

PITTSFIELD CHARTER TOWNSHIP



2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

BID SET DECEMBER, 2022 PROJECT NUMBER: 2075001316



ROAD	YEAR	ADT	POSTED SPEED
TEXTILE	2019	5019	55 (UNPOSTED)

UTILITY CONTACTS

Name: PITTSFIELD CHARTER TOWNSHIP Name: COMCAST Addr: 6201 WEST MICHIGAN AVE Addr: 24744 EUREKA RD ANN ARBOR, MI 48108 TAYLOR, MI 48180 Phone: 734-822-2110 Phone: 248-809-2717 Email: utilities@pittsfield-mi.go Email: chris cyr@CABLE.COMCAST.COM Contact: B. WEIRICH Contact: CHRIS CYR Name: WASHTENAW COUNTY ROAD COMMISSION Name: DTE ENERGY: ELECTRIC Addr: 555 N. ZEEB RD Addr: 8001 HAGGERTY RD ANN ARBOR, MI 48103 BELLEVILLE, MI 48111 Phone: 734-397-4447 Phone: 734-327-6679 Email: anthony.ignasiak@dteenergy.com Email: mccullochm@wcroads.org Contact: MARK McCULLOCH Contact: ANTHONY IGNASIAK Name: PITTSFIELD TOWNSHIP PARKS AND RECREATION Name: DTE ENERGY: GAS Addr: 701 ELLSWORTH RD Addr: 17150 ALLEN RD MELVINDALE MI 48122 ANN ARBOR, MI 48108 Phone: 734-822-2114 Phone: 313-389-7992 Email: wader@pittsfield-mi.gov Email: basel.djazmati@dteenergy.com Contact: BASEL DJAZMATI P.E., PMP Senior Capital Project Manager

Name: ATT
Addr: 550 S MAPLE RD
ANN ARBOR, MI 48103
Phone: 734-516-3173
Email: gc2798@att.com
Contact: GARY CLINTON

DRAWING INDEX:

DWG	SHEET	TITLE	
C-01	01	COVER SHEET	
C-02	02	GENERAL NOTES, LEGEND, SYMBOLS AND ABBREVIATIONS	
C-03	03	TYPICAL CROSS SECTIONS AND DETAILS	
C-04	04	EXISTING CONDITIONS, DEMOLITION AND SESC PLAN	
C-05	05	TEMPORARY TRAFFIC CONTROL PLAN	
C-06	06	CROSSING CONSTRUCTION PLAN	
C-07	07	DETAIL GRADING PLAN	
C-08	80	WCRC STANDARD DETAILS	
C-09	09	MDOT STANDARD DETAILS	

Name: WASHTENAW COUNTY WATERRESOURCES COMMISSION

Addr: 705 N. ZEEB RD

Phone: 734-222-6860

Email: millers@washtenaw.or Contact: SCOTT MILLER, PE

ANN ARBOR, MI 48103

CONSTRUCTION OPERATIONS MUST BE REPLACED WITH POLYUREA FOR THE LONGITUDINAL, LANE LINES.

4. ALL SIGNS MATERIALS AND SUPPORTS MUST MEET NCHRP-350 CRASH WORTHY REQUIREMENTS.

5. THERE MUST BE NO HAULING OF MATERIALS INCLUDING TRUCKS ENTERING AND EXITING IN OR OUT OF THE SITE (WORK ZONE) BETWEEN THE HOURS OF 6:00 A.M. TO 9:00 A.M. AND 2:00 P.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY.

6. TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES. SEE SHEET C-05 FOR MAINTENANCE OF TRAFFIC DETAILS.

TRAFFIC SIGN AND SIGNAL NOTES

- 1. CONTACT WASHTENAW COUNTY ROAD COMMISSION AND PITTSFIELD TOWNSHIP SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 2. ALL SIGNS SHALL BE INSTALLED, REMOVED AND/OR SALVAGED ACCORDING TO THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION".
- 3. ALL SIGNS ON THE PLANS THAT DO NOT HAVE A RECOMMENDATION ARE TO BE RETAINED.
- 4. ANY PERMANENT SIGNS REQUIRING RELOCATION DUE TO CONTRACTOR OPERATIONS SHALL BE SALVAGED AND RESET BY THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE ENGINEER. SIGNS AND POSTS DAMAGED DURING THE REMOVAL AND STORAGE OPERATIONS SHALL BE REPLACED WITH NEW SIGNS AND POSTS. THE COST OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR.
- 5. WHERE PROPOSED ON PLAN SHEETS, SIGNS AND STRUCTURES SHALL BE FABRICATED IN ACCORDANCE TO TYPICAL PLANS, STANDARDS, AND/OR DETAILS AT THE LOCATIONS DESCRIBED, ELSE AS SHOWN ON PLAN SHEETS. WHEN A SIGN IS PROPOSED LESS THAN 50 FEET FROM AN EXISTING SIGN, OR WHEN TWO SIGNS ARE PROPOSED WITHIN 50 FEET OF EACH OTHER, THE LATERAL OFFSET OF THE LEADING SIGN SHALL BE NO LESS THAN THE LATERAL OFFSET OF THE TRAILING SIGN PLUS ONE-HALF THE WIDTH OF THE TRAILING SIGN. THE COST OF RELOCATING AN EXISTING SIGN TO COMPLY WITH THIS STANDARD SHALL BE INCLUDED IN THE COST TO INSTALL THE PROPOSED SIGN.
- 6. SIGN LAYOUTS SHALL BE ACCORDING TO THE CURRENT ENGLISH EDITION OF THE "STANDARD HIGHWAY SIGNS" MANUAL OR AS DETAILED ON THE PLANS.
- 7. HANDLING AND INSTALLATION OF ALL SIGNS SHALL CONFORM WITH THE SHEETING MANUFACTURER'S SPECIFICATIONS AND GUIDELINES. SIGNS THAT HAVE WRINKLED OR TWISTED SHEETING MAY BE REJECTED.
- 8. WHEN ATTACHING SIGNS TO SUPPORTS, TIGHTEN THE NUT, NOT THE BOLT HEAD.
- 9. NYLON WASHERS SHALL BE PLACED BETWEEN THE STEEL WASHER AND THE SIGN FACE SHEETING. THE NYLON WASHERS ARE TO BE CONSIDERED PART OF THE ATTACHING DEVICES AND HARDWARE. NYLON WASHERS SHALL HAVE A 3/8 INCH INNER DIAMETER, A 7/8 OUTER DIAMETER AND A 1/18 INCH THICKNESS.
- 10. ALL ACTUAL HEIGHTS OF NEW OVERHEAD SIGN STRUCTURES MUST BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER PRIOR TO END SUPPORT STRUCTURES BEING FABRICATED.
- 11. TURF ESTABLISHMENT/SLOPE RESTORATION SHALL BE APPLIED TO THE GROUND SURFACE AREAS DISTURBED BY SIGNING OPERATIONS AND CONFORM TO NECESSARY TREATMENTS AND WORKMANSHIP SPECIFIED IN THE CURRENT EDITION OF MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 816.
- 12. ALL TREE TRIMMING REQUIRED TO CLEAR NEW OR SALVAGED STREET LIGHTING AND MAST ARM POLES SHALL BE INCLUDED IN THE PAY ITEM AND NO EXTRA PAYMENT SHALL BE MADE.
- 13. EXISTING O.H. AND T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.
- 14. INSTALL PEDESTALS AND POLES SO AS NOT TO INTERFERE WITH TRAFFIC.
- 15. CONTRACTOR SHALL CONTACT ENGINEER 72 HOURS PRIOR TO POURING FOUNDATIONS IN ORDER TO VERIFY SOIL CONDITION, DEPTH AND DETERMINE IF CASING IS REQUIRED.
- 16. ALL TRAFFIC STREET SIGNS SUCH AS "NO PARKING", "NO STANDING", ETC. SHALL BE TRANSFERRED FROM OLD STD. OR POLE TO NEW STD. OR POLE AT SAME LOCATION OR IN CLOSE PROXIMITY BY THE CONTRACTOR.
- 17. A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL AND 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES AND EXISTING U.G. WATER FACILITIES.
- 18. NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES PLACEMENT OR RRFB ASSEMBLY EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 19. THE CURRENT BASIS OF ACCEPTANCE FOR THIS MATERIAL IS NOW PART OF THE MDOT QPL (QUALIFIED PRODUCTS LIST). THIS CAN BE FOUND IN THE MATERIALS ACCEPTANCE REQUIREMENT TABLE, PUBLISHED IN THE MQAP AND REPEATED FOR CONVENIENCE IN THE MATERIALS SOURCE GUIDE.

