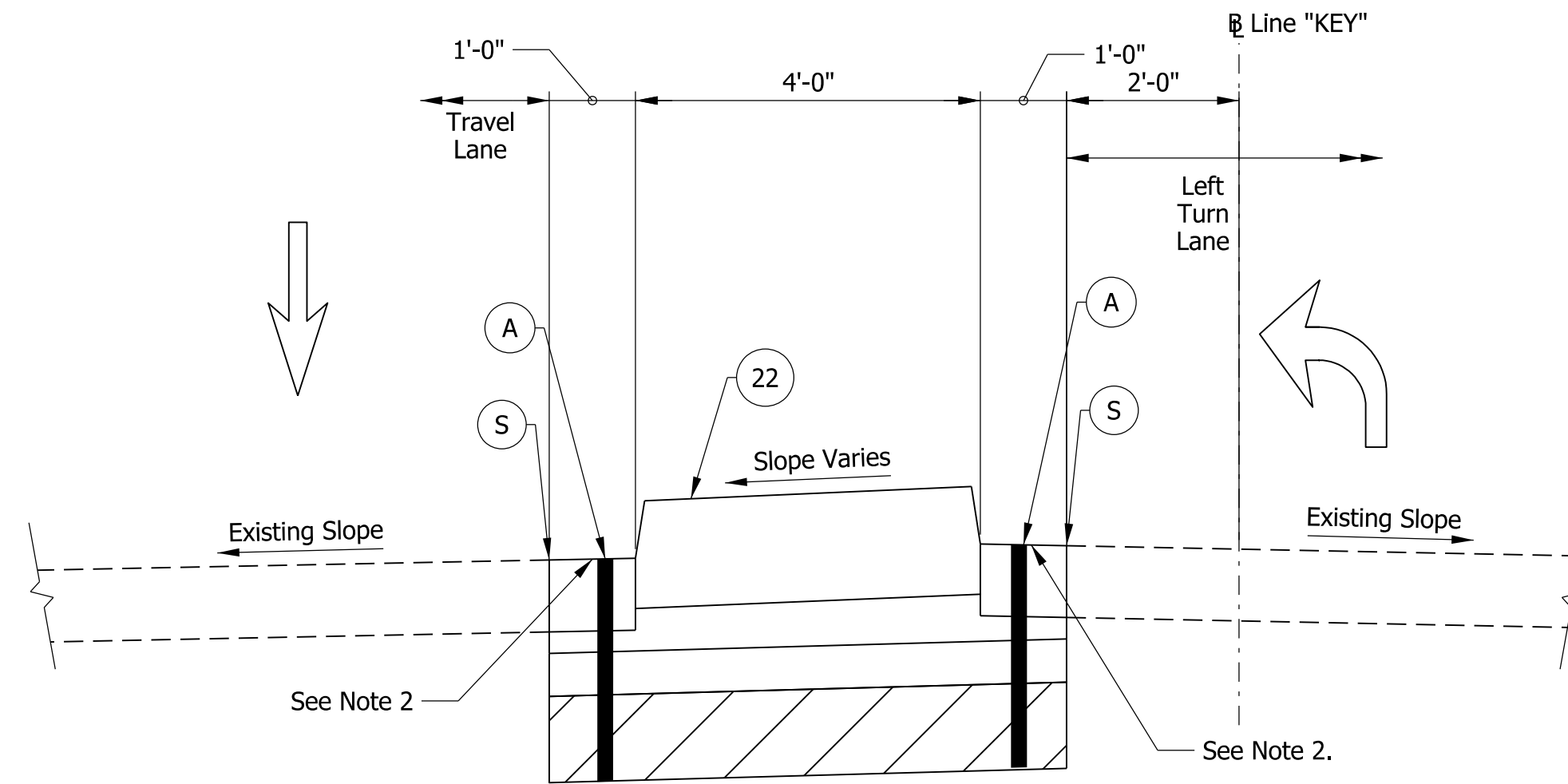


RECOMMENDED FOR APPROVAL	<i>M. K. M.</i>	DESIGN ENGINEER	4/6/2020	DATE
DESIGNED:	MKM	DRAWN:	MKM	
CHECKED:	HER	CHECKED:	HER	

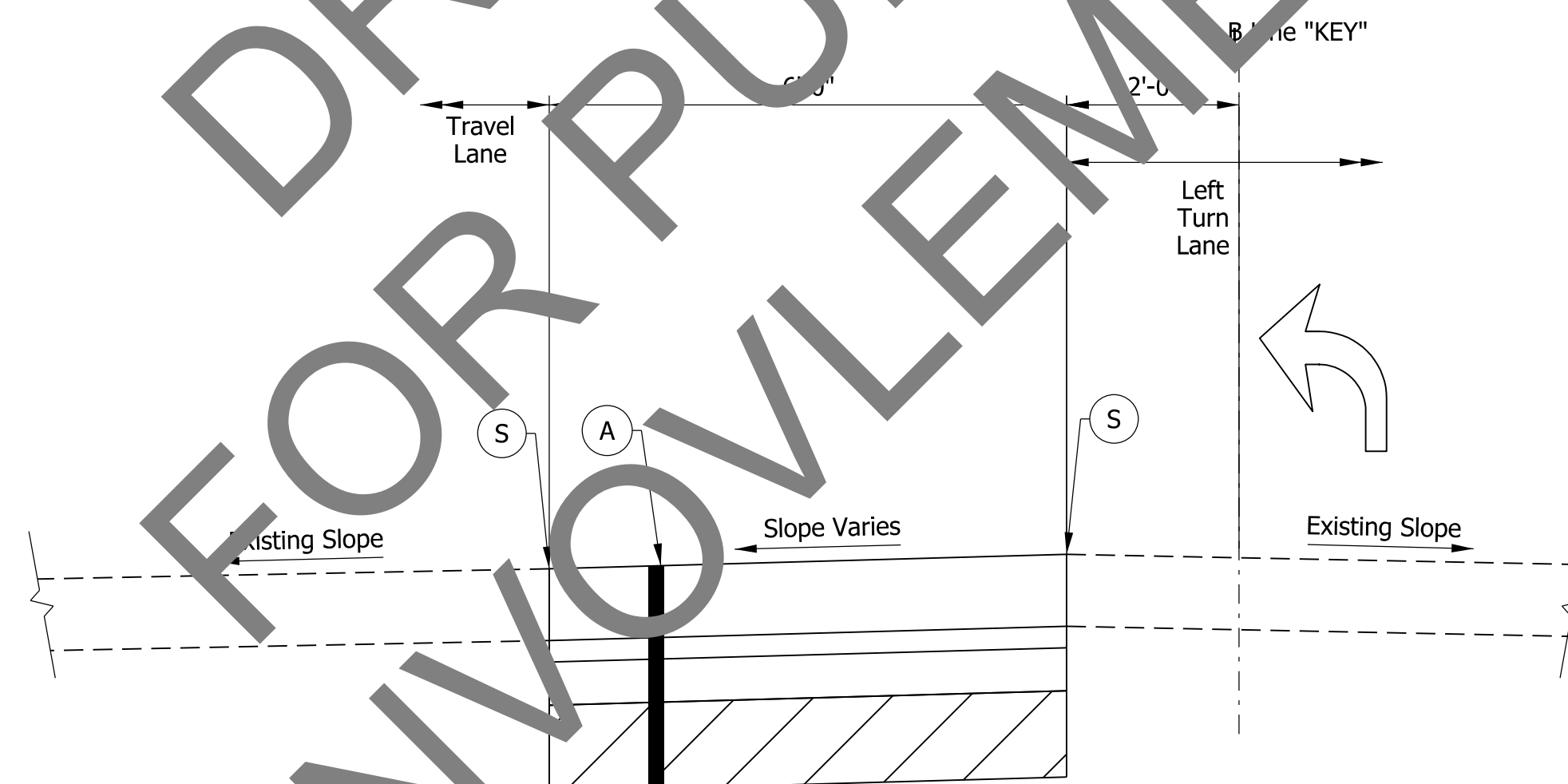
INDIANA DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
3/16" = 1'-0"	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	TS-07
ELECTRONIC	53	of 72
CONTRACT	PROJECT	
T-42856	1902693	



TYPICAL SECTION IN TANGENT
Sta. 504+92.00 to Sta. 505+02.00 Line "KEY"
(Not to Scale)



TYPICAL SECTION IN TANGENT
Sta. 505+02.00 to Sta. 505+62.00 Line "KEY"
(Not to Scale)

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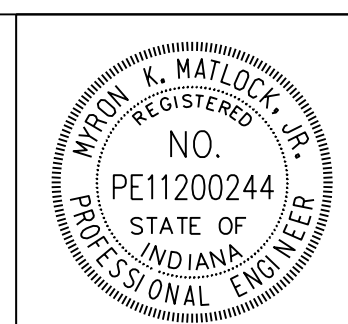
Legend

- (A) 14.0" PCCP with D-1 Contraction Joint with a maximum spacing of 20 feet (match existing adjacent joints) with 1.5" dowels Dense Grade Subbase (6" of #53 aggregate) Subgrade Treatment, Type ID
- (S) Sawcut (No Direct Pay)
- (22) Concrete Center Curb, Type C

Notes:

1. Match Adjacent Joint Spacing with 1-1/4 In. Diameter Dowels per ISS. Retrofit No. 6 Tie Bars for Longitudinal Joint Between Existing and Proposed Pavement per ISS.
2. Cross Slope to Follow Adjacent Lane.

jsburton 3/25/2020 6:28:40 pm model-Sheet42 file: c:\additib\pwr\jsburton\grmatkex\00232752174068-rad-s-typl1.dgn



RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER
DESIGNED: MKM	DRAWN: MKM
CHECKED: HER	CHECKED: HER
	4/6/2020 DATE

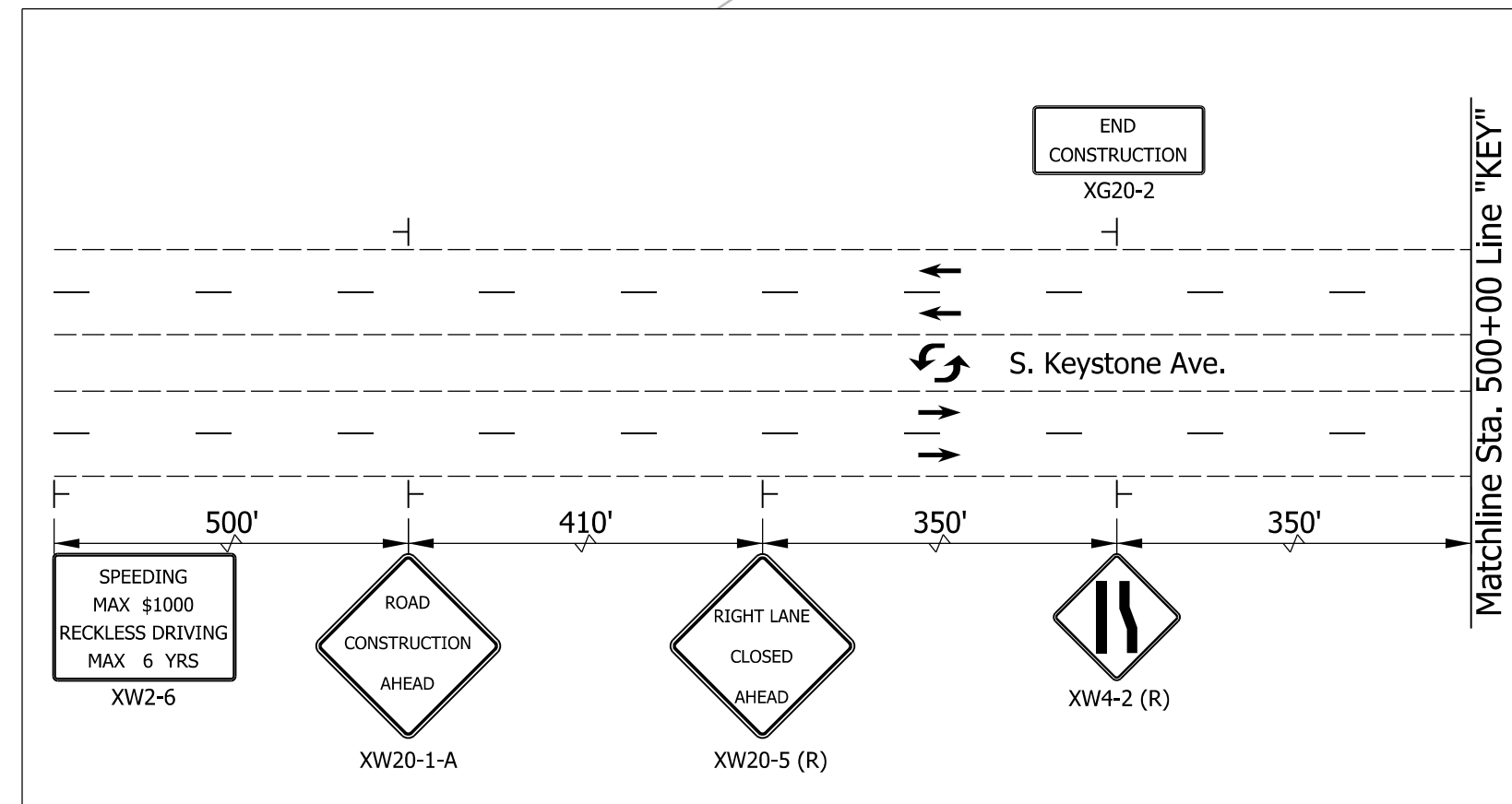
INDIANA DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS TS-08
ELECTRONIC	54 of 72
CONTRACT	PROJECT
T-42856	1902693

M.O.T. LEGEND

- ☒ Construction Area
- Standard Drum
- ⊥ Typical Sign Standard
- Direction Of Traffic
- ⚡ Flashing Arrow Sign
- ① Temporary Pavement Marking, 4 In, (Solid Yellow)
- ② Temporary Pavement Marking, 4 In, (Solid White)



