())) Stantec

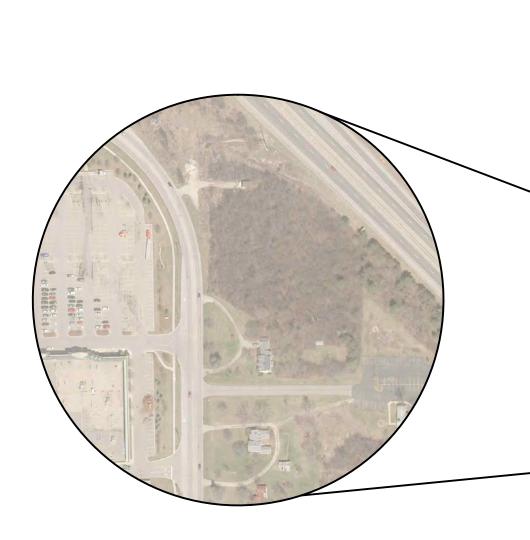
PITTSFIELD CHARTER TOWNSHIP

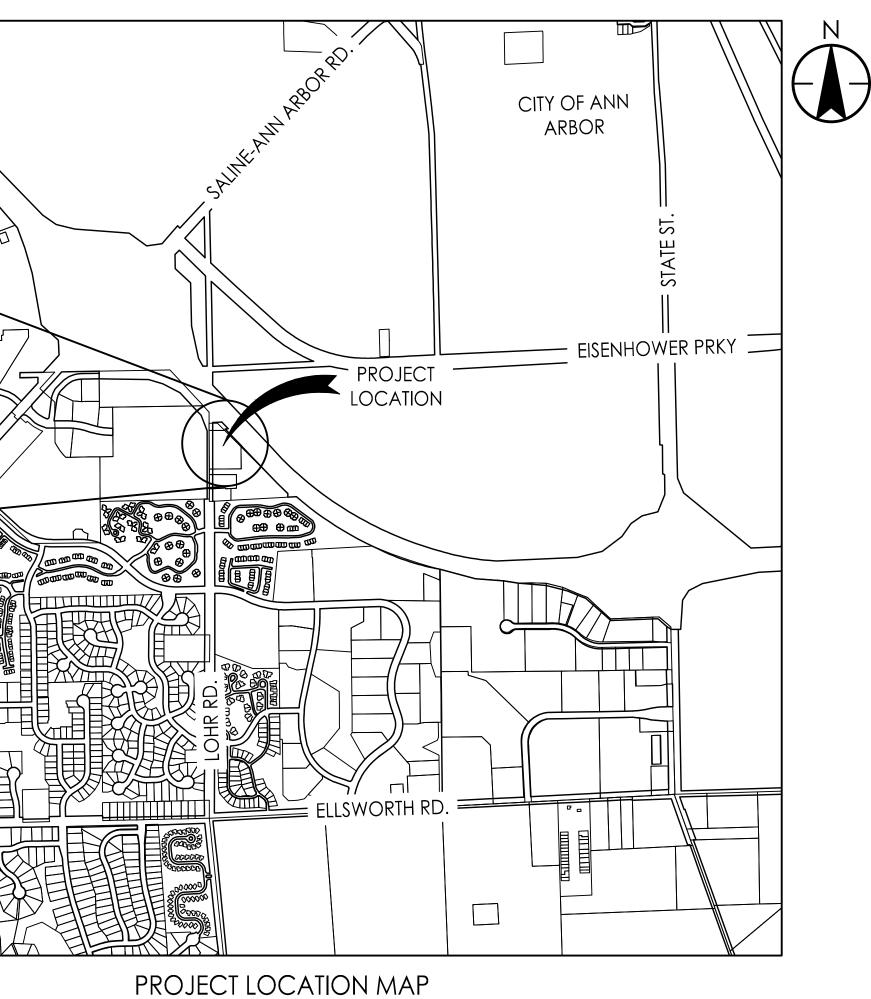


2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING

BID SET DECEMBER, 2022 PROJECT NUMBER: 2075001316

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NOT TO SCALE

ROAD	YEAR	ADT	POSTED SPEED
LOHR	2012	8,202	40

UTILITY CONTACTS

NAME: PITTSFIELD CHARTER TOWNSHIP ADDR: 6201 WEST MICHIGAN AVE. ANN ARBOR, MI 48108 PHONE: 734-822-2110 EMAIL: UTILITIES@PITTSFIELD-MI.GOV CONTACT: B. WEIRICH

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CONTACT: GARY CLINTON

DRAWING INDEX:

DWG	SHEET	TITLE
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C-09	09	WCRC STANDARD DETAILS
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C-11	11	MDOT STANDARD DETAILS
C-12	12	MDOT STANDARD DETAILS
C-13	13	MDOT STANDARD DETAILS

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CONTACT: ANTHONY IGNASIAK

NAME: DTE ENERGY: GAS

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CONTACT: BASEL DJAZMATI P.E., PMP SENIOR CAPITAL PROJECT MANAGER

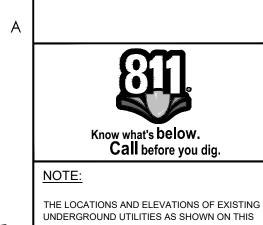
NAME: WASHTENAW COUNTY WATER

EMAIL: MILLERS@WASHTENAW.ORG CONTACT: SCOTT MILLER, PE

TR	AFFIC NOTES	GE	NERAL NOTES
1	ACCESS TO ALL RESIDENTIAL AND COMMERCIAL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.	1.	THIS PROJECT MAY NOT UTILIZE ALL SYMBOLS,
	ALL TRAFFIC CONTROL DEVICES AND THEIR USAGE MUST CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), LATEST EDITION.	2.	ALL ITEMS INCIDENTAL TO AND/OR REQUIRED TO INSTALLED BY THE CONTRACTOR.
	ALL EXISTING PAVEMENT MARKINGS THAT ARE REMOVED FOR TRAFFIC CONTROL OR OBLITERATED DURING CONSTRUCTION OPERATIONS MUST BE REPLACED WITH POLYUREA FOR THE LONGITUDINAL, LANE LINES.	3.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR AS REQUIRED.
4	ALL SIGNS MATERIALS AND SUPPORTS MUST MEET NCHRP-350 CRASH WORTHY REQUIREMENTS.	4.	ALL MATERIAL AND EQUIPMENT SHALL BE STOR DAMAGE. STORE EQUIPMENT IN ITS ORIGINAL P/
	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.		OUT RAIN, DIRT, AND FOREIGN OBJECTS.
6.	TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES. SEE SHEET C-05 FOR MAINTENANCE OF TRAFFIC DETAILS.	5.	ALL WORK ON THIS PROJECT SHALL BE IN ACCO SPECIFICATIONS, INCLUDING SOIL EROSION AND
		6.	ALL CONSTRUCTION AND MATERIALS ARE TO CO STANDARDS AS THEIR JURISDICTION MAY APPLY
		7.	ALL PAVEMENT CONSTRUCTION SHALL IN GENE TRANSPORTATION 2020 STANDARD SPECIFICATI CONSTRUCTION DETAILS AS SPECIFIED ON THE BASE TO BE 98% MAXIMUM UNIT WEIGHT AT OPT
TR	AFFIC SIGN AND SIGNAL NOTES	8.	ALL YARD AREAS SHALL BE COMPACTED TO A M SOIL. BACKFILL SHALL BE BROWN COMPACTABL
1.	CONTACT WASHTENAW COUNTY ROAD COMMISSION AND PITTSFIELD TOWNSHIP SEVEN WORKING DAYS PRIOR TO	0	OTHER DELETERIOUS MATERIAL.
2.	THE START OF CONSTRUCTION. 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	9.	210LB/ACRE. FERTILIZER: 150LB/ACRE. STRAW M DOWN, SUCH AS TACKIFIER, NET BINDING, ETC. 1 1%.
3	TRANSPORTATION (MDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION".	10.	PAVEMENT REMOVALS SHALL EXTEND TO THE L THE ENGINEER. THE REMOVAL OF MORE OF LES
•	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		UNLESS OTHERWISE APPROVED BY THE ENGINE AREAS WHERE WORK IS IN CLOSE PROXIMITY TO PRE-CONSTRUCTION WALKTHROUGH WILL BE N SAWCUTTING.
5.	WORK SHALL BE BORNE BY THE CONTRACTOR. WHERE PROPOSED ON PLAN SHEETS, SIGNS AND STRUCTURES SHALL BE FABRICATED IN ACCORDANCE TO TYPICAL	11.	PAYMENT FOR SAWCUTTING OF PAVEMENT AND REMOVAL PAY ITEM.
	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.	12.	REPLACEMENT OF MAILBOXES, SIGNS, FENCES RETAINING WALLS, BUSHES, SHRUBS, TREES UN EXPLICITLY NOTED ON THE PLANS, BUT REMOVE REQUIRED. THIS WORK IS TO BE PAID FOR UNDE
6.	SIGN LAYOUTS SHALL BE ACCORDING TO THE CURRENT ENGLISH EDITION OF THE "STANDARD HIGHWAY SIGNS" MANUAL OR AS DETAILED ON THE PLANS.	13.	AS NOTED ABOVE, CONTRACTOR SHALL RESTOR CONDITION AS DEPICTED IN THE PRE-CONSTRUCT
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.	14.	ALL GRADES AND DRAINAGE PATTERNS SHALL E ALLOW FOR SUPERIOR DRAINAGE.
8.	WHEN ATTACHING SIGNS TO SUPPORTS, TIGHTEN THE NUT, NOT THE BOLT HEAD.	15.	THE CONTRACTOR SHALL FURNISH AND INSTALI THE ENGINEER AND/OR SPECIFIED ON THE DRAV
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.	16.	DRAWING 04 FOR SOIL EROSION AND SEDIMENT THE CONTRACTOR SHALL PROTECT ALL TREES
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.		WITHOUT EXPRESSED APPROVAL OF THE PROP JURISDICTION THEREOF, AND OF THE ENGINEEF ENGINEER TO REVIEW ALL TREES DESIGNATED
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.	17.	CONTRACTOR SHALL TAKE CARE WHEN WORKIN TEMPORARY SUPPORT APPROVED BY THE UTILI TO BE INTERFERING WITH CONSTRUCTION. TEM UTILITY EXPLORATION AND COORDINATION PAY
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.	18.	BENCHMARKS AS SHOWN ON THE PLAN SHEETS
13.	EXISTING O.H. AND T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.	19.	NO MATERIALS CAN BE STORED IN THE ROAD RI
14.	INSTALL PEDESTALS AND POLES SO AS NOT TO INTERFERE WITH TRAFFIC.	20.	ALL ITEMS ARE TO BE CONSTRUCTED ACCORDIN STANDARD PLANS, UNLESS OTHERWISE INDICAT
15.	CONTRACTOR SHALL CONTACT ENGINEER 72 HOURS PRIOR TO POURING FOUNDATIONS IN ORDER TO VERIFY SOIL CONDITION, DEPTH AND DETERMINE IF CASING IS REQUIRED.	21.	EXCEPT WHERE OTHERWISE INDICATED ON THE
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.		SPECIFICATIONS CONTAINED THEREIN, ALL MAT BY THESE PLANS SHALL BE DONE IN ACCORDAN STANDARD SPECIFICATIONS FOR CONSTRUCTION
17.	A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL AND 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES AND EXISTING U.G. WATER FACILITIES.	22.	FOR PROTECTION OF UNDERGROUND UTILITIES SHALL DIAL 811 A MINIMUM OF THREE FULL WOR
18.	NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES PLACEMENT OR RRFB ASSEMBLY EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.		PRIOR TO BEGINNING EACH EXCAVATION IN ARE LOCATED. MEMBERS WILL THUS BE ROUTINELY RESPONSIBILITY OF NOTIFYING UTILITY OWNER
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 CLUDE	23.	CONTRACTOR SHALL VERIFY EXISTING SIDEWAL ENGINEER IF GRADES DIFFER FROM PLAN GRAD
	REPEATED FOR CONVENIENCE IN THE MATERIALS SOURCE GUIDE.	24.	SHOP DRAWINGS AND MATERIAL CERTIFICATES SHALL FURNISH MATERIAL SOURCE LISTS AND C MATERIALS USED ON THE PROJECT ARE IN ACC 2020 STANDARD SPECIFICATIONS FOR CONSTRU- SPECIFICATIONS. SHOP DRAWINGS AND/OR CA

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

#	DESCRIPTION	QNTY
1027051	_AUDIO VIDEO FILE, SPECIAL	1
1100001	MOBILIZATION, MAX 10%	1
2057021	_SUBGRADE UNDERCUTTING, MODIFIED	30
2090001	PROJECT CLEANUP	1
8120012	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED LIGHTED, FURN	5
8120013	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED LIGHTED, OPER	5
8120026	PEDESTRIAN TYPE II BARRICADE, TEMP	3
8120035	CHANNELIZING DEVICE, 42 INCH, FLOURESCENT, FURN	100
8120036	CHANNELIZING DEVICE, 42 INCH, FLOURESCENT, OPER	100
8120140	LIGHTED ARROW, TYPE C, FURN	2
8120141	LIGHTED ARROW, TYPE C, OPER	2
8120170	MINOR TRAF DEVICES	1
8120350	SIGN TYPE B, TEMP, PRISMATIC, FURN	250
8120351	SIGN TYPE B, TEMP, PRISMATIC, OPER	250
8120370	TRAF REGULATOR CONTROL	1
8167011	_TURF ESTABLISHMENT, PERFORMANCE	500



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.