GENERAL NOTES

- 1. THIS PROJECT MAY NOT UTILIZE ALL SYMBOLS, NOTES, AND ABBREVIATIONS SHOWN ON THIS SHEET.
- 2. ALL ITEMS INCIDENTAL TO AND/OR REQUIRED TO COMPLETE THE INSTALLATION SHALL BE FURNISHED AND
- 3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTIONS FOR ALL WORK
- 4. ALL MATERIAL AND EQUIPMENT SHALL BE STORED IN SUCH A MANNER TO PREVENT BREAKAGE OR PHYSICAL DAMAGE. STORE EQUIPMENT IN ITS ORIGINAL PACKAGING MATERIALS AND PROVIDE PROTECTIVE COVER TO KEEP OUT RAIN, DIRT, AND FOREIGN OBJECTS.
- 5. ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS, INCLUDING SOIL EROSION AND SEDIMENTATION CONTROL, OF PITTSFIELD TOWNSHIP.
- 6. ALL CONSTRUCTION AND MATERIALS ARE TO COMPLY WITH PITTSFIELD TOWNSHIP AND/OR WASHTENAW COUNTY STANDARDS AS THEIR JURISDICTION MAY APPLY.
- ALL PAVEMENT CONSTRUCTION SHALL IN GENERAL BE PERFORMED PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATION FOR CONSTRUCTION EARTHWORK AND PAVING AND ALSO CONSTRUCTION DETAILS AS SPECIFIED ON THE APPROVED CONSTRUCTION PLANS. DENSITY FOR AGGREGATE BASE TO BE 98% MAXIMUM UNIT WEIGHT AT OPTIMUM MOISTURE CONTENT.
- ALL YARD AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% OF MODIFIED PROCTOR ASTM D-1557, FOR THAT SOIL. BACKFILL SHALL BE BROWN COMPACTABLE MATERIAL FREE OF BLUE CLAY, MARL, ORGANICS OR ANY OTHER DELETERIOUS MATERIAL.
- 9. ALL DISTURBED AREAS TO BE REPLACED WITH A MINIMUM OF 3" OF TOPSOIL AND SEEDED. GRASS SEED: 210LB/ACRE. FERTILIZER: 150LB/ACRE. STRAW MULCH: 3" IN DEPTH, 1.5-2 TON/ACRE. ALL MULCH MUST HAVE A TIE DOWN, SUCH AS TACKIFIER, NET BINDING, ETC. HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES EXCEEDING
- 10. PAVEMENT REMOVALS SHALL EXTEND TO THE LIMITS SHOWN ON THE PLANS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE REMOVAL OF MORE OF LESS PAVEMENT THAN SHOWN ON THE PLANS IS NOT ACCEPTABLE UNLESS OTHERWISE APPROVED BY THE ENGINEER. TEMPORARY SHEETING AND SHORING MUST BE USED IN AREAS WHERE WORK IS IN CLOSE PROXIMITY TO PAVEMENT OR UTILITIES NOT INDICATED FOR REMOVAL. A PRE-CONSTRUCTION WALKTHROUGH WILL BE NECESSARY WITH OWNER, ENGINEER AND CONTRACTOR PRIOR TO
- 11. PAYMENT FOR SAWCUTTING OF PAVEMENT AND DRIVEWAY REMOVALS IS INCLUDED WITH THE PAVEMENT REMOVAL PAY ITEM.
- 12. REPLACEMENT OF MAILBOXES, SIGNS, FENCES (ALL TYPES), LIGHT POLES, BRICK PAVERS, LANDSCAPE ITEMS, RETAINING WALLS, BUSHES, SHRUBS, TREES UNDER 6" DBH AND ALL OTHER MISCELLANEOUS ITEMS NOT EXPLICITLY NOTED ON THE PLANS, BUT REMOVED BY THE CONTRACTOR DURING WORK OPERATIONS, IS REQUIRED. THIS WORK IS TO BE PAID FOR UNDER THE TURF ESTABLISHMENT PAY ITEM.
- 13. AS NOTED ABOVE, CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AT A MINIMUM TO THEIR ORIGINAL CONDITION AS DEPICTED IN THE PRE-CONSTRUCTION AUDIO/VIDEO FILE.
- 14. ALL GRADES AND DRAINAGE PATTERNS SHALL BE RESTORED TO THE EXISTING CONDITION OR MODIFIED ONLY TO
- 15. THE CONTRACTOR SHALL FURNISH AND INSTALL SILT FENCE, TREE FENCE AND INLET FILTERS AS DIRECTED BY THE ENGINEER AND/OR SPECIFIED ON THE DRAWINGS PRIOR TO THE START OF ANY EXCAVATION. REFER TO DRAWING 04 FOR SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS.
- 16. THE CONTRACTOR SHALL PROTECT ALL TREES NOT INDICATED FOR REMOVAL. NO TREES ARE TO BE REMOVED WITHOUT EXPRESSED APPROVAL OF THE PROPERTY OWNER, OR THE GOVERNMENTAL BODY HAVING JURISDICTION THEREOF, AND OF THE ENGINEER. CONTRACTOR SHALL PERFORM A WALK THROUGH WITH THE ENGINEER TO REVIEW ALL TREES DESIGNATED FOR REMOVAL PRIOR TO CONSTRUCTION.
- 17. CONTRACTOR SHALL TAKE CARE WHEN WORKING NEAR EXISTING UTILITY POLES. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT APPROVED BY THE UTILITY COMPANY HAVING JURISDICTION FOR UTILITY POLES FOUND TO BE INTERFERING WITH CONSTRUCTION. TEMPORARY UTILITY POLE SUPPORTS SHALL BE PAID FOR UNDER UTILITY EXPLORATION AND COORDINATION PAY ITEM.
- 18. BENCHMARKS AS SHOWN ON THE PLAN SHEETS ARE BASED ON NAVD88 DATUM.
- 19. NO MATERIALS CAN BE STORED IN THE ROAD RIGHTS-OF-WAY.
- 20. ALL ITEMS ARE TO BE CONSTRUCTED ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD PLANS, UNLESS OTHERWISE INDICATED.
- 21. EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP FOR ALL IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND SUPPLEMENTAL SPECIFICATIONS.
- 22. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMATION WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- 23. CONTRACTOR SHALL VERIFY EXISTING SIDEWALK GRADES ON NORTH AND SOUTH SIDE OF ROAD. CONTRACTOR SHALL NOTIFY ENGINEER IF GRADES DIFFER FROM PLAN GRADES.
- 24. SHOP DRAWINGS AND MATERIAL CERTIFICATES. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL FURNISH MATERIAL SOURCE LISTS AND CERTIFICATIONS TO THE PROJECT ENGINEER VERIFYING THAT ALL MATERIALS USED ON THE PROJECT ARE IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND WASHTENAW COUNTY ROAD COMMISSION SPECIFICATIONS. SHOP DRAWINGS AND/OR CATALOG CUTS SHALL BE REQUIRED FOR MAJOR MATERIALS.

THE FOLLOWING ITEMS OF WORK ARE NOT DETAILED ON THE PLAN, PROFILE OR DETAIL SHEETS:

#	DESCRIPTION	QNTY	UNIT
1027051	_AUDIO VIDEO FILE, SPECIAL	1	LSUM
1100001	MOBILIZATION, MAX 10%	1	LSUM
2057021	_SUBGRADE UNDERCUTTING, MODIFIED	30	CYD
2090001	PROJECT CLEANUP	1	LSUM
8120012	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED LIGHTED, FURN	5	EA
8120013	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED LIGHTED, OPER	5	EA
8120026	PEDESTRIAN TYPE II BARRICADE, TEMP	3	EA
8120035	CHANNELIZING DEVICE, 42 INCH, FLOURESCENT, FURN	50	EΑ
8120036	CHANNELIZING DEVICE, 42 INCH, FLOURESCENT, OPER	50	EA
8120140	LIGHTED ARROW, TYPE C, FURN	1	EA
8120141	LIGHTED ARROW, TYPE C, OPER	1	EA
8120170	MINOR TRAF DEVICES	1	LSUM
8120350	SIGN TYPE B, TEMP, PRISMATIC, FURN	250	SFT
8120351	SIGN TYPE B, TEMP, PRISMATIC, OPER	250	SFT
8120370	TRAF REGULATOR CONTROL	1	LSUM
8167011	_TURF ESTABLISHMENT, PERFORMANCE	500	SYD

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
835	EXIST. CONTOUR		EXIST. CURB AND GUTTER
835	PROP. CONTOUR		PROP. CURB AND GUTTER
× 854.6	EXIST. SPOT ELEVATION		CENTERLINE OF DITCH
× 854.6	PROP. SPOT ELEVATION		EDGE OF WATER
T/C	TOP OF CURB		EDGE OF WETLAND
T/P	TOP OF PAVEMENT	X	EXISTING FENCE
G	GUTTER	×	PROPOSED FENCE
12"ST	EXIST. STORM SEWER	т——т	TREE PROTECTION FENCE
12"ST	PROP. STORM SEWER		SILT FENCE
D S E	EXIST. MANHOLE		CLEARING LIMITS
00	PROP. MANHOLE	0000.	EXIST. GUARDRAIL
	PROP. EDGE DRAIN	0000.	PROP. GUARDRAIL
	EXIST. CATCH BASIN/INLET	P	PROPERTY LINE
	PROP. CATCH BASIN/INLET		CENTERLINE
	CULVERT	<u> </u>	EXIST. SIGN
	INLET FILTER	1	PROP. SIGN
<u> </u>	PROP. AIR RELEASE VALVE		ENCLOSED TRASH AREA
			
