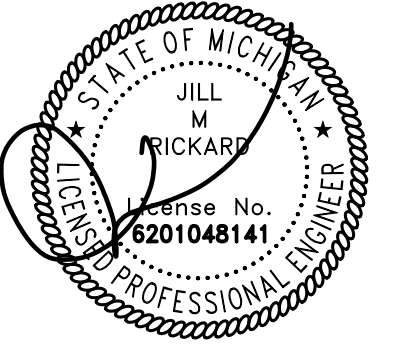


CONSTRUCTION PLANS

IRON BELLE TRAIL SECTION D

VAN BUREN TWP, WAYNE COUNTY, MICHIGAN



PERMIT / APPROVAL SUMMARY		
DATE SUBMITTED	DATE APPROVED	PERMIT / APPROVAL
	2/21/2024	EGLE PERMIT
	5/28/2024	WCDPS R24-0083

BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #300
ARROW ON TOP OF HYDRANT. 272' EAST OF Y IN VAN BUREN PARK ROAD AND 16' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD.
ELEV. - 700.91

BM #301
SPIKE IN EAST SIDE OF LIGHT POLE. 107' EAST OF CENTER LINE OF VAN BUREN PARK ROAD AND 777' SOUTH OF CENTER LINE OF SOUTH INTERSTATE 94 SERVICE DR.
ELEV. - 703.69

BM #302
ARROW ON TOP OF HYDRANT. 21' WEST OF NORTHWEST CORNER OF CAR PORT AND 124' SOUTHWEST OF INTER SECTION OF DENTON ROAD AND OLD DENTON ROAD.
ELEV. - 700.22

BM #303
ARROW ON TOP OF HYDRANT. 35' EAST OF CENTER LINE OF DENTON ROAD AND 70' WEST OF NORTHWEST CORNER OF CAR PORT.
ELEV. - 696.45

BM #304
ARROW ON TOP OF HYDRANT 37' WEST OF CENTER LINE OF DENTON ROAD AND 272' NORTHWEST OF INTER SECTION OF DENTON ROAD AND BECKLEY ROAD.
ELEV. - 678.71

BM #305
SOUTHWEST DIE OF STORM SEWER MANHOLE. 19' NORTHWEST OF INTER SECTION OF CHURCH STREET AND 3RD STREET AND 41' SOUTH WEST OF BUILDING CORNER.
ELEV. - 668.75

BM #306
NORTH SIDE OF SANITARY SEWER MANHOLE. 46' NORTHWEST OF INTER SECTION OF ROYS STREET AND CHURCH STREET AND 45' NORTHEAST OF NORTHEAST CORNER OF GAZEBO.
ELEV. - 669.71

BM #307
NORTHEAST SIDE OF MANHOLE. 47' SOUTHWEST OF INTER SECTION OF CHURCH STREET AND 2ND STREET AND 53' SOUTHWEST OF SOUTHWEST CORNER OF BUILDING.
ELEV. - 673.56

BM #308
NORTH SIDE OF SANITARY SEWER MANHOLE. 67' SOUTHWEST OF INTER SECTION OF HURON RIVER ROAD AND SOUTH LIBERTY STREET AND 29' SOUTHWEST OF SOUTHWEST CORNER OF VICTORY PARK SIGN.
ELEV. - 671.44

BM #309
1/2" IRON ROD WITH CAP. 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256' NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV. - 698.59

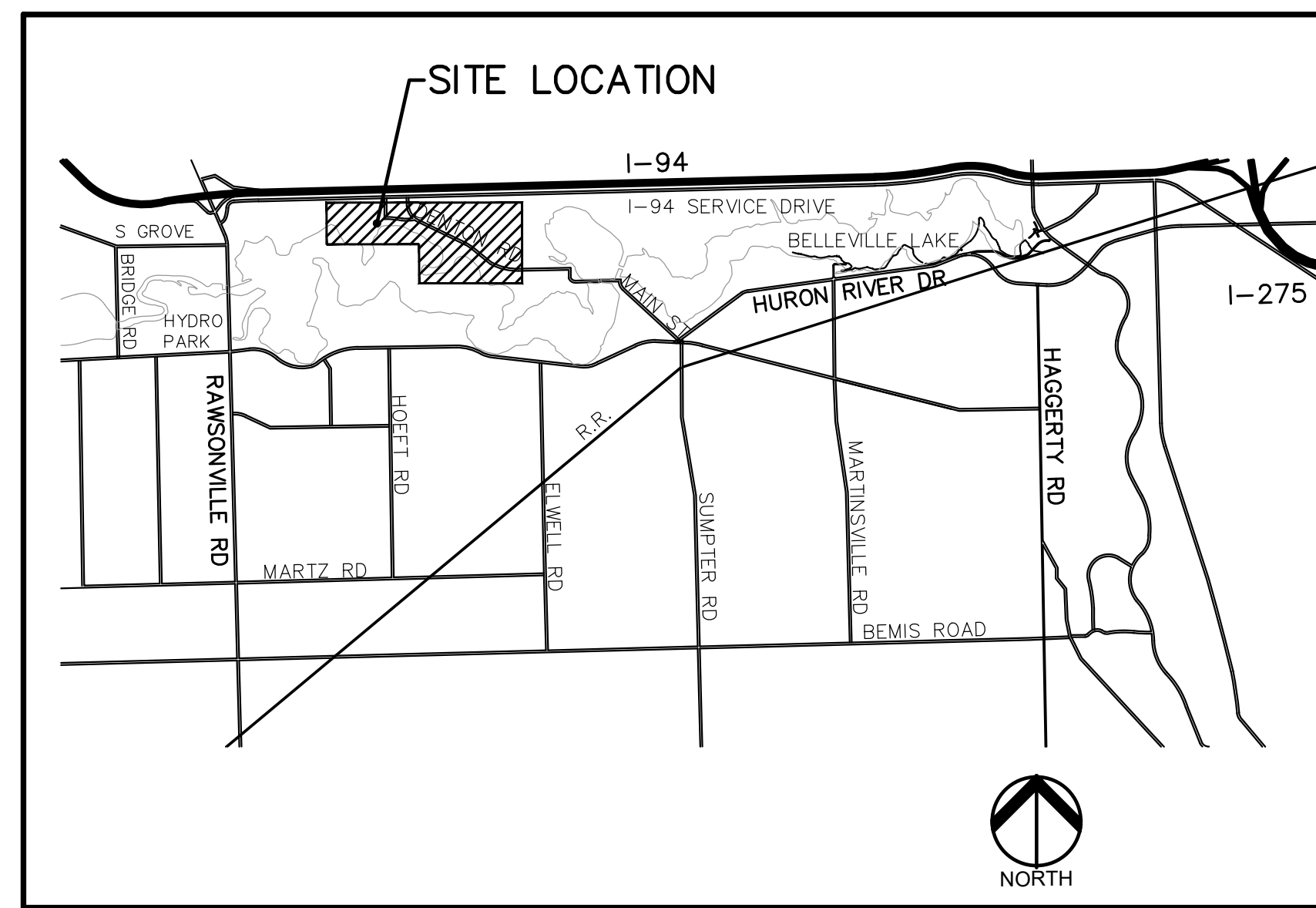
BM #310
RIM ON SANITARY SEWER MANHOLE. 21' SOUTH OF CENTER LINE OF SOUTH INTERSTATE SERVICE ROAD AND 110' WEST OF VAN BUREN PARK INTERESTS.
ELEV. - 702.67