S, NOTES, AND ABBREVIATIONS SHOWN ON THIS SHEET.

D TO COMPLETE THE INSTALLATION SHALL BE FURNISHED AND

FOR ALL PERMITS AND CERTIFICATES OF INSPECTIONS FOR ALL WORK ORED IN SUCH A MANNER TO PREVENT BREAKAGE OR PHYSICAL

L PACKAGING MATERIALS AND PROVIDE PROTECTIVE COVER TO KEEP

CORDANCE WITH THE CURRENT STANDARDS AND GENERAL AND SEDIMENTATION CONTROL, OF PITTSFIELD TOWNSHIP.

COMPLY WITH PITTSFIELD TOWNSHIP AND/OR WASHTENAW COUNTY PLY.

NERAL BE PERFORMED PER THE MICHIGAN DEPARTMENT OF ATION FOR CONSTRUCTION EARTHWORK AND PAVING AND ALSO HE APPROVED CONSTRUCTION PLANS. DENSITY FOR AGGREGATE PTIMUM MOISTURE CONTENT.

A MINIMUM OF 90% OF MODIFIED PROCTOR ASTM D-1557, FOR THAT ABLE MATERIAL FREE OF BLUE CLAY, MARL, ORGANICS OR ANY

TH A MINIMUM OF 3" OF TOPSOIL AND SEEDED. GRASS SEED: W MULCH: 3" IN DEPTH, 1.5-2 TON/ACRE. ALL MULCH MUST HAVE A TIE . HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES EXCEEDING

E LIMITS SHOWN ON THE PLANS, UNLESS OTHERWISE APPROVED BY LESS PAVEMENT THAN SHOWN ON THE PLANS IS NOT ACCEPTABLE INEER. TEMPORARY SHEETING AND SHORING MUST BE USED IN Y TO PAVEMENT OR UTILITIES NOT INDICATED FOR REMOVAL. A E NECESSARY WITH OWNER, ENGINEER AND CONTRACTOR PRIOR TO

AND DRIVEWAY REMOVALS IS INCLUDED WITH THE PAVEMENT

ES (ALL TYPES), LIGHT POLES, BRICK PAVERS, LANDSCAPE ITEMS, UNDER 6" DBH AND ALL OTHER MISCELLANEOUS ITEMS NOT OVED BY THE CONTRACTOR DURING WORK OPERATIONS, IS NDER THE TURF ESTABLISHMENT PAY ITEM.

TORE ALL DISTURBED AREAS AT A MINIMUM TO THEIR ORIGINAL RUCTION AUDIO/VIDEO FILE.

BE RESTORED TO THE EXISTING CONDITION OR MODIFIED ONLY TO

TALL SILT FENCE, TREE FENCE AND INLET FILTERS AS DIRECTED BY RAWINGS PRIOR TO THE START OF ANY EXCAVATION. REFER TO ENTATION CONTROL NOTES AND DETAILS.

ES NOT INDICATED FOR REMOVAL. NO TREES ARE TO BE REMOVED OPERTY OWNER, OR THE GOVERNMENTAL BODY HAVING EER. CONTRACTOR SHALL PERFORM A WALK THROUGH WITH THE ED FOR REMOVAL PRIOR TO CONSTRUCTION.

KING NEAR EXISTING UTILITY POLES. CONTRACTOR SHALL PROVIDE TILITY COMPANY HAVING JURISDICTION FOR UTILITY POLES FOUND EMPORARY UTILITY POLE SUPPORTS SHALL BE PAID FOR UNDER PAY ITEM.

ETS ARE BASED ON NAVD88 DATUM.

D RIGHTS-OF-WAY.

RDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 CATED.

THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL ATERIALS AND WORKMANSHIP FOR ALL IMPROVEMENTS COVERED ANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 TION, AND SUPPLEMENTAL SPECIFICATIONS.

ES AND IN CONFORMATION WITH PUBLIC ACT 53, THE CONTRACTOR ORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS REAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE VERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

NALK GRADES ON EAST SIDE OF ROAD. CONTRACTOR SHALL NOTIFY RADES.

TES. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR ND CERTIFICATIONS TO THE PROJECT ENGINEER VERIFYING THAT ALL CORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION FRUCTION AND WASHTENAW COUNTY ROAD COMMISSION CATALOG CUTS SHALL BE REQUIRED FOR MAJOR MATERIALS.

UNIT	
LSUM	
LSUM	
CYD	
LSUM	
EA	
LSUM	
SFT	
SFT	
LSUM	
SYD	

LEGEND					
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	Тт	TREE PROTECTION FENCE		
12"ST	PROP. STORM SEWER		SILT FENCE		
O S E	EXIST. MANHOLE		CLEARING LIMITS		
O O	PROP. MANHOLE	• • • • • • • • • • • • • • • • • • •	EXIST. GUARDRAIL		
	PROP. EDGE DRAIN	• • • • • • • • • • • • • • • • • • •	PROP. GUARDRAIL		
	EXIST. CATCH BASIN/INLET	P	PROPERTY LINE		
	PROP. CATCH BASIN/INLET	Ţ	CENTERLINE		
)(CULVERT	4	EXIST. SIGN		
	INLET FILTER	•	PROP. SIGN		
Ö	PROP. AIR RELEASE VALVE		ENCLOSED TRASH AREA		
000	PROP. BYPASS CONNECTION		DRAINAGE DIRECTION		
●C.O.	PROP. CLEANOUT	R	SIDEWALK RAMP		
8′′S	EXIST. SANITARY SEWER	8	BARRIER FREE PARKING		
—— 18" SS ——	PROP. SANITARY SEWER	F.F.	FINISH FLOOR ELEV.		
8′′′₩	EXIST. WATER MAIN	F.G.	FINISH GRADE ELEV.		
8"V	PROP. WATER MAIN	B.F.	BASEMENT FLOOR ELEV.		
ŵ	EXIST. HYDRANT	G.F.	GARAGE FLOOR ELEV.		
ø	PROP. HYDRANT	•	SECTION CORNER		
P.I.V	EXIST. POST INDICATOR VALVE	\land	CONTROL POINT		
<u> </u>	EXIST. GATE VALVE AND BOX/STOP BOX	0	FOUND IRON PIPE		
	PROP. CURB STOP BOX	0 S	SET IRON PIPE		
	EXIST. GATE VALVE AND WELL	Ø	FOUND CONCRETE MONUMENT		
	PROP. GATE VALVE AND WELL	© S	SET CONCRETE MONUMENT		
_	PROP. REDUCER	×F	FOUND PK NAIL		
1	PROP. END CAP	×S	SET PK NAIL		
OHP	EXIST. OVERHEAD ELECTRIC	× F	FOUND LEADED CHISEL HOLE		
DHP	PROP. OVERHEAD ELECTRIC	×S	SET LEADED CHISEL HOLE		
	EXIST. UNDERGROUND ELECTRIC	O F-RR	FOUND REROD		
	PROP. UNDERGROUND ELECTRIC	+	APPROX. LOCATION OF SOIL BORING		
- \		+	APPROX. LOCATION OF MONITORING WELL		
*		\odot	APPROX. LOCATION OF PENETRATION TEST		
o U.P.					
<u> </u>	GUY WIRE EXIST. ELECTRIC TRANSFORMER	žýs ~			
e	PROP. ELECTRIC TRANSFORMER	\$	EXIST. SHRUB EXIST. TREE OR BRUSH LIMIT		
	EXIST. OVERHEAD TELEPHONE	×24	TREE TO BE REMOVED		
	PROP. OVERHEAD TELEPHONE	×			
OHT	EXIST. UNDERGROUND TELEPHONE		REMOVE AND REPLACE		
	PROP. UNDERGROUND TELEPHONE				
2″G	EXIST. GAS		BITUMINOUS PAVEMENT		
2°G	PROP. GAS				
2 0	EXIST. MAILBOX		GRAVEL PAVEMENT		
 	EXIST. GAS RISER				
 	EXIST. TELEPHONE RISER		CONCRETE PAVEMENT		
	COMPACTED SAND BACKFILL		BRICK PAVERS		
			MAST ARM		
			PEDESTAL		

NOTE

	MDOT STANDARD PLANS	SHEET NO.	TITLE (TRAFFIC SIGNAL)
SHEET NO.	TITLE (ROAD)	SIG-032-B	TRAFFIC SIGNAL MAST ARM POLE AND MAST ARM DETAILS -
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-040-A SIG-070-A SIG-100-A SIG-110-A SIG-211-A SIG-240-A SIG-400-A	CATEGORY III TRAFFIC SIGNAL MAST ARM STANDARD FOUNDATION PEDESTAL FOUNDATIONS CONTROLLER CABINET MOUNTED ON STEEL OR WOOD POLES POLE MOUNTED TS CONTROLLER CABINET UNDERGROUND SERVICE/DISCONNECT WOOD POLES HANDHOLE - PRECAST, POLYMER CONCRETE PEDESTRIAN PUSH BUTTON DETAILS
R-82-D R-83-C R-96-E R-100-H	AND SEWER BUCKHEADS BEDDING AND FILLING AROUND PIPE CULVERTS UTILITY TRENCHES SOIL EROSION & SEDIMENTATION CONTROL MEASURES SEEDING AND TREE PLANTING	SHEET NO. WZD-100-A* WZD-125-E*	TITLE GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS TEMPORARY TRAFFIC CONTROL DEVICES WCRC STANDARD PLANS
SHEET NO.	TITLE (PAVEMENT MARKINGS)	SHEET NO.	TITLE (ROAD)
PAVE-P45-C SHEET NO.	INTERSECTION, STOP BAR & CROSSWALK MARKINGS TITLE (SIGNING)	WASH-19	RECTANGULAR RAPID FLASHING BEACON
SIGN-120-E SIGN-100-G SIGN-200-D SIGN-740-B	ROADSIDE SIGN LOCATIONS & SUPPORT SPACING STANDARD SIGN INSTALLATIONS STEEL POSTS MISCELLANEOUS SIGN CONNECTION DETAILS		

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.



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Notes

F B	BID SET			CAM	2022.12.05
E PE	ERMIT REV 3		CAM	MDP	2022.10.27
D PE	ERMIT REV 2		CAM	MDP	2019.12.20
C PE	ERMIT REV 1		CAM	MDP	2019.10.24
B PE	ERMIT PLAN		CAM	MDP	2019.06.07
A PF	A PRELIMINARY PLAN			MDP	2018.10.12
Issued			Ву	Appd	YYYY.MM.DD
File Name: 149600C-02		BWA	BWA	САМ	2018.08.25
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

