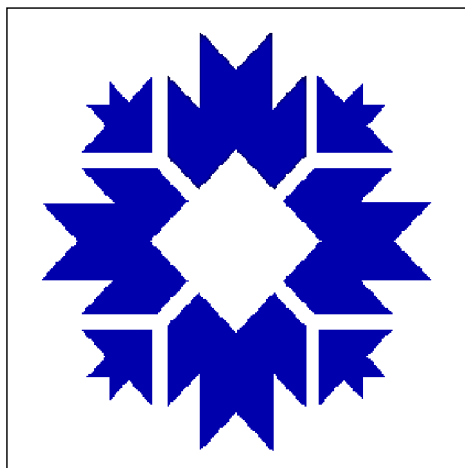
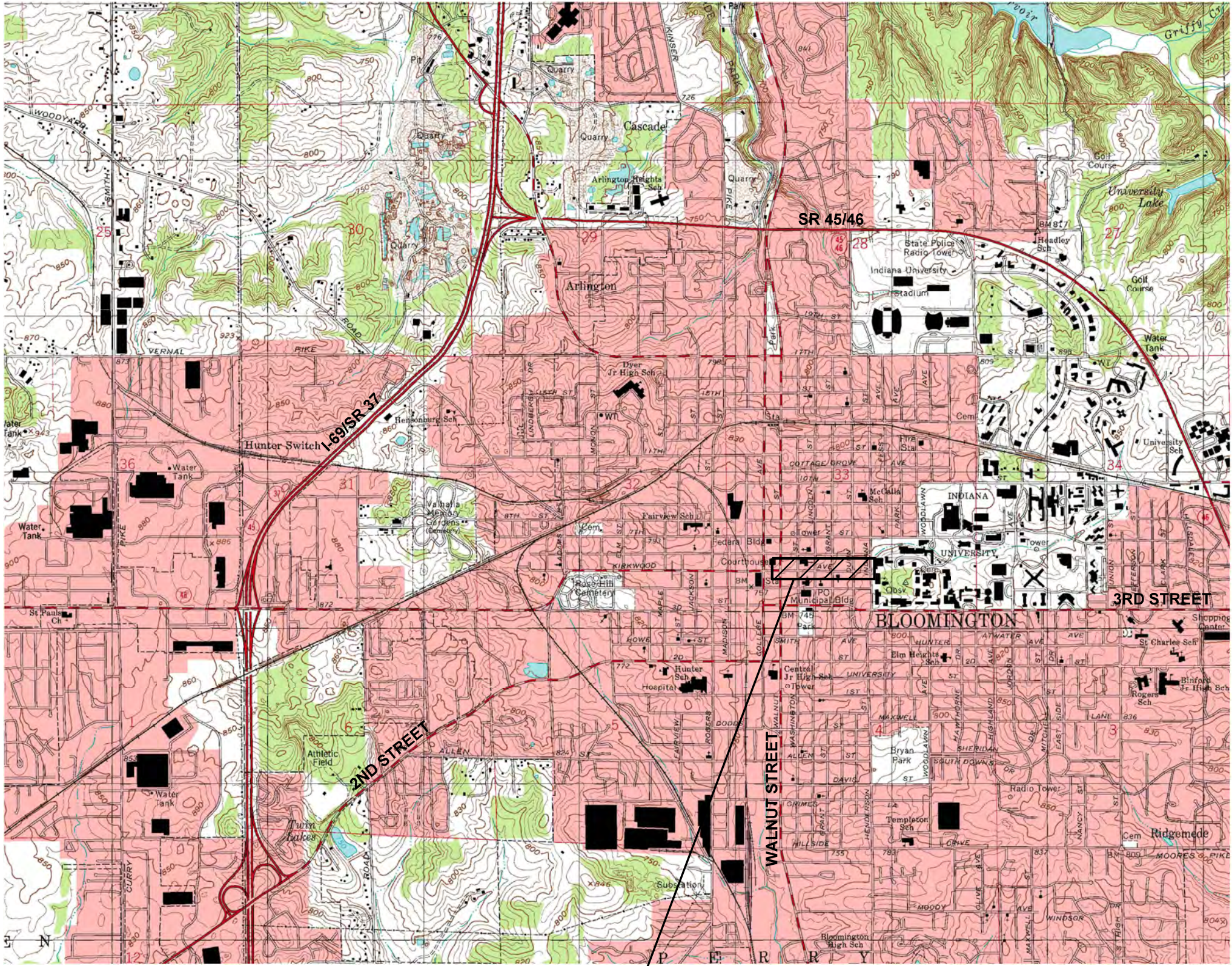


CITY OF BLOOMINGTON
DEPARTMENT OF PLANNING
AND TRANSPORTATION



KIRKWOOD AVENUE MAINTENANCE PROJECT

Gross Length: N/A
Net Length: N/A
Maximum Grade: N/A

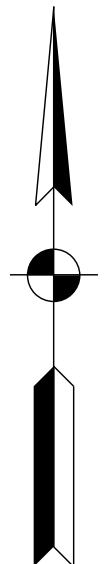


PROJECT AREA

PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY



PROJECT LOCATION SHOWN BY

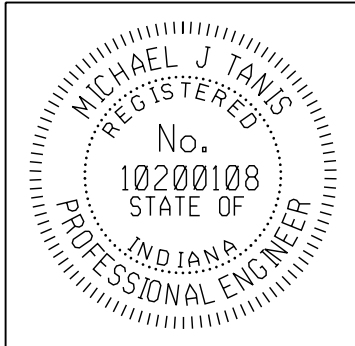


NTS

PREPARED BY:



1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672



PLANS PREPARED BY:		(317) 370-9672 PHONE NUMBER
CERTIFIED BY:		4-12-2019 DATE
APPROVED FOR LETTING:		DATE

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS CURRENT EDITION
TO BE USED WITH THESE PLANS AND ANY
SUPPLEMENTS THEREOF

SHEETS
1 of 14
PROJECT

UTILITIES		
<u>CABLE TELEVISION</u> COMCAST ATTN: STEVE McARTOR 2450 SOUTH HENDERSON ST. BLOOMINGTON, IN 47401 (812) 360-3090	<u>ELECTRIC</u> DUKE ENERGY (DISTRIBUTION) ATTN: KERRY DUCKER 1100 WEST SECOND ST. P.O. BOX 2448 BLOOMINGTON, IN 47403 (812) 337-3035	<u>TELEPHONE/COMMUNICATIONS</u> AT & T PRIMARY: JOHN HALL (812) 334-4742 ALT: BRENT McCABE 4517 INDIANA BELL COURT BLOOMINGTON, IN 47408 (812) 334-4521
<u>GAS</u> VECTREN ENERGY ATTN: EVAN HAMILTON 205 SOUTH MADISON BLOOMINGTON, IN 47404 (812) 330-4061 ehamilton@vectren.com	<u>WATER</u> CITY OF BLOOMINGTON UTILITIES ATTN: MIKE HICKS 600 E. MILLER DRIVE BLOOMINGTON, IN 47401 (812) 349-3623	SMITHVILLE TELEPHONE CO. ATTN: CHAD HAWKINS 1600 W. TEMPERANCE ST. ELLETTSVILLE, IN 47429-0729 (812) 935-2377 chad.hawkins@smithville.com ALT: Service & Support (812) 876-2211
FOR SERVICE RELOCATIONS (48 HOUR NOTICE NEEDED) ATTN:	<u>STORM/SANITARY</u> CITY OF BLOOMINGTON UTILITIES ATTN: JANE FLEIG 600 E. MILLER DRIVE BLOOMINGTON, IN 47401 (812) 349-3631	CITY OF BLOOMINGTON CITY OF BLOOMINGTON STREET DEPARTMENT ATTN: MIKE STINSON 1981 S. HENDERSON STREET BLOOMINGTON, IN 47401 (812) 349-3448 stinsonm@bloomington.in.gov
<u>DATA</u> BLOOMINGTON DIGITAL UNDERGROUND ATTN: RICK ROUTON ITS DEPT., CITY HALL 401 N. MORTON ST. SUITE 150 BLOOMINGTON, IN 47404 (812) 349-3856		

REVISIONS		
SHEET NO.	DATE	REVISED








GENERAL NOTES	
	ALL REMOVAL ITEMS TO BE PAID AS CLEARING, PIPE REMOVAL, PAVEMENT REMOVAL, SIDEWALK REMOVAL, ASPHALT REMOVAL, CURB REMOVAL, CURB & GUTTER REMOVAL, LINE REMOVAL, PAVEMENT MARKINGS REMOVAL.
	ALL RADII ARE TO BACK OF CURB LINE.
	ALL PLANS ARE BASED FROM GIS MAPPING WITH FIELD VERIFICATION, NOT SURVEY.

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX / GENERAL NOTES / LEGEND / UTILITY DATA
3 - 4	TYPICAL DETAILS
5 - 8	SITE PLANS
9	MAINTENANCE OF TRAFFIC
10 - 13	PAVEMENT MARKINGS PLANS
14	MISCELLANEOUS SUMMARY OF QUANTITIES TABLE






GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

	LIGHT POLE
	WATER VALVE
	INLETS
	HYDRANT
	TREES
	SIGN
	POWER POLE
	MANHOLE (STORM, SANITARY)
	TELECOM MANHOLES




MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS











	INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
	TEMPORARY CONSTRUCTION FENCING, 48" MESH, ORANGE, ON TEMPORARY STANDS
	BARRICADE (TYPE III)
	CONSTRUCTION SIGNS (SHAPE PER MUTCD)
	TRAFFIC FLOW DIRECTION
	FLASHING ARROW SIGN
	INLET PROTECTION, CURB

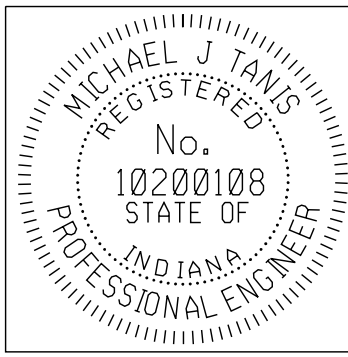
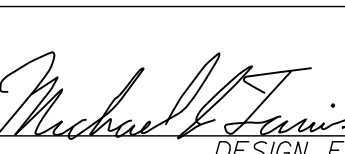
PROPOSED ITEMS