BM #311
RIM OF WATER MAIN MANHOLE. 24' SOUTH OF CENTER LINE OF SOUTH INTERSTATE SERVICE ROAD AND 163' NORTHEAST OF NORTH EAST BUILDING CORNER OF DENNY'S.
ELEV. - 704.95

BM #312
RIM OF STORM SEWER MANHOLE. 44' EAST OF SOUTH INTERSTATE SERVICE ROAD AND 233' SOUTHWEST OF SOUTHWEST OF BUILDING CORNER OF DENNY'S.
ELEV. - 703.85

BM #313
RIM OF ELECTRIC MANHOLE. 88' SOUTHWEST OF INTER SECTION OF RAWSONVILLE ROAD AND SOUTH INTERSTATE SERVICE ROAD AND 182' NORTHWEST OF NORTHWEST BUILDING CORNER OF TIM HORTONS.
ELEV. - 708.11

BM #314
RIM OF STORM SEWER MANHOLE. 56' NORTHWEST OF RAWSONVILLE ROAD AND SOUTH GROVE STREET AND 76' SOUTHWEST OF SOUTHWEST CORNER OF SPEEDWAY OVERHANG.
ELEV. - 700.08



LOCATION MAP
NO SCALE

Sheet List Table	
Sheet Title	Sheet Number
(C-0.0) COVER	C-0.0
OVERALL PLAN	C-1.1
TOPO SURVEY AND DEMO PLAN	C-2.1
TOPO SURVEY AND DEMO PLAN	C-2.2
TOPO SURVEY AND DEMO PLAN	C-2.3
TOPO SURVEY AND DEMO PLAN	C-2.4
TOPO SURVEY AND DEMO PLAN	C-2.5
TOPO SURVEY AND DEMO PLAN	C-2.6
LAYOUT AND STRIPING PLAN	C-3.1
LAYOUT AND STRIPING PLAN	C-3.2
LAYOUT AND STRIPING PLAN	C-3.3
LAYOUT AND STRIPING PLAN	C-3.4
LAYOUT AND STRIPING PLAN	C-3.5
LAYOUT AND STRIPING PLAN	C-3.6
LAYOUT AND STRIPING PLAN	C-3.7
LAYOUT AND STRIPING PLAN	C-3.8
WEST PARK PATH PLAN & PROFILE	C-4.1
EAST PARK PATH PLAN & PROFILE	C-4.2
GRADING AND SESC	C-4.3
GRADING AND SESC	C-4.4
DENTON ROAD PLAN AND PROFILE	C-4.5
DENTON ROAD PLAN AND PROFILE	C-4.6
DENTON ROAD PLAN AND PROFILE	C-4.7
GRADING AND SESC	C-4.8
GRADING AND SESC	C-4.9
GRADING AND SESC	C-4.10
GRADING AND SESC	C-4.11
DETAIL SHEET	C-5.1
DETAIL SHEET	C-5.2
DETAIL SHEET	C-5.3
SANITARY FORCE MAIN 1	C-6.1
SANITARY FORCE MAIN 2	C-6.2

PROJECT DESCRIPTION:

THIS PROJECT IS PART OF THE IRON BELLE TRAIL PROJECT. IT CONSISTS OF CONSTRUCTING APPROXIMATELY 36 AC OF SIDEWALK AND BITUMINOUS PATH ALONG DENTON ROAD AND OLD DENTON ROAD. THIS PROJECT ALSO INCLUDES RESTRIPIING DENTON ROAD FOR A BIKE LANE AND SHARROW. THIS PROJECT WILL CONNECT INTO SECTION C (PREVIOUSLY CONSTRUCTED) AT A FUTURE DATE.

THIS PROJECT IS LOCATED WITHIN THE EXISTING RIGHT OF WAY OR WITHIN THE ULTIMATE COUNTY RIGHT OF WAY. A LAND USE CHART IS NOT APPROPRIATE.

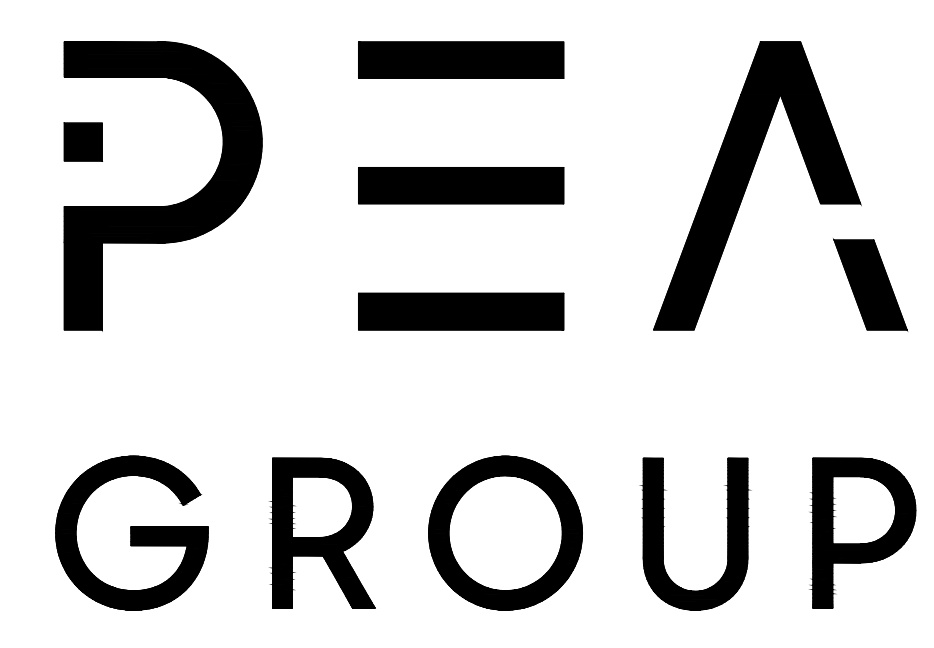
WAYNE COUNTY REVIEW NO.: R-24-0083

DESIGN TEAM	
OWNER/APPLICANT/DEVELOPER	CIVIL ENGINEER
VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN TWP., MI 48111 CONTACT: ELIZABETH RENAUD PHONE: 734-699-8900 EXT 9258 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
STRUCTURAL ENGINEER	LANDSCAPE ARCHITECT
TETRA TECH 7927 NEMCO WAY BRIGHTON, MI 48116 CONTACT: ALAN FLAK, P.E. PHONE: 810-225-8403 EMAIL: ALAN.FLAK@TETRATECH.COM	PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, PLA, LEED AP PHONE: 844.813.2949 EMAIL: JSMITH@PEAGROUP.COM

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BRIDGE PLANS (BY OTHERS)

B-1	GENERAL PLAN OF STRUCTURE
B-2	GENERAL PLAN OF STRUCTURE
B-3	ABUTMENT DETAILS
B-4	ABUTMENT DETAILS

MDOT STANDARD PLANS:
LATEST EDITION - (INCLUDED BY REFERENCE). ALL WORK SHALL CONFORM TO THE MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION

TITLE	PLAN NO.
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-J
GUARDRAIL TYPES A, B, BD, T, TD, MGS-8, & MGS-8D	R-60-J
GUARDRAIL APPROACH TERMINAL TYPE 2M "MSKT"	R-62-H
GUARDRAIL DEPARTING TERMINAL TYPES B, T, & MGS	R-66-E

REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE	3/19/2021
WC REVISION	4/16/2024
WC REVISION	5/16/2024

NOT FOR CONSTRUCTION

PEA GROUP IRON BELLE TRAIL SECTION D | PEA JOB NO. 2019-0369 | CONSTRUCTION PLANS

1.	REVISED	11/15/2019
2.	REVISED	11/15/2019
3.	REVISED	11/15/2019

CAUTION!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS GIVEN BY THE ENGINEER AS TO THE ACCURACY OF THE INFORMATION. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

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t: 844.813.2949 www.peagroup.com

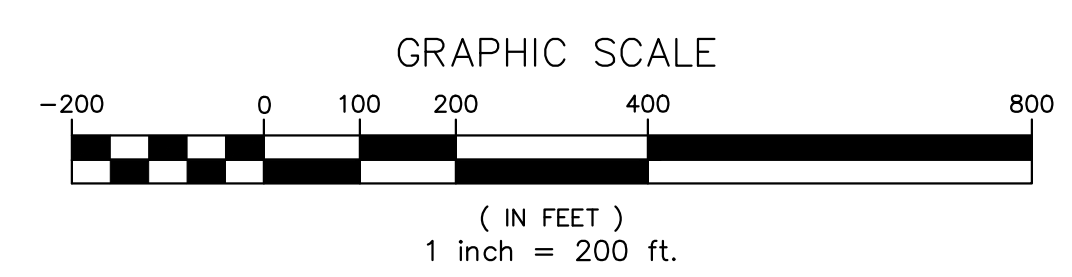
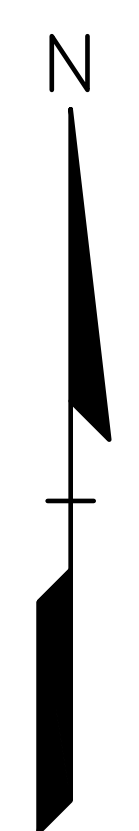
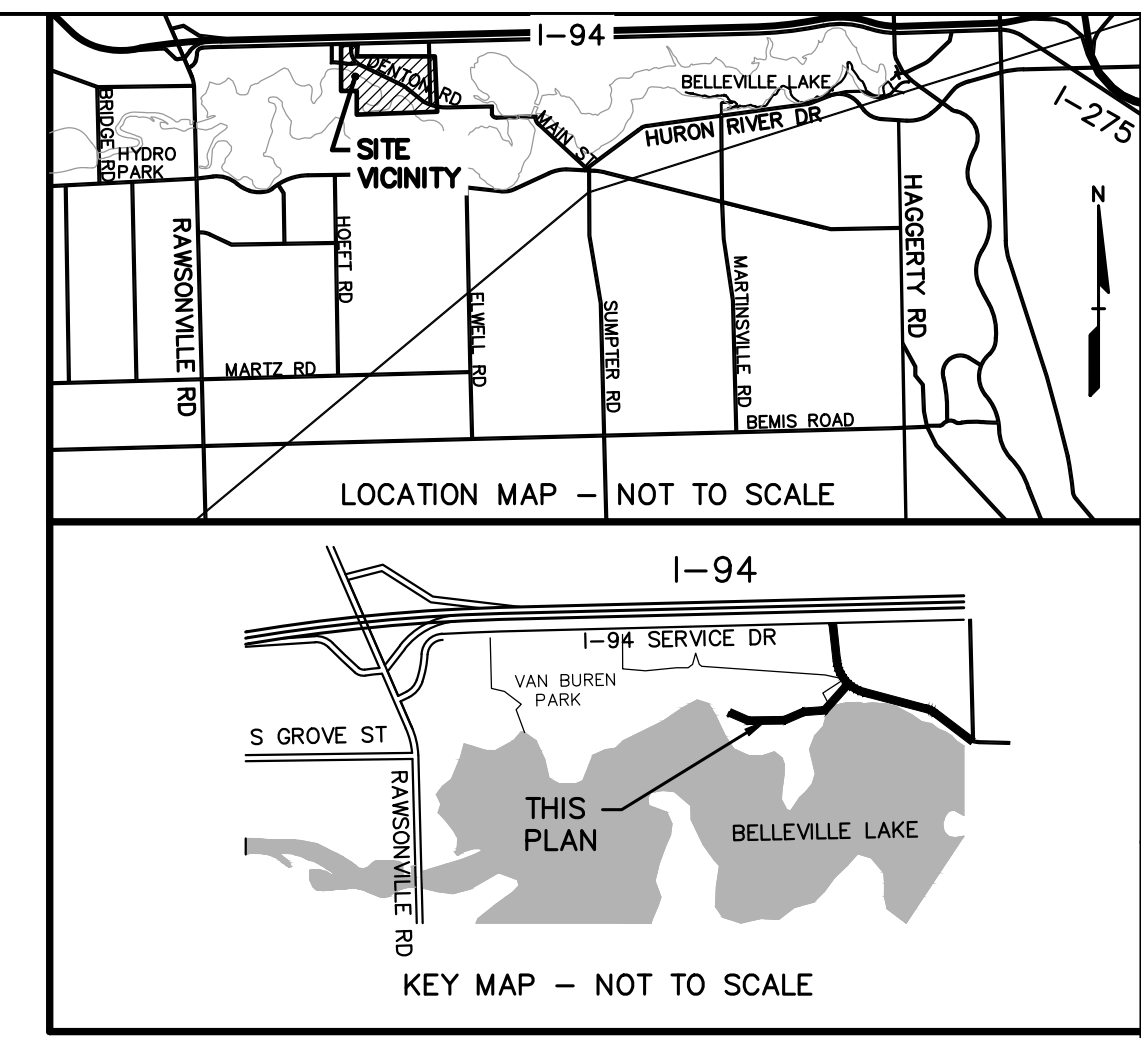
VAN BUREN TOWNSHIP	DES.	JMR	DN.	JW	P.M.	US
46425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111	OVERALL PLAN					
IRON BELLE TRAIL-SECTION D						
WAYNE COUNTY, MI						