800	PROP. CLEANOUT		DRAINAGE DIRECTION
●C.O.	PROP. CLEANOUT	R	SIDEWALK RAMP
8"5	EXIST. SANITARY SEWER	<u>&</u>	BARRIER FREE PARKING
— 18" SS ———	PROP. SANITARY SEWER	F.F.	FINISH FLOOR ELEV.
8''W ———	EXIST. WATER MAIN	F.G.	FINISH GRADE ELEV.
8"V	PROP. WATER MAIN	B.F.	BASEMENT FLOOR ELEV.
©	EXIST. HYDRANT	G.F.	GARAGE FLOOR ELEV.
©	PROP. HYDRANT	•	SECTION CORNER
P.I.V	EXIST. POST INDICATOR VALVE	\wedge	CONTROL POINT
	EXIST. GATE VALVE AND BOX/STOP BOX	0	FOUND IRON PIPE
	PROP. CURB STOP BOX	os	SET IRON PIPE
	EXIST. GATE VALVE AND WELL	<u> </u>	FOUND CONCRETE MONUMENT
	PROP. GATE VALVE AND WELL	 ⊚ s	SET CONCRETE MONUMENT
	PROP. REDUCER	× F	FOUND PK NAIL
	PROP. END CAP	×S	SET PK NAIL
-DHP	EXIST. OVERHEAD ELECTRIC	× F	FOUND LEADED CHISEL HOLE
-DIP	PROP. OVERHEAD ELECTRIC	× S	SET LEADED CHISEL HOLE
-UGE	EXIST. UNDERGROUND ELECTRIC	○ F-RR	FOUND REROD
	PROP. UNDERGROUND ELECTRIC		APPROX. LOCATION OF SOIL BORING
-UGE		+	
\	EXIST. LIGHT POLE	+	APPROX. LOCATION OF MONITORING WELL
*	PROP. LIGHT POLE	<u>•</u>	APPROX. LOCATION OF PENETRATION TEST
o U.P.	EXIST. UTILITY POLE		EXIST. DECIDUOUS TREE
C—	GUY WIRE	£3	EXIST. EVERGREEN TREE
е	EXIST. ELECTRIC TRANSFORMER	₿	EXIST. SHRUB
Ē	PROP. ELECTRIC TRANSFORMER	~~~~~~	EXIST. TREE OR BRUSH LIMIT
-онт	EXIST. OVERHEAD TELEPHONE	፟፠	TREE TO BE REMOVED
-DHT	PROP. OVERHEAD TELEPHONE		REMOVE AND REPLACE
—UGT ———	EXIST. UNDERGROUND TELEPHONE		INCIVIO VE AND INCELACE
_UGT	PROP. UNDERGROUND TELEPHONE		DITUMINOUS DAVIENTA
2"G	EXIST. GAS		BITUMINOUS PAVEMENT
2"G	PROP. GAS		ODAVEL DAVENES
MB	EXIST. MAILBOX		GRAVEL PAVEMENT
 	EXIST. GAS RISER		
<u>U</u>	EXIST. TELEPHONE RISER		CONCRETE PAVEMENT
	COMPACTED SAND BACKFILL		BRICK PAVERS
terreligial weekst			
		×	MAST ARM

LEGEND

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MICHIGAN

DEPARTMENT OF TRANSPORTATION 2020 STANDARD PLANS GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

	MDOT STANDARD PLANS	SHEET NO.	TITLE (TRAFFIC SIGNAL)
SHEET NO.	TITLE (ROAD)	SIG-070-A	PEDESTAL FOUNDATIONS
R-1-G* R-15-K R-28-J* R-29-I R-30-G R-80-E	DRAINAGE STRUCTURES COVER K SIDEWALK RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALKS CONCRETE CURB AND CONCRETE CURB & GUTTER GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS AND SEWER BULKHEADS	SIG-100-A SIG-110-A SIG-211-A SIG-240-A SIG-400-A	CONTROLLER CABINET MOUNTED ON STEEL WOOD POLES POLE MOUNTED TS CONTROLLER CABINET UNDERGROUND SERVICE/DISCONNECT WO HANDHOLE - PRECAST, POLYMER CONCRETE PEDESTRIAN PUSH BUTTON DETAILS
R-82-D R-83-C R-96-E	BEDDING AND FILLING AROUND PIPE CULVERTS UTILITY TRENCHES SOIL EROSION & SEDIMENTATION CONTROL	SHEET NO. WZD-100-A* WZD-125-E*	TITLE GROUND DRIVEN SIGN SUPPORTS FOR TEMP TEMPORARY TRAFFIC CONTROL DEVICES
R-100-H	MEASURES SEEDING AND TREE PLANTING		WCRC STANDARD PLANS
SHEET NO.	TITLE (PAVEMENT MARKINGS)	SHEET NO.	TITLE (ROAD)
PAVE-P45-C	INTERSECTION, STOP BAR & CROSSWALK MARKINGS	WASH-19	RECTANGULAR RAPID FLASHING BEACON
SHEET NO.	TITLE (SIGNING)		
SIGN-120-E SIGN-100-G SIGN-200-D	ROADSIDE SIGN LOCATIONS & SUPPORT SPACING STANDARD SIGN INSTALLATIONS STEEL POSTS		
CICNIZIOD			

MISCELLANEOUS SIGN CONNECTION DETAILS

SIGN-740-B

SHEET NO.	TITLE (TRAFFIC SIGNAL)
SIG-070-A	PEDESTAL FOUNDATIONS
SIG-100-A	CONTROLLER CABINET MOUNTED ON STEEL OR WOOD POLES
SIG-110-A	POLE MOUNTED TS CONTROLLER CABINET
SIG-211-A	UNDERGROUND SERVICE/DISCONNECT WOOD POLES
SIG-240-A	HANDHOLE - PRECAST, POLYMER CONCRETE
SIG-400-A	PEDESTRIAN PUSH BUTTON DETAILS
SHEET NO.	TITLE
	TITLE GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS
SHEET NO. WZD-100-A* WZD-125-E*	
WZD-100-A*	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS TEMPORARY TRAFFIC CONTROL DEVICES
WZD-100-A*	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS

Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Notes

CAM A PERMIT PLAN Appd YYYY.MM.DD Issued
 BWA
 BWA
 CAM
 2022.11.18

 Dwn.
 Dsgn.
 Chkd.
 YYYY.MM.DD
 File Name: 001316C-02

Permit/Seal

Client/Project Logo



Pittsfield Township, MI

PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

GENERAL NOTES, LEGEND, SYMBOLS AND ABBREVIATIONS

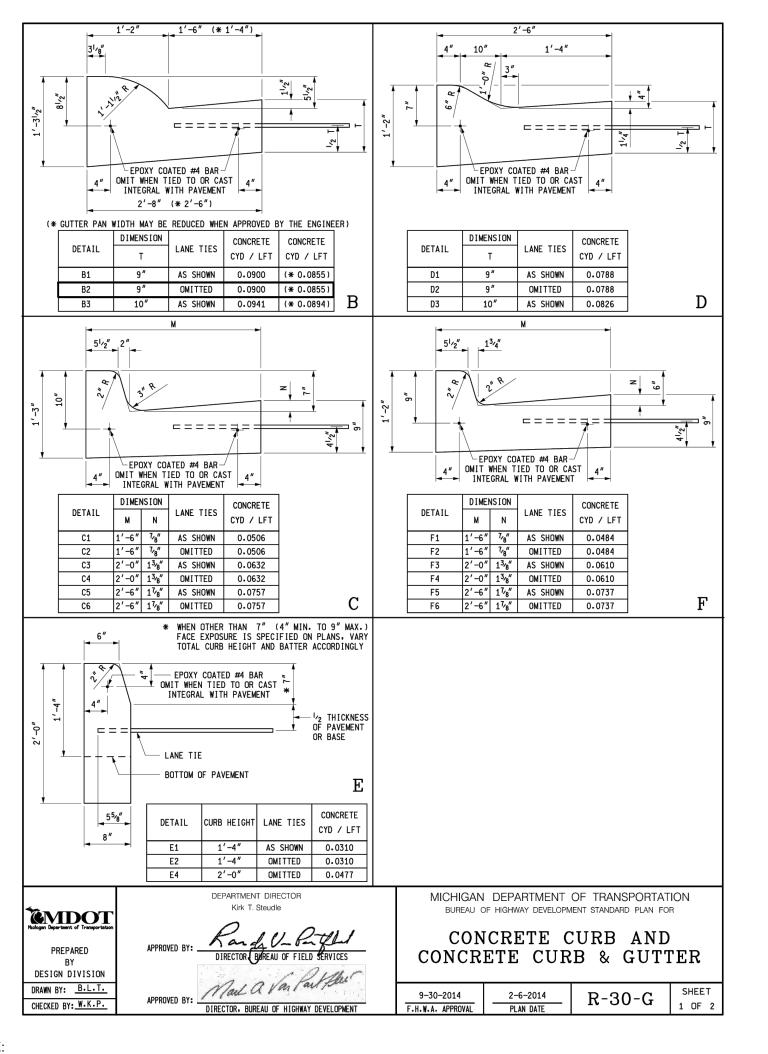
Project No. 2075001316

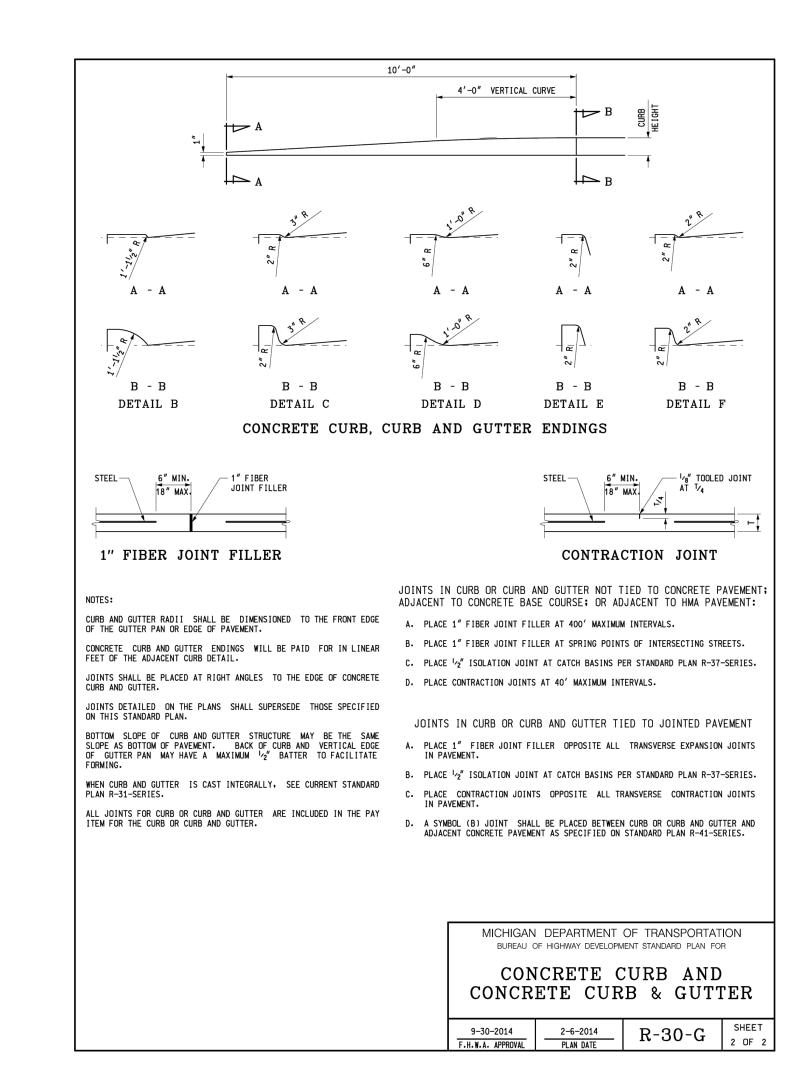
Scale Revision Sheet Drawing No.