ROADWAY INFORMATION

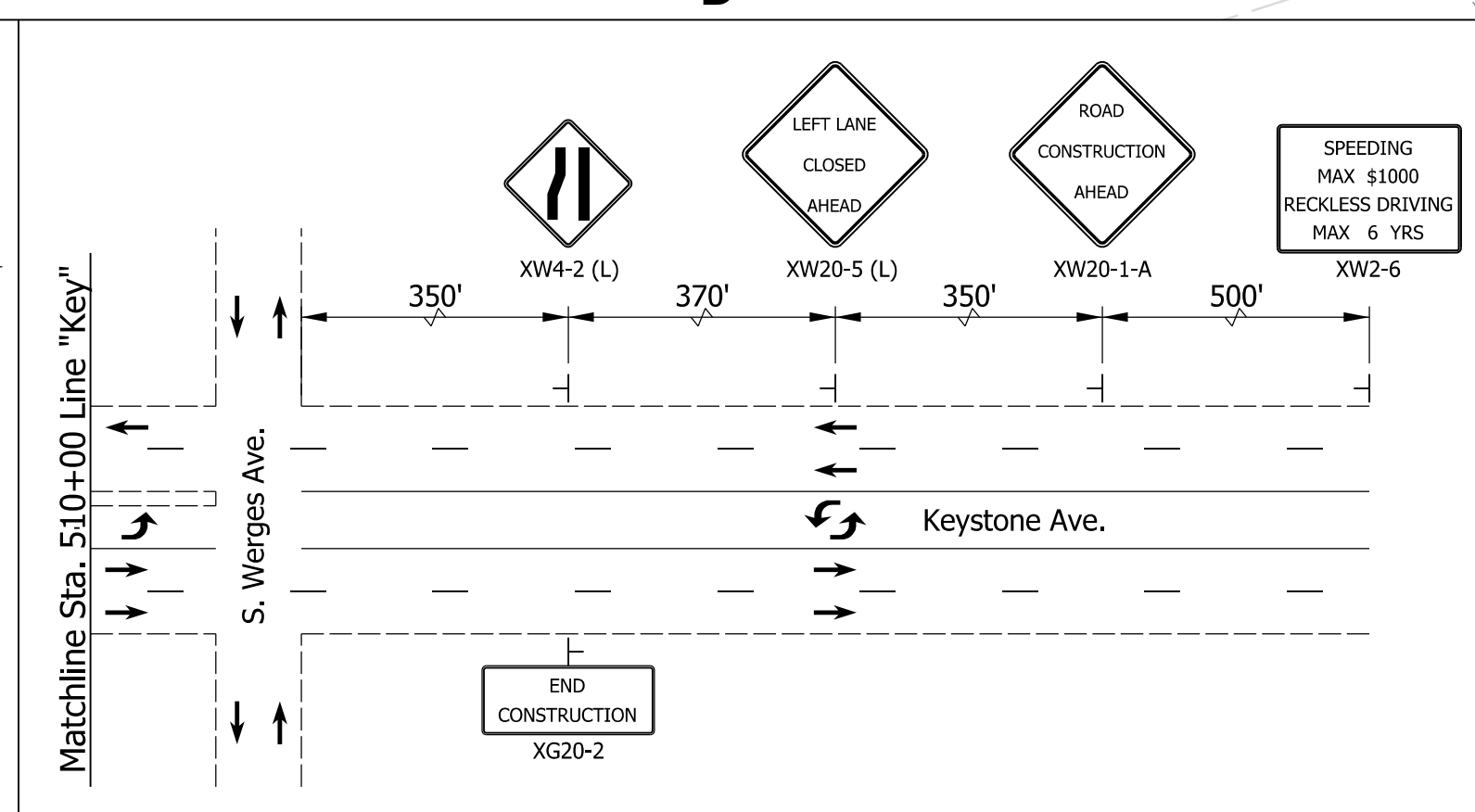
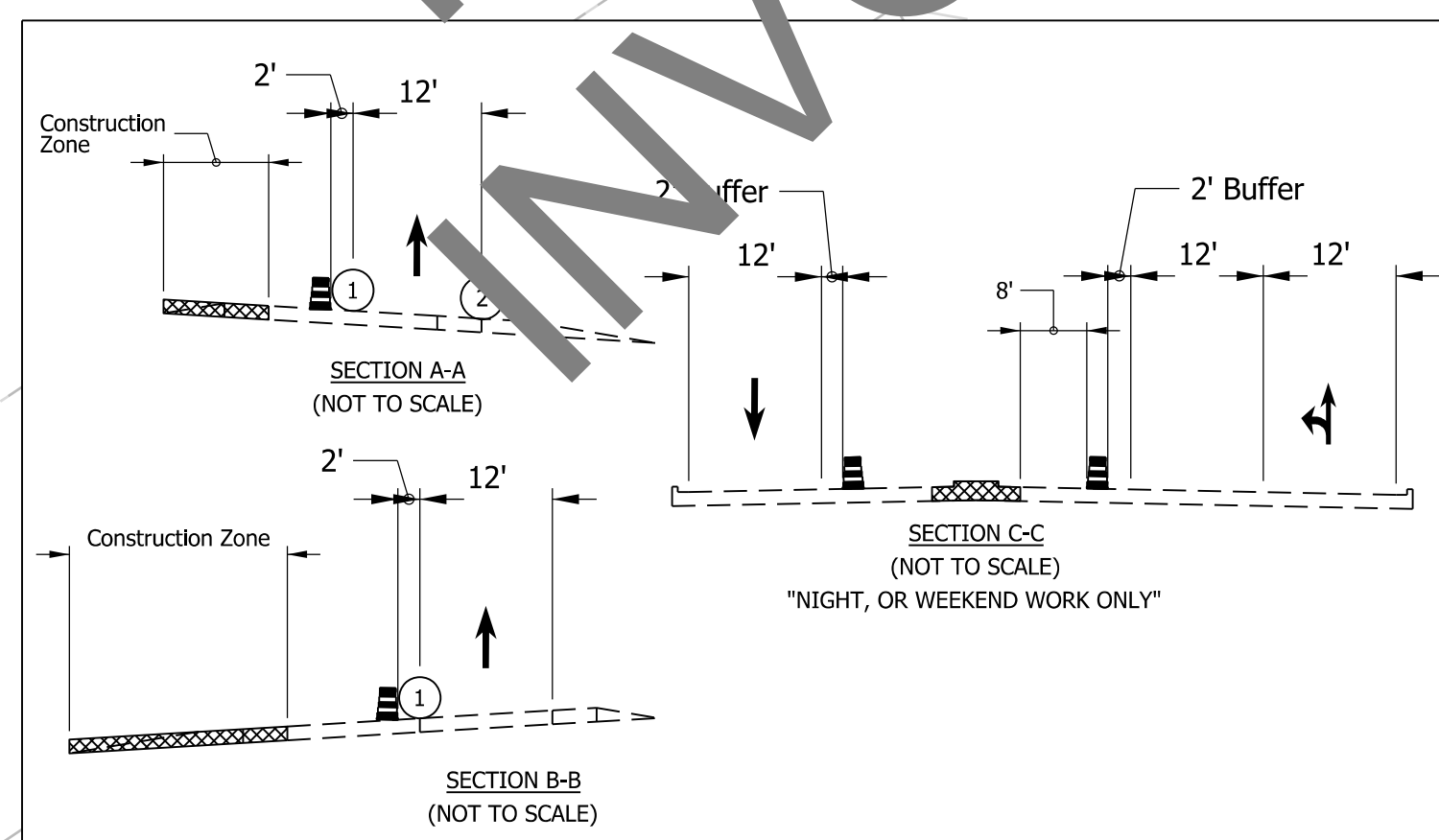
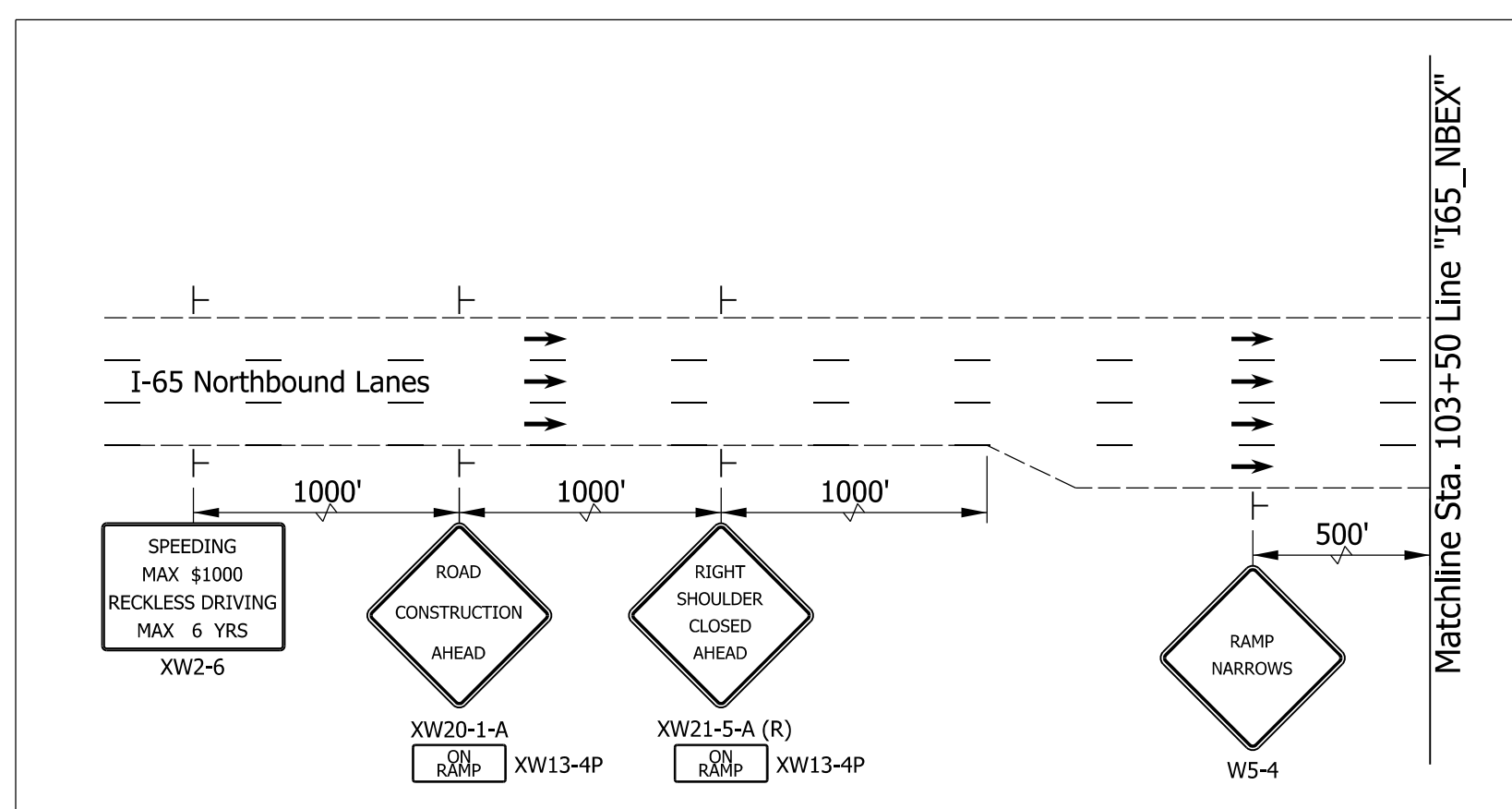
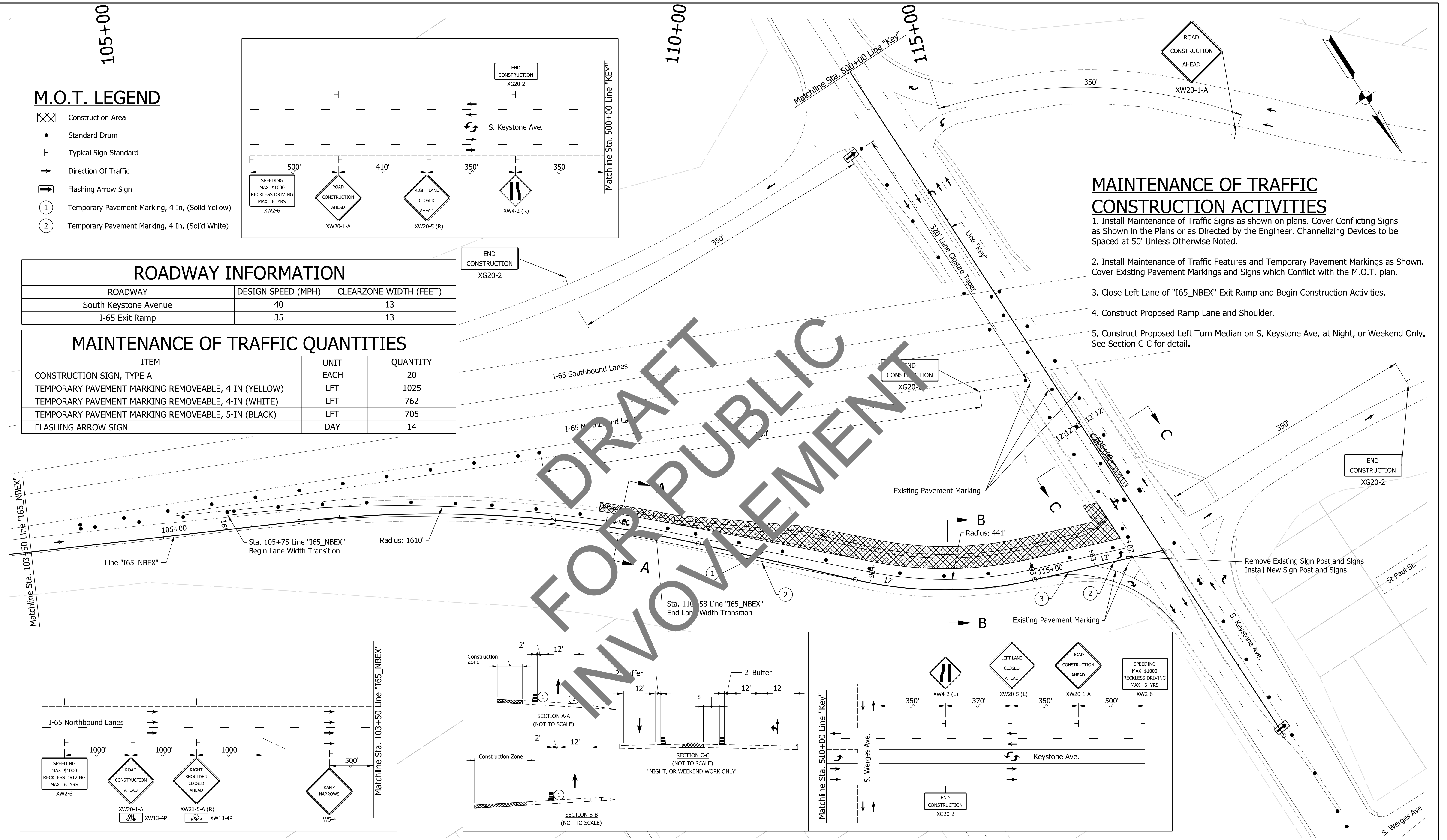
ROADWAY	DESIGN SPEED (MPH)	CLEARZONE WIDTH (FEET)
South Keystone Avenue	40	13
I-65 Exit Ramp	35	13

