IRON BELLE TRAIL

VAN BUREN TOWNSHIP SECTON J

VAN BUREN TOWNSHIP WAYNE COUNTY, MI







PROJECT CONTACTS

OWNER/APPLICANT/DEVELOPER: VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN TWP, MI 48111 CONTACT: ELIZABETH RENAUD DIRECTOR OF COMMUNITY SERVICES PHONE: (734) 699-8900 EXT 9258 EMAIL: ERENAUD@VANBUREN-MI.ORG

CIVIL ENGINEER:

PEA, INC. 7927 NEMCO WAY, SUITE 115 BRIGHTON, MI 48116 CONTACT: JILL RICKARD, P.E. PHONE: (810) 900-9044 EMAIL: JRICKARD@PEAGROUP.COM

LANDSCAPE ARCHITECT:

PEA, INC. 7927 NEMCO WAY, SUITE 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, P.L.A. PHONE: (517) 546-8583 FAX: (517) 546-8973 EMAIL: JSMITH@PEAGROUP.COM

ELDRIDGE.CHAMBERS@NSCORP.COM

NORFOLK SOUTHERN NOTE:

WAYNE COUNTY NOTE:

WAYNE COUNTY R 20-656 REVIEW NUMBER.

GREAT LAKES DIVISION MP D-21.73.
CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC DEPARTMENT BEFORE STARTING

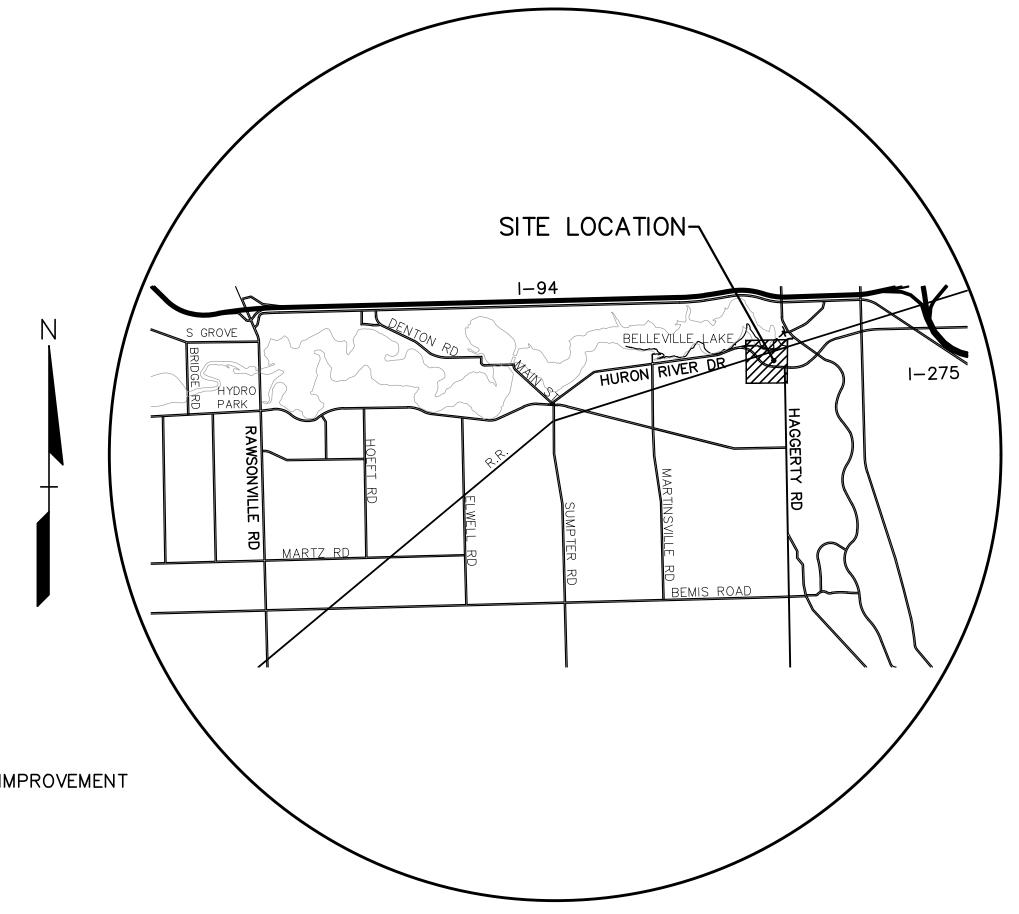
CONSTRUCTION AND FOR ADDITIONAL UNDERGROUND INFORMATION AT (734) 955-2154. ROMULUS, MICHIGAN -NS FILE CX1114226 -HURON RIVER DRIVE AT-GRADE SIDEWALK

CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC DEPARTMENT BEFORE STARTING CONSTRUCTION AND FOR ADDITIONAL UNDERGROUND INFORMATION AT (734) 955-2154.

NORFOLK SOUTHERN CORPORATION: 650 W PEACHTREE STREET, NW., BOX 45 ATLANTA, GA 30308

CONTACT: ELDRIDGE W CHAMBERS, ENGINEER PUBLIC IMPROVEMENT PHONE: (404) 529-1436 FAX: (404) 592-2589

LOCATION MAP NO SCALE



INDEX OF DRAWINGS:

C-0.0 - COVER SHEET

C-1.1 - OVERALL PLAN & NOTES C-1.2 - TRAFFIC CONTROL PLAN

C-2.1 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 1 C-2.2 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 2 C-2.3 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 3

C-2.4 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 4 C-2.5 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 5

C-3.1 - LAYOUT PLAN - SHEET 1 C-3.2 - LAYOUT PLAN - SHEET 2 C-3.3 - LAYOUT PLAN - SHEET 3 C-3.4 - LAYOUT PLAN - SHEET 4

C-3.5 - LAYOUT PLAN - SHEET 5

C-4.1 GRADING & EROSION CONTROL PLAN - SHEET 1 C-4.2 GRADING & EROSION CONTROL PLAN - SHEET 2 C-4.3 GRADING & EROSION CONTROL PLAN - SHEET 3 C-4.4 GRADING & EROSION CONTROL PLAN - SHEET 4

C-4.5 GRADING & EROSION CONTROL PLAN - SHEET 5

C-5.1 - DETAIL SHEET 1 C-5.2 - DETAIL SHEET 2 C-5.3 - DETAIL SHEET 3



CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIP



REVISIONS

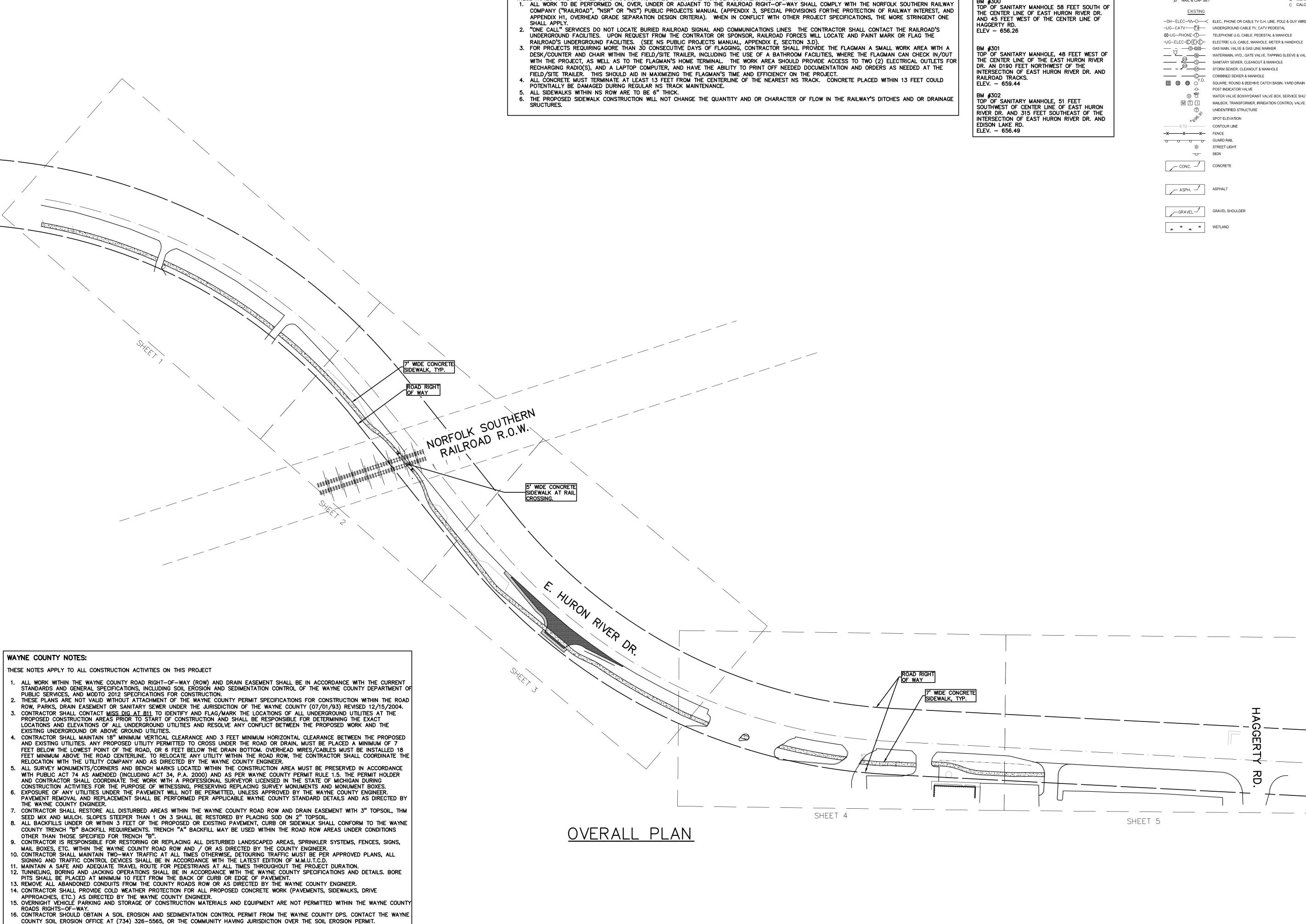
ORIGINAL ISSUE 12/2/20 REVISION 1/27/21

REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

COVER SHEET

PEA JOB NO.	2020-009
P.M.	J
DN.	JN
DES.	JN
DRAWING NUMBER:	



17. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 955-2154.

18. CONTRACTOR SHALL NOTIFY WAYNE COUNTY 72 HOURS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734)

NORFOLK SOUTHERN CORPORATION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES WITHIN THE NORFOLK SOUTHERN RIGHT OF WAY

(GPS DERIVED - NAVD 88) BM #300
TOP OF SANITARY MANHOLE 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR.

BENCHMARKS

LEGEND IRON FOUND BRASS PLUG SET SEC. CORNER FOUND MONUMENT FOUND R RECORDED MAIL FOUND MONUMENT SET M MEASURED Ø NAIL & CAP SET C CALCULATED -OH-ELEC-VV-O── ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV UNDERGROUND CABLE TV, CATV PEDESTAL

t: 844.813.2949 www.peagroup.com

— _ _ _ GAS MAIN, VALVE & GAS LINE MARKER — WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE SANITARY SEWER, CLEANOUT & MANHOLE — - STORM SEWER, CLEANOUT & MANHOLE COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE SPOT ELEVATION 671

CONTOUR LINE -x----x---x-**_X** FENCE 0 0 0 ☆ STREET LIGHT SIGN

GRAVEL SHOULDER



SCALE: 1" = 80'



CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIF



REVISIONS ORIGINAL ISSUE 12/2/20 **REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21** REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

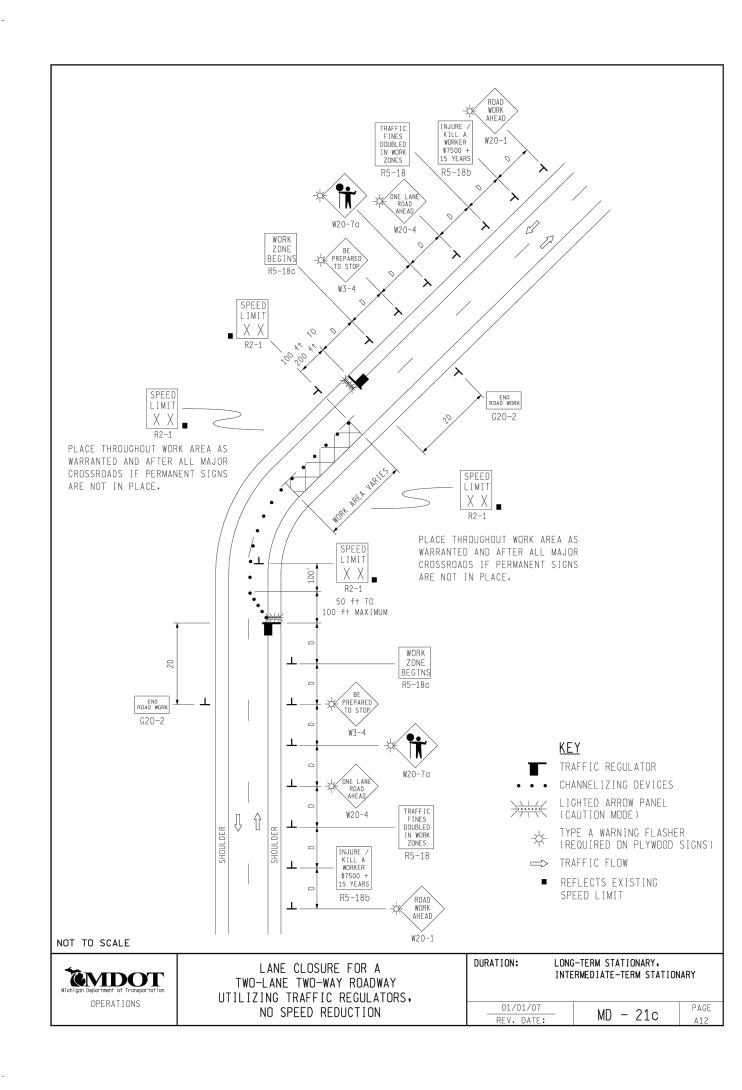
ORIGINAL ISSUE DATE: DECEMBER 3, 2020

OVERALL SHEET

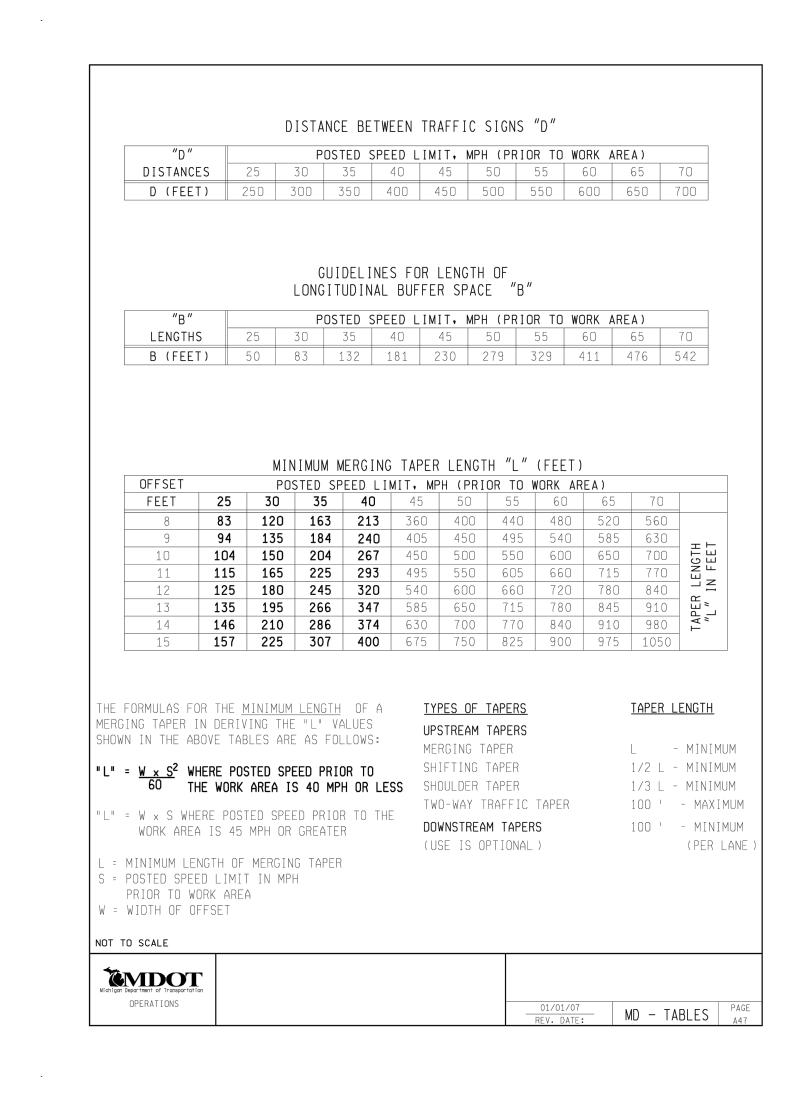
PEA JOB NO. 2020-0095 JMR DES. DRAWING NUMBER:

TRAFFIC CONTROL PLAN

E. HURON RIVER DRIVE



REFER TO MDOT MAINTENANCE WORK ZONE TRAFFIC CONTROL GUIDELINES FOR TRAFFIC CONTROL. DEVIATIONS MUST BE APPROVED BY THE ENGINEER.



LEGEND IRON FOUND RASS PLUG SET SEC. CORNER FOUND MONUMENT FOUND R RECORDED MAIL FOUND MONUMENT SET M MEASURED Ø NAIL & CAP SET C CALCULATED -OH-ELEC-W-O- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL -UG-ELEC-E-E- ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE — _ GAS MAIN, VALVE & GAS LINE MARKER SANITARY SEWER, CLEANOUT & MANHOLE

— — STORM SEWER, CLEANOUT & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF

M T I MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE 671.21 SPOT ELEVATION 671 -----670 ------ CONTOUR LINE **-X---X-** FENCE -x----x---x-0 0 0 0 ☆ STREET LIGHT SIGN _ ∠ CONC. ✓

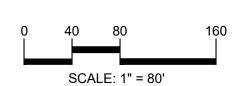
ASPH. ASPHALT GRAVEL GRAVEL SHOULDER 787 787 MELTAND



GROUP

t: 844.813.2949

www.peagroup.com





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD



CHARTER TOWNSHIP PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIP

VAN BUREN, MICHIGAN



REVISIONS ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222

REVISION PER TWP 1/24/24

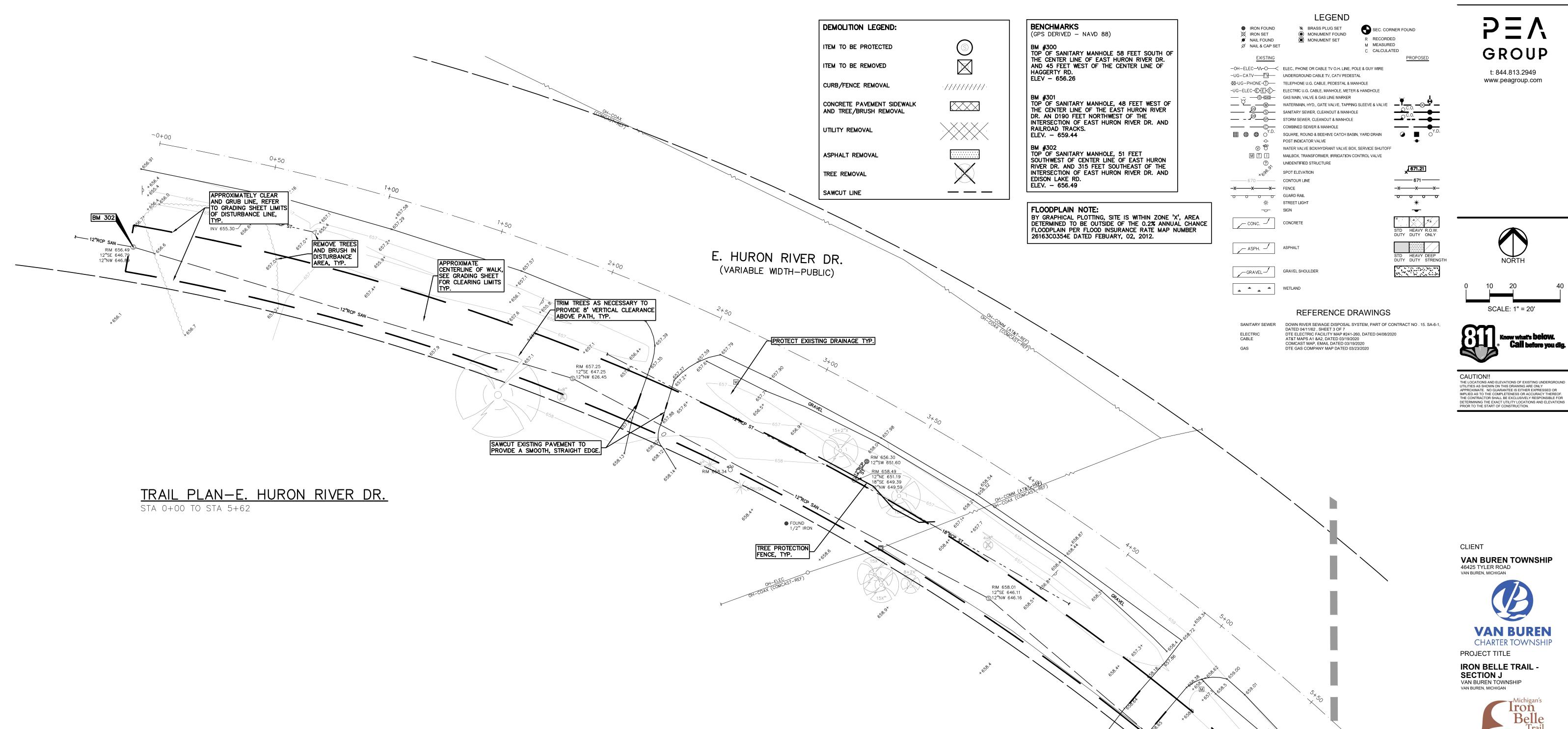
ORIGINAL ISSUE DATE:

DECEMBER 3, 2020 DRAWING TITLE

TRAFFIC CONTROL SHEET

2020-0095 PEA JOB NO. JMR DES. DRAWING NUMBER:

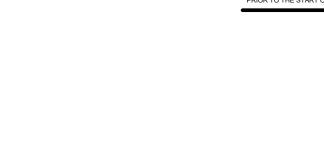
NOT FOR CONSTRUCTION



GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- 2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 1. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
- 6. REFER TO SHEET DETAIL SHEET FOR TREE PROTECTION DETAILS.
- . THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.



CLIENT **VAN BUREN TOWNSHIP** 46425 TYLER ROAD VAN BUREN, MICHIGAN

GROUP

t: 844.813.2949

www.peagroup.com

SCALE: 1" = 20'



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIP



REVISIONS ORIGINAL ISSUE 12/2/20 **REVISION 1/27/21** REVISION NORFOLK SOUTHERN 11/10/21

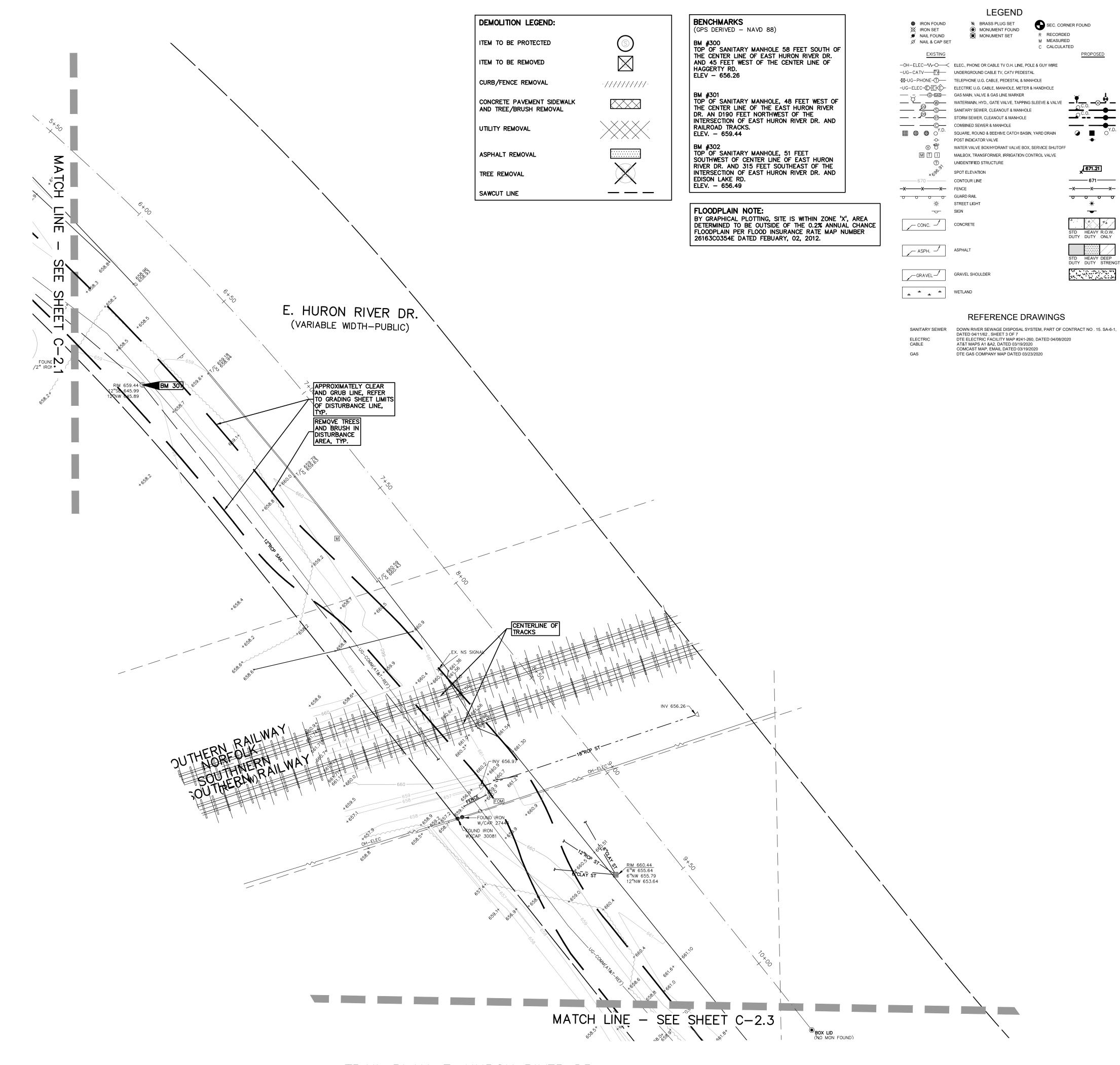
REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP 1/24/24

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

DRAWING TITLE **TOPOGRAPHICAL SURVEY & DEMOLITION** SHEET

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	₹:

1/2" IRON



t: 844.813.2949

www.peagroup.com



671.21

671

-x----x---x-

0 0 0 0

_





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



REVISIONS

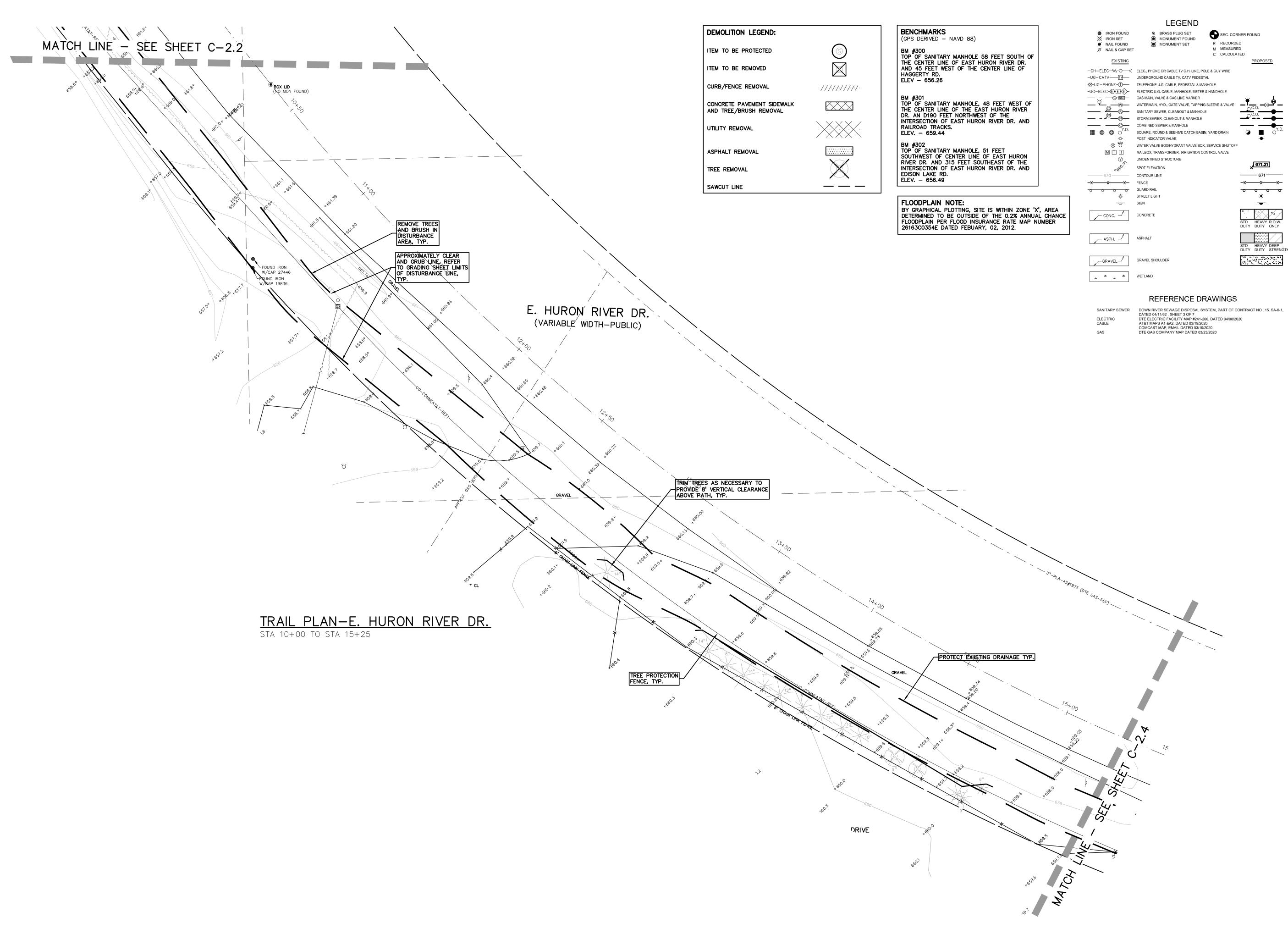
ORIGINAL ISSUE 12/2/20 REVISION 1/27/21

REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

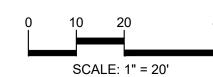
TOPOGRAPHICAL SURVEY & DEMOLITION SHEET

PEA JOB NO. 2020-0095 DRAWING NUMBER:











CAUTION!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE

IRON BELLE TRAIL SECTION J

VAN BUREN TOWNSHIP
VAN BUREN, MICHIGAN



REVISIONS

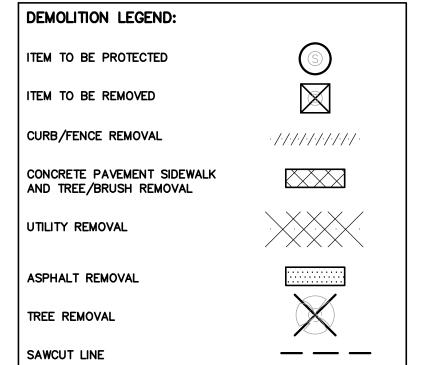
ORIGINAL ISSUE 12/2/20
REVISION 1/27/21
REVISION NORFOLK SOUTHERN 11/10/21

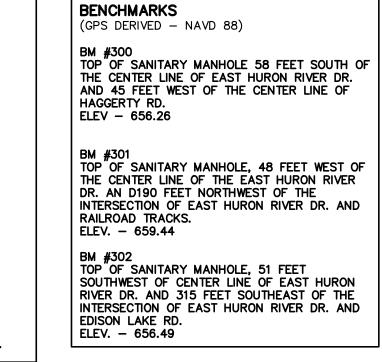
REVISION PER MDOT ORDER 9/01/222
REVISION PER TWP 1/24/24

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

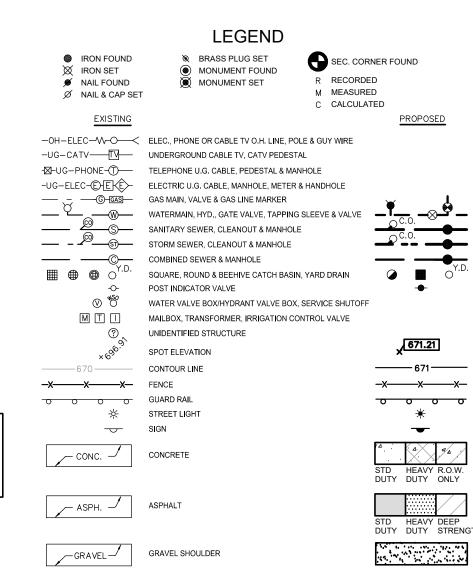
TOPOGRAPHICAL
SURVEY &
DEMOLITION
SHEET

PEA JOB NO. 2020-0095
P.M. JTS
DN. JMR
DES. JMR
DRAWING NUMBER:



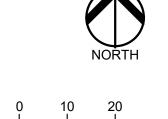


FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA
DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE
FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER
26163C0354E DATED FEBUARY, 02, 2012.



REFERENCE DRAWINGS

THE THE THE THE WETLAND



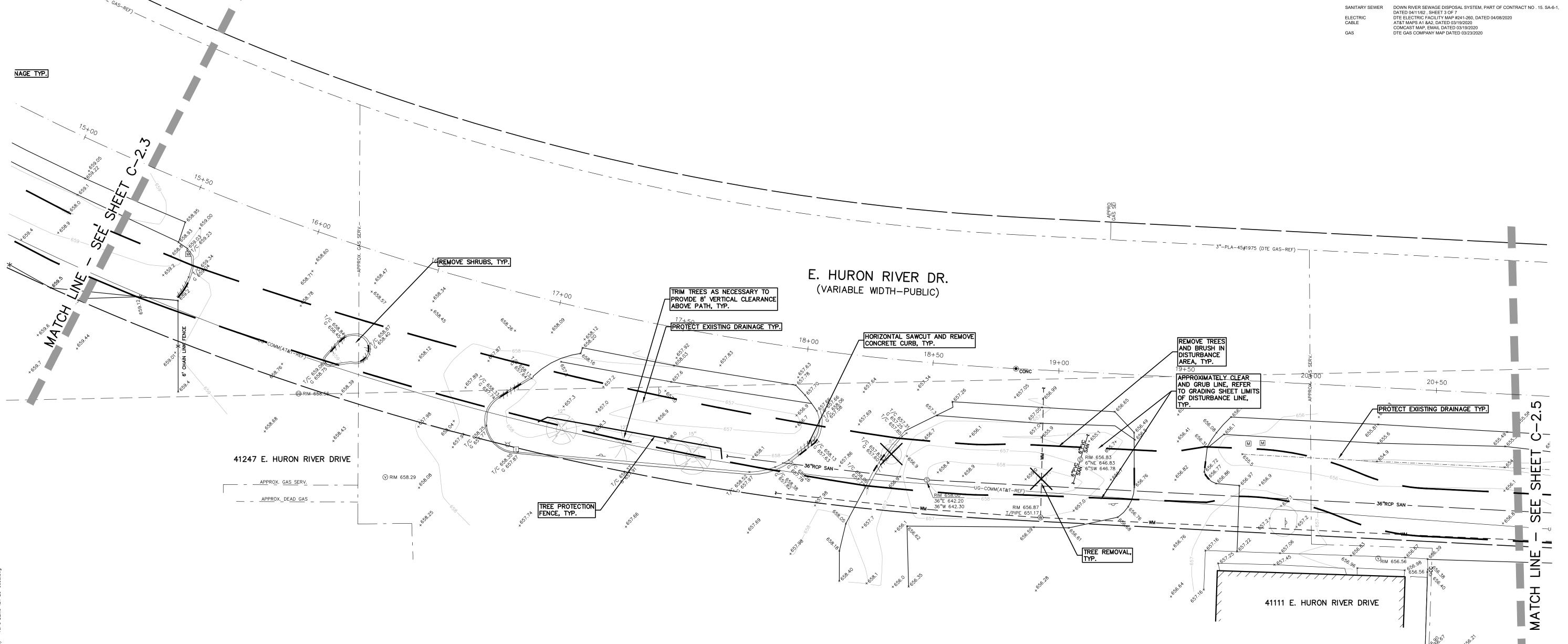
t: 844.813.2949

www.peagroup.com



CAUTION!!

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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



TRAIL PLAN-E. HURON RIVER DR.
STA 15+18 TO STA 20+93



VAN BUREN TOWNSHIP

CLIENT

46425 TYLER ROAD VAN BUREN, MICHIGAN

REVISIONS

ORIGINAL ISSUE 12/2/20

REVISION 1/27/21

REVISION NORFOLK SOUTHERN 11/10/21

REVISION PER MDOT ORDER 9/01/222

REVISION PER TWP 1/24/24

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

TOPOGRAPHICAL
SURVEY &
DEMOLITION
SHEET

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	R:

DEMOLITION LEGEND: ITEM TO BE PROTECTED ITEM TO BE REMOVED CURB/FENCE REMOVAL . /./././././././././. CONCRETE PAVEMENT SIDEWALK AND TREE/BRUSH REMOVAL UTILITY REMOVAL ASPHALT REMOVAL TREE REMOVAL SAWCUT LINE

(GPS DERIVED - NAVD 88) BM #300
TOP OF SANITARY MANHOLE 58 FEET SOUTH OF
THE CENTER LINE OF EAST HURON RIVER DR.
AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD. ELEV - 656.26 BM #301
TOP OF SANITARY MANHOLE, 48 FEET WEST OF
THE CENTER LINE OF THE EAST HURON RIVER
DR. AN D190 FEET NORTHWEST OF THE INTERSECTION OF EAST HURON RIVER DR. AND RAILROAD TRACKS. ELEV. - 659.44 BM #302
TOP OF SANITARY MANHOLE, 51 FEET
SOUTHWEST OF CENTER LINE OF EAST HURON
RIVER DR. AND 315 FEET SOUTHEAST OF THE INTERSECTION OF EAST HURON RIVER DR. AND EDISON LAKE RD. ELEV. - 656.49

BENCHMARKS

FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26163C0354E DATED FEBUARY, 02, 2012.

LEGEND SEC. CORNER FOUND IRON FOUND BRASS PLUG SET MONUMENT FOUND R RECORDED MAIL FOUND MONUMENT SET M MEASURED Ø NAIL & CAP SET C CALCULATED -OH-ELEC-W-O-C ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL -⊠-UG-PHONE-Ū--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE -UG-ELEC-E-E-E- ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE GAS MAIN, VALVE & GAS LINE MARKER

WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE

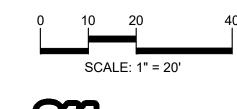
GAS MAIN, VALVE & GAS LINE MARKER

WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE SANITARY SEWER, CLEANOUT & MANHOLE — - STORM SEWER, CLEANOUT & MANHOLE COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF M T MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE 671.21 SPOT ELEVATION -----670 ------ CONTOUR LINE 671 -x----x---x-**-X---X-** FENCE OOOO GUARD RAIL 0 0 0 0 ☆ STREET LIGHT SIGN _ CONC. CONCRETE ASPH. ASPHALT GRAVEL SHOULDER __GRAVEL____

REFERENCE DRAWINGS

SANITARY SEWER DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO . 15. SA-6-1, DATED 04/11/62 , SHEET 3 OF 7

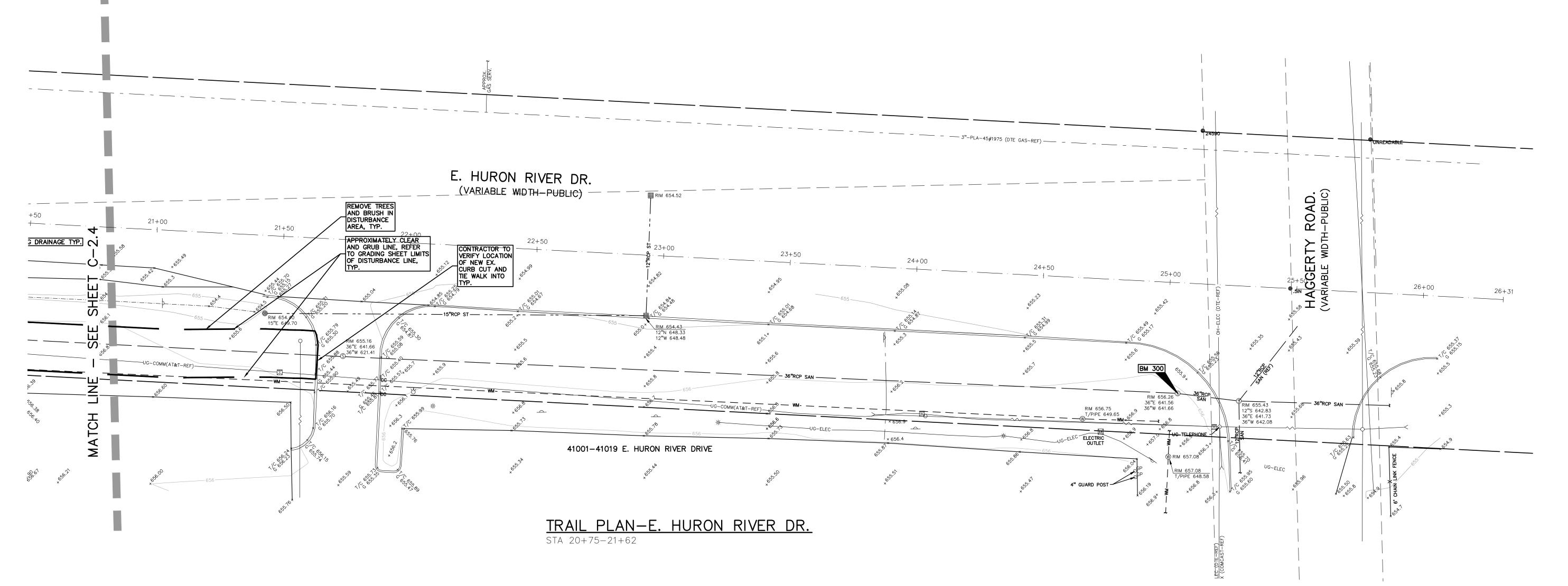
ELECTRIC DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020 COMCAST MAP, EMAIL DATED 03/19/2020 DTE GAS COMPANY MAP DATED 03/23/2020



t: 844.813.2949

www.peagroup.com

CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP



REVISIONS

ORIGINAL ISSUE 12/2/20 **REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21**

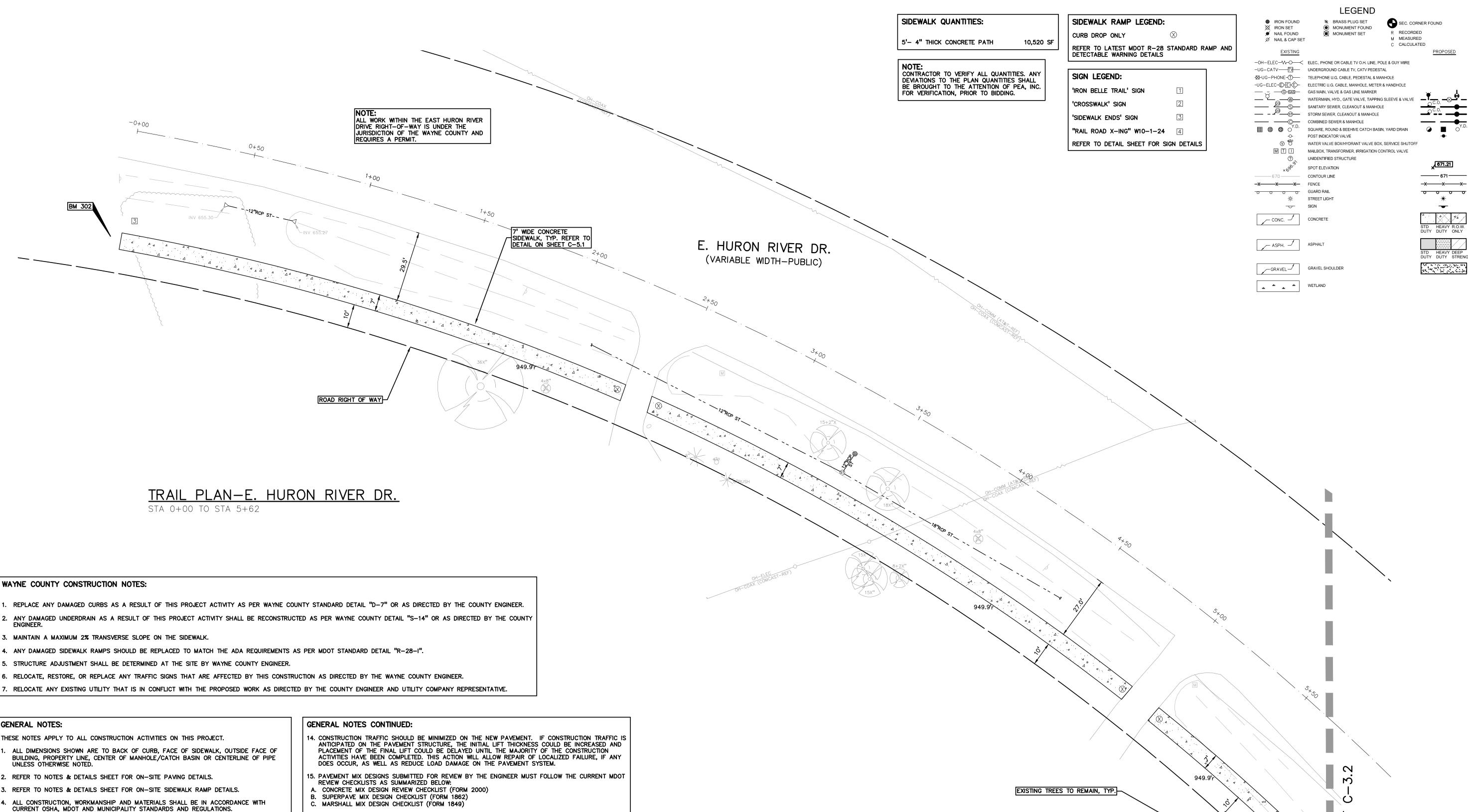
REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

DRAWING TITLE **TOPOGRAPHICAL SURVEY & DEMOLITION** SHEET

PEA JOB NO. 2020-0095 DRAWING NUMBER:

NOT FOR CONSTRUCTION



GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- . THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL TWP INSPECTION FEES.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL
- NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE,
- DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, TOWNSHIP AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR
- 12. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- 13. PROVIDE EXPANSION JOINTS AND JOINT SEALANT AT TWO "END-OF-RADIUS" LOCATIONS (OPPOSITE SIDES AT EACH LONG END) OF CONCRETE CURB ISLANDS.