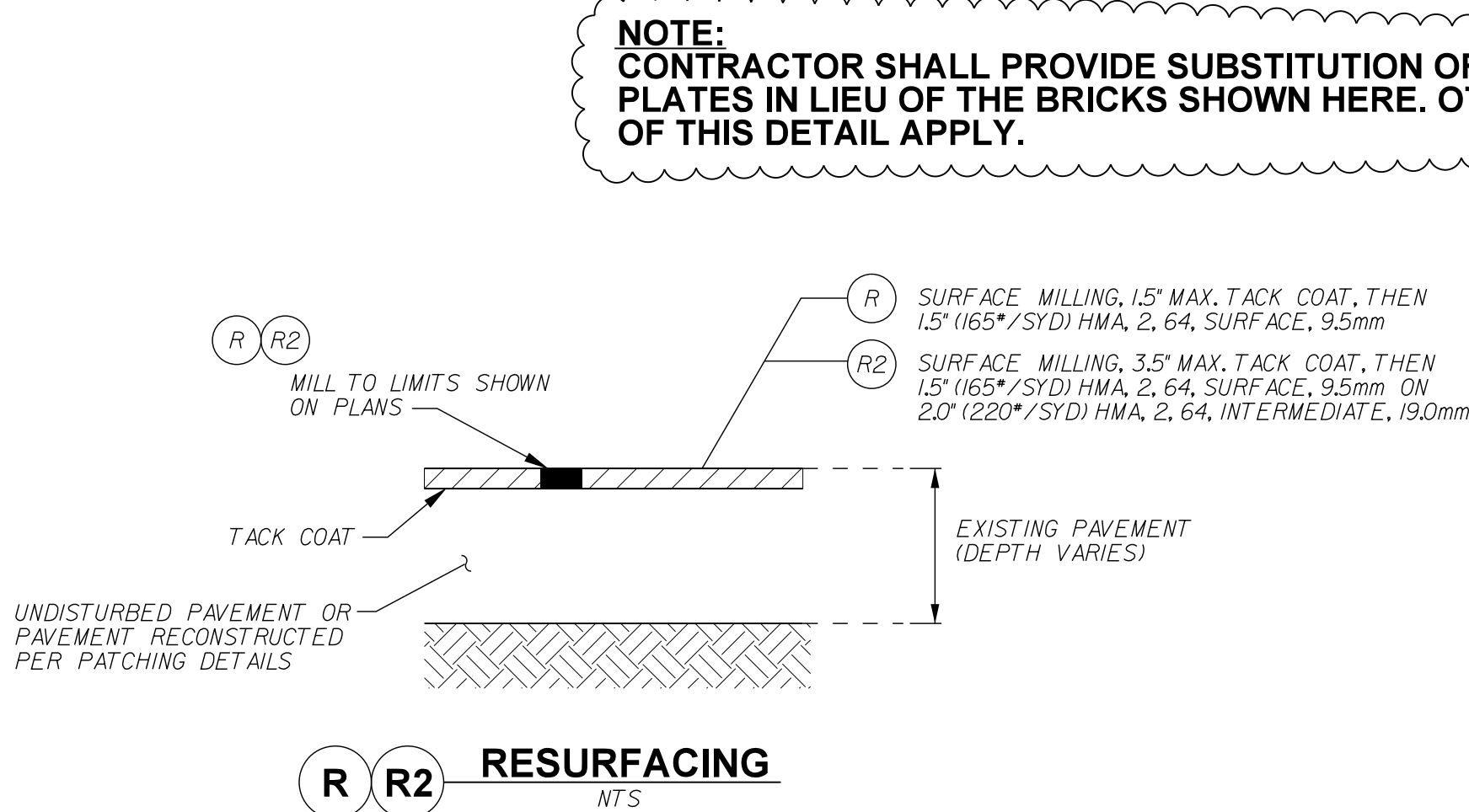
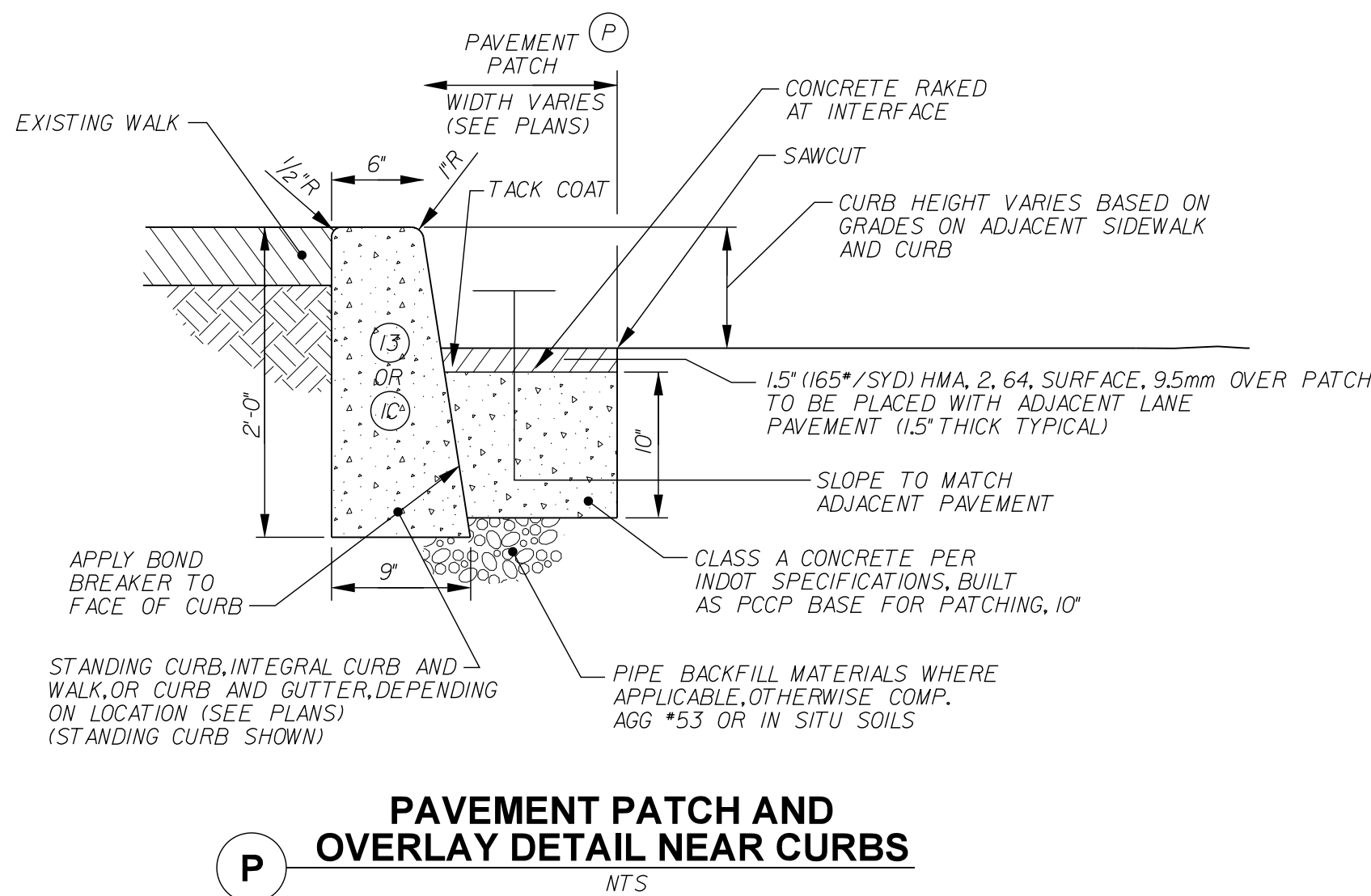
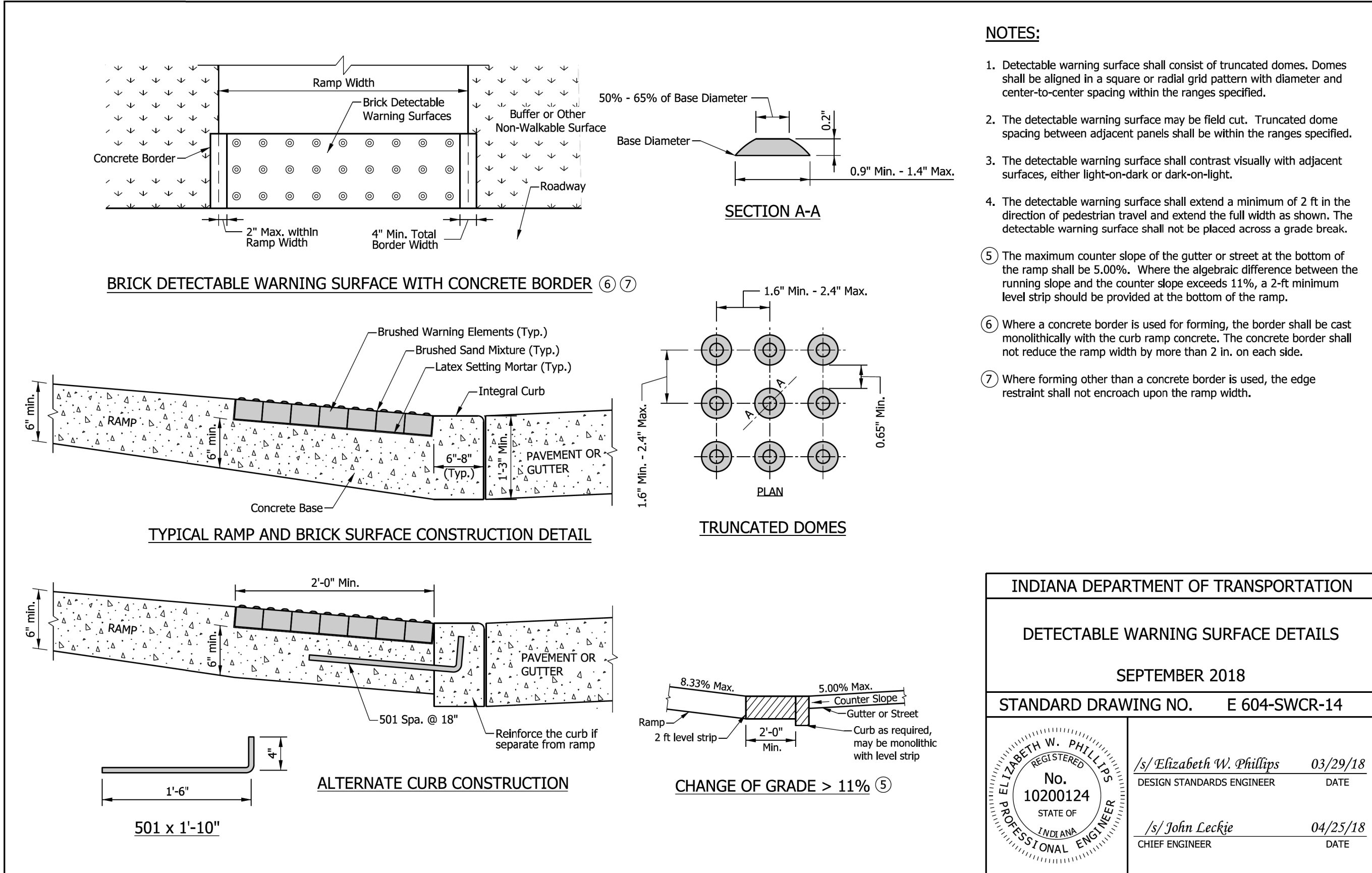
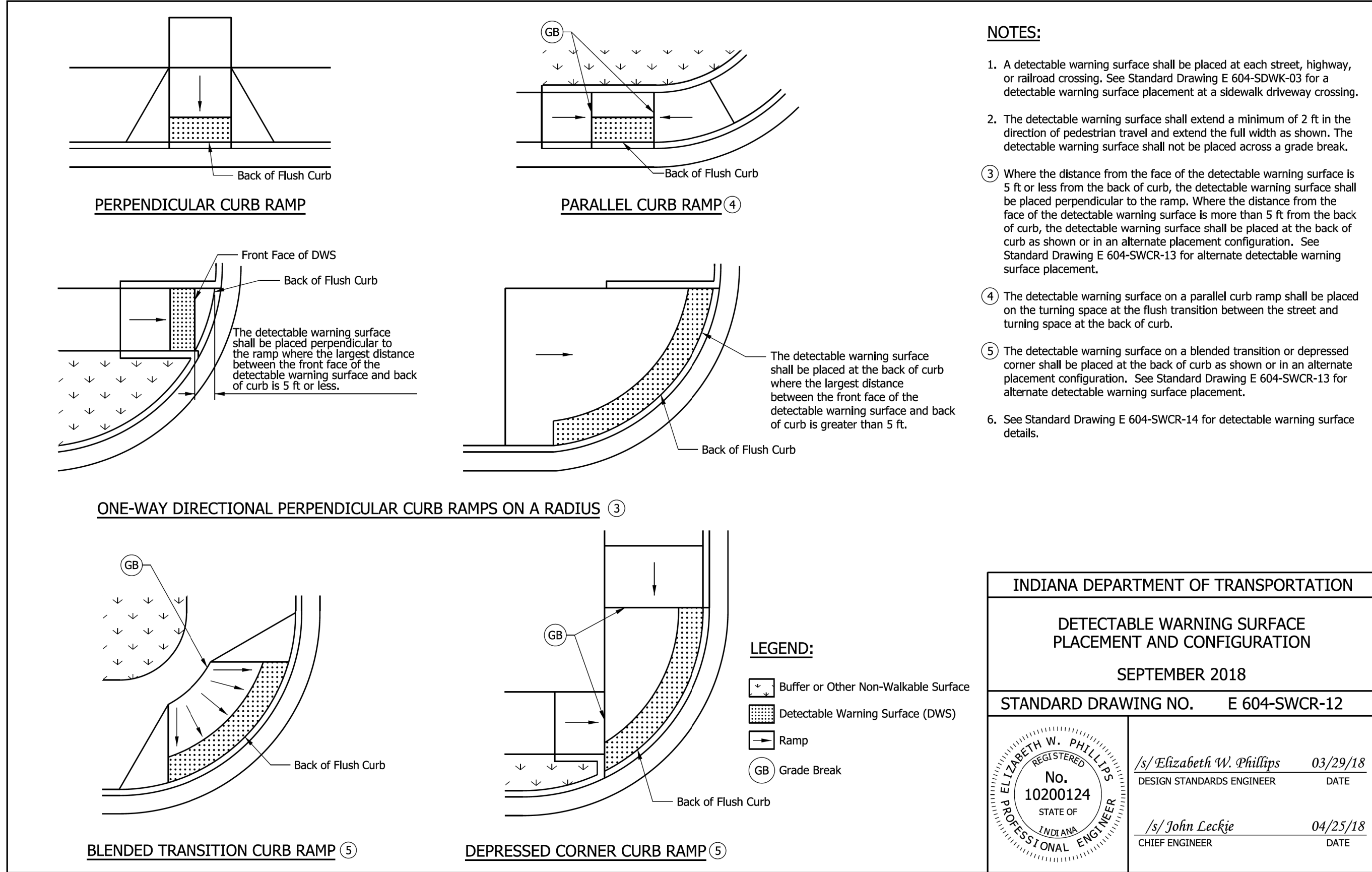
	CURB CONCRETE REMOVE OR CURB AND GUTTER REMOVE
	CONSTRUCTION LIMITS
	SIDEWALK/RAMP REMOVAL AND REPLACE, INCLUDING CONCRETE BORDERS, ON SUBGRADE TREATMENT TYPE III (INSPECT/RECOMPACT EXISTING SUBGRADE, UNDERCUT IF POOR CONDITIONS FOUND WITH APPROVAL BY OWNER/ENGINEER.
<div>NOTE: AREAS WITH BRICKS, CONTRACTOR SHALL KEEP EXISTING BRICKS IN GOOD CONDITION AND PLACE ON PALLETS FOR OWNER TO RELOCATE.</div>	
	REMOVABLE BOLLARD IN TRENCH FOUNDATION
	CROSSWALK REMOVAL AND REPLACEMENT 10" PCCP COLORED, STAMPED CONCRETE, ON SUBGRADE TREATMENT TYPE II, ON COMPACTED EXISTING SUBGRADE (UNDERCUT IF POOR CONDITIONS FOUND WITH APPROVAL BY OWNER/ENGINEER)

- NOTES:
1. REMOVAL ITEMS OF SIDEWALK, PAVEMENT, AND PAVEMENT
MARKINGS TO BE INCLUDED IN OTHER ITEMS.
2. BORDER PCCP PAID AS PCCP COLORED, STAMPED CONCRETE.