MAINTENANCE OF TRAFFIC QUANTITIES

ITEM	UNIT	QUANTITY
CONSTRUCTION SIGN, TYPE A	EACH	20
TEMPORARY PAVEMENT MARKING REMOVEABLE, 4-IN (YELLOW)	LFT	1025
TEMPORARY PAVEMENT MARKING REMOVEABLE, 4-IN (WHITE)	LFT	762
TEMPORARY PAVEMENT MARKING REMOVEABLE, 5-IN (BLACK)	LFT	705
FLASHING ARROW SIGN	DAY	14

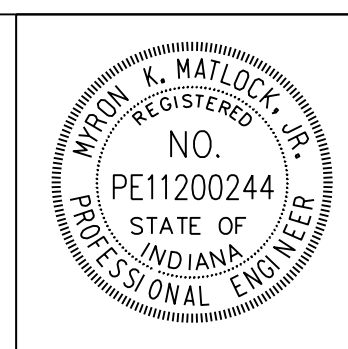
MAINTENANCE OF TRAFFIC CONSTRUCTION ACTIVITIES

1. Install Maintenance of Traffic Signs as shown on plans. Cover Conflicting Signs as Shown in the Plans or as Directed by the Engineer. Channelizing Devices to be Spaced at 50' Unless Otherwise Noted.
2. Install Maintenance of Traffic Features and Temporary Pavement Markings as Shown. Cover Existing Pavement Markings and Signs which Conflict with the M.O.T. plan.
3. Close Left Lane of "I65_NBEX" Exit Ramp and Begin Construction Activities.
4. Construct Proposed Ramp Lane and Shoulder.
5. Construct Proposed Left Turn Median on S. Keystone Ave. at Night, or Weekend Only. See Section C-C for detail.



FOR DRAFT INVOLVEMENT

3/16/2020 3:06:38 pm
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file:c:\adidib\p\lmb_bkystal\greatlakes\0222\52174068-rd-s-mot11.dgn



RECOMMENDED FOR APPROVAL: *Myron E. Wallock, Jr.* DESIGN ENGINEER DATE: 4/6/2020

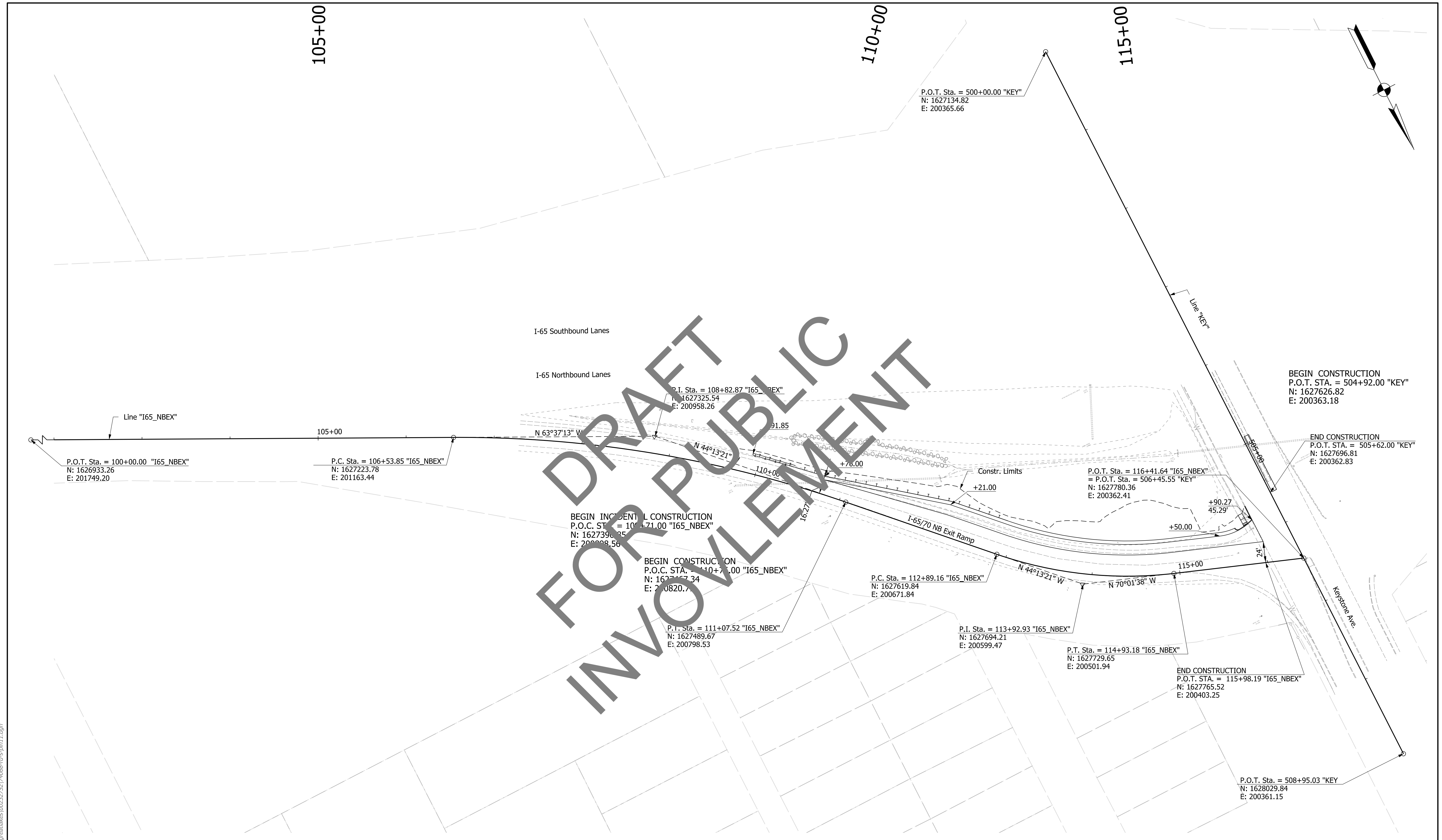
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CHECKED: MKM CHECKED: MKM

INDIANA DEPARTMENT OF TRANSPORTATION

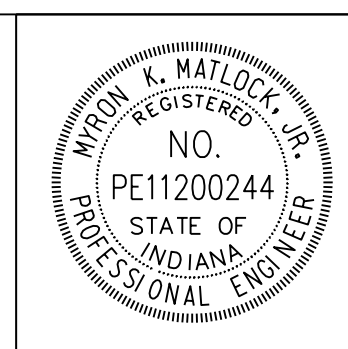
I-65 & KEYSTONE AVENUE INTERCHANGE
MAINTENANCE OF TRAFFIC
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS MOT-12
ELECTRONIC	55 of 72
CONTRACT	PROJECT
T-42856	1902693

DRAFT FOR PUBLIC COMMENT



jsburton
2/12/2020 11:04:19 am
model-Sheet1
file: c:\cadd\ib\p\hmb_jfr\stc\greatakes\0222752174068-rd-s-ph11.dgn



RECOMMENDED FOR APPROVAL *Myron E. Wallock, Jr.* 4/6/2020
DESIGN ENGINEER DATE

DESIGNED: MKM DRAWN: JSB
CHECKED: HER CHECKED: HER

INDIANA
DEPARTMENT OF TRANSPORTATION

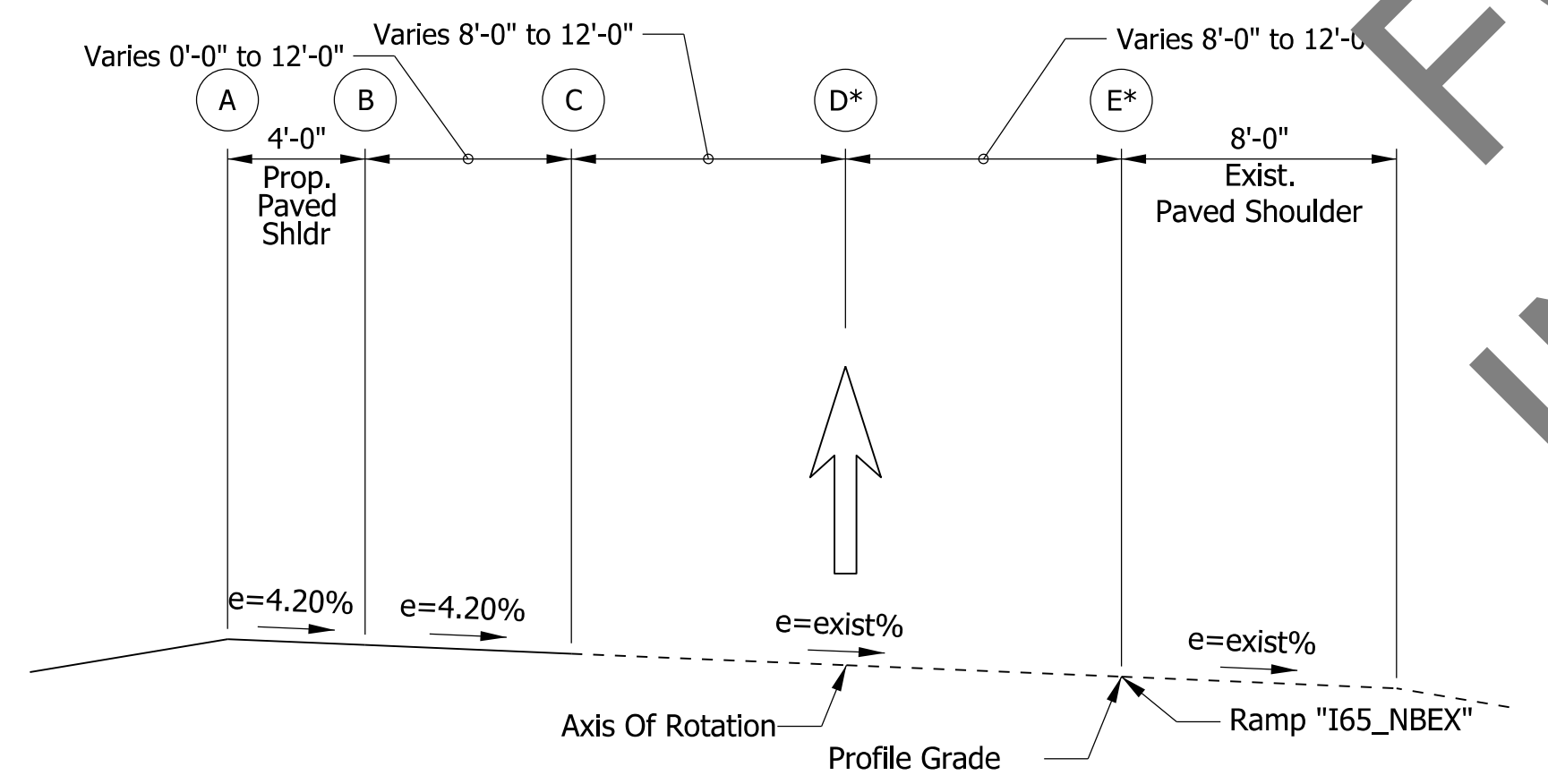
I-65 & KEYSTONE AVENUE INTERCHANGE
PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS
ELECTRONIC	57 of 72
CONTRACT	PROJECT
T-42856	1902693



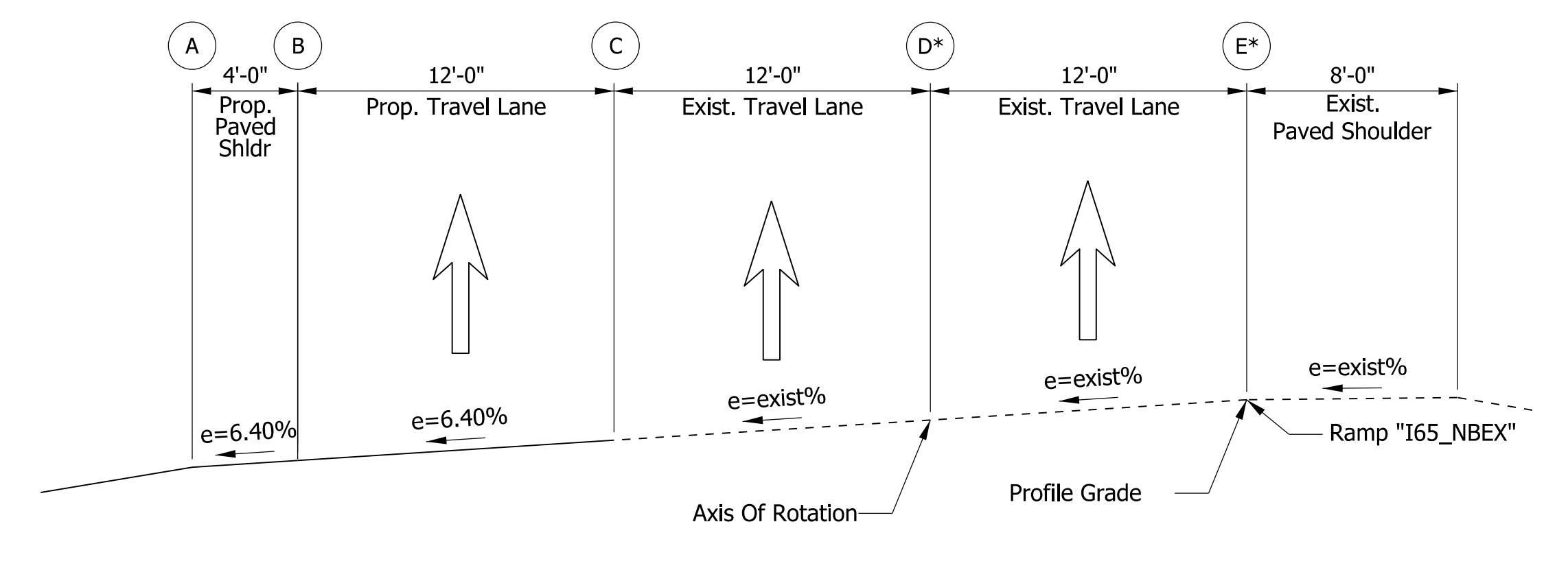
CURVE DATA
 PI = 108+82.87 "I65 NBEX"
 Delta = 19°23'52" Rt.
 R = 1340.00 ft.
 T = 229.02 ft.
 L = 453.67 ft.
 E = 19.43 ft.
 SE = 4.20%

CURVE DATA
 PI = 109+92.83 "I65 NBEX"
 Delta = 25°00' Lt.
 R = 453.00 ft.
 T = 103.77 ft.
 L = 204.02 ft.
 E = 11.73 ft.
 SE = 6.40%



RAMP NBEX TYPICAL SECTION IN SUPERELEVATION

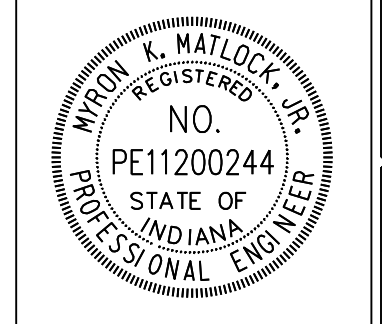
1



RAMP NBEX TYPICAL SECTION IN SUPERELEVATION

2

*Approximate Transitions Provided for Information Only. No Changes Required.