____ ___ ____

Permit/Seal



Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING

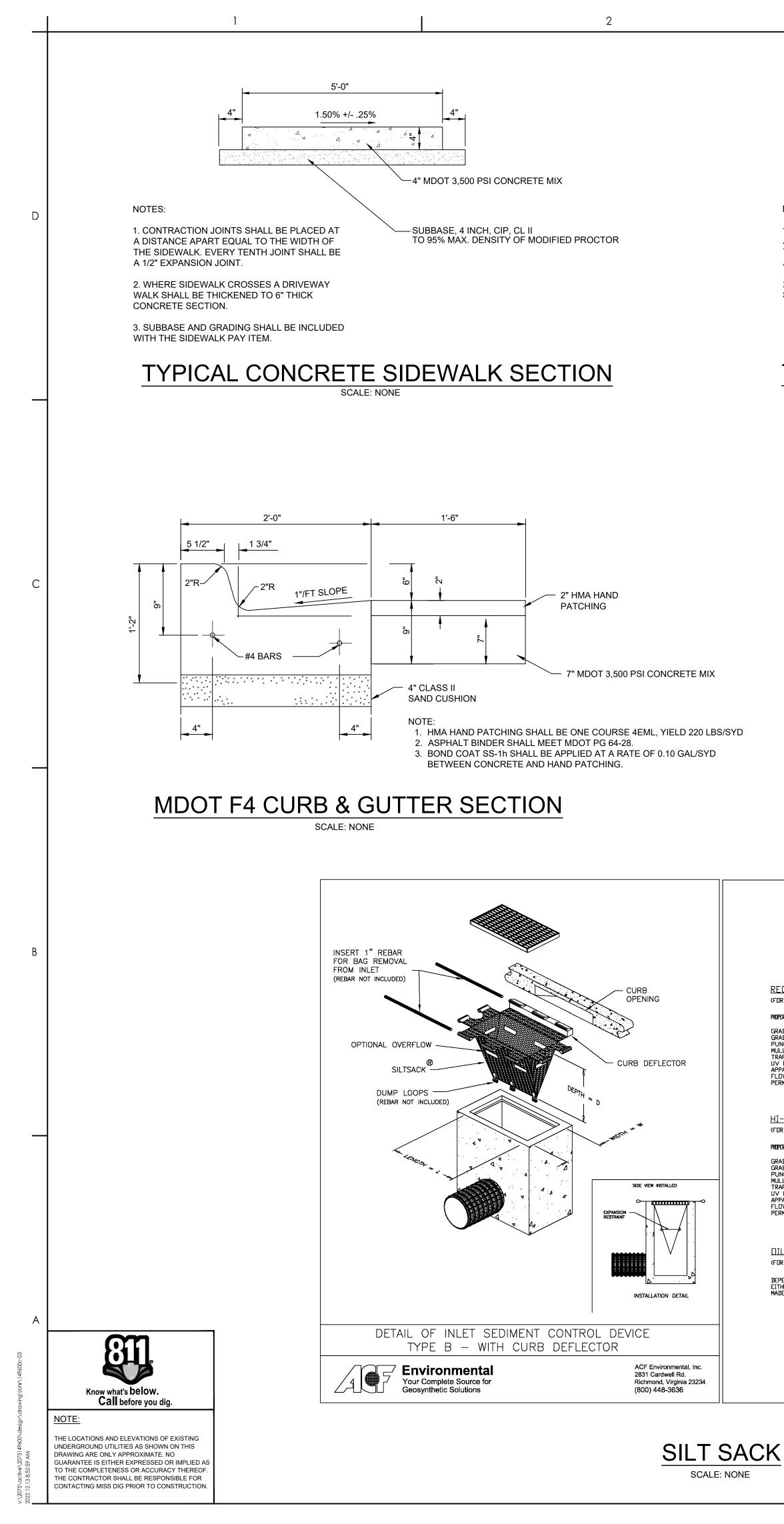
Pittsfield Township, Ml

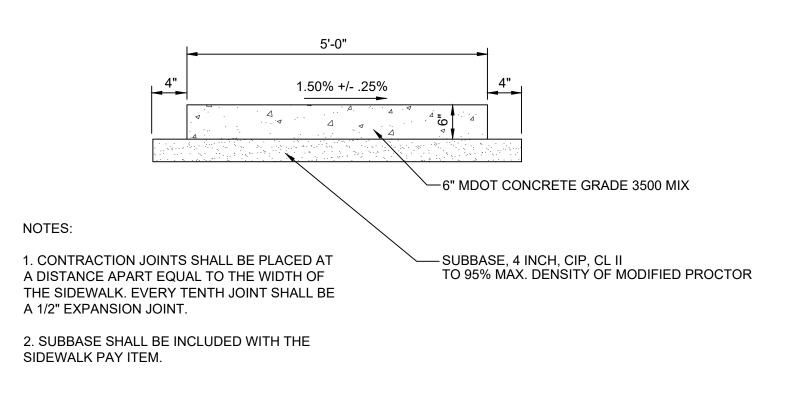
Title

GENERAL NOTES, LEGEND, SYMBOLS AND ABBREVIATIONS

Scale Project No. 2075001316 Revision Sheet 2 of 13

Drawing No. **C-02**





TYPICAL CONCRETE CURB RAMP SECTION

SCALE: NONE

DΥΥ

NOTE: BITUMINOUS PAVEMENT REPLACEMENT SHALL MEET EXISTING OR AT A MINIMUM MEET THE CROSS SECTION SHOWN IN THIS DETAIL AND SHALL ONLY BE USED WHEN APPROVED BY THE ENGINEER.

BITUMINOUS ROAD AND COMMERCIAL DRIVEWAY PAVEMENT SECTION

SCALE: NONE

HMA APPLICATION TABLE

ITEM	MINIMUM APPLICATION RATE	PERFORMANCE GRADE	REMARKS	MINIMUM AWI
4EML	square 165 lb/ yard	64-28	WEARING COURSE, LOHR RD. (1 1/2 INCH LIFT)	220
4EML	square 165 lb/ yard	64-28	LEVELING COURSE, LOHR RD. (1 1/2 INCH LIFT)	220
3EML	330 lb/ square yard	64-28	BASE COURSE, LOHR RD. (3 INCH LIFT)	220

BITUMINOUS BOND COAT: THE FOLLOWING RATES OF BITUMINOUS BOND COAT (SS-1h) SHALL BE USED UNLESS DIRECTED OTHERWISE BY THE ENGINEER. (A.) 0.10 GAL./SQ. YD. SHALL BE APPLIED OVER ALL EXISTING PAVEMENTS AND PAVEMENT SURFACES. (B.) 0.10 GAL./SQ. YD. SHALL BE APPLIED BETWEEN SUBSEQUENT HMA COURSES.

RECYCLED ASPHALT PAVEMENT: MAXIMUM RAP SHALL BE 25%

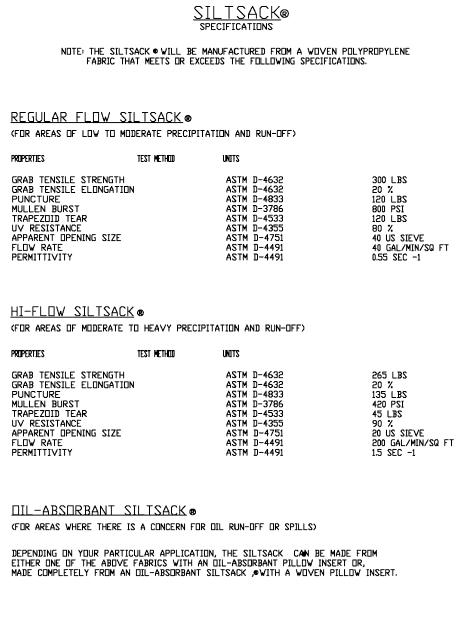
AIR VOIDS: 3% AIR VOIDS SHALL BE USED ON HMA TOP COURSE

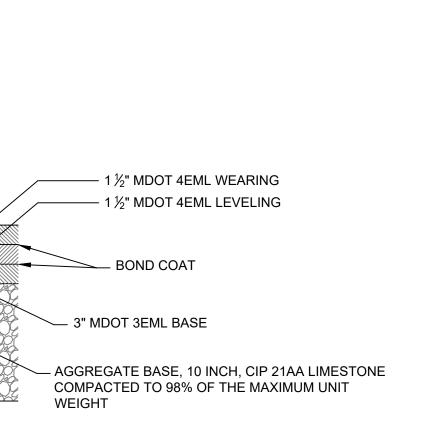


R10-25 (9 x 12)



(18 x 24)







W11-2 (30 x 30)



SPECIAL SIGN (12 x 18)





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

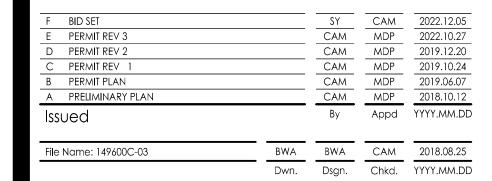


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Notes



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Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING Pittsfield Township, MI

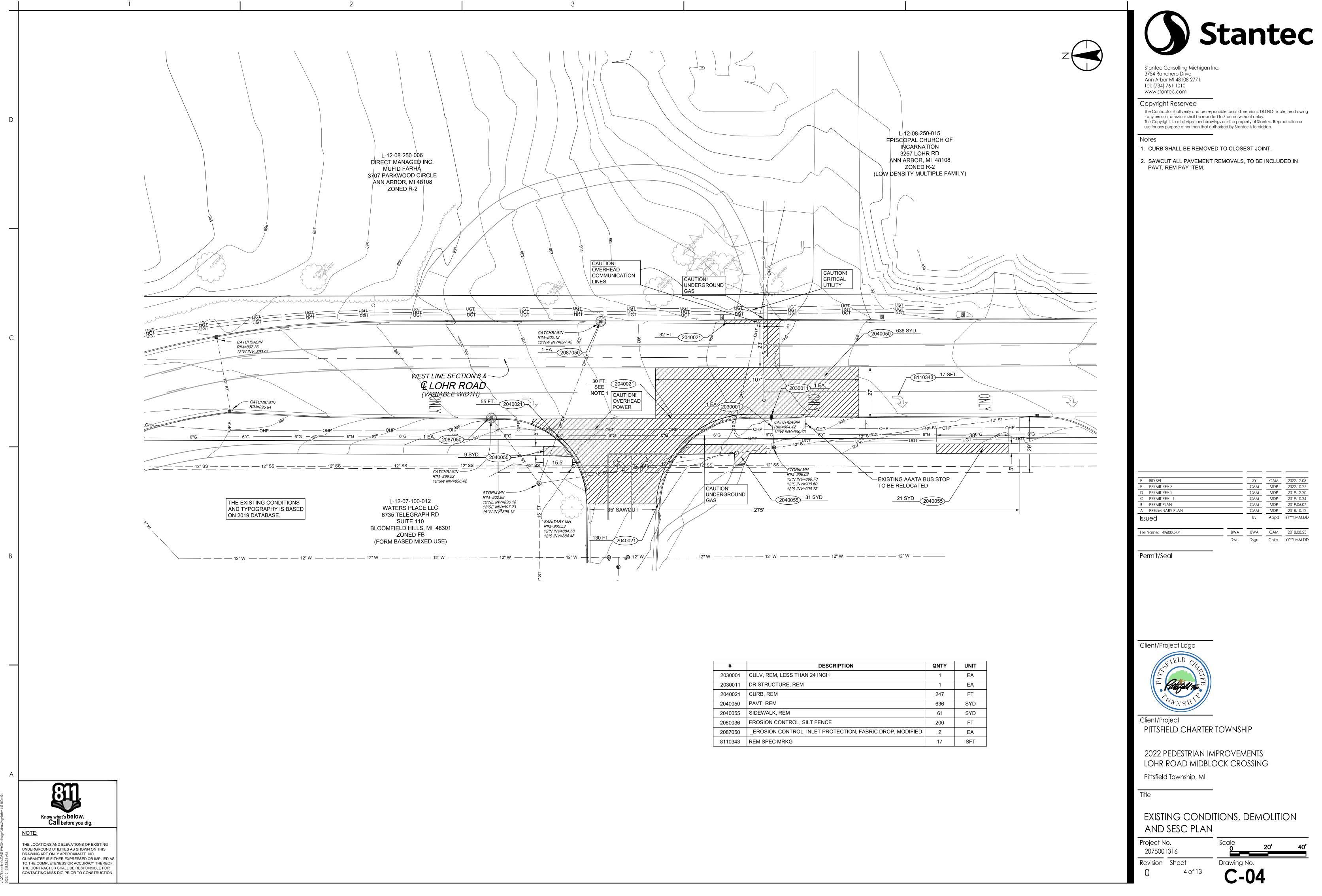
Title

TYPICAL CROSS SECTIONS AND DETAILS

Scale

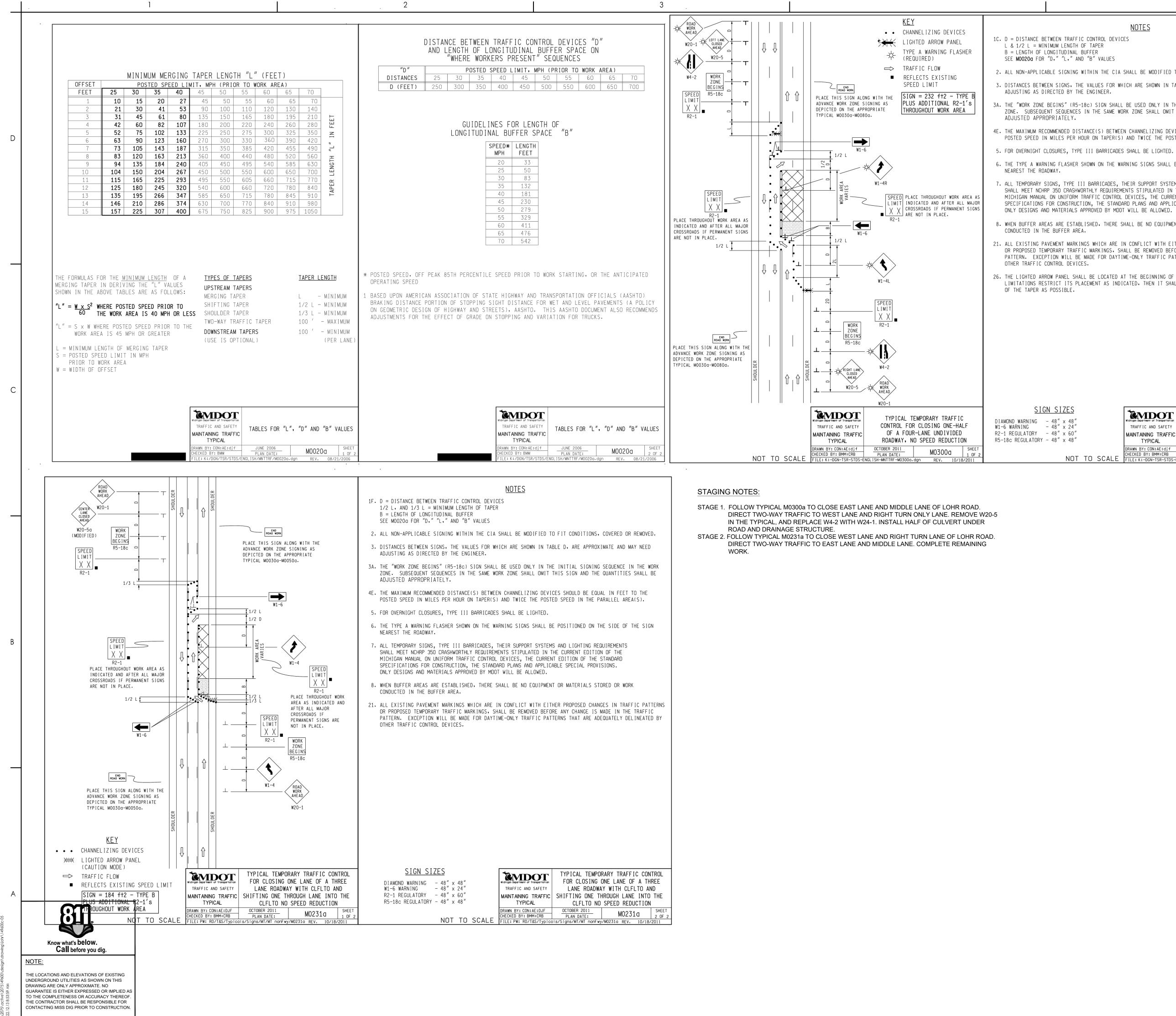
Project No. 2075001316 Revision Sheet 3 of 13





#	DESCRIPTION
2030001	CULV, REM, LESS THAN 24 INCH
2030011	DR STRUCTURE, REM
2040021	CURB, REM
2040050	PAVT, REM
2040055	SIDEWALK, REM
2080036	EROSION CONTROL, SILT FENCE
2087050	_EROSION CONTROL, INLET PROTECTION, FABRIC DROP, MODIF
8110343	REM SPEC MRKG

		•		
Project No. 2075001316		Scale O	20'	40'
Revision 0	Sheet 4 of 13	Drawing N	10. 04	



<u>NOTES</u>

1C. D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES L & 1/2 L = MINIMUM LENGTH OF TAPER B = LENGTH OF LONGITUDINAL BUFFER SEE MOO2Od 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).