ORIGINAL ISSUE DATE: MARCH 19, 2021

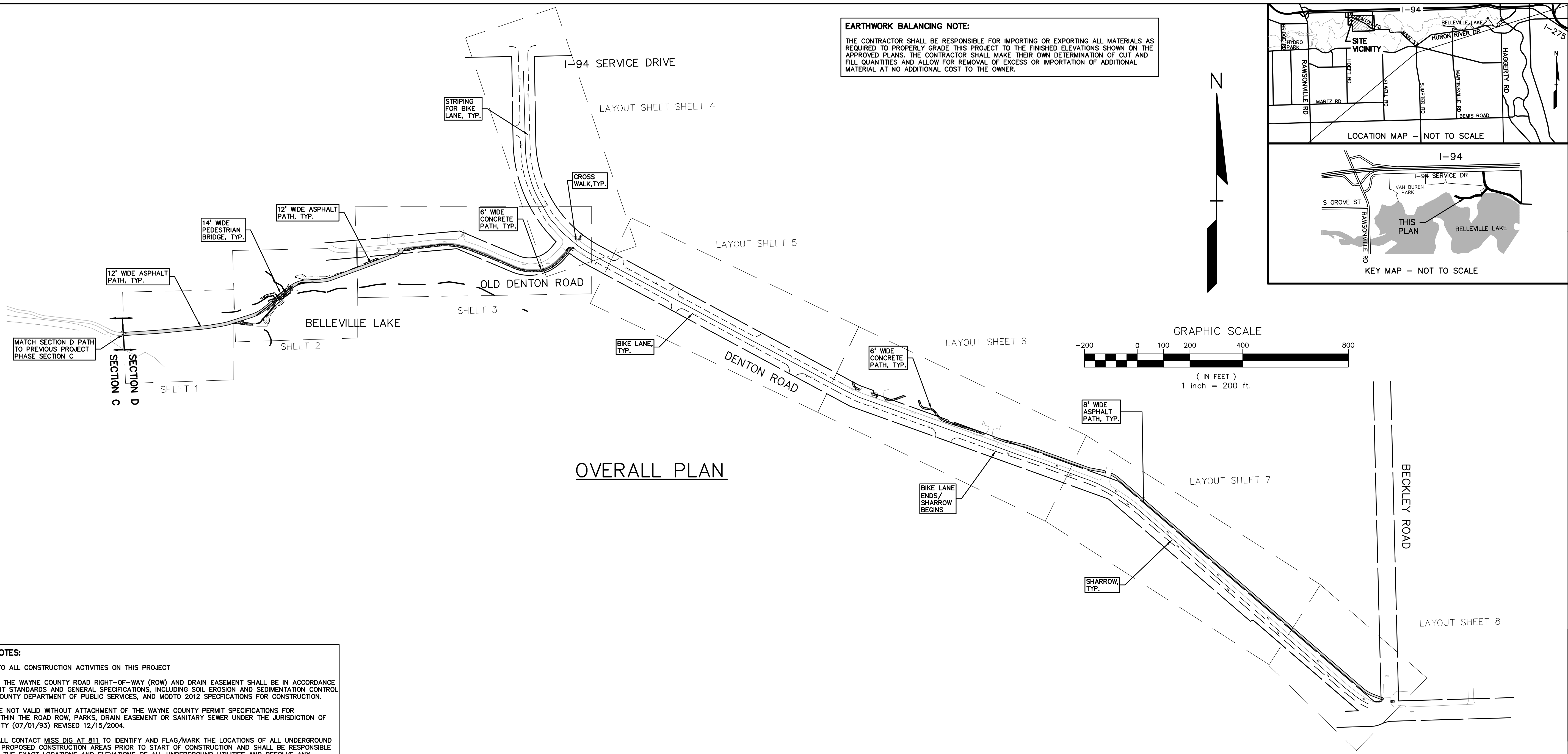
PEA JOB NO. 2019-369

SCALE: 1" = 200'

DRAWING NUMBER: 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.



OVERALL PLAN

WAYNE COUNTY NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT
- 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 MODTO 2012 SPECIFICATIONS FOR CONSTRUCTION.
 - 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 THE JURISDICTION OF THE WAYNE COUNTY (07/01/93) REVISED 12/15/2004.
 - 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 ABOVE GROUND UTILITIES.
 - 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.
 - 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 REPLACING SURVEY MONUMENTS AND MONUMENT BOXES.
 - 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 AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
 - CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE WAYNE COUNTY ROAD ROW AND DRAIN EASEMENT WITH 3" TOPSOIL, 1/4" SEED MIX AND MULCH. SLOPES STEEPER THAN 1 ON 3 SHALL BE RESTORED BY PLACING SOD ON 2" TOPSOIL.
 - 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".
 - 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.
 - 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.
 - MAINTAIN A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS AT ALL TIMES THROUGHOUT THE PROJECT DURATION.
 - 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.
 - REMOVE ALL ABANDONED CONDUITS FROM THE COUNTY ROADS ROW OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
 - CONTRACTOR SHALL PROVIDE COLD WEATHER PROTECTION FOR ALL PROPOSED CONCRETE WORK (PAVEMENTS, SIDEWALKS, DRIVE APPROACHES, ETC.) AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
 - OVERNIGHT VEHICLE PARKING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT ARE NOT PERMITTED WITHIN THE WAYNE COUNTY ROADS RIGHTS-OF-WAY.
 - CONTRACTOR SHOULD OBTAIN A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE WAYNE COUNTY DPS. CONTACT THE WAYNE COUNTY SOIL EROSION OFFICE AT (734) 326-5565, OR THE COMMUNITY HAVING JURISDICTION OVER THE SOIL EROSION PERMIT.
 - CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 955-2154.
 - CONTRACTOR SHALL NOTIFY WAYNE COUNTY 72 HOURS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734) 858-2764.

PAVING NOTES:

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
- 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:
 - 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.
 - 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 OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT.
 - 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:
 - 6-INCH THICK CONCRETE PAVEMENT: 12' X 12'
 - 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.
 - 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
 - JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT
 - PLACE CONTRACTION JOINTS AT 10' INTERVALS
 - PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
 - PLACE 1" EXPANSION JOINT:
 - AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE
 - AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS
 - AT OPPOSITE ENDS IN A CURBED LANDSCAPE ISLAND
 - JOINTS WHEN TIED TO CONCRETE PAVEMENT
 - PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE CONTRACTION JOINTS IN PAVEMENT
 - PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
 - PLACE 1" EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT
 - CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT)
 - IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT):
 - CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
 - IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT SPECIFICATIONS
- CONCRETE SIDEWALK JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION
 - PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE WALK WHEN WIDTH IS LESS THAN 8'
 - PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER THAN 8'
 - PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION
 - PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100' SPACING
 - PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES), UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS

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.
 - ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 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.
 - THE DETENTION BASIN SIDE SLOPES AND ALL SLOPE EXCEEDING 1:4 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.
 - ALL DISTURBED AREAS SHALL BE SEEDDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A 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 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.
 - 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 DELTERIOUS MATERIALS.
 - 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 GEOTEXTILES 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.
 - 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.
 - ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

GENERAL NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - 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 AT HIS OWN RISK.
 - 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.
 - 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 PROJECT LIMITS.
 - 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.