NOTE:

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION

Call before you dig.





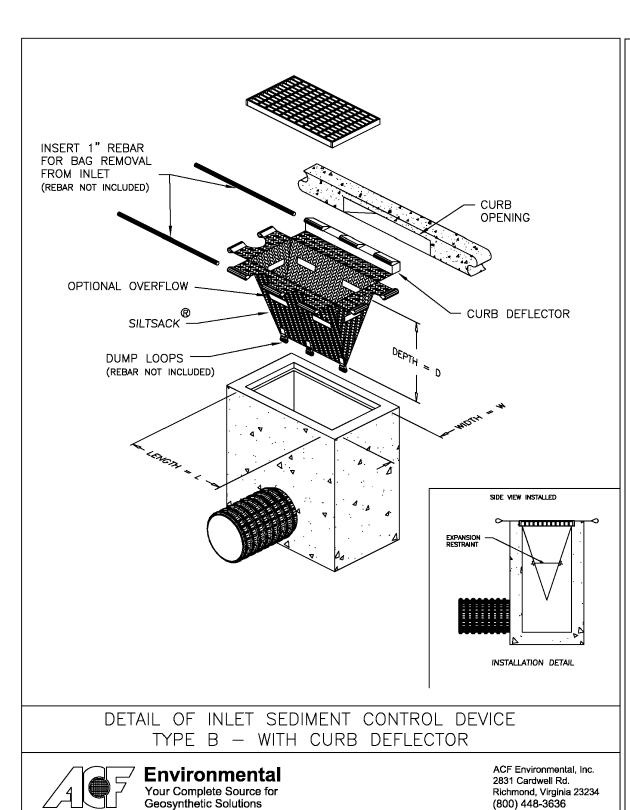
1. HMA HAND PATCHING SHALL BE ONE COURSE 4EML, YIELD 220 LBS/SYD

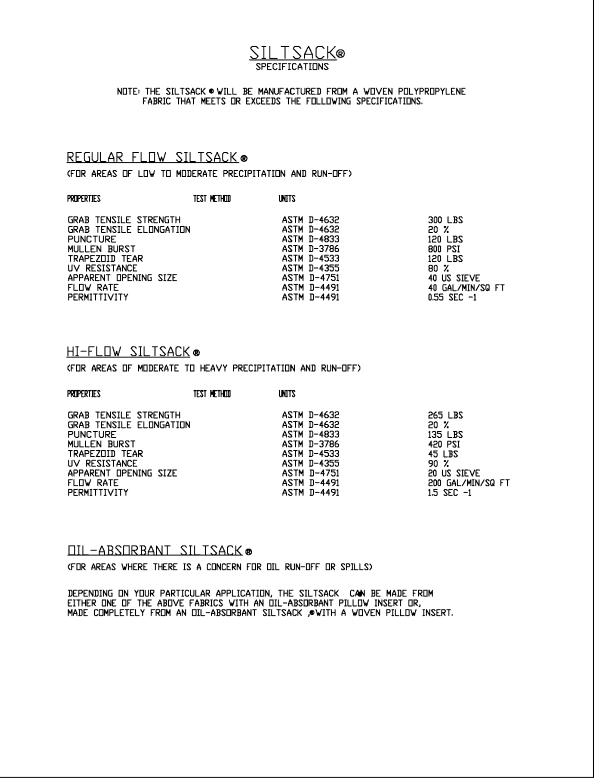
2. ASPHALT BINDER SHALL MEET MDOT PG 64-28. 3. BOND COAT SS-1h SHALL BE APPLIED AT A RATE OF 0.10 GAL/SYD

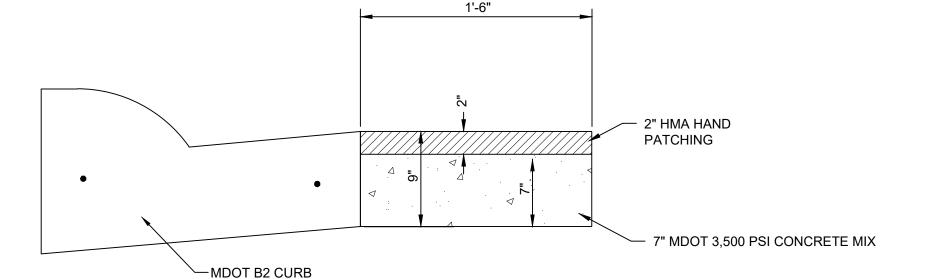
BETWEEN CONCRETE AND HAND PATCHING.

MDOT B2 CURB & GUTTER SECTION

SCALE: NONE





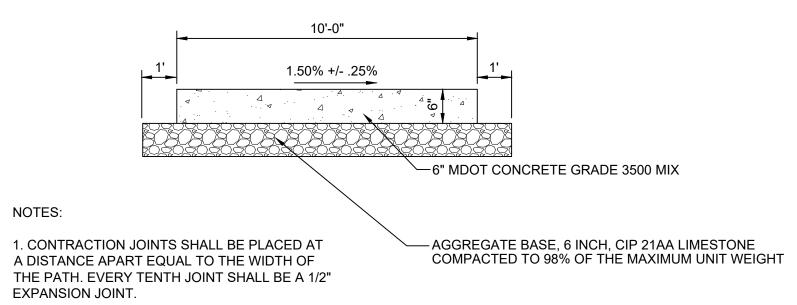


1. HMA HAND PATCHING SHALL BE ONE COURSE 4EML, YIELD 220 LBS/SYD 2. ASPHALT BINDER SHALL MEET MDOT PG 64-28.

3. BOND COAT SS-1h SHALL BE APPLIED AT A RATE OF 0.10 GAL/SYD BETWEEN CONCRETE AND HAND PATCHING.

BITUMINOUS HANDPATCH PAVEMENT SECTION

SCALE: NONE

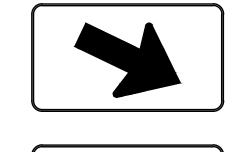


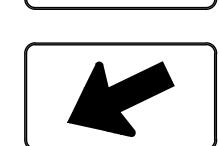
TYPICAL PATHWAY REPLACEMENT SECTION

5'-0" 1.50% +/- .25% -6" MDOT CONCRETE GRADE 3500 MIX 1. CONTRACTION JOINTS SHALL BE PLACED AT -SUBBASE, 4 INCH, CIP, CL II A DISTANCE APART EQUAL TO THE WIDTH OF THE SIDEWALK. EVERY TENTH JOINT SHALL BE A 1/2" EXPANSION JOINT.

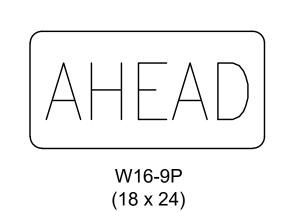
TYPICAL CONCRETE CURB RAMP SECTION

TURN ON WARNING





W16-7p (L&R) (18 x 24)



R10-25

(9 x 12)

2. SUBBASE SHALL BE INCLUDED WITH THE

CURB RAMP PAY ITEM.

This Signal Does Not Stop Traffic PROCEED WITH CAUTION

W11-2

 (30×30)

SPECIAL SIGN (12 x 18)

STANDARD SIGN DETAILS

Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

 CAM
 2022.12.07

 CAM
 2022.12.01

 Appd
 YYYY.MM.DD
 A PERMIT PLAN Issued BWA BWA CAM 2022.11.18

Dwn. Dsgn. Chkd. YYYY.MM.DD File Name: 001316C-03

Permit/Seal

Client/Project Logo

Pittsfield Township, MI

PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

TYPICAL CROSS SECTIONS AND DETAILS

Scale

Drawing No.

Project No. 2075001316 Revision Sheet

Call before you dig. NOTE: THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF THE CONTRACTOR SHALL BE RESPONSIBLE FOR

CONTACTING MISS DIG PRIOR TO CONSTRUCTION

Know what's below.

SILT SACK SCALE: NONE

30 FT. 2040021 TEXTILE ROAD 10 FT. 2040021 L -12-27-100-005 WASHTENAW COUNTY 200 N MAIN ANN ARBOR 48104 L -12-27-100-020 PITTSFIELD CHARTER TOWNSHIP 6201 W MICHIGAN AVE ANN ARBOR 48108 22 SYD 2040055
 QNTY
 UNIT

 40
 FT

 9
 SYD
 # 2040021 CURB, REM 2040050 PAVT, REM DESCRIPTION 2040055SIDEWALK, REM22SYD2080036EROSION CONTROL, SILT FENCE50FT2087050_EROSION CONTROL, INLET PROTECTION, FABRIC DROP, MODIFIED4EA



Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Note

1. CURB SHALL BE REMOVED TO CLOSEST JOINT.

2. SAWCUT ALL PAVEMENT REMOVALS, TO BE INCLUDED IN PAVT, REM PAY ITEM.

Permit/Seal



Client/Project
PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS
PITTSFIELD GLEN MIDBLOCK CROSSING

Pittsfield Township, Ml

Title

EXISTING CONDITIONS, DEMOLITION AND SESC PLAN

Project No.