6. THE TYPE A WARNING FLASHER SHOWN ON THE WARNING SIGNS SHALL BE POSITIONED ON THE SIDE OF THE SIGN

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

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

26. THE LIGHTED ARROW PANEL SHALL BE LOCATED AT THE BEGINNING OF THE TAPER AS SHOWN. WHEN PHYSICAL LIMITATIONS RESTRICT ITS PLACEMENT AS INDICATED, THEN IT SHALL BE PLACED AS CLOSE TO THE BEGINNING

<u>SN SIZES</u>			Č MDOT			
- 48″ × 48″			Michigan Department of Transportation		EMPORARY TRAFFI	· .
- 48" x 24"			TRAFFIC AND SAFETY	CONTROL FOR	R CLOSING ONE-HA	ALF
- 48" x 60"			MAINTAINING TRAFFIC	OF A FOUF	R-LANE UNDIVIDED)
- 48" × 48"			TYPICAL	ROADWAY, N	O SPEED REDUCTI	ON
			DRAWN BY: CON:AE:djf	OCTOBER 2011	M0300a	SHEET
NOT	T 0		CHECKED BY: BMM:CRB	PLAN DATE:	MO2000	2 OF 2
NUT	ΙU	SCALE	FILE: K:-DGN-TSR-STDS-E	NGLISH-MNTTRF-M0300a.	dgn REV. 10/1	8/2011



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Notes

- 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.



Client/Project PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING Pittsfield Township, Ml

Title

BID SE

lssued

PERMIT REV 3

PERMIT REV 2

PERMIT REV

PERMIT PLAN

File Name: 149600C-05

Permit/Seal

TEMPORARY TRAFFIC CONTROL PLAN

 SY
 CAM
 2022.12.05

 CAM
 MDP
 2022.10.27

 CAM
 MDP
 2019.12.20

 CAM
 MDP
 2019.10.24

 CAM
 MDP
 2019.06.07

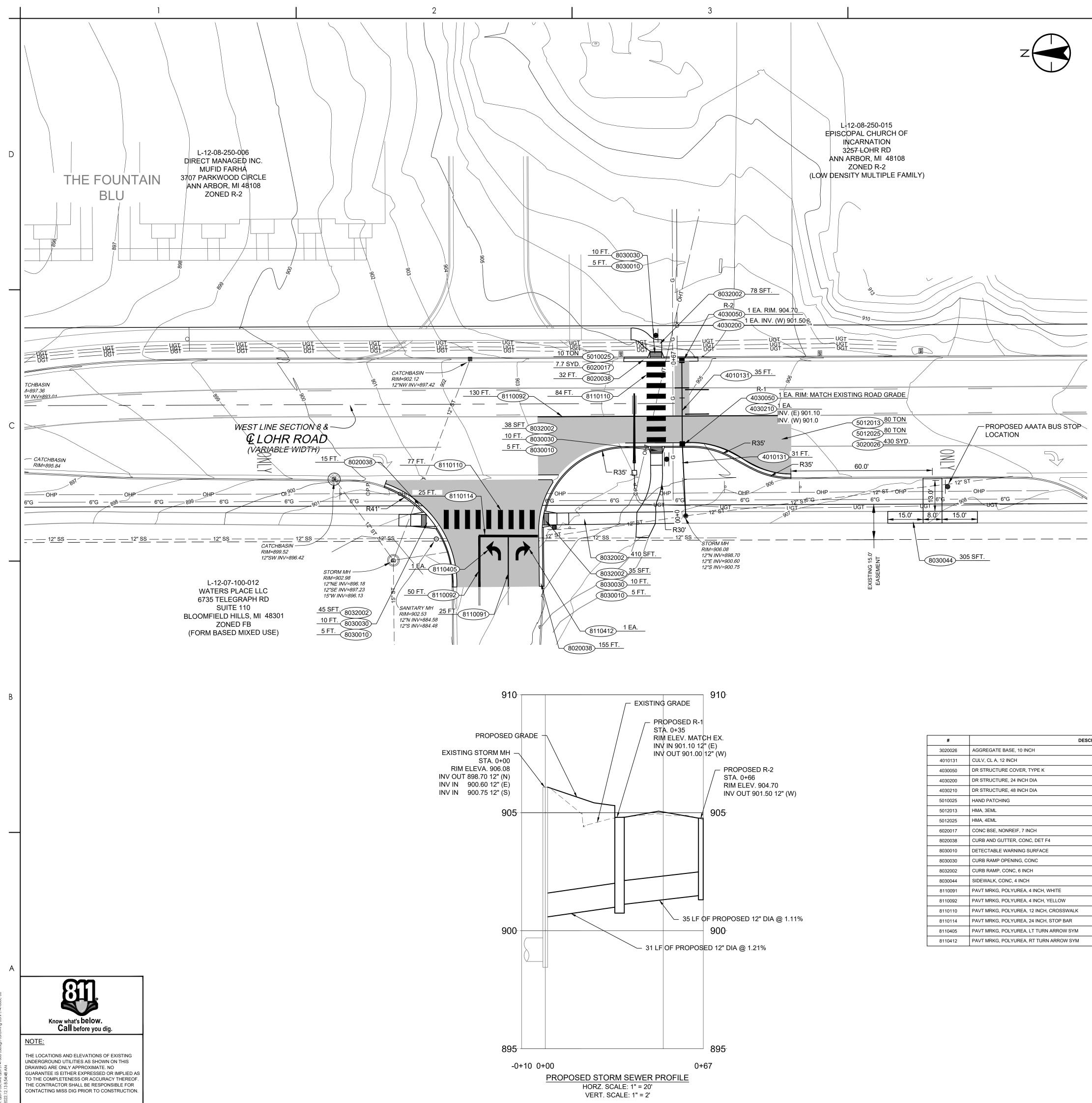
 CAM
 MDP
 2018.10.12

 By
 Appd
 YYY,MM.DD

By Appd YYYY.MM.DD

BWABWACAM2018.08.25Dwn.Dsgn.Chkd.YYYY.MM.DD

Project No. Scale 2075001316 NONE Revision Sheet Drawing No. 5 of 13



#	DESCRIPTION	QNTY	UNIT
3020026	AGGREGATE BASE, 10 INCH	430	SYD
4010131	CULV, CL A, 12 INCH	66	FT
4030050	DR STRUCTURE COVER, TYPE K	2	EA
4030200	DR STRUCTURE, 24 INCH DIA	1	EA
4030210	DR STRUCTURE, 48 INCH DIA	1	EA
5010025	HAND PATCHING	10	TON
5012013	HMA, 3EML	80	TON
5012025	HMA, 4EML	80	TON
6020017	CONC BSE, NONREIF, 7 INCH	7.7	SYD
8020038	CURB AND GUTTER, CONC, DET F4	202	FT
8030010	DETECTABLE WARNING SURFACE	20	FT
8030030	CURB RAMP OPENING, CONC	40	FT
8032002	CURB RAMP, CONC, 6 INCH		SFT
8030044	SIDEWALK, CONC, 4 INCH		SFT
8110091	PAVT MRKG, POLYUREA, 4 INCH, WHITE	25	FT
8110092	PAVT MRKG, POLYUREA, 4 INCH, YELLOW	180	FT
8110110	PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK	161	FT
8110114	PAVT MRKG, POLYUREA, 24 INCH, STOP BAR	25	FT
8110405	PAVT MRKG, POLYUREA, LT TURN ARROW SYM	1	EA
8110412	PAVT MRKG, POLYUREA, RT TURN ARROW SYM	1	EA



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F BID SET	BID SET			2022.12.05
E PERMIT REV 3	PERMIT REV 3			2022.10.27
D PERMIT REV 2			MDP	2019.12.20
C PERMIT REV 1			MDP	2019.10.24
B PERMIT PLAN			MDP	2019.06.07
A PRELIMINARY PLAN		CAM	MDP	2018.10.12
Issued		Ву	Appd	YYYY.MM.DD
File Name: 149600C-06	BWA	BWA	САМ	2018.08.25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Permit/Seal

Client/Project Logo

Client/Project PITTSFIELD CHARTER TOWNSHIP

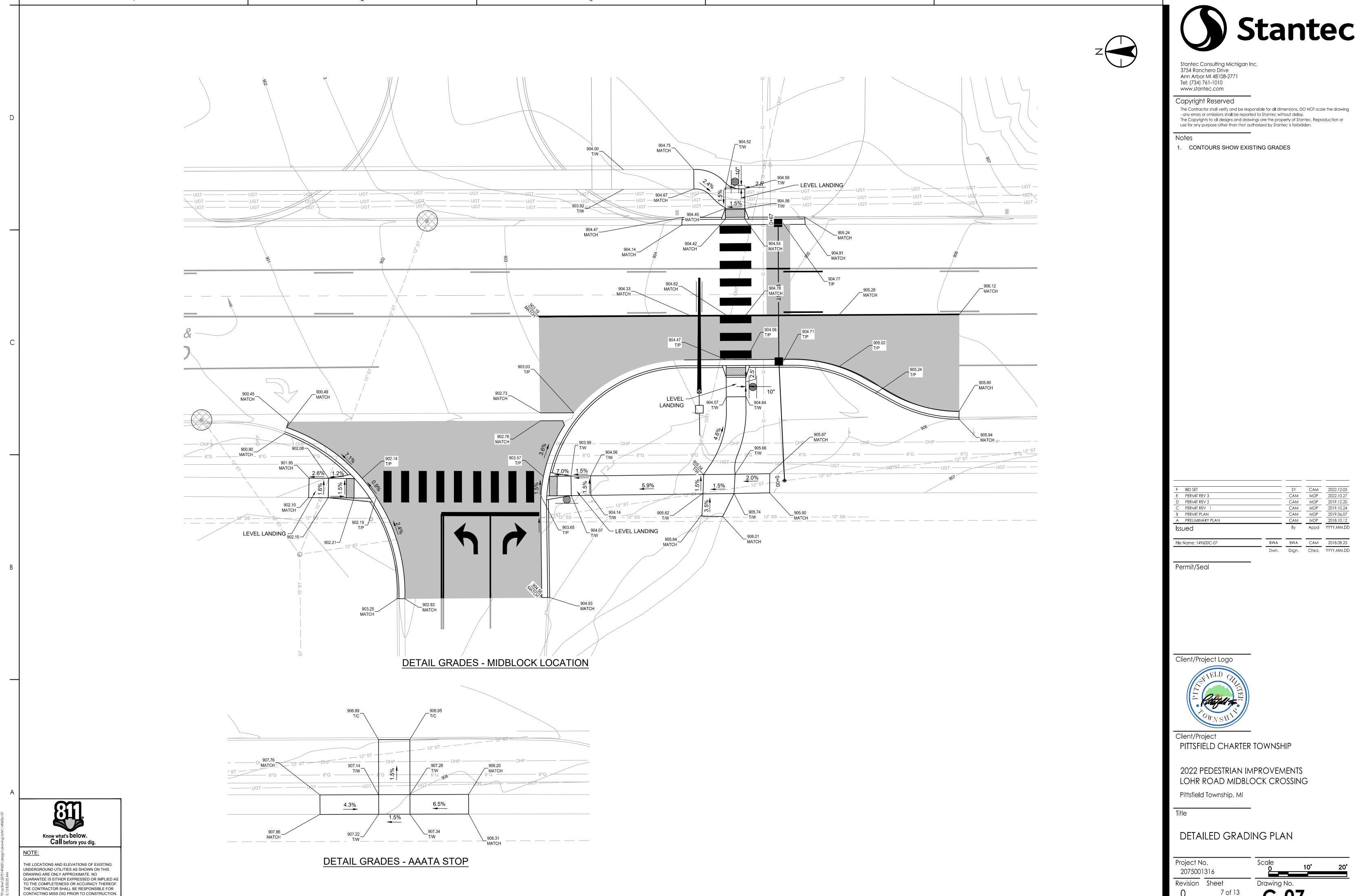
2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING

Pittsfield Township, MI

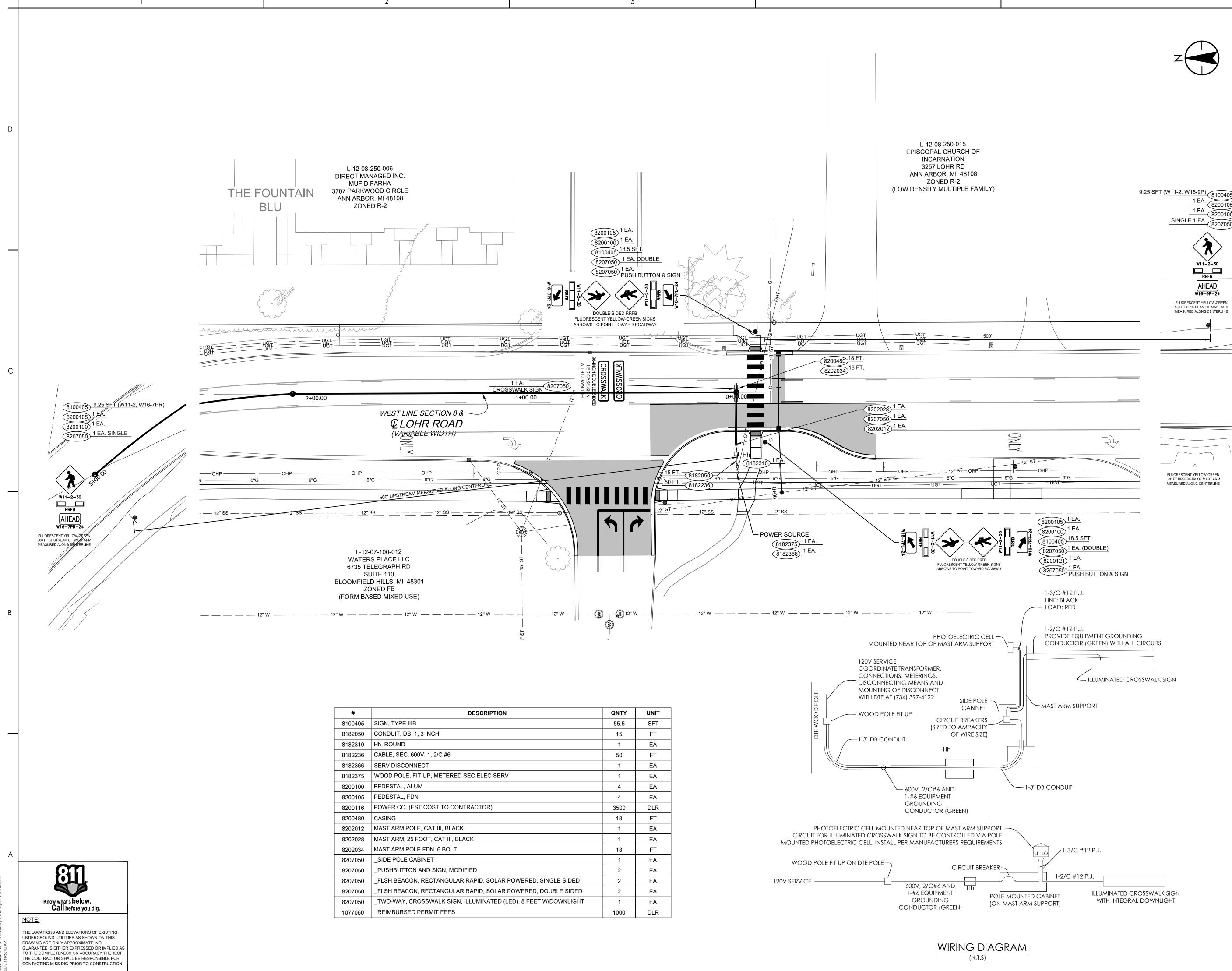
Title

CROSSING CONSTRUCTION PLAN

Project N 2075001		Scale O	20'	40'
Revision 0	RevisionSheet06 of 13		^{10.}	



Project N 207500		Scale 0	10'	20'
Revision	evision Sheet		o.	
0	0 7 of 13)7	

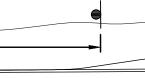




9.25 SFT (W11-2, W16-9P) (8100405) 1 EA. 8200105 1 EA. 8200100

SINGLE 1 EA. 8207050





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Notes

- SEE SHEET C-02 FOR TRAFFIC AND SAFETY NOTES.
- COST OF PHOTOCELL IS INCLUDED IN THE
- COST OF THE CASE SIGN PAY ITEM. UNDERGROUND CONDUIT SHALL BE BURIED MINIMUM 24"
- BELOW GRADE. SERVICE DISCONNECT SHALL BE 60A/60A NEMA 4X STAINLESS
- STEEL PER MDOT STANDARD PLANS SIG-211 SERIES. SIDE POLE CABINET SHALL BE SIZED PER STANDARD PLAN SIG-100 SERIES FLASHING BEACON CABINET AND
- MANUFACTURER'S RECOMMENDATION FOR BRACKETING. PEDESTAL BASE SHALL BE ALUMINUM SQUARE BASE PER MDOT STANDARD PLAN SIG-070 SERIES.
- BANDING IS NOT PERMITTED FOR ATTACHING EQUIPEMENT TO MAST ARMS. ALL ITEMS ATTACHED TO POLES SAHLL BE DONE USING THE BLIND-NUT METHOD. RRFB EQUIPMENT TO BE ATTACHED PER MANUFACTURER'S RECOMMENDATION.
- PUSHBUTTON LOCATIONS SHALL BE MAXIMUM 10" FROM FACE OF BUTTON TO NEAREST LEVEL LANDING EDGE.
- UTILITY OWNERS TO RELOCATE OVERHEAD LINES IF IN CONFLICT WITH SIGNAL EQUIPMENT.
- 0. HAND DIG SIGNAL POLE FOUNDATIONS NEAR UNDERGROUND UTILITIES.
- CONTACT DTE ENERGY FOR ELECTRICAL SERVICE CONNECTION. ESTIMATED COST TO CONTRACTOR \$3,500.
- 2. CONTRACTOR TO COORDINATE INSTALLATION OF TRAFFIC SIGNAL EQUIPEMENT WITH WCRC. SIGNAL ASSEMBLIES MUST BE INSPECTED BY WCRC PRIOR TO INSTALLATION.
- RRFB SHALL BE PER WCRC STANDARD DETAIL WASH-19. 4. MAST ARM DETAILS SHALL BE PER MDOT STANDARD PLAN SIG-032 AND SIG-040 SERIES. MAST ARM FINISH SHALL BE POWDER COATED BLACK.
- CONTRACTOR TO VERIFY STORM SEWER DEPTH PRIOR TO DIRECTIONAL BORE OF CONDUIT.

-					
F	BID SET		SY	CAM	2022.12.05
E PERMIT REV 3			CAM	MDP	2022.10.27
D PERMIT REV 2			CAM	MDP	2019.12.20
C PERMIT REV 1			CAM	MDP	2019.10.24
B PERMIT PLAN			CAM	MDP	2019.06.07
A PRELIMINARY PLAN			CAM	MDP	2018.10.12
Issued			Ву	Appd	YYYY.MM.DD
File Name: 149600C-08			BWA	CAM	2018.08.25
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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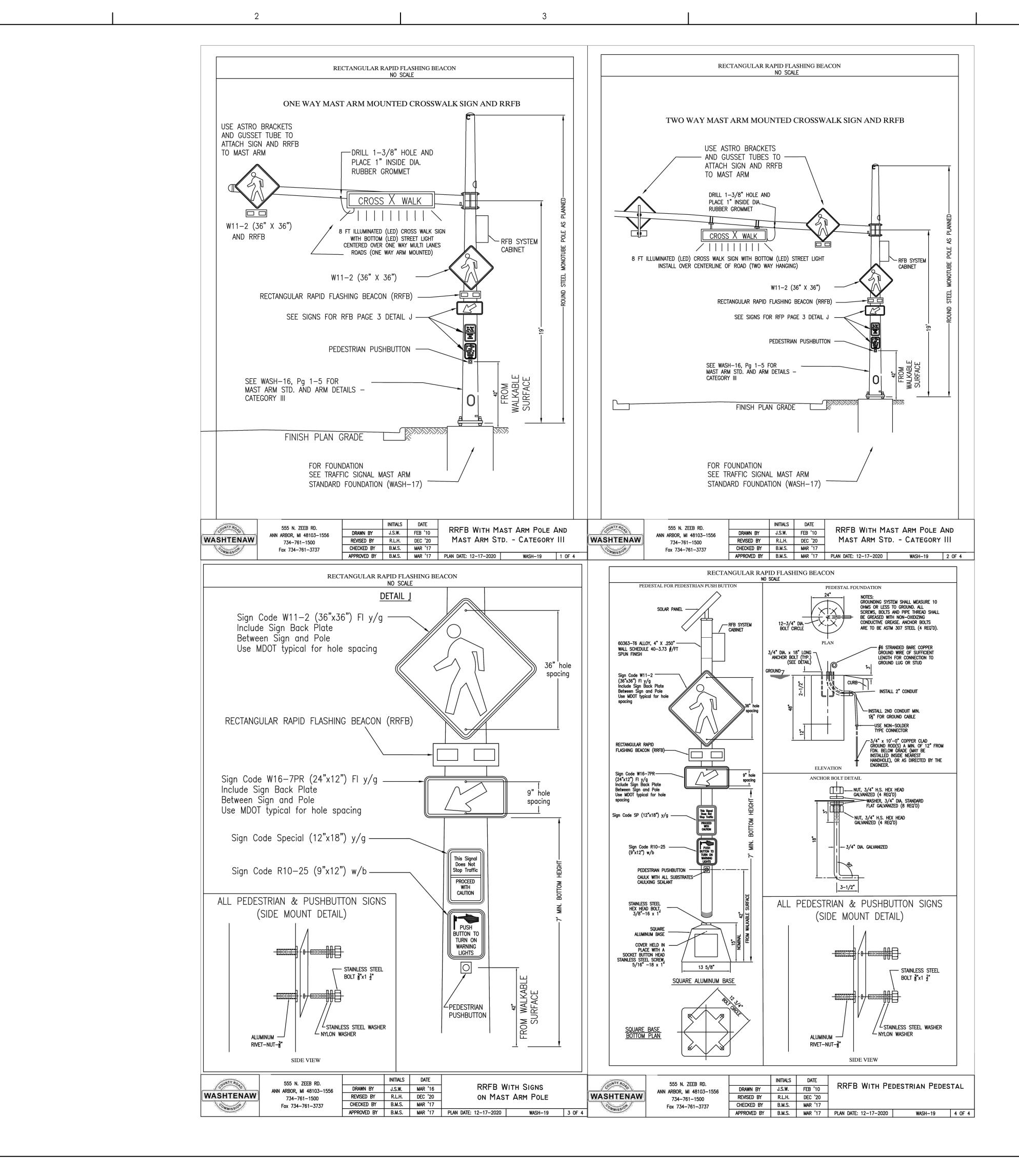
Client/Project PITTSFIELD CHARTER TOWNSHIP

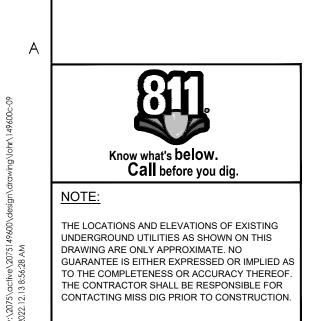
2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING Pittsfield Township, MI

Title

PROPOSED TRAFFIC CONTROL DEVICE PLAN

Project N 207500		Scale O	20'	40'
Revision 0	Sheet 8 of 13	Drawing N	o.)8	





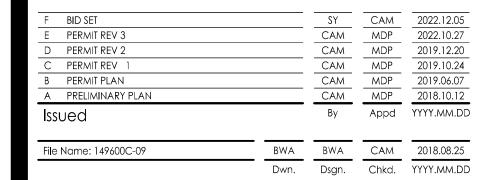


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Pittsfield Township, MI

PITTSFIELD CHARTER TOWNSHIP

2022 PEDESTRIAN IMPROVEMENTS

WCRC STANDARD DETAILS

9 of 13

Scale

NONE

Drawing No.