RAMP/SIDEWALK GRAPHICS	
	DETECTABLE WARNING SURFACE
	SLOPED PORTION OF RAMP (OR SIDEWALK TRANSITION) (POINTS DOWNHILL)
	TURNING SPACE - THIS AREA CANNOT EXCEED 2% IN ANY DIRECTION

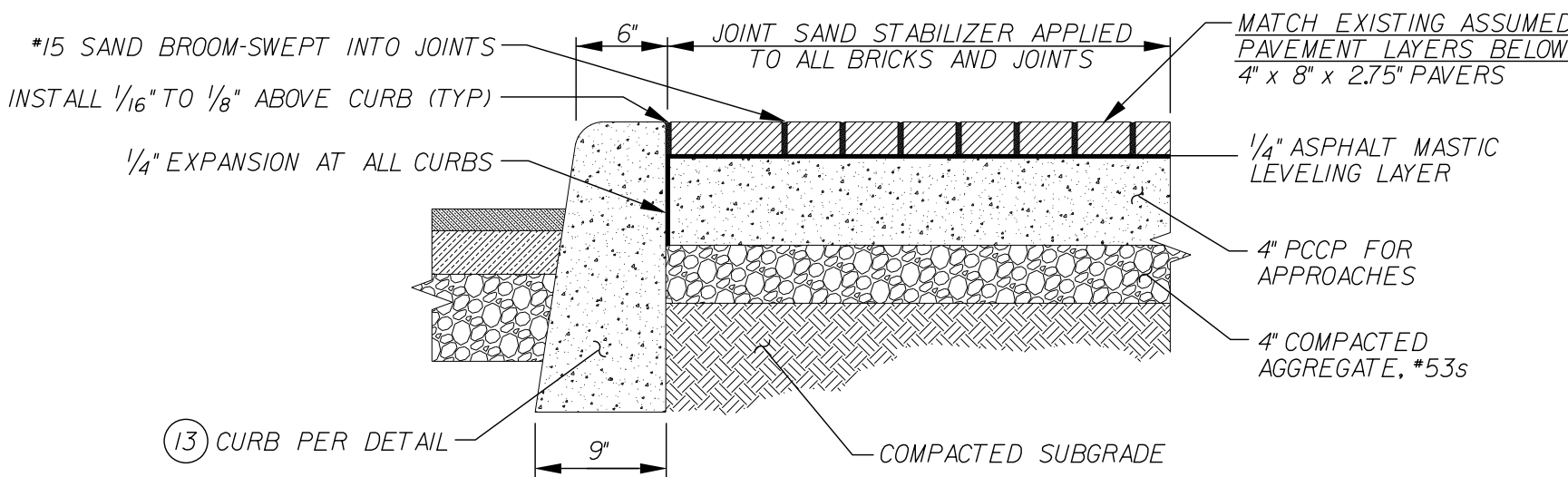
	PAVEMENT REPLACEMENT 1.5" (165*/SYD) HMA, 2, 64, SURFACE, 9.5mm, ON 10" PCCP FOR PATCHING, ON SUBGRADE TREATMENT TYPE II, ON COMPACTED EXISTING SUBGRADE (UNDERCUT IF POOR CONDITIONS FOUND WITH APPROVAL BY OWNER/ENGINEER).
	SURFACE MILLING, 1.5" MAX. TACK COAT, THEN 1.5" (165*/SYD) HMA, 2, 64, SURFACE, 9.5mm
	SURFACE MILLING, 3.5" MAX. TACK COAT, THEN 1.5" (165*/SYD) HMA, 2, 64, SURFACE, 9.5mm ON 2.0" (220*/SYD) HMA, 2, 64, INTERMEDIATE, 19.0mm
	CONCRETE CURB, OR CURB AND GUTTER, BARRIER, 6" OR VARIES TO MATCH EXISTING ADJACENT CURB HEIGHT
	ADJUST CASTING TO GRADE
	LINE, THERMOPLASTIC, SOLID, YELLOW, 4 IN.
	LINE, THERMOPLASTIC, SOLID, WHITE, 4 IN.
	LINE, WHITE, 6", THERMOPLASTIC
	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALKS AND STOP BARS, WHITE, 24"
	PAVEMENT MESSAGE MARKING, THERMOPLASTIC, HANDICAP SYMBOL, BLUE

<div></div>	RECOMMENDED FOR APPROVAL  4-12-2019 DESIGN ENGINEER DATE	CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION		HORIZONTAL SCALE N/A	
	DESIGNED: _____ MT _____ DRAWN: _____ SCS _____	INDEX / GENERAL NOTES / LEGEND / UTILITY DATA		VERTICAL SCALE N/A	DESIGNATION
	CHECKED: _____ BR _____ CHECKED: _____ BR _____			SURVEY BOOK	SHEETS 2 of 14
				CONTRACT	PROJECT



BASE REPAIR PAVEMENT REPLACEMENT

NTS

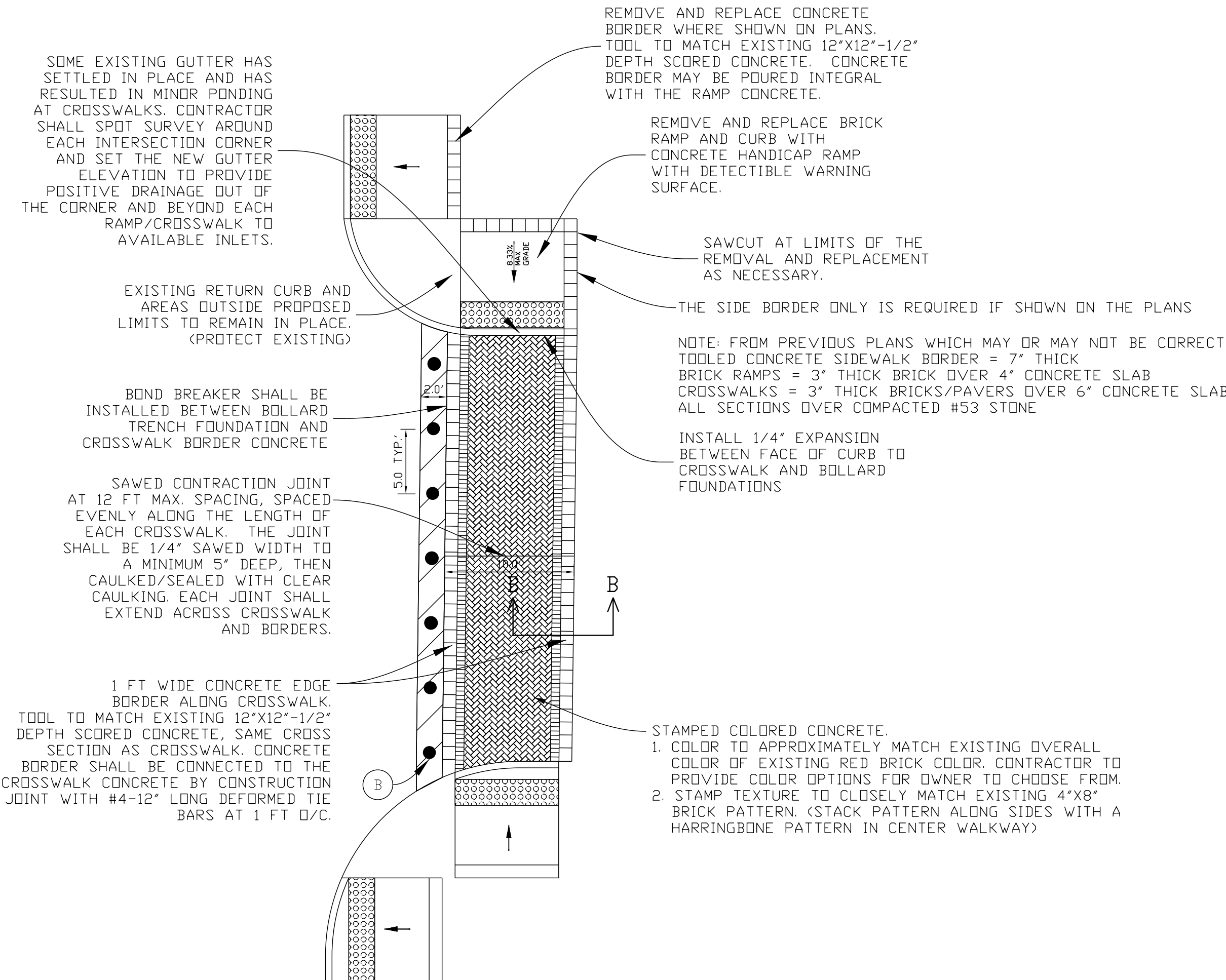


CITY OF BLOOMINGTON

PLANNING AND TRANSPORTATION

TYPICAL DETAILS

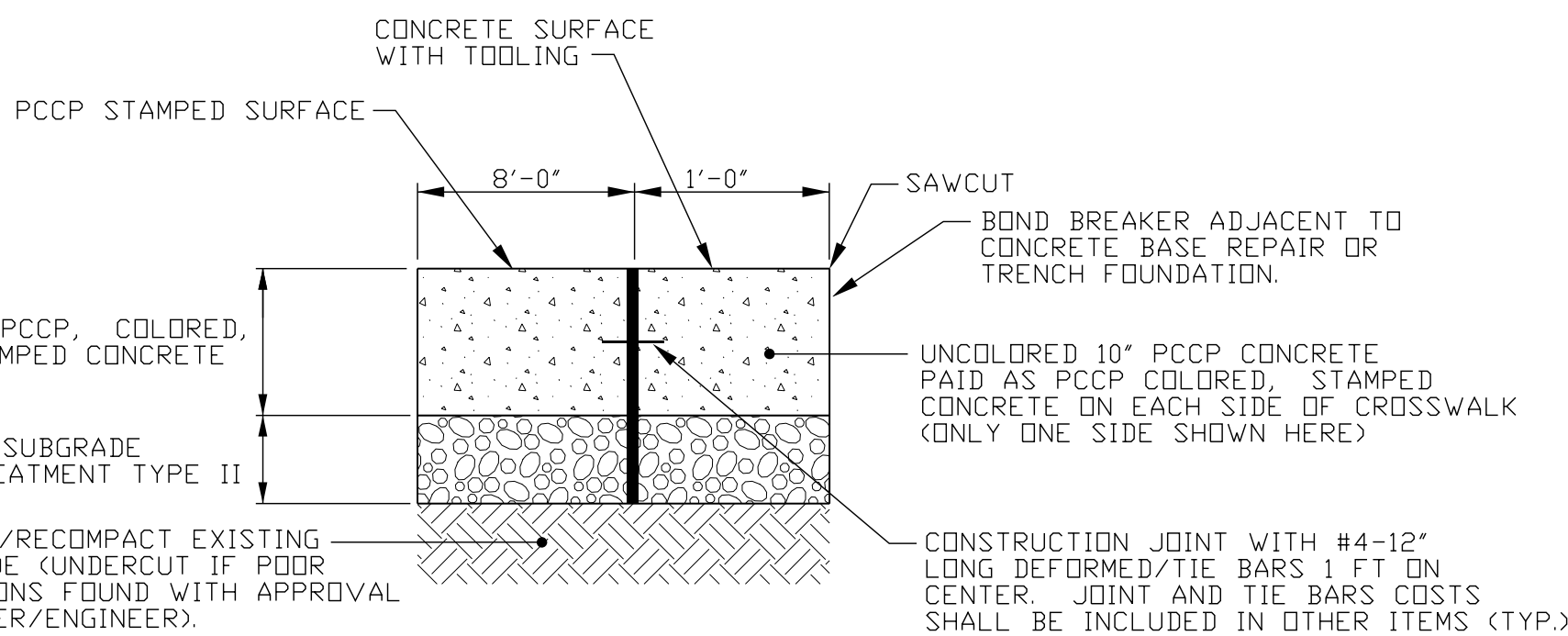
HORIZONTAL SCALE	N/A
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
CONTRACT	3 of 14
	PROJECT



PLAN VIEW

CW NOTES:

1. PCCP, COLORED SHALL COMPLY WITH SECTION 502 OF THE INDOT STANDARD SPECIFICATIONS. THE COLORING MATERIAL SHALL BE INTEGRAL FOR FULL DEPTH OF PCCP, AND APPROVAL OF THE COLOR BY THE OWNER/ENGINEER IS REQUIRED. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR COLORING AND STAMPING OF THE CONCRETE. COLOR SAMPLES AND FINISH ARE SUBJECT TO APPROVAL BY THE CITY IN ADVANCE OF CONSTRUCTION.
2. PROTECT ADJACENT NON-COLORED CONCRETE DURING THE PLACEMENT AND FINISHING OF THE COLORED AREAS.
3. PCCP CONCRETE BORDER ON EACH SIDE OF THE COLORED CONCRETE, 1' WIDE, SHALL NOT BE COLORED.
4. THE COLORED CROSSWALK SHOULD BE PLACED AS A SINGLE BATCH/POUR TO ENSURE CONSISTENCY OF COLOR.
5. THE COLORED CROSSWALK AND CONCRETE BORDER SHALL HAVE A SAWED CONTRACTION JOINT AT 12 FT MAX. SPACING, SPACED EVENLY ALONG THE LENGTH OF EACH CROSSWALK. THE JOINT SHALL BE 1/4\"/>