2075001316

Revision Sheet

Scale 20' 40

Drawing No.

.2075\active\2075001316\pittsfield glen midblock xing_ta 22.12.13 8:42:01 AM

Know what's below.

Call before you dig.

NOTE:

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

UPSTREAM TAPERS

MERGING TAPER

SHIFTING TAPER

DOWNSTREAM TAPERS

(USE IS OPTIONAL)

TWO-WAY TRAFFIC TAPER

MINIMUM MERGING TAPER LENGTH "L" (FEET)											
OFFSET		POSTED SPEED LIMIT, MPH (PRIOR TO WORK AREA)									
FEET	25	30	35	40	45	50	55	60	65	70	
1	10	15	20	27	45	50	55	60	65	70	
2	21	30	41	53	90	100	110	120	130	140	
3	31	45	61	80	135	150	165	180	195	210	
4	42	60	82	107	180	200	220	240	260	280	FEET
5	52	75	102	133	225	250	275	300	325	350	Z
6	63	90	123	160	270	300	330	360	390	420	
7	73	105	143	187	315	350	385	420	455	490]"
8	83	120	163	213	360	400	440	480	520	560	ᆂ
9	94	135	184	240	405	450	495	540	585	630	LENGTH
10	104	150	204	267	450	500	550	600	650	700	
11	115	165	225	293	495	550	605	660	715	770	<u>~</u>
12	125	180	245	320	540	600	660	720	780	840	TAPER
13	135	195	266	347	585	650	715	780	845	910	<u> </u>
14	146	210	286	374	630	700	770	840	910	980	
15	157	225	307	400	675	750	825	900	975	1050	

THE FORMULAS FOR THE <u>MINIMUM LENGTH</u> OF A TYPES OF TAPERS MERGING TAPER IN DERIVING THE "L" VALUES SHOWN IN THE ABOVE TABLES ARE AS FOLLOWS:

"L" = $\frac{W \times S^2}{V}$ WHERE POSTED SPEED PRIOR TO THE WORK AREA IS 40 MPH OR LESS SHOULDER TAPER " = S x W WHERE POSTED SPEED PRIOR TO THE WORK AREA IS 45 MPH OR GREATER

= MINIMUM LENGTH OF MERGING TAPER

= POSTED SPEED LIMIT IN MPH PRIOR TO WORK AREA W = WIDTH OF OFFSET

> **EMDOT** TRAFFIC AND SAFETY | TABLES FOR "L", "D" AND "B" VALUES MAINTAINING TRAFFIC TYPICAL

TAPER LENGTH

L - MINIMUM

1/2 L - MINIMUM

1/3 L - MINIMUM

100 ′ - MAXIMUM

M0020a

100 ' - MINIMUM

(PER LANE

DISTANCE BETWEEN TRAFFIC CONTROL DEVICES "D" AND LENGTH OF LONGITUDINAL BUFFER SPACE ON "WHERE WORKERS PRESENT" SEQUENCES

"D"		Р	OSTED S	SPEED L	IMIT,	MPH (PF	RIOR TO	WORK	AREA)	
DISTANCES	25	30	35	40	45	50	55	60	65	70
D (FEET)	250	300	350	400	450	500	550	600	650	700

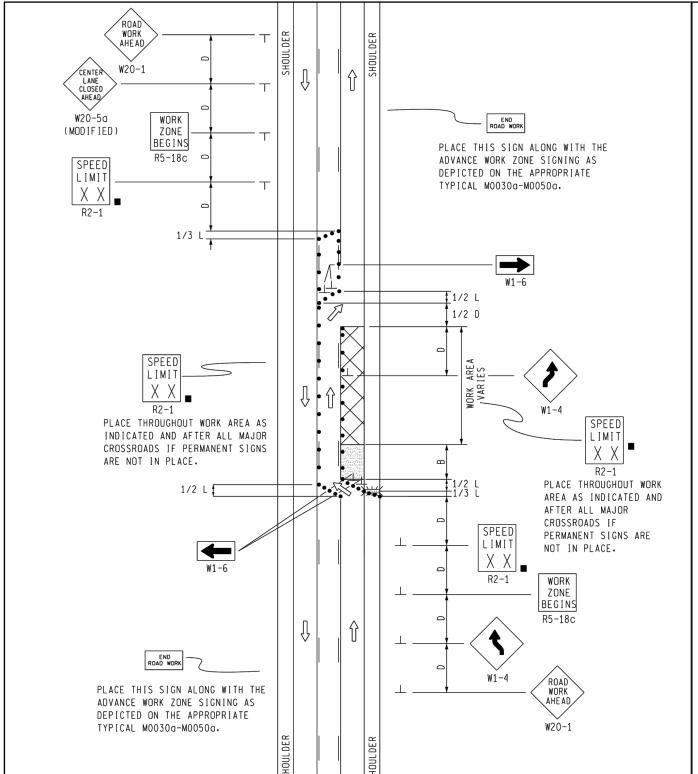
GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE "B"

SPEED* MPH	LENGT FEET
20	33
25	50
30	83
35	132
40	181
45	230
50	279
55	329
60	411
65	476
70	542

* POSTED SPEED, OFF PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

L BASED UPON AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) BRAKING DISTANCE PORTION OF STOPPING SIGHT DISTANCE FOR WET AND LEVEL PAVEMENTS (A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS), AASHTO. THIS AASHTO DOCUMENT ALSO RECOMMENDS ADJUSTMENTS FOR THE EFFECT OF GRADE ON STOPPING AND VARIATION FOR TRUCKS.

> **EMDOT** TRAFFIC AND SAFETY TABLES FOR "L", "D" AND "B" VALUES MAINTAINING TRAFFIC TYPICAL M0020a SHEET 2 OF 2



TRAFFIC AND SAFETY

TYPICAL

RK AREA

DRAWN BY: CON:AE:DJF
CHECKED BY: BMM:CRB

PLAN DATE:

NOT TO SCALE

DRAWN BY: CON:AE:DJF
CHECKED BY: BMM:CRB
PLAN DATE:

M0231a SHEET
1 DF 2
1 DF 2
1 DF 2

TYPICAL TEMPORARY TRAFFIC CONTROL

MAINTAINING TRAFFIC SHIFTING ONE THROUGH LANE INTO THE

FOR CLOSING ONE LANE OF A THREE

LANE ROADWAY WITH CLFLTO AND

CLFLTO NO SPEED REDUCTION

 CHANNELIZING DEVICES >>∺ LIGHTED ARROW PANEL

□
 □
 TRAFFIC FLOW

(CAUTION MODE)

REFLECTS EXISTING SPEED LIMIT

SIGN = 184 ft2 - TYPE B

PLUS ADDITIONAL R2-1's

THROUGHOUT WORK AREA

1F. D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES 1/2 L. AND 1/3 L = MINIMUM LENGTH OF TAPER B = LENGTH OF LONGITUDINAL BUFFER

- SEE MOO20a FOR "D," "L," AND "B" VALUES 2. ALL NON-APPLICABLE SIGNING WITHIN THE CIA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.
- 3. DISTANCES BETWEEN SIGNS, THE VALUES FOR WHICH ARE SHOWN IN TABLE D, ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.
- 3A. THE "WORK ZONE BEGINS" (R5-18c) SIGN SHALL BE USED ONLY IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE. SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE SHALL OMIT THIS SIGN AND THE QUANTITIES SHALL BE
- 4E. THE MAXIMUM RECOMMENDED DISTANCE(S) BETWEEN CHANNELIZING DEVICES SHOULD BE EQUAL IN FEET TO THE

POSTED SPEED IN MILES PER HOUR ON TAPER(S) AND TWICE THE POSTED SPEED IN THE PARALLEL AREA(S).

5. FOR OVERNIGHT CLOSURES, TYPE III BARRICADES SHALL BE LIGHTED.

ADJUSTED APPROPRIATELY.

- 6. THE TYPE A WARNING FLASHER SHOWN ON THE WARNING SIGNS SHALL BE POSITIONED ON THE SIDE OF THE SIGN NEAREST THE ROADWAY.
- 7. ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING REQUIREMENTS SHALL MEET NCHRP 350 CRASHWORTHLY REQUIREMENTS STIPULATED IN THE CURRENT EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MDOT WILL BE ALLOWED.
- 8. WHEN BUFFER AREAS ARE ESTABLISHED, THERE SHALL BE NO EQUIPMENT OR MATERIALS STORED OR WORK CONDUCTED IN THE BUFFER AREA.
- 21. ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH EITHER PROPOSED CHANGES IN TRAFFIC PATTERNS OR PROPOSED TEMPORARY TRAFFIC MARKINGS, SHALL BE REMOVED BEFORE ANY CHANGE IS MADE IN THE TRAFFIC PATTERN. EXCEPTION WILL BE MADE FOR DAYTIME-ONLY TRAFFIC PATTERNS THAT ARE ADEQUATELY DELINEATED BY OTHER TRAFFIC CONTROL DEVICES.

<u>SIGN SIZES</u>

DIAMOND WARNING - 48" x 48" W1-6 WARNING $-48" \times 24"$ R2-1 REGULATORY - 48" x 60" R5-18c REGULATORY - 48" x 48"

EMDOT TYPICAL TEMPORARY TRAFFIC CONTROL FOR CLOSING ONE LANE OF A THREE TRAFFIC AND SAFETY LANE ROADWAY WITH CLFLTO AND MAINTAINING TRAFFIC SHIFTING ONE THROUGH LANE INTO THE TYPICAL CLFLTO NO SPEED REDUCTION



Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

- 1. LANE CLOSURES SHALL ONLY BE TAKEN WHEN NECESSARY TO PERFORM WORK. WORK MUST BE STAGED SUCH THAT TWO WAY TRAFFIC IS MAINTAINED AT ALL TIME.
- 2. WASHTENAW COUNTY ROAD COMMISSION MUST BE NOTIFIED
- SEVEN DAYS PRIOR TO LANE CLOSURES. 3. LANE TAPERS SHALL BE PER MDOT TYPICAL m0020a.