RECOMMENDED FOR APPROVAL: *M. K. M.* DESIGN ENGINEER, DATE: 02/18/2020
 DESIGNED: MKM DRAWN: JSB
 CHECKED: HER CHECKED: HER

INDIANA DEPARTMENT OF TRANSPORTATION
 I-65 & KEYSTONE AVENUE INTERCHANGE SUPERELEVATION DIAGRAM

SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEET SED-01
ELECTRONIC	58 of 72
CONTRACT	PROJECT
T-42856	1902693

kcbaylor
 2/12/2020 7:19:40 pm
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107+00

108+00

109+00

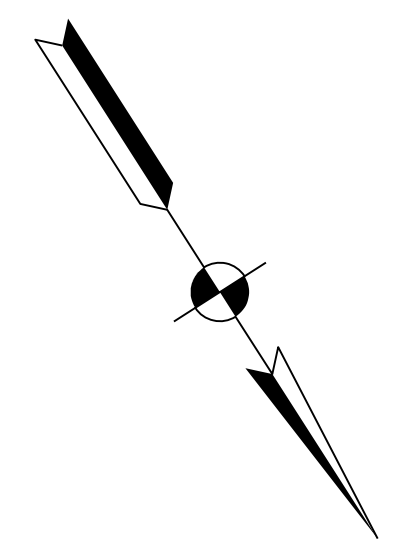
110+00

111+00

112+00

I-65 Southbound Lanes

I-65 Northbound Lanes



Line "I65_NBEX"

BEGIN INCIDENTAL CONSTRUCTION
P.O.C. Sta = 109+71.00 "I65_NBEX"
N: 1627396.85
E: 200898.56

BEGIN CONSTRUCTION
P.O.C. Sta = 110+76.00 "I65_NBEX"
N: 1627417.34
E: 200900.77

DRAFT FOR PUBLIC INVOLVEMENT

Guardrail and Treatment
Type "S" 3' long'd.

+0.80
+1.15'

+1.05
20.27'

(30)

(A)

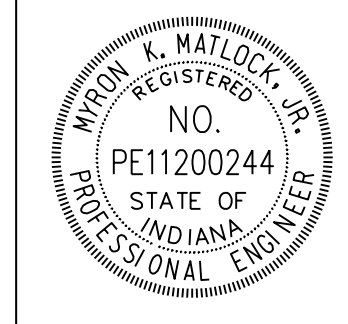
(S)

Line "I65_NBEX"

Matchline Sta. 112+00 (See Next Sheet)

Legend

- (A) 14.0" PCCP with D-1 Contraction Joint with a maximum spacing of 20' (match existing adjacent joints) with 1.5" dowels
Dense Grade Subbase:
6 in. Compacted Aggregate, No. 53, on Subgrade Treatment, Type 1D
- (N) Compacted Aggregate, No. 53
- (S) Sawcut (No Direct Pay)
- (U) 6 In. Underdrain
- (22) Concrete Center Curb, Type C
- (26) Seed Mixture, U
- (30) Guardrail MGS W-Beam



RECOMMENDED FOR APPROVAL *Myron E. Waddock, Jr.* 4/6/2020
DESIGN ENGINEER DATE

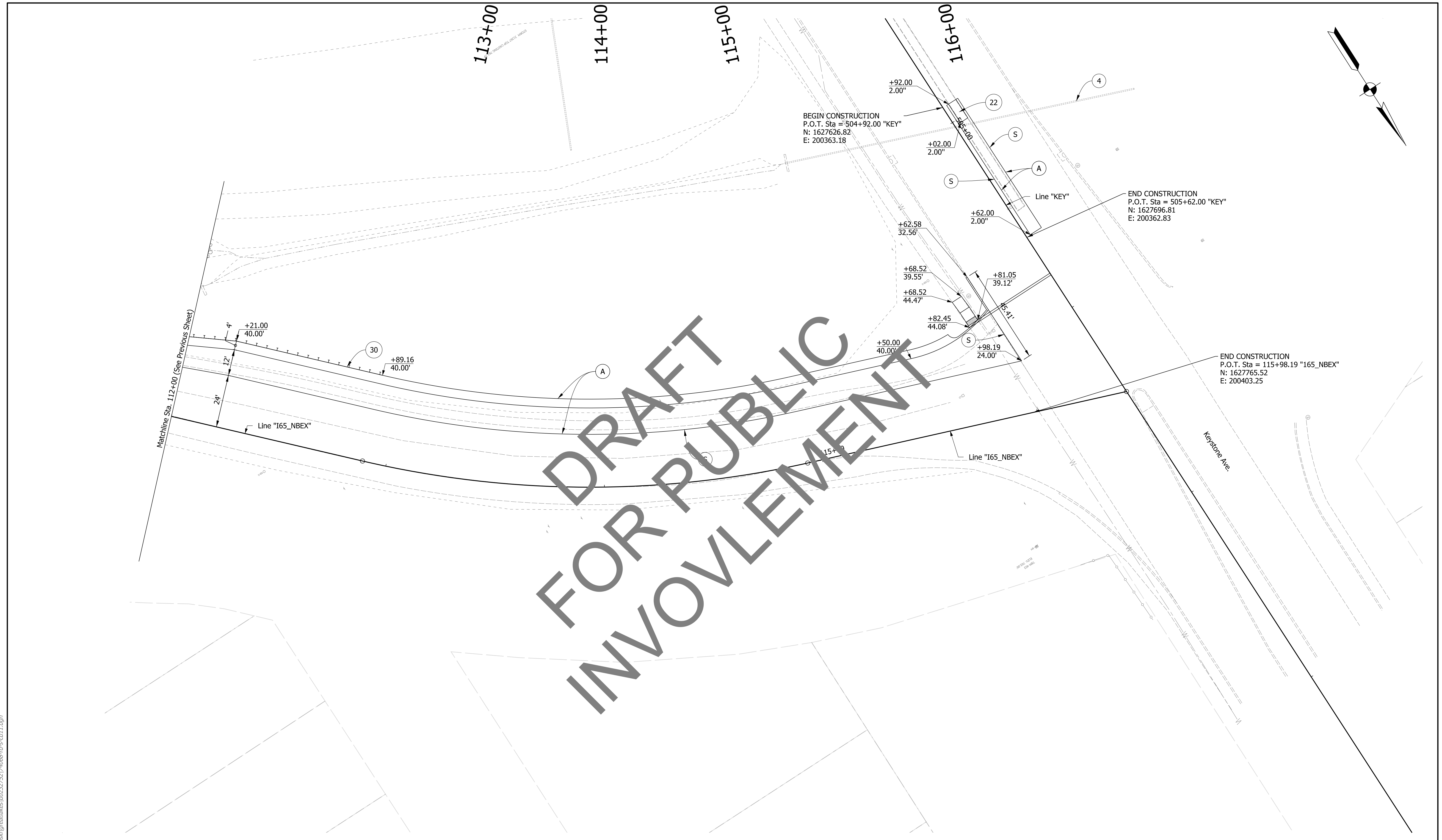
DESIGNED: MKM DRAWN: JSB
CHECKED: HER CHECKED: HER

INDIANA DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS CD-05
ELECTRONIC	59 of 72
CONTRACT	PROJECT
T-42856	1902693

jsburton 2/12/2020 10:04:19 am model:Sheet1 file:c:\cadd\ib\p\hmb_jshemanski\greatakes\0222752\74068-rd-s-cd1.dgn

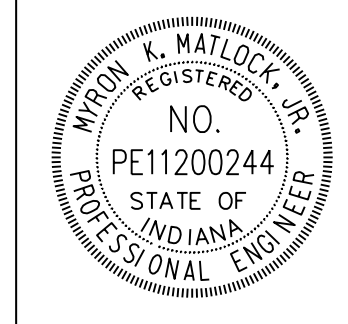


DRAFT FOR PUBLIC INVOLVEMENT

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Legend

- (A) 14.0" PCCP with D-1 Contraction Joint with a maximum spacing of 20' (match existing adjacent joints) with 1.5" dowels
Dense Grade Subbase:
6 in. Compacted Aggregate, No. 53, on Subgrade Treatment, Type 1D
- (N) Compacted Aggregate, No. 53
- (S) Sawcut (No Direct Pay)
- (U) 6 In. Underdrain
- (22) Concrete Center Curb, Type C
- (26) Seed Mixture, U
- (30) Guardrail MGS W-Beam



RECOMMENDED FOR APPROVAL	4/6/2020 DATE
<i>Myron E. Watlock, Jr.</i> DESIGN ENGINEER	
DESIGNED: MKM	DRAWN: JSB
CHECKED: HER	CHECKED: HER

INDIANA DEPARTMENT OF TRANSPORTATION

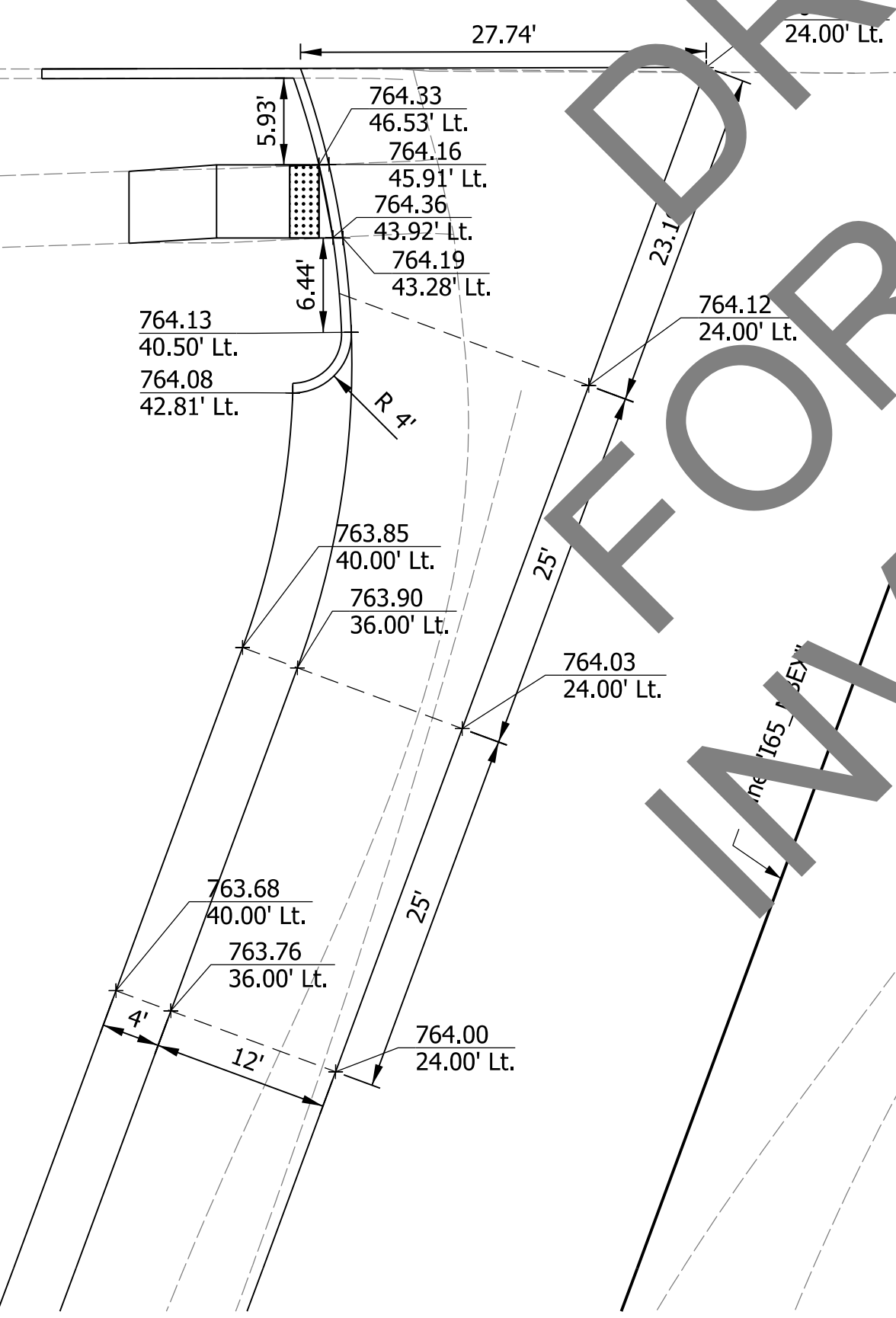
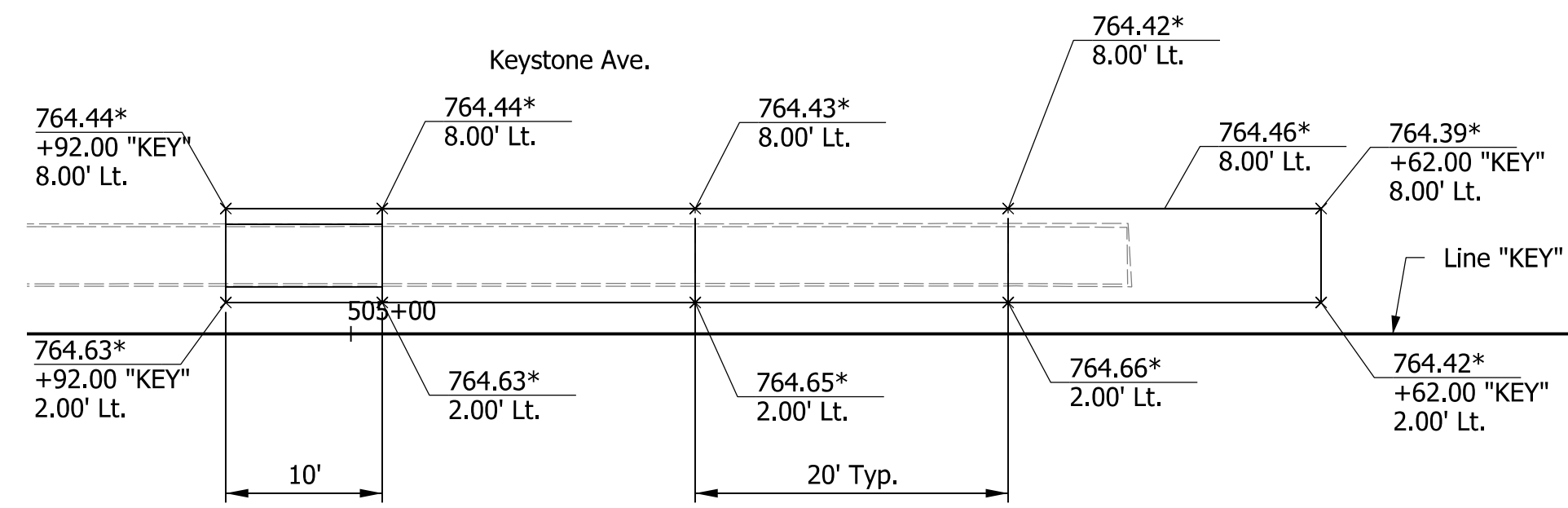
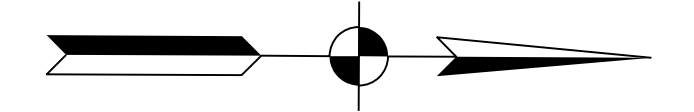
I-65 & KEYSTONE AVENUE INTERCHANGE CONSTRUCTION DETAILS