SECTION B-B

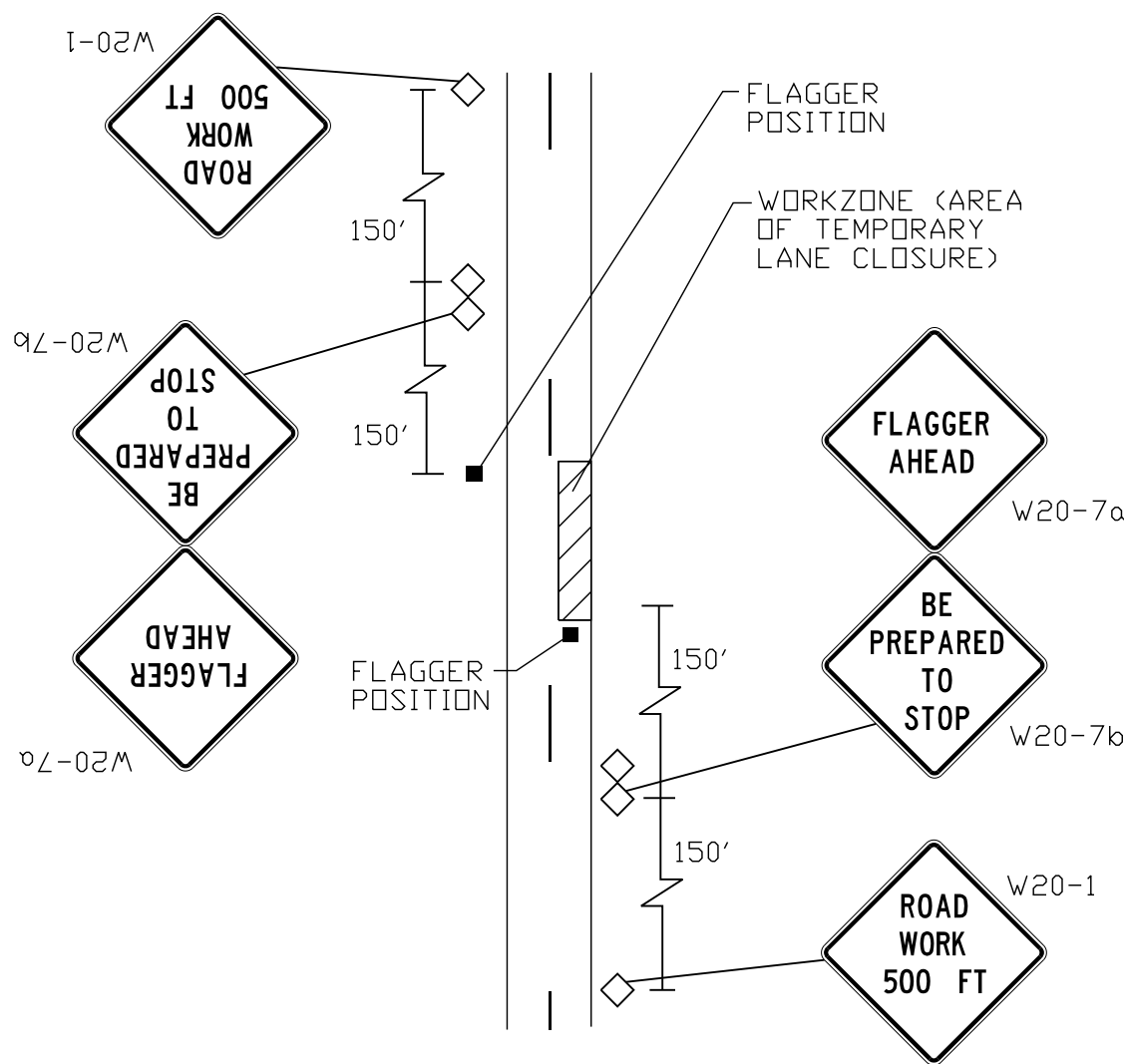
TYPICAL LANE RESTRICTIONS ON PUBLIC ROADS USING FLAGGER (IF NEEDED)

NOTE:
DISTANCES SHALL BE ADJUSTED TO FIELD CONDITIONS WHERE SPACE IS LIMITED.

THIS DETAIL MAY BE USED ONLY DURING DAYTIME HOURS AND A FLAGGER OPERATION IS PREFERRED. IT SHALL NOT BE USED WHERE PATCHING OPERATIONS ARE LEFT UNFINISHED OVERNIGHT WITHOUT ATTENDANTS.

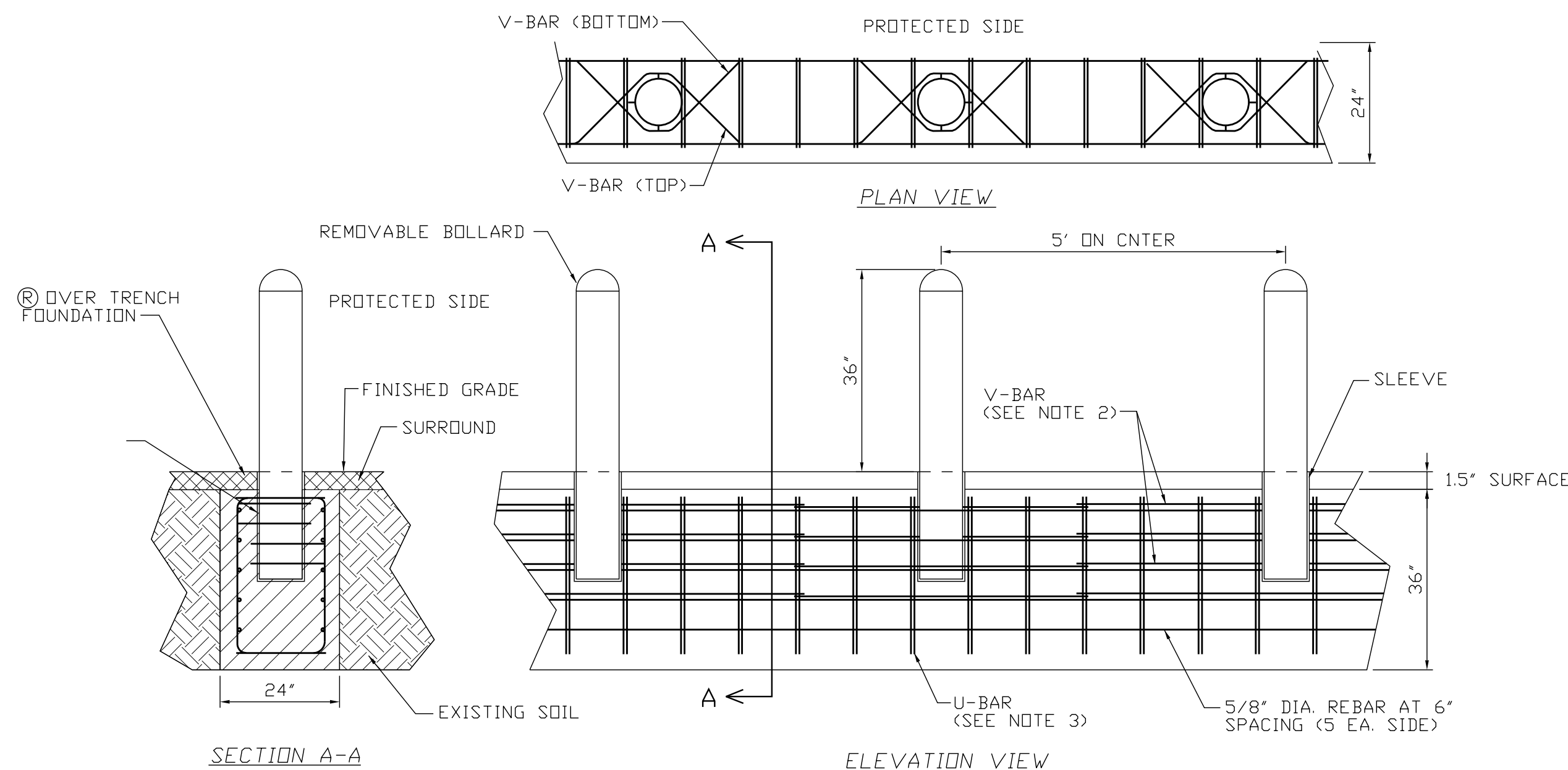
GENERAL REQUIREMENTS:

1. FLAGGER OPERATIONS AND TEMPORARY SIGNAGE IN ACCORDANCE WITH INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ARE REQUIRED FOR ALL LANE RESTRICTIONS.
2. ALL SIGNS TO BE MOUNTED ON STANDARDS.
3. ALL SIGNS, BARRICADES AND DRUMS TO BE MOUNTED WITH A TYPE C (STEADY BURN) WARNING LIGHT AND MAINTAINED DUSK TO DAWN.



CW CROSSWALK TYPICAL DETAILS WITH TYPICAL CORNER/RAMP DETAILS

NTS

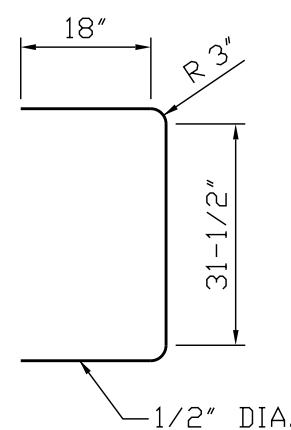


B REMOVABLE BOLLARD DETAIL

NTS

(TYPE S-20 REMOVABLE BOLLARDS IN TRENCH FOUNDATION, MANUFACTURED BY BOLLARD WAREHOUSE)

1. THE CONCRETE MUST BE INDOT CLASS B REBAR. CLEARANCE IS 1-1/2" AT TOP, 3" AT BOTTOM AND SIDES. MINIMUM LAP LENGTH FOR LONGITUDINAL BARS IS 20".
2. PLACE FOUR V-BARS PER BOLLARD AS SHOWN.
3. PLACE TWO PER BOLLARD AS SHOWN. PLACE U-BARS IN PAIRS, OVERLAPPING AS SHOWN. ADJUST SPACING AS NEEDED TO AVOID INTERFERENCE WITH BOLLARDS, BUT SPACING MAY NOT EXCEED 12". U-BAR PAIRS MAY BE REPLACED BY SINGLE CONTINUOUS RECTANGLE STIRRUPS AT CLIENT'S DISCRETION.



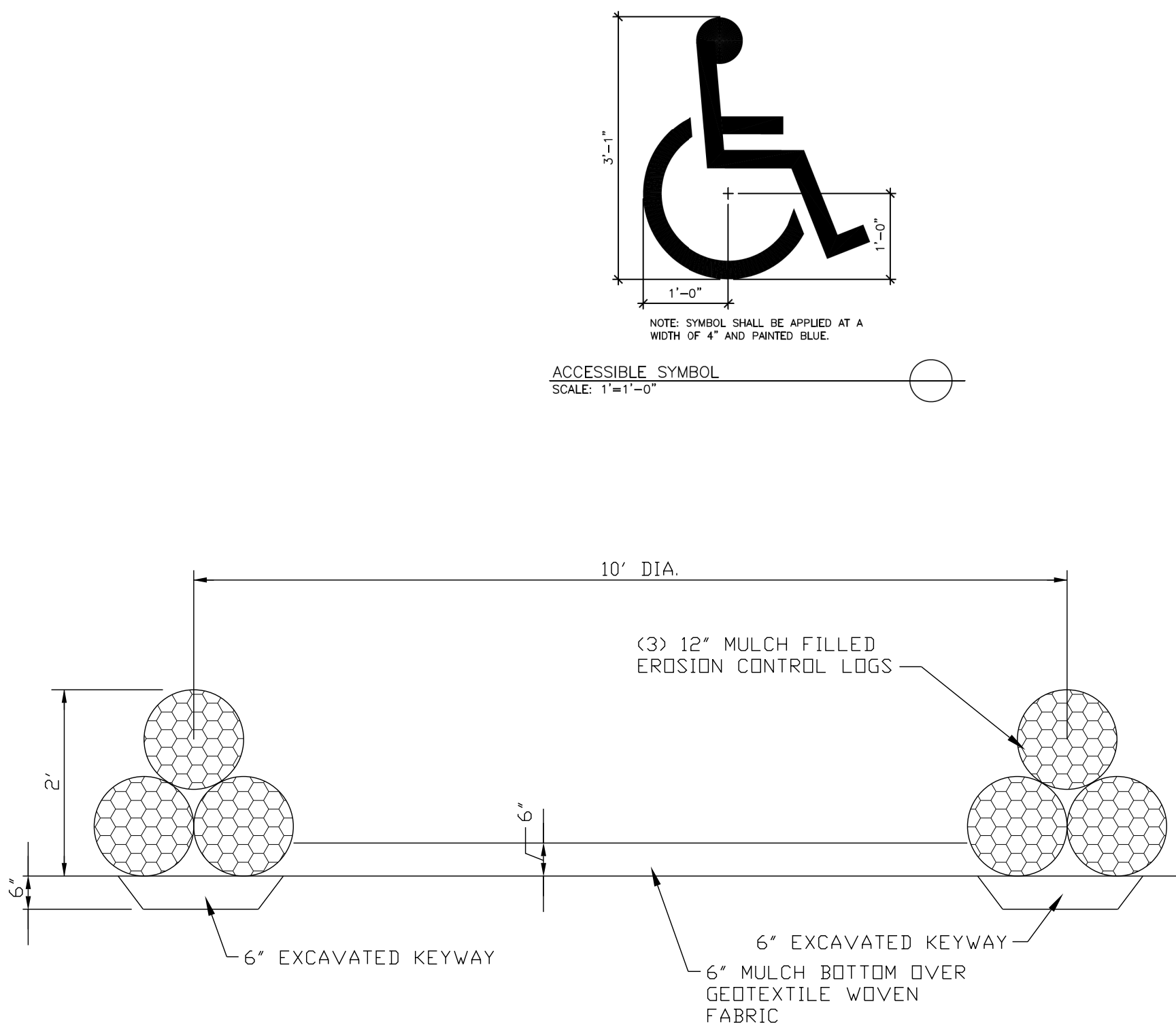
U-BAR

BAR SCHEDULE PER BOLLARD INSTALLATION:

#6 BAR	V-BAR	81-5/16" INCHES (6.78 FT)	4 EACH	10.18 LBS EA
#4 BAR	U-BAR	65 INCHES (5.42 FT)	12 EACH	3.62 LBS EA
#5 BAR	BAR	60 INCHES (5 FT/BOLLARD)	10 EACH	5.21 LBS EA
(<#5 BARS TO EXTEND 2.5' TO EACH SIDE OF OUTSIDE BOLLARDS, ASSUMING SINGLE PIECE FULL LENGTHS BARS USED) APPROXIMATELY 136.26 LBS PER BOLLARD				

UNSUITABLE MATERIALS NOTE

CONTRACTOR SHALL REPLACE UNSUITABLE MATERIALS BY REMOVAL AND REPLACEMENT WITH COMPACTED AGGREGATE (#2S OR #53S AS APPROPRIATE). ALL WORK SHALL BE PER STANDARD SPECIFICATIONS. GEOGRID MAY ALSO BE REQUIRED SUBJECT TO APPROVAL BY THE ENGINEER DEPENDING ON THE RESULTS OF PROOF-ROLLING AND CONDITION OF THE EXPOSED SUBGRADE.



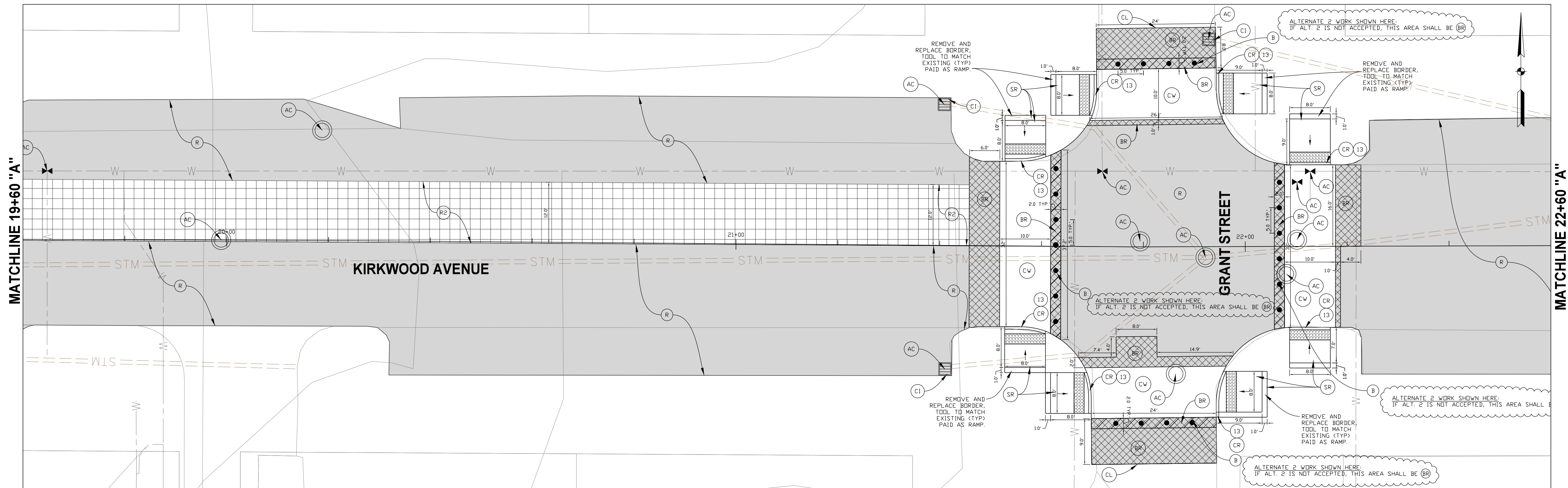
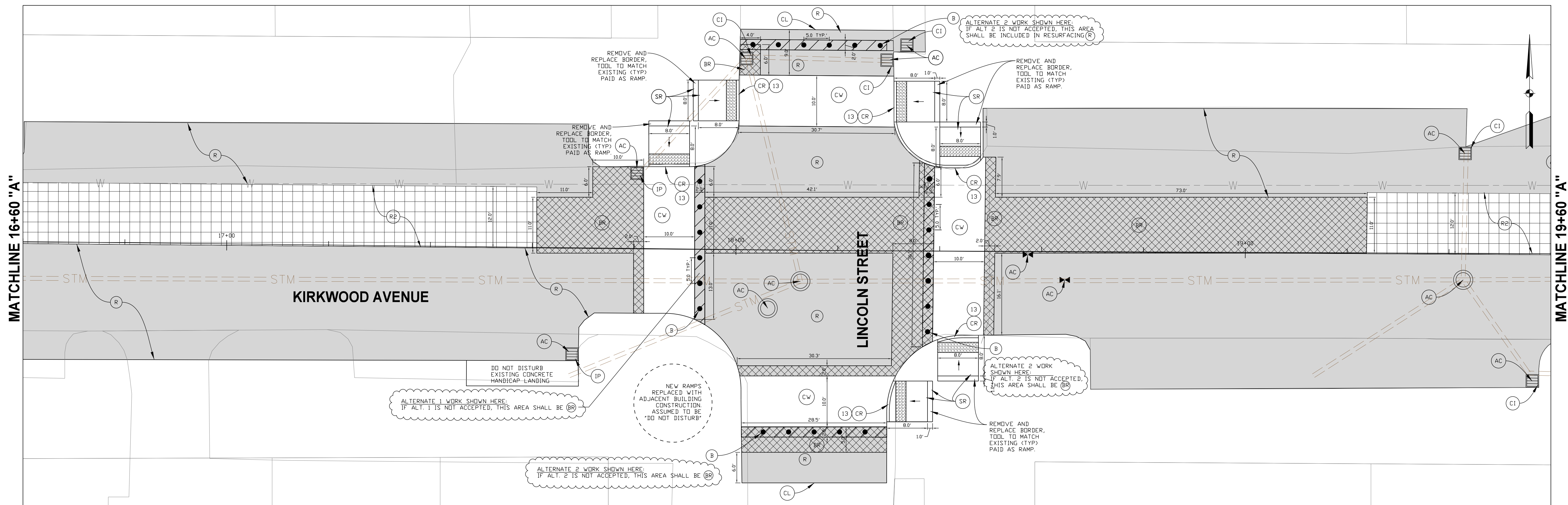
CONCRETE WASHOUT DETAIL

NTS

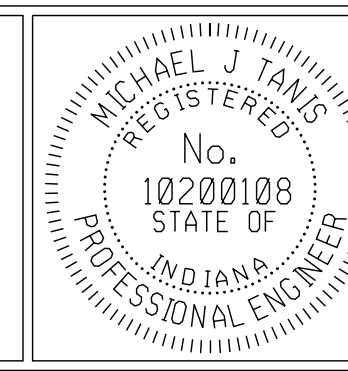
CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

TYPICAL DETAILS

HORIZONTAL SCALE	N/A
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
CONTRACT	4 of 14
	PROJECT



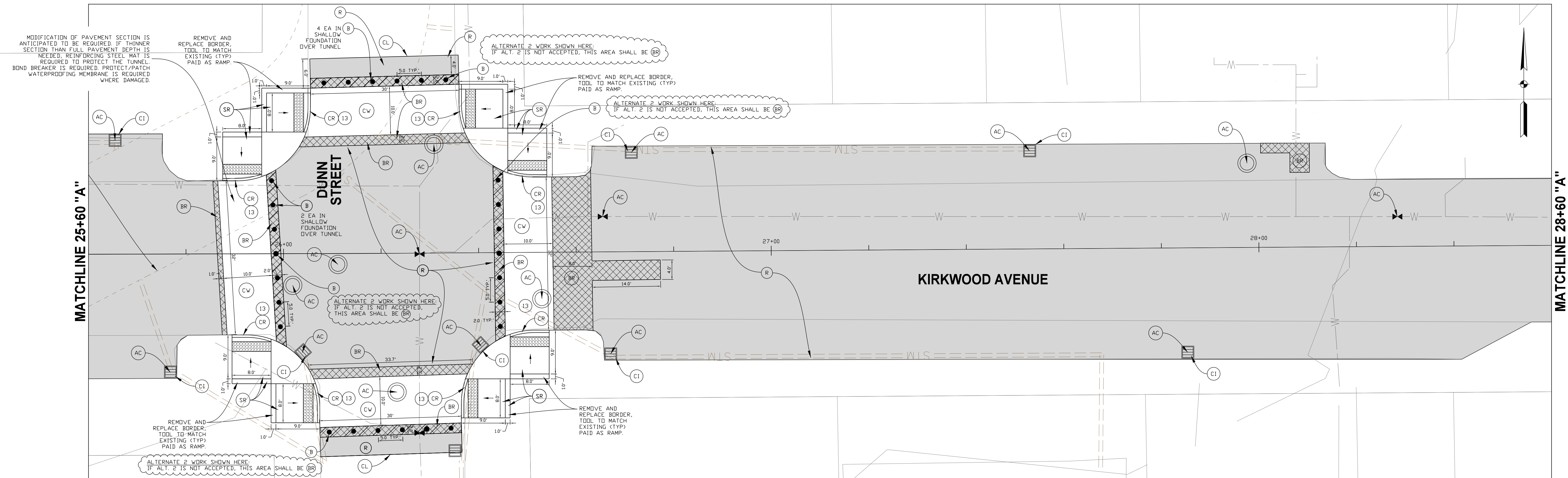
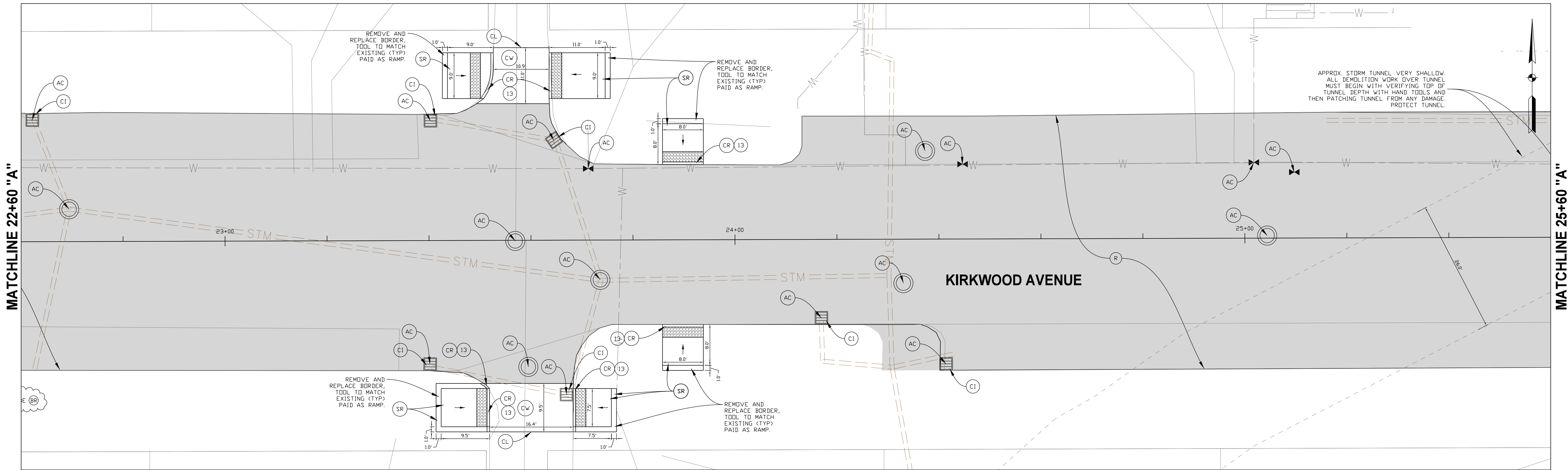
C:\Projects\108\108\Plan\Plan\108\108.dgn 6/26/2019 10:29:20 PM



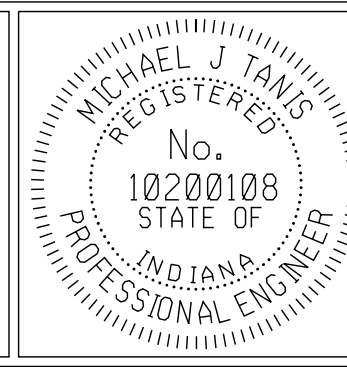
RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019
DESIGNED:	MT	DRAWN:
CHECKED:	BR	CHECKED:

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION
SITE PLAN

HORIZONTAL SCALE 1" = 10'-0"	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	6 of 14
	PROJECT