- 16. CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE A. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH
- SEALANT, THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 12 INCH TO ALLOW FOR SEALING WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED
- CONCRETE (CONSTRUCTION JOINT) PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2"
- EXPANSION JOINT WITH SEALANT WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
- . CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS:
- E.A. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' E.B. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
- IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- . IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- AUTHORITY HAVING JURISDICTION; A. M WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM $^{\prime\prime}$
- EXPANSION JOINT WITH SEALANT B. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2"
- EXPANSION JOINT WITH SEALANT C. WHERE PROPOSED CONCRETE ABUTS EXISTING CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT
- WITH SEALANT D. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT)
- D.A. CARRY THE REBAR CONTINUOUSLY BETWEEN POUTS D.B. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY THEN TIE TOW PEICES TO REBAR
- PER THE LATEST MDOT SPECIFICATIONS E. CONTROL JOINTS SHALL BE PLACED A MAXIMUM 10' CENTER TO CENTER AND AT ALL RADIUS
- RETURNS.

CLIENT

CAUTION!!

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN

PΞΛ

GROUP

t: 844.813.2949

www.peagroup.com

SCALE: 1" = 20'

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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIP



REVISIONS ORIGINAL ISSUE 12/2/20

REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP 1/24/24

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

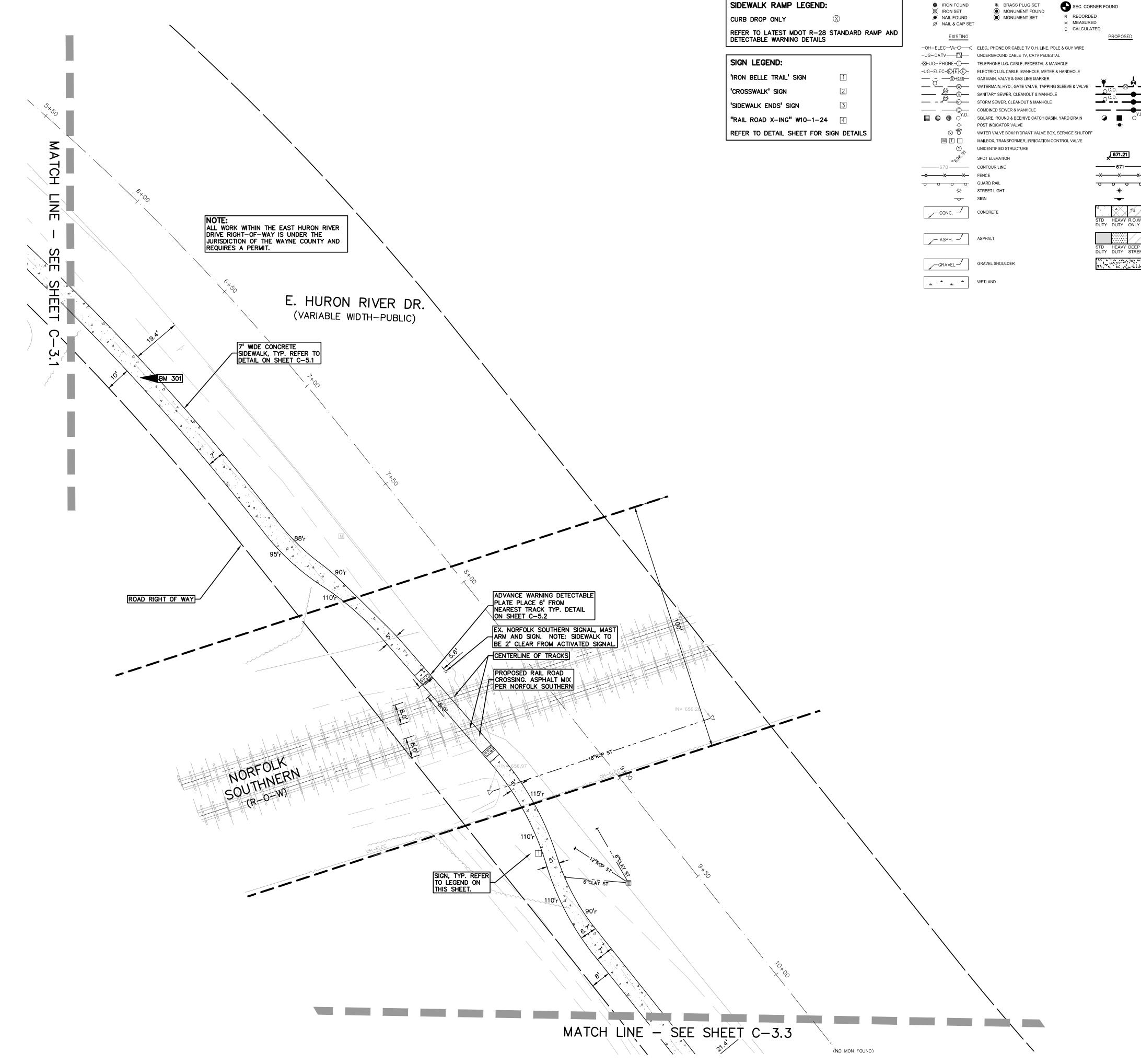
DRAWING TITLE

DIMEMSION AND PAVING SHEET

2020-0095 PEA JOB NO. JTS JMR DES. JMR

NOT FOR CONSTRUCTION

DRAWING NUMBER:



TRAIL PLAN-E. HURON RIVER DR.

STA 5+62 TO STA 10+00

ΡΞΛ SEC. CORNER FOUND R RECORDED M MEASURED GROUP C CALCULATED

x 671.21

671

-x----x---x-

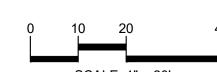
0 0 0 0

_

LEGEND

t: 844.813.2949

www.peagroup.com





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



REVISIONS

ORIGINAL ISSUE 12/2/20 **REVISION 1/27/21** REVISION NORFOLK SOUTHERN 11/10/21

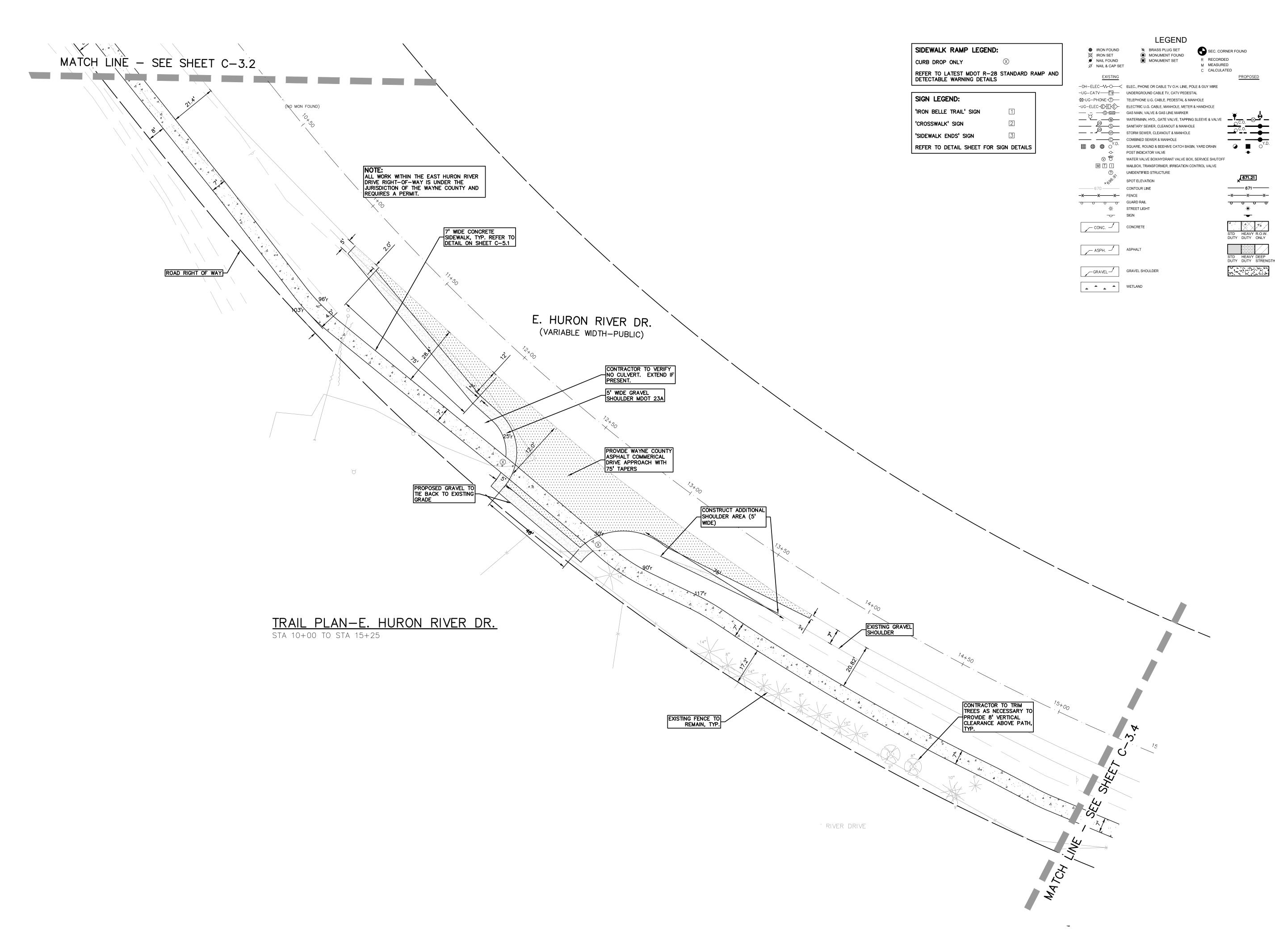
REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE:

DECEMBER 3, 2020 DRAWING TITLE

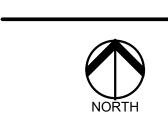
DIMENSION AND PAVING SHEET

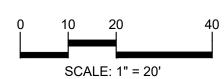
PEA JOB NO. 2020-0095 JMR JMR DES. DRAWING NUMBER:





www.peagroup.com







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



REVISIONS

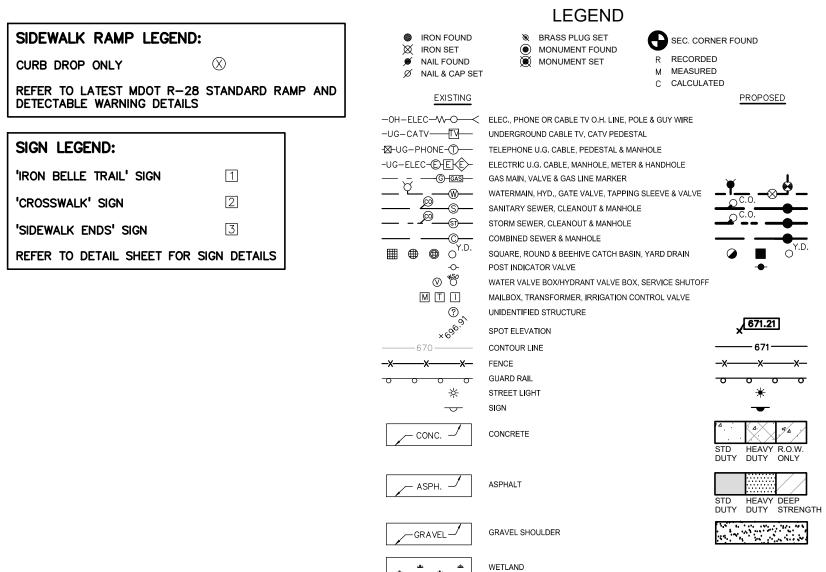
ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222

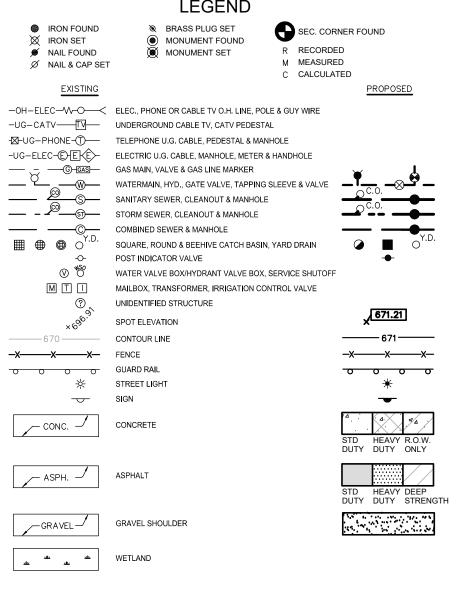
ORIGINAL ISSUE DATE: DECEMBER 3, 2020

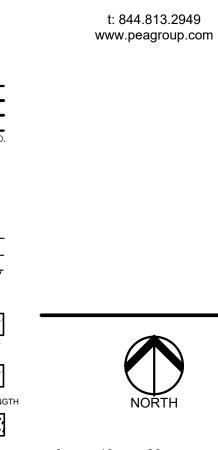
REVISION PER TWP

DIMENSION AND PAVING SHEET

2020-0095 PEA JOB NO. DRAWING NUMBER:





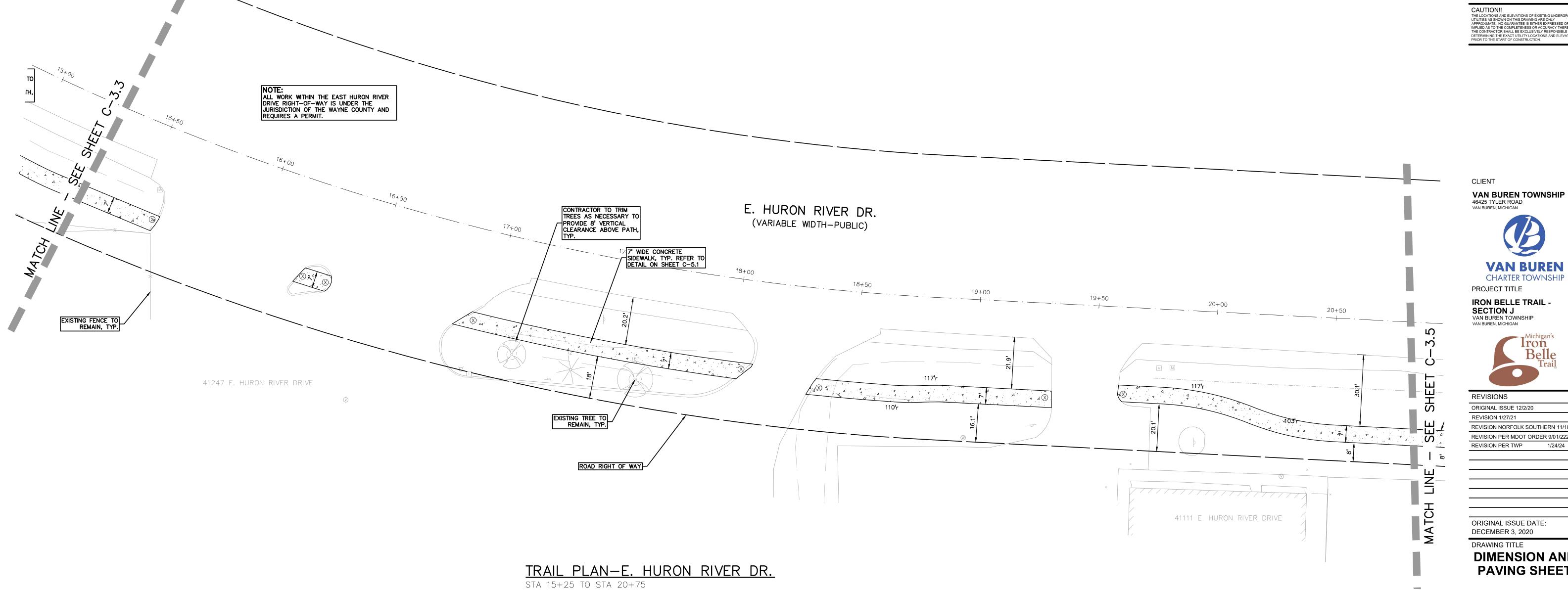


ΡΞΛ

GROUP



CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

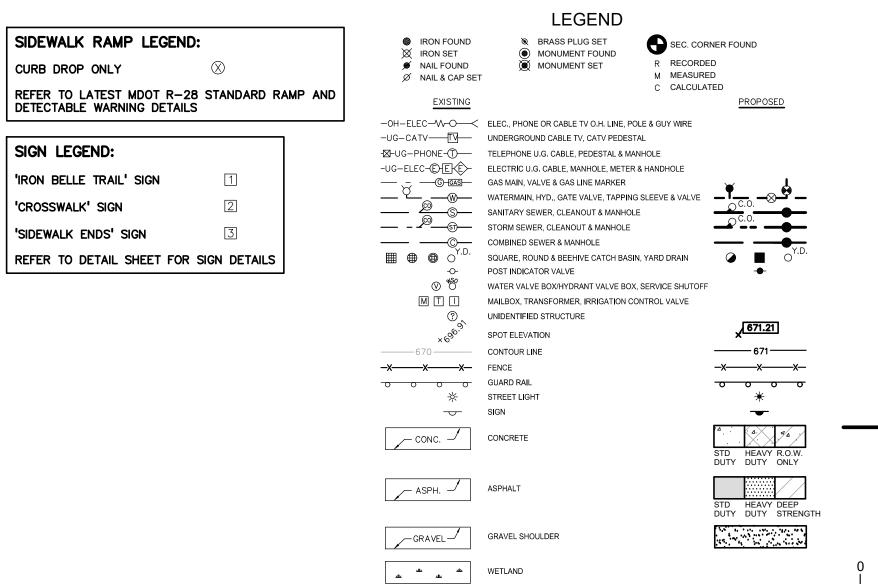


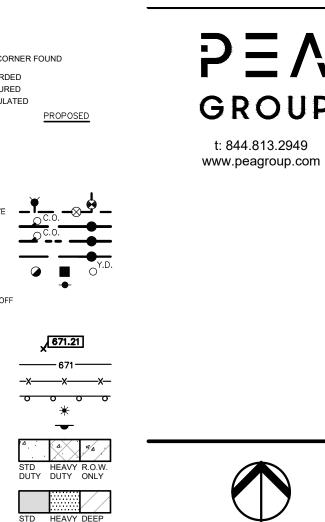
VAN BUREN
CHARTER TOWNSHIP

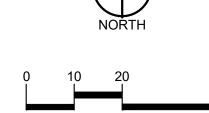
ORIGINAL ISSUE 12/2/20)
REVISION 1/27/21	
REVISION NORFOLK SO	UTHERN 11/10/21
REVISION PER MDOT OF	RDER 9/01/222
REVISION PER TWP	1/24/24

DIMENSION AND PAVING SHEET

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	i

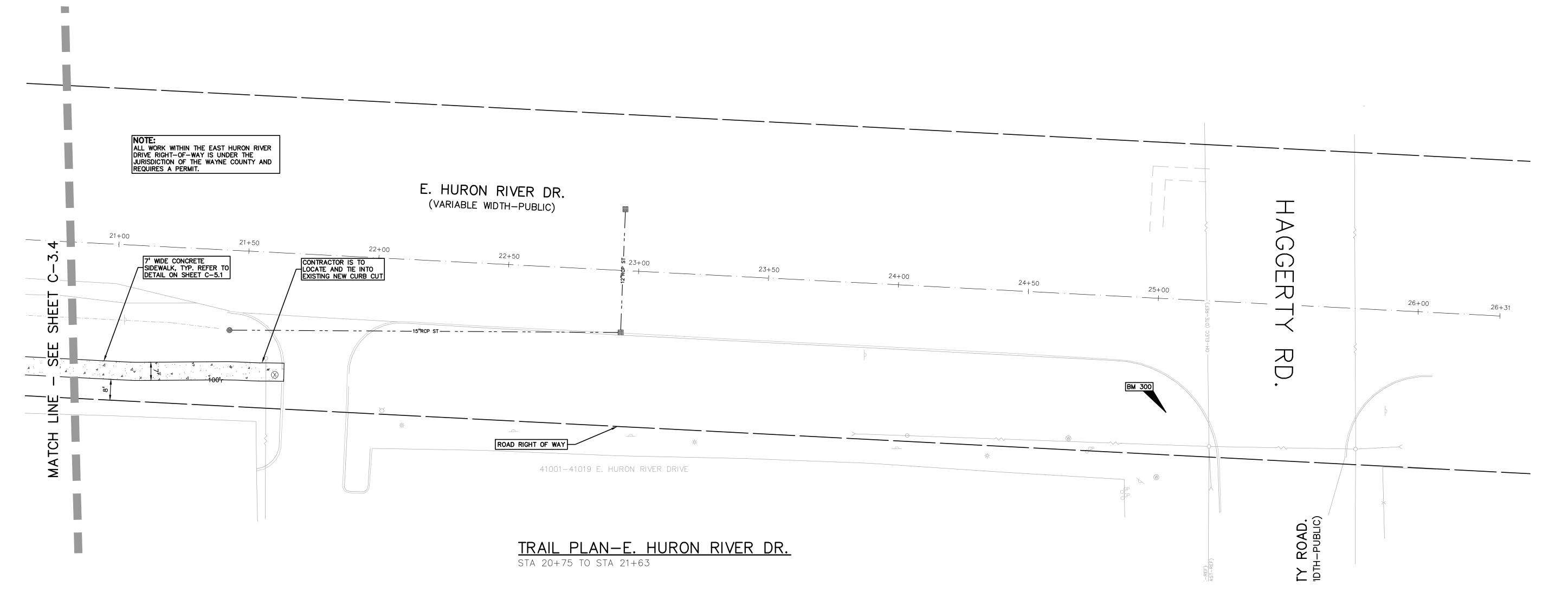








CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT **VAN BUREN TOWNSHIP** 46425 TYLER ROAD VAN BUREN, MICHIGAN

VAN BUREN CHARTER TOWNSHIP PROJECT TITLE

IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



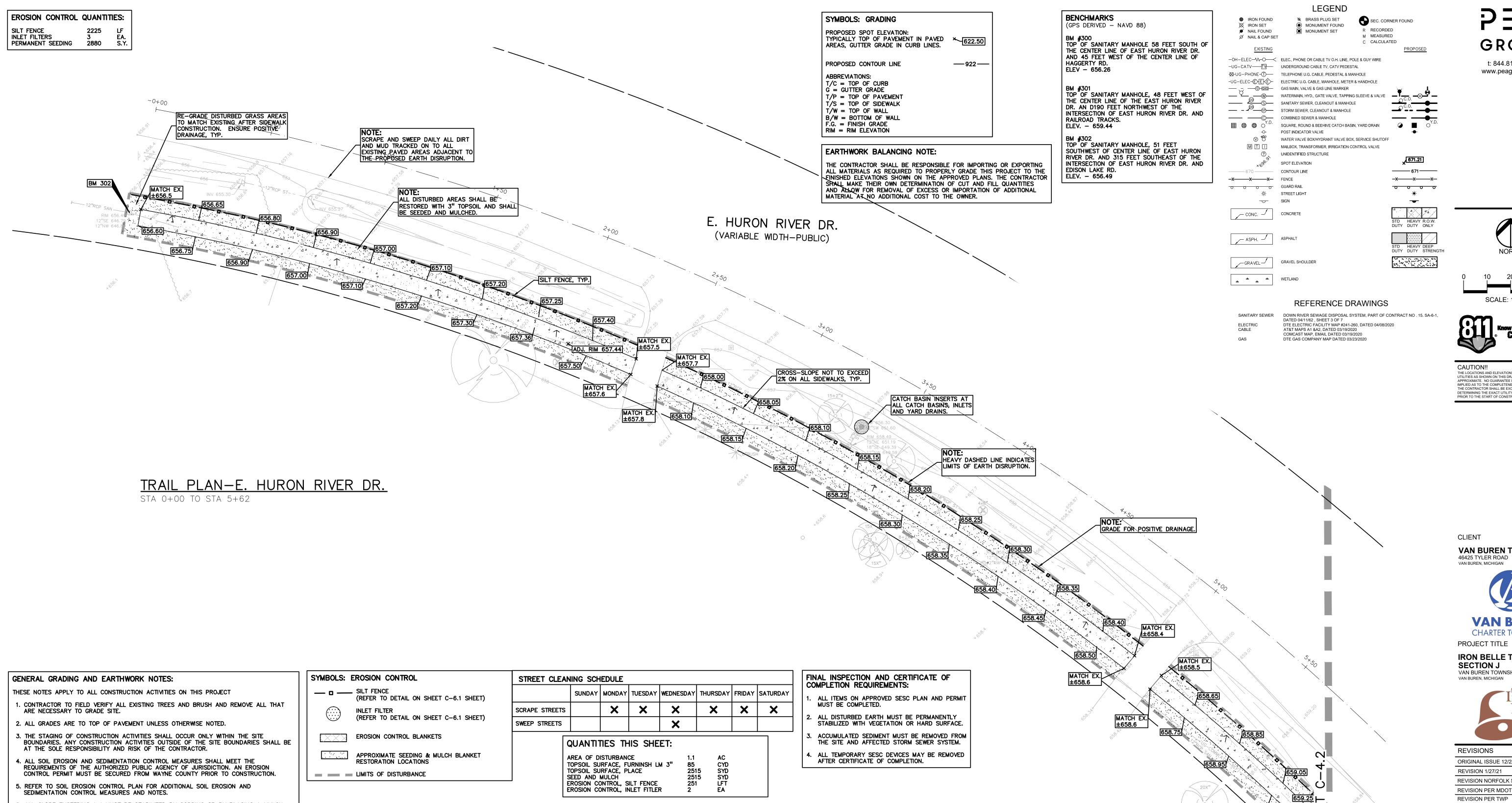
REVISIONS ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 **REVISION NORFOLK SOUTHERN 11/10/21** REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE:

DECEMBER 3, 2020 DRAWING TITLE

DIMENSION AND PAVING SHEET

PEA JOB NO. 2020-0095 DRAWING NUMBER:



- 6. ALL SLOPE EXCEEDING 1:4 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.
- '. ALL DISTURBED AREAS OUTSIDE OF THE RIGHT-OF-WAY SHALL BE SEEDED AND MULCHED OR SODDED. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE
- 8. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
- 9. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- O. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOF ROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
- . SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- 2. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
- 13. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
- 4. MINOR ADJUSTMENTS TO STRUCTURE COVERS (<6") IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

REQUIRED WEEKLY.

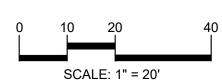
THE CONTRACTOR SHALL CONTACT WAYNE COUNTY SOIL EROSION OFFICE 48 HOURS BEFORE WORK IS TO BEGIN (734-326-3936).

THE CONTRACTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES ONCE EACH WEEK AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. THE FOLLOWING STEPS SHALL BE IMPLEMENTED IF ANY DAMAGE HAS OCCURRED.

- ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH
- ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED DAILY BY SCRAPING. STREET SWEEPING IS
- SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING
- INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
- 5. A WATER TRUCK SHALL BE AVAILABLE TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.

GROUP t: 844.813.2949 www.peagroup.com







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT **VAN BUREN TOWNSHIP** 46425 TYLER ROAD



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIF



REVISIONS ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222

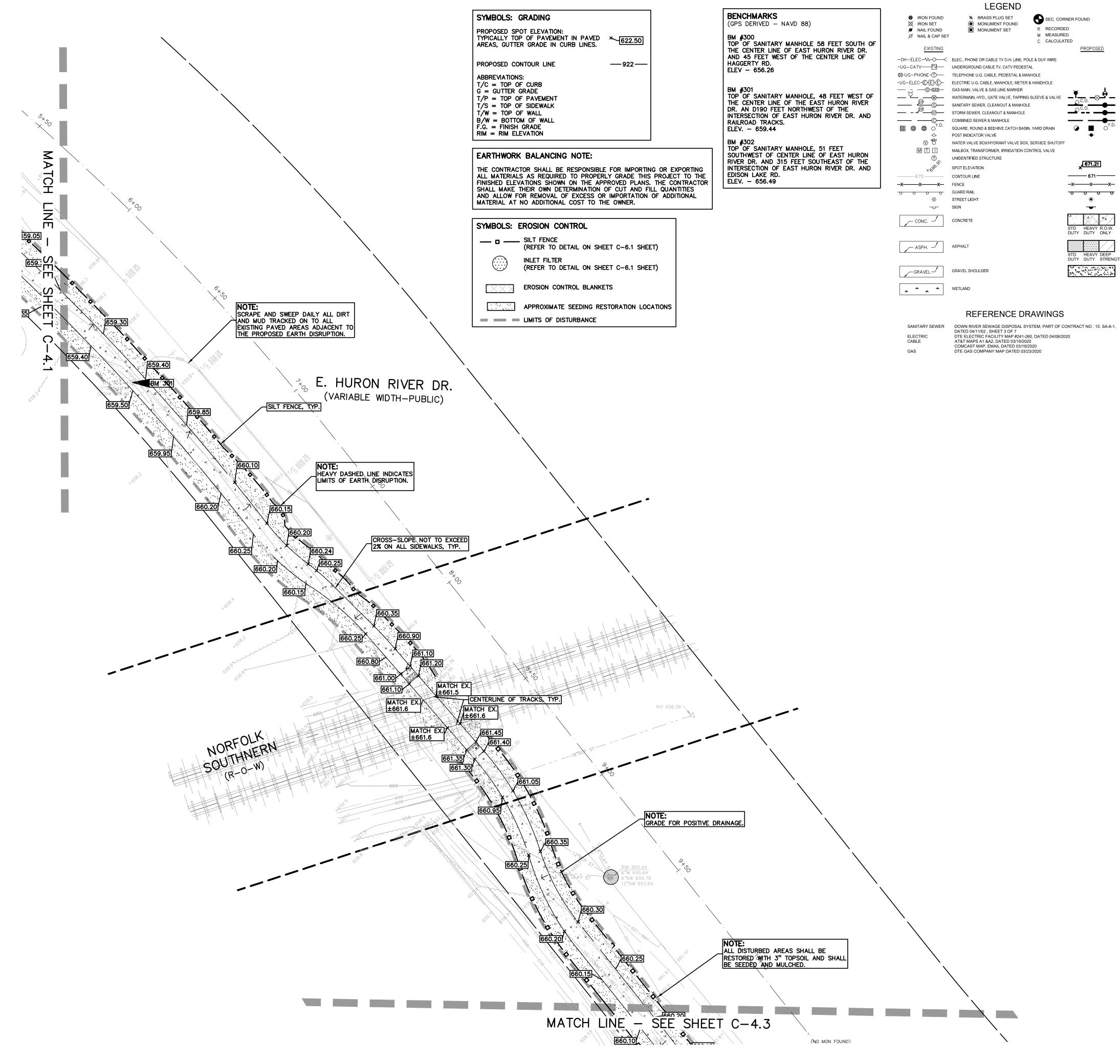
1/24/24

ORIGINAL ISSUE DATE: DECEMBER 3, 2020 DRAWING TITLE

GRADING SHEET

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR

DRAWING NUMBER:



671.21

671

-x----x---x-

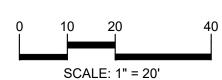
0 0 0 0

_

t: 844.813.2949

www.peagroup.com







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP

VAN BUREN, MICHIGAN



REVISIONS

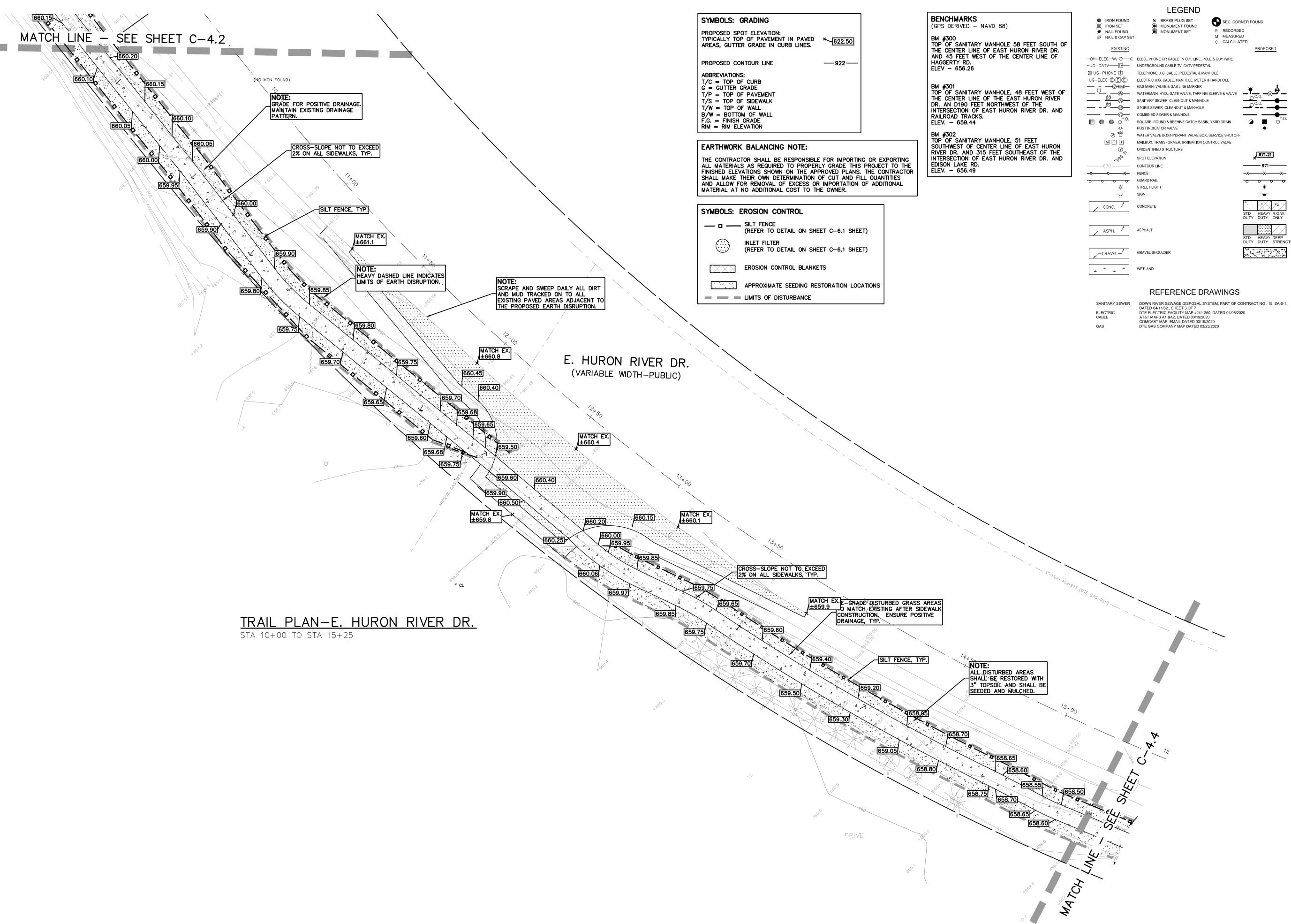
ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222

REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

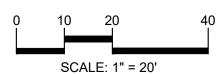
DRAWING TITLE **GRADING SHEET**

PEA JOB NO.	2020-00
P.M.	
DN.	J
DES.	J
DRAWING NUMBER:	



GROUP t: 844.813.2949 www.peagroup.com 671 -x----x---x-0 0 0 0







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD



PROJECT TITLE **IRON BELLE TRAIL -SECTION J** VAN BUREN TOWNSHIP



REVISIONS

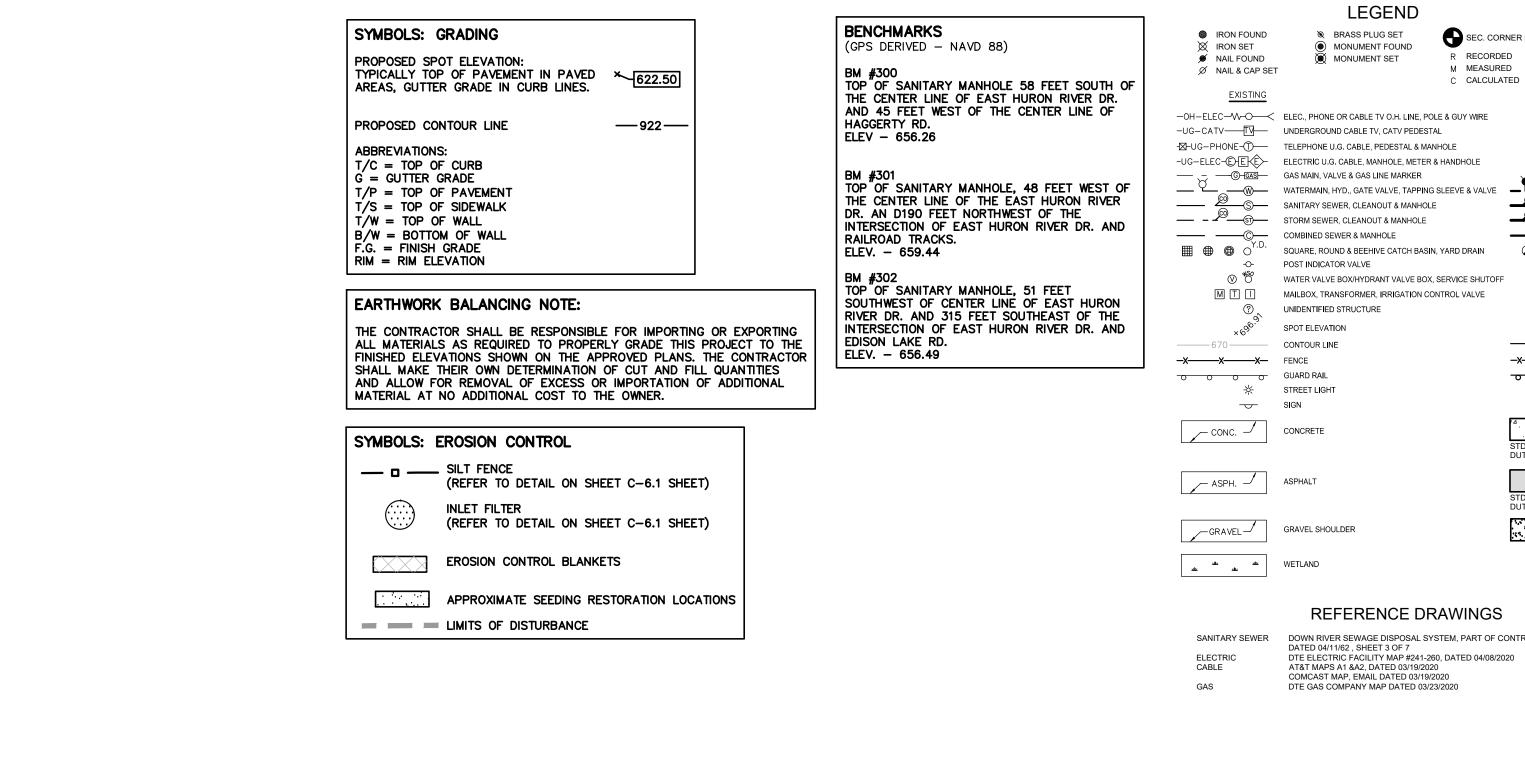
ORIGINAL ISSUE 12/2/20 **REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21** REVISION PER MDOT ORDER 9/01/222

REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020 DRAWING TITLE

GRADING SHEET

PEA JOB NO.	2020-0095
P.M.	JT
DN.	JMF
DES.	JMF
DRAWING NUMBER:	



MATCH EX. ±656.6

ALL DISTURBED AREAS SHALL BE RESTORED WITH 3" TOPSOIL AND SHALL BE SEEDED AND MULCHED.

RE-GRADE DISTURBED GRASS AREAS TO MATCH EXISTING AFTER SIDEWALK CONSTRUCTION. ENSURE POSITIVE

41247 E. HURON RIVER DRIVE

MA TCH

MATCH EX. ±658.5

W RIM 658.29

NOTE:
GRADE FOR POSITIVE DRAINAGE.

NOTE:

HEAVY DASHED LINE INDICATES
LIMITS OF EARTH DISRUPTION.

658.00 657.85

TRAIL PLAN-E. HURON RIVER DR.

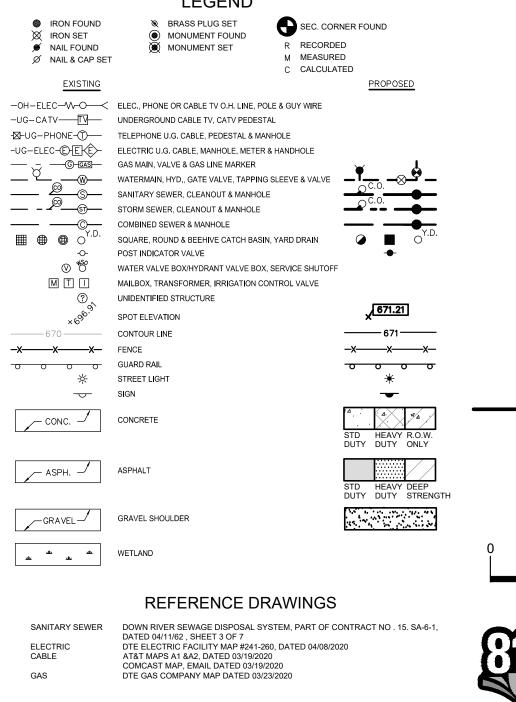
STA 15+25 TO STA 20+75

SILT FENCE, TYP.

MATCH EX. ±657.7

MATCH EX. ±657.6

CROSS-SLOPE NOT TO EXCEED 2% ON ALL SIDEWALKS, TYP.



NOTE: 00
SCRAPE AND SWEEP DAILY ALL DIRT
AND MUD TRACKED ON TO ALL
EXISTING PAVED AREAS ADJACENT TO
THE PROPOSED EARTH DISRUPTION.

41111 E. HURON RIVER DRIVE



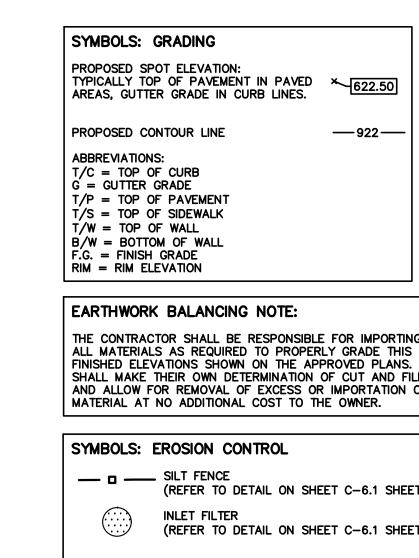
t: 844.813.2949

www.peagroup.com

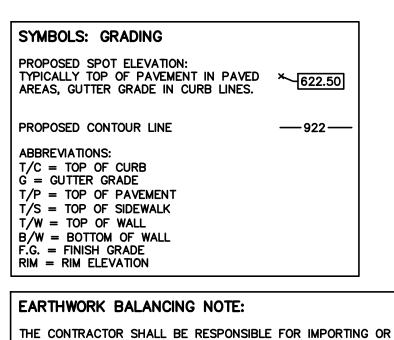
SCALE: 1" = 20'

CAUTION!!

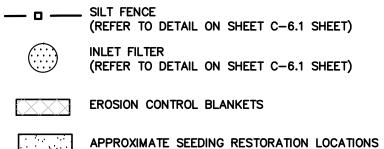
PEA JOB NO. 2020-0095 DRAWING NUMBER:

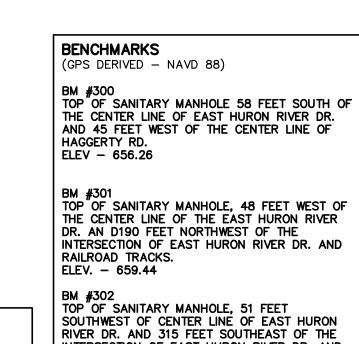


LIMITS OF DISTURBANCE



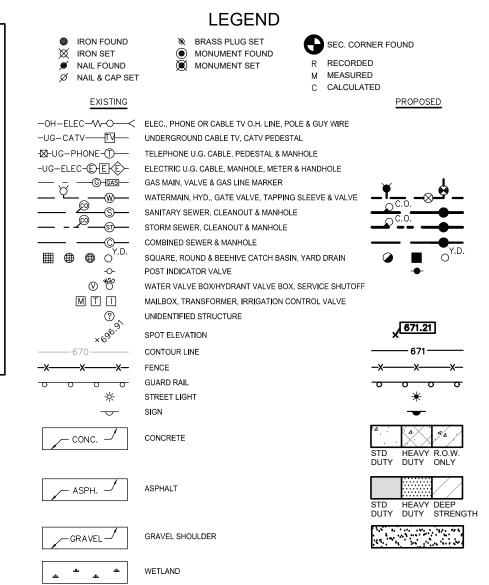
THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL





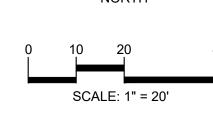
INTERSECTION OF EAST HURON RIVER DR. AND

EDISON LAKE RD. ELEV. - 656.49



REFERENCE DRAWINGS

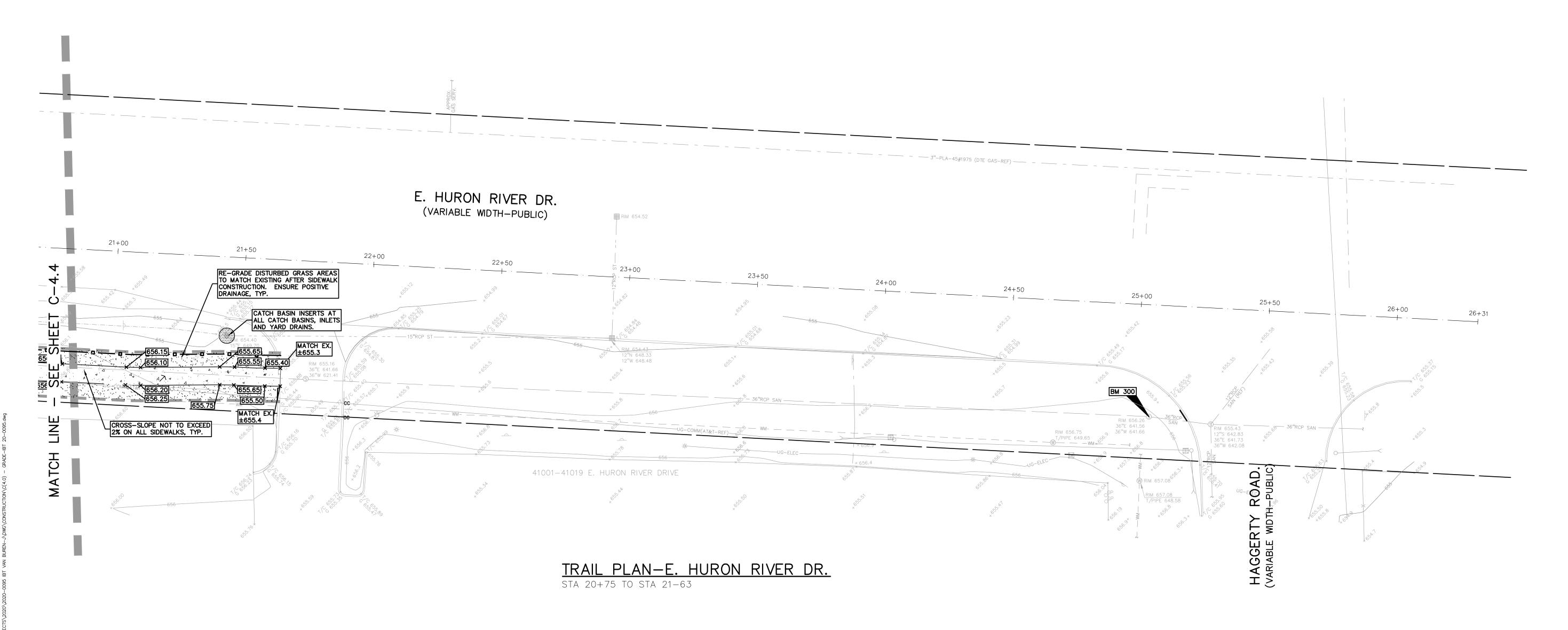
SANITARY SEWER DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO . 15. SA-6-1, DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020 COMCAST MAP, EMAIL DATED 03/19/2020 DTE GAS COMPANY MAP DATED 03/23/2020



t: 844.813.2949

www.peagroup.com

CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT **VAN BUREN TOWNSHIP** 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL -SECTION J VAN BUREN TOWNSHIP

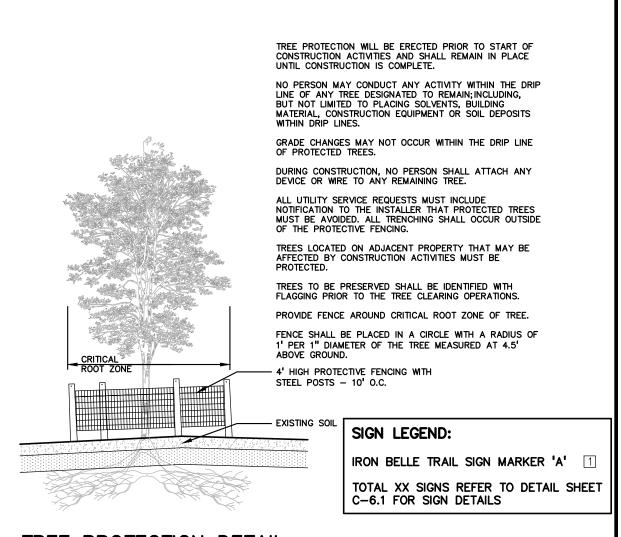


REVISIONS ORIGINAL ISSUE 12/2/20 REVISION 1/27/21 REVISION NORFOLK SOUTHERN 11/10/21 REVISION PER MDOT ORDER 9/01/222 REVISION PER TWP

ORIGINAL ISSUE DATE: DECEMBER 3, 2020

DRAWING TITLE **GRADING SHEET**

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER:	





30" FROM FACE PAVEMENT, TYP.