HORIZONTAL SCALE 1"=20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 2001152
SURVEY BOOK ELECTRONIC	SHEETS 60 of 72
CONTRACT T-42856	PROJECT 1902693

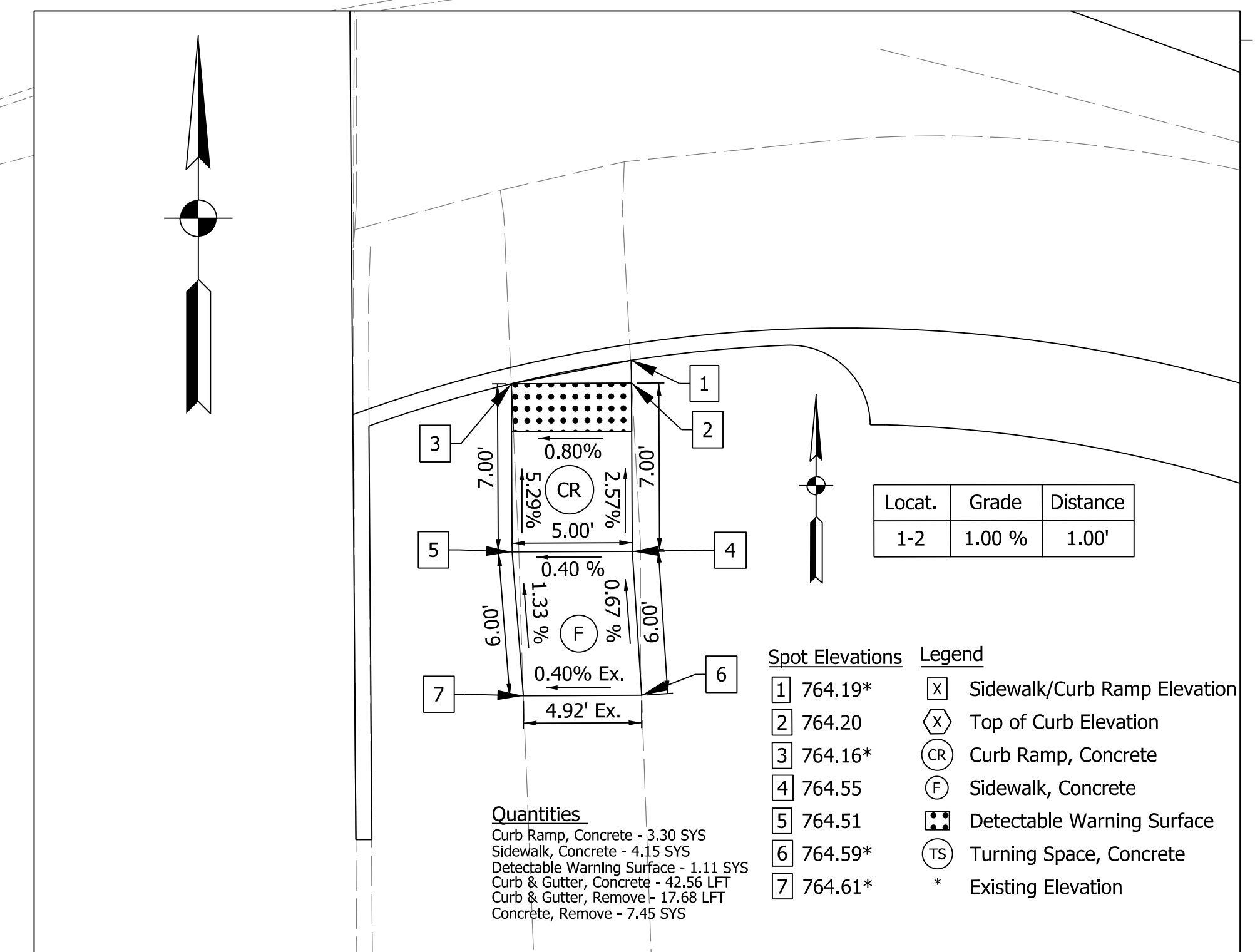
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506+00

507+00

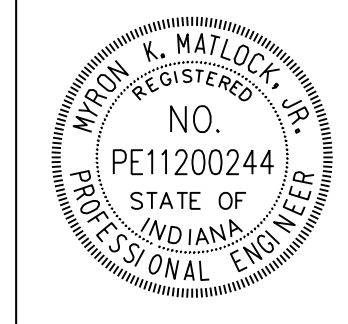


FOR DRAFT INVOLVEMENT



*Measured from Line "KEY." Match Existing Elevations.

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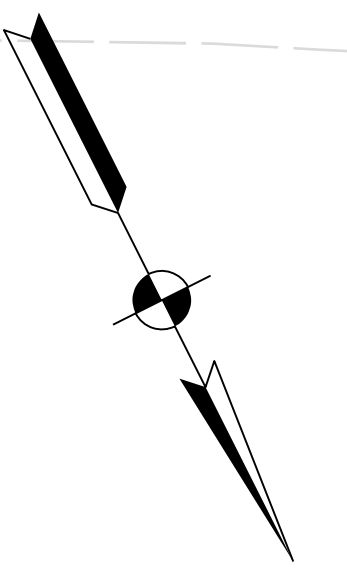
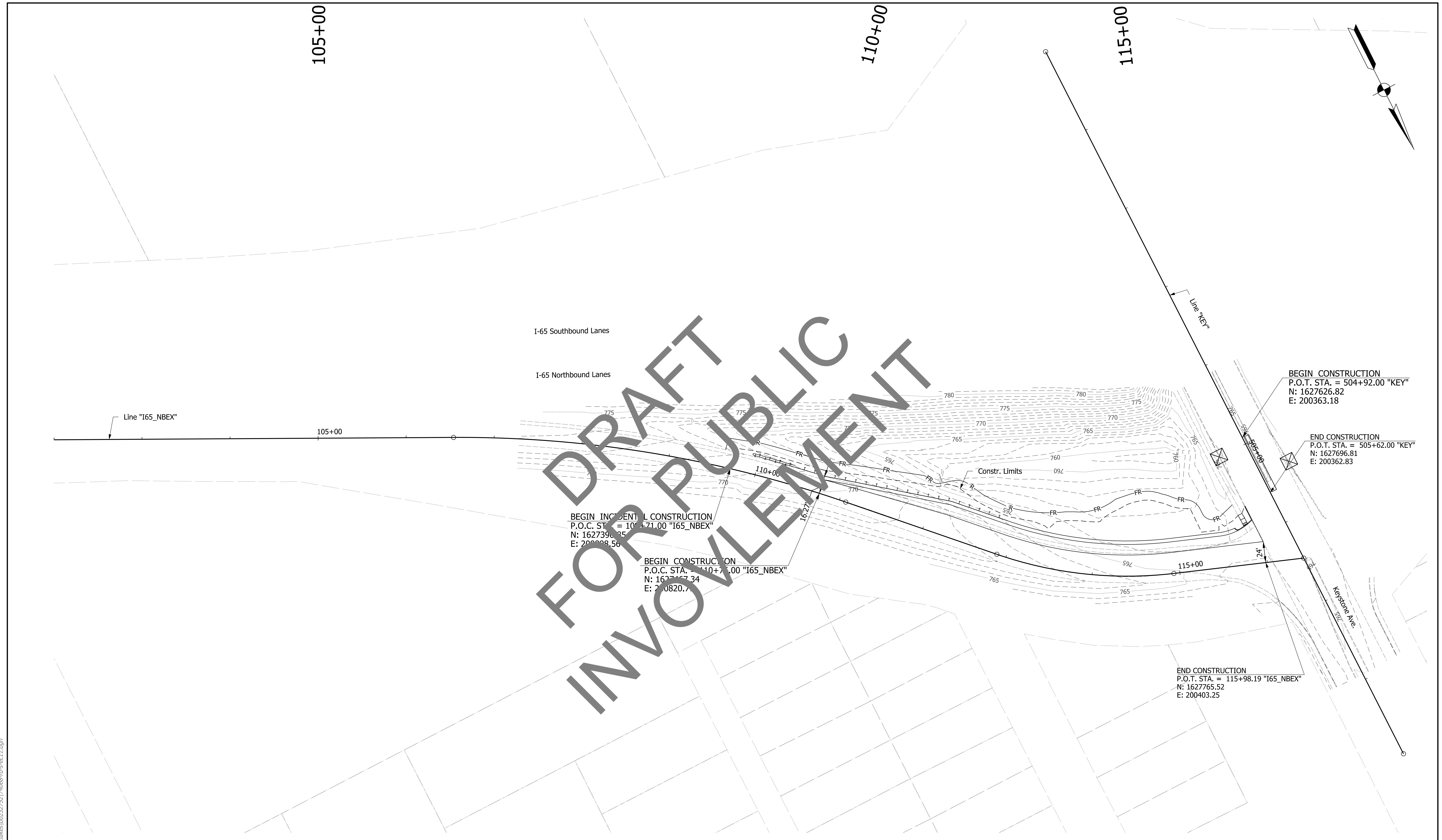
RECOMMENDED FOR APPROVAL *Myron E. Wallock, Jr.* 4/6/2020
DESIGN ENGINEER DATE

DESIGNED: MKM DRAWN: JSB
CHECKED: HER CHECKED: HER

INDIANA DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE
SPOT ELEVATION DETAIL/
CURB RAMP DETAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS ID-05
ELECTRONIC	61 of 72
CONTRACT	PROJECT
T-42856	1902693



FOR DRAFT INVOLVEMENT

BEGIN INCIDENTAL CONSTRUCTION
 P.O.C. STA. = 104+71.00 "I65_NBEX"
 N: 1627396.35
 E: 200308.56

BEGIN CONSTRUCTION
 P.O.C. STA. = 110+71.00 "I65_NBEX"
 N: 1627167.34
 E: 200820.71

BEGIN CONSTRUCTION
 P.O.T. STA. = 504+92.00 "KEY"
 N: 1627626.82
 E: 200363.18

END CONSTRUCTION
 P.O.T. STA. = 505+62.00 "KEY"
 N: 1627696.81
 E: 200362.83

END CONSTRUCTION
 P.O.T. STA. = 115+98.19 "I65_NBEX"
 N: 1627765.52
 E: 200403.25

EROSION CONTROL LEGEND

- FR — Fiber Roll
- ☒ Inlet Protection



RECOMMENDED FOR APPROVAL		<i>Myron E. Wallock, Jr.</i>		4/6/2020 DATE	
DESIGNED: MCS		DRAWN: JSB			
CHECKED: HER		CHECKED: HER			