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369_VB_PARKWAY PLANS\X-SURF-D-19369.DWG
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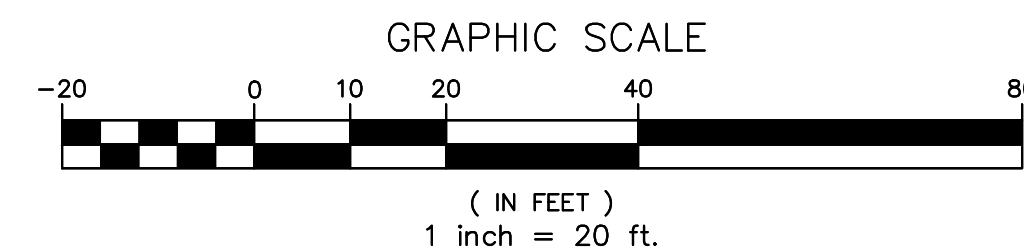
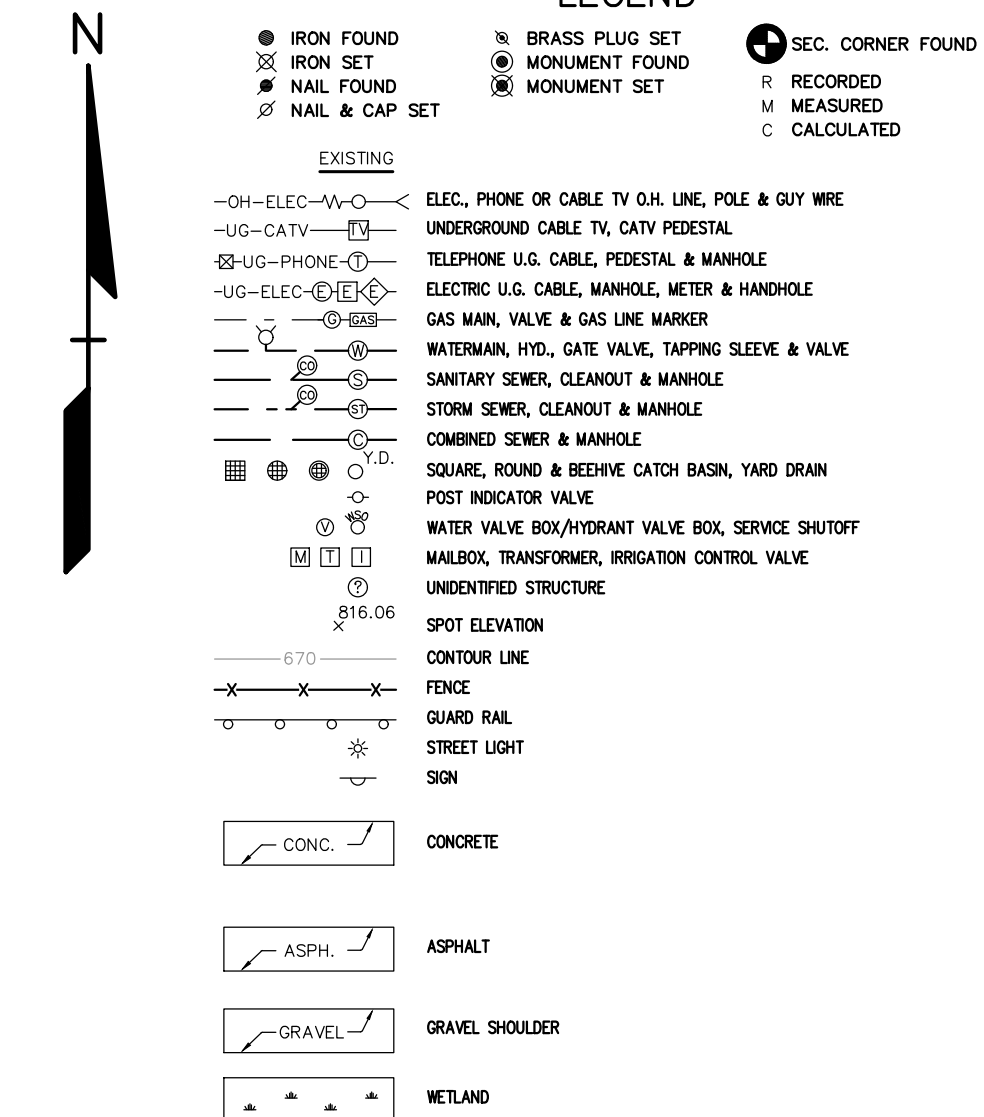
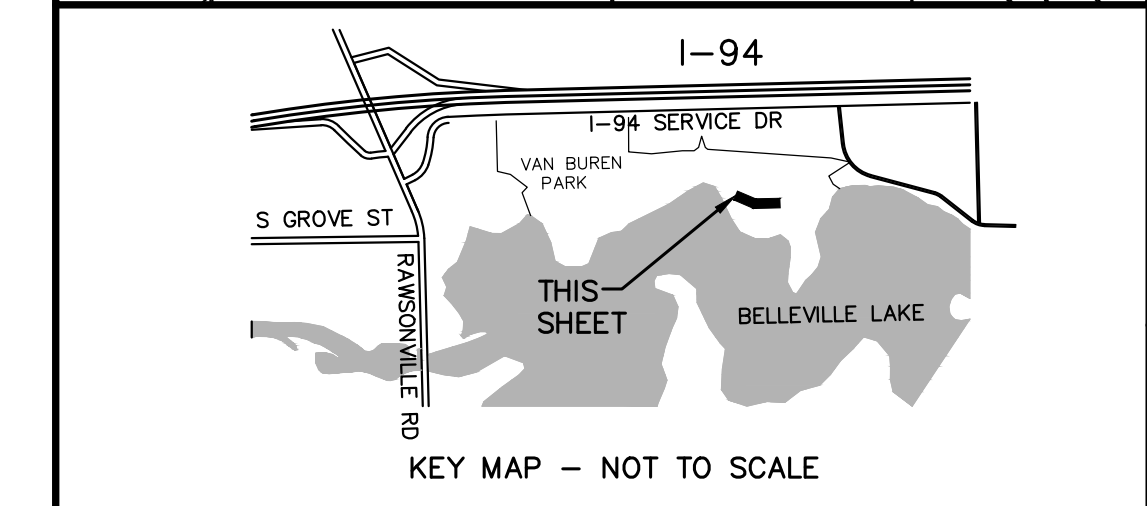
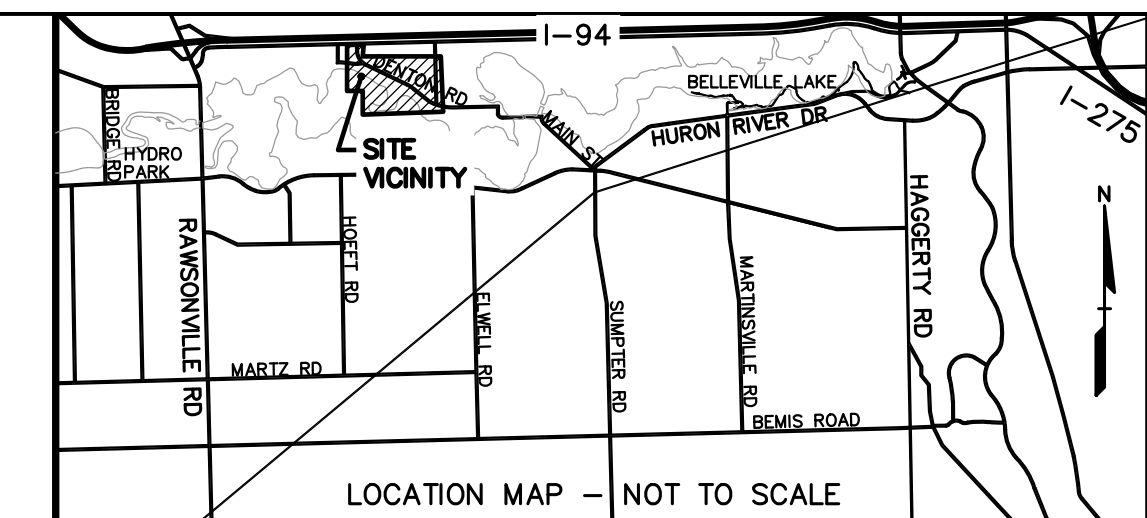
GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