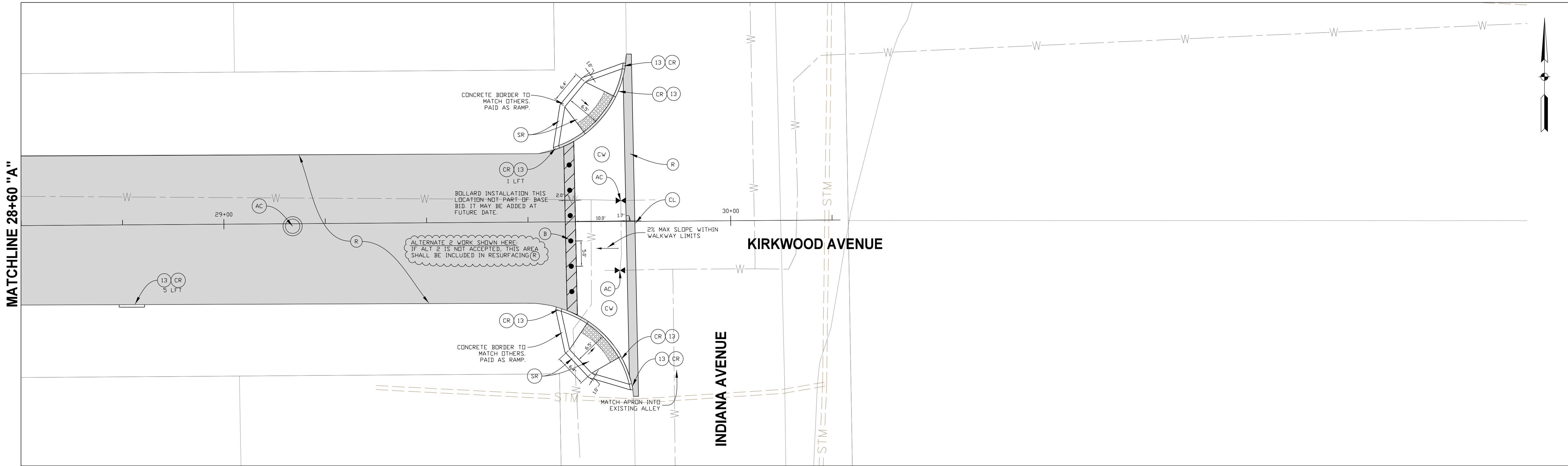
C:\Projects\1081\081\Plan\Prof\1081plan001.dgn 6/26/2019 10:29:20 AM



RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019	
DESIGN ENGINEER		DATE	
DESIGNED:	MT	DRAWN:	SCS
CHECKED:	BR	CHECKED:	BR

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION	
SITE PLAN	

HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	7 of 14
	PROJECT



C:\Projects\1018\Drawn\Plan\Prof\18plan001.dgn 6:26:58 PM 10/29/2019

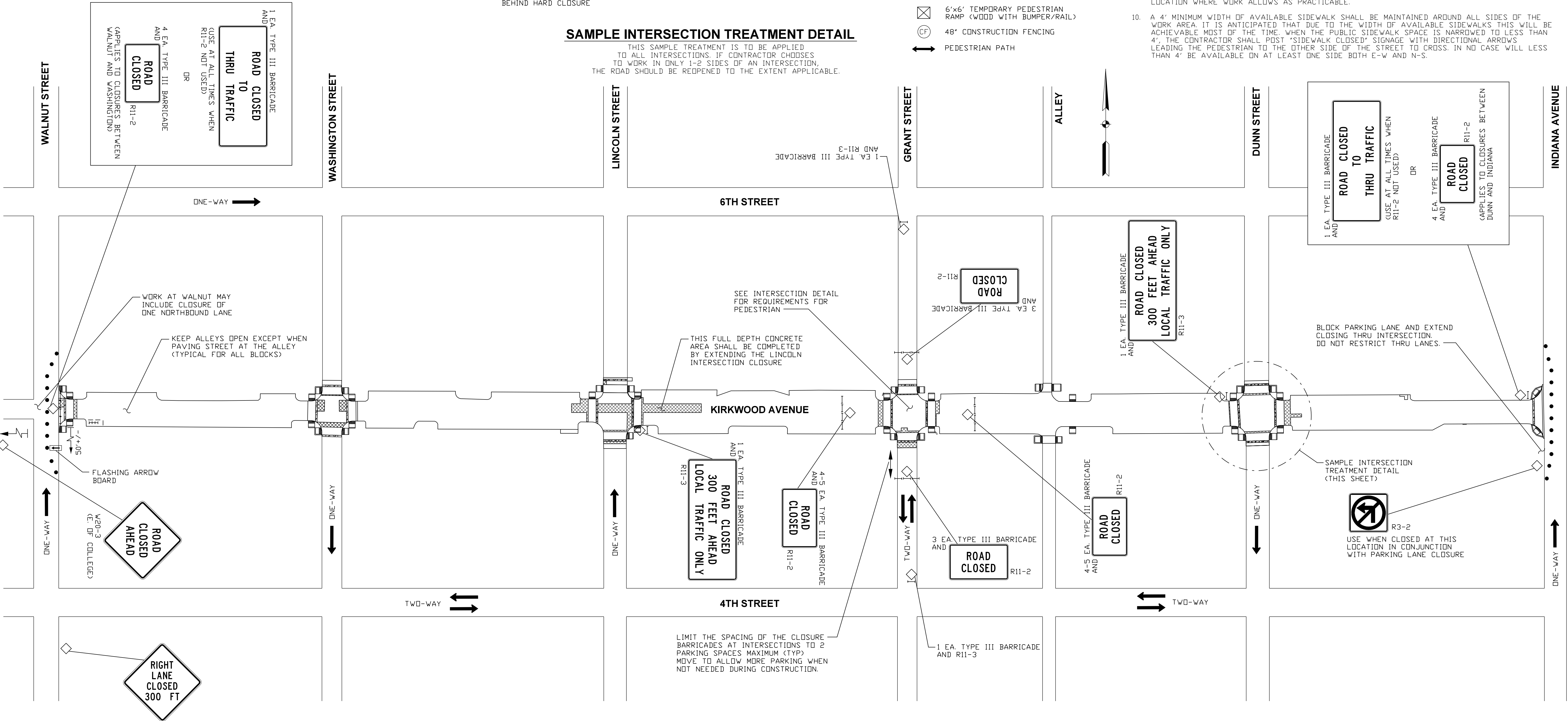
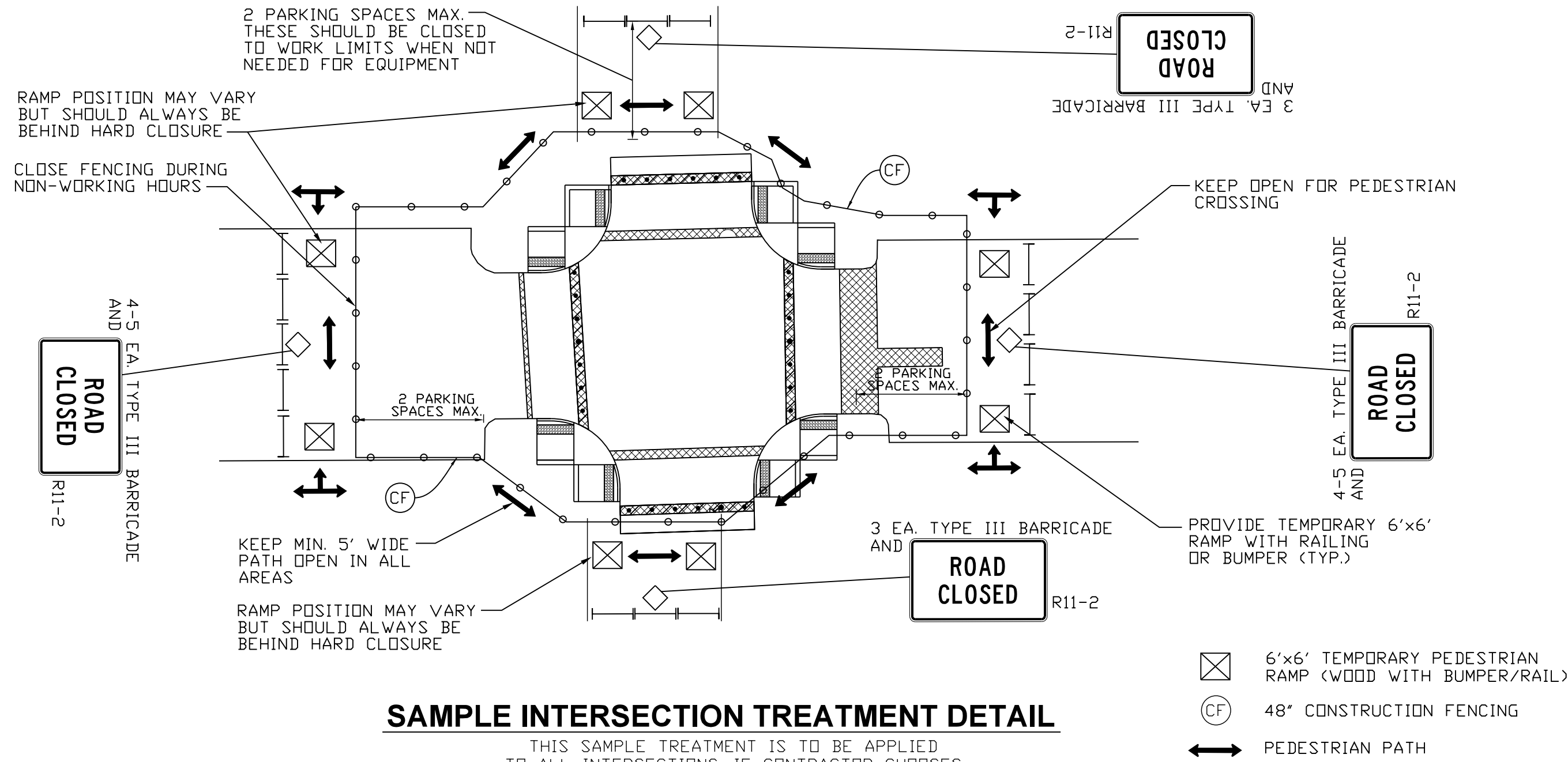


RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019
DESIGN ENGINEER		DATE
DESIGNED: MT	DRAWN: SCS	
CHECKED: BR	CHECKED: BR	

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION
SITE PLAN

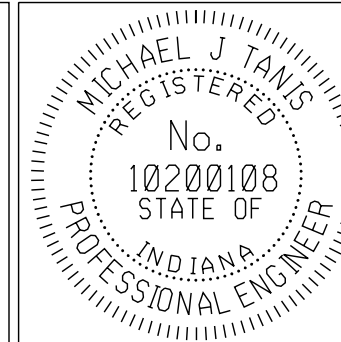
HORIZONTAL SCALE 1" = 10'-0"	DESIGNATION
SURVEY BOOK	SHEETS 8 of 14
CONTRACT	PROJECT

CONTRACTOR IS TO BE AWARE THAT THE CITY WILL HOST ITS ANNUAL 4TH OF JULY PARADE DOWN KIRKWOOD AVENUE DURING THIS PROJECT. CONTRACTOR IS TO HAVE THE JOBSITE FULLY CLEANED UP AND AVAILABLE FOR PUBLIC ACCESS BY 3PM ON JULY 3 AND MAY NOT RESUME WORK UNTIL JULY 5. THE EAST-WEST DIRECTION OF TRAVEL INCLUDING ALL STREET PAVING AND THE CROSSWALKS IN KIRKWOOD AVENUE SHALL BE OPEN AND AVAILABLE FOR UNLIMITED EAST-WEST VEHICULAR AND PEDESTRIAN USE. THE WORK MUST TAKE IN TO ACCOUNT NEEDED CURING TIMES SO THAT THE PAVED AREAS WILL BE OPEN TO TRAFFIC. SOME AREA CLOSURES WILL BE ALLOWED ON THE NORTH-SOUTH STREET APPROACHES IF NECESSARY, BUT THESE SHALL BE KEPT TO A MINIMUM. OPEN EXCAVATIONS MUST BE FILLED OR COVERED, EVEN IF WITHIN FENCED AREAS. PEDESTRIAN TRAVEL MUST BE FACILITATED AT ALL INTERSECTIONS ON ALL SIDES OF INTERSECTIONS, THOUGH ONLY ONE SIDE (MINIMUM) IN EACH DIRECTION MUST BE FULLY ADA COMPLIANT. ALL PAVEMENTS SHALL BE CLEANED. STOCKPILES AND STORAGE AREAS SHALL BE INSIDE CLOSED FENCED AREAS ONLY. EQUIPMENT SHALL NOT BE LEFT ON SITE WHERE PARADE VIEWERS AND ESPECIALLY CHILDREN MIGHT BE ATTRACTED TO CLIMBING ON OR AROUND IT. SUCH EQUIPMENT SHALL BE FULLY FENCED OFF OR TEMPORARILY REMOVED FROM THE SITE.



MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- FLASHING ARROW SIGN
- INLET PROTECTION, CURB
- CONSTRUCTION FENCING, 48", ORANGE ON TEMPORARY POSTS
- WORKZONE

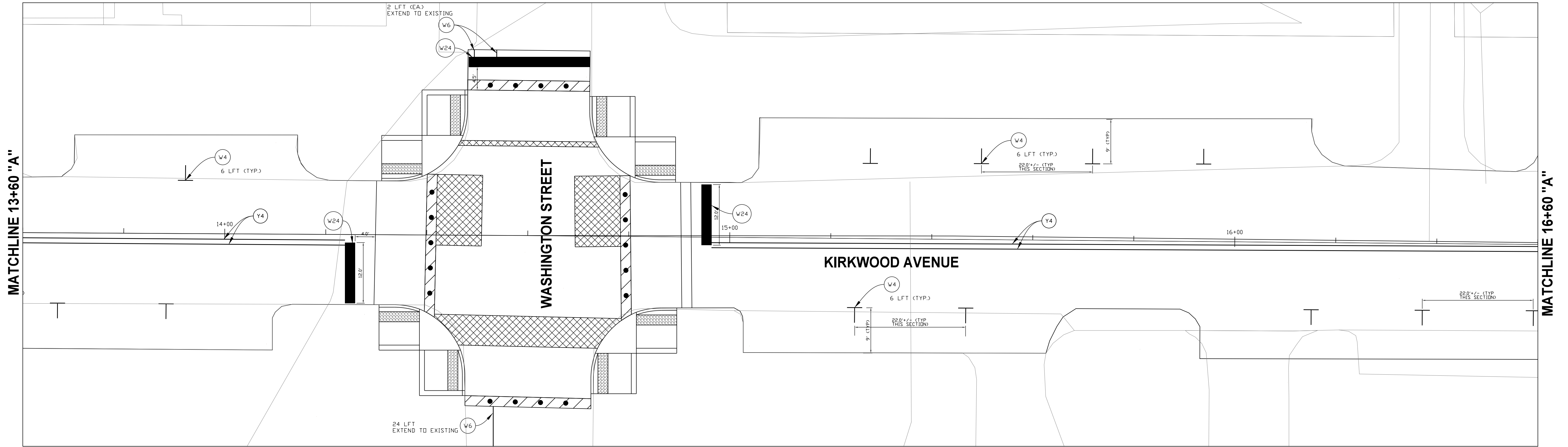
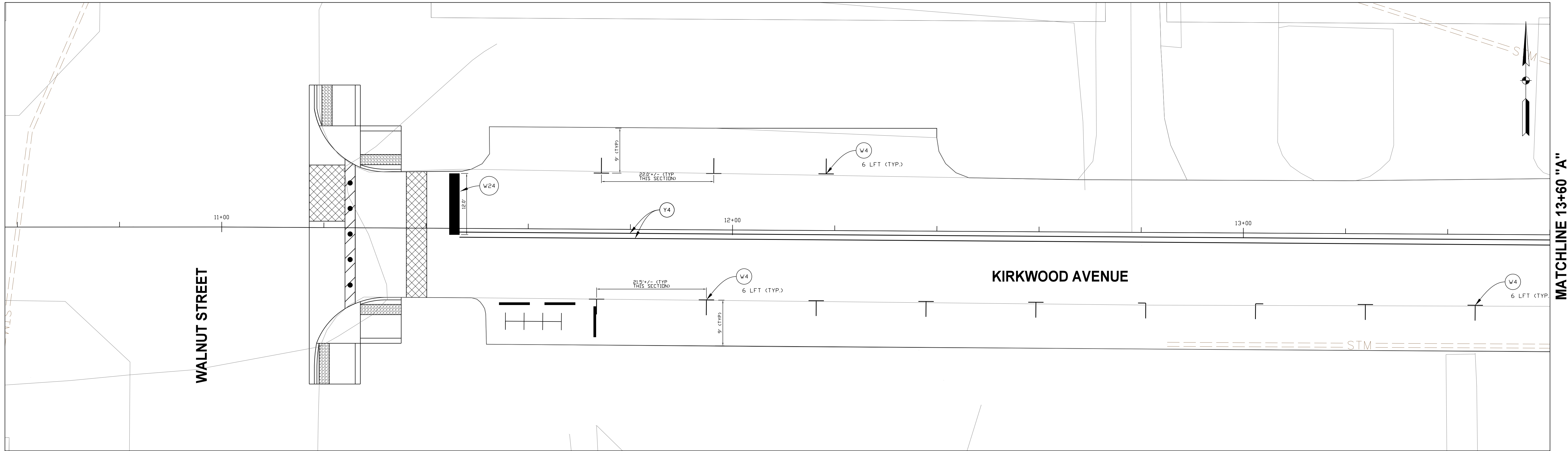


RECOMMENDED FOR APPROVAL: *Michael J. Tavis* 4-12-2019 DATE
DESIGNED: MT DRAWN: SCS
CHECKED: BR CHECKED: BR

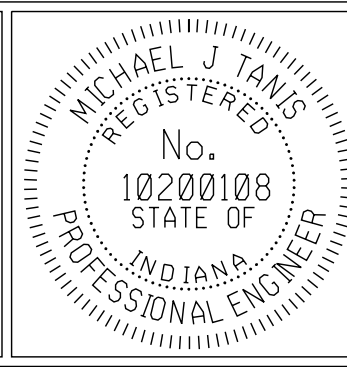
CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	9 of 14
	PROJECT



S:\Projects\10181\Drawings\10181\10181.dgn 6/27/2019 10:29:29 AM

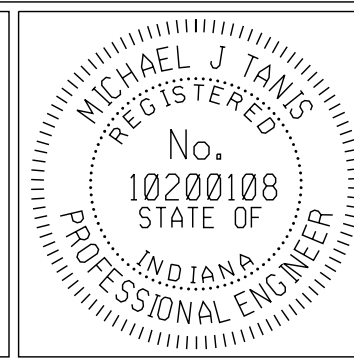
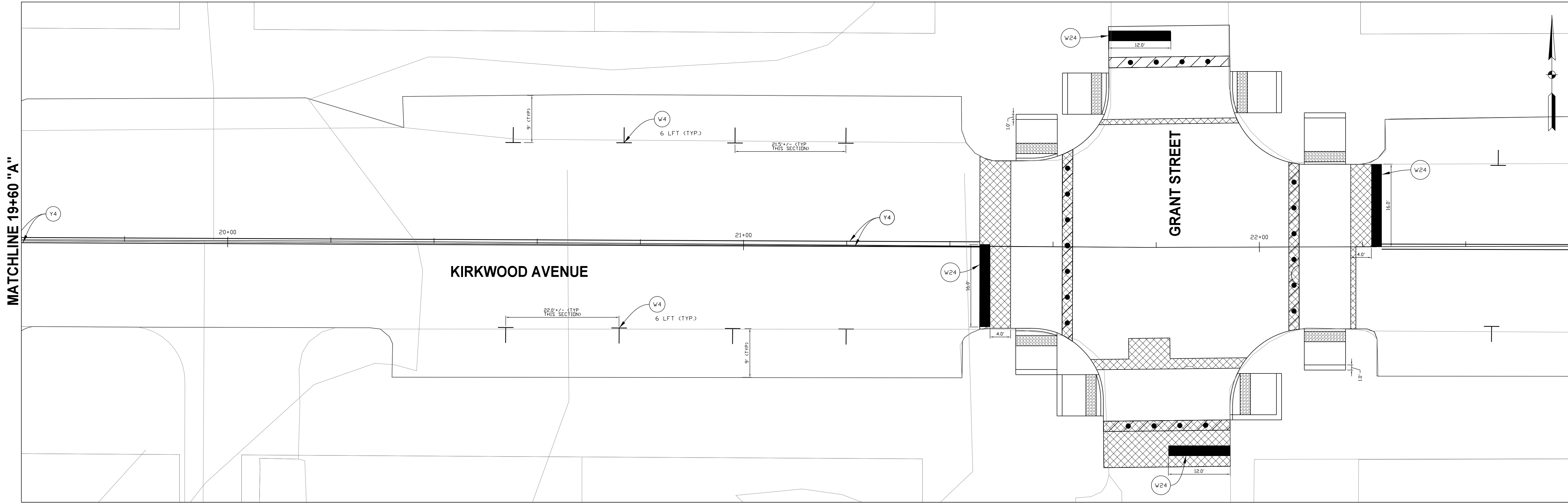
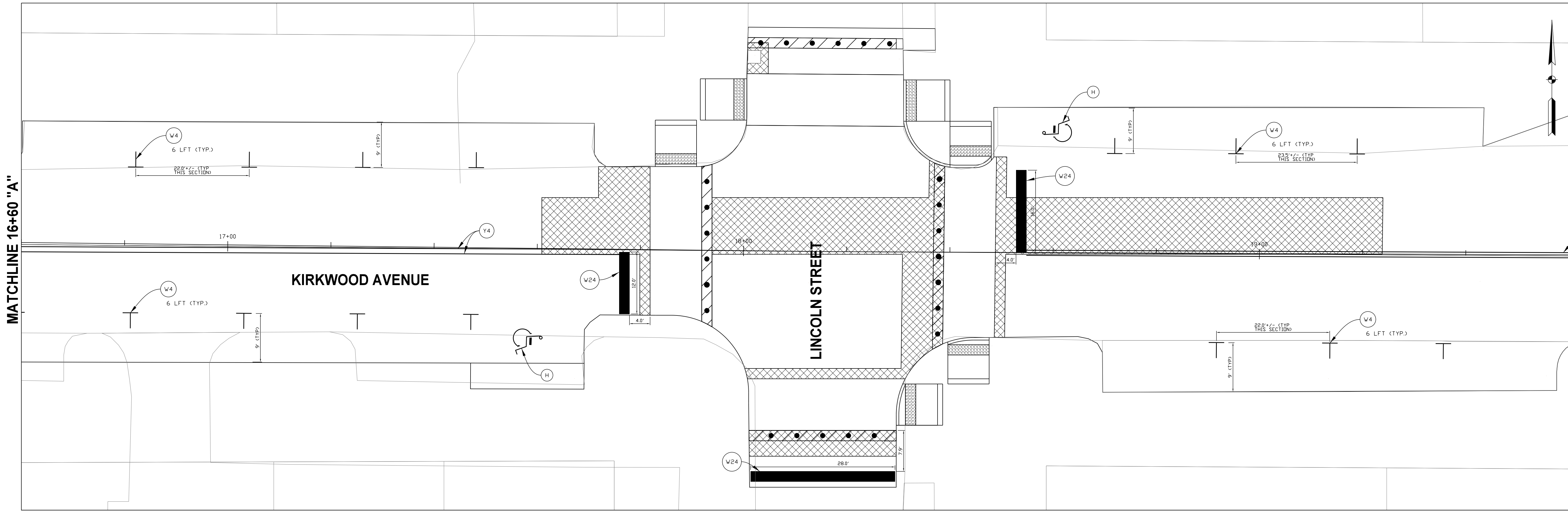


RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019	
DESIGN ENGINEER		DATE	
DESIGNED:	MT	DRAWN:	SCS
CHECKED:	BR	CHECKED:	BR