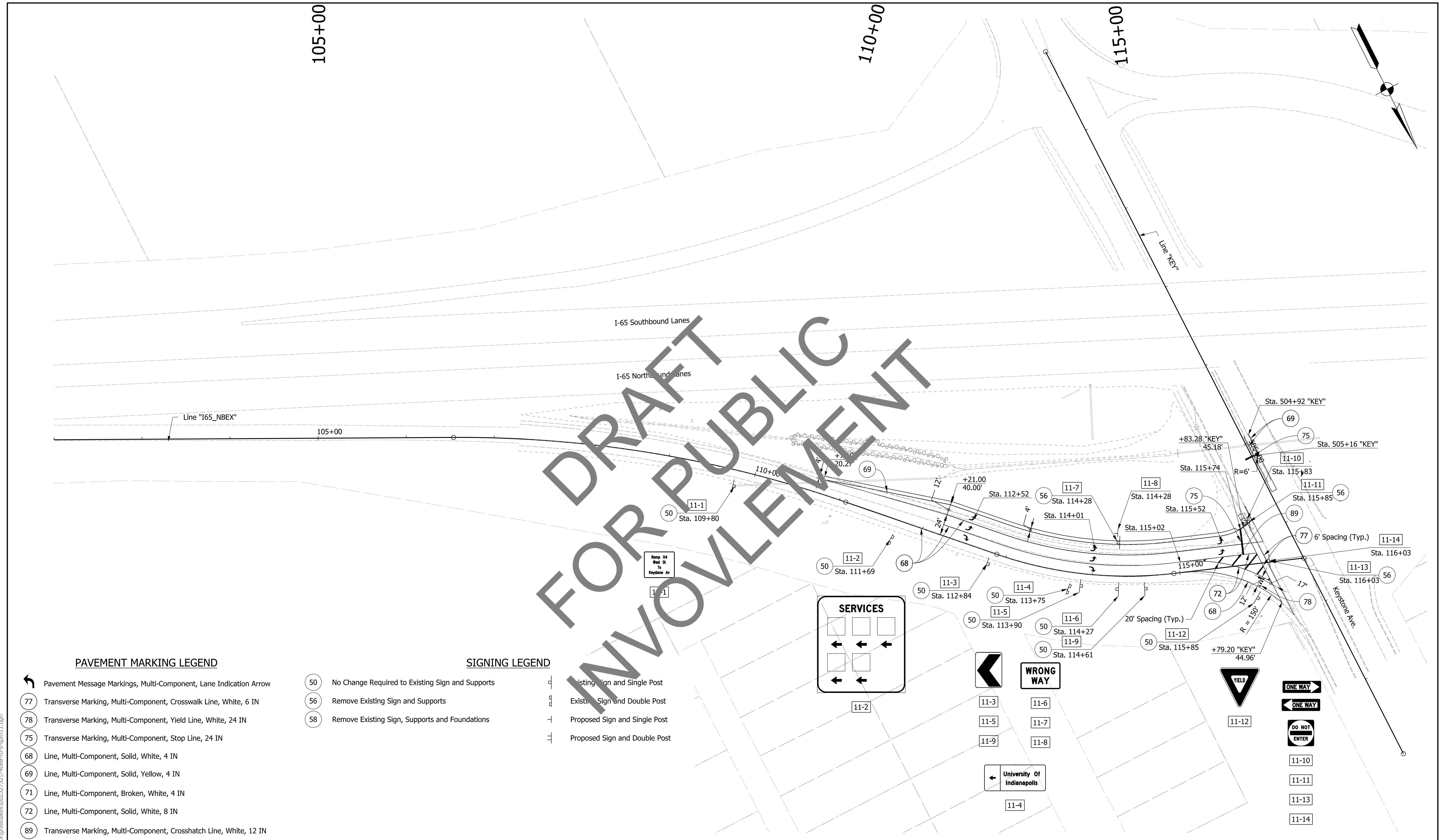
**INDIANA
DEPARTMENT OF TRANSPORTATION**

**I-65 & KEYSTONE AVENUE INTERCHANGE
EROSION CONTROL DETAIL**

HORIZONTAL SCALE	BRIDGE FILE	
1"=5'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	SESC-01
ELECTRONIC	62 of	72
CONTRACT	PROJECT	
T-42856	1902693	

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 model-sheet1
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DRAFT FOR PUBLIC INVOLVEMENT



PAVEMENT MARKING LEGEND

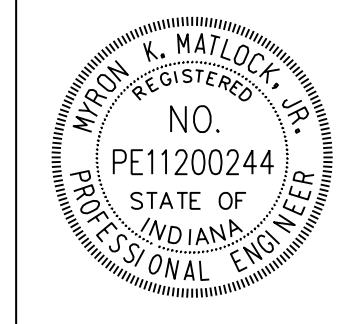
- Pavement Message Markings, Multi-Component, Lane Indication Arrow
- Transverse Marking, Multi-Component, Crosswalk Line, White, 6 IN
- Transverse Marking, Multi-Component, Yield Line, White, 24 IN
- Transverse Marking, Multi-Component, Stop Line, 24 IN
- Line, Multi-Component, Solid, White, 4 IN
- Line, Multi-Component, Solid, Yellow, 4 IN
- Line, Multi-Component, Broken, White, 4 IN
- Line, Multi-Component, Solid, White, 8 IN
- Transverse Marking, Multi-Component, Crosshatch Line, White, 12 IN

SIGNING LEGEND

- No Change Required to Existing Sign and Supports
- Remove Existing Sign and Supports
- Remove Existing Sign, Supports and Foundations
- Existing Sign and Single Post
- Existing Sign and Double Post
- Proposed Sign and Single Post
- Proposed Sign and Double Post

NOTES:

1. Pavement Marking Arrows and Messages Measured from the Center to the Word or Symbol.
2. Remove existing marking in conflict with proposed markings.



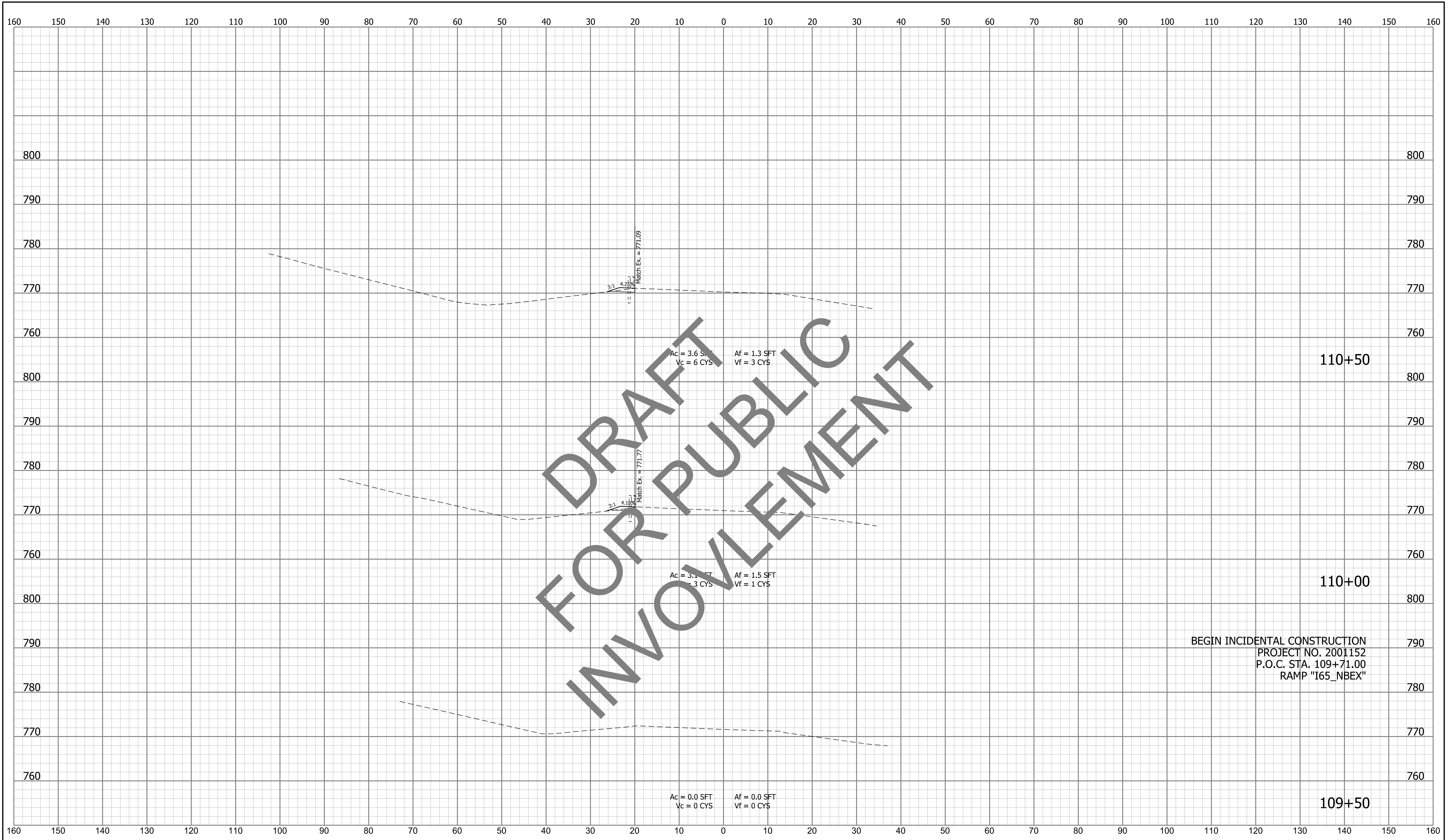
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DESIGNED: MKM	DRAWN: JSB	
CHECKED: HER	CHECKED: HER	

INDIANA DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE SIGNING AND PAVEMENT MARKING PLAN

HORIZONTAL SCALE	BRIDGE FILE	
1"=50'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	SPM-10
ELECTRONIC	63 of 72	
CONTRACT	PROJECT	
T-42856	1902693	

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BEGIN INCIDENTAL CONSTRUCTION
 PROJECT NO. 2001152
 P.O.C. STA. 109+71.00
 RAMP "I65_NBEX"

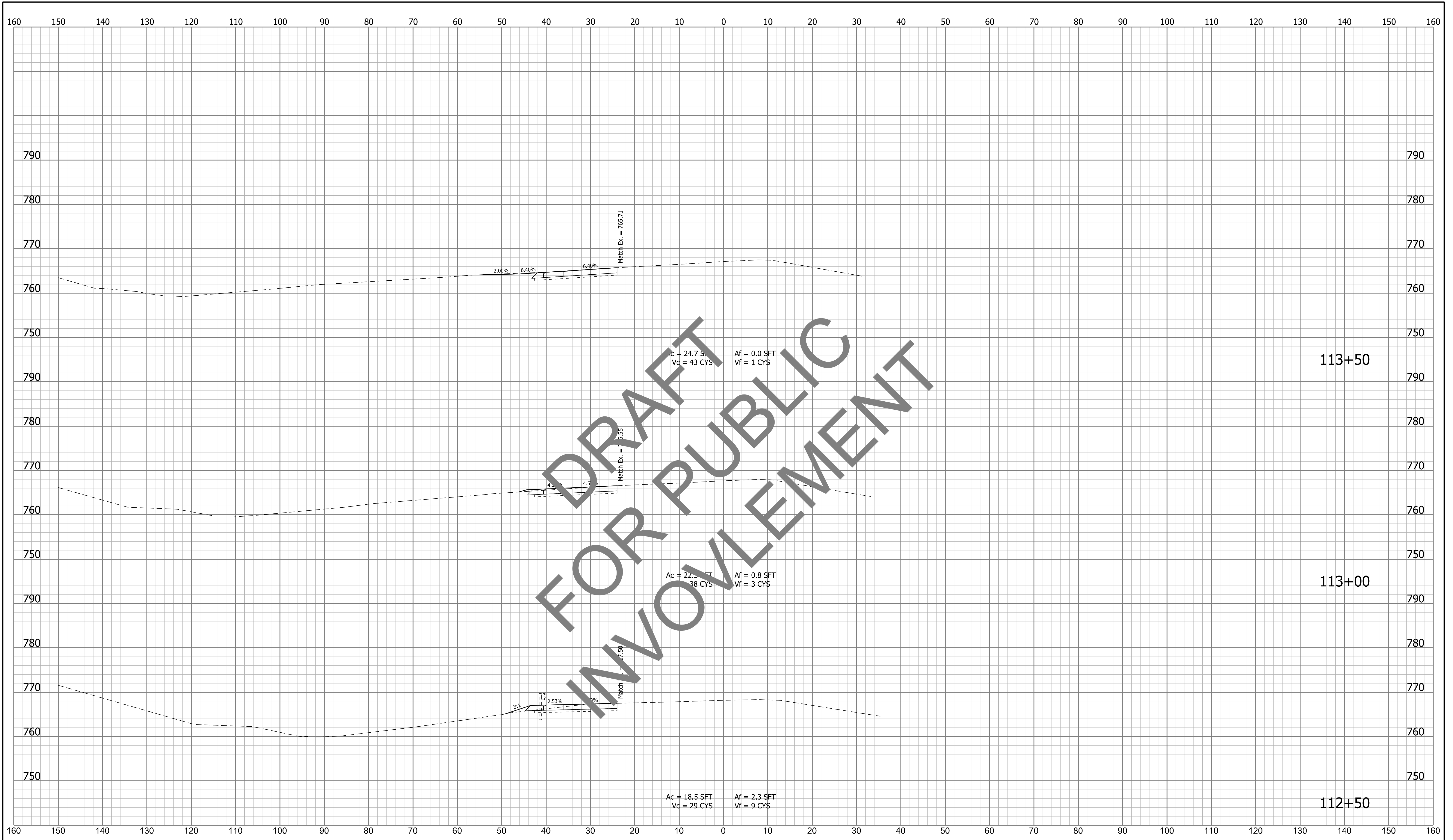
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ MCS _____	DRAWN: _____ JSB _____	
CHECKED: _____ HER _____	CHECKED: _____ HER _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE
CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
1"=10'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	XS-01
ELECTRONIC	65 of 72	
CONTRACT	PROJECT	
T-42856	1902693	