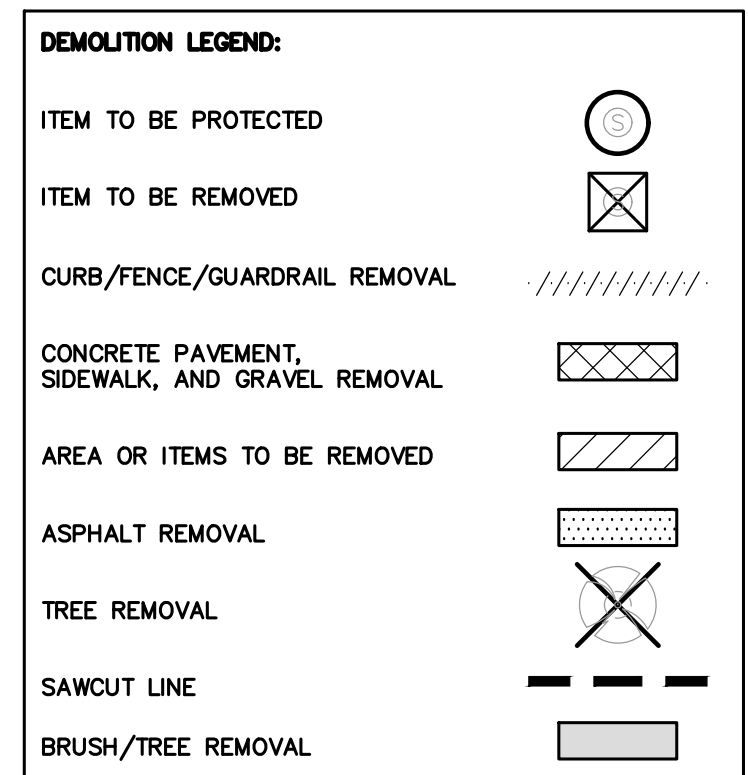
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 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. NOTE TREE STUMPS ARE TO BE GROUND WHEN LOCATED UNDERNEATH THE SIDEWALK/BITUMINOUS PATH.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- 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.
- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
- 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.)
- 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.
- 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.

NOTE:

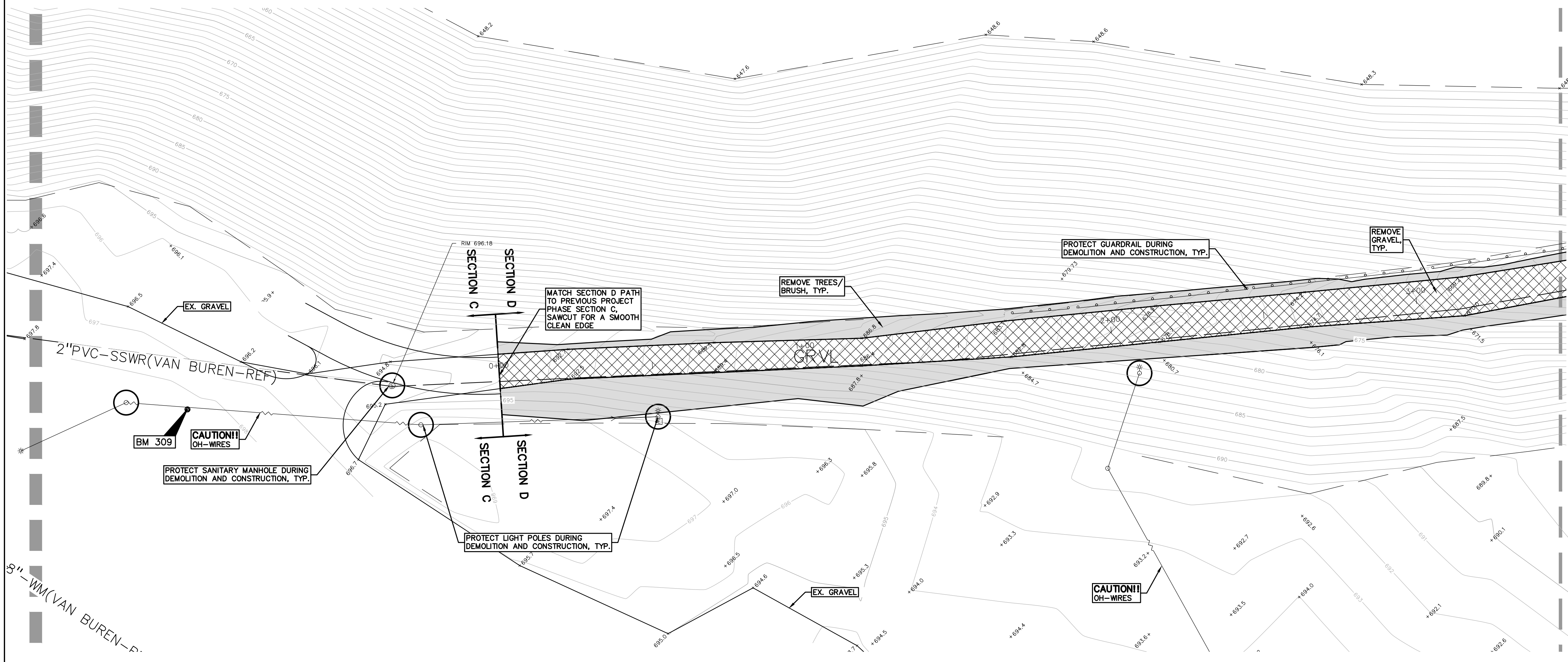
EXPLORATORY EXCAVATION OF THE SANITARY SEWER FORCE MAIN IS TO OCCUR PRIOR TO ANY OTHER WORK. CONTRACTOR IS TO REVIEW PROPOSED DEPTH, AND LOCATION OF THE FORCE MAIN IN REGARDS TO THE PROPOSED BRIDGE FOUNDATION/WALLS. ALL CONFLICTS MUST BE RESOLVED WITH ENGINEER AND TOWNSHIP DPS PRIOR TO ORDERING MATERIALS OR ANY REMOVALS.



BENCHMARKS
(GPS DERIVED - NAVD 88)
BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256' NORTHWEST OF NORTHWEST CORNER. ELEV. = 698.59



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 261630333E & 261630334E DATED FEBRUARY, 02, 2012.