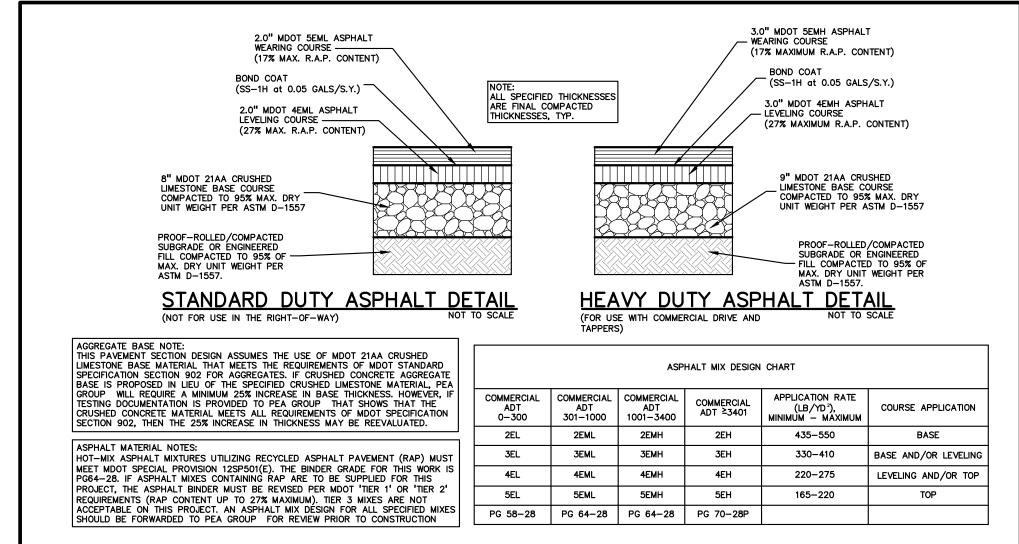
SIGN AND POST INSTALLATION IN LANDSCAPED AREAS

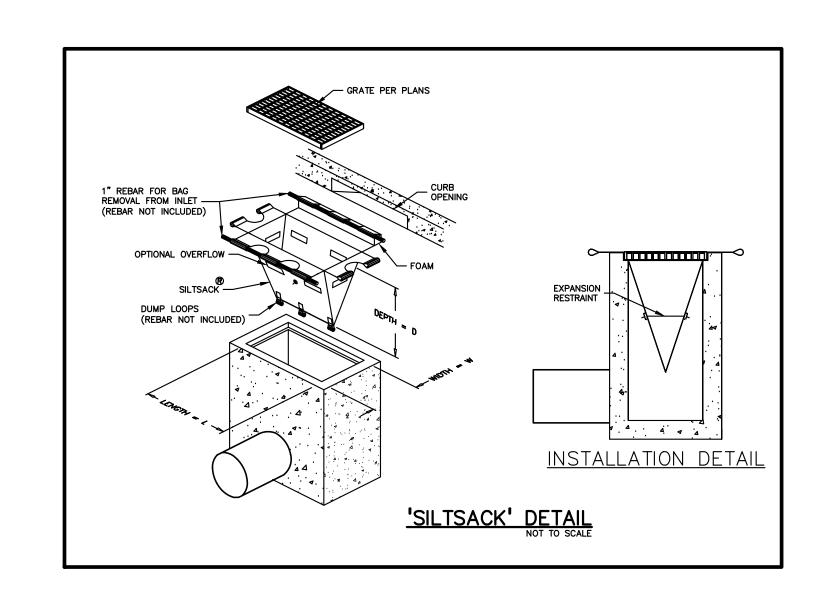
ALUMINUM .08" THICK MIN. SHAPE AND SIZE VARIES

5/16" BOLTS IN 3/8" DRILLED HOLES

SIGN POST GALVANIZED STEEL CHANNEL POST

PROVIDE 2"x2"x.188 STEEL TUBE IF MOUNTING MORE — THAN ONE SIGN PER POST

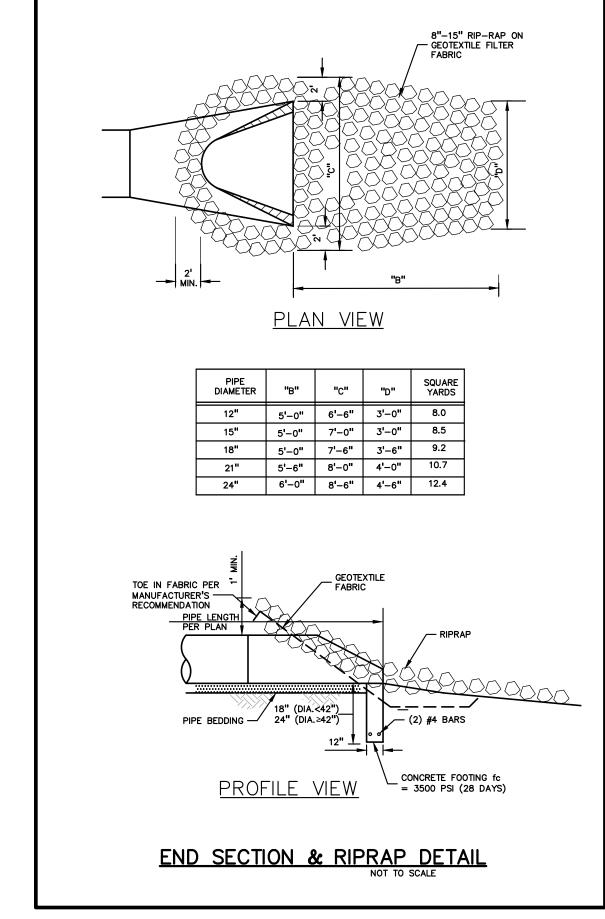


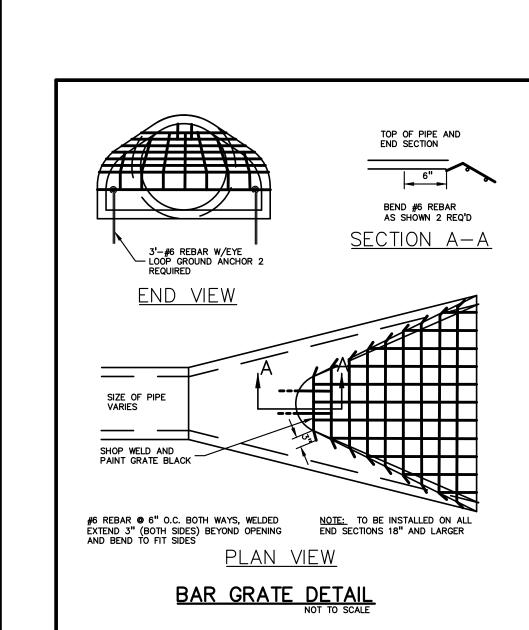


LATERAL CLEARANCE:

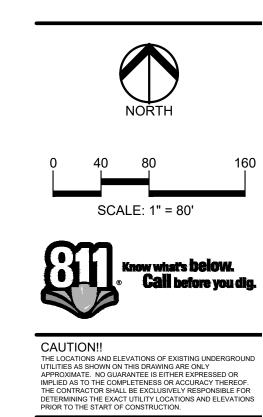
IN URBAN AREAS, A MINIMUM CLEARANCE OF TWO FEET

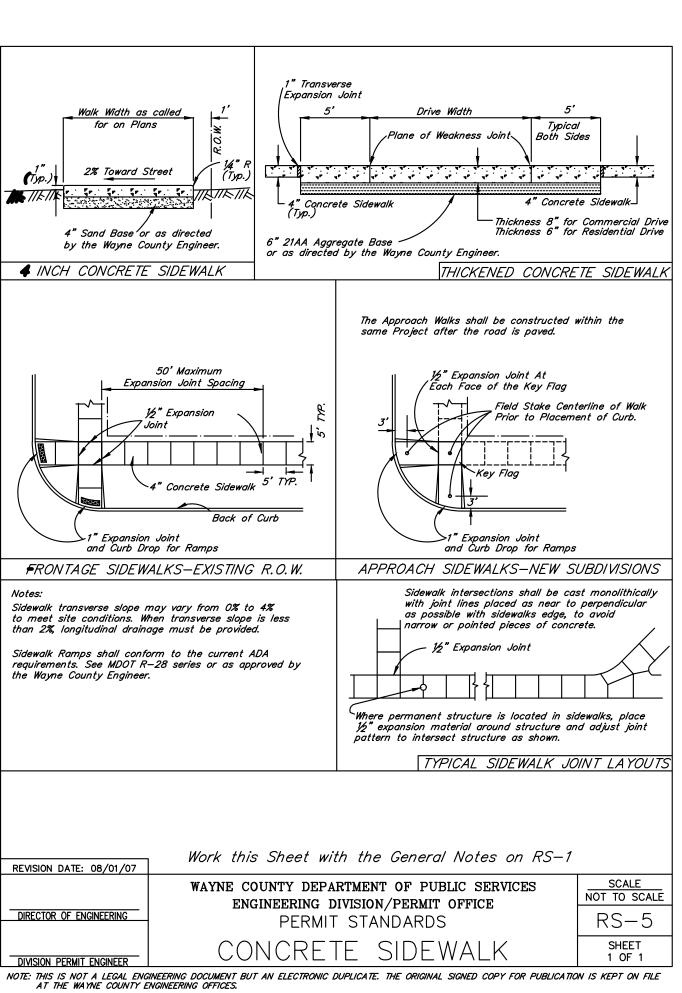
BETWEEN CURB FACE AND SIGN INSTALLATION SHOULD BE MAINTAINED, BUT A CLEARANCE OF ONE FOOT FROM CURB

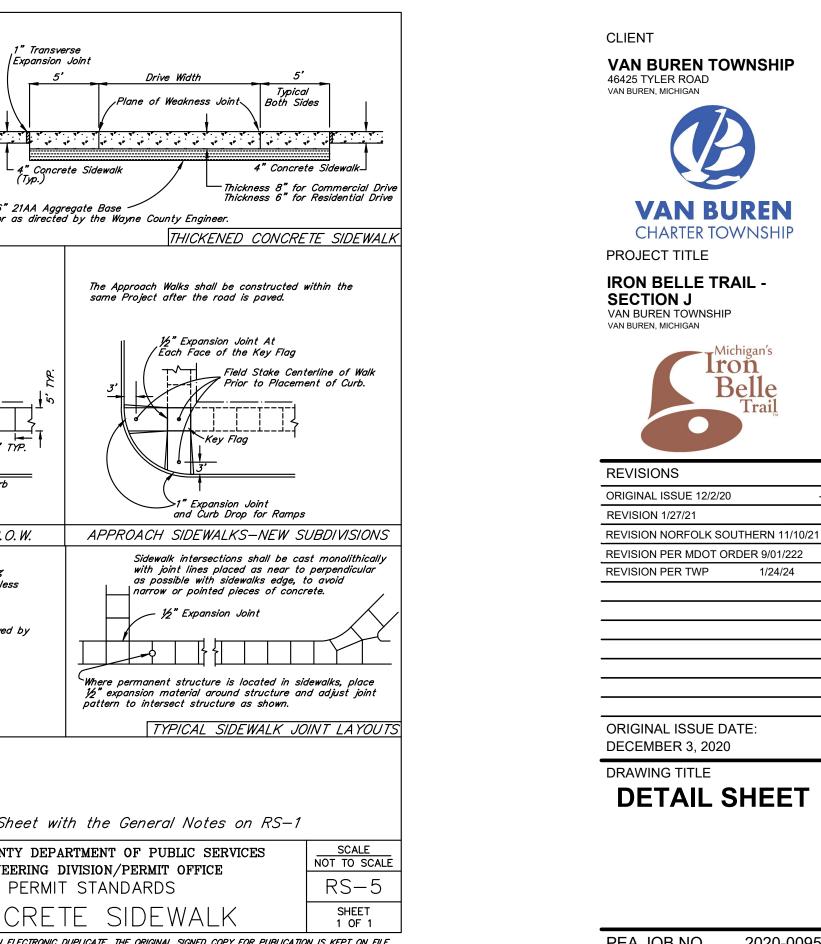


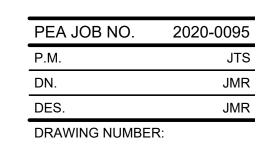




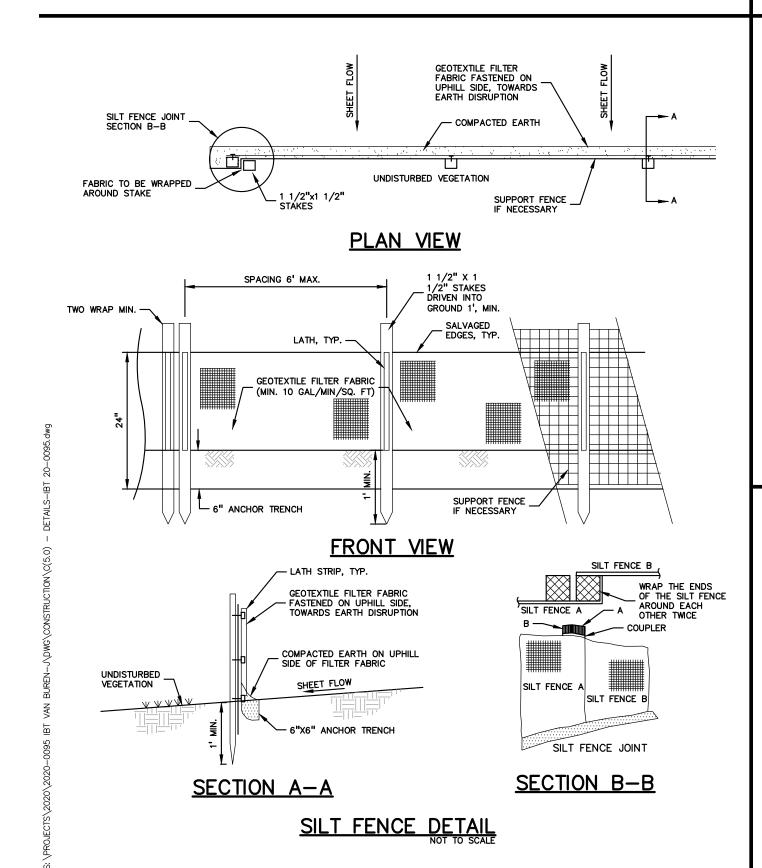


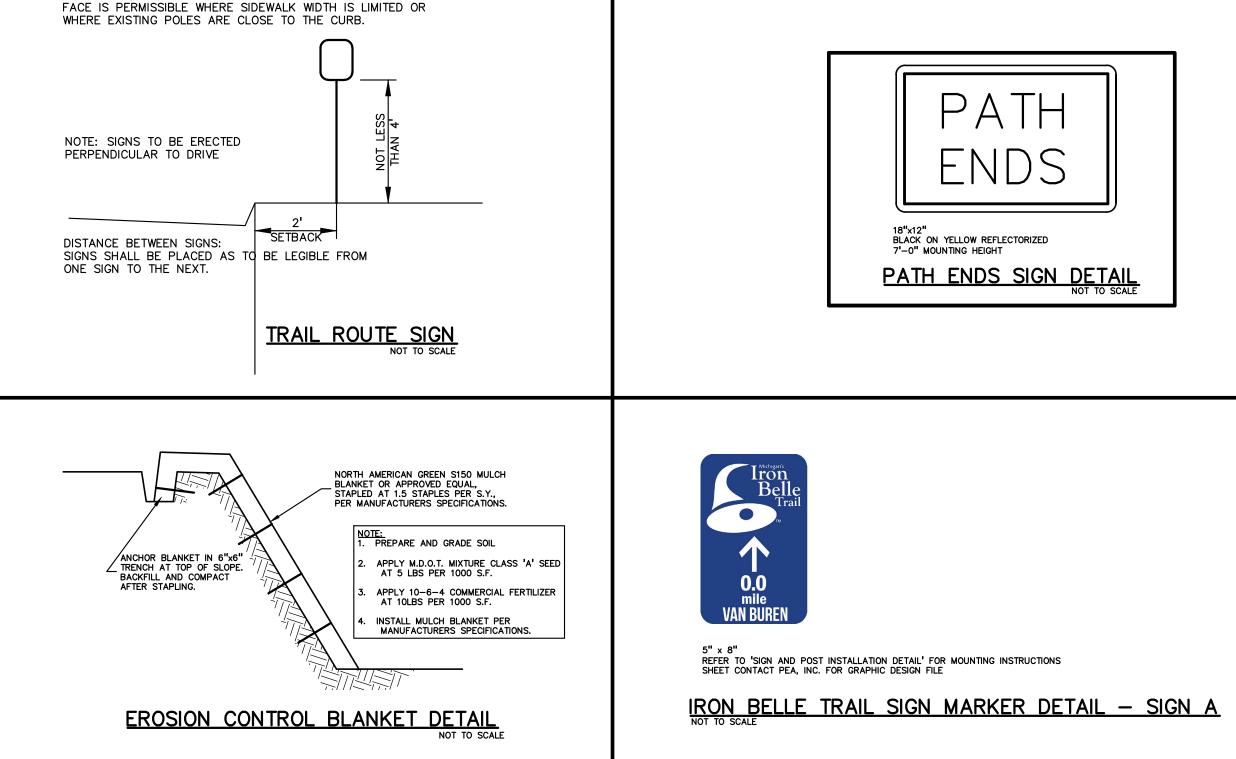


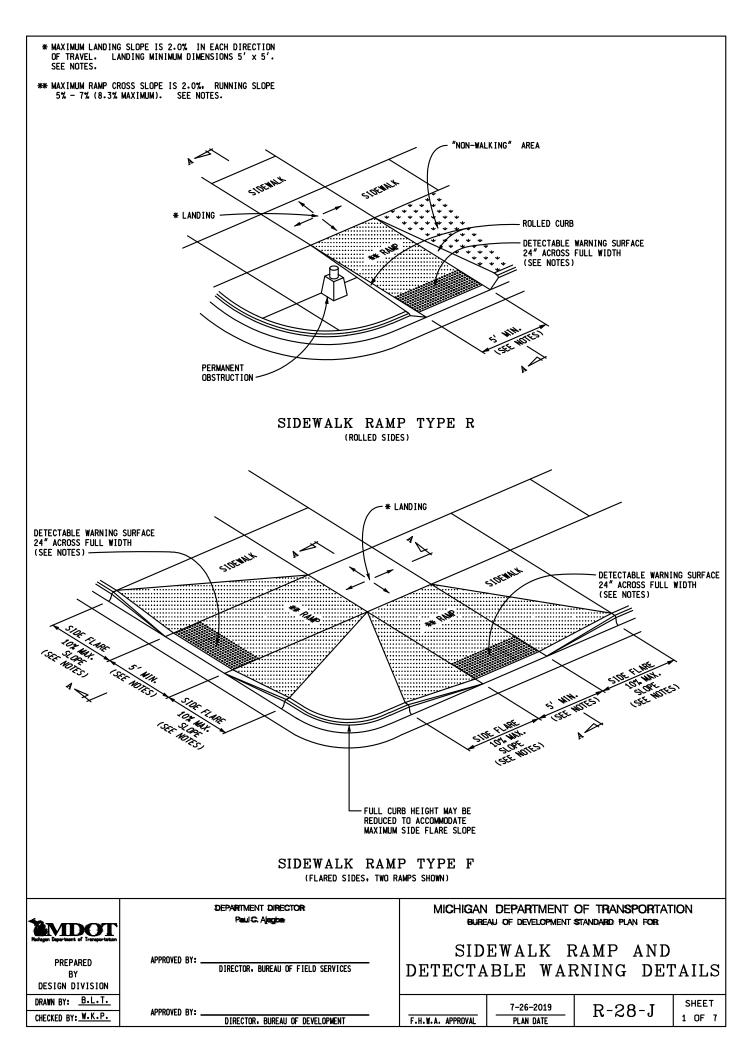


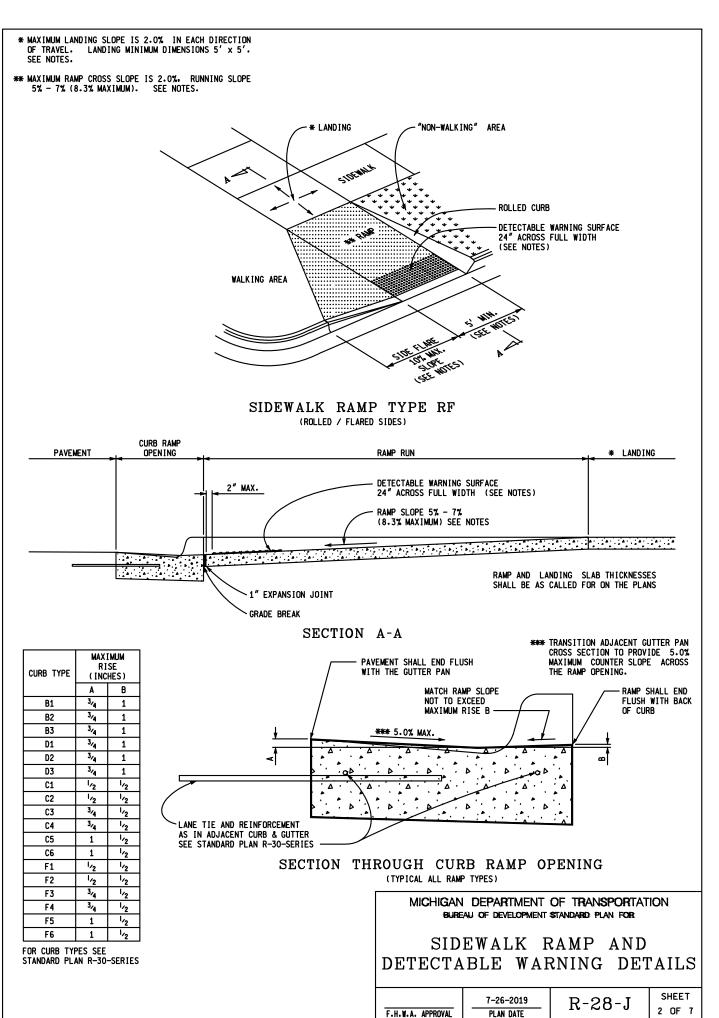


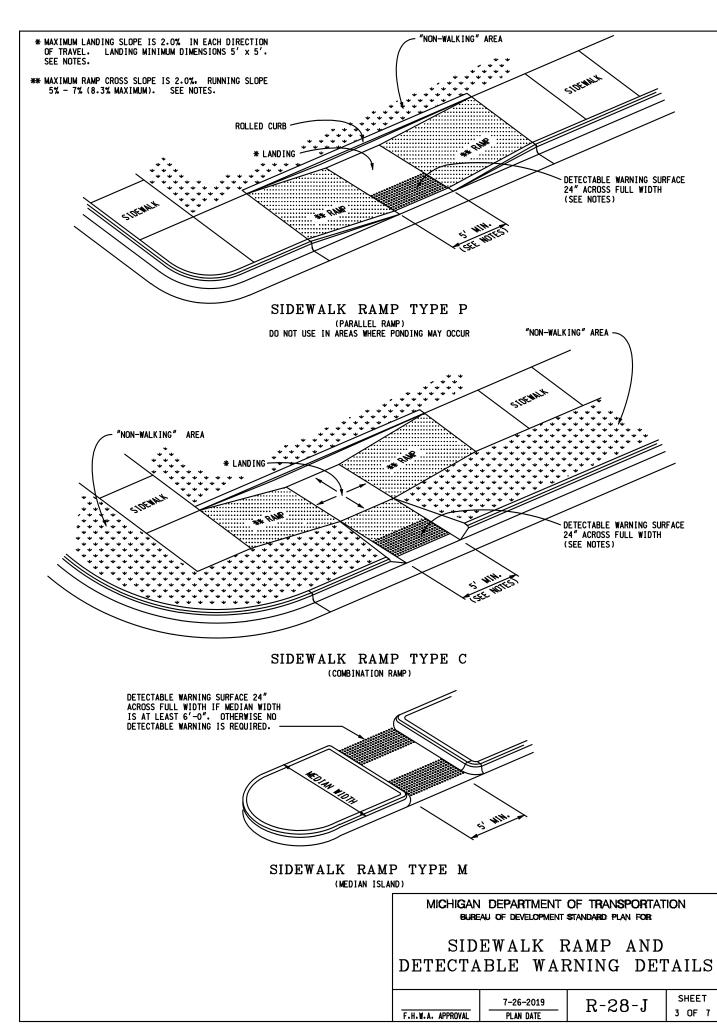
1/24/24

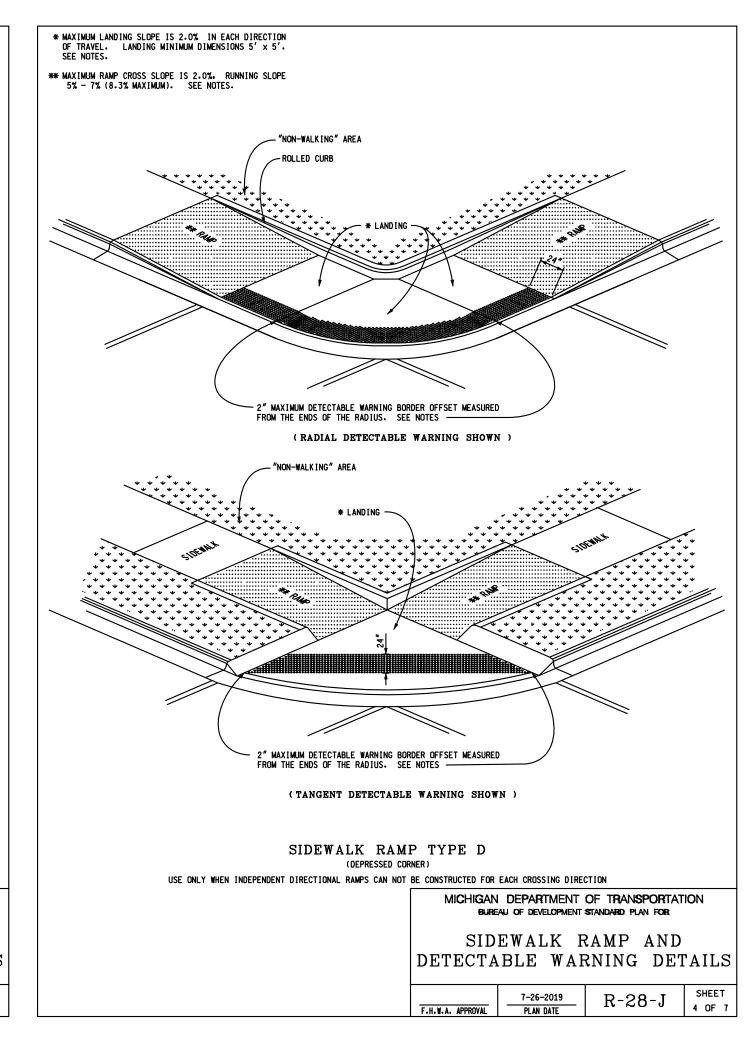




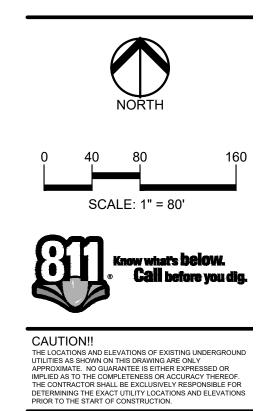


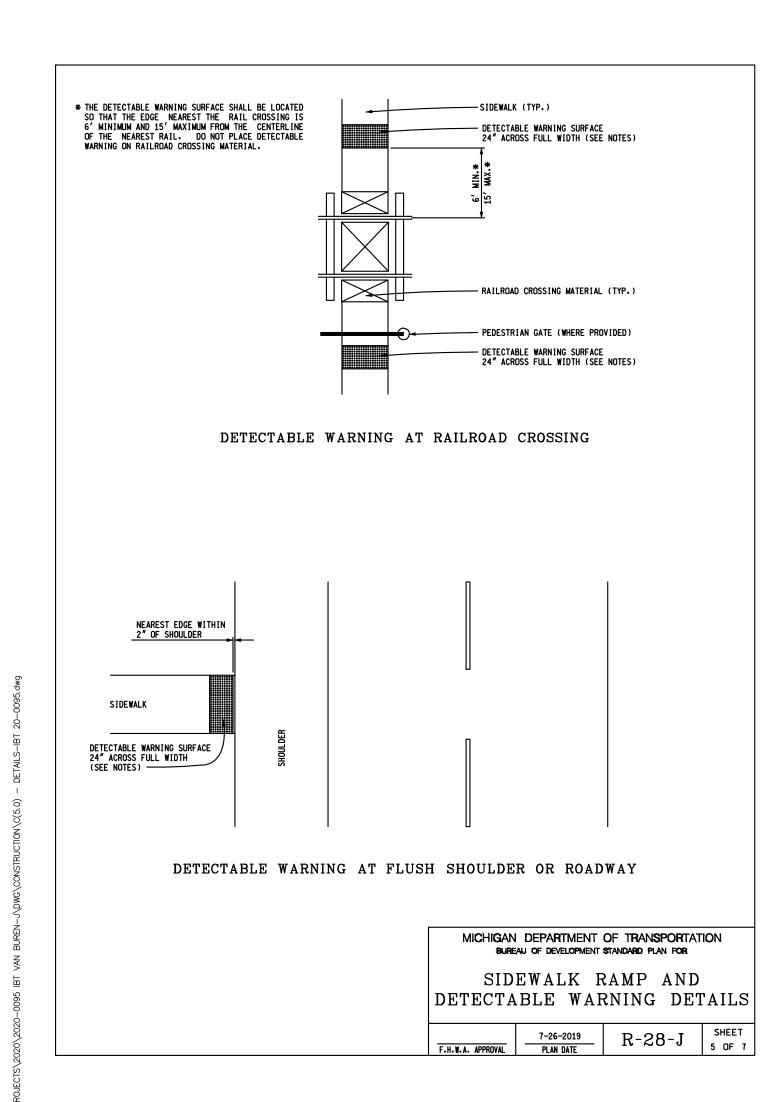


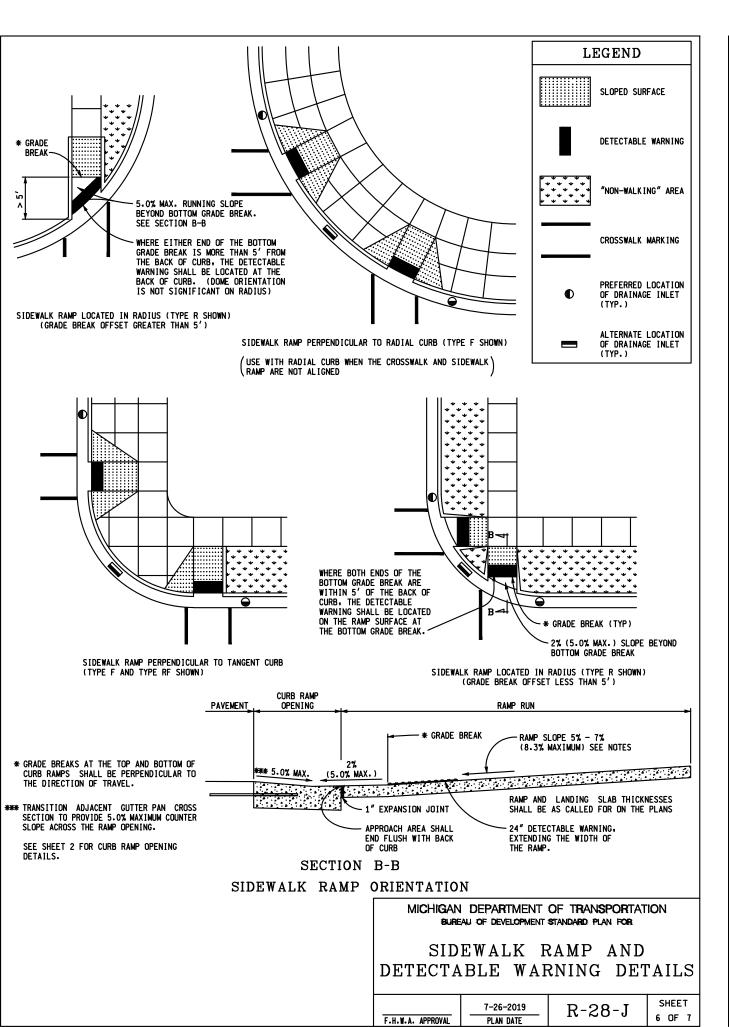


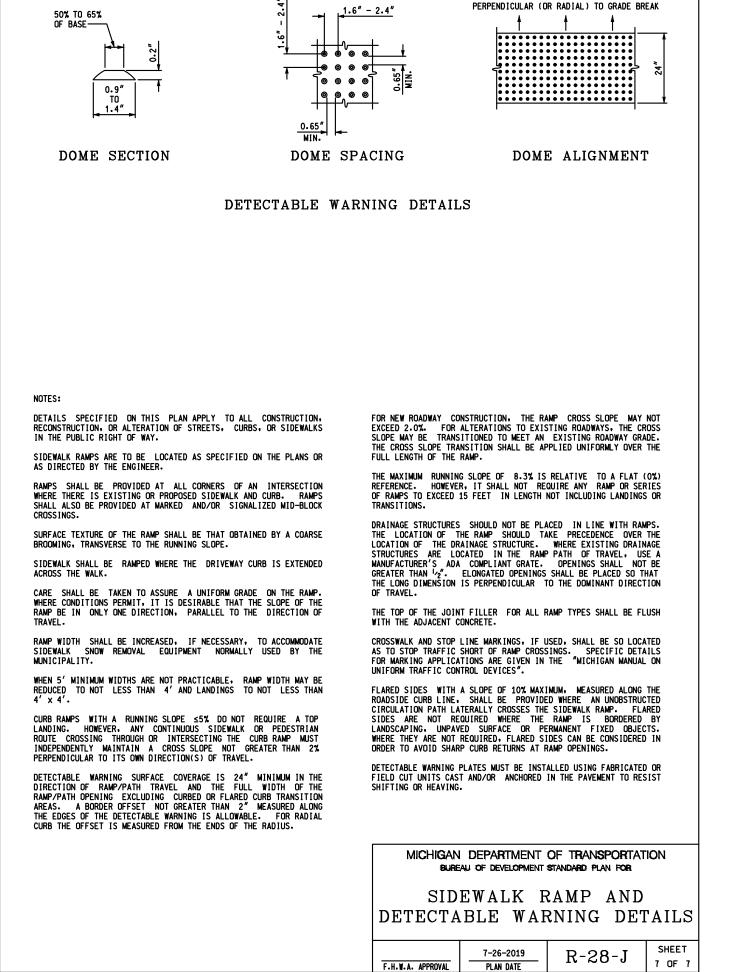




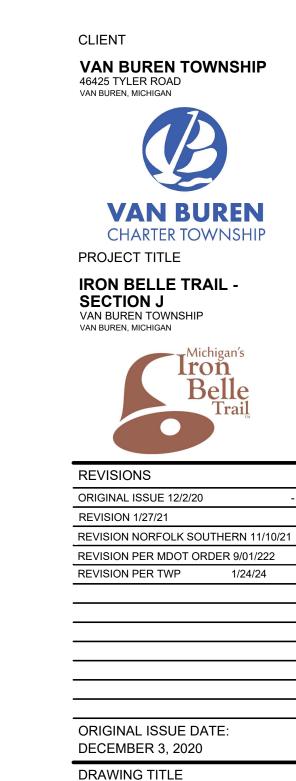








ALIGNED IN DIRECTION OF TRAVEL AND



	PEA JOB NO.	2020-0095
	P.M.	JTS
	DN.	JMR
	DES.	JMR
,	DRAWING NUMBER:	

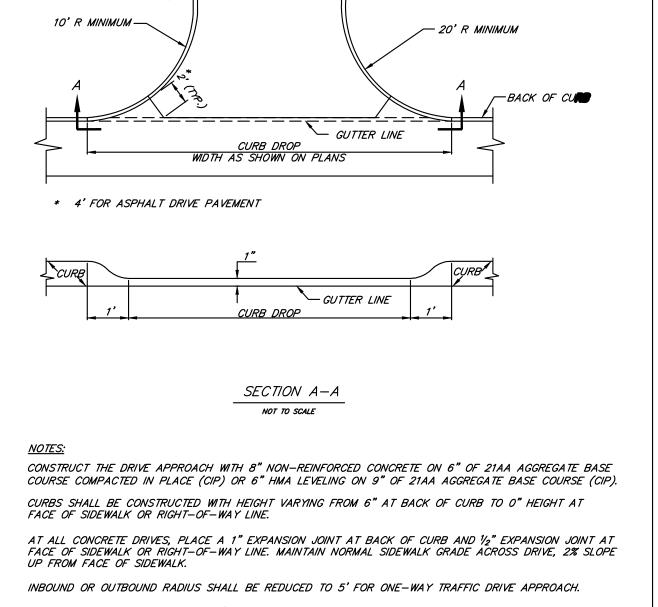
DETAIL SHEET

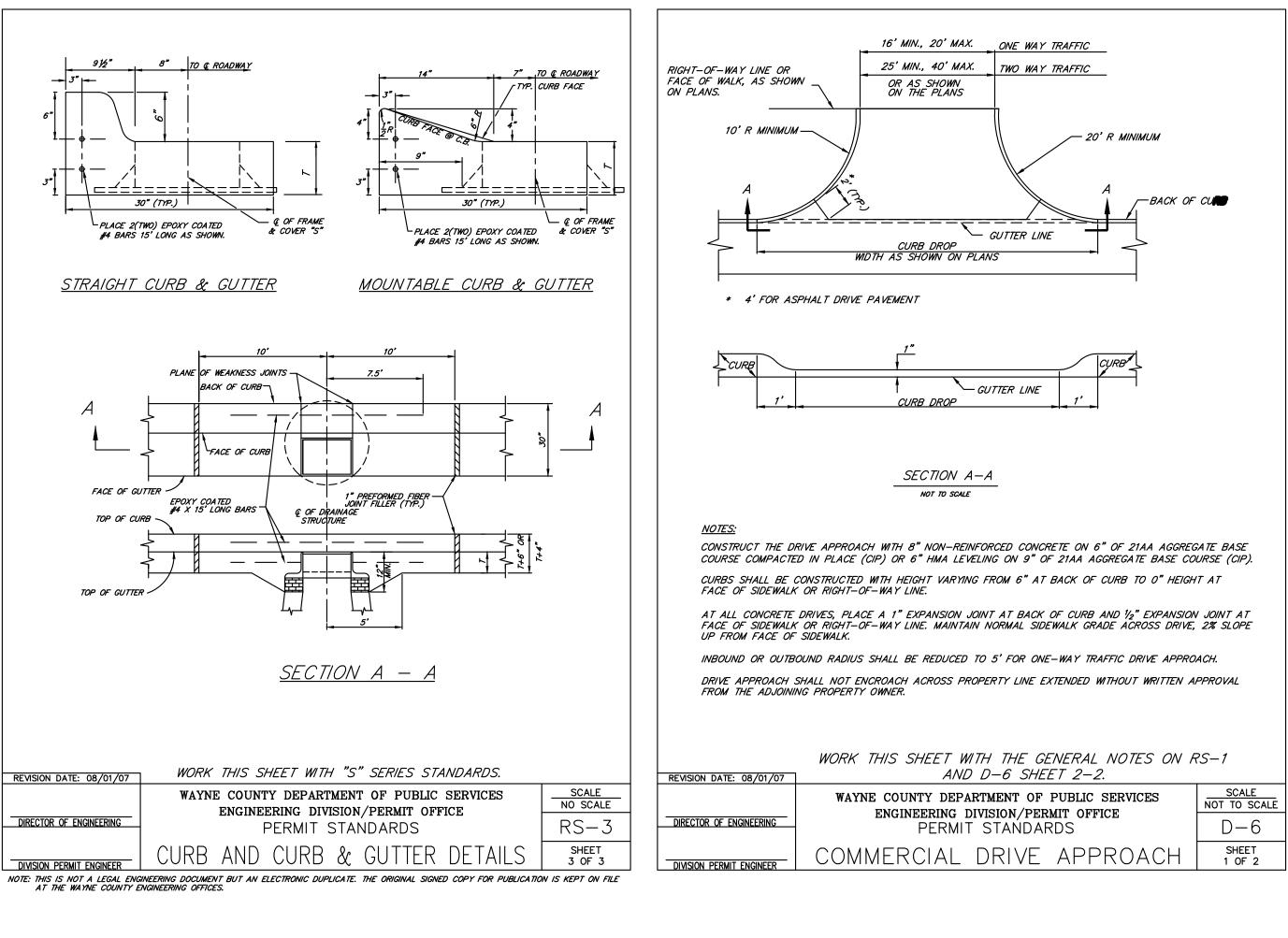
SCALE: 1" = 80'

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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CAUTION!!

CLIENT

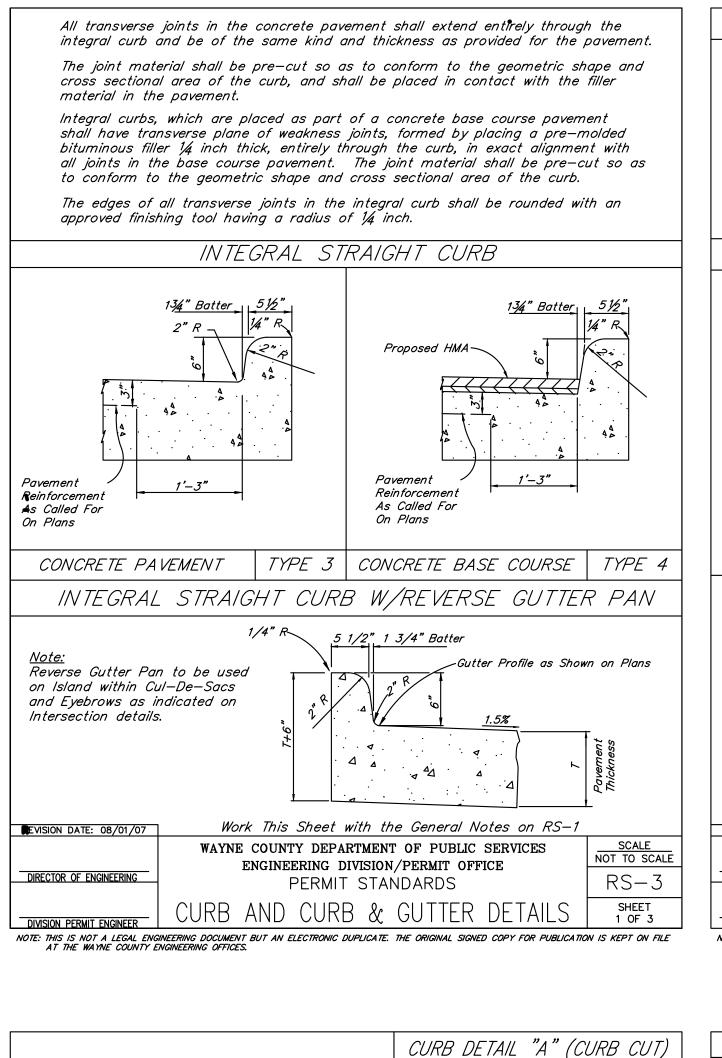




7" TO @ ROADWAY

30" (TYP.) \

MOUNTABLE CURB & GUTTER



Horizontal Saw Cut Line

DETAIL "B".

T (Conc. Pav't)

Existing Pavement

Vertical Full Depth

Existina Pavement

Vertical Full Depth

「(Con. Pav't)

Existing

Min.

Min.

REVISION DATE: 08/01/07

DIRECTOR OF ENGINEERING

DIVISION PERMIT ENGINEER

12"

Pavement

CURB DROP SHALL BE HORIZONTAL SAW

CURB HAS NOT BEEN HORIZONTALLY CUT

HAVE TO BE REMOVED BY SAW CUTTING

VERTICALLY AND REPLACED AS PER CURB

* IF LANE TIES CAN NOT

BE UTILIZED, DEEPEN

* IF LANE TIES CAN NOT

BE UTILIZED, DEEPEN

MONOLITHIC CURB AS

D-7

SHOWN.