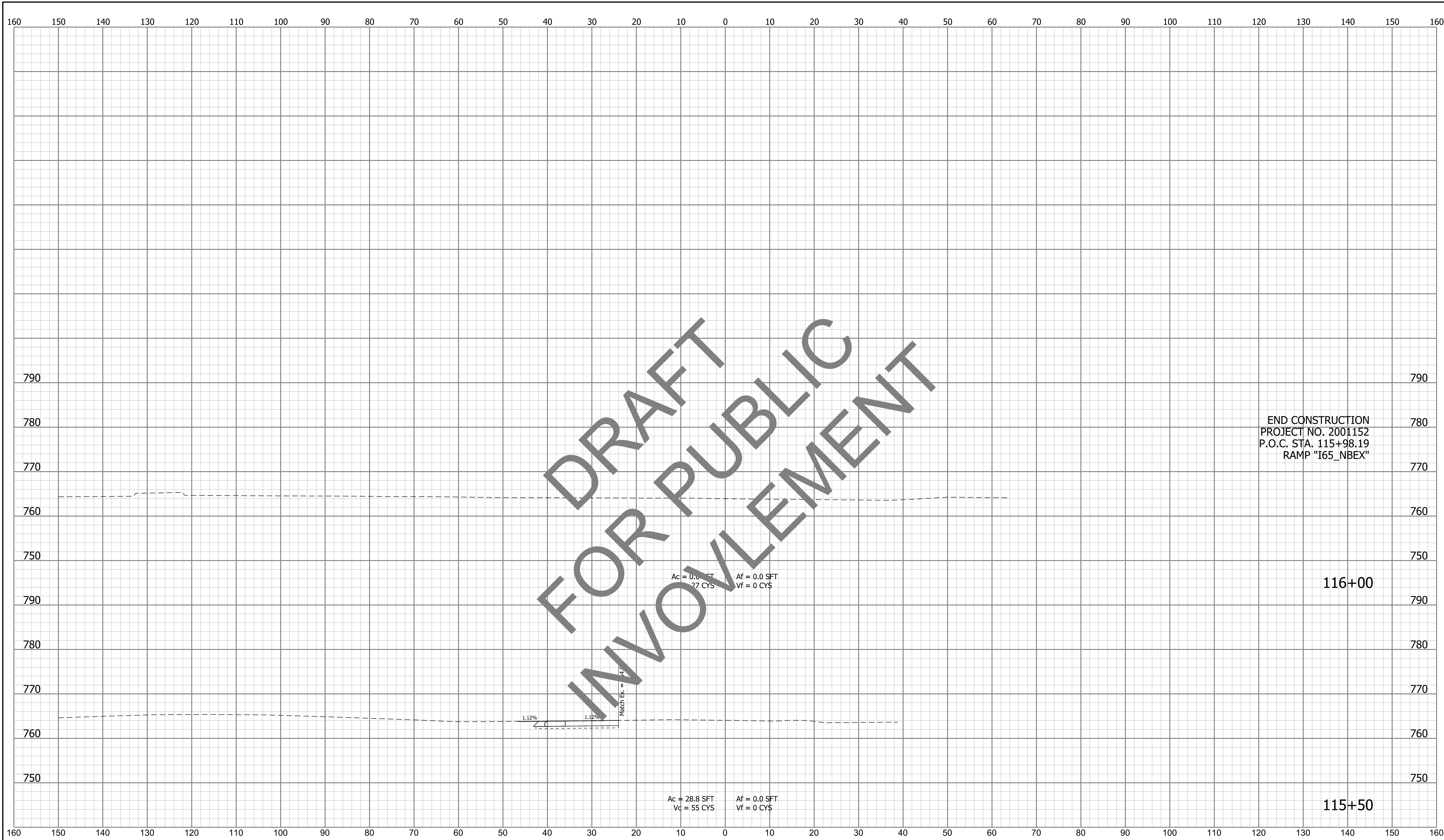
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____	MCS _____	DRAWN: _____
JSB _____		
CHECKED: _____	HER _____	CHECKED: _____
		HER _____

INDIANA
DEPARTMENT OF TRANSPORTATION

I-65 & KEYSTONE AVENUE INTERCHANGE
CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
1"=10'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2001152	
SURVEY BOOK	SHEETS	XS-03
ELECTRONIC	67 of	72
CONTRACT	PROJECT	
T-42856	1902693	



END CONSTRUCTION
 PROJECT NO. 2001152
 P.O.C. STA. 115+98.19
 RAMP "I65_NBEX"

116+00

115+50

FOR DRAFT
FOR PUBLIC
INVOLVEMENT

Ac = 0.0 SFT
Vc = 0 CYS
Af = 0.0 SFT
Vf = 0 CYS

Ac = 28.8 SFT
Vc = 55 CYS
Af = 0.0 SFT
Vf = 0 CYS

1.12% 1.18%

jsburton
1/1/0001 12:00:00 am
model-Sheet5
file: c:\addd\ib\p\hmb_jfrstet\greatlakes\0222752\74068-rd-s-xst1.dgn

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ MCS _____	DRAWN: _____ JSB _____	
CHECKED: _____ HER _____	CHECKED: _____ HER _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

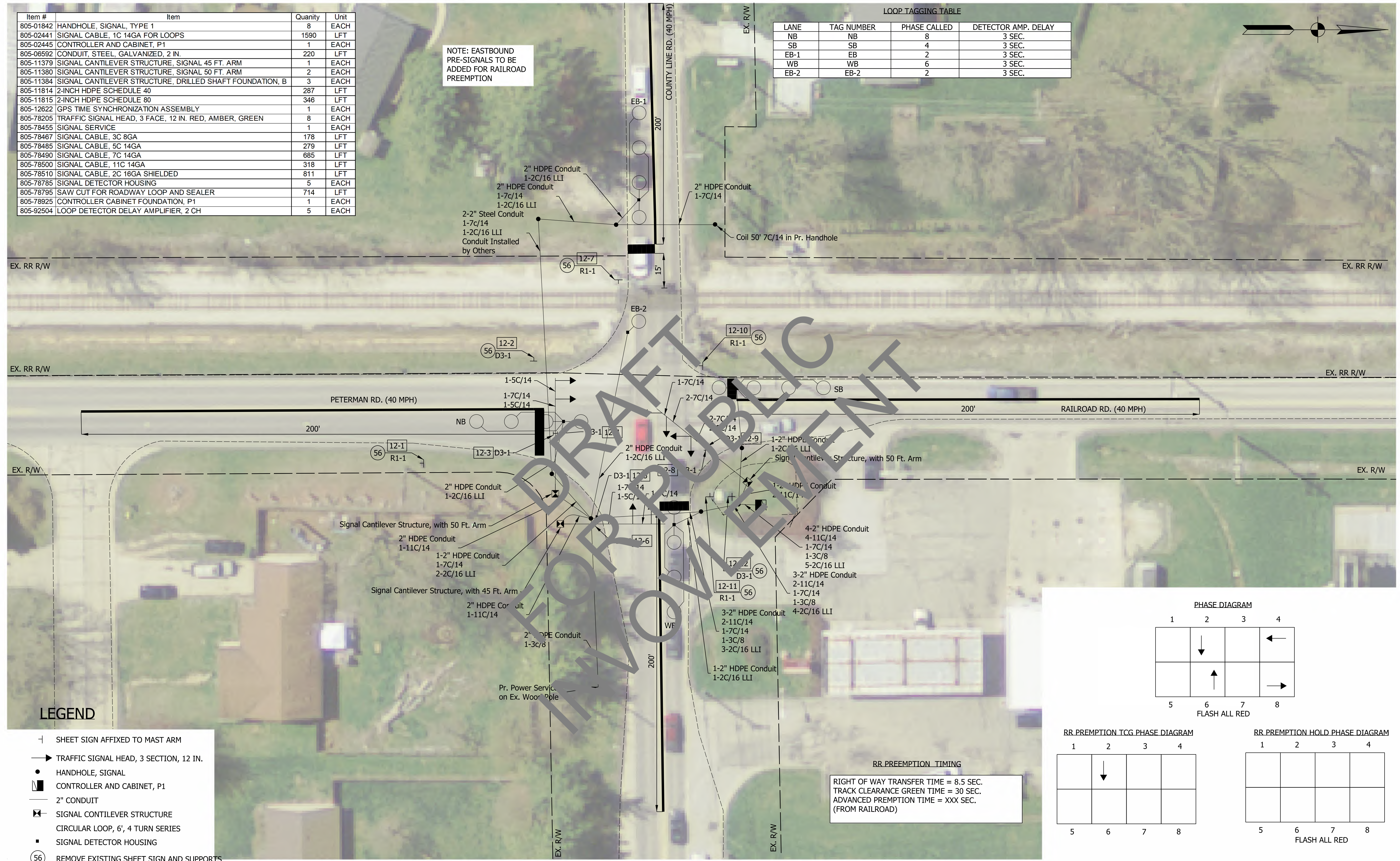
**I-65 & KEYSTONE AVENUE INTERCHANGE
CROSS SECTIONS**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2001152
SURVEY BOOK	SHEETS XS-05
ELECTRONIC	69 of 72
CONTRACT	PROJECT
T-42856	1902693

Item #	Item	Quantity	Unit
805-01842	HANDHOLE, SIGNAL, TYPE 1	8	EACH
805-02441	SIGNAL CABLE, 1C 14GA FOR LOOPS	1590	LFT
805-02445	CONTROLLER AND CABINET, P1	1	EACH
805-06592	CONDUIT, STEEL, GALVANIZED, 2 IN.	220	LFT
805-11379	SIGNAL CANTILEVER STRUCTURE, SIGNAL 45 FT. ARM	1	EACH
805-11380	SIGNAL CANTILEVER STRUCTURE, SIGNAL 50 FT. ARM	2	EACH
805-11384	SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, B	3	EACH
805-11814	2-INCH HDPE SCHEDULE 40	287	LFT
805-11815	2-INCH HDPE SCHEDULE 80	346	LFT
805-12622	GPS TIME SYNCHRONIZATION ASSEMBLY	1	EACH
805-78205	TRAFFIC SIGNAL HEAD, 3 FACE, 12 IN. RED, AMBER, GREEN	8	EACH
805-78455	SIGNAL SERVICE	1	EACH
805-78467	SIGNAL CABLE, 3C 8GA	178	LFT
805-78485	SIGNAL CABLE, 5C 14GA	279	LFT
805-78490	SIGNAL CABLE, 7C 14GA	685	LFT
805-78500	SIGNAL CABLE, 11C 14GA	318	LFT
805-78510	SIGNAL CABLE, 2C 16GA SHIELDED	811	LFT
805-78785	SIGNAL DETECTOR HOUSING	5	EACH
805-78795	SAW CUT FOR ROADWAY LOOP AND SEALER	714	LFT
805-78925	CONTROLLER CABINET FOUNDATION, P1	1	EACH
805-92504	LOOP DETECTOR DELAY AMPLIFIER, 2 CH	5	EACH

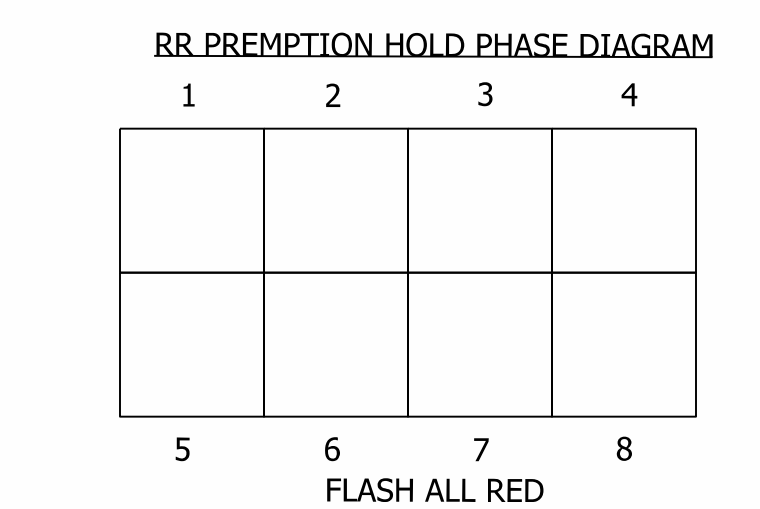
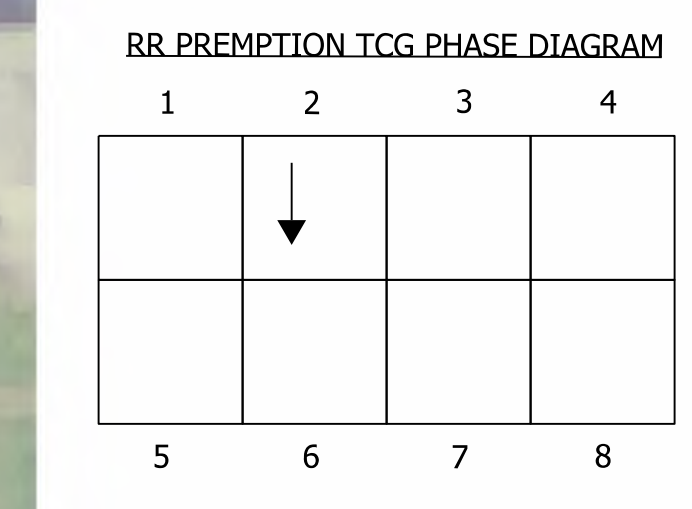
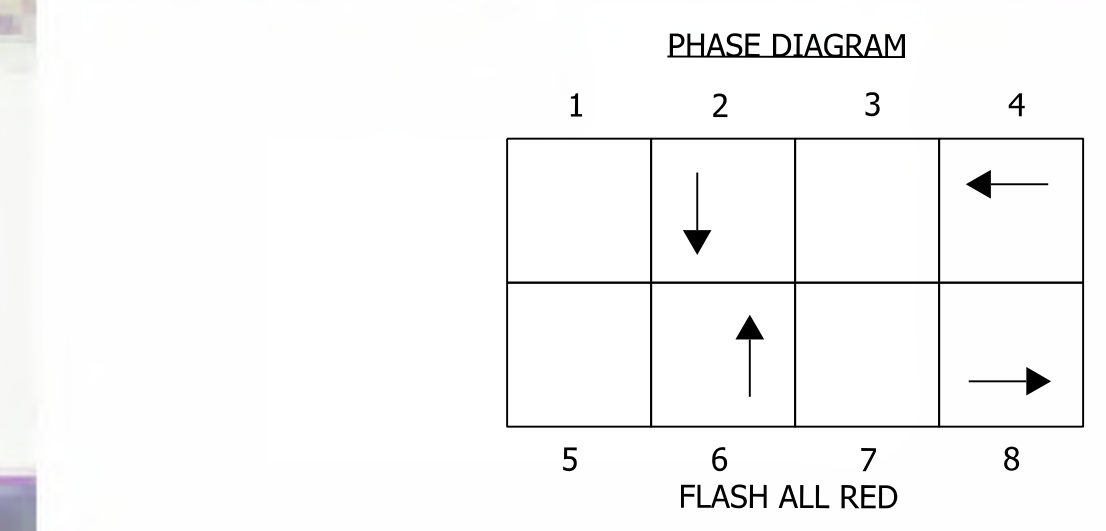
NOTE: EASTBOUND PRE-SIGNALS TO BE ADDED FOR RAILROAD PREEMPTION

LANE	TAG NUMBER	PHASE CALLED	DETECTOR AMP. DELAY
NB	NB	8	3 SEC.
SB	SB	4	3 SEC.
EB-1	EB	2	3 SEC.
WB	WB	6	3 SEC.
EB-2	EB-2	2	3 SEC.