TRAIL PLAN VIEW

NO.	DATE	BY	CHKD	DESCRIPTION
1	11/19/21	JMR	JW	ISSUED FOR PERMITS
2	11/19/21	JMR	JW	ISSUED FOR PERMITS

NO.	DATE	BY	CHKD	DESCRIPTION
1	11/19/21	JMR	JW	ISSUED FOR PERMITS
2	11/19/21	JMR	JW	ISSUED FOR PERMITS

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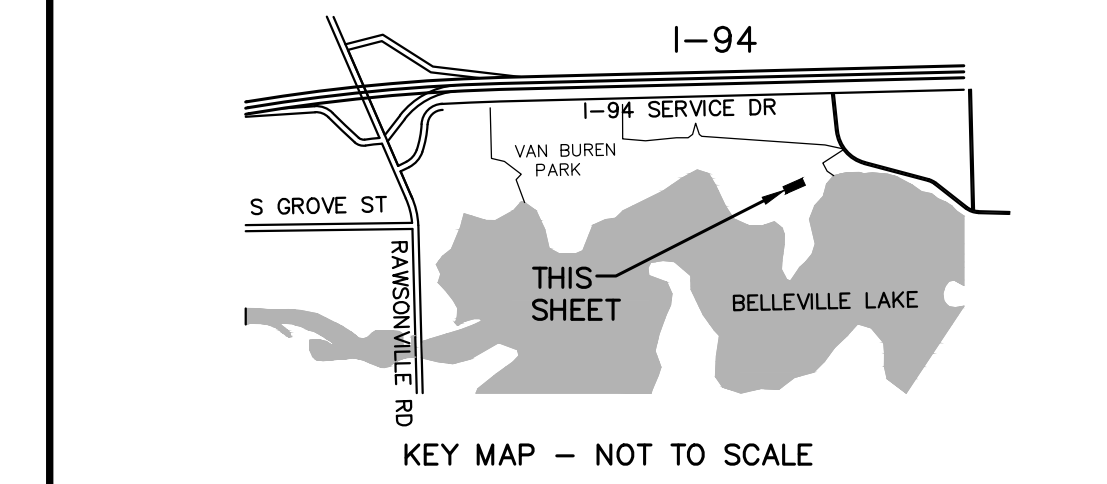
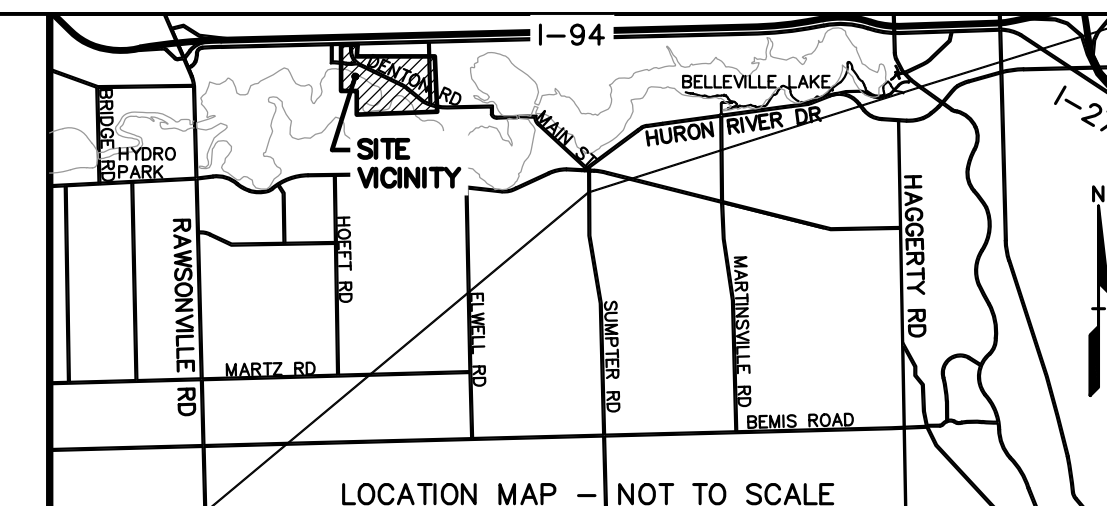
PEA GROUP
t: 844.813.2949
www.peagroup.com

VAN BUREN TOWNSHIP	DES.	JMR	DN.	JW	SUR.	JW	P.M.	US
48425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111								
TOPO SURVEY AND DEMO PLAN IRON BELLE TRAIL-SECTION D								
								ORIGINAL ISSUE DATE: MARCH 19, 2021
								PEA JOB NO. 2019-369
								SCALE: 1" = 20'
								DRAWING NUMBER: C-2.1

NOT FOR CONSTRUCTION
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPBASE.DWG
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLK-19369.DWG

NOTE:
EXPLORATORY EXCAVATION OF THE SANITARY SEWER FORCE MAIN IS TO OCCUR PRIOR TO ANY OTHER WORK. CONTRACTOR IS TO REVIEW PROPOSED DEPTH, AND LOCATION OF THE FORCE MAIN IN REGARDS TO THE PROPOSED BRIDGE FOUNDATION/WALLS. CONTRACTOR SHALL ASSUME 4 LOCATIONS (2 EA. SIDE) AT A DEPTH OF 10' MAX. ALL CONFLICTS MUST BE RESOLVED PRIOR TO ORDERING OF MATERIALS OR ANY REMOVALS.

NOTE:
FORCE MAIN WILL BE PLACED OUT OF SERVICE IN THE FALL/WINTER. CONTRACTOR TO PERFORM EXPLORATORY EXCAVATION DURING THIS TIME. IF DELAY OCCURS, BY PASS PUMPING WILL BE CONSIDERED INCIDENTAL TO THE EXPLORATORY EXCAVATION PAY ITEM.



REVISIONS	
1.	BY JMR FOR REVISIONS
2.	BY JMR FOR REVISIONS
3.	BY JMR FOR REVISIONS

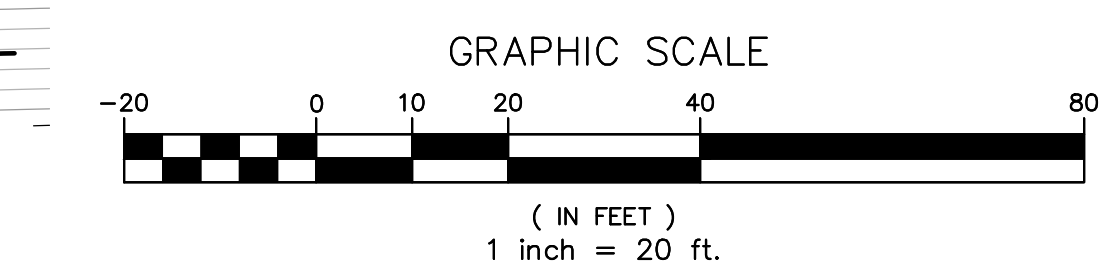
LEGEND

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⊗ IRON SET	⊗ MONUMENT SET	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC-VV-○ ELEC. PHONE OR CABLE TV OH. LINE, POLE & GUY WIRE
- UG-CATV-○ UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE-○ TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC-○ ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
- 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 & RECTANG. CATCH BASIN, TYP. DRAIN
- POST INDICATOR VALVE
- WATER VALVE, BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MALBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN

CONC. CONCRETE
ASPH. ASPHALT
GRAVEL GRAVEL SHOULDER
WETLAND WETLAND



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	○
ITEM TO BE REMOVED	⊗
CURB/FENCE/GUARDRAIL REMOVAL	////
CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL	⊗
AREA OR ITEMS TO BE REMOVED	▨
ASPHALT REMOVAL	⊗
TREE REMOVAL	⊗
SAWCUT LINE	---
BRUSH/TREE REMOVAL	▨