CURB DETAIL "C" (CURB REPLACEMENT

SHOWN.

MONOLITHIC CURB AS

CUT AT 1" ABOVE GUTTER LINE. IF THE

SATISFACTORILY, THE CURB CUT WILL

CURB DETAIL "B" (CURB REPLACEMENT W/ DROP)

5 LANE TIES @ 41" on Center

5 LANE TIES @ 41" on Center

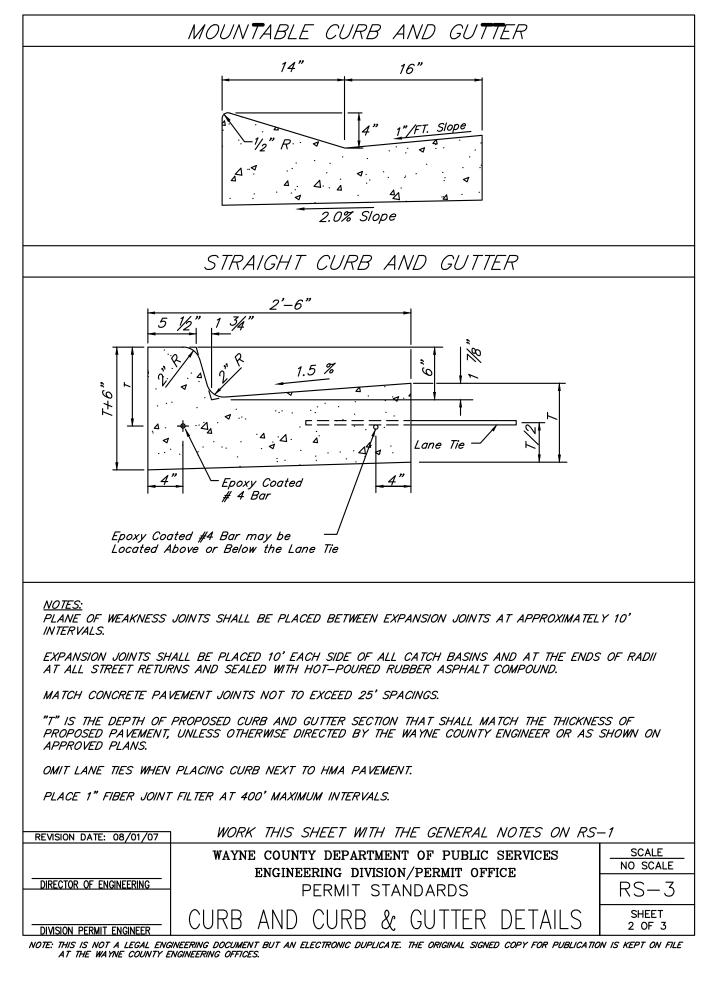
WORK THIS SHEET WITH THE GENERAL NOTES ON RS-1.

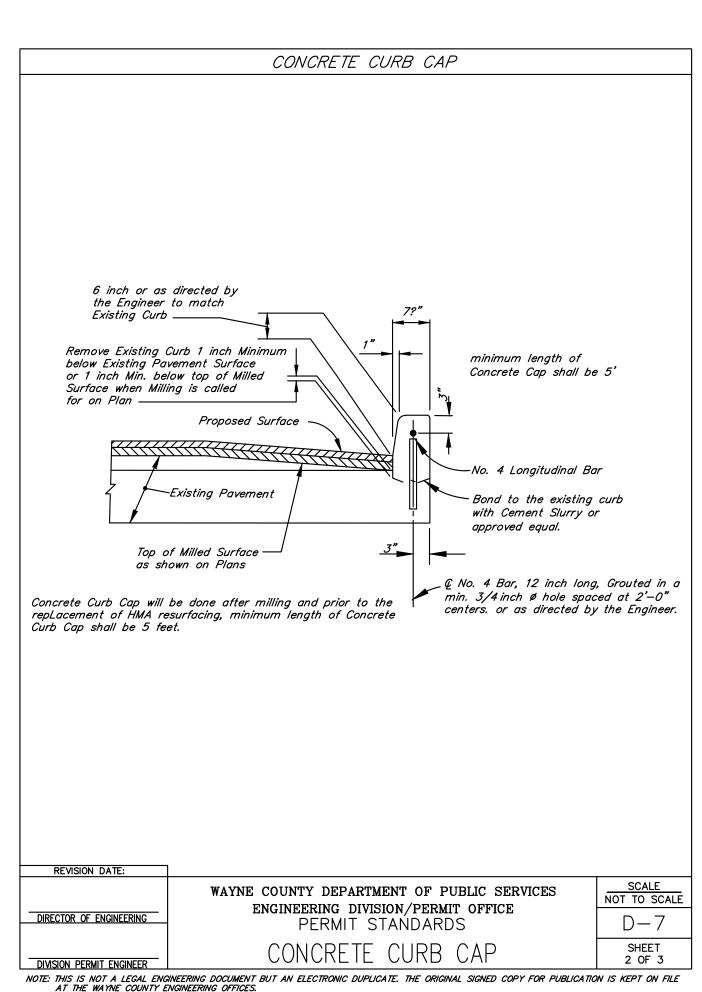
WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES

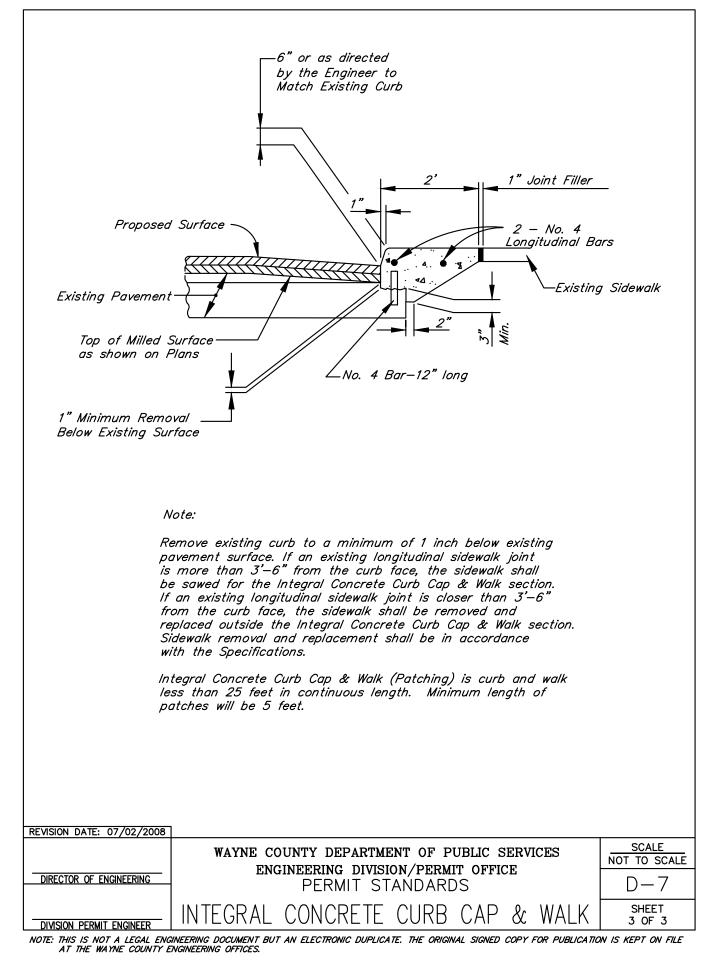
ENGINEERING DIVISION/PERMIT OFFICE

PERMIT STANDARDS

CURB DETAIL A , B , C







30" (TYP.)

PLACE 2(TWO) EPOXY COATED

#4 BARS 15' LONG AS SHOWN.

STRAIGHT CURB & GUTTER

FACE OF GUTTER -

TOP OF GUTTER

REVISION DATE: 08/01/07

DIRECTOR OF ENGINEERING

PLANE OF WEAKNESS JOINTS .

& COVER "S

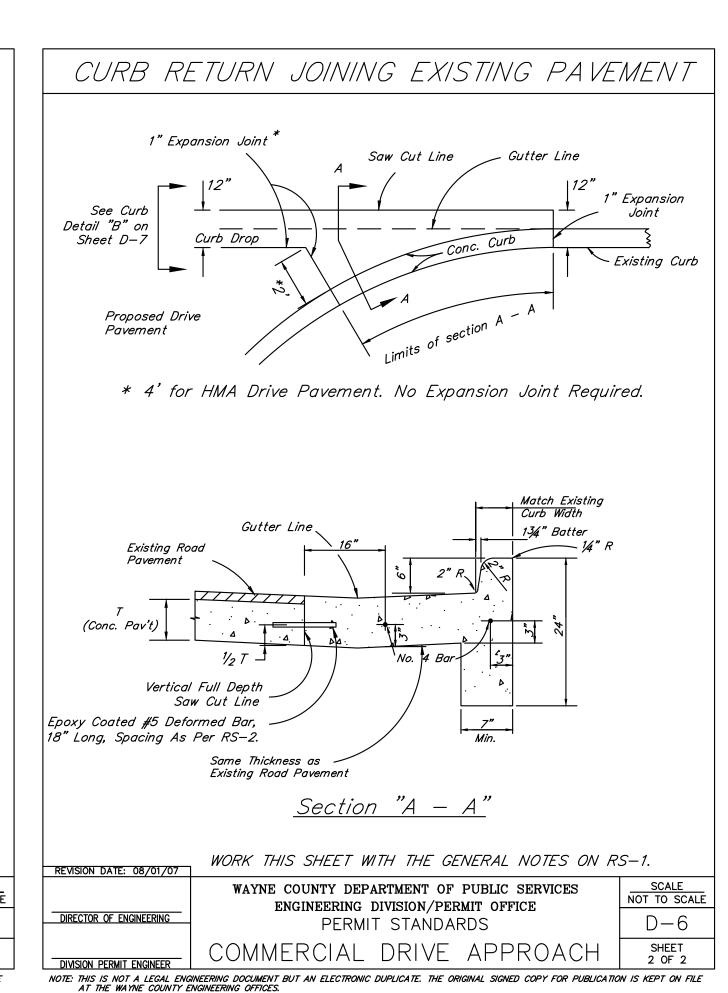
SECTION A - A

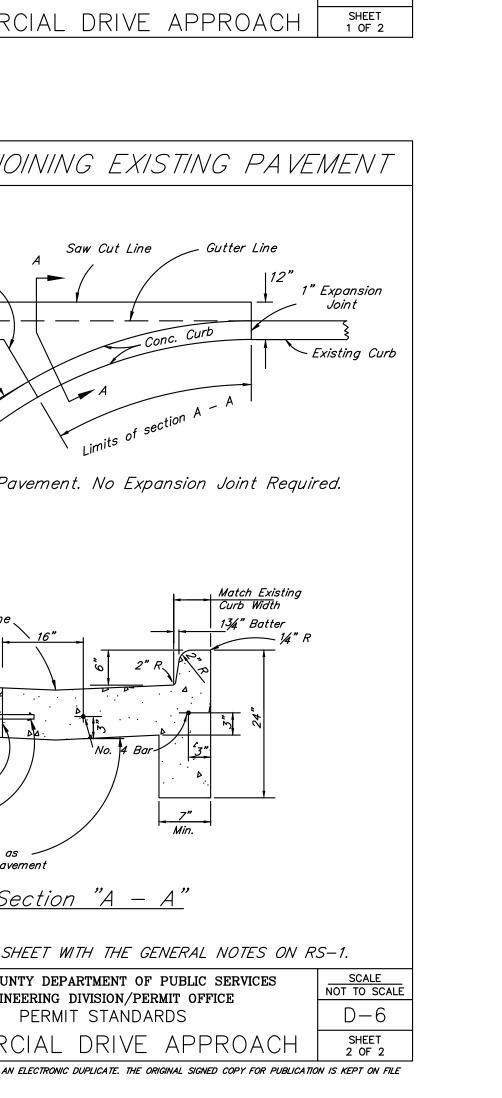
WORK THIS SHEET WITH "S" SERIES STANDARDS.

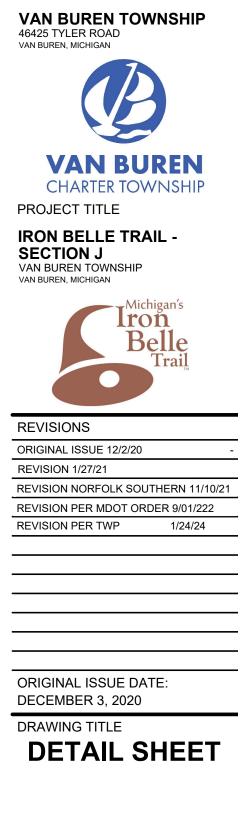
WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES

ENGINEERING DIVISION/PERMIT OFFICE

PERMIT STANDARDS







PEA JOB NO.

DRAWING NUMBER:

DN.

2020-0095

JTS

JMR

JMR

IRON BELLE TRAIL SECTION K

VAN BUREN TOWNSHIP WAYNE COUNTY, MICHIGAN



WAYNE COUNTY DPS GENERAL NOTES

- ALL WORK WITHIN THE WAYNE COUNTY ROAD RIGHT-OF-WAY (ROW) AND DRAIN EASEMENT SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS, INCLUDING SOIL EROSION AND SEDIMENTATION CONTROL OF THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, AND MDOT 2012 SPECIFICATIONS FOR CONSTRUCTION.
- 2. THESE PLANS ARE NOT VALID WITHOUT ATTACHMENT OF THE WAYNE COUNTY PERMIT SPECIFICATIONS FOR CONSTRUCTION WITHIN THE ROAD ROW, PARKS, DRAIN EASEMENT OR SANITARY SEWER UNDER JURISDICTION OF THE WAYNE COUNTY (07/01/93) REVISED 12/15/2004
- 3. CONTRACTOR SHALL CONTACT MISS DIG AT 811 TO IDENTIFY AND FLAG / MARK THE LOCATIONS OF ALL UNDERGROUND UTILITIES AT THE PROPOSED CONSTRUCTION AREAS PRIOR TO START OF CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES, AND RESOLVE ANY CONFLICT BETWEEN THE PROPOSED WORK AND THE EXISTING UNDERGROUND OR ABOVEGROUND UTILITIES.
- 4. CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL CLEARANCE AND 3 FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. ANY PROPOSED UTILITY PERMITTED TO CROSS UNDER THE ROAD OR DRAIN, MUST BE PLACED A MINIMUM OF 7 FEET BELOW THE LOWEST POINT OF THE ROAD, OR 6 FEET BELOW THE DRAIN BOTTOM. OVERHEAD WIRES/CABLES MUST BE INSTALLED 18 FEET MINIMUM ABOVE THE ROAD CENTERLINE. TO RELOCATE ANY UTILITY WITHIN THE ROAD ROW, THE CONTRACTOR SHALL COORDINATE THE RELOCATION WITH THE UTILITY COMPANY AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 5. ALL SURVEY MONUMENTS / CORNERS AND BENCH MARKS LOCATED WITHIN THE CONSTRUCTION AREA MUST BE PRESERVED IN ACCORDANCE WITH PUBLIC ACT 74 AS AMENDED (INCLUDING ACT 34, P.A. 2000) AND AS PER WAYNE COUNTY PERMIT RULE 1.5. THE PERMIT HOLDER AND CONTRACTOR SHALL COORDINATE THE WORK WITH A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF MICHIGAN DURING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF WITNESSING, PRESERVING OR REPLACING SURVEY MONUMENT AND MONUMENT BOXES.
- 6. EXPOSURE OF ANY UTILITIES UNDER THE PAVEMENT WILL NOT BE PERMITTED, UNLESS APPROVED BY THE WAYNE COUNTY ENGINEER. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED PER APPLICABLE WAYNE COUNTY STANDARD DETAILS AN AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 7. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE WAYNE COUNTY ROAD ROW AND DRAIN EASEMENT WITH 3" TOPSOIL, THM SEED MIX AND MULCH. SLOPES STEEPER THAN 1 ON 3 SHALL BE RESTORED BY PLACING SOD ON 2" TOPSOIL.
- 8. ALL BACKFILLS UNDER OR WITHIN 3 FEET OF THE PROPOSED OR EXISTING PAVEMENT, CURB OR SIDEWALK SHALL CONFORM TO THE WAYNE COUNTY TRENCH "B" BACKFILL REQUIREMENTS. TRENCH "A" BACKFILL MAY BE USED WITHIN THE ROAD ROW AREAS UNDER CONDITIONS OTHER THAN THOSE SPECIFIED FOR TRENCH "B".
- 9. CONTRACTOR IS RESPONSIBLE FOR RESTORING OR REPLACING ALL DISTURBED LANDSCAPED AREAS, SPRINKLER SYSTEMS, FENCES, SIGNS, MAIL BOXES, ETC. WITHIN THE WAYNE COUNTY ROAD ROW AND / OR AS DIRECTED BY THE COUNTY ENGINEER.
- 10. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES. OTHERWISE, DETOURING TRAFFIC MUST BE PER APPROVED PLANS. ALL SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF M.M.U.T.C.D.
- 11. MAINTAIN A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS AT ALL TIMES THROUGHOUT THE PROJECT DURATION.
- 12. TUNNELING, BORING AND JACKING OPERATIONS SHALL BE IN ACCORDANCE WITH THE WAYNE COUNTY SPECIFICATIONS AND DETAILS. BORE PITS SHALL BE PLACED AT MINIMUM 10 FEET FROM THE BACK OF CURB OR EDGE OF PAVEMENT.
- 13. REMOVE ALL ABANDONED CONDUITS FROM THE COUNTY ROADS ROW OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 14. CONTRACTOR SHALL PROVIDE COLD WEATHER PROTECTION FOR ALL PROPOSED CONCRETE WORK (PAVEMENTS, SIDEWALKS, DRIVE APPROACHES, ETC.) AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 15. OVERNIGHT VEHICLE PARKING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENTS ARE NOT PERMITTED WITHIN THE WAYNE COUNTY ROADS RIGHTS-OF-WAY.
- 16. CONTRACTOR SHOULD OBTAIN SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE WAYNE COUNTY DPS. CONTACT THE WAYNE COUNTY SOIL EROSION OFFICE AT (734) 326-3936, OR THE COMMUNITY HAVING JURISDICTION OVER THE SOIL EROSION PERMIT.
- 17. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 955-2161 AT LEAST 72 HOURS PRIOR TO START OF WORK AT OR NEAR ANY SIGNALIZED INTERSECTIONS.
- 18. CONTRACTOR SHALL NOTIFY WAYNE COUNTY 72 HOURS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734)

WAYNE COUNTY NOTE:

. WAYNE COUNTY R 23-0084 REVIEW NUMBER.

DESIGN TEAM

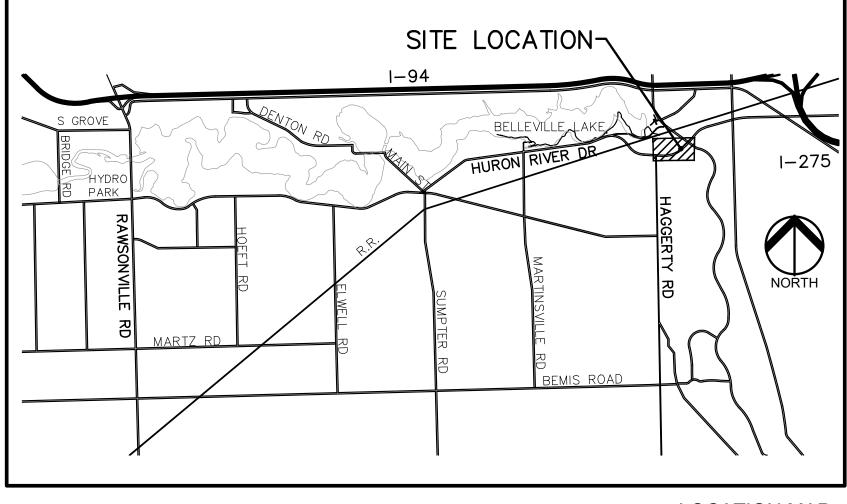
VAN BUREN TOWNSHIP

OWNER/APPLICANT/DEVELOPER CIVIL ENGINEER

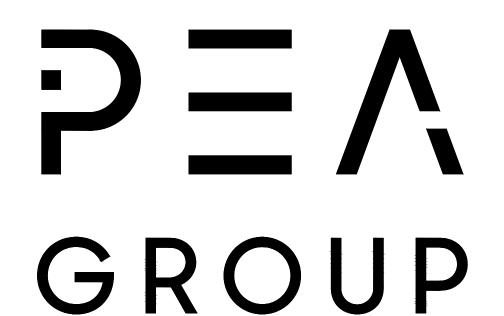
46425 TYLER ROAD VAN BUREN TWP, MI 48111 CONTACT: ELIZABETH RENAUD PHONE: (734) 699 - 8900 EXT. 9258 CELL: (734) 787-0542 EMAIL: ERENAUD@VANBUREN-MI.ORG PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JILL RICKARD, PE PHONE: 844.813.2949 EMAIL: JRICKARD@PEAGROUP.COM

LANDSCAPE ARCHITECT

PEA GROUP
7927 NEMCO WAY, STE. 115
BRIGHTON, MI 48116
CONTACT: JEFF SMITH, PLA, LEED AP
PHONE: 844.813.2949
EMAIL: JSMITH@PEAGROUP.COM



LOCATION MAP NO SCALE



	Sheet List Table
Sheet Number	Sheet Title
C-0.0	COVER SHEET
C-1.1	OVERALL SHEET
C-2.1	TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN
C-2.2	TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN
C-2.3	TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN
C-2.4	TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN
C-3.1	DIMENSIONAL PAVING PLAN
C-3.2	DIMENSIONAL PAVING PLAN
C-3.3	DIMENSIONAL PAVING PLAN
C-3.4	DIMENSIONAL PAVING PLAN
C-4.1	GRADING PLAN
C-4.2	GRADING PLAN
C-4.3	GRADING PLAN
C-4.4	GRADING PLAN
C-5.1	DETAIL SHEET
C-5.2	DETAIL SHEET

PROJECT DESCRIPTION:

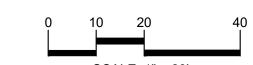
THIS PROJECT IS PART OF THE IRON BELLE TRAIL PROJECT. IT CONSISTS OF CONSTRUCTING APPROXIMATELY 10,984 SFT (.25 AC) OF SIDEWALK ALONG EAST HURON RIVER DRIVE AND 1000 SFT OF ASPHALT PATH ALONG METROPOLITAN PARKWAY. MODIFICATIONS TO THE TRAFFIC SIGNAL AT THE INTERSECTION ARE INCLUDED WITH THIS PROJECT. THIS PROJECT WILL CONNECT INTO SECTION J (PREVIOUSLY APPROVED) WHEN THE TRAFFIC LIGHT AT EAST HURON RIVER DRIVE AND HAGGERTY ROAD IS INSTALLED AT A FUTURE DATE.

REVISIONS		
DESCRIPTION	DATE	
ORIGINAL ISSUE DATE	12/12/2022	
REVISIONS PER TOWNSHIP	8/8/2023	
REVISIONS PER WAYNE COUNTY REVIEW	8/24/2023	











CAUTION!! TILITIES AS SHOWN ON THIS DRAWING ARE ONLY DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

VAN BUREN TOWNSHIP 46425 TYLER ROAD



PROJECT TITLE IRON BELLE TRAIL **SECTION K** VAN BUREN TOWNSHIF



REVISIONS	
ORIGINAL ISSUE	12-12-2022
REVISED PER TOWNSHIP	8-8-2023
REVISED PER WC REVIEW	8-24-2023

DRAWING TITLE OVERALI

PEA JOB NO. 2022-0652 JTS JMR .IMR

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, WAYNE COUNTY AND MUNICIPALITY STANDARDS AND REGULATIONS.

THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO

- THE CONTRACTOR SHALL CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL TOWNSHIP INSPECTION FEES.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE. VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- . ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, TOWNSHIP AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 10. THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER. COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE
- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE. 2. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- S. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE COUNTY PRIOR TO CONSTRUCTION.
- ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES. THE DETENTION BASIN SIDE SLOPES AND ALL SLOPE EXCEEDING 1:6 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH
- BLANKET PEGGED IN PLACE OVER SEED. . ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A

PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.

- MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL. IN
- IO. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.

THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR

- . THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
- 12. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- I3. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
- 14. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

GENERAL UTILITY NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWNSHIP/COUNTY.
- ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.
- WHERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT
- ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITIES. THE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER
- INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING. 6. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF FLARED END SECTION UNLESS NOTED OTHERWISE.

OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO ESTABLISHING FINAL GRADE. NOTIFY THE ENGINEER.

CONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE LIMITS

OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY UNSOUND AND/OR IN NEED OF REPAIR.

STORM SEWER NOTES:

ALL STORM SEWER 12" DIAMETER OR LARGER SHALL BE REINFORCED CONCRETE PIPE (RCP C-76) CLASS IV WITH MODIFIED TONGUE AND GROOVE JOINT WITH RUBBER GASKETS UNLESS SPECIFIED OTHERWISE (ASTM C-443).

PAVING NOTES:

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
- ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.
- CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION; 4.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST
- BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO ALLOW FOR SEALING. 4.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- 4.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. 4.4. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS:
- 4.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' 4.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15' 4.5. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- 4.6. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. CONCRETE CURBING JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION 5.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT
- 5.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS 5.1.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
- 5.1.3. PLACE 1" EXPANSION JOINT:
- 5.1.3.1. AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE 5.1.3.2. AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS
- 5.1.3.3. AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED LANDSCAPE ISLAND 5.2. JOINTS WHEN TIED TO CONCRETE PAVEMENT
- 5.2.1. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE CONTRACTION JOINTS IN PAVEMENT 5.2.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 5.2.3. PLACE 1" EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT
- 5.2.4. CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT) 5.3. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT): 5.3.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
- 5.3.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT
- CONCRETE SIDEWALK JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION 6.1. PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE WALK WHEN WIDTH IS LESS THAN 8' 6.2. PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER THAN 8'
- 6.3. PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION 6.4. PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100' SPACING
- 6.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES), UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS

CONSTRUCTION MATERIAL SUBMITTALS

UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIAL SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED.

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
- 2. UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED
- RIP RAP MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE
- 4. STORM AND SANITARY SEWER PIPING INCLUDING JOINTS
- 5. STORM AND SANITARY SEWER STRUCTURES
- 6. STORM AND SANITARY SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS
- . PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
- . PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
- PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER: •8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000)
- •8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862) •8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
- 10. SITE FENCING AND GATES INCLUDING FOOTINGS
- 1. SITE RAILINGS INCLUDING FOOTING OR EMBEDMENTS
- 12. ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
- •• RETAINING WALL MATERIAL AND STRUCTURAL CALCULATIONS
- TRENCH DRAIN MATERIAL AND SHOP DRAWING DEPICTING THE LAYOUT OF THE SYSTEM
- ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

VAN BUREN, MICHIGAN

ORIGINAL ISSUE DATE: **DECEMBER 12, 2022**

DRAWING NUMBER:

FLOODPLAIN: (Per Flood Insurance Rate Map Number 26163C0358E. effective February 2, 2012) BY GRAPHICAL PLOTTING, THE SITE LIES WITHIN: SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water—surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

(GPS DERIVED - NAVD88)

BENCHMARKS

OTHER AREAS

BM #300 TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.

ZONE X — Area to be determined outside of the 0.2% annual chance floodplain.

MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY.

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL
- 2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- 3. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR
- . SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- 5. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES,
- 6. REFER TO SHEET C-5.2 FOR TREE PROTECTION DETAILS.
- THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- D. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
- 11. ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
- 12. REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
- 13. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
- 14. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 15. TREES REMOVED WITHIN UNDER PROPOSED WALK ARE TO BE STUMPED.

DEMOLITION LEGEND: ITEM TO BE PROTECTED ITEM TO BE REMOVED FENCE/CURB/GUARD RAIL REMOVAL ·*|·|·|·|·|·|* AREA OR ITEMS TO BE REMOVED UTILITY REMOVAL ASPHALT REMOVAL TREE REMOVAL SAWCUT LINE __ _ _

LEGEND: -OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE -UG-CATV-TV- EX. U.G. CABLE TV & PEDESTAL -UG-ELEC-E-E-EX. U.G. ELEC, MANHOLE, METER & HANDHOLE — - — - — EX. GAS LINE © GAS EX. GAS VALVE & GAS LINE MARKER — — — — EX. WATER MAIN ∀ → W EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE ----- EX. SANITARY SEWER © S EX. SANITARY CLEANOUT & MANHOLE EX. COMBINED SEWER MANHOLE —— -- EX. STORM SEWER EX. CLEANOUT & MANHOLE EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN EX. YARD DRAIN & ROOF DRAIN EX. UNIDENTIFIED STRUCTURE M → ★ EX, MAILBOX, SIGN & LIGHTPOLE X EX. FENCE • • • EX. GUARD RAIL EX. SPOT ELEVATION EX. CONTOUR * 👱 * 👱 * EX. WETLAND IRON FOUND / SET NAIL FOUND / NAIL & CAP SET

REFERENCE DRAWINGS:

BRASS PLUG SET

MONUMENT FOUND / SET

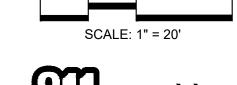
SECTION CORNER FOUND

NO INFORMATION AS OF 11/03/22 WATER MAIN SANITARY SEWER STORM SEWER **ELECTRIC** COMMUNICATION

WAYNE COUNTY PLAT DATED 4/11/68 AT&T DATED 3/19/20 DTE DATED 4/08/20 COMCAST DATED 3/19/20 DTE GAS EMAIL DATED 10/27/22

RECORDED / MEASURED / CALCULATED

www.peagroup.com





CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY OTHER 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE **IRON BELLE TRAIL SECTION K** VAN BUREN TOWNSHIP

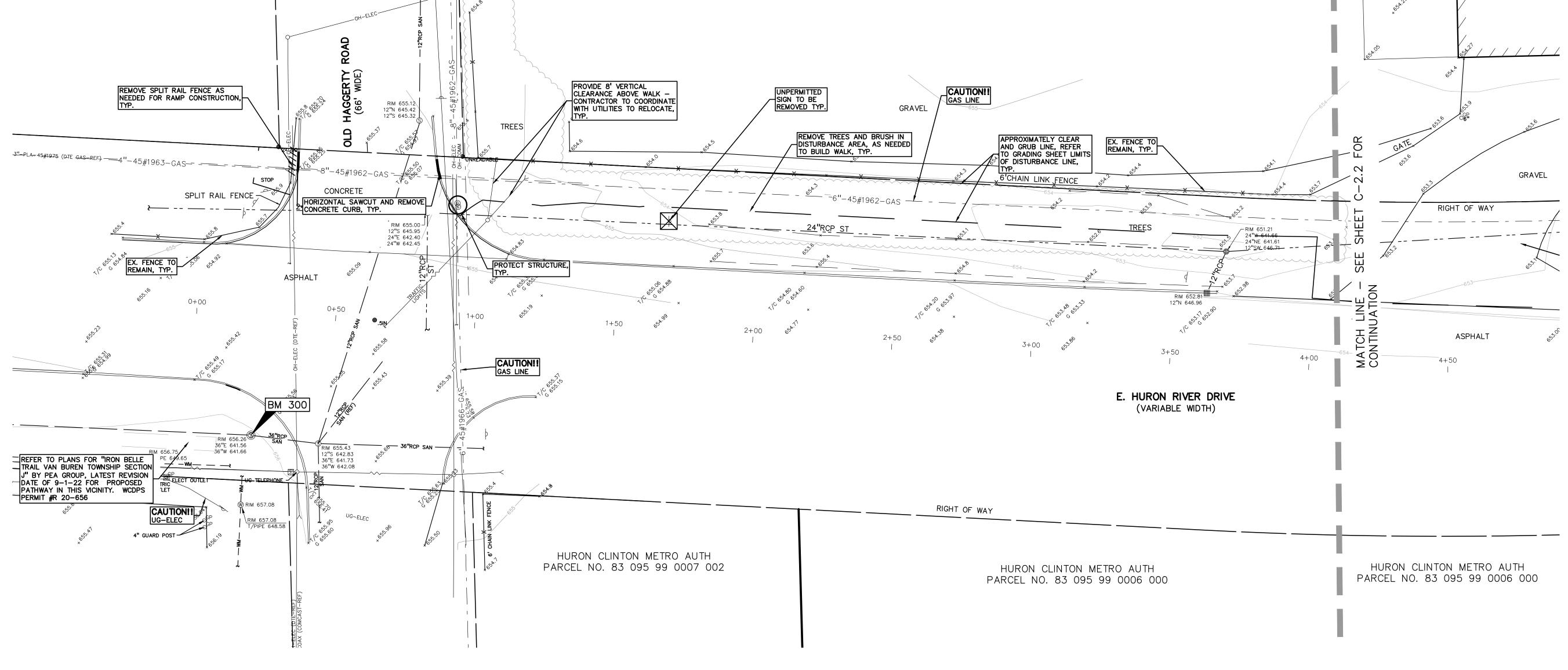


REVISIONS ORIGINAL ISSUE 12-12-2022 REVISED PER TOWNSHIP 8-8-2023 REVISED PER WC REVIEW 8-24-2023

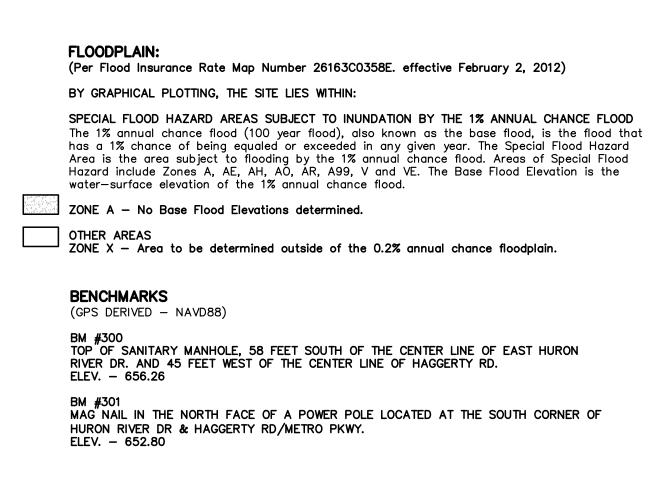
ORIGINAL ISSUE DATE: **DECEMBER 12, 2022** DRAWING TITLE

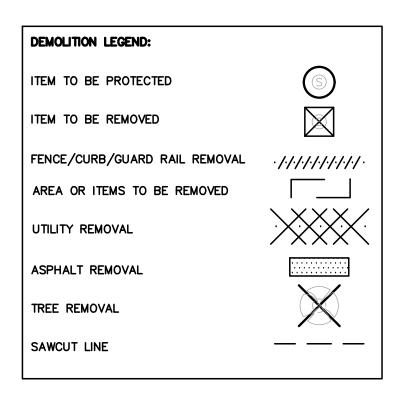
TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN

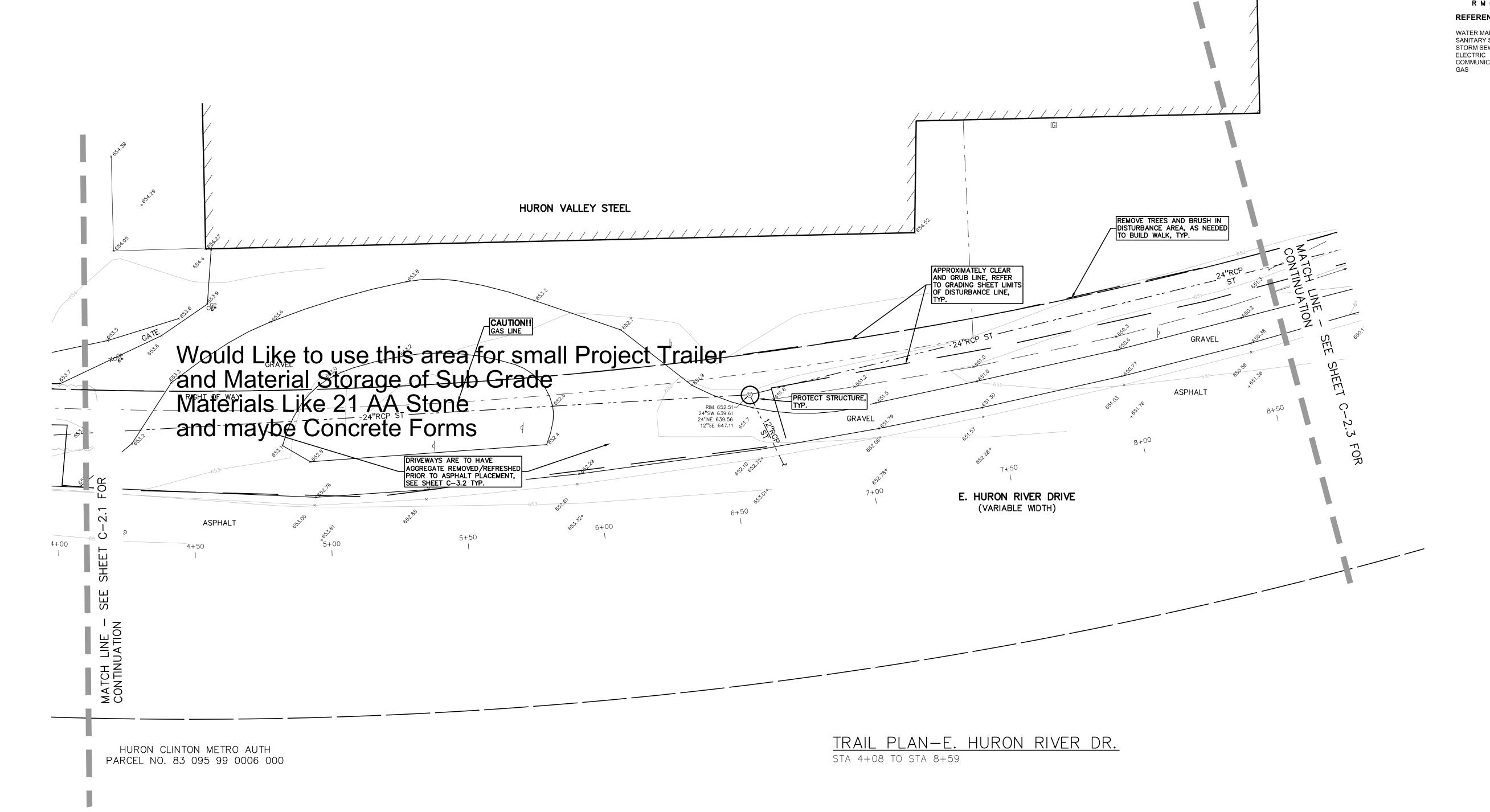
PEA JOB NO. 2022-0652 JTS JMR JMR DRAWING NUMBER:



STA 0+000 STA 4+08







LEGEND:

EX. GAS LINE
 EX. GAS VALVE & GAS LINE MARKER
 EX. TRANSFORMER & IRRIGATION VALVE

EX. SANITARY SEWER

© S EX. SANITARY CLEANOUT & MANHOLE

© EX. COMBINED SEWER MANHOLE

--- EX. STORM SEWER

© S EX. CLEANOUT & MANHOLE

EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN

EX. SQUARE, ROUND, & BEEHIVE CATO

OY.D.
EX. YARD DRAIN & ROOF DRAIN

EX. UNIDENTIFIED STRUCTURE

EX. MAILBOX, SIGN & LIGHTPOLE

EX. FENCE

EX. GUARD RAIL

EX. FENCE

EX. GUARD RAIL

EX. SPOT ELEVATION

EX. CONTOUR

EX. WETLAND

IRON FOUND / SET

NAIL FOUND / NAIL & CAP SET
BRASS PLUG SET
MONUMENT FOUND / SET
SECTION CORNER FOUND

REFERENCE DRAWINGS:

WATER MAIN
SANITARY SEWER
STORM SEWER
ELECTRIC
COMMUNICATION
GAS
NO INFORMATION AS OF 11/03/22
WAYNE COUNTY PLAT DATED 4/11/68
AT&T DATED 3/19/20
DTE DATED 4/08/20
COMCAST DATED 3/19/20
DTE GAS EMAIL DATED 10/27/22

RECORDED / MEASURED / CALCULATED

PE/ GROUI

www.peagroup.com







CAUTION!!

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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE

IRON BELLE TRAIL
SECTION K
VAN BUREN TOWNSHIP



REVISIONS	
ORIGINAL ISSUE	12-12-2022
REVISED PER TOWNSHIP	8-8-2023
REVISED PER WC REVIEW	8-24-2023

ORIGINAL ISSUE DATE: DECEMBER 12, 2022 DRAWING TITLE

TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	₹.

FLOODPLAIN: (Per Flood Insurance Rate Map Number 26163C0358E. effective February 2, 2012) BY GRAPHICAL PLOTTING, THE SITE LIES WITHIN:

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water—surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

ZONE X — Area to be determined outside of the 0.2% annual chance floodplain.

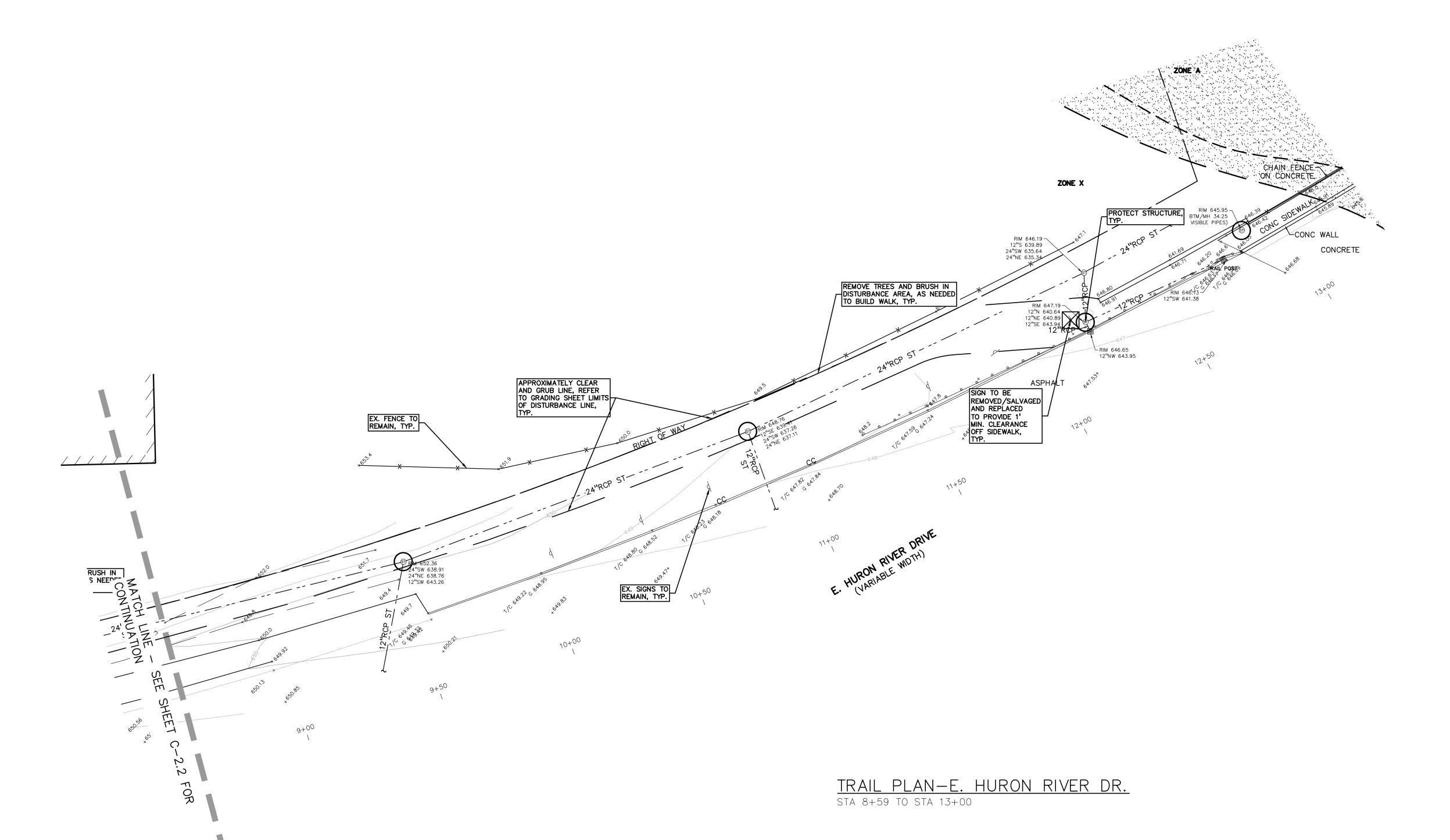
BENCHMARKS

(GPS DERIVED - NAVD88)

BM #300
TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.

BM #301 MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY.