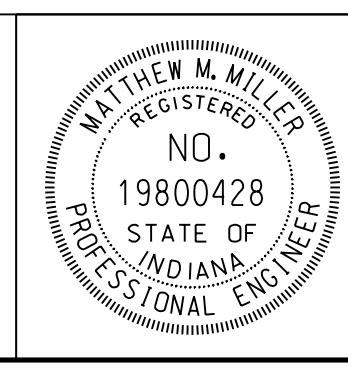
LEGEND

- ⊥ SHEET SIGN AFFIXED TO MAST ARM
- TRAFFIC SIGNAL HEAD, 3 SECTION, 12 IN.
- HANDHOLE, SIGNAL
- ▭ CONTROLLER AND CABINET, P1
- 2" CONDUIT
- ⊠ SIGNAL CANTILEVER STRUCTURE
- CIRCULAR LOOP, 6', 4 TURN SERIES
- SIGNAL DETECTOR HOUSING
- 56 REMOVE EXISTING SHEET SIGN AND SUPPORTS



RR PREEMPTION TIMING
 RIGHT OF WAY TRANSFER TIME = 8.5 SEC.
 TRACK CLEARANCE GREEN TIME = 30 SEC.
 ADVANCED PREEMPTION TIME = XXX SEC.
 (FROM RAILROAD)

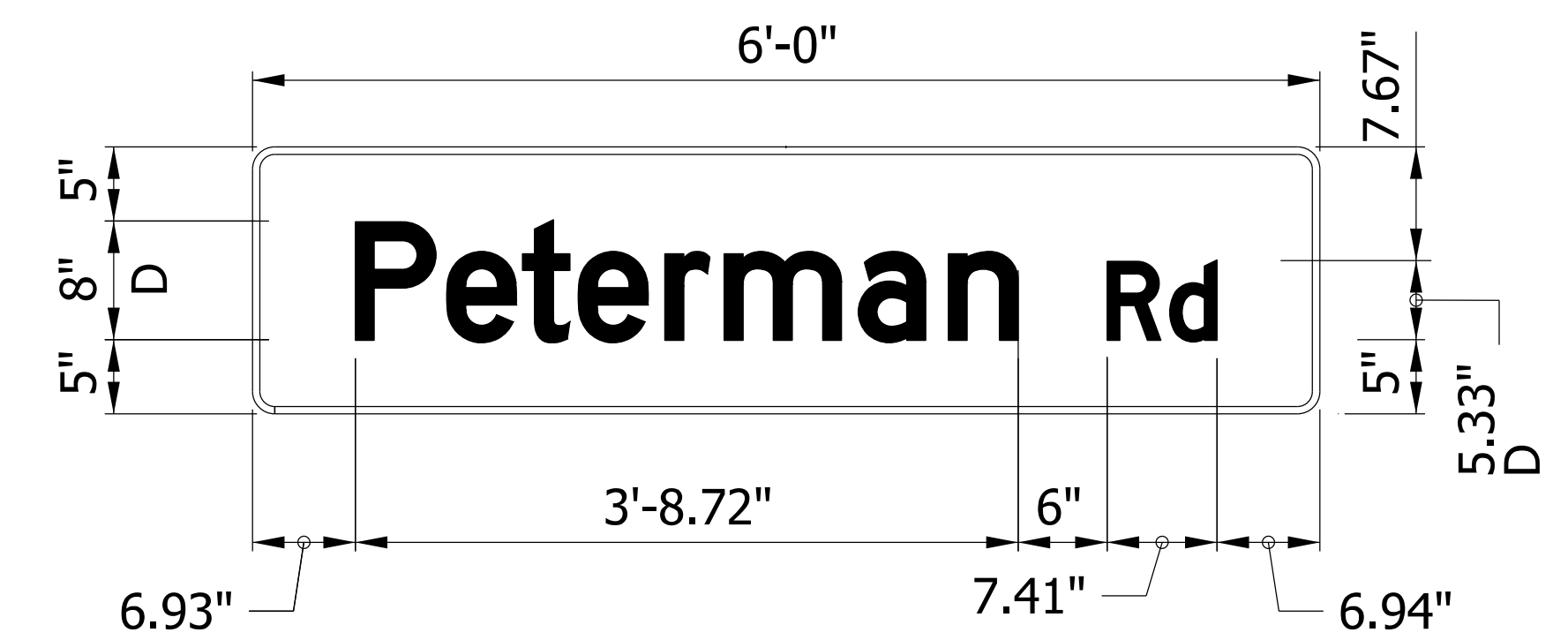
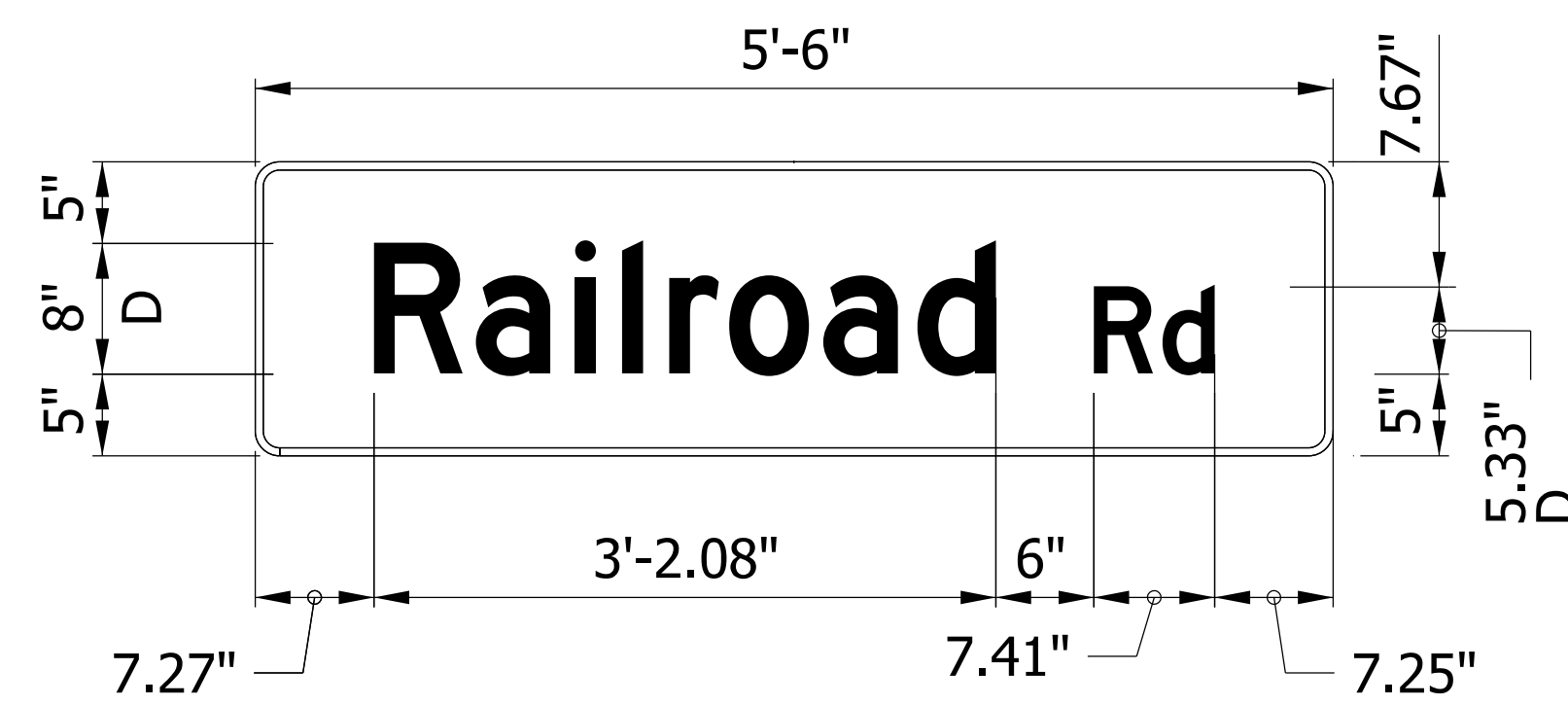
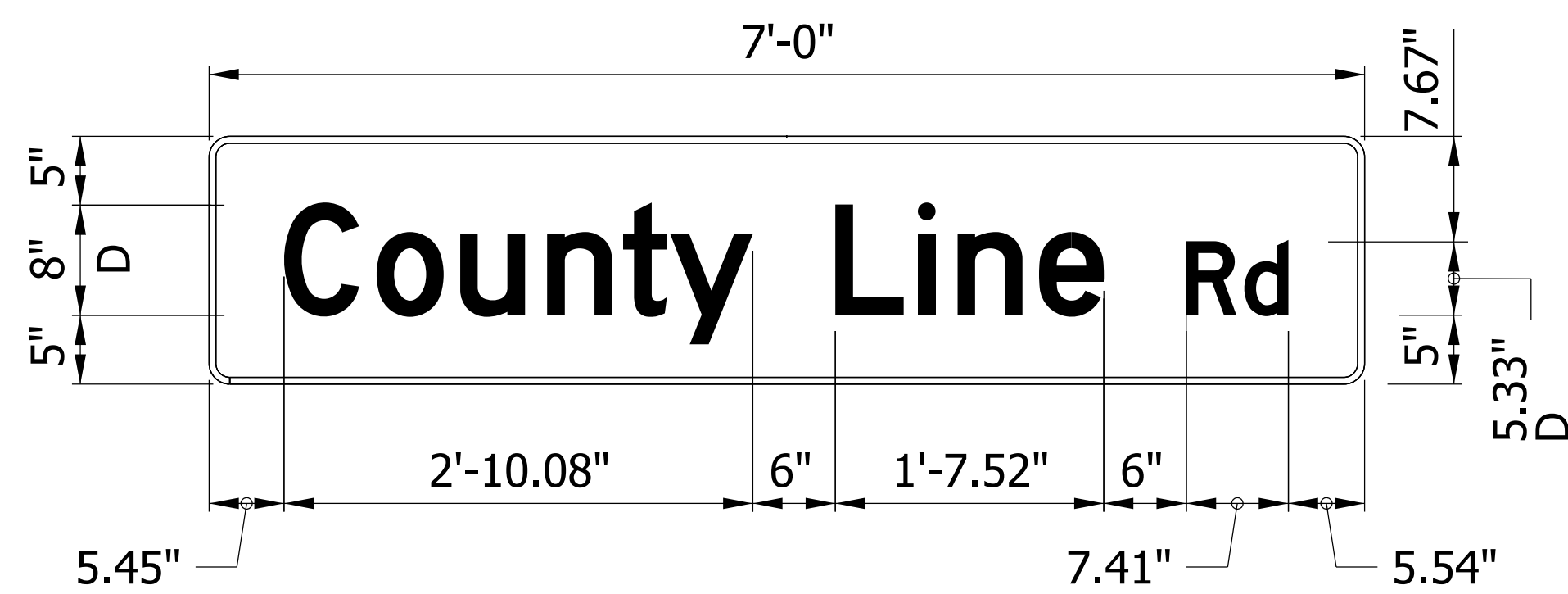
jshurton
 2/26/2020 10:15:55 am
 model:Sheet1
 file:c:\adidib\p\l\mb..._jrfoster\greatakes\022275\174068-rd-s-g12.dgn



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	4/6/2020
DESIGNED:	RAW	DRAWN:
CHECKED:	MDC	CHECKED:

INDIANA
 DEPARTMENT OF TRANSPORTATION
 COUNTY LINE ROAD
 AT RAILROAD RD/PETERMAN RD.
 SIGNAL DETAIL INTERSECTION CONTROL #002872

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS
ELECTRONIC	70 of 72
CONTRACT	PROJECT
T-42856	1902693



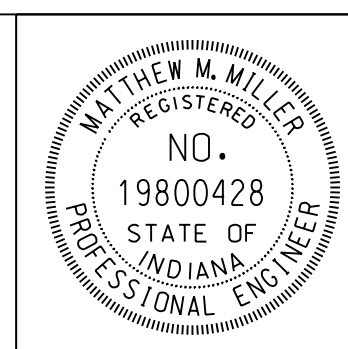
SIGN NUMBER	3 & 4
WIDTH x HGHT.	7'-0" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	1.875"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SIGN NUMBER	3 & 9
WIDTH x HGHT.	5'-6" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	1.875"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SIGN NUMBER	5 & 6
WIDTH x HGHT.	6'-0" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	1.875"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

DRAFT FOR PUBLIC COMMENT

jshurton 1/1/2021 12:00:00 am model:Sheet1 file:c:\adidib\pwr\inspence\pwr\great_lakes\02227541\74068-rd-sml.dgn



RECOMMENDED FOR APPROVAL	<i>Matthew Miller</i>	4/6/2020
	DESIGN ENGINEER	DATE
DESIGNED: _____	RAW	DRAWN: _____
		RAW
CHECKED: _____	MDC	CHECKED: _____
		MDC

INDIANA
DEPARTMENT OF TRANSPORTATION

COUNTY LINE ROAD
AT RAILROAD RD/PETERMAND RD.
SIGN DETAIL

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902693
SURVEY BOOK	SHEETS SN-02
ELECTRONIC	71 of 72
CONTRACT	PROJECT
T-42856	1902693