 SY
 CAM
 2022.12.07

 SY
 CAM
 2022.12.01

 By
 Appd
 YYYY.MM.DD
 A PERMIT PLAN Issued

BWA BWA CAM 2022.11.18

Dwn. Dsgn. Chkd. YYYY.MM.DD

Permit/Seal

File Name: 001316C-05

Client/Project Logo

Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

Pittsfield Township, MI

TEMPORARY TRAFFIC CONTROL PLAN

Scale

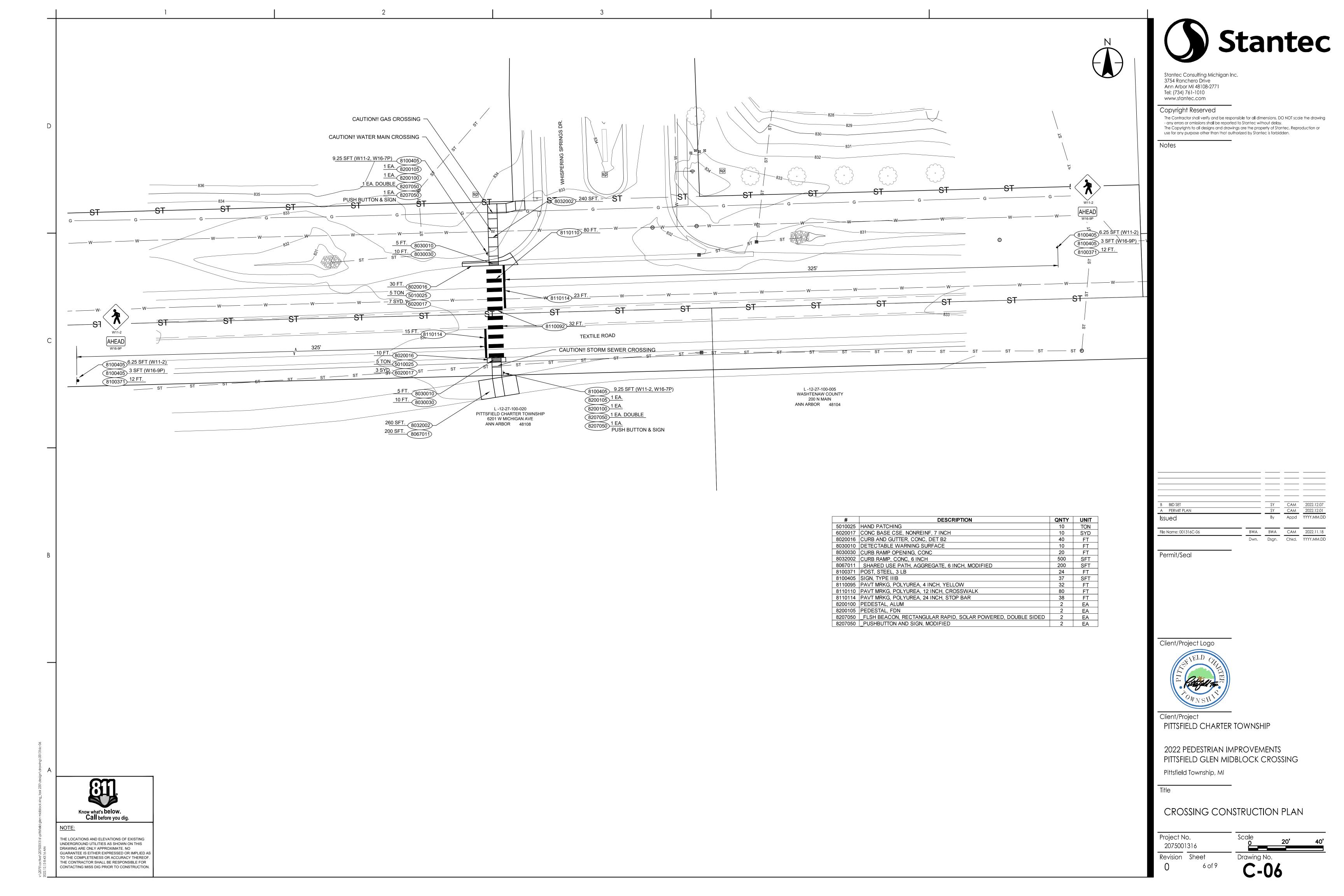
Project No. 2075001316 Revision Sheet

NONE Drawing No.

Know what's below. Call before you dig.

NOTE: THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF THE CONTRACTOR SHALL BE RESPONSIBLE FOR

CONTACTING MISS DIG PRIOR TO CONSTRUCTION



Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. CONTOURS SHOW EXISTING GRADES LEVEL — LANDING / MATCH-LEVEL -LANDING TEXTILE ROAD
 SY
 CAM
 2022.12.07

 SY
 CAM
 2022.12.01

 By
 Appd
 YYYY.MM.DD
 A PERMIT PLAN Issued 832.81_ MATCH BWA BWA CAM 2022.11.18

Dwn. Dsgn. Chkd. YYYY.MM.DD File Name: 001316C-07 Permit/Seal 832.88 ST/-MATCH- ST _____ ST ____ ST ____ __ LEVEL <u>---</u> LANDING LANDING Client/Project Logo L -12-27-100-020 833.00__ PITTSFIELD CHARTER TOWNSHIP 6201 W MICHIGAN AVE ANN ARBOR 48108 PITTSFIELD CHARTER TOWNSHIP 2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING **DETAIL GRADES - MIDBLOCK LOCATION** Pittsfield Township, Ml DETAILED GRADING PLAN Know what's below.
Call before you dig. NOTE: Project No. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS 2075001316 DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS Revision Sheet Drawing No. TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

RECTANGULAR RAPID FLASHING BEACON NO SCALE PEDESTAL FOR PEDESTRIAN PUSH BUTTON PEDESTAL FOUNDATION NOTES:
GROUNDING SYSTEM SHALL MEASURE 10
OHMS OR LESS TO GROUND. ALL
SCREWS, BOLTS AND PIPE THREAD SHALL
BE GREASED WITH NON-OXIDIZING
CONDUCTIVE GREASE. ANCHOR BOLTS
ARE TO BE ASTM 307 STEEL (4 REQ'D). 60363-T6 ALLOY, 4" X .250" -----WALL SCHEDULE 40-3.73 #/FT SPUN FINISH #6 STRANDED BARE COPPER GROUND WIRE OF SUFFICIENT LENGTH FOR CONNECTION TO GROUND LUG OR STUD Sign Code W11-2
(36"x36") F1 y/g
Include Sign Back Plate
Between Sign and Pole
Use MDOT typical for hole
spacing INSTALL 2" CONDUIT └─INSTALL 2ND CONDUIT MIN. 1½" FOR GROUND CABLE -3/4" x 10'-0" COPPER CLAD GROUND ROD(S) A MIN. OF 12" FROM FDN. BELOW GRADE (MAY BE INSTALLED INSIDE NEÅREST HANDHOLE), OR AS DIRECTED BY THE ENGINEER. RECTANGULAR RAPID FLASHING BEACON (RRFB) ELEVATION Sign Code W16-7PR-(24"x12") FI y/g Include Sign Back Plate Between Sign and Pole Use MDOT typical for hole spacing ANCHOR BOLT DETAIL NUT, 3/4" H.S. HEX HEAD
GALVANIZED (4 REQ'D)
WASHER, 3/4" DIA. STANDARD
FLAT GALVANIZED (8 REQ'D) Sign Code SP (12"x18") y/g — NUT, 3/4" H.S. HEX HEAD GALVANIZED (4 REQ'D) Sign Code R10-25 ----(9"x12") w/b - | - 3/4" dia. Galvanized PEDESTRIAN PUSHBUTTON CAULK WITH ALL SUBSTRATES CAULKING SEALANT ALL PEDESTRIAN & PUSHBUTTON SIGNS STAINLESS STEEL HEX HEAD BOLT, 3/8"-16 x 1" (SIDE MOUNT DETAIL) SQUARE ALUMINUM BASE 13 5/8" BOLT 37x1 1/2" SQUARE ALUMINUM BASE / LSTAINLESS STEEL WASHER ∠ NYLON WASHER ALUMINUM -RIVET-NUT-3" SIDE VIEW DRAWN BY J.S.W. FEB '10
REVISED BY R.L.H. DEC '20
CHECKED BY B.M.S. MAR '17
APPROVED BY B.M.S. MAR '17 PLAN DATE: 12–17–2020 555 N. ZEEB RD. RRFB WITH PEDESTRIAN PEDESTAL ANN ARBOR, MI 48103-1556 WASHTENAW 734-761-1500 Fax 734-761-3737



Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

 SY
 CAM
 2022.12.07

 SY
 CAM
 2022.12.01

 By
 Appd
 YYYY.MM.DD
 A PERMIT PLAN ssued BWA BWA CAM 2022.11.18

Dwn. Dsgn. Chkd. YYYY.MM.DD File Name: 001316C-08

Permit/Seal



Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

Pittsfield Township, Ml

WCRC STANDARD DETAILS

Project No. 2075001316 Revision Sheet

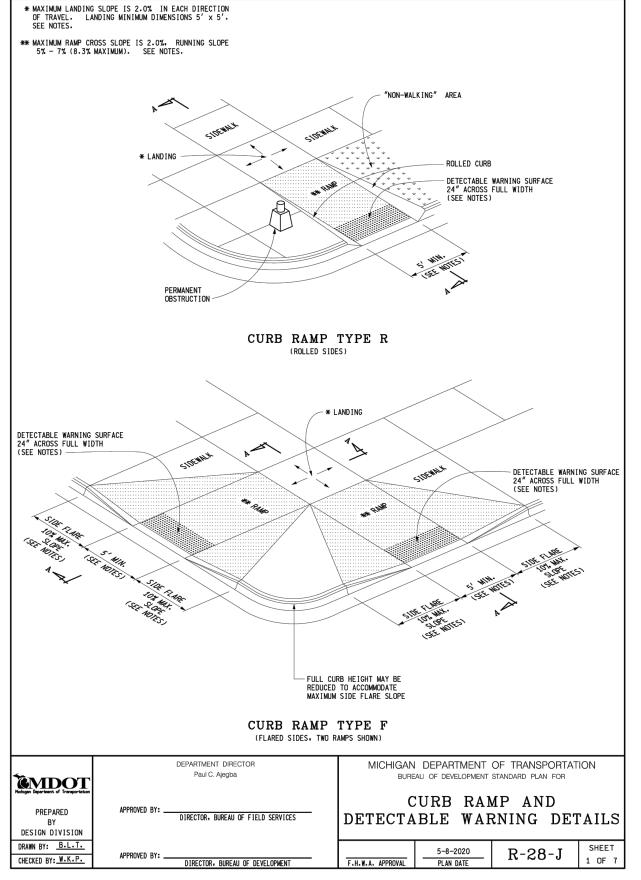
Scale NONE Drawing No.

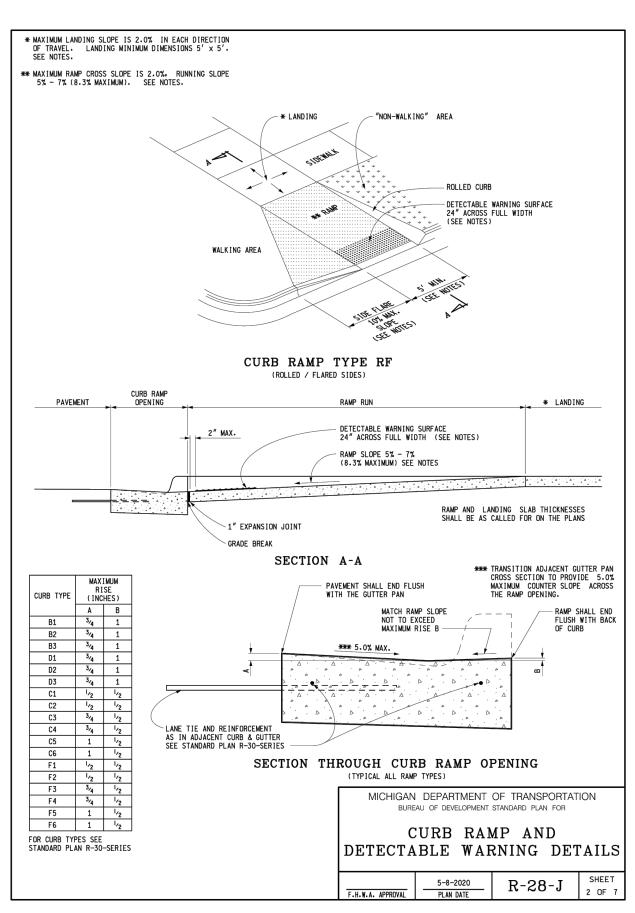
C-08

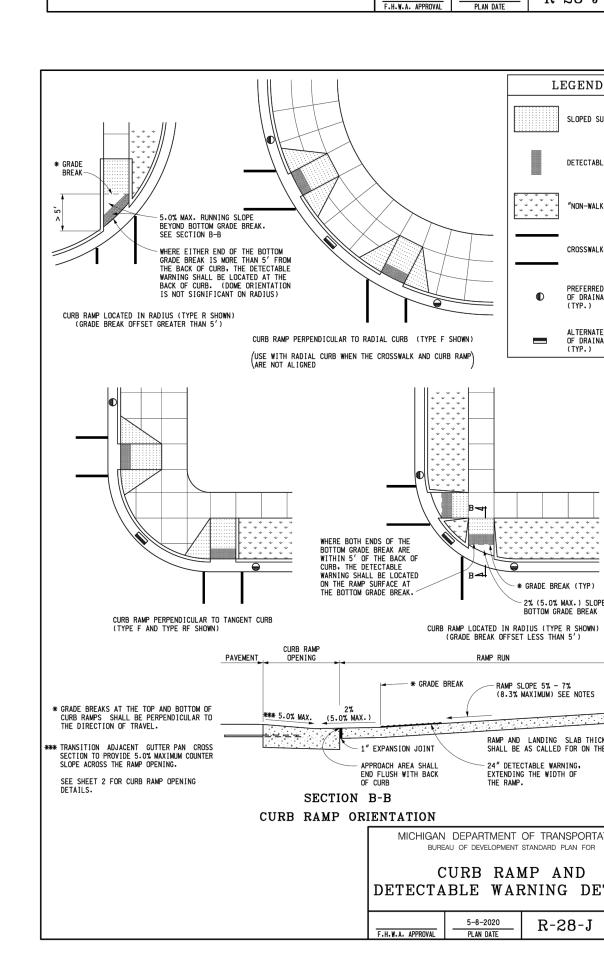
CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

Know what's below.
Call before you dig.

NOTE: THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR







* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS $5^\prime \times 5^\prime \cdot$ SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