DEMOLITION LEGEND: ITEM TO BE PROTECTED ITEM TO BE REMOVED FENCE/CURB/GUARD RAIL REMOVAL ·/·/·/·/·/·/·/·/·/· AREA OR ITEMS TO BE REMOVED UTILITY REMOVAL ASPHALT REMOVAL TREE REMOVAL _ _ _ _ SAWCUT LINE



LEGEND:

-OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE -UG-COMM----⊠-T- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE -UG-ELEC-E-E-EX. U.G. ELEC,MANHOLE, METER & HANDHOLE — - — - — EX. GAS LINE © GAS EX. GAS VALVE & GAS LINE MARKER

EX. COMBINED SEWER MANHOLE —— -- EX. STORM SEWER ⊚ ⑤ EX. CLEANOUT & MANHOLE EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN O^{Y.D.} ® EX. YARD DRAIN & ROOF DRAIN EX. UNIDENTIFIED STRUCTURE M → ★ EX. MAILBOX, SIGN & LIGHTPOLE

• • • • EX. GUARD RAIL EX. SPOT ELEVATION EX. CONTOUR EX. WETLAND

BRASS PLUG SET MONUMENT FOUND / SET SECTION CORNER FOUND RECORDED / MEASURED / CALCULATED

⊗

S

EX. WATER VALVE BOX & SHUTOFF

∀ → W EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE

— — — EX. WATER MAIN

----- EX. SANITARY SEWER

REFERENCE DRAWINGS:

 \oplus

WATER MAIN NO INFORMATION AS OF 11/03/22 SANITARY SEWER WAYNE COUNTY PLAT DATED 4/11/68 STORM SEWER AT&T DATED 3/19/20 DTE DATED 4/08/20 ELECTRIC COMMUNICATION COMCAST DATED 3/19/20 DTE GAS EMAIL DATED 10/27/22

www.peagroup.com



SCALE: 1" = 20'

CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE **IRON BELLE TRAIL** SECTION K
VAN BUREN TOWNSHIP
VAN BUREN, MICHIGAN

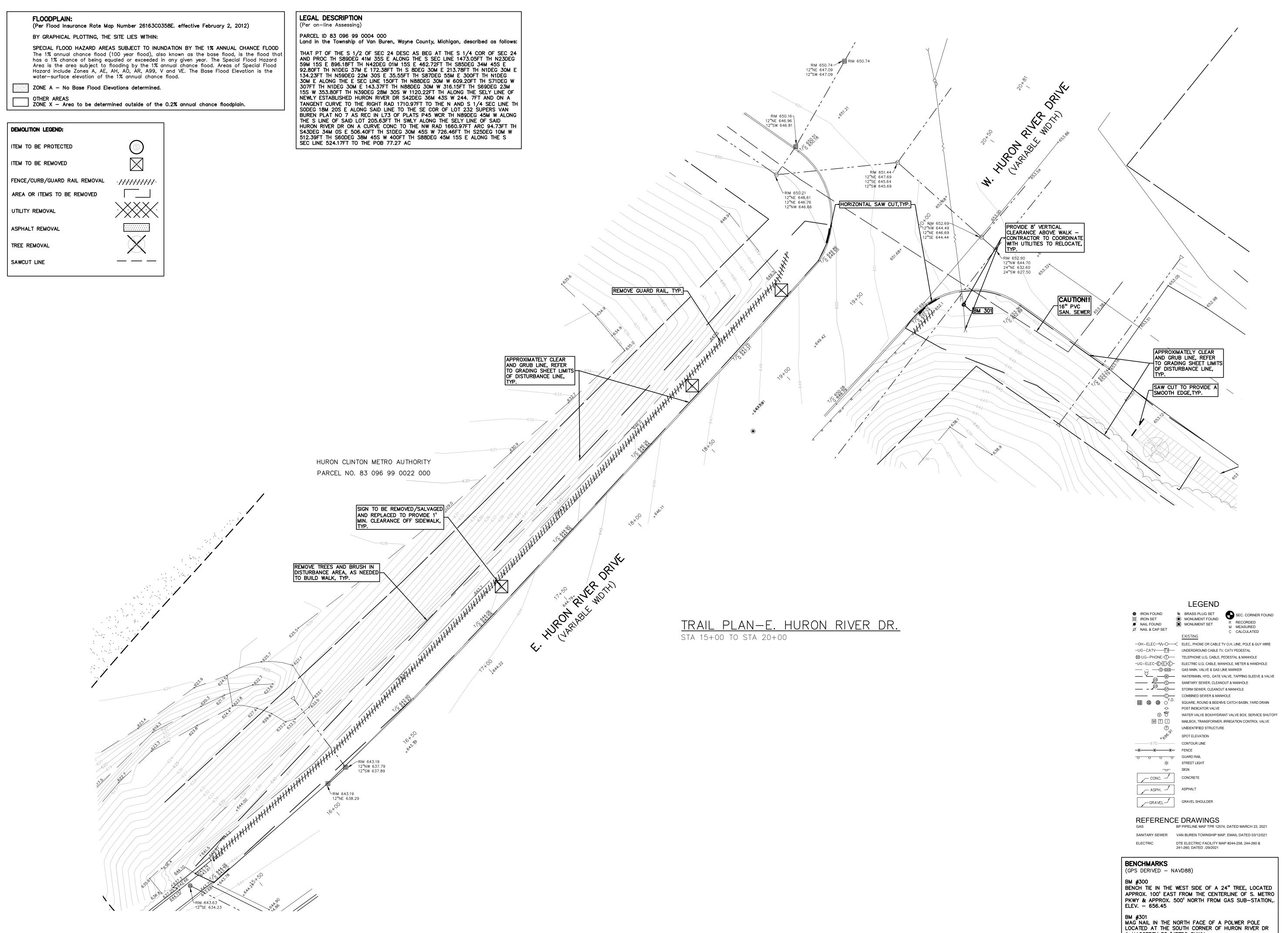


REVISIONS ORIGINAL ISSUE REVISED PER TOWNSHIP 8-8-2023 REVISED PER WC REVIEW 8-24-2023

ORIGINAL ISSUE DATE: DECEMBER 12, 2022 DRAWING TITLE

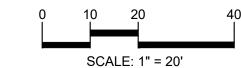
TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	 -



PEA GROUP t: 844.813.2949 www.peagroup.com

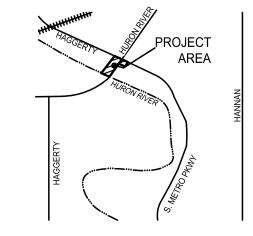






CAUTION!!

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 EXCLUSIVELY RESPONSIBLE FOR
DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS
PRIOR TO THE START OF CONSTRUCTION.



CLIENT

HURON CLINTON METROPARKS 13000 HIGH RIDGE DRIVE BRIGHTON, MICHIGAN 48114

PROJECT TITLE

HURON RIVER
DRIVE SIDEWALK
PART OF THE SOUTH 1/2 OF SECTION 24
BELLEVILLE, MICHIGAN

EVISIONS
-
·
PRIGINAL ISSUE DATE:

AUGUST 30, 2021

DRAWING TITLE

TOPOGRAPHICAL

OPOGRAPHICAL SURVEY AND DEMOLITION PLAN

PEA JOB NO. 2021-0108

P.M. JS

DN. JMR

DES. JMR

DRAWING NUMBER:

C-2.4

& HAGGERTY RD/METRO PKWY.

ELEV. - 652.80

WAYNE COUNTY CONSTRUCTION NOTES:

- SAWCUT FULL DEPTH THE EXISTING PAVEMENT TO THE NEAREST JOINT WITHIN WAYNE COUNTY ROAD RIGHT-OF-WAY AND REMOVE THE EXISTING PAVEMENT AND CURBS AS DIRECTED BY
- 2. CONSTRUCT WAYNE COUNTY ROAD PAVEMENT PER WAYNE COUNTY STANDARDS DETAIL "PR-1" OR "PR-2" AS APPLICABLE, OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 3. PLACE 9" OF 21AA AGGREGATE COMPACTED TO MINIMUM 95% DENSITY OF MAXIMUM UNIT WEIGHT OR AS DIRECTED BY WAYNE COUNTY ENGINEER.
- . CONSTRUCT WAYNE COUNTY ROAD PAVEMENT REPAIRS WITH MINIMUM OF 2.0" HMA TOP (F) ON MINIMUM 10" NON-REINFORCED CONCRETE WC 35 P MIX (3500 PSI AT 28 DAYS) AND INTEGRAL STRAIGHT CURB TYPE "4" AS PER WAYNE COUNTY STANDARD DETAIL "RS-3" OR AS DIRECTED BY WAYNE COUNTY ENGINEER.
- 5. TIE THE NEW PAVEMENT TO THE EXISTING PAVEMENT WITH #5 EPOXY COATED BARS AT MAXIMUM 43-INCH ON CENTER LONGITUDINALLY AND AT 18-INCH ON CENTER TRANSVERSELY AS PER WAYNE COUNTY STANDARD DETAIL "RS-2" OR AS DIRECTED BY THE COUNTY ENGINEER.
- 6. PLACE THE CONSTRUCTION JOINTS OF THE NEW PAVEMENT TO MATCH THE EXISTING PAVEMENT JOINTS OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 7. REPLACE ANY DAMAGED CURBS AS A RESULT OF THIS PROJECT ACTIVITY AS PER WAYNE COUNTY STANDARD DETAIL "D-7" OR AS DIRECTED BY THE COUNTY ENGINEER.
- 8. ANY DAMAGED UNDERDRAIN AS A RESULT OF THIS PROJECT ACTIVITY SHALL BE RECONSTRUCTED AS PER WAYNE COUNTY DETAIL "S-14" OR AS DIRECTED BY THE COUNTY ENGINEER.
- 9. ANY DAMAGED SIDEWALK AS A RESULT OF THIS PROJECT ACTIVITY SHALL BE RECONSTRUCTED AS PER WAYNE COUNTY DETAIL "RS-5" OR AS DIRECTED BY THE COUNTY ENGINEER.

PROPOSED CROSSWALK -STRIPING, SEE DETAIL SHEET

PROPOSED SIDEWALK RAMP, TYP. REFER TO LEGEND

THIS SHEET AND DETAIL

RELOCATE GUY WIRES

1+50

HURON CLINTON METRO AUTH

PARCEL NO. 83 095 99 0007 002

SHEET C-5.1.

MAXIMUM CROSS SLOPE ON

2+00

SIDEWALK 2.0%, TYP.

- 10. MAINTAIN A MAXIMUM 2% TRANSVERSE SLOPE ON THE SIDEWALK.
- 11. ANY DAMAGED SIDEWALK RAMPS SHOULD BE REPLACED TO MATCH THE ADA REQUIREMENTS AS PER MDOT STANDARD DETAIL "R-28-I".
- 12. STRUCTURE ADJUSTMENT SHALL BE DETERMINED AT THE SITE BY WAYNE COUNTY ENGINEER.

0+00

- 13. RELOCATE, RESTORE, OR REPLACE ANY TRAFFIC SIGNS THAT ARE AFFECTED BY THIS CONSTRUCTION AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 14. RELOCATE ANY EXISTING UTILITY THAT IS IN CONFLICT WITH THE PROPOSED WORK AS DIRECTED BY THE COUNTY ENGINEER AND UTILITY COMPANY REPRESENTATIVE.

GENERAL NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- . WAYNE COUNTY ENGINEER WILL DETERMINE THE LOCATION OF ALL SIGNS THAT ARE REMOVED AND RELOCATED AS PART OF THIS PROJECT.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.

REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

PROPOSED 7' WIDE CONCRETE SIDEWALK. REFER TO DETAIL

NOTE:
ALL WORK WITHIN THE HAGGERTY ROAD &
E. HURON RIVER DRIVE RIGHT-OF-WAY IS
UNDER THE JURISDICTION OF THE WAYNE
COUNTY AND REQUIRES A PERMIT.

ON SHEET C-5.1

2+50

SIDEWALK RAMP 'TYPE R' SIDEWALK RAMP 'TYPE F' SIDEWALK RAMP 'TYPE P' SIDEWALK RAMP 'TYPE C' SIDEWALK RAMP 'TYPE D' CURB DROP ONLY REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

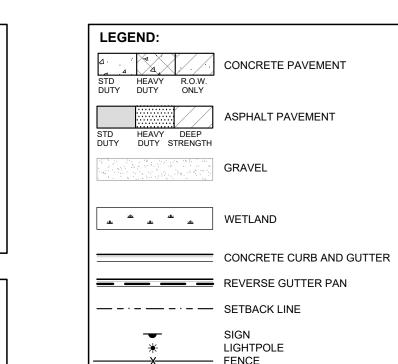
SIDEWALK RAMP LEGEND:

SIGN LEGEND: REMOVED AND RELOCATED SIGN 1 REFER TO DETAIL SHEET FOR SIGN DETAILS

RIGHT-OF-WAY, TYP.

4+00

3+50



GUARD RAIL

MAXIMUM CROSS SLOPE ON SIDEWALK 2.0%, TYP.

THICKENED CONCRETE
SIDEWALK AT THE DRIVES,
SEE DETAIL SHEET C-5.2
TYP.

4+50

HURON CLINTON METRO AUTH

PARCEL NO. 83 095 99 0006 000









CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY UTILLITIES 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT **VAN BUREN TOWNSHIP** 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE **IRON BELLE TRAIL** SECTION K VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



REVISED PER TOWNSHIP 8-8-2023	REVISIONS	
	ORIGINAL ISSUE	12-12-2022
REVISED PER WC REVIEW 8-24-2023	REVISED PER TOWNSHIP	8-8-2023
	REVISED PER WC REVIEW _	8-24-2023

ORIGINAL ISSUE DATE: DECEMBER 12, 2022

DRAWING TITLE **DIMENSIONAL**

PAVING PLAN

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	₹.

E. HURON RIVER DRIVE

(VARIABLE WIDTH)

HURON CLINTON METRO AUTH

PARCEL NO. 83 095 99 0006 000

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.

2. REFER TO NOTES & DETAILS SHEET FOR ON—SITE PAVING DETAILS.

. REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R' R

SIDEWALK RAMP 'TYPE F' P

SIDEWALK RAMP 'TYPE P' P

SIDEWALK RAMP 'TYPE C' C

SIDEWALK RAMP 'TYPE D' D

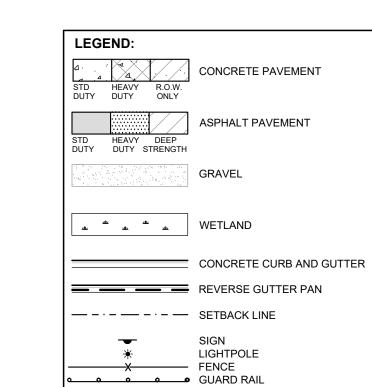
CURB DROP ONLY X

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

SIGN LEGEND:

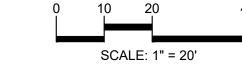
REMOVED AND RELOCATED SIGN

REFER TO DETAIL SHEET FOR SIGN DETAILS











CAUTION!!

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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



IRON BELLE TRAIL SECTION K VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN

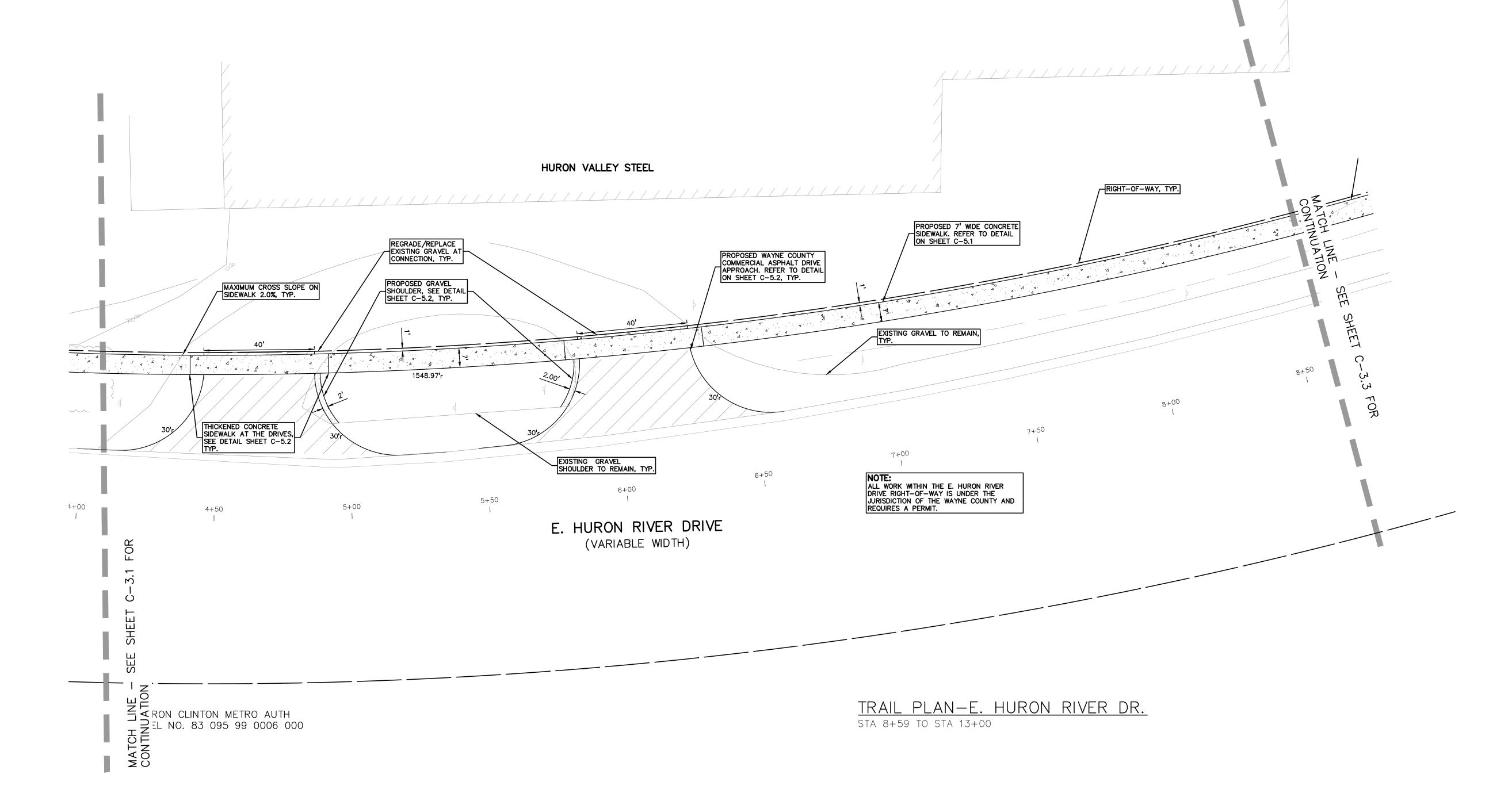


REVISIONS	
ORIGINAL ISSUE	12-12-202
REVISED PER TOWNSHIP	8-8-202
REVISED PER WC REVIEW	8-24-202

ORIGINAL ISSUE DATE: DECEMBER 12, 2022 DRAWING TITLE

DIMENSIONAL PAVING PLAN

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
	·



GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT. . ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.

2. REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS. . REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

RIGHT-OF-WAY, TYP.

PROPOSED SIGN RELOCATION, LOCATION TO BE FIELD DETERMINED BY WAYNE COUNTY ENGINEER, TYP.

TRAIL PLAN-E. HURON RIVER DR. STA 33+50 TO STA 38+00

ALL WORK WITHIN THE E. HURON RIVER

MAXIMUM CROSS SLOPE ON SIDEWALK 2.0%, TYP.

8+50 1

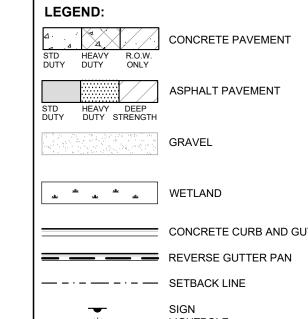
DRIVE RIGHT-OF-WAY IS UNDER THE JURISDICTION OF THE WAYNE COUNTY AND REQUIRES A PERMIT.

PROPOSED 7' WIDE CONCRETE SIDEWALK. REFER TO DETAIL ON SHEET C-5.1

ZONE X

CONNECT TO EXISTING CONCRETE SIDEWALK, THICKEN EDGE TO MATCH BRIDGE DECK.

SIDEWALK RAMP LEGEND	•
SIDEWALK RAMP 'TYPE R'	$^{\mathbb{R}}$
SIDEWALK RAMP 'TYPE F'	(E)
SIDEWALK RAMP 'TYPE P'	P
SIDEWALK RAMP 'TYPE C'	©
SIDEWALK RAMP 'TYPE D'	
CURB DROP ONLY	\otimes
REFER TO LATEST MDOT R-28 RAMP AND DETECTABLE WARN	· · · · · · · · · · · · · · · · · · ·



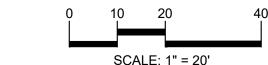
CONCRETE CURB AND GUTTER SIGN LIGHTPOLE X FENCE GUARD RAIL

SIGN LEGEND: REMOVED AND RELOCATED SIGN 1 REFER TO DETAIL SHEET FOR SIGN DETAILS



ÐΞΛ

t: 844.813.2949 www.peagroup.com





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL SECTION K VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



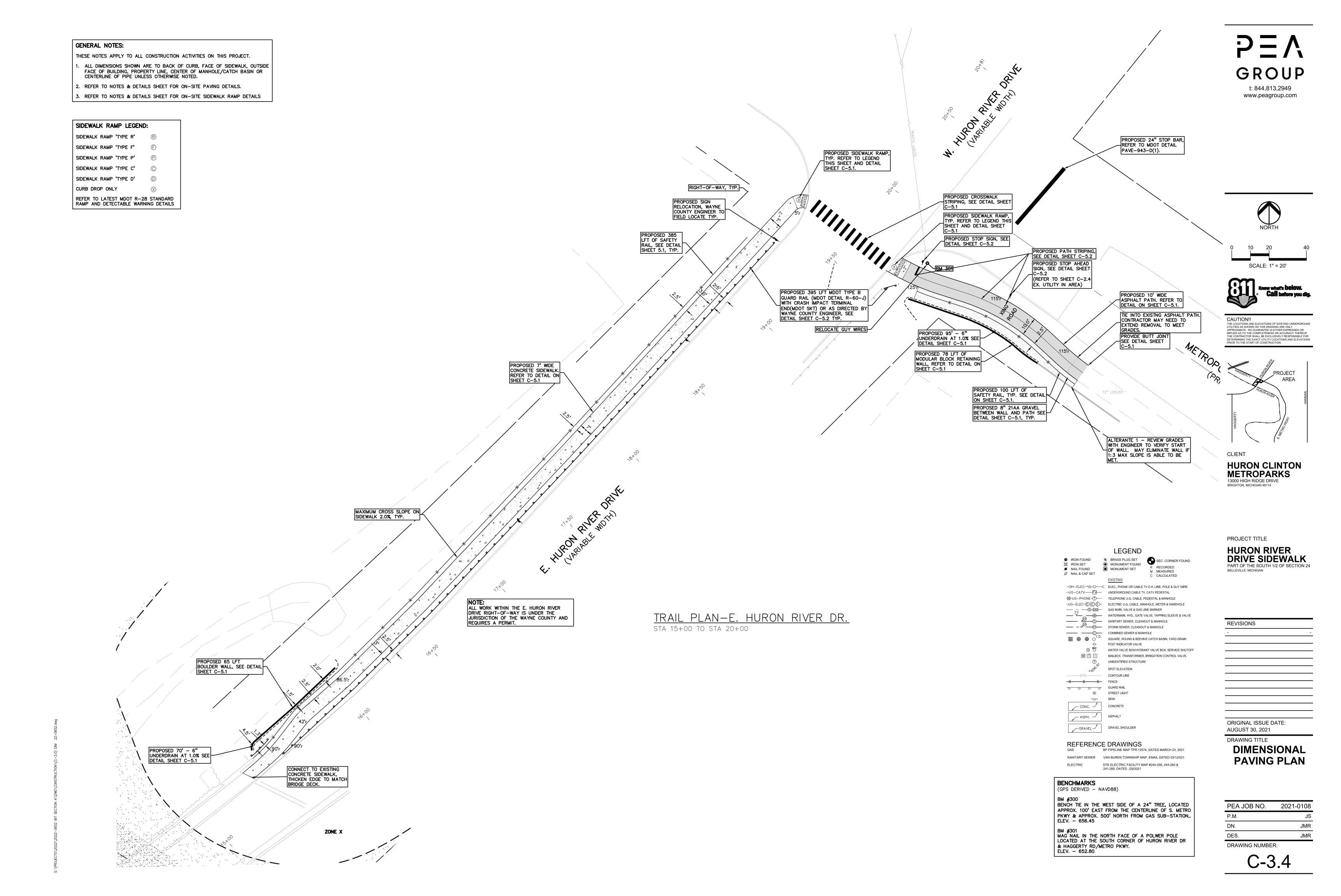
REVISIONS	
ORIGINAL ISSUE	12-12-2022
REVISED PER TOWNSHIP	8-8-2023
REVISED PER WC REVIEW	8-24-2023

ORIGINAL ISSUE DATE: DECEMBER 12, 2022

DRAWING TITLE **DIMENSIONAL**

PAVING PLAN

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER).



BENCHMARKS

(GPS DERIVED - NAVD88)

BM #300
TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.

MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY. ELEV. - 652.80

SYMBOLS: EROSION CONTROL

— D — SILT FENCE (REFER TO DETAIL ON SHEET C-6.1 SHEET)

(REFER TO DETAIL ON SHEET C-6.1 SHEET)

APPROXIMATE SEEDING RESTORATION LOCATIONS LIMITS OF DISTURBANCE

GENERAL SITE CONDITIONS:

. TOTAL DISTURBED AREA = \pm 0.48 ACRES

SOIL EROSION CONTROL NOTES:

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE WAYNE COUNTY.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY REPAIRS SHALL BE PERFORMED WITHOUT
- . EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED AND A CERTIFICATE OF COMPLETION HAS BEEN ISSUED BY THE WAYNE COUNTY FOR THE SESC PERMIT.
- STAGING THE WORK SHALL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
- SOIL EROSION CONTROL PRACTICES SHALL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

THE CONTRACTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES ONCE EACH WEEK AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. THE FOLLOWING STEPS SHALL BE IMPLEMENTED IF ANY DAMAGE HAS OCCURRED.

- ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
- ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY. 3. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT
- ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
- INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
- . A WATER TRUCK SHALL BE AVAILABLE TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.

STREET CLEAN	IING SCH	EDULE					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SCRAPE STREETS		×	×	×	×	×	×
SWEEP STREETS				×			

EROSION CONTROL QUANTITIES: AREA DISTURBED = .71 AC.

1655 LF INLET FILTERS 5 EA. 3" TOPSOIL, SEED & MULCH 1855 S.Y

FINAL INSPECTION AND CERTIFICATE OF COMPLETION REQUIREMENTS:

- ALL ITEMS ON APPROVED SESC PLAN AND PERMIT MUST BE COMPLETED.
- ALL DISTURBED EARTH MUST BE PERMANENTLY STABILIZED WITH VEGETATION OR HARD SURFACE.
- ACCUMULATED SEDIMENT MUST BE REMOVED FROM
- THE ENTIRE STORM SEWER SYSTEM.
- THE SEDIMENTATION BASIN.
- ALL TEMPORARY SESC DEVICES MAY BE REMOVED AFTER CERTIFICATE OF COMPLETION.

T/P = TOP OF PAVEMENT F.G. = FINISH GRADE T/S = TOP OF SIDEWALK RIM = RIM ELEVATION ACCUMULATED SEDIMENT MUST BE REMOVED FROM T/W = TOP OF WALL B/W = BOTTOM OF WALL

EARTHWORK BALANCING NOTE:

GRADING LEGEND:

622.50

ABBREVIATIONS

T/C = TOP OF CURB

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION:

TYPICALLY TOP OF PAVEMENT

IN CURB LINES.

PROPOSED REVERSE GUTTER PAN

——922—— PROPOSED CONTOUR

- - - - PROPOSED RIDGE LINE

REFER TO GRADING NOTES ON SHEET C-1.1.

----- PROPOSED SWALE/DITCH

EXISTING CONTOUR

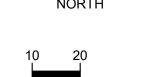
IN PAVED AREAS, GUTTER GRADE

G = GUTTER GRADE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.



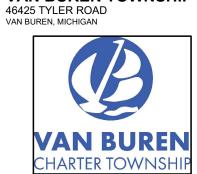






CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT **VAN BUREN TOWNSHIP**



PROJECT TITLE **IRON BELLE TRAIL SECTION K** VAN BUREN TOWNSHIP



REVISIONS	
ORIGINAL ISSUE	12-12-202
REVISED PER TOWNSHIP	8-8-202
REVISED PER WC REVIEW	8-24-202

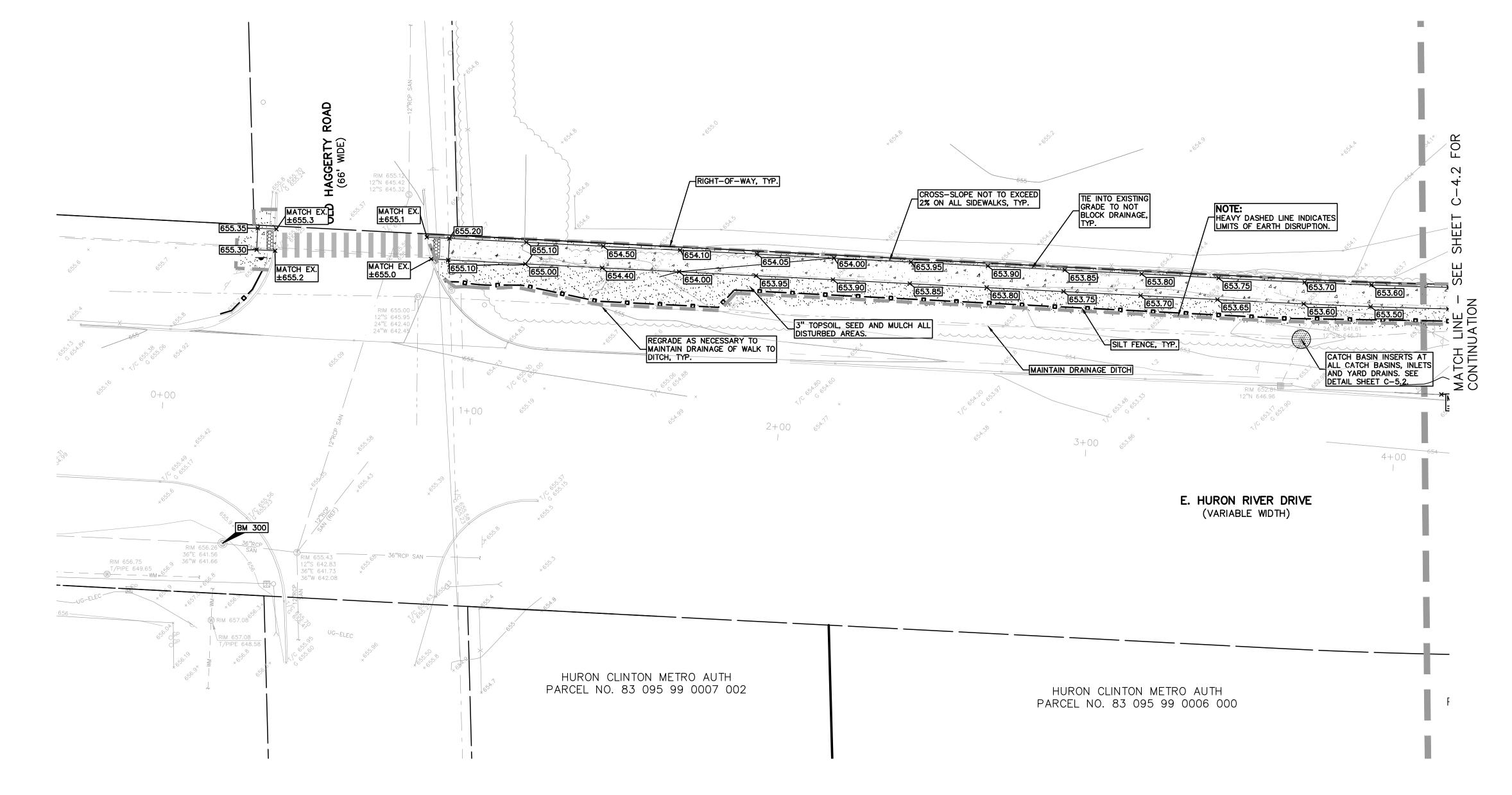
ORIGINAL ISSUE DATE: **DECEMBER 12, 2022**

DRAWING TITLE **GRADING PLAN**

PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR

NOT FOR CONSTRUCTION

DRAWING NUMBER:



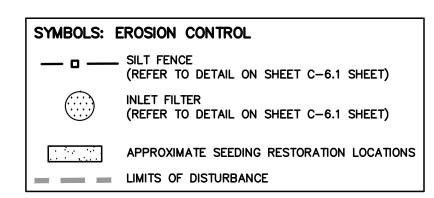
TRAIL PLAN-E. HURON RIVER DR.

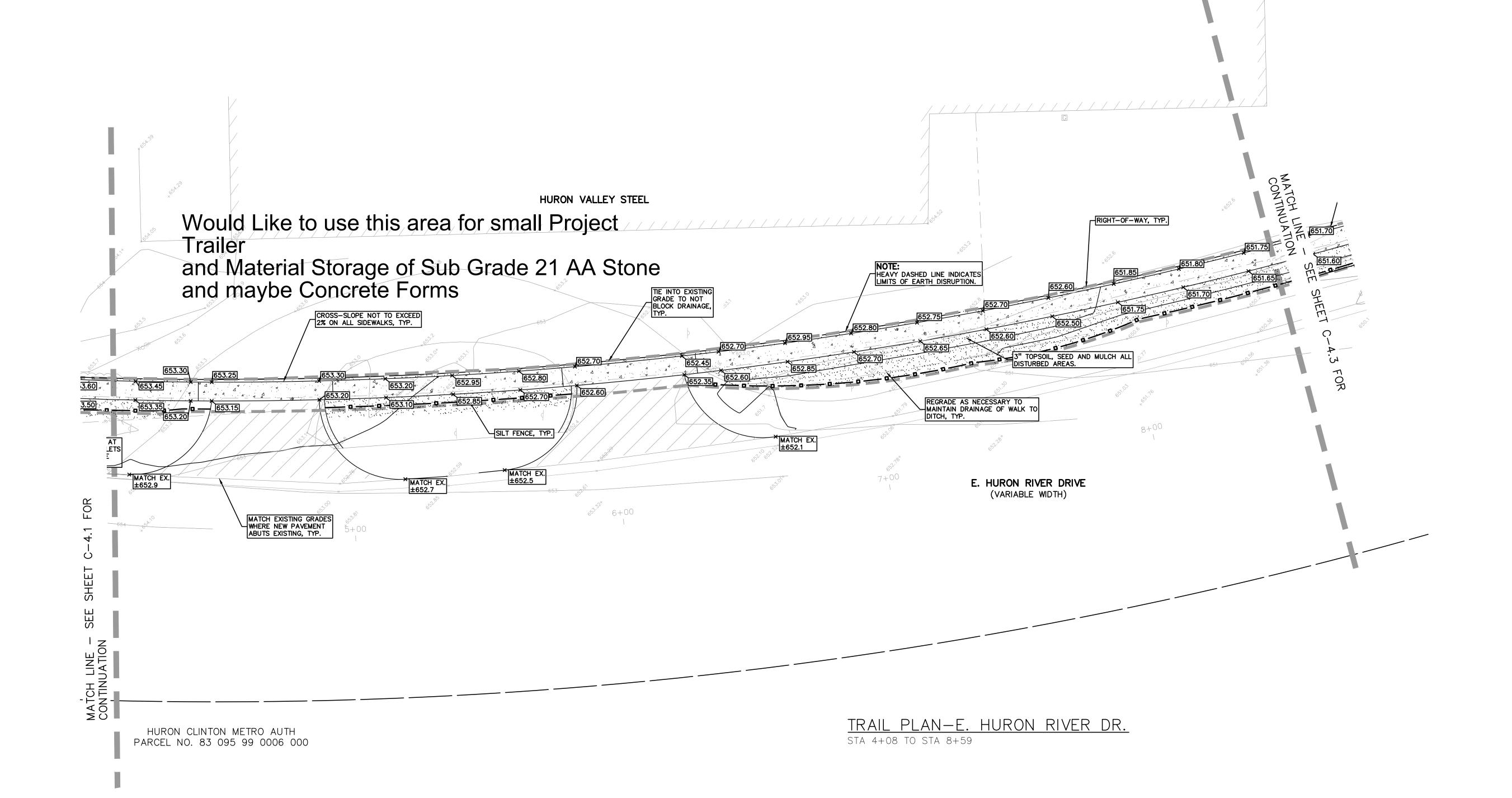
STA 0+00 TO STA 4+08

BENCHMARKS (GPS DERIVED - NAVD88)

BM #300 TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD. ELEV. — 656.26

MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY. ELEV. - 652.80





GRADING LEGEND:

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

EXISTING CONTOUR

PROPOSED REVERSE GUTTER PAN

---- PROPOSED RIDGE LINE ----- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB T/P = TOP OF PAVEMENT F.G. = FINISH GRADE T/S = TOP OF SIDEWALK RIM = RIM ELEVATION T/W = TOP OF WALL B/W = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET C-1.1.

EARTHWORK BALANCING NOTE:

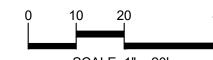
THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.



ÞΞΛ

GROUP

www.peagroup.com





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



IRON BELLE TRAIL SECTION K VAN BUREN TOWNSHIP



REVISIONS	
ORIGINAL ISSUE	12-12-20
REVISED PER TOWNSHIP	8-8-20
REVISED PER WC REVIEW	8-24-20

ORIGINAL ISSUE DATE: **DECEMBER 12, 2022**

DRAWING TITLE

GRADING PLAN

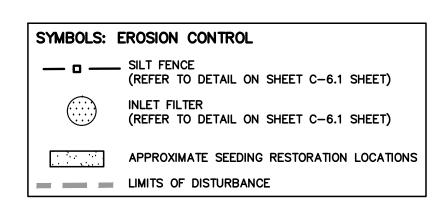
PEA JOB NO.	2022-0652
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER	•

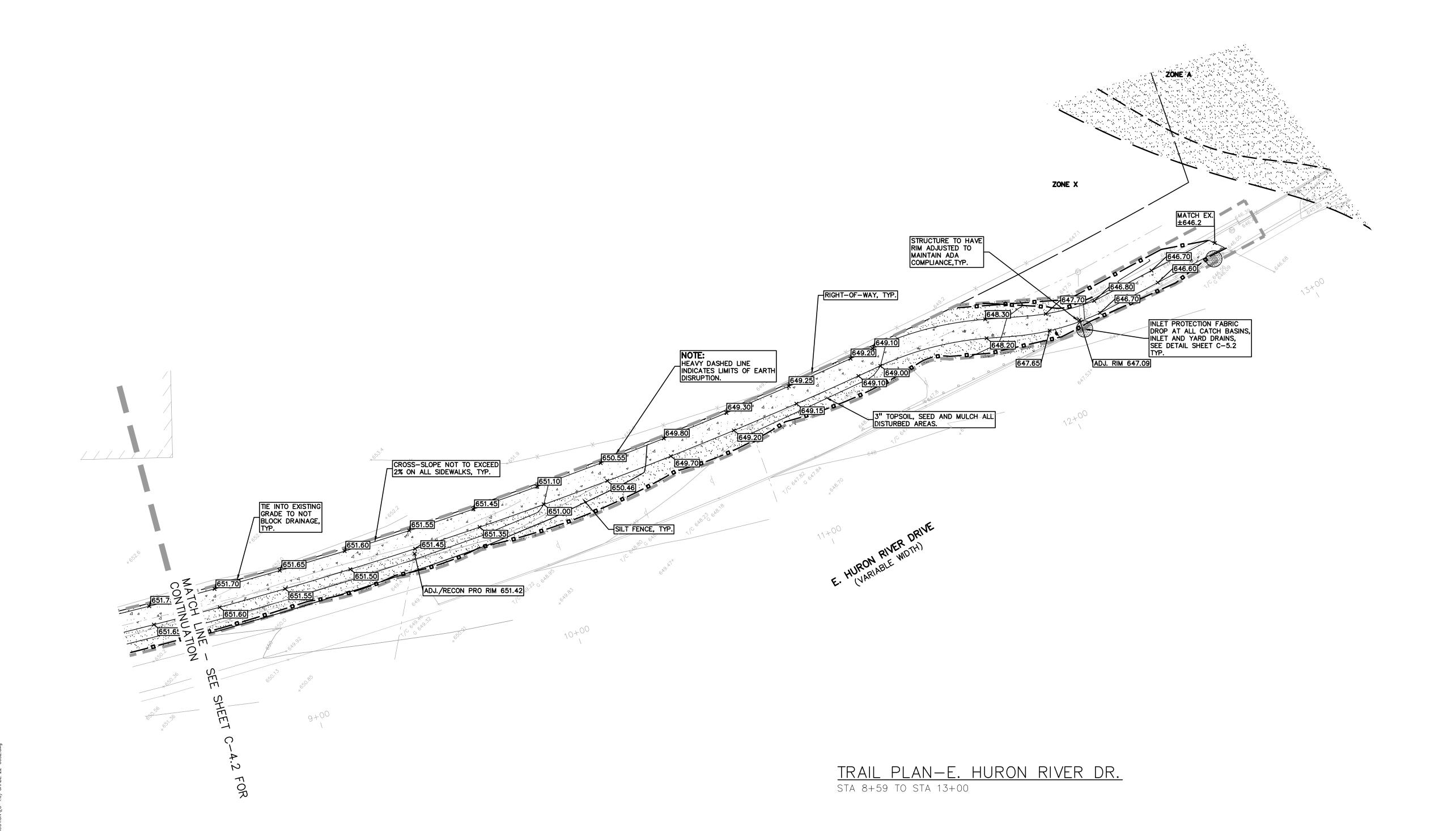
BENCHMARKS

(GPS DERIVED - NAVD88)

BM #300 TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD. ELEV. — 656.26

BM #301
MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY.
ELEV. — 652.80







EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

 EXISTING CONTOUR ——922—— PROPOSED CONTOUR

PROPOSED REVERSE GUTTER PAN - - - - PROPOSED RIDGE LINE

----- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB G = GUTTER GRADE T/P = TOP OF PAVEMENT F.G. = FINISH GRADE T/S = TOP OF SIDEWALK RIM = RIM ELEVATION T/W = TOP OF WALL B/W = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET C-1.1.

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.



t: 844.813.2949

www.peagroup.com





CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



PROJECT TITLE IRON BELLE TRAIL SECTION K VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN

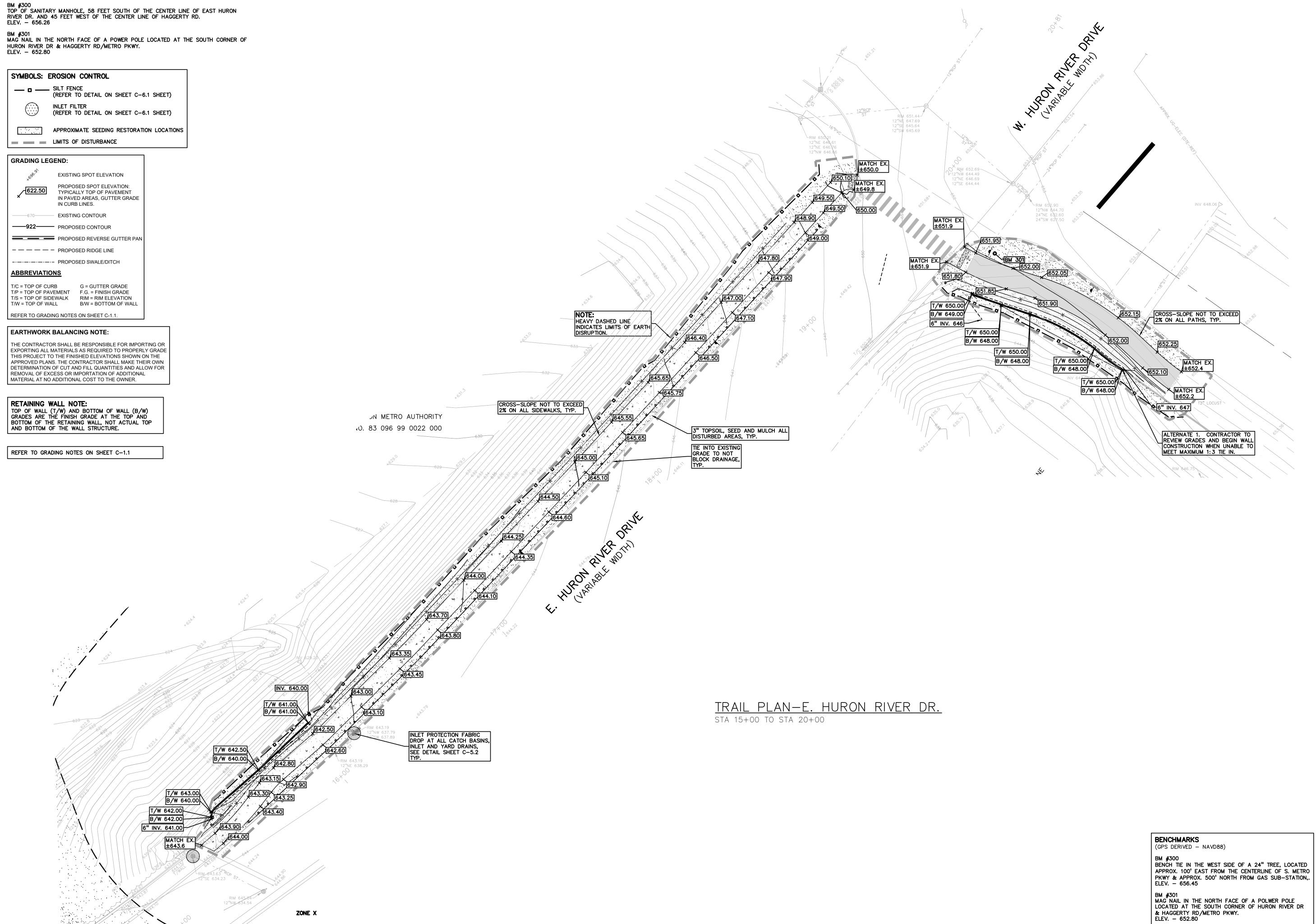


REVISIONS ORIGINAL ISSUE REVISED PER TOWNSHIP 8-8-2023 REVISED PER WC REVIEW 8-24-2023

ORIGINAL ISSUE DATE: DECEMBER 12, 2022

DRAWING TITLE **GRADING PLAN**

PEA JOB NO.	2022-065
P.M.	JT
DN.	JMI
DES.	JMI
DRAWING NUMBER).