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION
PAVEMENT MARKINGS PLAN

HORIZONTAL SCALE 1" = 10'-0"	DESIGNATION
VERTICAL SCALE	
SURVEY BOOK	SHEETS 10 of 14
CONTRACT	PROJECT

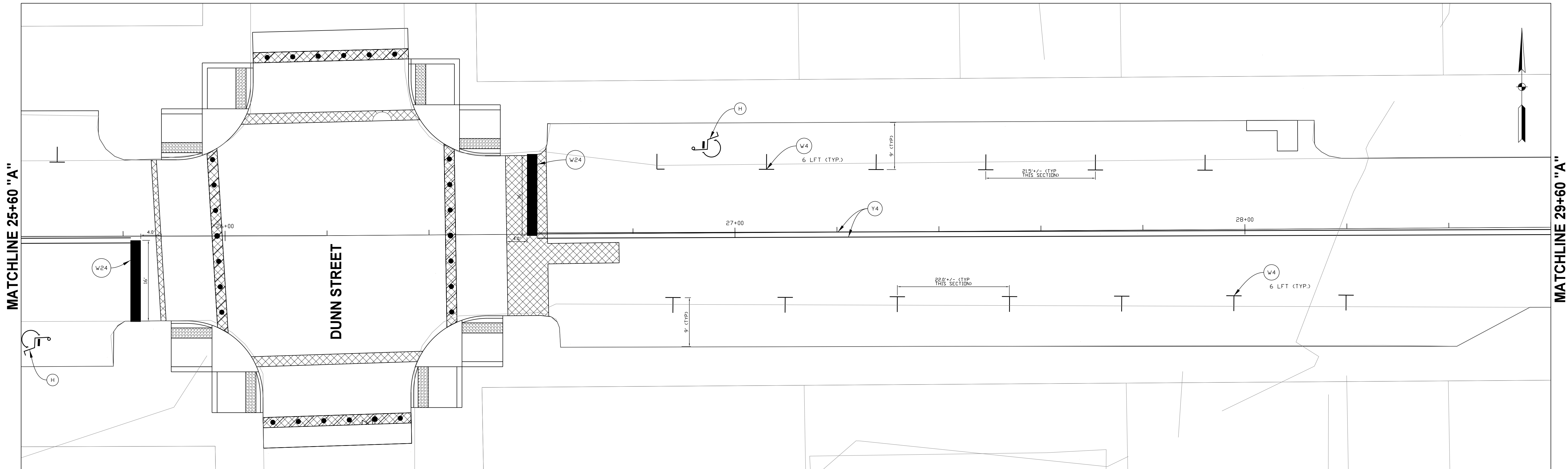
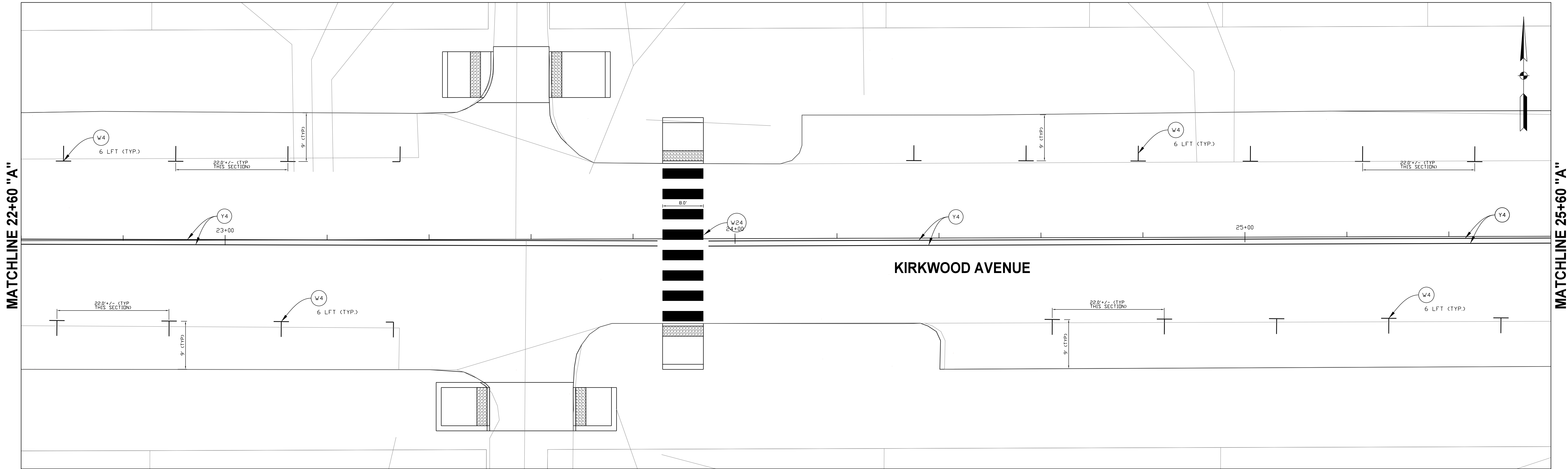
S:\Projects\10\Bloomington\Drawings\10200108\10200108.dgn
10/29/2019 6:27:07 PM



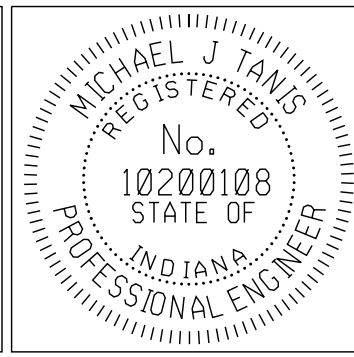
RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019 DATE
DESIGNED: MT	DRAWN: SCS	
CHECKED: BR	CHECKED: BR	

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION
PAVEMENT MARKINGS PLAN

HORIZONTAL SCALE 1" = 10'-0"	DESIGNATION
VERTICAL SCALE	
SURVEY BOOK	SHEETS 11 of 14
CONTRACT	PROJECT



S:\Projects\1018\1018\Drawings\1018\1018.dgn 6/27/2019 PM 10:29:29



RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	4-12-2019
DESIGNED:	MT	DRAWN:
CHECKED:	BR	CHECKED:

CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION
PAVEMENT MARKINGS PLAN

HORIZONTAL SCALE 1" = 10'-0"	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	12 of 14

Misc_Summ
10/30/2019 4:24:53 PM
C:\Projects\081\081\081\Tables\NBH001.dgn

MISCELLANEOUS SUMMARY OF QUANTITIES TABLE																														
LOCATION								RAMPS			CURBS	MISC. STRUCTURES			REMOVAL WORK, ALL PAID AS CLEARING		UNDERCUT - REMOVE AND REPLACE 12" OF EXIST. SUBGRADE WITH COMP. AGG. NO. 53a IN THREE LIFTS (UNDISTRIBUTED AT 10% OF PAVEMENT REMOVAL)	GEOGRID FOR UNDERCUTS (UNDISTRIBUTED AT SAME AREA AS UNDERCUT)	BOLLARDS (THESE QUANTITIES ASSOCIATED WITH ALTERNATES 1 AND 2)				PAVEMENT MARKINGS							
		MILLING, ASPHALT, 1.5"	MILLING, ASPHALT, 3.5"	PCCP BASE FOR PATCHING, 10"	10.0" PCCP, COLORED, STAMPED CONCRETE FOR CROSSWALKS	TACK COAT	HMA, 2.64 INTERMEDIATE, 19.0 MM (TYPE B)	HMA, 2.64 SURFACE, 9.5 MM (TYPE B)	CURB RAMP CONCRETE, INCL. TOOLING	DETECTABLE WARNING SURFACES	SUBGRADE TREATMENT, TYPE II	CURB, CONCRETE	VALVE CASTINGS, ADJ. TO GRADE	MANHOLES AND INLETS, ADJ. TO GRADE	INLET PROTECTION	PAVEMENT, REMOVE (CONCRETE, ASPHALT, BRICK, SIDEWALK, RAMPS)	CURB or CURB AND GUTTER, REMOVE			EXCAVATION FOR BOLLARD FOOTERS	REINFORCING STEEL, GRADE 60,	CONCRETE, CLASS B, FOR FOOTER	BOLLARD SLEEVE, INSTALL (MATERIAL PROVIDED BY OWNER)	LINE, YELLOW, 4", THERMOPLASTIC	LINE, WHITE, 4", THERMOPLASTIC	LINE, WHITE, 6", THERMOPLASTIC	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK, WHITE, 24"	TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24"	HANDICAPPED SYMBOL, BLUE, THERMOPLASTIC	
		SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	EACH	EACH	EACH	SYS	LFT	CYS	SYS	CYS	LBS	CYS	EACH	LFT	LFT	LFT	LFT	LFT	EACH	
Walnut & Kirkwood	SE Corner								15.2	1.8		16.0				15.2	16.0													
	NE Corner								15.2	1.8		16.0				15.2	16.0													
	In Intersection	19.2	0.0	8.6		19.2	0.0	27.8			8.6		0	0	0	8.6		0.3	0.9											
	E Crosswalk				27.6						27.6					33.8		0.9	2.8	6.2	681.3	6.2	5.0							
Walnut to Washington	Between Crosswalks	1181.6	0.0	11.0		1181.6	0.0	1192.6			11.0	0.0	4	4	3	11.0	0.0	0.4	1.1					554.0	41.0		0.0	24.0	0.0	
Washington & Kirkwood	W Crosswalk				27.7						27.7					33.9		0.9	2.8	6.2	681.3	6.2	5.0							
	In Intersection	106.6	0.0	52.4		106.6	0.0	159.0			52.4		1	4	0	52.4		1.7	5.2											
	E Crosswalk				27.9						27.9					34.1		0.9	2.8	6.2	681.3	6.2	5.0							
	N Leg & Crosswalk	16.1		0.0	27.0	16.1		16.1			27.0		0	0	0	32.4		0.9	2.7	5.4	545.0	5.4	4.0	0.0	0.0	4.0		24.0	0.0	
	S Leg and Crosswalk	0.0		0.0	28.3	0.0		0.0			28.3		0	0	0	33.9		0.9	2.8	5.6	545.0	5.6	4.0	0.0	0.0	24.0		0.0	0.0	
	NW Corner								16.1	3.6		17.0				16.1	17.0													
	SW Corner								16.1	3.6		17.0				16.1	17.0													
	NE Corner								15.1	3.6		16.0				15.1	16.0													
SE Corner								15.1	3.6		16.0				15.1	16.0														
Washington to Lincoln	Between Crosswalks	986.6	356.7	40.6		1343.3	356.7	1383.9			40.6	0.0	1	7	5	40.6	0.0	1.4	4.1					560.0	102.0	0.0	0.0	24.0	1.0	
Lincoln & Kirkwood	W Crosswalk				32.0						32.0					38.7		1.1	3.2	6.7	817.6	6.7	6.0							
	In Intersection	146.1	0.0	81.7		146.1	0.0	227.8			81.7		0	2	0	81.7		2.7	8.2											
	E Crosswalk				37.1						37.1					37.1		1.2	3.7	7.6	953.8	7.6	7.0							
	N Leg & Crosswalk	24.1		9.7	33.8	24.1		33.8			43.5		0	3	3	43.5		1.5	4.4	6.4	817.6	6.4	6.0	0.0	0.0	0.0		0.0	0.0	
	S Leg and Crosswalk	19.0		15.9	32.2	19.0		34.9			48.1		0	0	0	48.1		1.6	4.8	6.4	681.3	6.4	5.0	0.0	0.0	0.0		28.0	0.0	
	NW Corner								15.1	3.6		16.0				15.1	16.0													
	NE Corner								15.1	3.6		16.0				15.1	16.0													
	SE Corner								15.1	3.6		16.0				15.1	16.0													
Lincoln to Grant	Between Crosswalks	1286.0	296.0	118.8		1582.0	296.0	1700.8			118.8	0.0	3	7	4	118.8	0.0	4.0	11.9					582.0	84.0	0.0	0.0	32.0	1.0	
Grant & Kirkwood	W Crosswalk				35.4						35.4					35.4		1.2	3.5	8.0	953.8	8.0	7.0							
	In Intersection	197.9	0.0	27.7		197.9	0.0	225.6			27.7		1	2	0	27.7		0.9	2.8											
	E Crosswalk				32.7						32.7		2	2	0	32.7		1.1	3.3	6.8	817.6	6.8	6.0							
	N Leg & Crosswalk	0.0		17.4	26.7	0.0		17.4			44.1		0	1	1	44.1		1.5	4.4	5.2	545.0	5.2	4.0	0.0	0.0	0.0		0.0	0.0	
	S Leg and Crosswalk	0.0		24.6	27.0	0.0		24.6			51.6		0	1	0	51.6		1.7	5.2	5.5	545.0	5.5	4.0	0.0	0.0	0.0		0.0	0.0	
	NW Corner								15.1	3.6		16.0				15.1	16.0													
	SW Corner								15.1	3.6		16.0				15.1	16.0													
	NE Corner								16.9	3.6		16.0				16.9	16.0													
SE Corner								16.2	3.6		17.0				16.2	17.0														
Grant to Dunn	Between Crosswalks	1916.6	0.0	14.2		1916.6	0.0	1930.8			14.2	0.0	4	15	8	14.2	0.0	0.5	1.4					696.0	130.0	0.0	64.0	32.0	1.0	
Alley	N Crosswalk				14.0					14.0		0	0	0	14.0		0.5	1.4	0.0	0.0	0.0	0.0								
Alley	S Crosswalk				16.7					16.7		0	1	1	16.7		0.6	1.7	0.0	0.0	0.0	0.0								
Alley	NW Corner								9.5	2.0		10.0				9.5	10.0													
Alley	SW Corner								9.5	1.7		9.5				9.5	9.5													
Alley	NE Corner								19.1	3.8		17.0				19.1	17.0													
Alley	SE Corner								15.1	3.5		17.0				15.1	17.0													
Dunn & Kirkwood	W Crosswalk				35.6						35.6					35.6		1.2	3.6	7.8	953.8	7.8	7.0							
	In Intersection	214.9	0.0	29.7		214.9	0.0	244.6			29.7		1	5	2	29.7		1.0	3.0											
	E Crosswalk				34.2						34.2					34.2		1.1	3.4	7.7	953.8	7.7	7.0							
	N Leg & Crosswalk	13.2		7.2	34.2	13.2		20.4			41.4		0	0	0	41.4		1.4	4.1	6.8	817.6	6.8	6.0	0.0	0.0	0.0		0.0	0.0	
	S Leg and Crosswalk	12.9		6.2	32.5	12.9		19.1			38.7		1	1	1	38.7		1.3	3.9	6.2	817.6	6.2	6.0	0.0	0.0	0.0		0.0	0.0	
	NW Corner								17.9	3.6		17.0				17.9	17.0													
	SW Corner								16.9	3.6		16.0				16.9	16.0													
	NE Corner								17.9	3.6		17.0				17.9	17.0													
SE Corner								16.9	3.6		16.0				16.9	16.0														
Dunn to Indiana	Between Crosswalks	1258.4	0.0	45.8		1258.4	0.0	1304.2			45.8	5.0	2	6	4	45.8	5.0	1.5	4.6					604.0	77.0	0.0	0.0	31.0	1.0	
Indiana & Kirkwood	NW Corner								11.7	1.9		24.0				11.7	24.0													
	SW Corner								11.7	1.9		24.0				11.7	24.0													
	In Intersection	12.5	0.0	0.0		12.5	0.0	12.5			0.0		2	0	0	0.0		0.0	0.0											
	W Crosswalk				47.5																									

Michael J. Tavis
REGISTERED
No. 10200108
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

Michael J. Tavis
DESIGN ENGINEER

4-12-2019
DATE

DESIGNED: MT

DRAWN: SCS

CHECKED: BR

CHECKED: BR

CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

MISCELLANEOUS SUMMARY
OF QUANTITIES TABLE

HORIZONTAL SCALE
N/A