CURB RAMP TYPE P (PARALLEL RAMP)
DO NOT USE IN AREAS WHERE PONDING MAY OCCUR

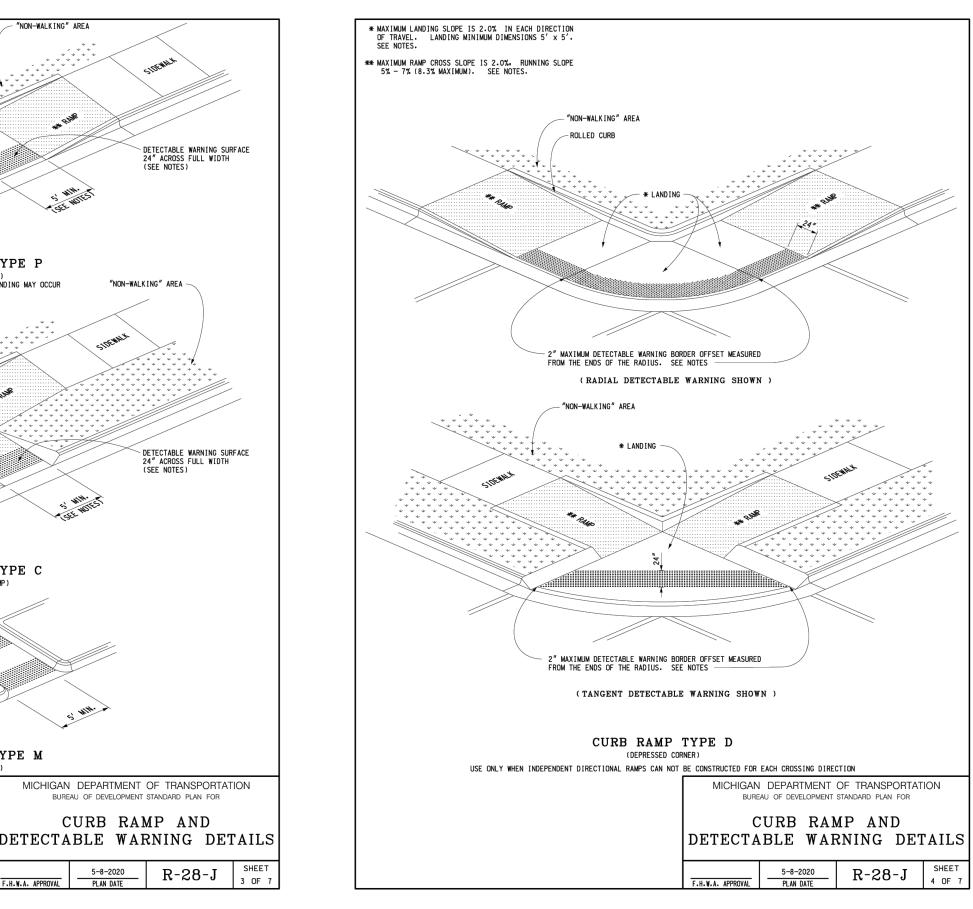
CURB RAMP TYPE C

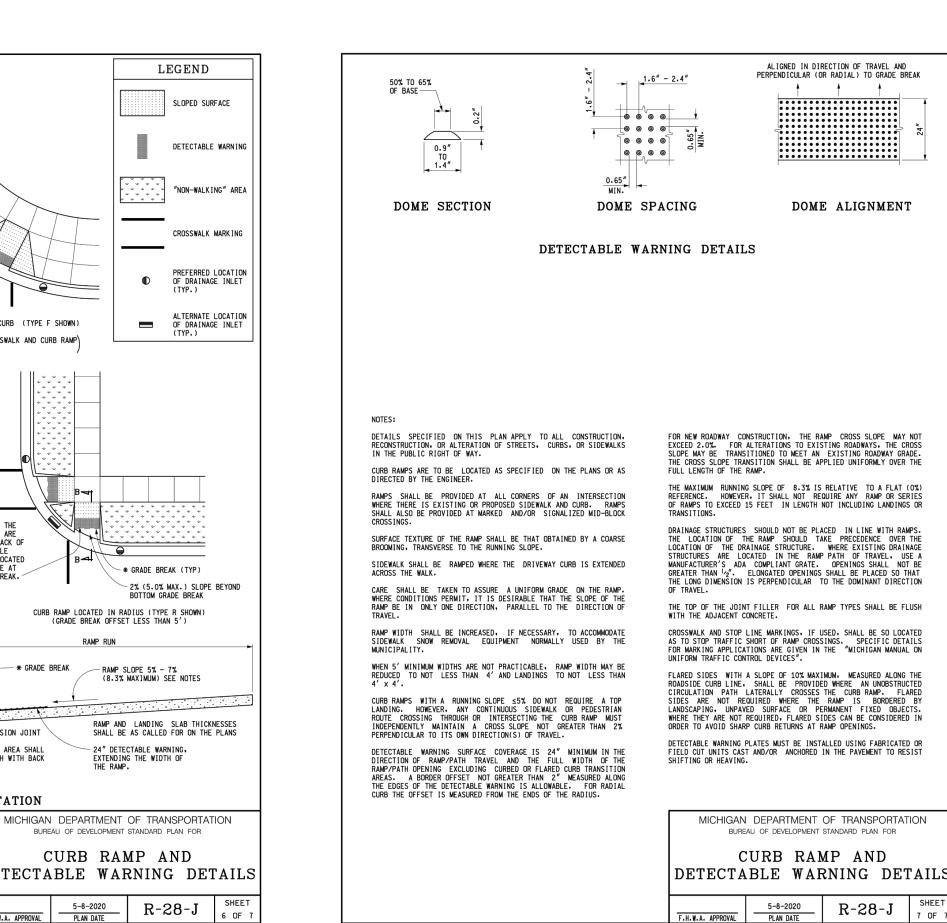
CURB RAMP TYPE M

(MEDIAN ISLAND)

(COMBINATION RAMP)

"NON-WALKING" AREA —







Stantec Consulting Michigan Inc. 3754 Ranchero Drive Ann Arbor MI 48108-2771 Tel: (734) 761-1010 www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Notes

 SY
 CAM
 2022.12.07

 SY
 CAM
 2022.12.01

 By
 Appd
 YYYY.MM.DD
 A PERMIT PLAN Issued
 BWA
 BWA
 CAM
 2022.11.18

 Dwn.
 Dsgn.
 Chkd.
 YYYY.MM.DD
 File Name: 001316C-09

Permit/Seal



Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS PITTSFIELD GLEN MIDBLOCK CROSSING

Pittsfield Township, MI

Title

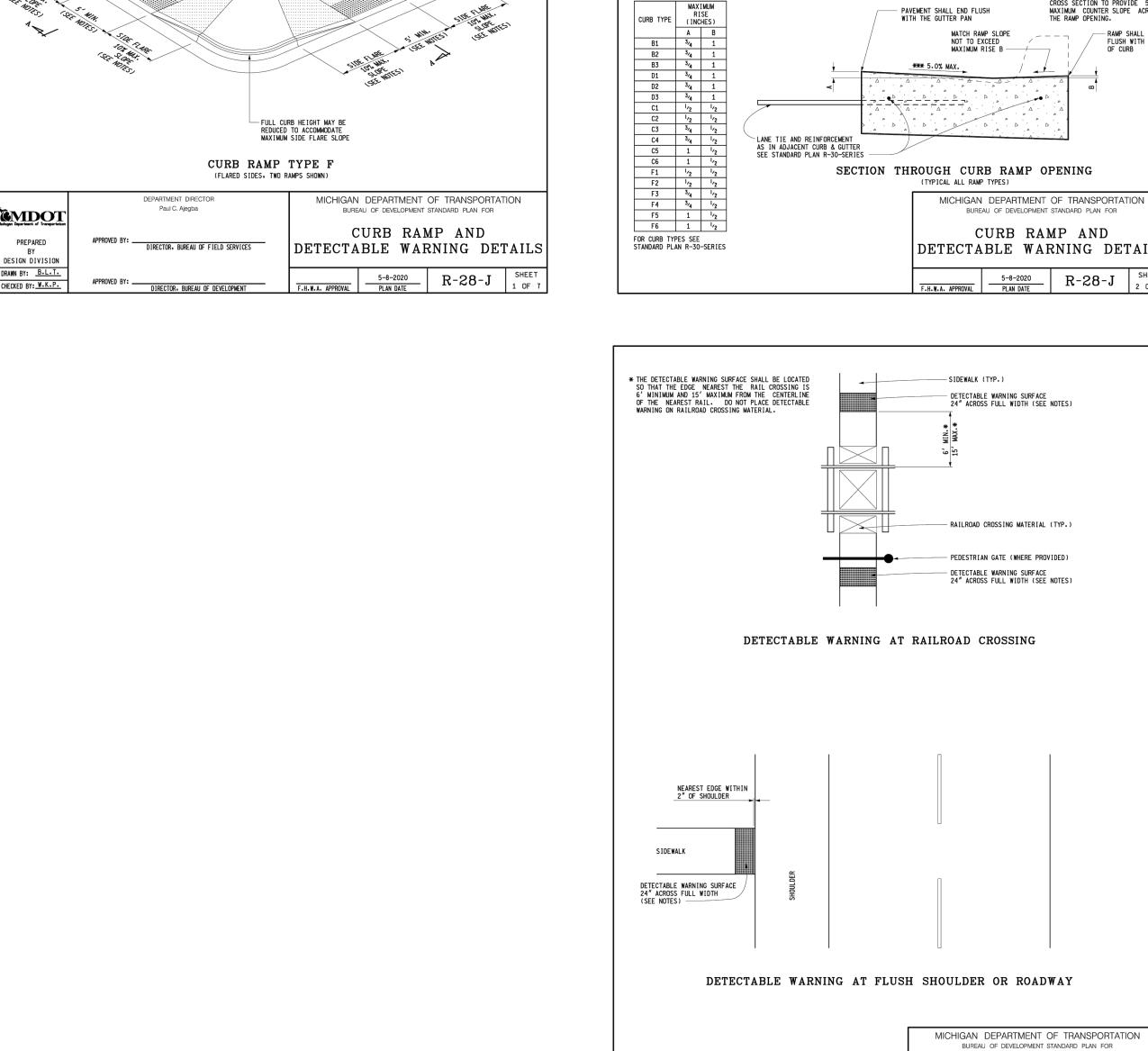
MDOT STANDARD DETAILS

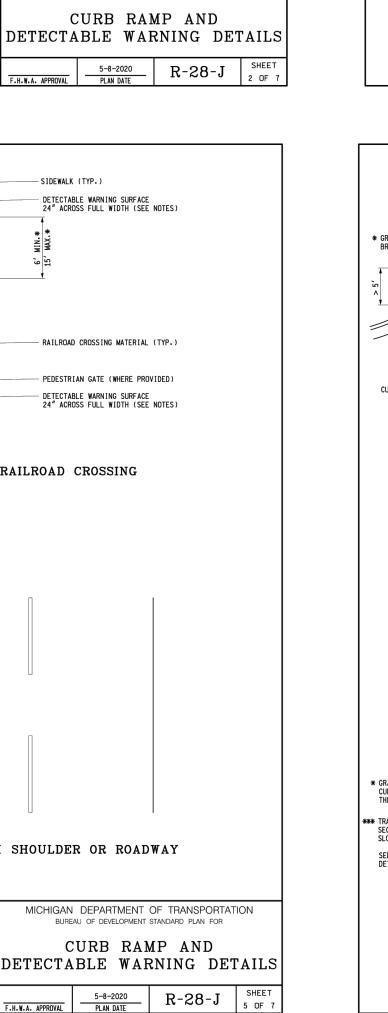
Project No. 2075001316 Revision Sheet

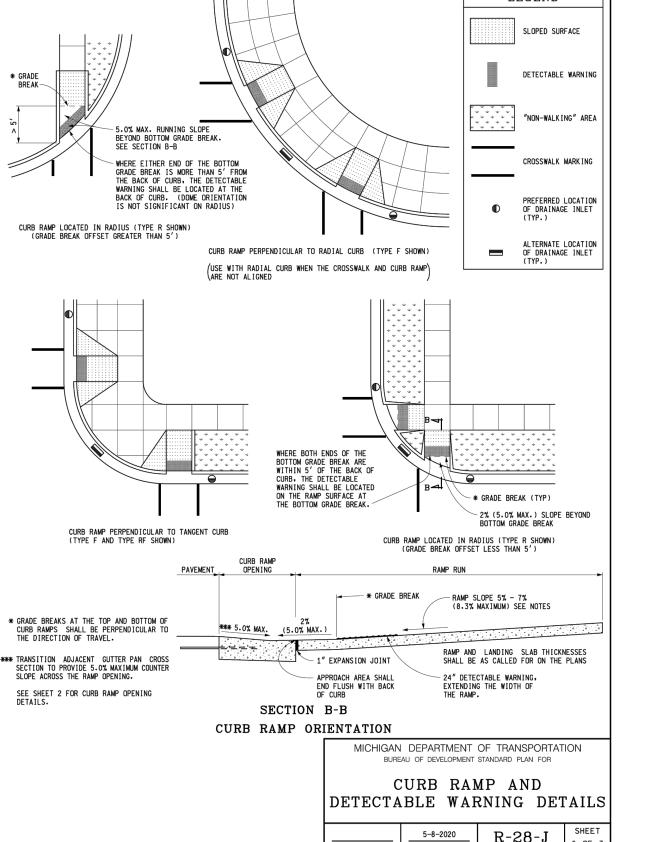
Drawing No.

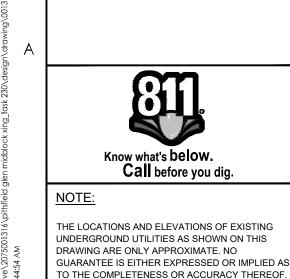
Scale

NONE









THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.