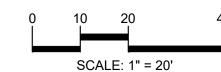


BENCHMARKS

(GPS DERIVED - NAVD88)

t: 844.813.2949 www.peagroup.com







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN, MICHIGAN



IRON BELLE TRAIL SECTION K VAN BUREN TOWNSHIP VAN BUREN, MICHIGAN



REVISIONS ORIGINAL ISSUE 12-12-2022 REVISED PER TOWNSHIP 8-8-2023 REVISED PER WC REVIEW 8-24-2023

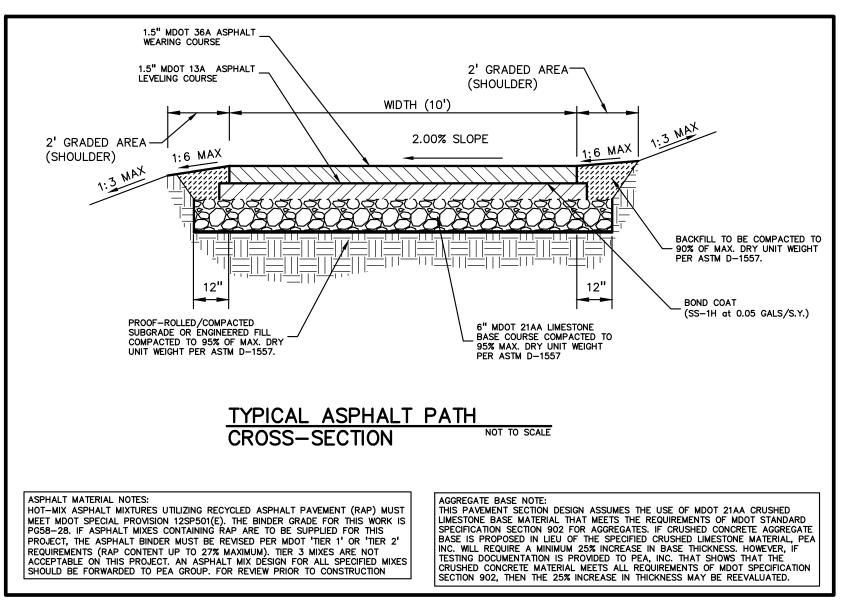
ORIGINAL ISSUE DATE: DECEMBER 12, 2022

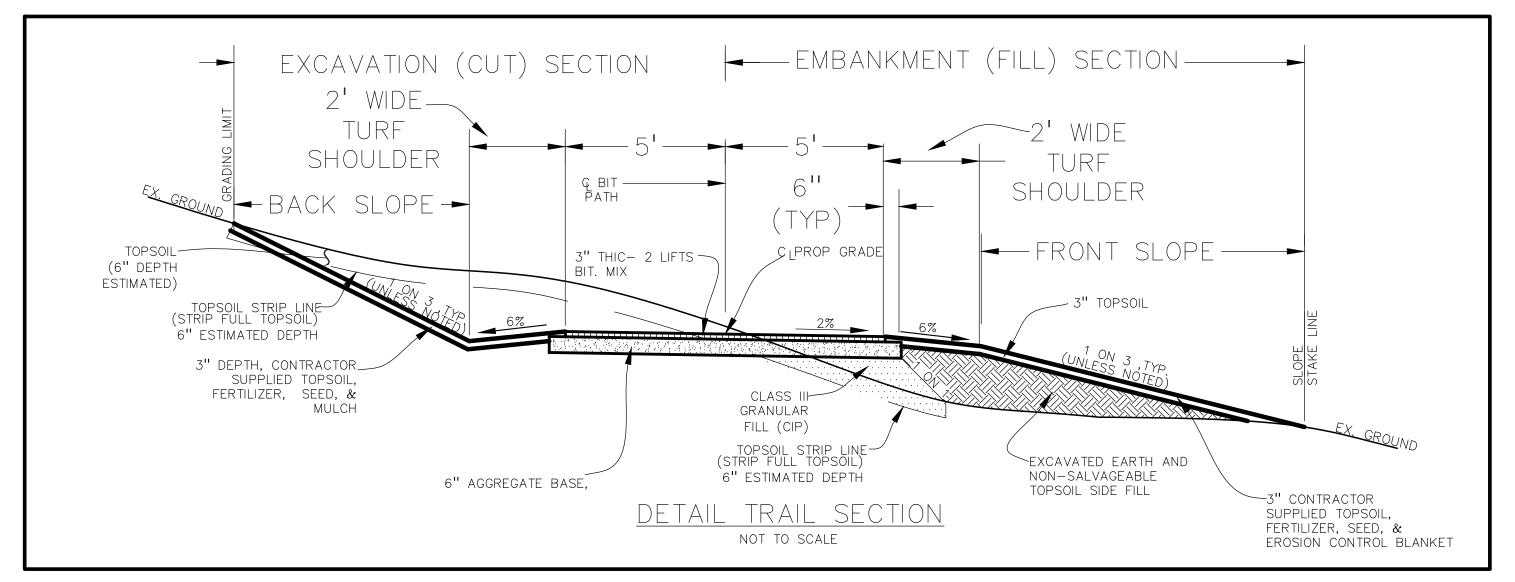
DRAWING TITLE

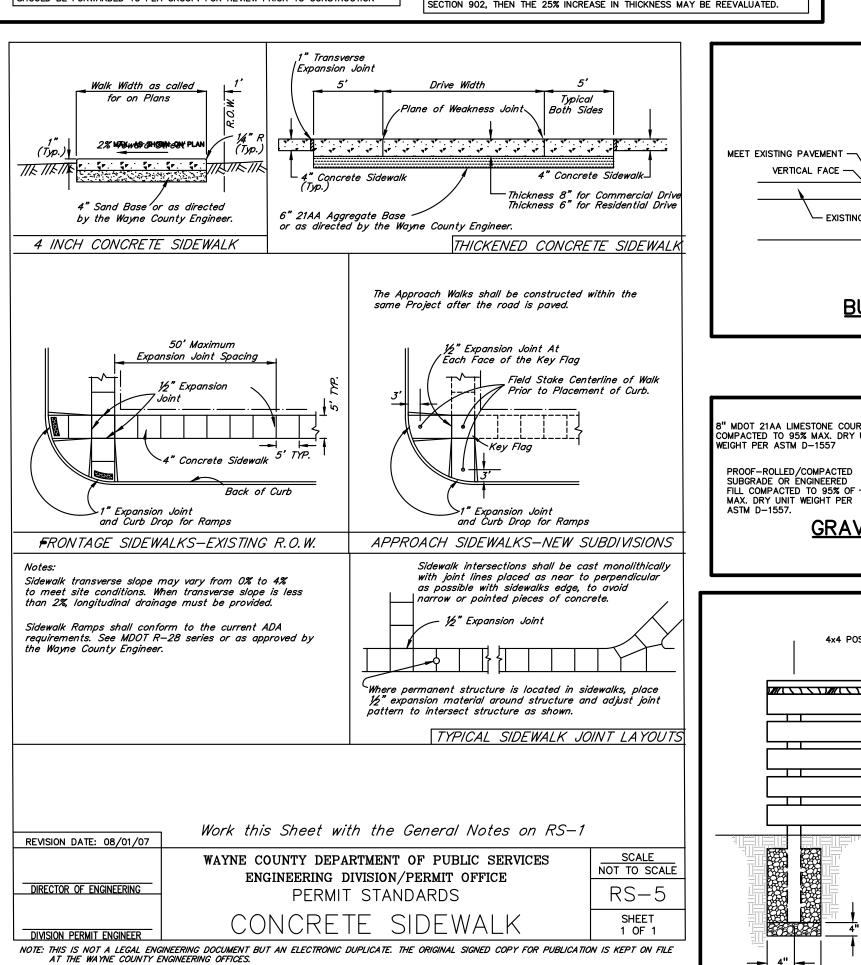
GRADING PLAN

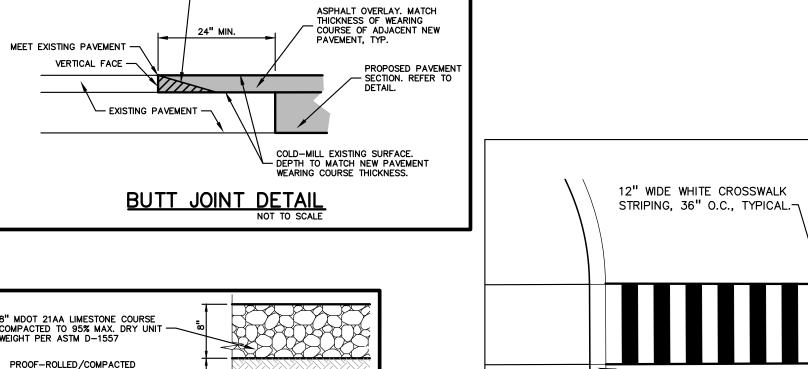
PEA JOB NO.

2022-0652 JMR DES. DRAWING NUMBER:





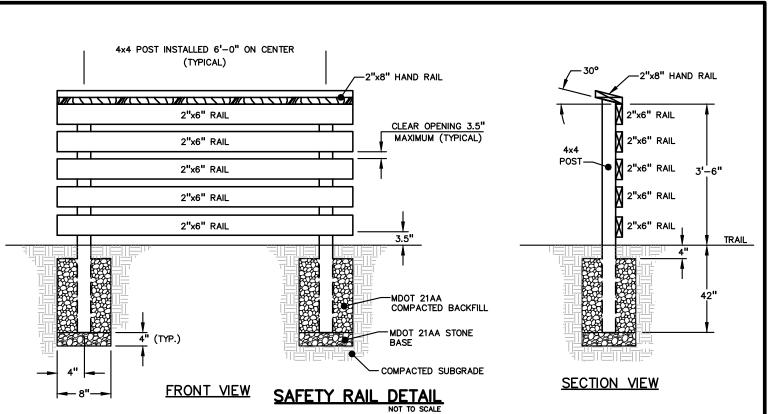


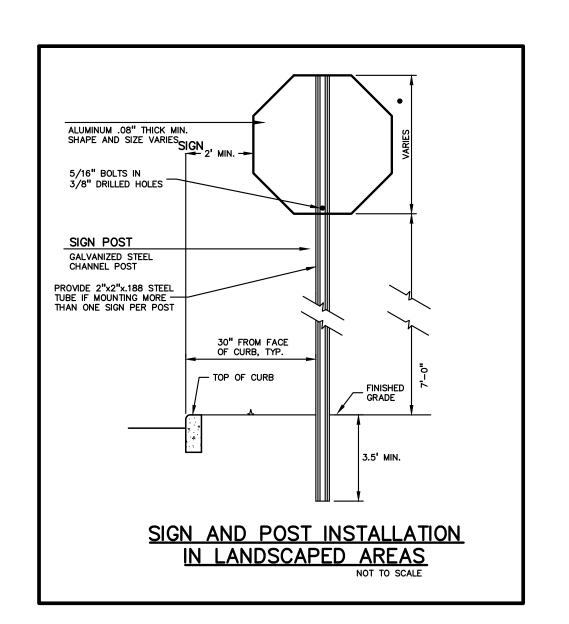


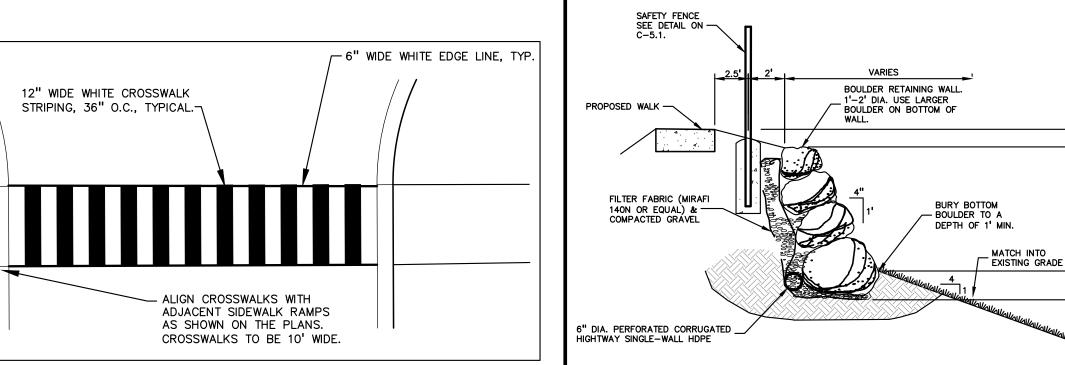
WEDGE WITH TEMPORARY
ASPHALT MIX AFTER MILLING.
REMOVE WEDGE BEFORE
OVERLAY OCCURS.

GRAVEL SECTION DETAIL

NOT TO SCALE

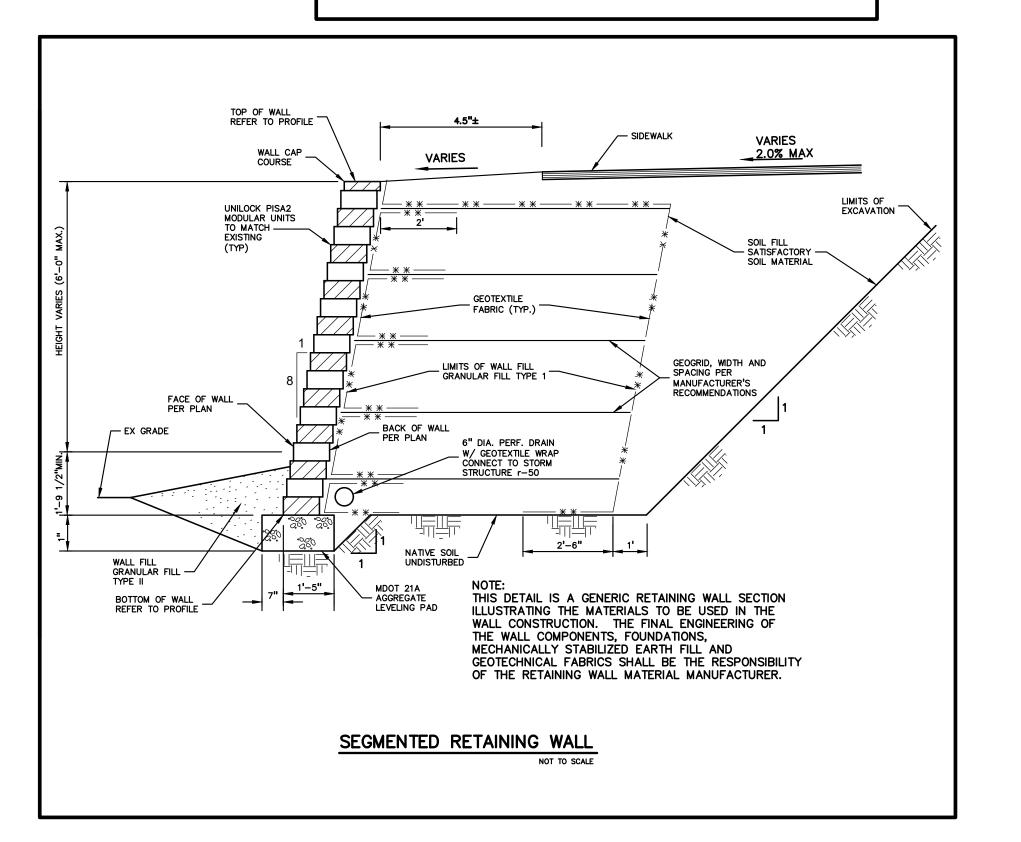


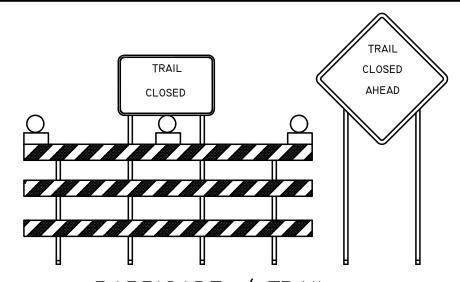




BOULDER RETAINING WALL DETAIL

THIS DETAIL IS A GENERIC RETAINING WALL SECTION ILLUSTRATING THE MATERIALS TO BE USED IN THE WALL CONSTRUCTION. THE FINAL ENGINEERING OF THE ALL COMPONENTS, FOUNDATIONS, MECHANICALLY STABILIZED EARTH FILL AND GEOTECHNICAL FABRICS SHALL BE THE RESPONSIBILITY OF THE RETAINING WALL MATERIAL MANUFACTURER.

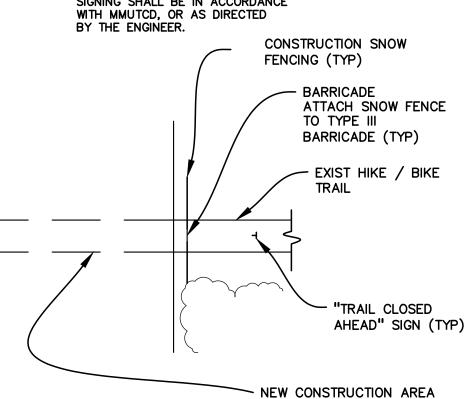




CLOSURE DÉTAIL SCALE: NOT TO SCALE

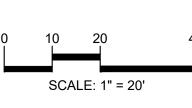
PLACE "TRAIL CLOSED" SIGNS / BARRICADES & ORANGE CONSTRUCTION "SNOW FENCE" TO COMPLETELY BLOCK TRAIL FROM PUBLIC ACCESS.

SIGNING SHALL BE IN ACCORDANCE WITH MMUTCD, OR AS DIRECTED



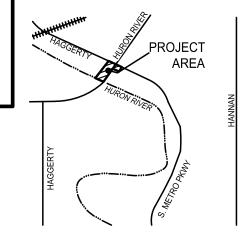
GROUP t: 844.813.2949 www.peagroup.com







CAUTION!! 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 EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT

HURON CLINTON METROPARKS 13000 HIGH RIDGE DRIVE BRIGHTON, MICHIGAN 48114

PROJECT TITLE

BELLEVILLE, MICHIGAN

HURON RIVER DRIVE SIDEWALK PART OF THE SOUTH 1/2 OF SECTION 24

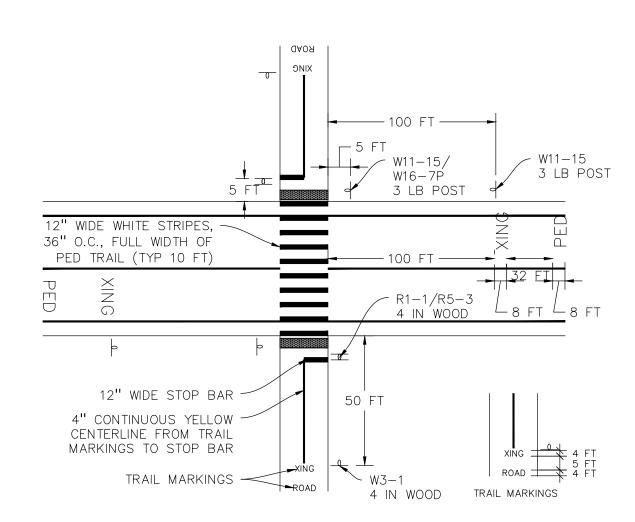
REVISIONS
-

ORIGINAL ISSUE DATE: AUGUST 30, 2021

DRAWING NUMBER:

DRAWING TITLE **DETAIL SHEET**

PEA JOB NO.	2021-0108
P.M.	JS
DN.	JMR
DES	JMR



HIKE-BIKE TRAIL CROSSING NOTES: 1. ROADWAY, PARKING LOT AND INFORMATIONAL SIGNS TO BE INSTALLED ON 3 LB STEEL POSTS UNLESS NOTED OTHERWISE. BOTTOM HEIGHT OF PARENT SIGN SHALL BE 6 FT MINIMUM MEASURED FROM SURFACE OF ROADWAY EDGE. EDGE OF SIGN SHALL BE 6 FT MINIMUM FROM EDGE OF PAVED ROADWAY. 2. HIKE-BIKE TRAIL SIGNS SHALL BE MOUNTED ON 4"X4" TREATED WOOD POSTS. THE TOP OF THE POST SHALL BE CHAMFERED AT 45 DEGREES. BOTTOM HEIGHT OF PARENT SIGN SHALL BE 4 FT MINIMUM (5 FT MAXIMUM) MEASURED FROM SURFACE OF TRAIL EDGE. EDGE OF SIGN SHALL BE 3 FT MINIMUM (5 FT MAXIMUM) FROM EDGE

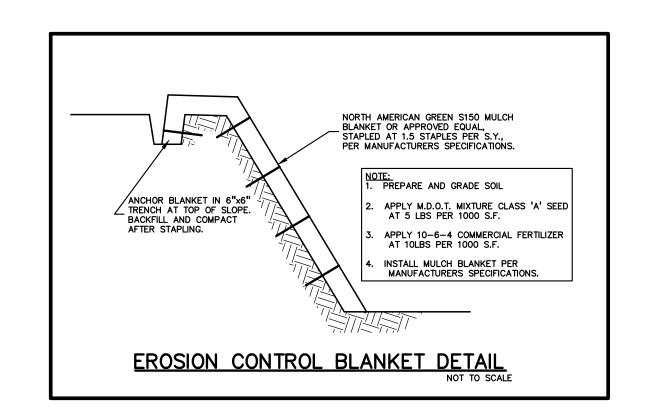
3. ALL PERMANENT SIGNS SHALL BE PER MDOT 919, TYPE III (0.080 ALUMINUM SHEET) UNLESS OTHERWISE NOTED . ALL PAVEMENT MARKINGS SHALL BE WATERBORNE, PER MDOT SECTION 811. 5. PAVEMENT MARKINGS SHALL BE REFLECTIVE,

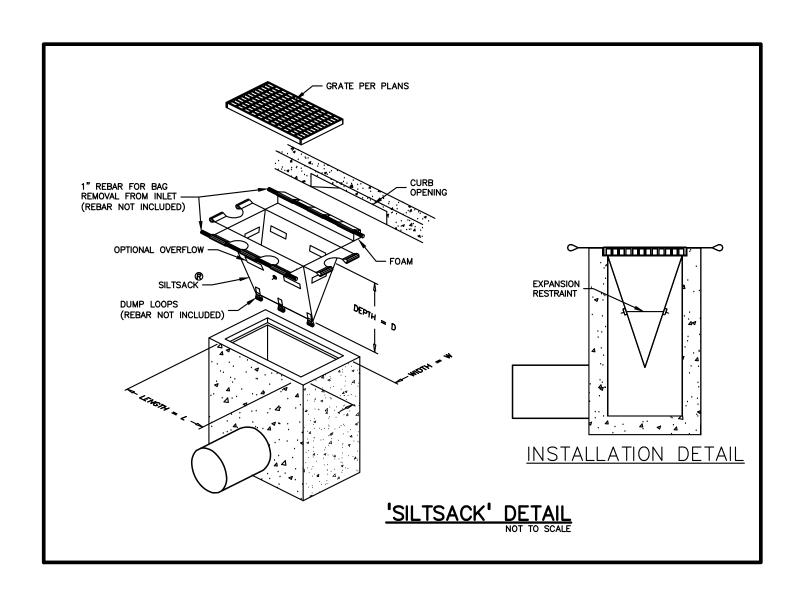
6. HIKE-BIKE TRAIL STOP BARS TO BE 12" WIDE, INSTALLED IN CONJUNCTION WITH NEW STOP SIGNS. SHTG MATL DESCRIPTION ASTM TYPE IV STOP SIGN

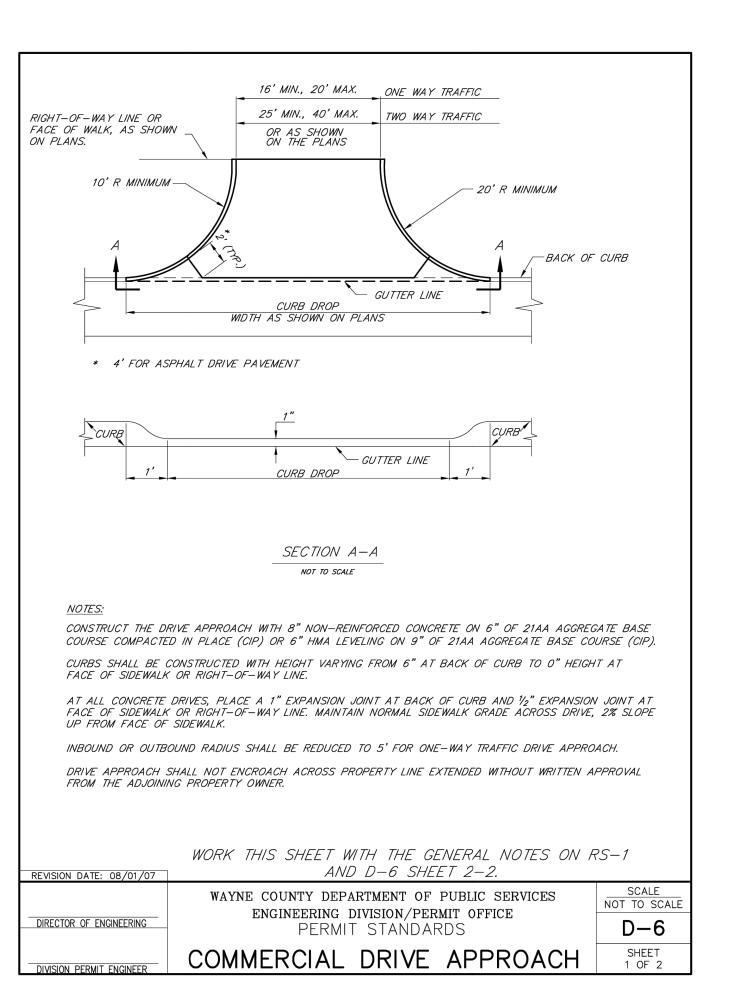
R5-3 (24'')ASTM TYPE IV NO MOTOR VEHICLES W3-1 (18") ASTM TYPE IX STOP AHEAD W11-15 (30") ASTM TYPE IX COMBINATION BIKE AND PEDESTRIAN CROSSING (YELLOW-GREEN) W16-7P (24"X12") ASTM TYPE IX ARROW (YELLOW-GREEN)

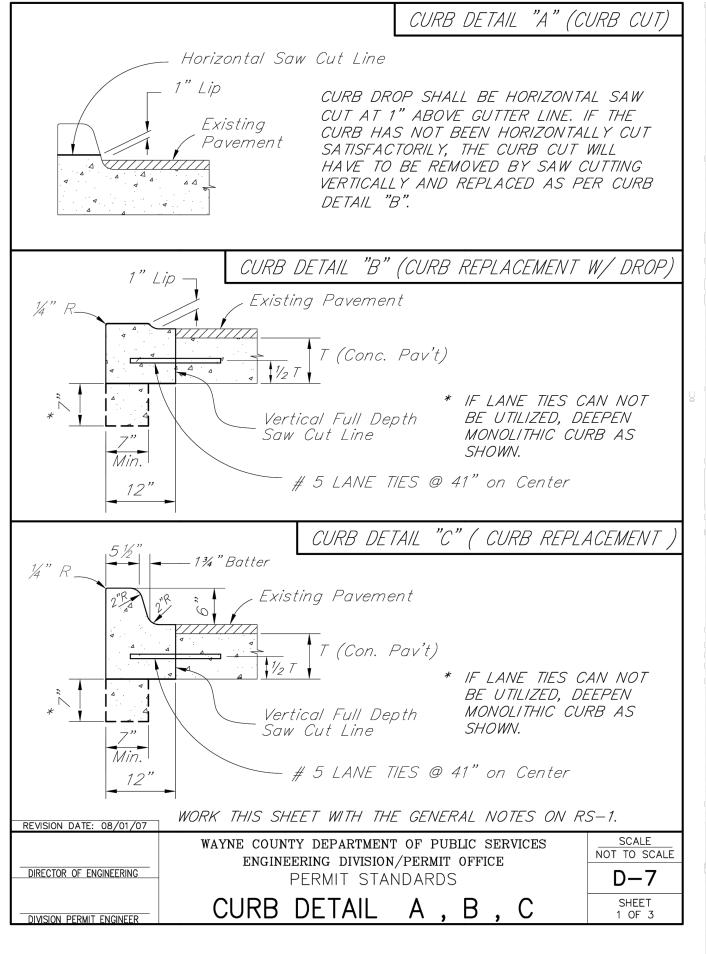
TYPICAL HIKE-BIKE TRAIL CROSSING

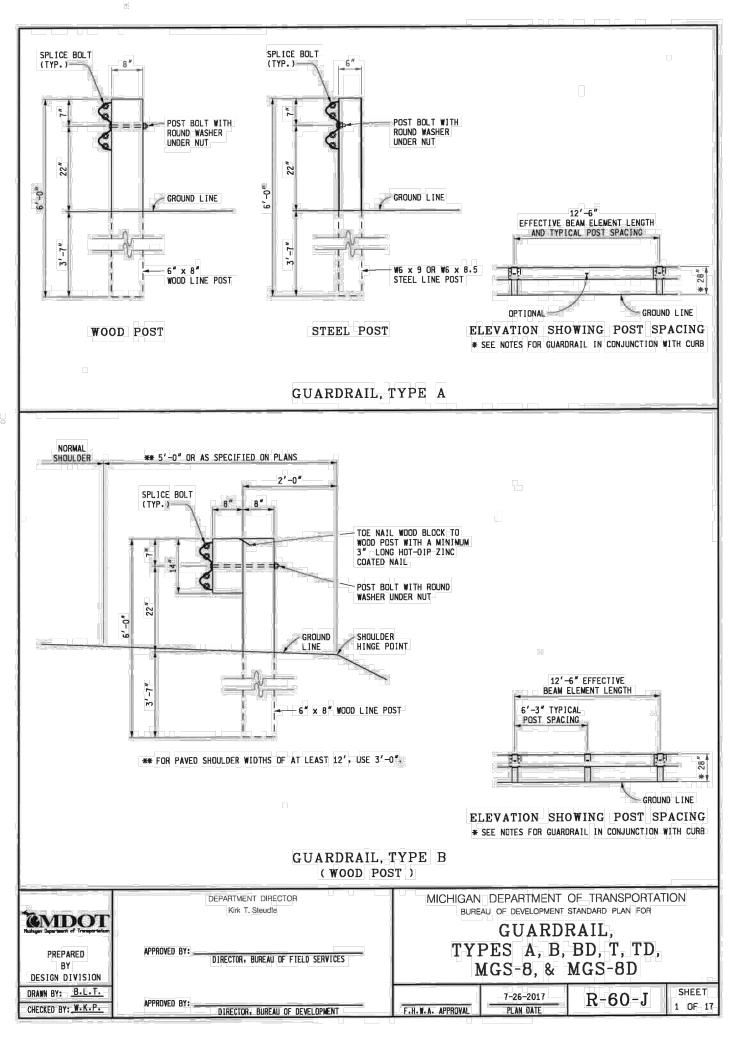
NOTE: PAYMENT FOR TYPICAL HIKE-BIKE TRAIL CROSSING SIGNS AND PAVEMENT MARKINGS WILL BE INCLUDED IN THE LUMP SUM PRICE FOR "SIGNS, PERMANENT, COMPLETE" AND "PAVT MRKG, WATERBORNE, HIKE BIKE TRAIL"

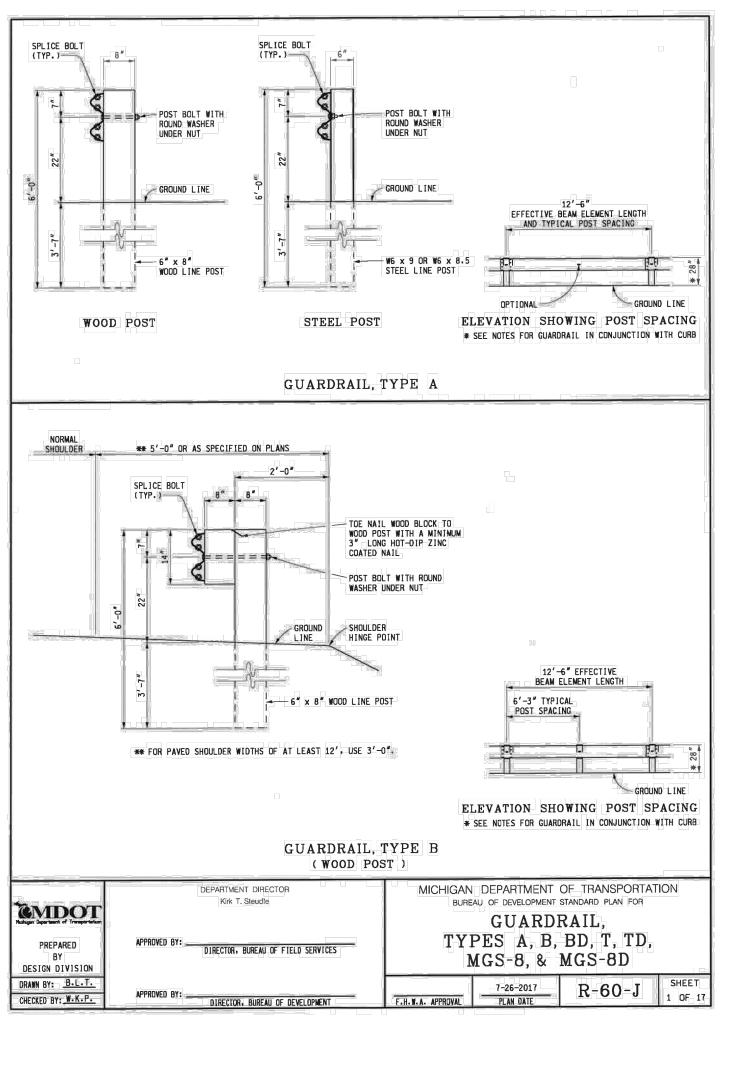


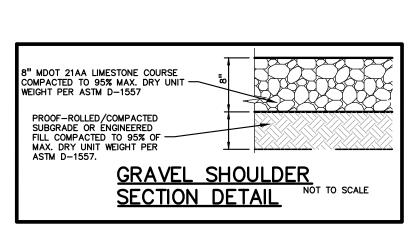


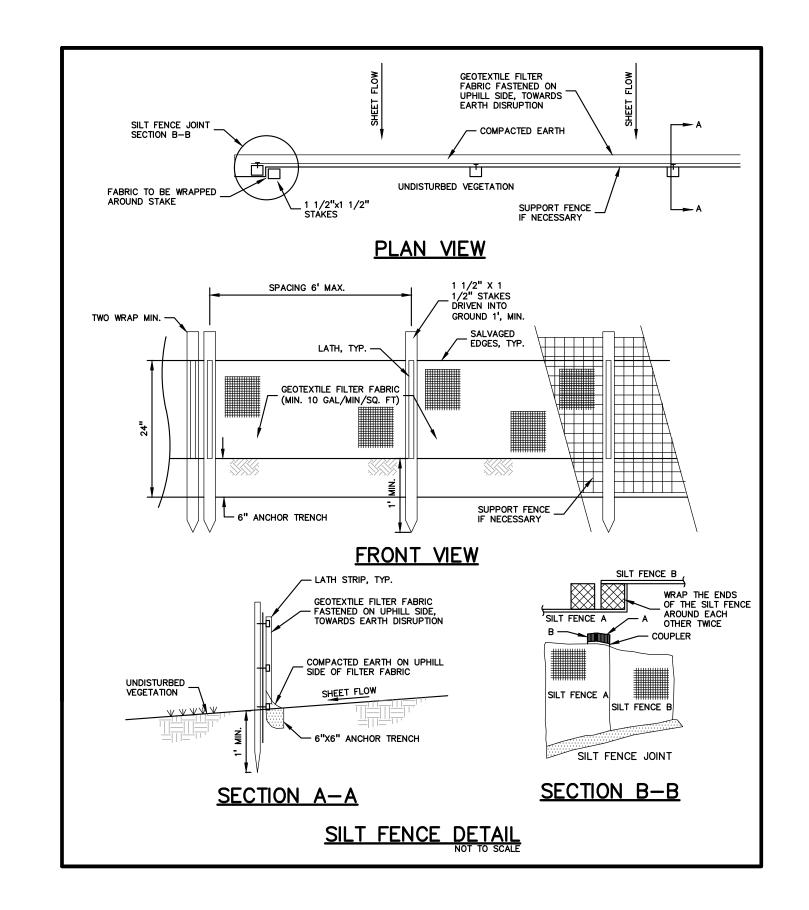


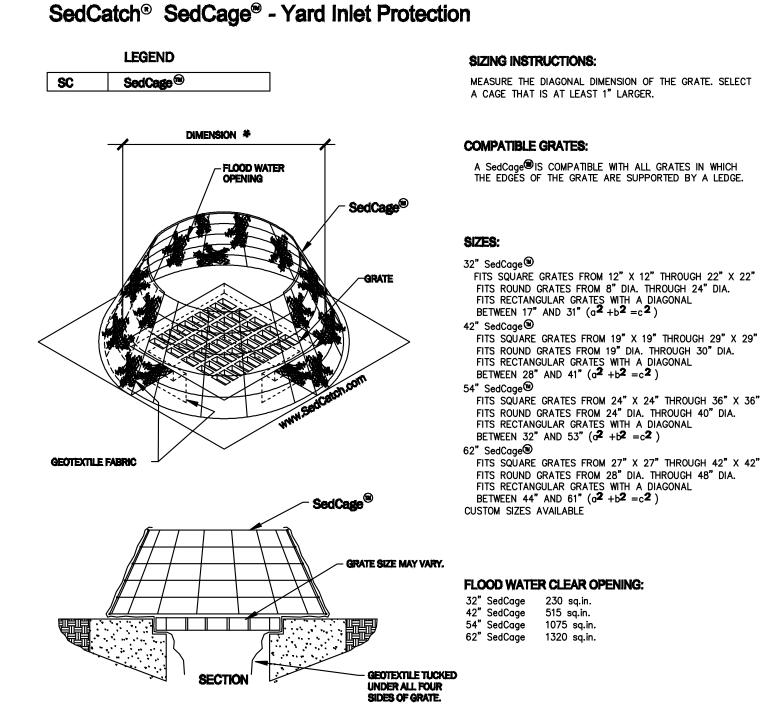












PATENT D 620,999, OTHER PATENTS PENDING	SedCatch® Environmental Production www.sedCatch.com

1. INLET PROTECTION SHALL BE INSTALLED AT THE TIME THE STRUCTURE IS SET. 2. TO INSTALL; TUCK FABRIC UNDER GRATE.

2. TO INSTALE; TOCK FABRIC UNDER GRATE.

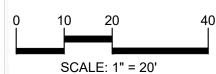
3. REMOVE SEDIMENT IF IT ACCUMULATES TO ONE HALF THE HEIGHT OF THE SEDCAGE

4. THE AREA AROUND THE SEDCAGE SHOULD BE AS FLAT AS POSSIBLE TO INCREASE EFFECTIVENESS AND REDUCE MAINTENANCE REQUIREMENTS. MAINTENANCE REQUIREMENTS.

5. AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER COULD RISE IF THE INLET WERE BLOCKED ENTIRELY.
DO NOT INSTALL IN LOCATIONS THAT COULD CAUSE PROPERTY DAMAGE OR POSE A SAFETY HAZARD TO TRAFFIC.

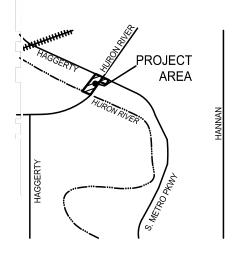








:AUTION!! IE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND ILLITIES AS SHOWN ON THIS DRAWING ARE ONLY PROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. IE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR STERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS FOR TO THE START OF CONSTRUCTION.



HURON CLINTON METROPARKS 13000 HIGH RIDGE DRIVE BRIGHTON, MICHIGAN 48114

PROJECT TITLE

HURON RIVER DRIVE SIDEWALK PART OF THE SOUTH 1/2 OF SECTION 24 BELLEVILLE, MICHIGAN

REVISIONS	
-	-

ORIGINAL ISSUE DATE: AUGUST 30, 2021 DRAWING TITLE

DETAIL SHEET

2021-0108 PEA JOB NO. JMR DES. JMR

DRAWING NUMBER:

TRAFFIC SIGNAL HEAD SYMBOLS



12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)



BAGGED OR COVERED 12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)



12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY) WITH SPECIAL TURNING MOVEMENT (LEFT TURN SHOWN)



12" L.E.D. VEHICLE TRAFFIC SIGNAL (TWO WAY: BACK TO BACK)



12" L.E.D. VEHICLE TRAFFIC SIGNAL (THREE WAY)



12" L.E.D. VEHICLE TRAFFIC SIGNAL (FOUR WAY)



12" L.E.D. PROGRAMMABLE VEHICLE TRAFFIC SIGNAL (ONE WAY)

PEDESTRIAN RELATED SYMBOLS

12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (ONE WAY)



12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (TWO WAY: AT ANGLE TO EACH OTHER)



PEDESTRIAN PUSHBUTTON

IN GROUND TRAFFIC SIGNAL EQUIPMENT

- (TS) 30 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- 36 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- TS OTHER TRAFFIC SIGNAL HANDHOLE
- ALUMINUM PEDESTRIAN PEDESTAL
- ANCHOR BASE STEEL STRAIN POLE AND FOUNDATION (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- MAST ARM POLE (SIZE AS CALLED FOR ON PLAN SHEET)

TRAFFIC CONTROLLER SYMBOLS

BASE MOUNTED TRAFFIC CONTROLLER



GLOBAL POSITIONING SYSTEM (GPS) MODULE

CASE SIGN SYMBOLS

CASE SIGN (1 WAY OR 2 WAY)

CASE SIGN (3 WAY OR 4 WAY)

VEHICLE DETECTION SYMBOLS

VEHICLE DETECTION CAMERA



OMNI-DIRECTIONAL ANTENNA



RADIO RECEIVER FOR WIRELESS VEHICLE DETECTION



UNI-DIRECTIONAL ANTENNA



WIRELESS VEHICLE DETECTION SENSOR



TRAFFIC VEHICLE DETECTION LOOP



OPTICOM PRE-EMPTION

MISCELLANEOUS (PLAN VIEW)



ROAD SIGN WITH FLASHING SIGN OPTICAL (ONE WAY)



SIDEWALK TURNING SPACE, PROPOSED. (2% MAX GRADE WITH 2% MAX CROSS SLOPE)



A.D.A DETECTABLE WARNING SURFACE

PUSHBUTTON LANDING, PROPOSED.
(2% MAX GRADE WITH 2% MAX CROSS SLOPE)
POSITION WITH SIDEWALK DIRECTION

RAILROAD SYMBOLS



RAILROAD CONTROL BOX



RAIL ROAD SIGNAL ON POLE



RAIL ROAD SIGNAL ON CANTILEVER

CABLE DIAGRAM SYMBOLS



COILED UP WIRE (FOR CONNECTION BY OTHERS)



STAINLESS STEEL SERVICE DISCONNECT



METERED ELECTRIC SERVICE



ELECTRIC GROUND



SIGNAL HEAD



ILLUMINATED CASE SIGN

ELECTRICAL LINE STYLES

——— E-OH ————— CABLE, OVERHEAD ——«————— CABLE, DIRECT BURIAL CABLE, TWISTED PAIR

CABLE, EXISTING TO BE ABANDONED

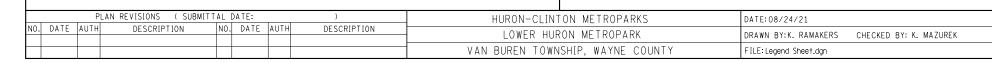
- E - I - CONDUIT, EXISTING TO BE ABANDONED

CONDUIT, EXISTING, UNDER GROUND

CONDUIT, EXISTING, SUSPENDED CONDUIT, PROPOSED, DIRECT BURIAL

CONDUIT, PROPOSED, ENCASED CONDUIT, PROPOSED, DIRECTIONAL BORED

CONDUIT, IN BRIDGE





	TRAFFIC SIGNAL LEGEND SHEET	DRAWING	SHEE
NO SCALE	HAGGERTY ROAD AND HURON RIVER DRIVE	SIGNAL	SECT
	VAN BUREN TOWNSHIP, WAYNE COUNTY	001	





GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with MCL 460.171 et seq, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

SIGNALS

PREVIOUS GENERAL NOTES

Some notes previously included in "General Notes" are now located within the Frequently Used Special Provision titled "Traffic Signal Work - Construction Methods".

MAINTAINING AGENCY CONTACT INFORMATION

• Wayne County Department of Public Services: (734-955-2346)

NOTIFICATIONS TO MAINTAINING AGENCIES

Contact Wayne County Department of Public Services seven working days prior to start of construction and seven working days prior to signal activation.

CABINET SET UP AND CONTROLLER TIMING

Contractor shall deliver where required to the appropriate maintaining agency, the T.S. Cabinet and Controller for set up and timing. Contractor shall pick-up cabinet from the appropriate maintaining agency when ready for installation.

FACILITIES NOT ON PLANS

Existing O.H. & T.S. facilities are not necessarily shown on plans.

CONTINUOUS TRAFFIC SIGNAL OPERATION

Proposed T.S. shall be put into operation at time of removal of existing T.S. facilities, contractor shall notify Wayne County Department of Public Services if unable to maintain T.S. in an operable condition at all times.

UNDERGROUND UTILITY SEPARATION

A minimum clearance of 3'-6" horizontal & 1'-0" vertical must be maintained between proposed facilities & existing U.G. water facilities.

SIGNAL EQUIPMENT DISPOSAL

Disposal of all traffic signal equipment is included in the removal pay items and shall also include the following:

- Notification to Wayne County Department of Public Services that traffic signal equipment is being removed.
- Temporary storage of equipment in a dumpster on site (or as directed by the Engineer) allowing Wayne County Department of Public Services 48 hours to salvage any equipment.
- Proper disposal of any equipment containing environmentally sensitive materials (mercury relay switches for example)
- Disabling or destruction of all remaining equipment to the satisfaction of the engineer such that it cannot be reused or resold.
- Proper disposal of all remaining equipment.

PLAN DEVIATIONS DURING CONSTRUCTION

No changes from plans in location of supporting structures signal head placement or traffic signal equipment will be allowed without prior approval of the Wayne County Department of Public Services (734-955-2346).

POLE BAND CLAMP ACCEPTANCE

The current basis of acceptance for this material is now part of the QPL (Qualified Product List). This can be found in the materials Acceptance Requirements Table, published in the MQAP and repeated for convenience in the Materials Source Guide.

INNERDUCT

Contractor must install a continuous flexible non-metallic tubing (innerduct) for low voltage communication type cable from the device to the controller cabinet. Innerduct is not required if communication cable is 600V rated.

SIGNAL HEAD LANDING POINT

Ensure each traffic signal head assembly has its own landing point with all neutrals connected together with a metal type jumper.

ENVIRONMENTAL

PROTECTED TURTLES

Historical records for protected turtles exist within or near this project. These turtle species warrant special consideration as they are rare in Michigan. In the event turtles are observed within the construction zone, move the turtle(s) into adjacent vegetative cover, away from physical work activities. If possible, please take a photo and immediately contact the Engineer.

MAINTENANCE OF TRAFFIC

TRAFFIC CONTROL

Contractor shall be responsible for all necessary construction staging and traffic control devices required for constructing the plans as shown, and will not be paid for separately.

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on the plans, they are to be constructed according to the standard plan listed below opposite each item unless otherwise indicated.