C-09

LOHR ROAD MIDBLOCK CROSSING

Client/Project Logo

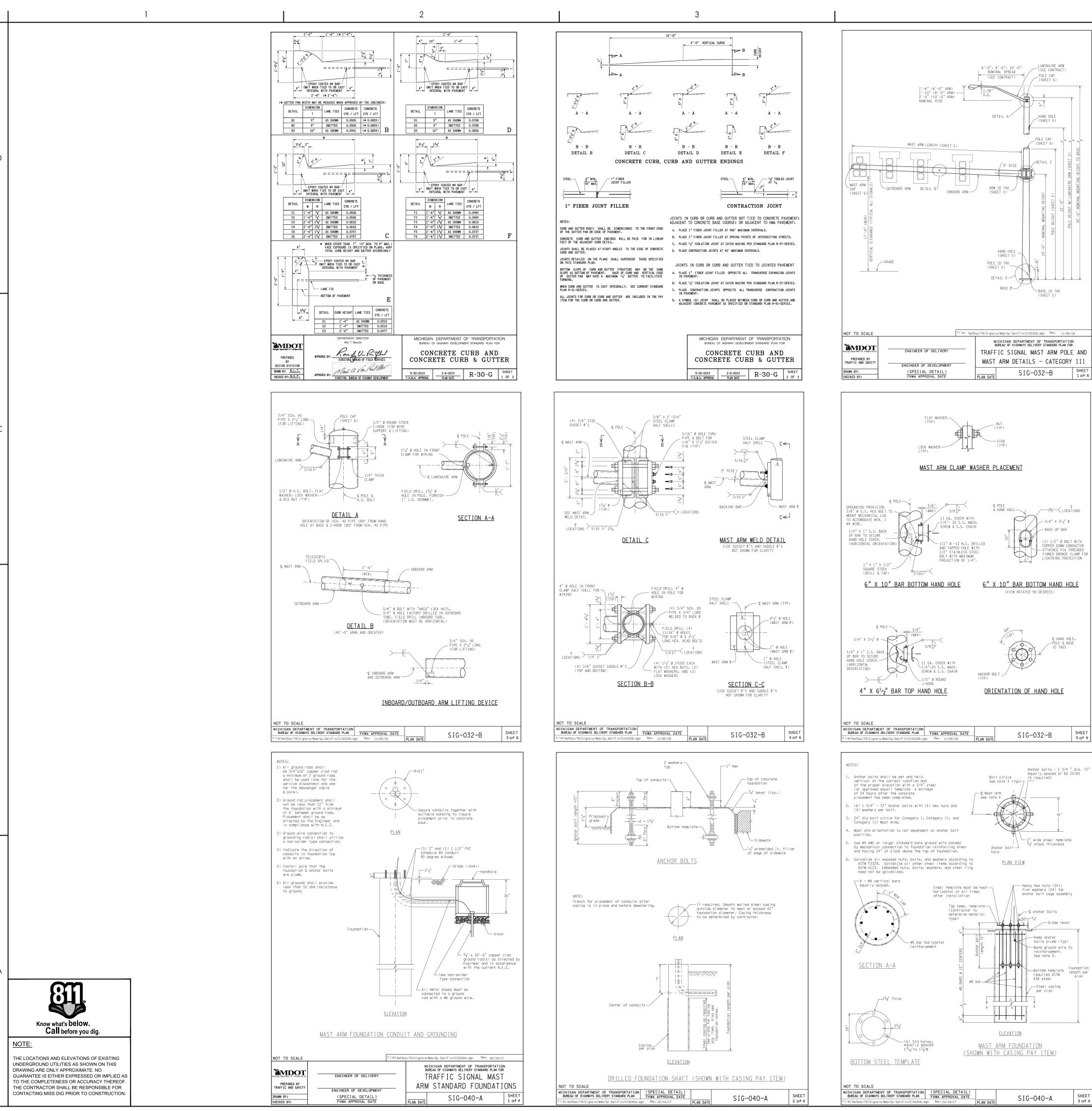
Client/Project

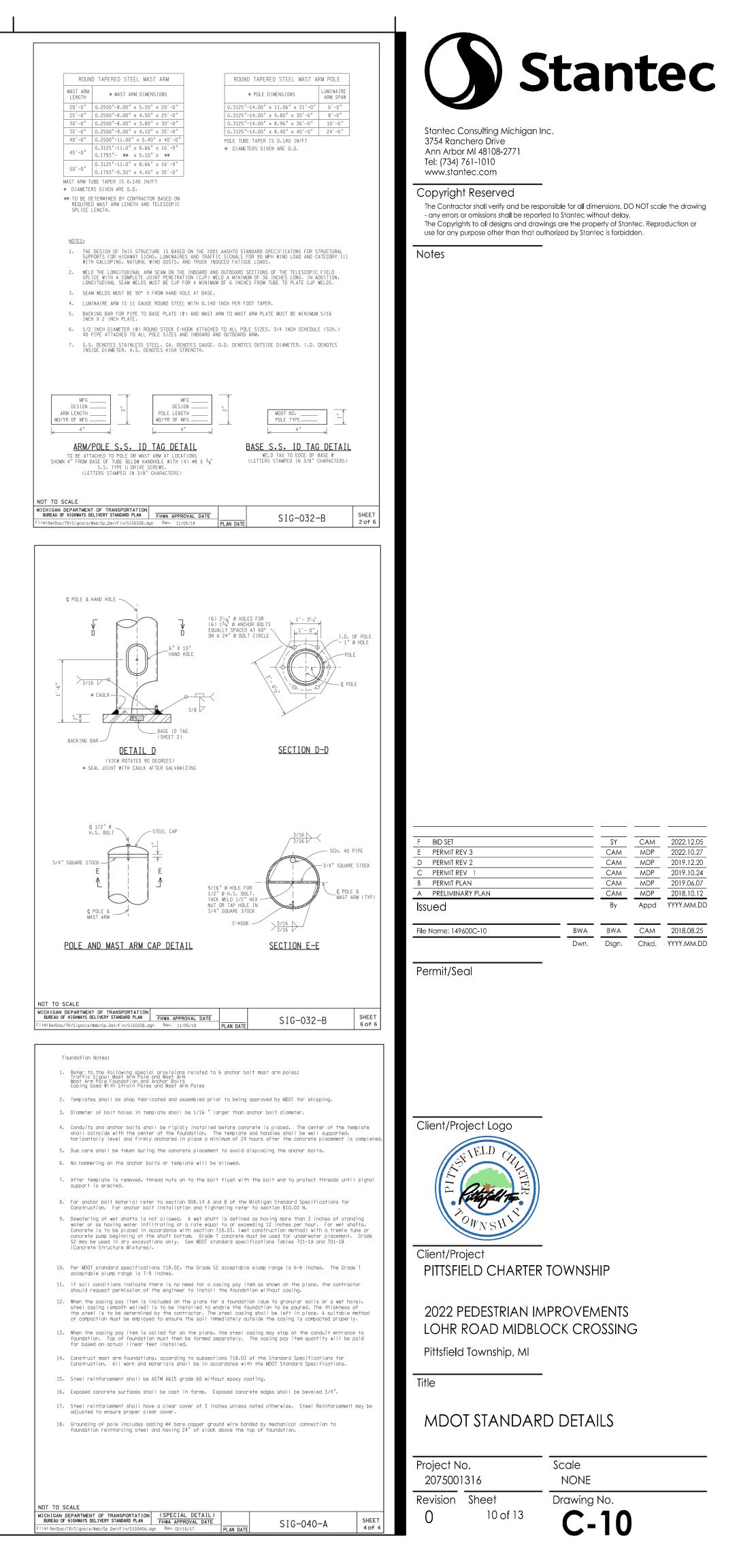
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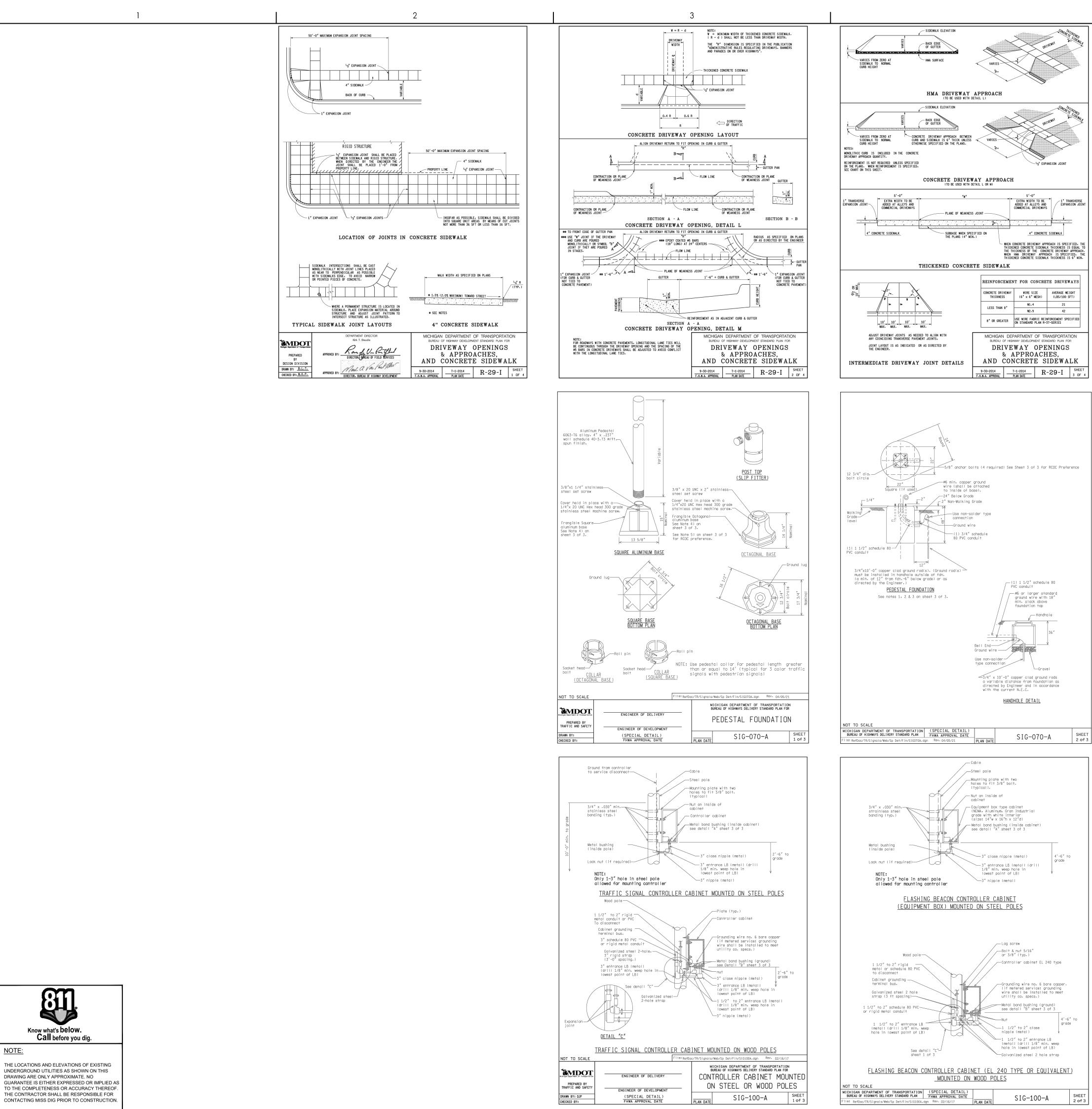
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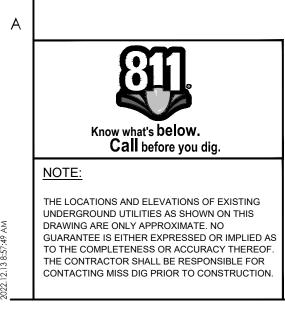
Revision Sheet