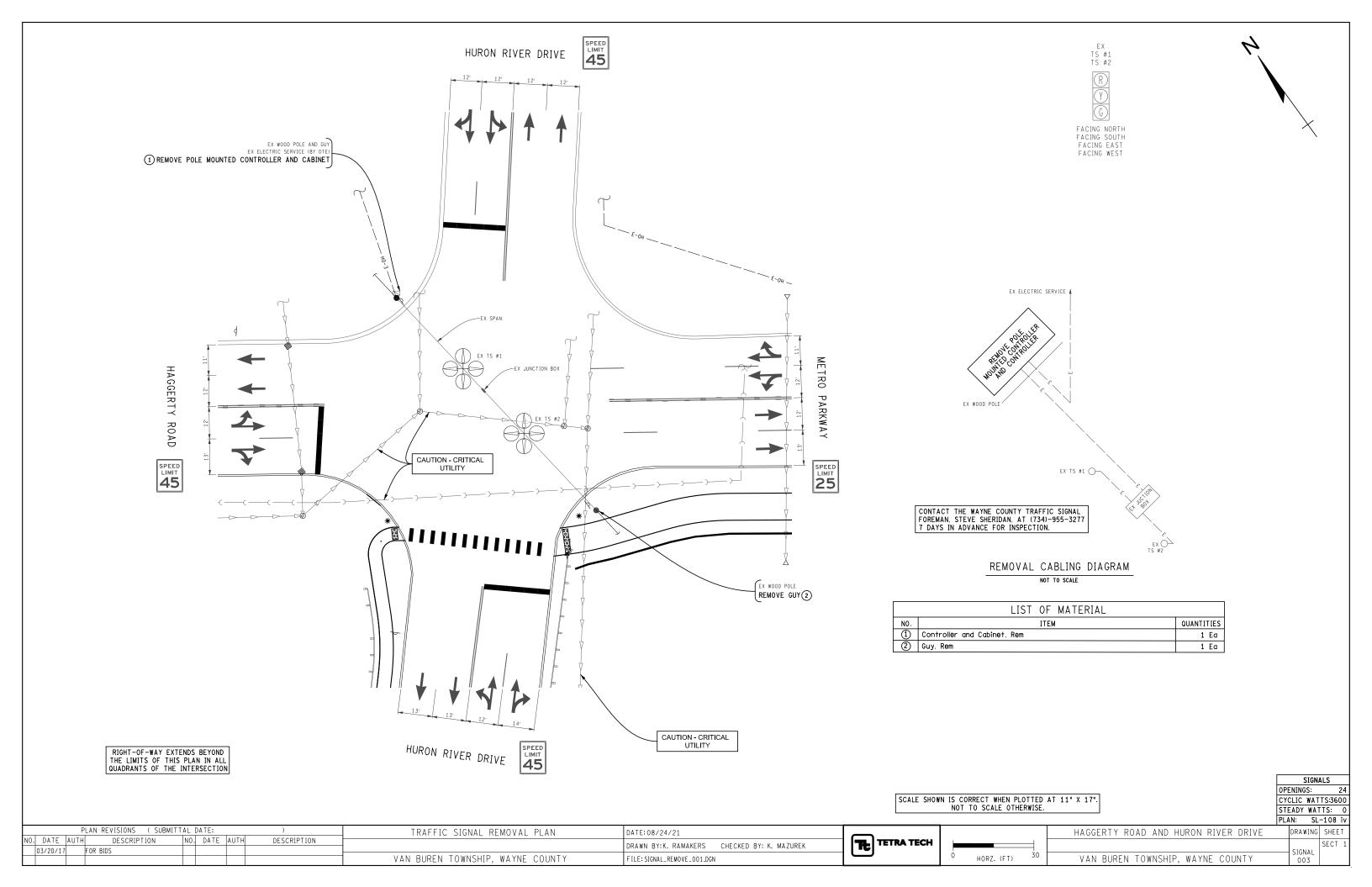
Title	Plan No.
STATEWIDE TRAFFIC SIGNALS	
WOOD POLE GUYS AND SETTING DEPTH	SIG-050-A *
CONTROLLER CABINET MOUNTED ON STEEL OR WOOD POLES	SIG-100-A *
POLE MOUNTED TS CONTROLLER CABINET	SIG-111-A *
GLOBAL POSITIONING SYSTEM (GPS) MODULE	SIG-120-A *
HANDHOLE- PRECAST, POLYMER CONCRETE	SIG-240-A *
CONDUIT (DIRECT BURIAL/ENCASED)	SIG-250-A *
PEDESTAL MOUNTED SIGNAL DISPLAYS	SIG-330-A *
PEDESTRIAN PUSH BUTTON DETAILS	SIG-400-A *
WAYNE COUNTY TRAFFIC SIGNALS	
COLOR CODE WIRING / EQUIPMENT GROUNDING	WC-026-A *
COLOR CODE FOR WIRING CONNECTING SIGNAL LAMPS	WC-026-B *
PEDESTAL FOUNDATION & SIGNAL MOUNTING DETAILS	WC-028-B *
TYPICAL POLE MTD PEDESTRIAN SIGNALS	WC-029-C *

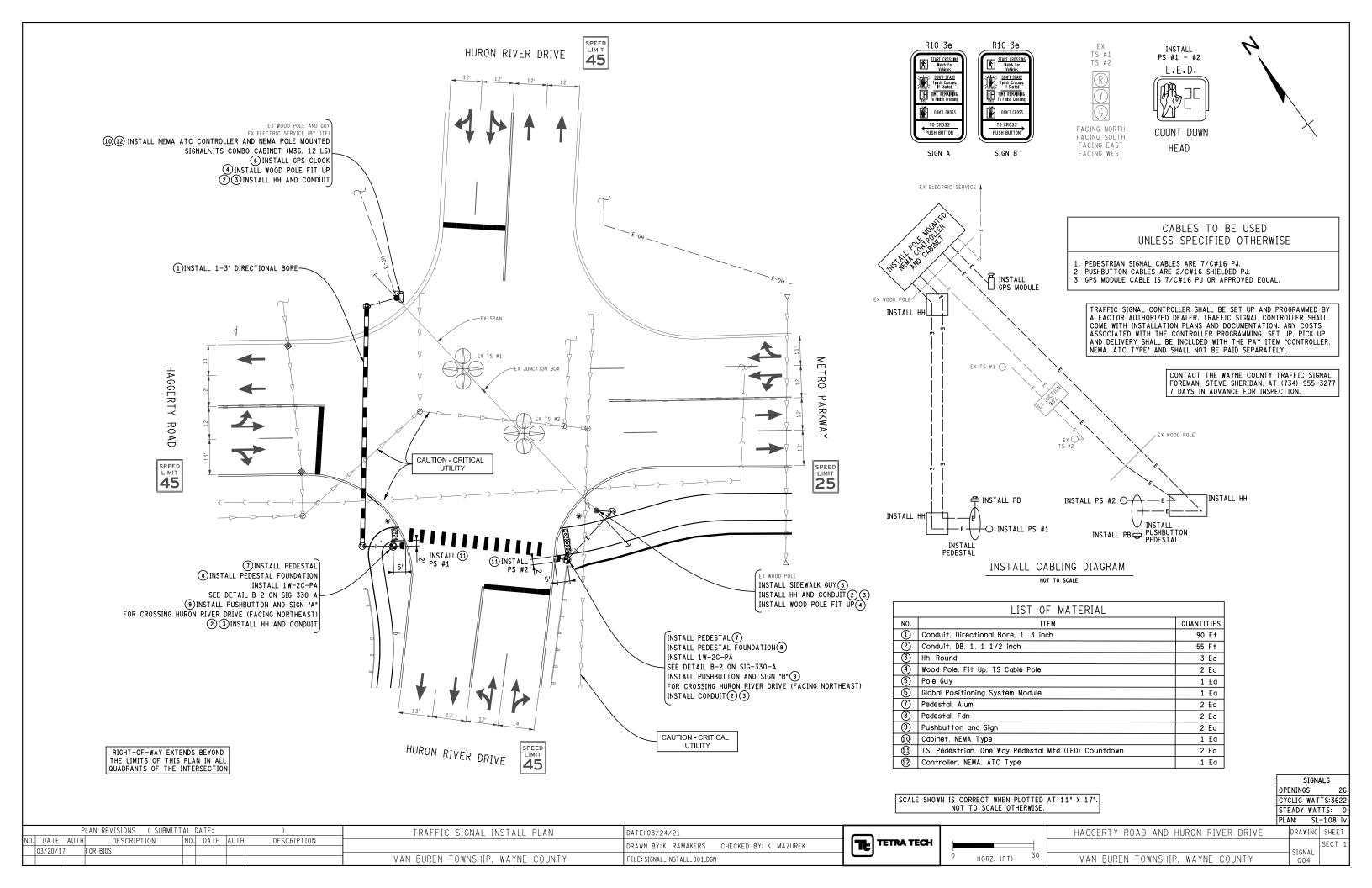
^{*} Denotes Special Detail

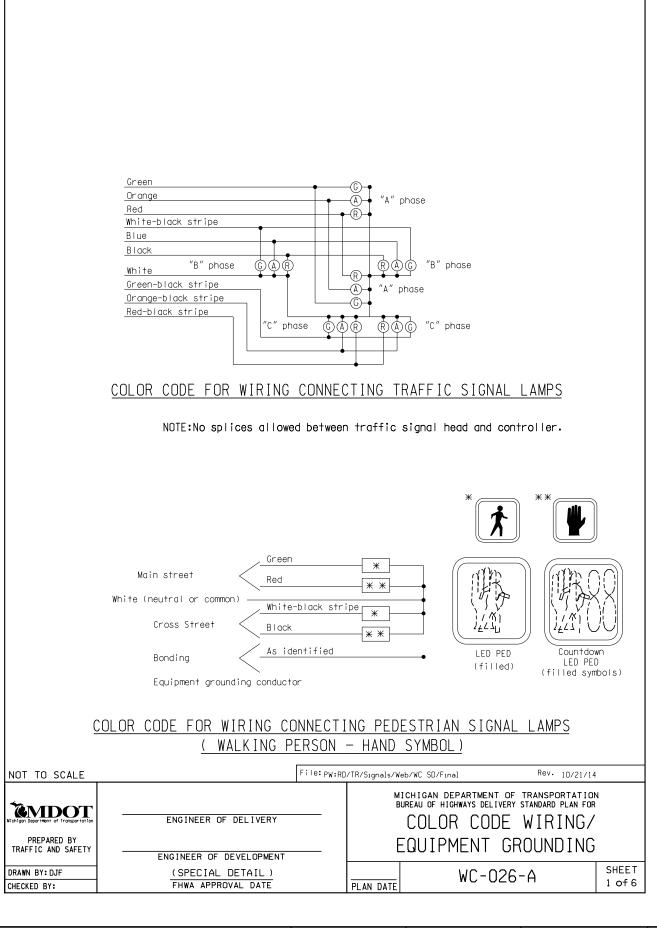
SHEET INDEX

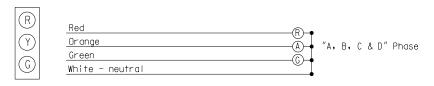
Section 1 - Road Plans	
Title Sheet	1
General Notes	2
Signal Removal Plan	3
Signal Install Plan	4
Standard Details	5 - 25

	F	FINAL ROW PLAN REVISIONS (SUBMITTA	L DATE:)					DATE: 08/16/21	NOTE SHEET	DRAWING	SHEET
NO.	DATE AUTH	DESCRIPTION	NO.	DATE A	UTH	DESCRIPTION	TE TETRA TECH	NO SC	ALE		DESIGNED BY: K. RAMAKERS:	HAGGERTY ROAD AND HURON RIVER DRIVE	NOTE	SECT 1
										FILE: Note_Sheet 2012.doc	CHECKED BY: K. MAZUREK	VAM BUREN TOWNSHIP, WAYNE COUNTY	002	

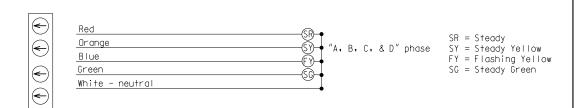




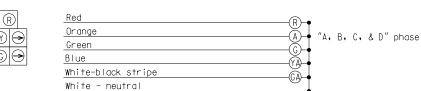




STANDARD - 3 COLOR SIGNAL DISPLAY



FLASHING YELLOW ARROW (FYA) - 4 COLOR SIGNAL DISPLAY



R = Red Ball
A = Yellow Ball
G = Green Ball
YA = Yellow Arrow
GA = Green Arrow

DOG HOUSE W/RIGHT TURNS - 5 COLOR SIGNAL DISPLAY

COLOR CODE FOR WIRING CONNECTING TRAFFIC SIGNAL LAMPS

NOT TO SCALE

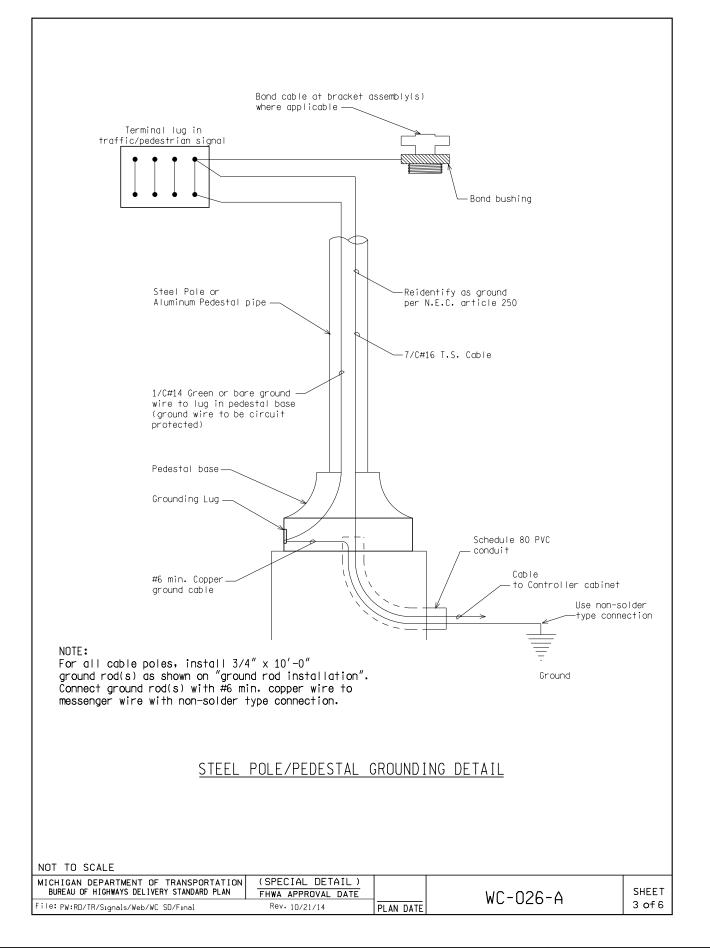
MICHIGAN DEPARTMENT OF TRANSPORTATION SUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FHWA APPROVAL DATE

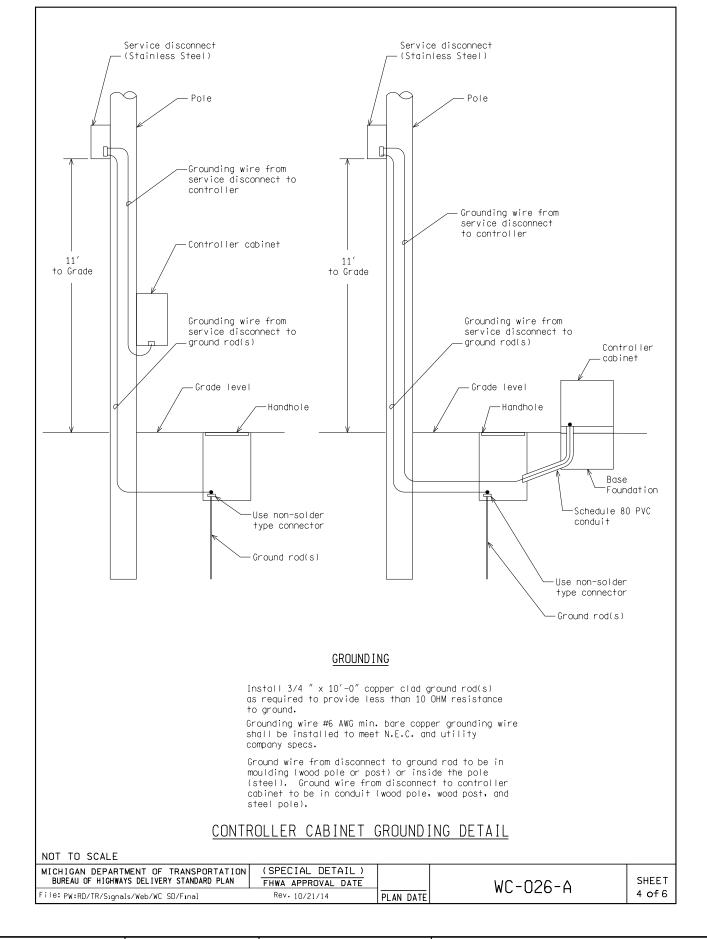
File: PW:RD/TR/Signals/Web/WC SD/Final Rev. 10/21/14

WC-026-A

SHEET 2 of 6

	AS-LET PLAN REVISIONS	*		DATE:	CS:	DRAWING	SHEET
NO. D	ATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	EMDOT		DESIGN UNIT:	INI		
		Michigan Department of Transportation	FILE:	TSC:	JIN.		

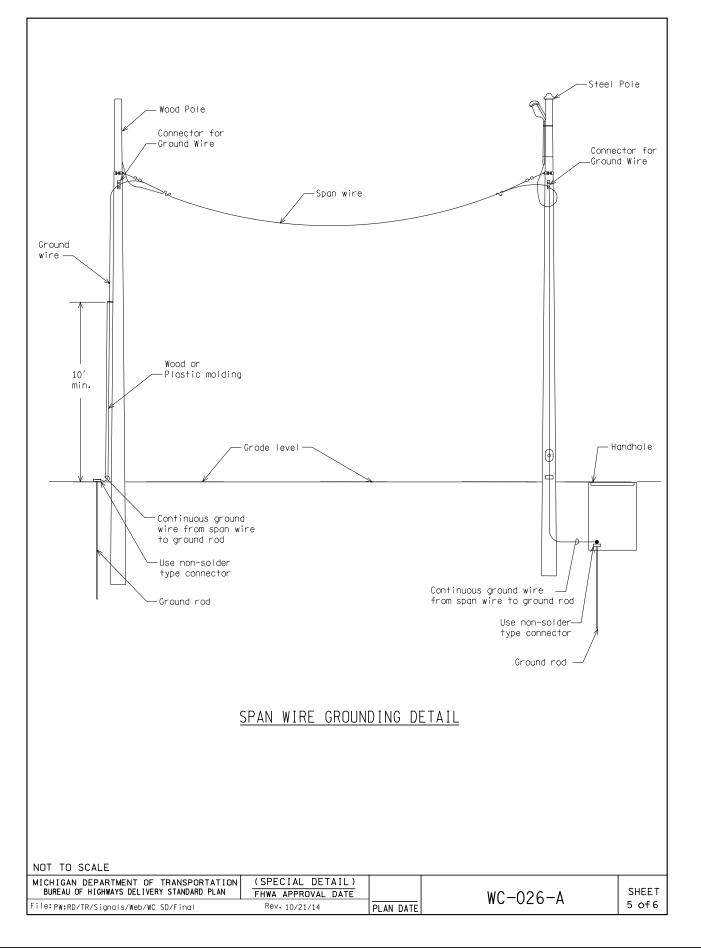


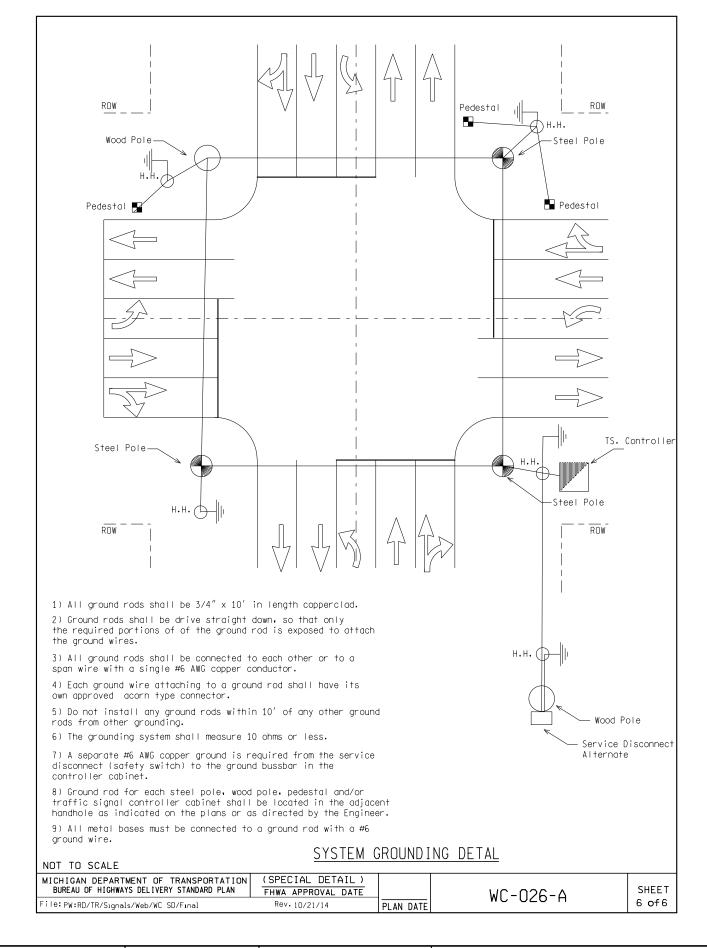


			AS-LET	PLAN	REVISIONS		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI		
FILE:	TSC:	JIN.		





			AS-LET	PLAN	REVISIONS		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



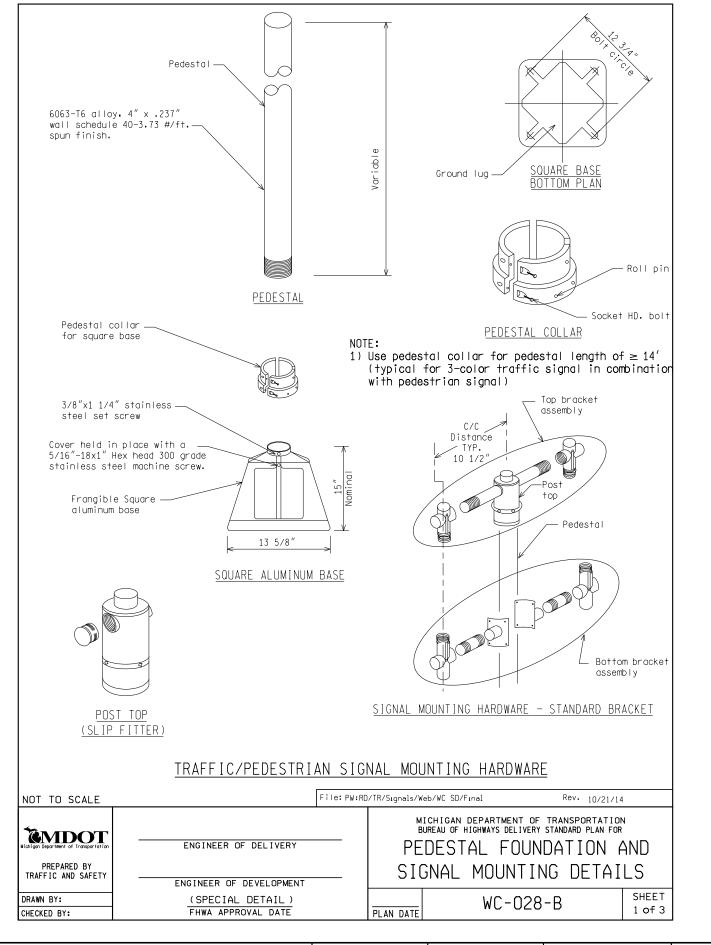
	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	JN:		
FILE:	TSC:	JIN.		

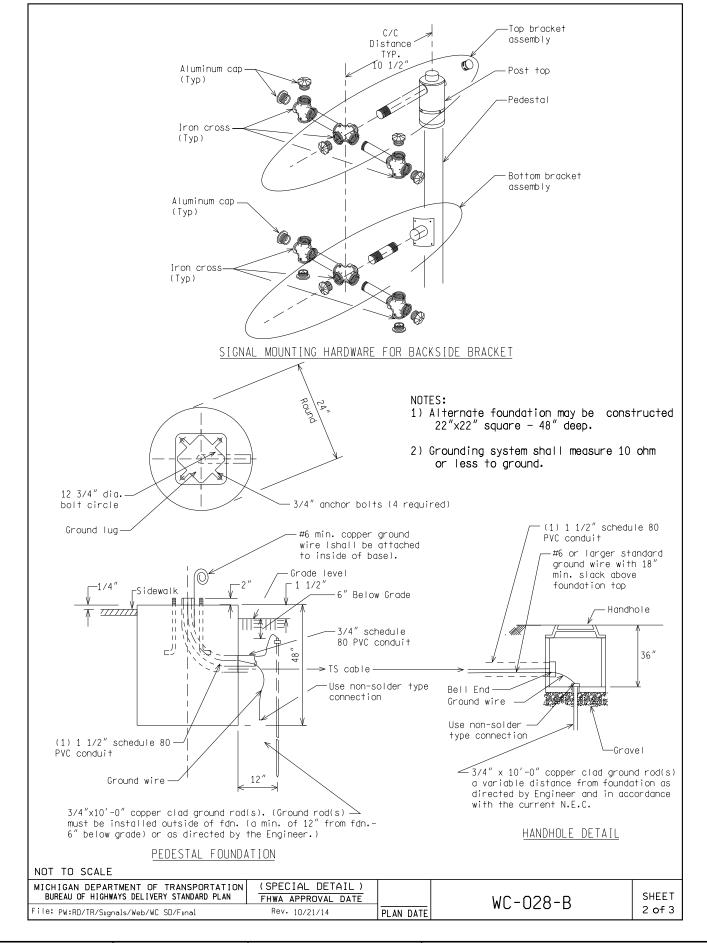
CONDUCTOR COLOR	7/C	12/C	16/C	20/C
GREEN	A Ø GREEN	A Ø GREEN	A Ø GREEN	A Ø GR
ORANGE	A Ø YELLOW	A Ø YELLOW	A Ø YELLOW	A Ø YE
RED	A Ø RED	A Ø RED	A Ø RED	A Ø REI
WHITE W/ BLACK TRACER	B Ø GREEN	B Ø GREEN	B Ø GREEN	B Ø GR
BLUE	B Ø YELLOW	B Ø YELLOW	B Ø YELLOW	B Ø YE
BLACK	B Ø RED	B Ø RED	B Ø RED	B Ø RE
WHITE	COMMON	COMMON	COMMON	COMMON
GREEN W/ BLACK TRACER		C Ø GREEN	C Ø GREEN	C Ø GR
ORANGE W/ BLACK TRACER		C Ø YELLOW	C Ø YELLOW	C Ø YE
RED W/ BLACK TRACER		C Ø RED	C Ø RED	C Ø RE
BLUE W/ BLACK TRACER		CASE SIGN	CASE SIGN	CASE SI
		COMMON	COMMON	COMMON
BLACK W/ WHITE TRACER		CASE SIGN	CASE SIGN	CASE SI
GREEN W/ WHITE TRACER			W - 1	W - 1
RED W/ WHITE TRACER			DW-1	DW-1
BLUE W/ WHITE TRACER			W-2	W-2
BLACK W/ RED TRACER			DW-2	DW-2
WHITE W/ RED TRACER				D Ø GR
ORANGE W/ RED TRACER				D Ø YE
BLUE W/ RED TRACER				D Ø RE
RED W/GREEN TRACER				FLASHIN
RED W/GREEN TRACER WHEN USING CABLES FOR PEDE AND USE WHITE W/ BLACK				FLASHIN _K AND D

File: pw:RD/TR/Signals/Web/WC SD/Final NOT TO SCALE Rev. 10/21/14 MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR EMDOT
Wichigan Department of Transportation COLOR CODE FOR WIRING ENGINEER OF DELIVERY PREPARED BY TRAFFIC AND SAFETY CONNECTING SIGNAL LAMPS ENGINEER OF DEVELOPMENT SHEET 1 of 1 DRAWN BY: WC-026-B FHWA APPROVAL DATE CHECKED BY: PLAN DATE

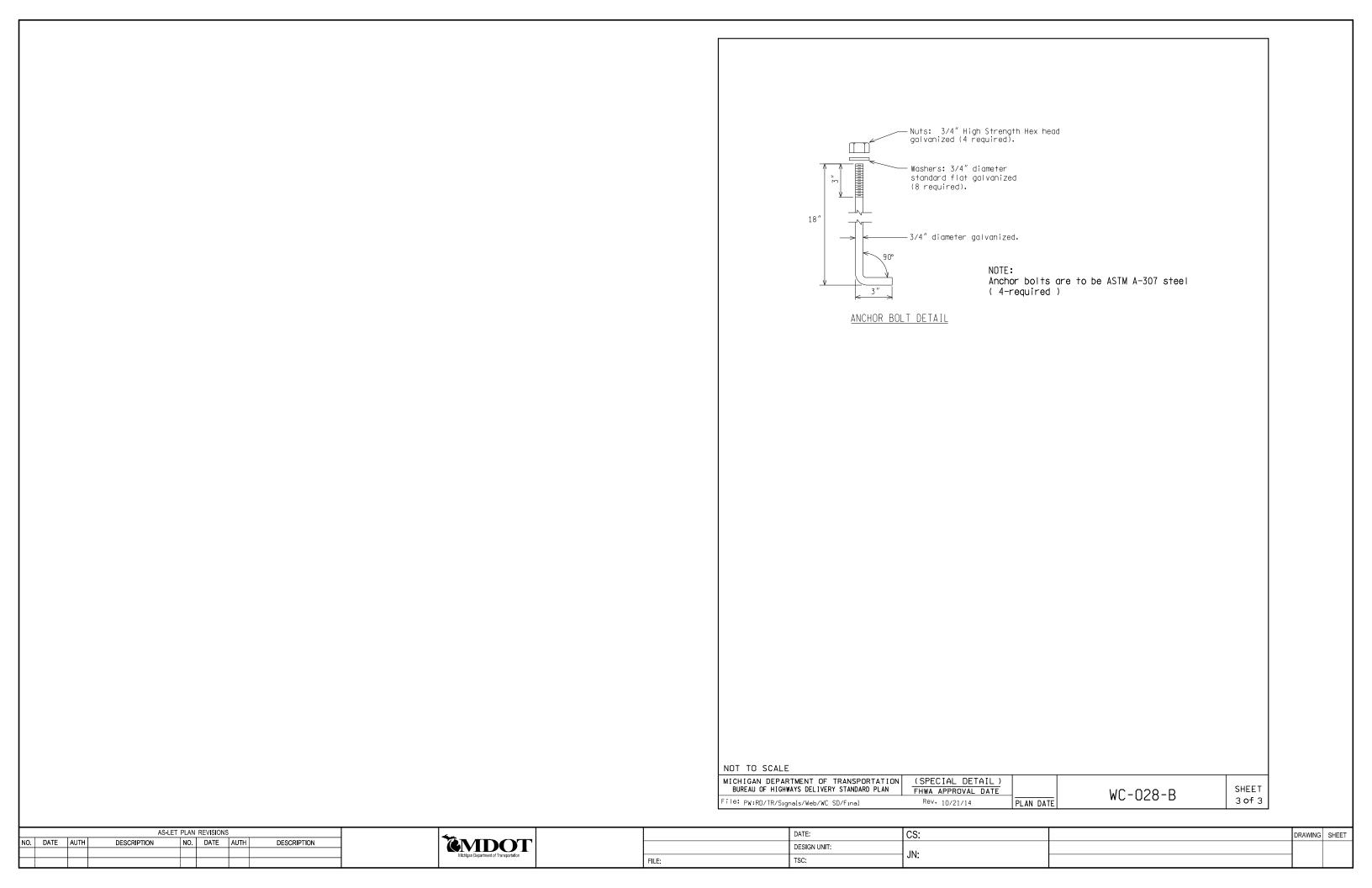
				AS-	LET PLAN	REVISION	IS		4-		DATE:	CS:
NO.	D/	ATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	EMDOT		DESIGN UNIT:	
							+ +		Michigan Department of Transportation	FILE:	TSC:	JN:

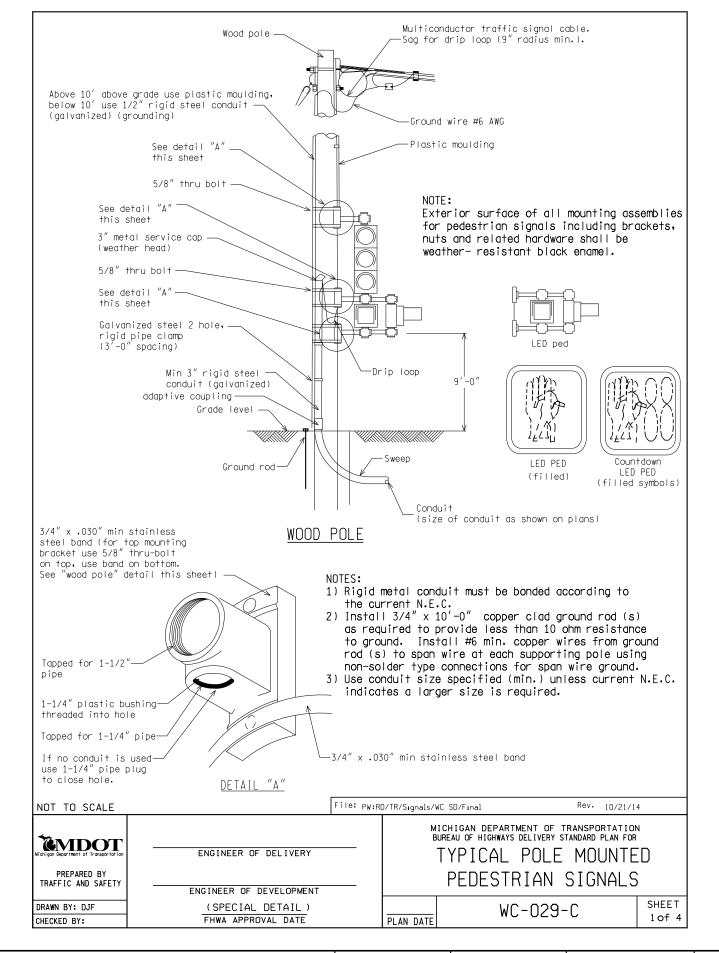
DATE:	CS:	DRAWING	SHEET
DESIGN UNIT:	JN:		
TSC:	JIN:		

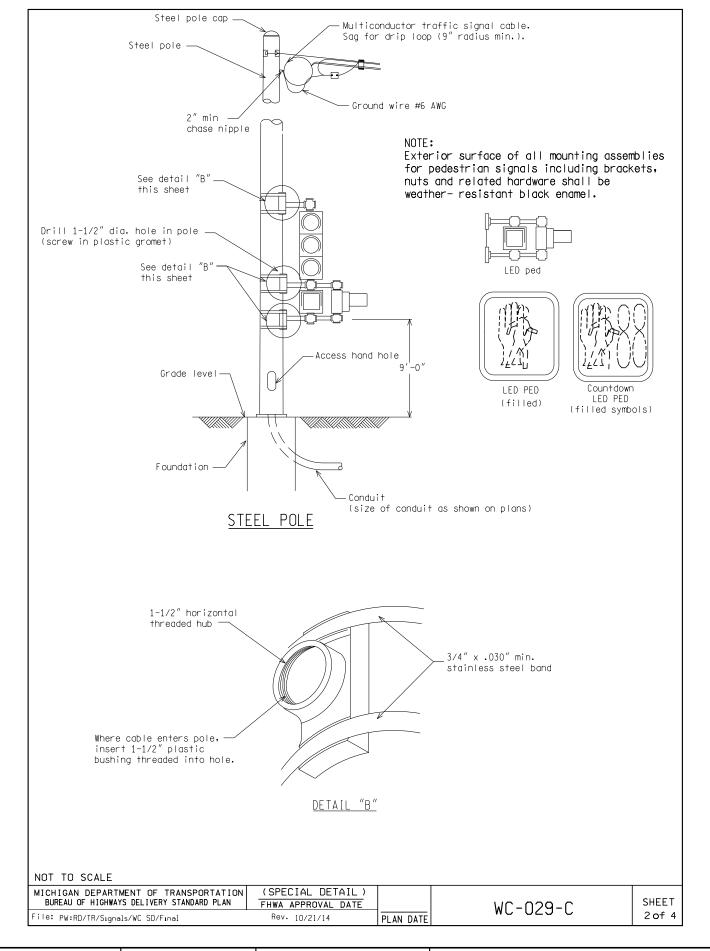




| AS-LET PLAN REVISIONS | DATE | AUTH | DESCRIPTION | No. | DATE | AUTH | DESCRIPTION | DESCRIPTION



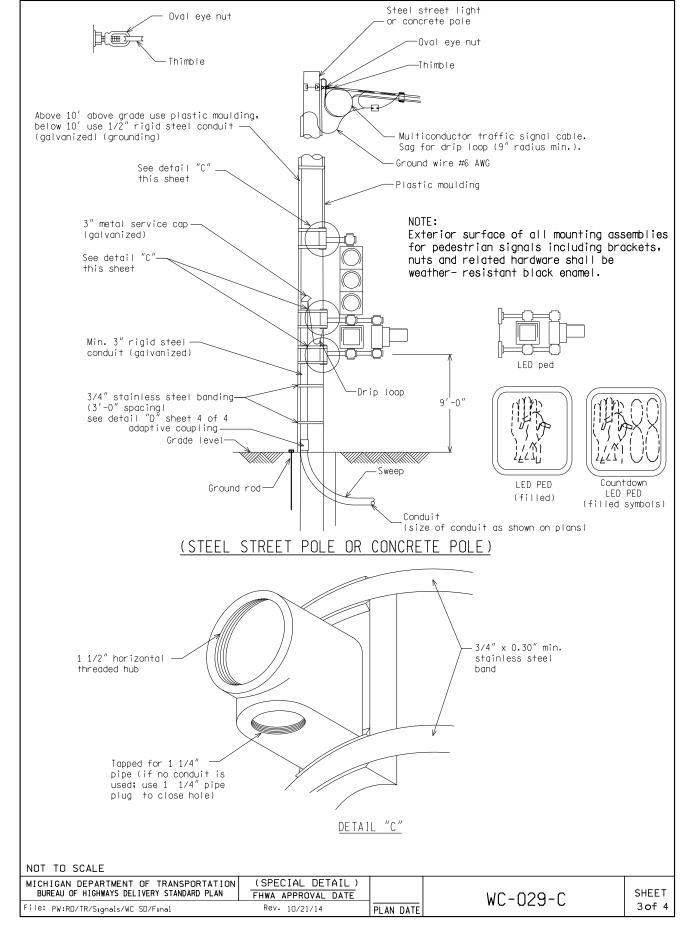


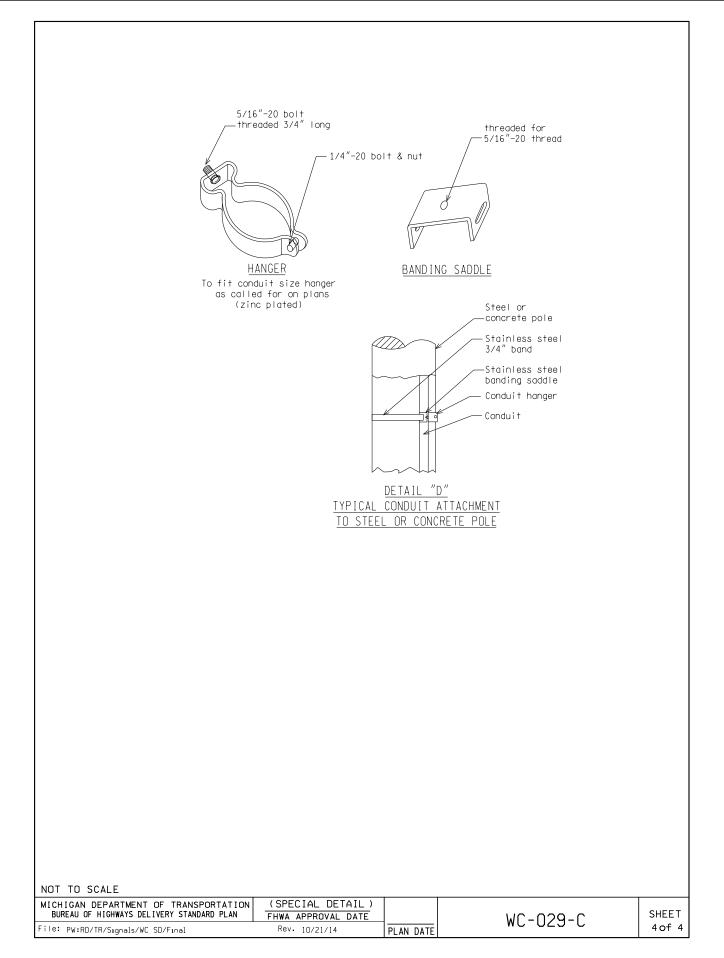


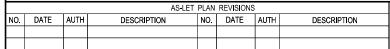
	AS-LET PLAN REVISIONS										
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				



	DATE:	CS:		DRAWING	SHEET
	DESIGN UNIT:	INI			
FILE:	TSC:	IN:			

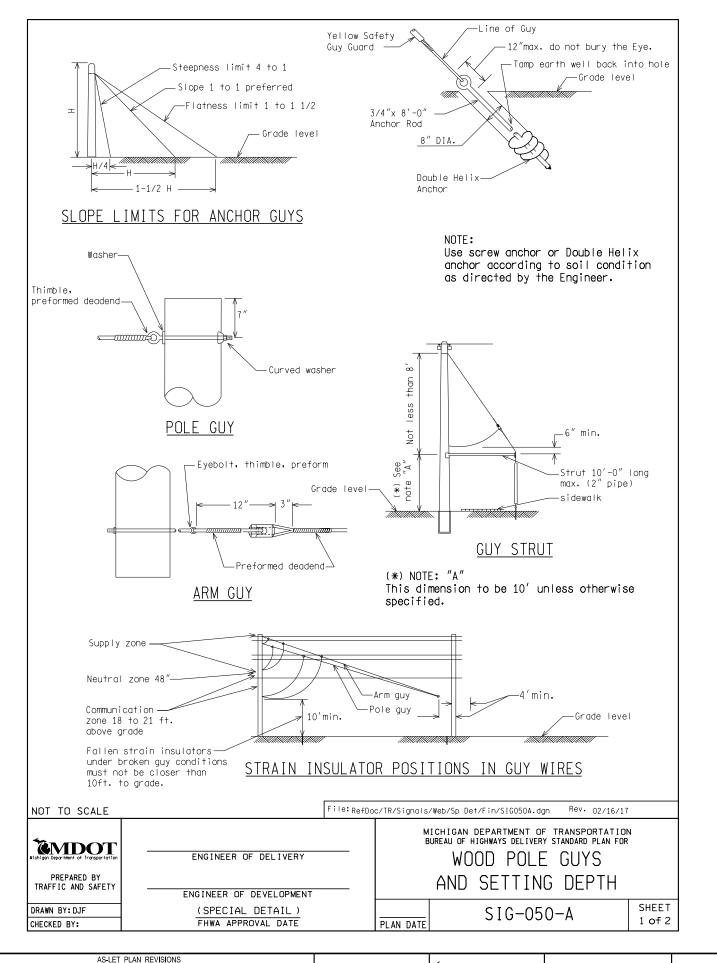


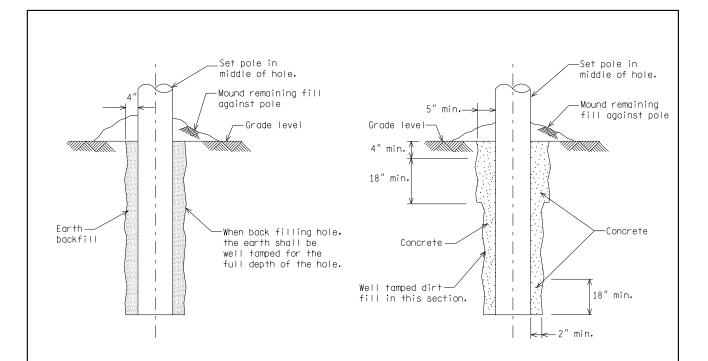






	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	JN:		
FILE:	TSC:	in:		





WOOD POLE INSTALLATION

SELF SUPPORTING WOOD POLE IN CONCRETE

POLE HEIGHT	SETTING DEPTH
30 <i>′</i>	6.0′
35′	6.0′
40′	6.0′
45′	6.5
50 <i>′</i>	7.0′
55 <i>′</i>	7.5′
60′	8.0′

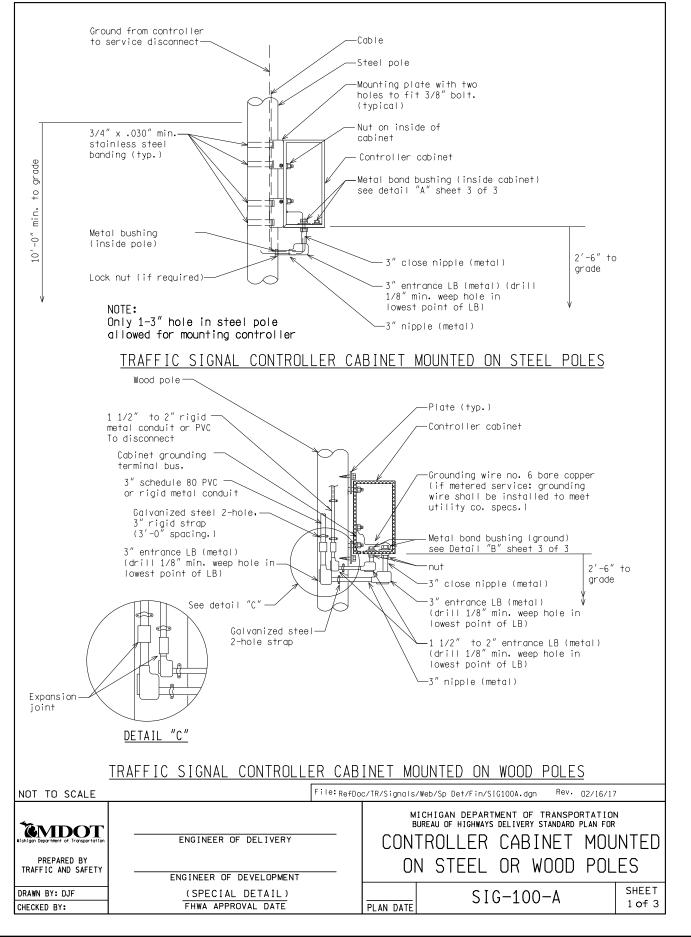
WOOD POLE SETTING DEPTHS Reference Standard Specification for Construction Section 819.03

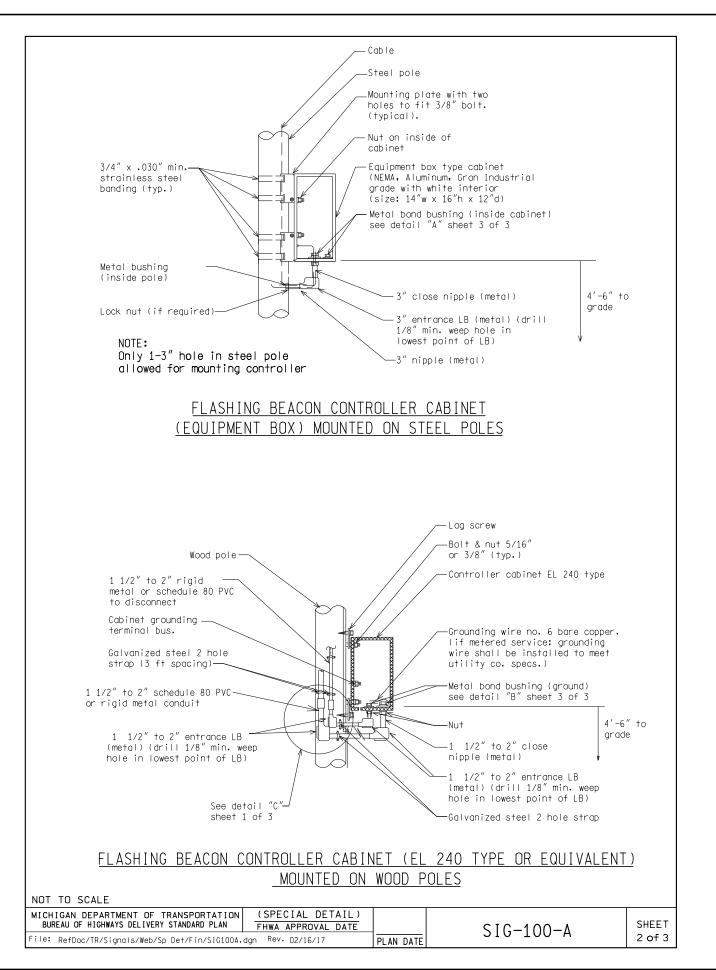
NOT TO SCALE

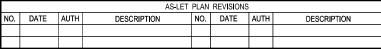
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE		SIG-050-A	SHEET
File: RefDoc/TR/Signals/Web/Sp Det/Fin/SIG050A.d	gn Rev. 02/16/17	PLAN DATE	310 030 A	2 of 2