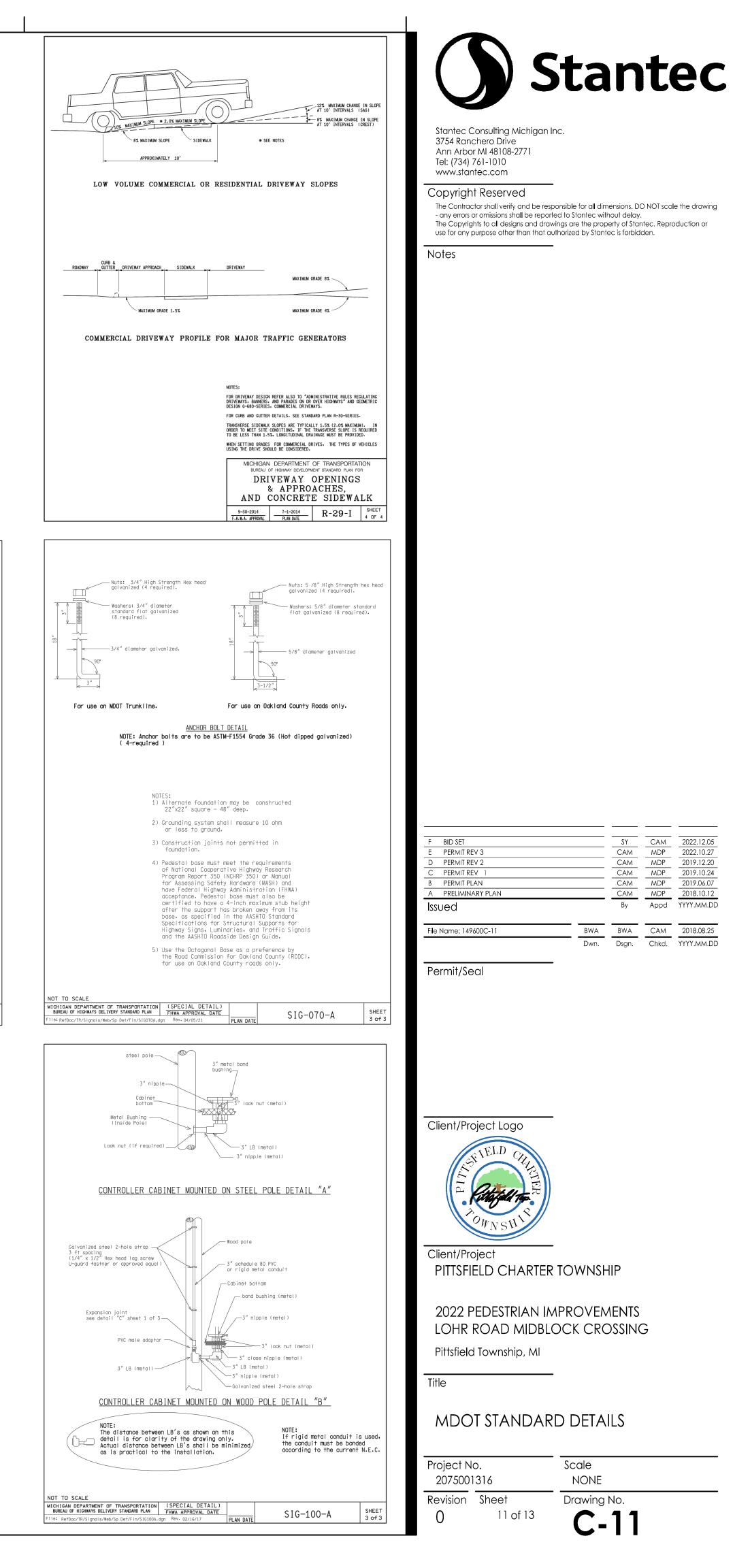


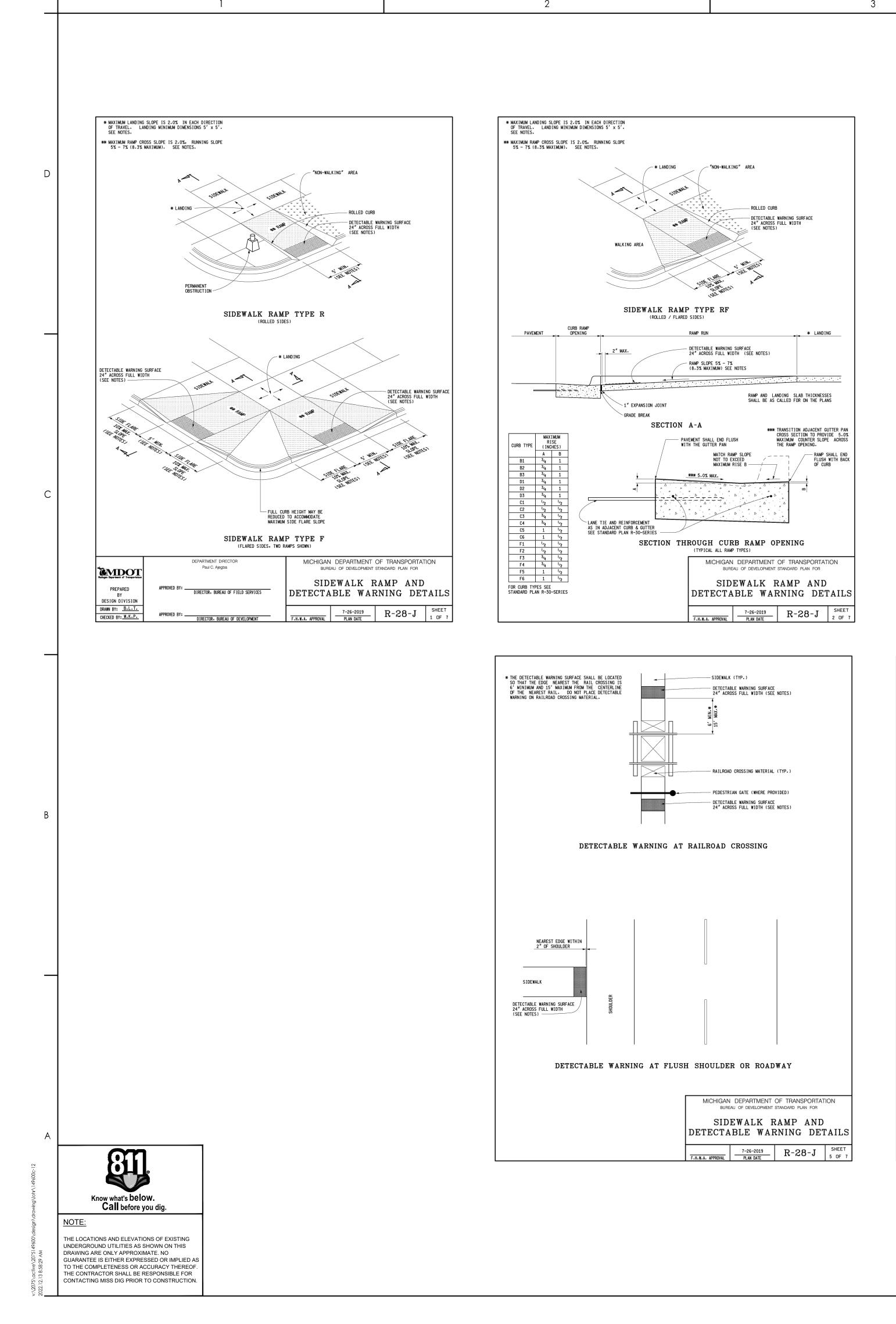


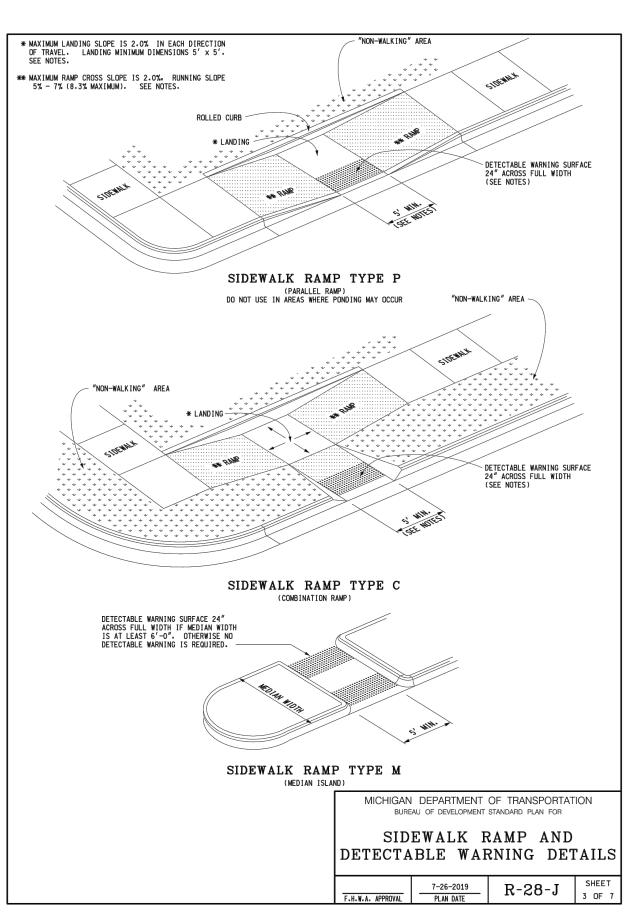
3 of 4

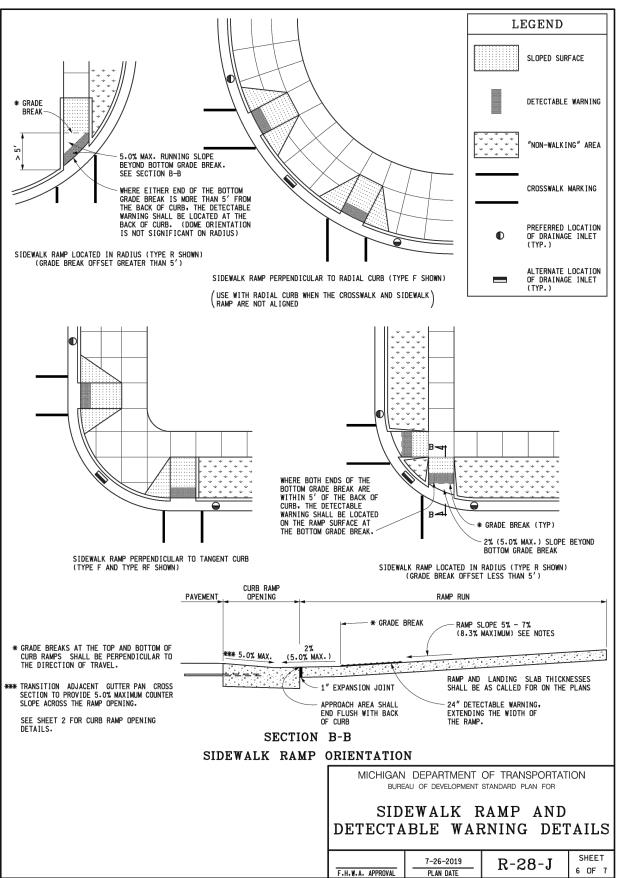


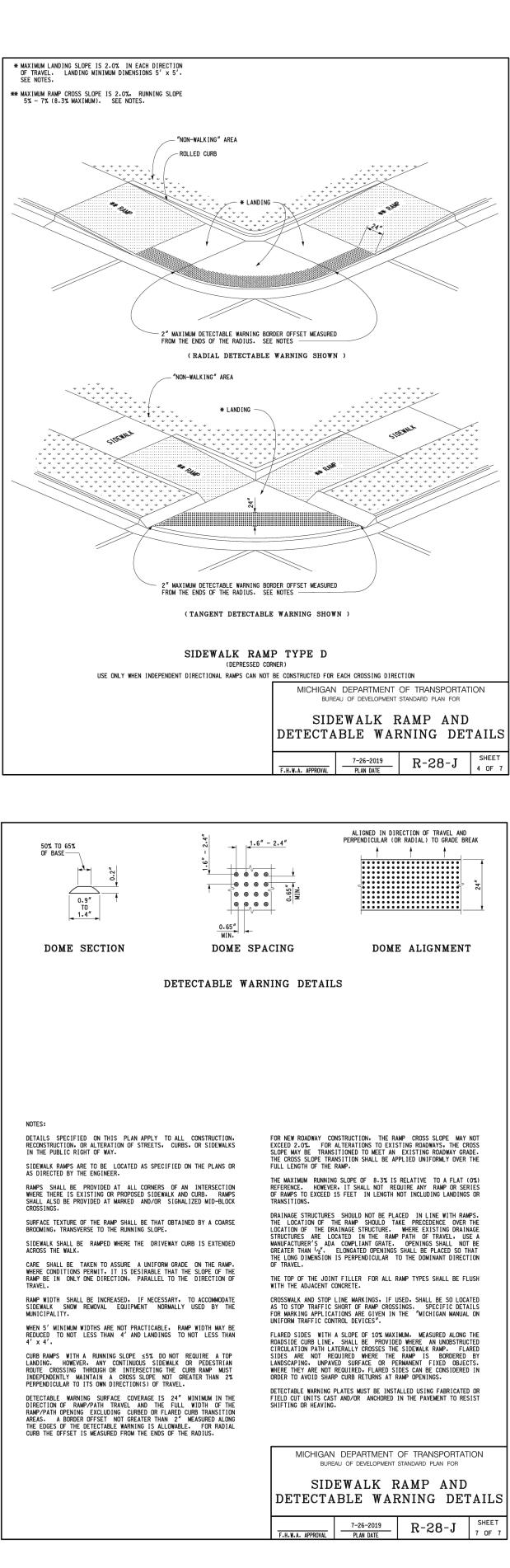












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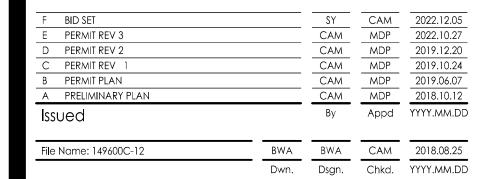
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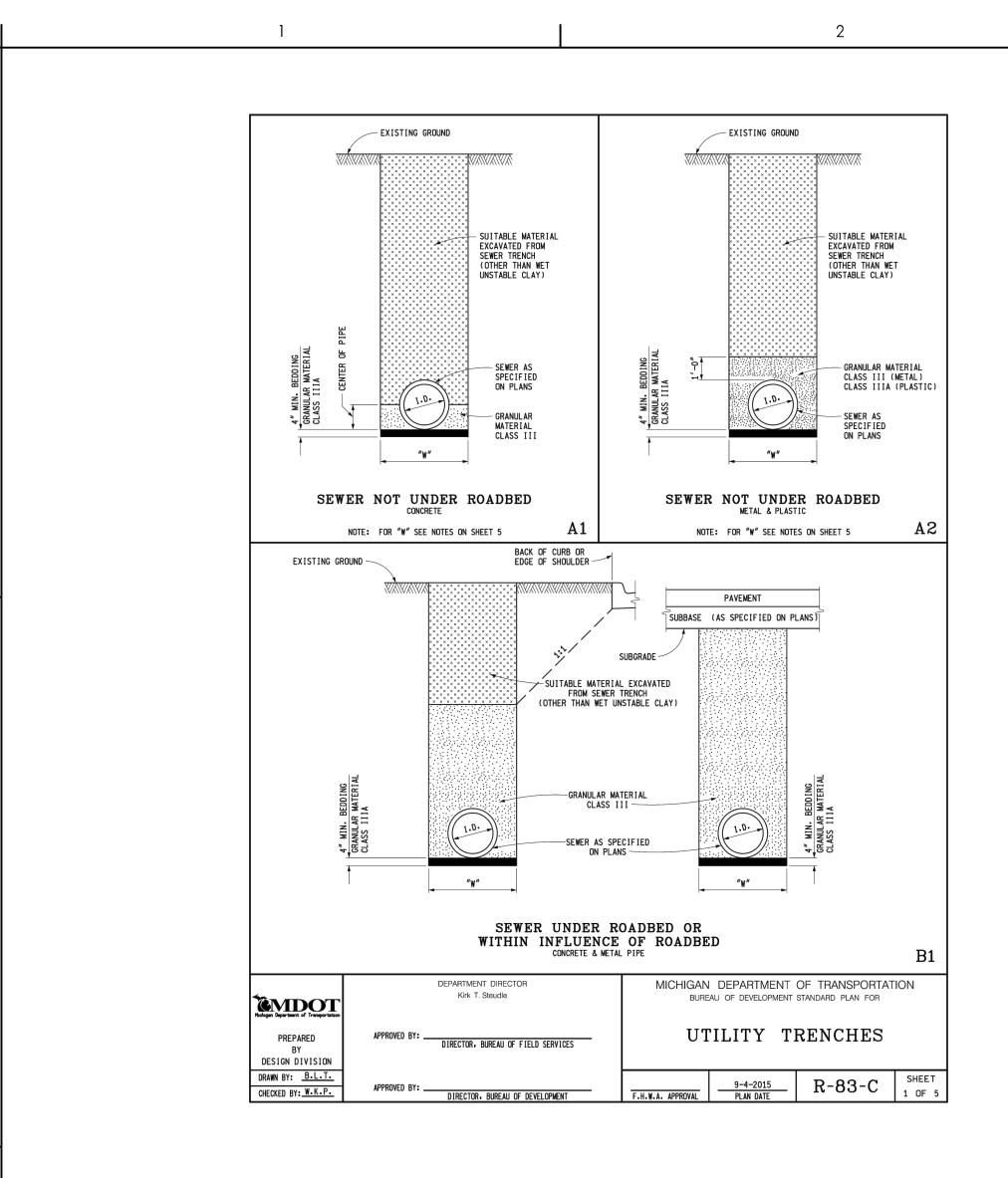
2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING

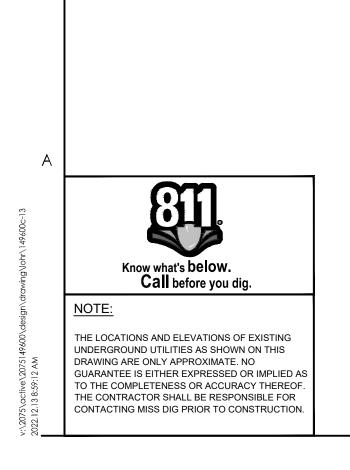
Pittsfield Township, MI

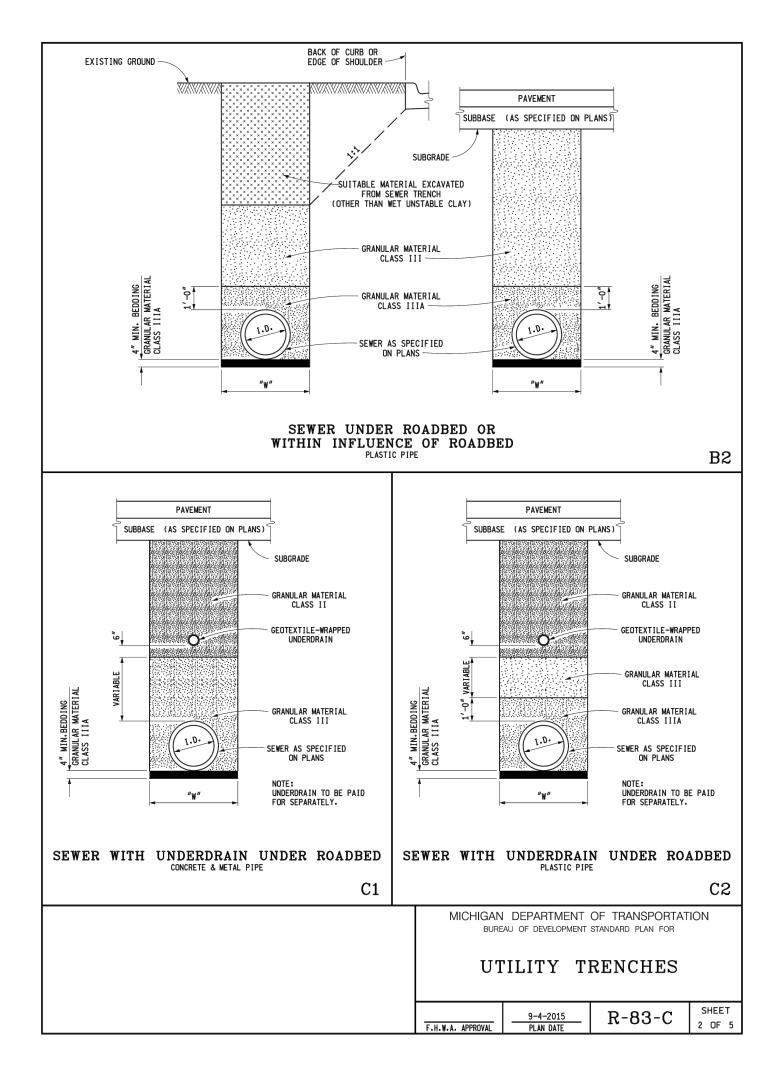
Title

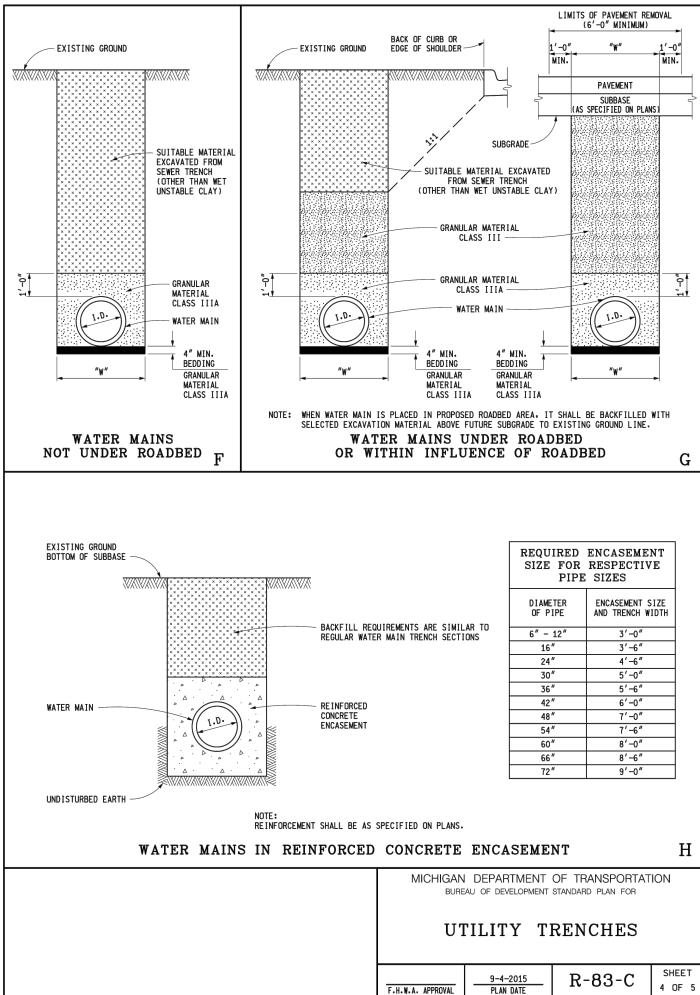
MDOT STANDARD DETAILS

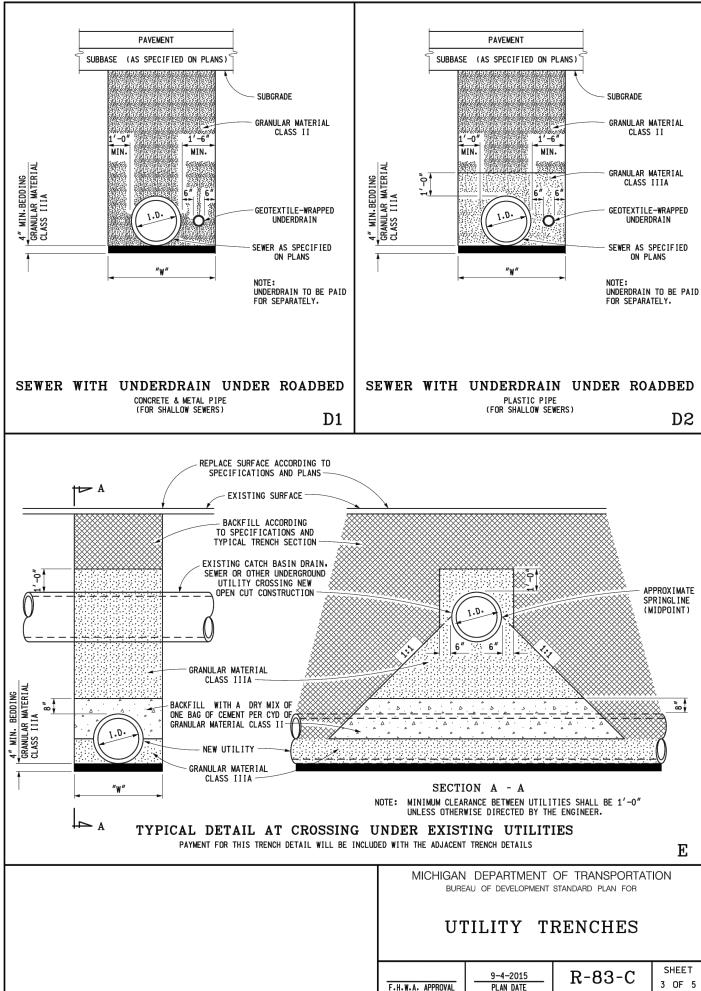
Scale Project No. NONE 2075001316 Revision Sheet Drawing No. **C-12** 12 of 13

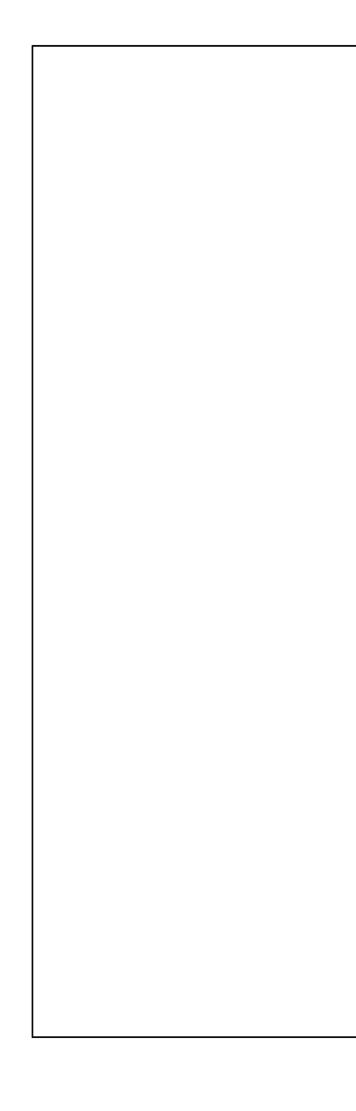












NOTES:

BACKFILLING SHALL BE ACCORDING TO THE STANDARD SPECIFICATION.

THE FOLLOWING ARE MINIMUM TRENCH WIDTHS:

(FEET)

SUFFICIENT TRENCH WIDTH SHALL BE PROVIDED TO ALLOW FREE WORKING SPACE AND TO PERMIT COMPACTING THE BACKFILL AROUND THE PIPE.

I.D. PIPE SIZE (INCHES) 18 21 24 30 36 "W"

TRENCH WIDTH 3.0 3.5 4.0 5.0 6.0

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TRENCH WIDTH 11.5 12.0 12.5 13.0 13.5 14.0 (FEET)

ESTIMATED PAVEMENT REMOVAL WIDTH IS TO BE TRENCH WIDTH "W" PLUS 1'-- EACH SIDE OF THE TRENCH (6'--O" MINIMUM).

MICHIGAN DEPARTMENT OF TRANSPORTATION

BUREAU OF DEVELOPMENT STANDARD PLAN FOR

UTILITY TRENCHES

<u>9-4-2015</u> R-83-C

SHEET

5 OF 5

Project No.		Scale	
2075001316		NONE	
Revision	Sheet	Drawing No.	
0	13 of 13	C-13	

Title

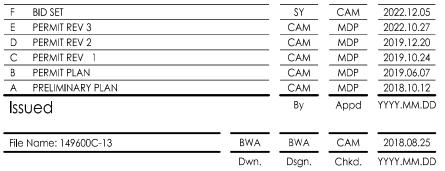
Pittsfield Township, MI

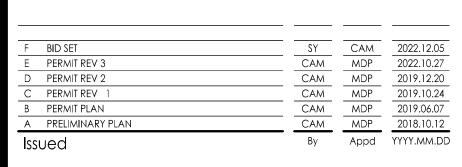
2022 PEDESTRIAN IMPROVEMENTS LOHR ROAD MIDBLOCK CROSSING

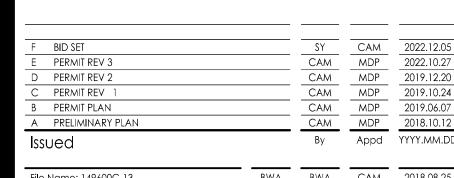
Client/Project PITTSFIELD CHARTER TOWNSHIP

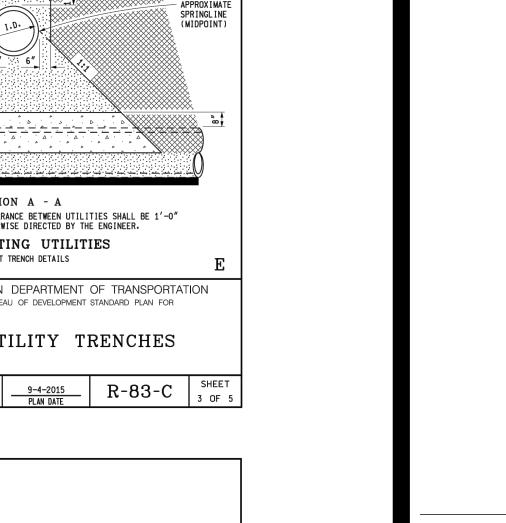


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