			710 22		1121101011	•		4		DAIL.
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	EMDOT		DESIGN UNIT:
								Michigan Department of Transportation		
									FILE:	TSC:
 _				_		_				

	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI		
FILE:	TSC:	in:		

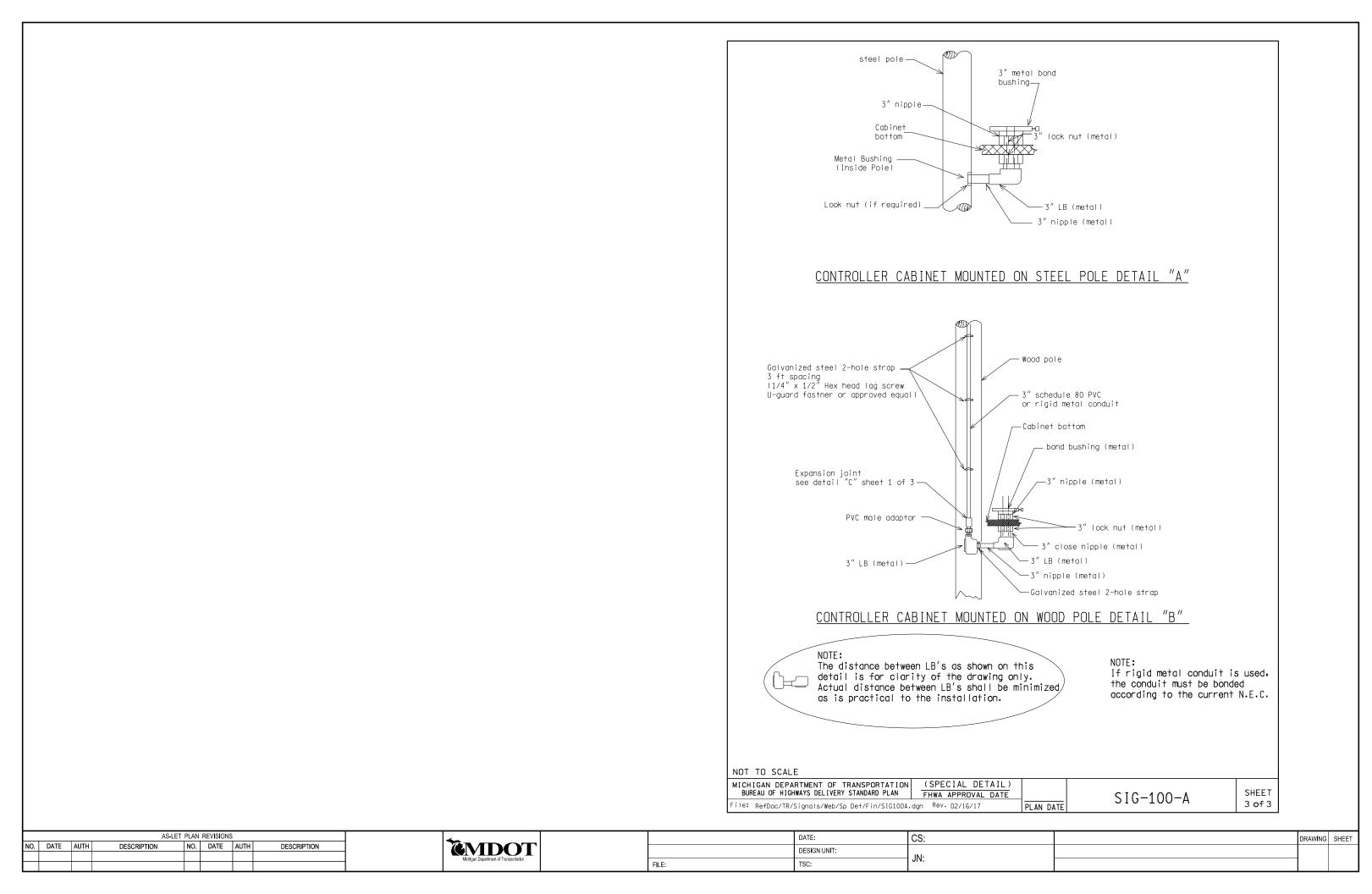


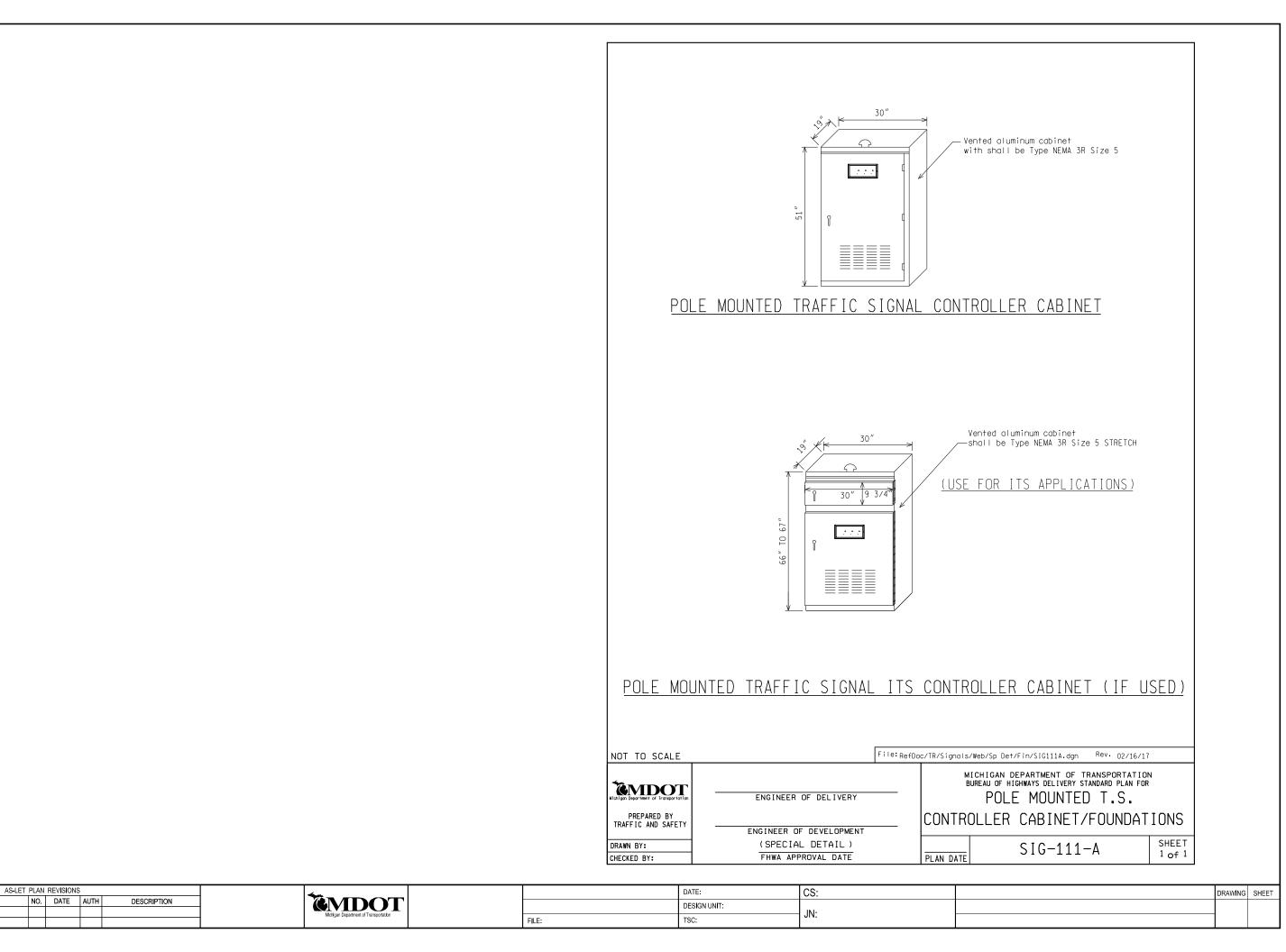




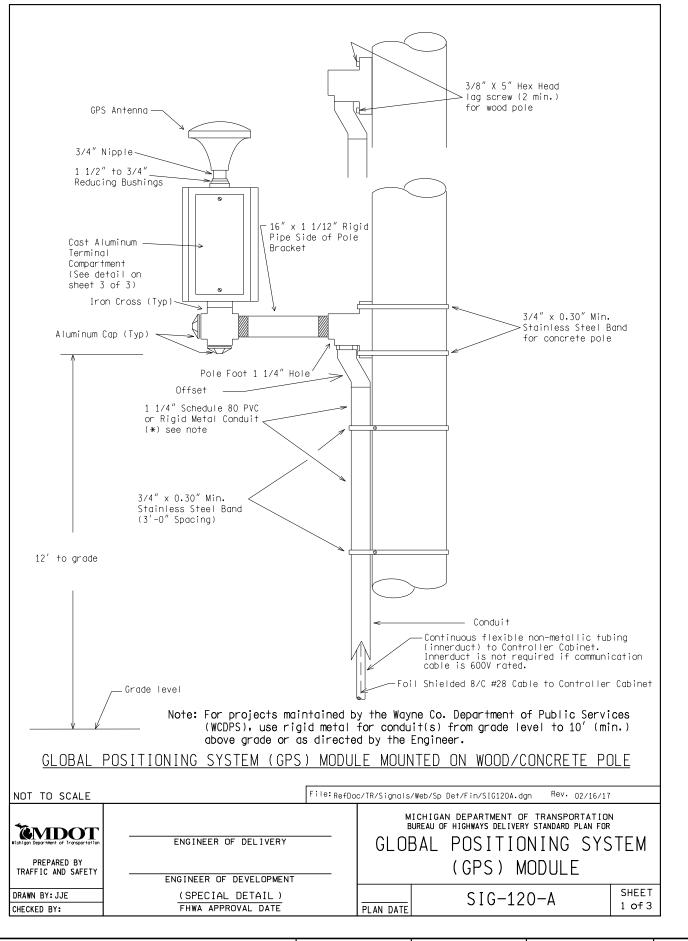


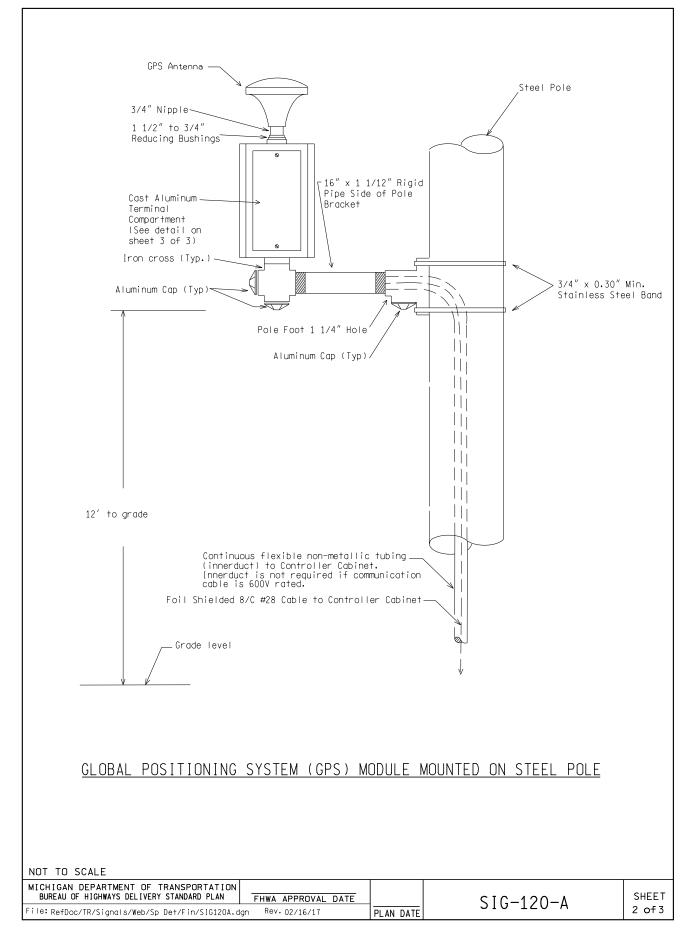
	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI-		
FILE:	TSC:	JN:		





NO. DATE AUTH

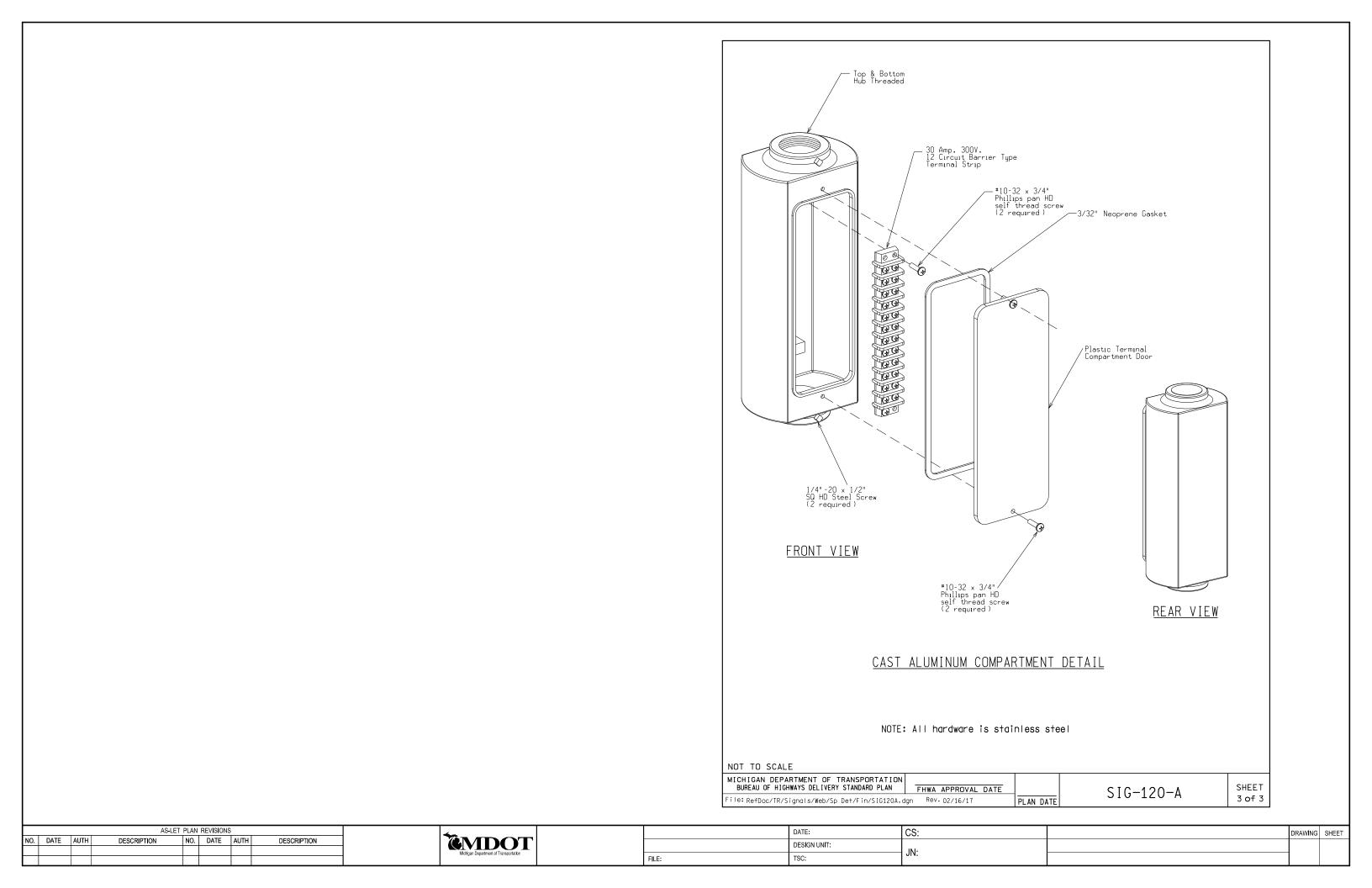


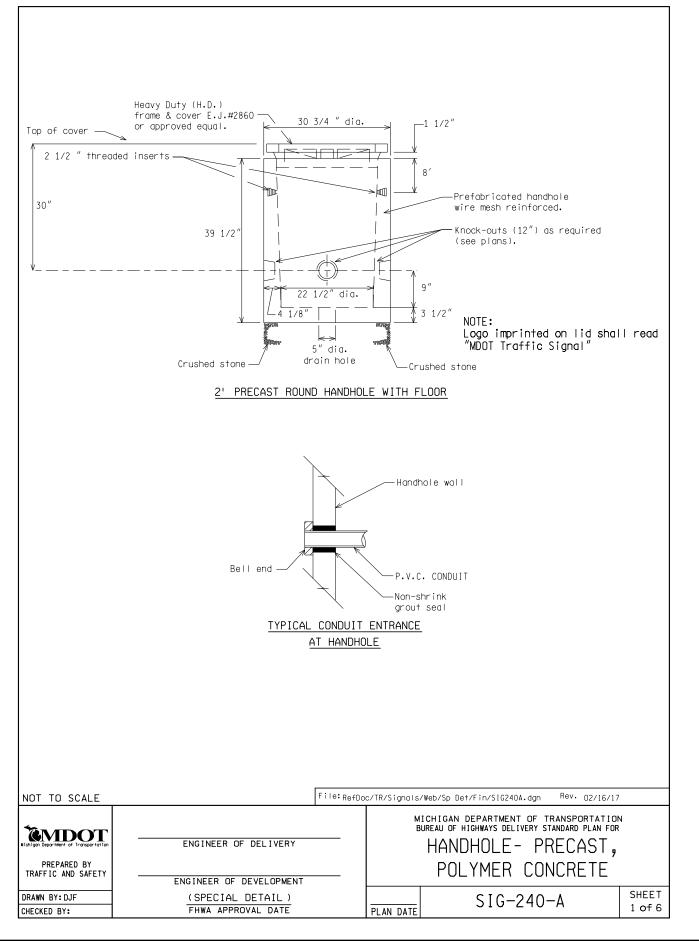


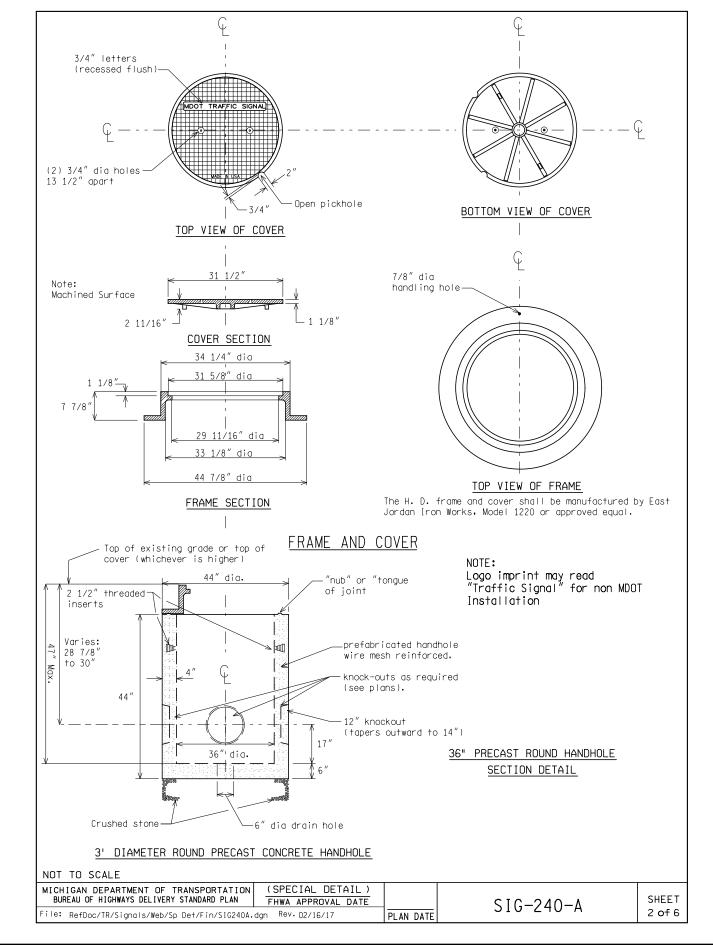
| NO. | DATE | AUTH | DESCRIPTION | NO. | DATE | AUTH | DESCRIPTION | DATE | AUTH | DESCRIPTION | DE

MIchigan Department of Transportation

	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI		
FILE:	TSC:	JIN.		



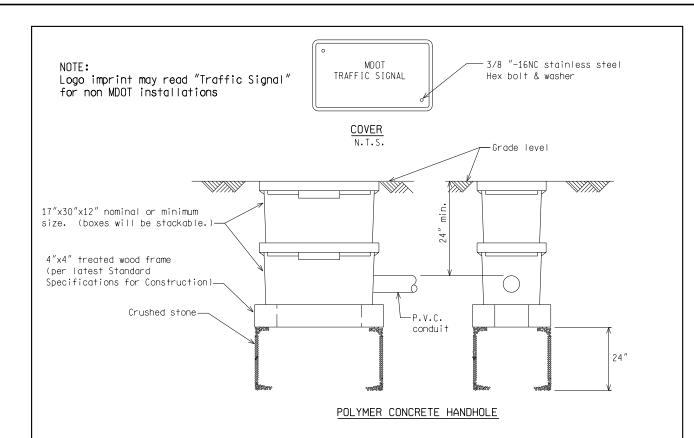




	AS-LET PLAN REVISIONS												
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						



	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	IN		
FILE:	TSC:	JN:		

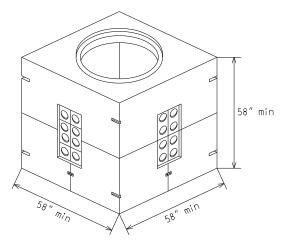


NOTES PERTAIN TO PRECAST OR BRICK:

- 1) The material and workmanship shall be in accordance with the current M.D.O.T. Standard Specifications for Construction.
- 2) All concrete masonary shall be grade 30M.
- 3) The inner surface of the handhole shall be smooth.
- 4) Heavy Duty covers shall be castings which meet the requirements of the current specifications for gray iron castings ASTM designation A48 and shall have a minimum strength as provided for Class No. 30 gray iron castings.
- 5) All castings shall be cleaned by sand blasting.
- 6) The seating face of the cover and the seat for the same on the frame if required, shall be ground or machined so that the cover shall have an even bearing on its seat to prevent rocking or tilting.
- 7) The castings shall be free of pouring faults, blow holes, cracks, and other imperfections. They shall be sound, true to form and thickness, clean and neatly finished and shall be coated with tar pitch varnish.
- 8) Light Duty cover shall be bolted to frame with not less than 2 countersunk Hex head bronze bolts.
- 9) The Heavy Duty cover & frame shall be East Jordan Iron Works #8206 Neenah Foundry, #R-6662-HP for square cover or East Jordan Iron Works #2860 Type "A", Neenah Foundry #R-6052 D for circular cover or an approved equal.

NOT TO SCALE 10) Handhole shall be equipped with cable rack and hooks to train cable.

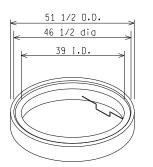
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE		SIC-240-4	SHEET
File: RefDoc/TR/Signals/Web/Sp Det/Fin/SIG240A.	dgn Rev. 02/16/17	PLAN DATE	310 240 A	3 of 6



	Length	Width	Height
nside	48	48	48
utside ecommended	58	58	58
ole size	82	82	

	Min Thickness	Min Weight	<u>lbs</u>
Wall	5	Тор	3300
Roof	5	Bottom	3850
Floor	5	Total	7150

NOTE: Galvanized step is standard with grade ring ASTM C478.



Di	mensions
A 6 9 12	Min Wt. (1bs) 440 650 860

GRADE RING WITH 39" I.D. & 46 1/2" RECESS

4' x 4' x 4' PRECAST CONCRETE HANDHOLE

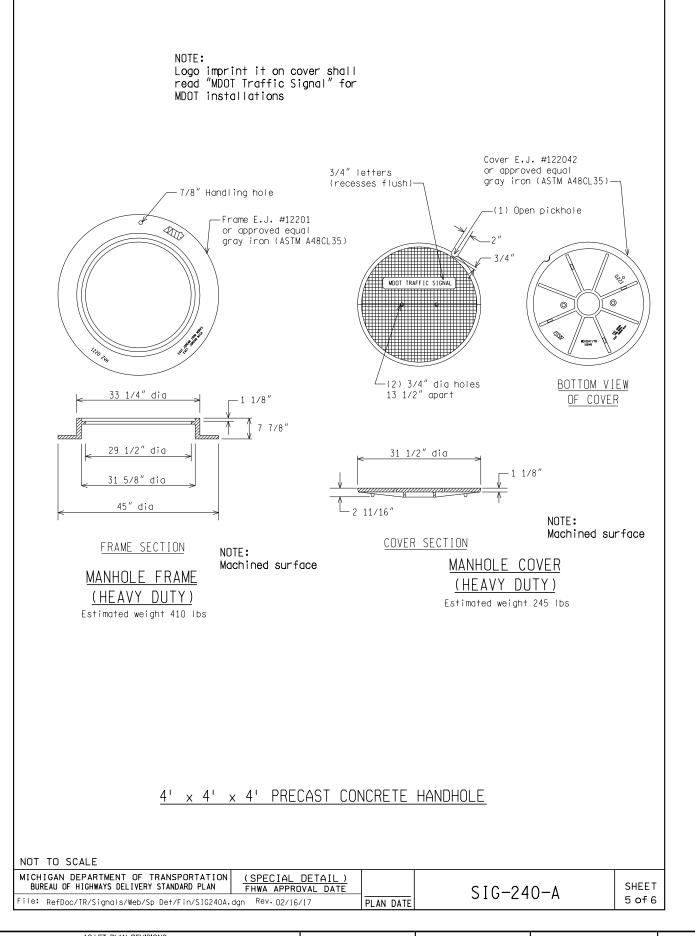
NOT TO SCALE

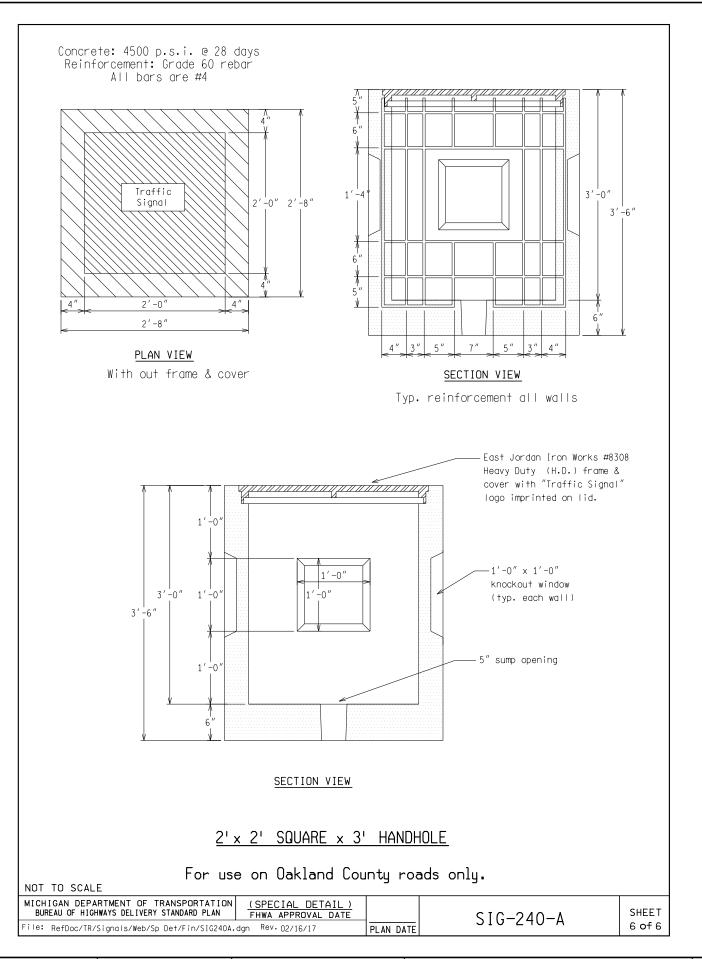
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE		SIG-240-A	SHEET	l
File: RefDoc/TR/Signals/Web/Sp Det/Fin/SIG240A.	dgn Rev. 02/16/17	PLAN DATE	310 240 A	4 of 6	l

			AS-LET	PLAN	REVISIONS	1	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

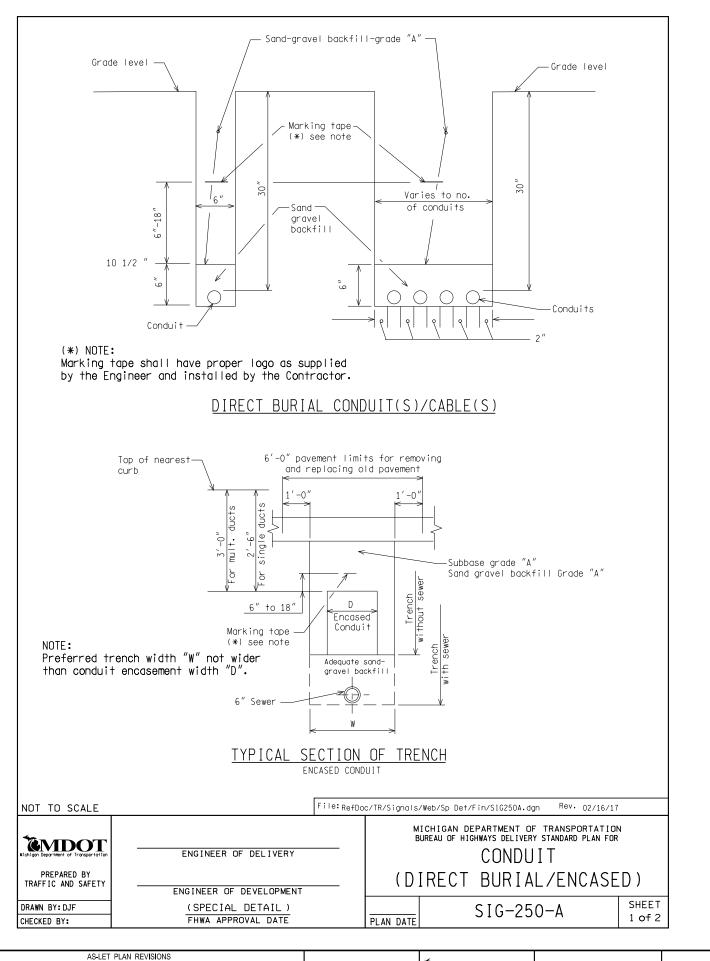


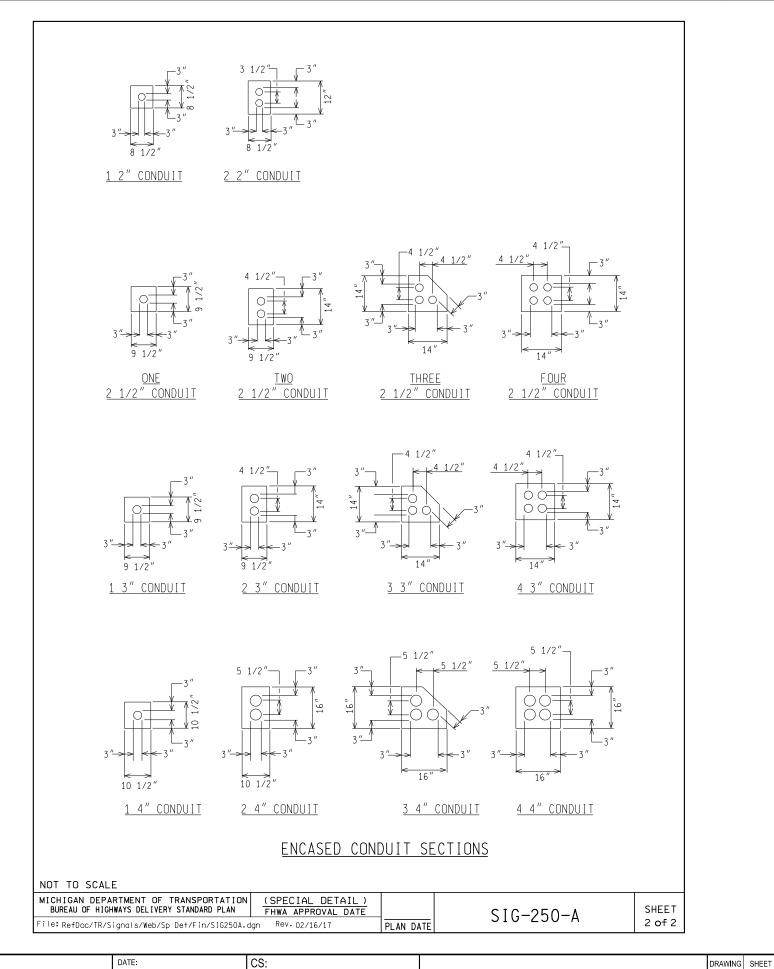
	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI		
FILE:	TSC:	JIN.		



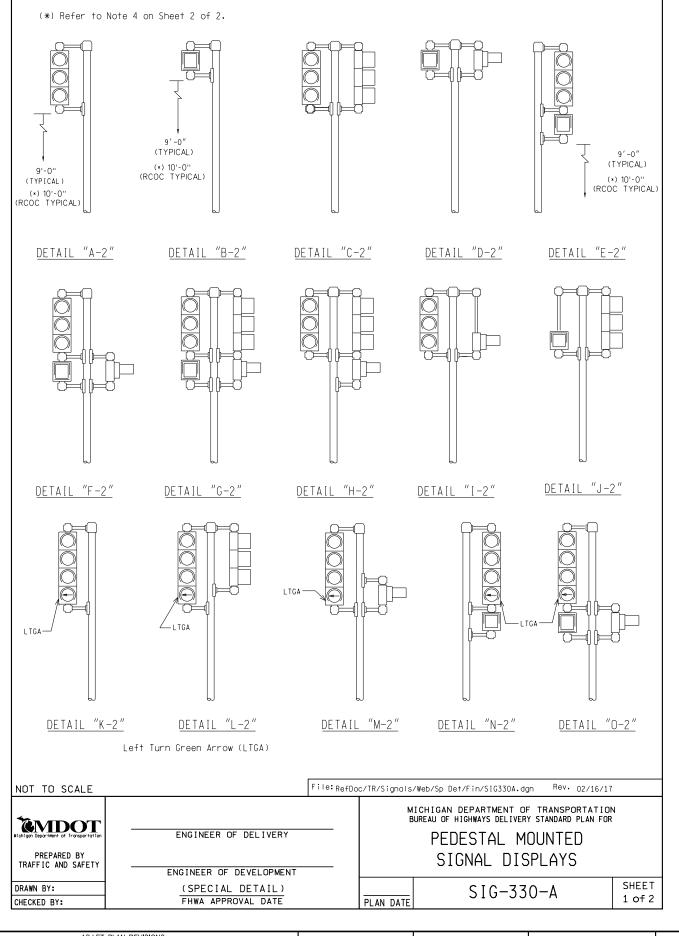


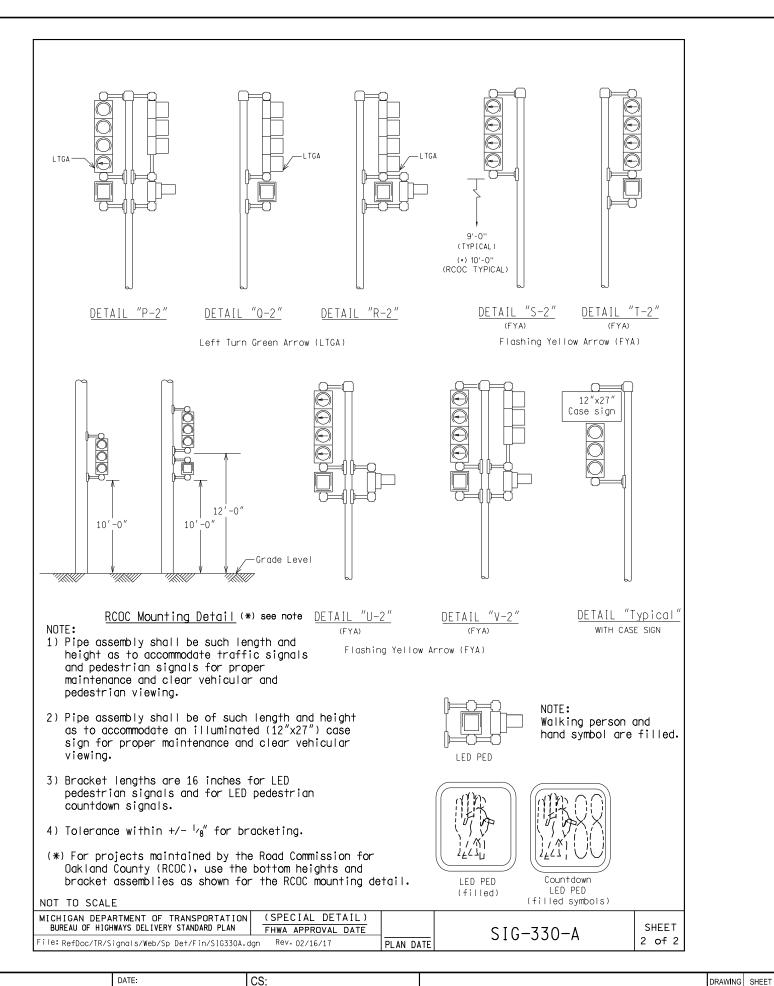




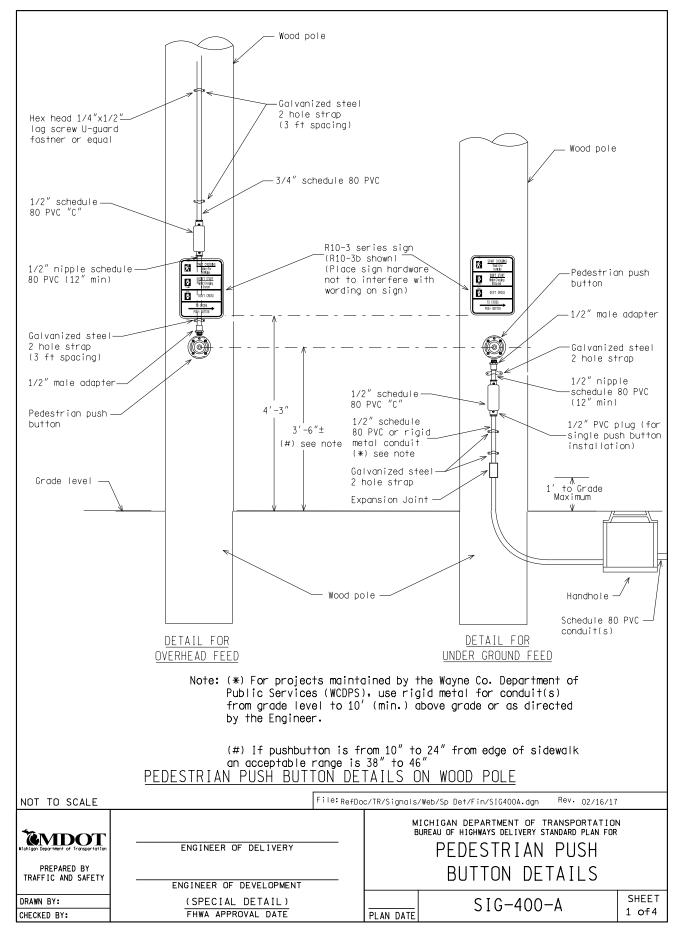


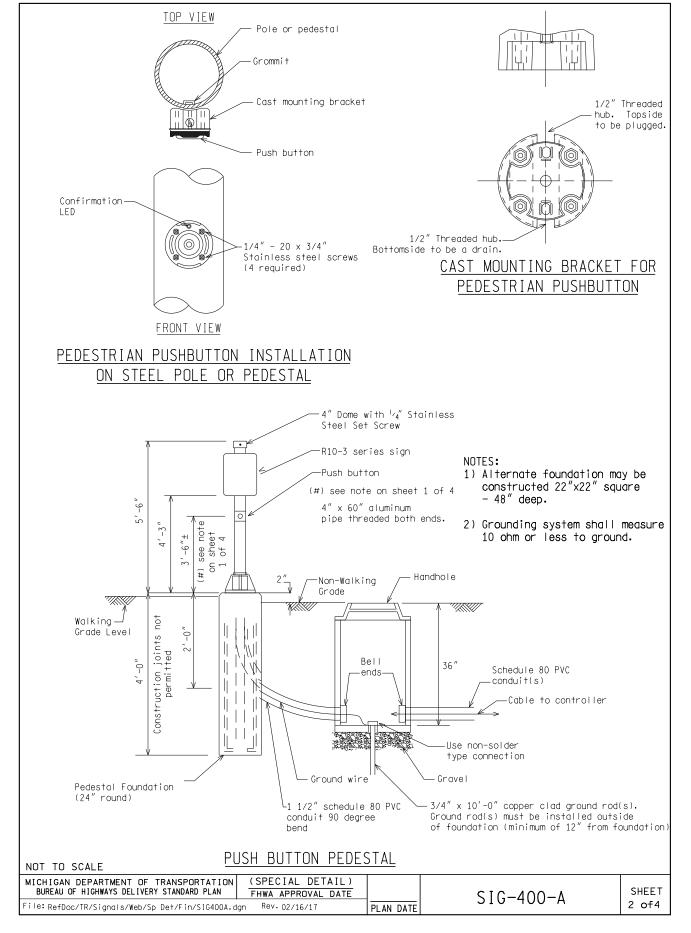
	1				1		I I		╡	**		5/112.	J 00.
	NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION		EMDOT		DESIGN UNIT:	
									1	Michigan Department of Transportation		DESIGN SINT:	IN.
ŀ	_				-				†	michigan Department or Transportation	FILE:	TSC:	JUN.
											.,,==:	1.1	





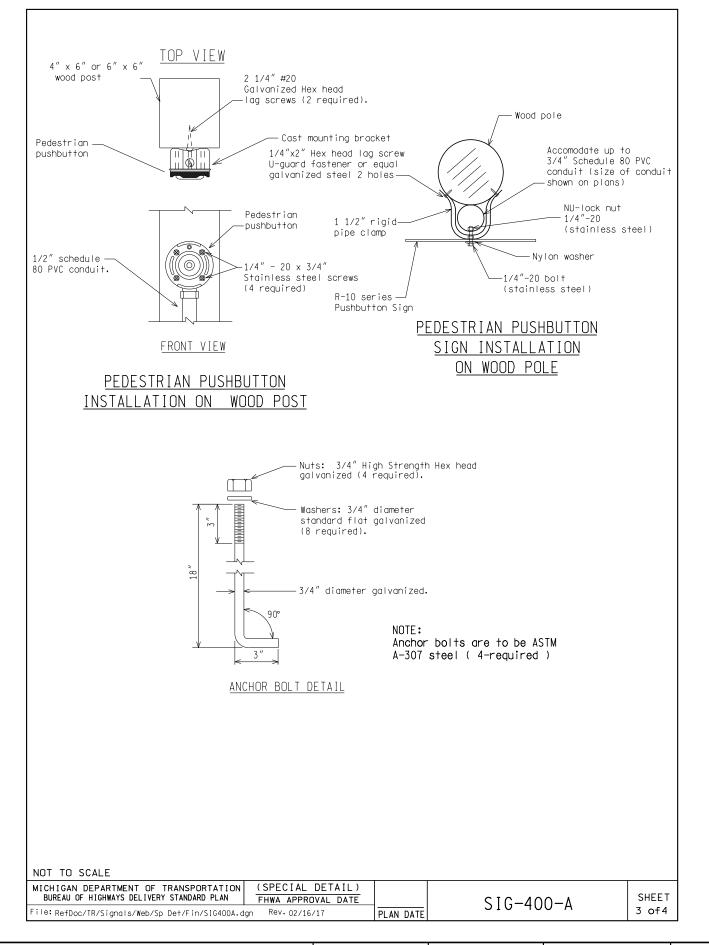
			F PLAN REVISIONS			4			DATE:	CS:	
NO. DATE A	UTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	EMDOT	`		DESIGN UNIT:		
						Michigan Department of Transportation		50.5	T00:	JN:	
			1 1					FILE:	130.		

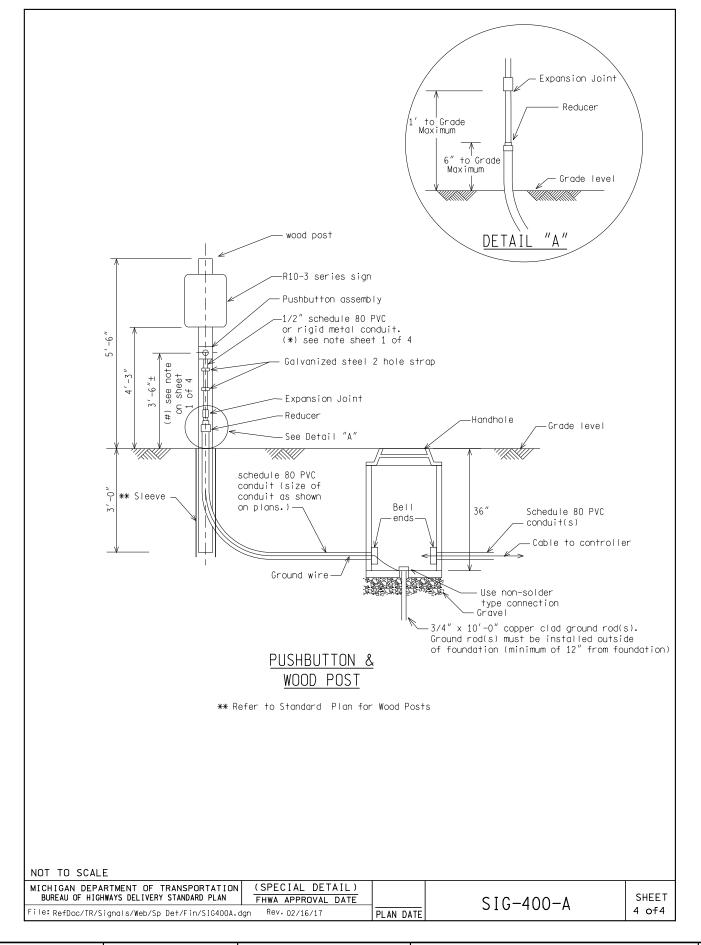


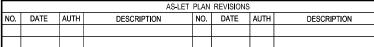


Michigan Department of Transportation

	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	INI		
FILE:	TSC:	JN:		









		DATE:	CS:	DRAWING	SHEET
		DESIGN UNIT:	JN:		
ı	FILE:	TSC:	JIN:		