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TOPO SURVEY AND DEMO PLAN
IRON BELLE TRAIL-SECTION D

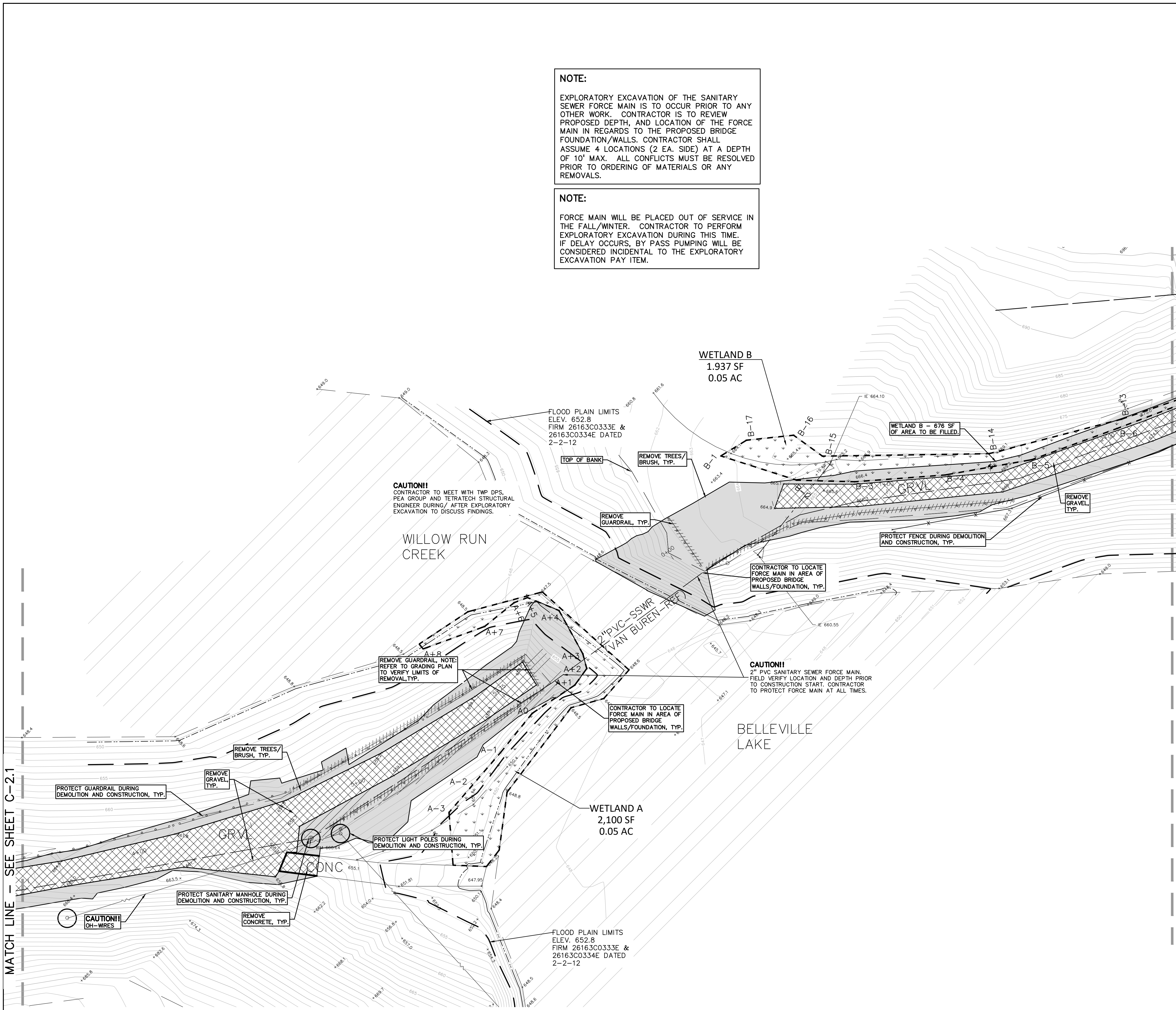
DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-2.2



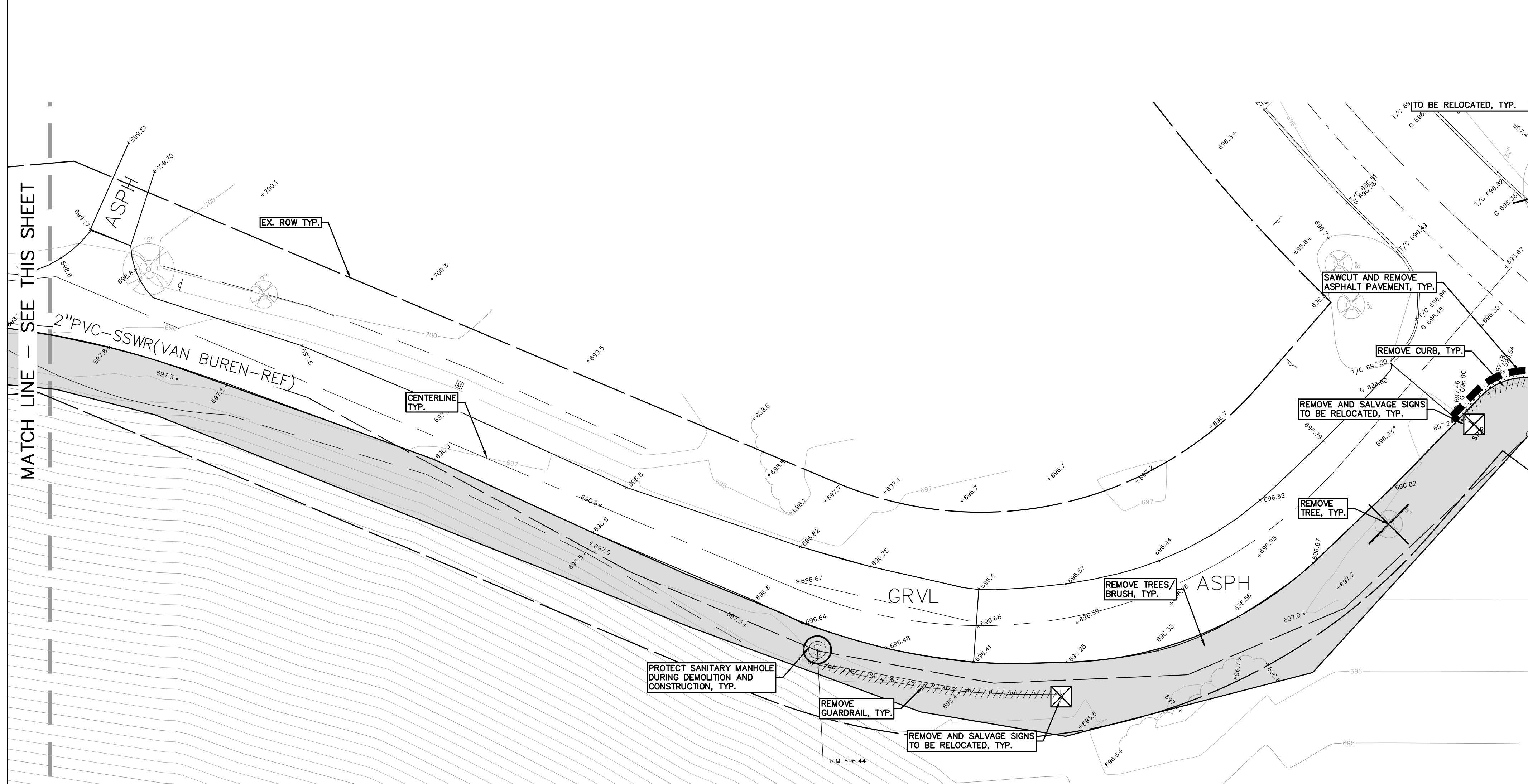
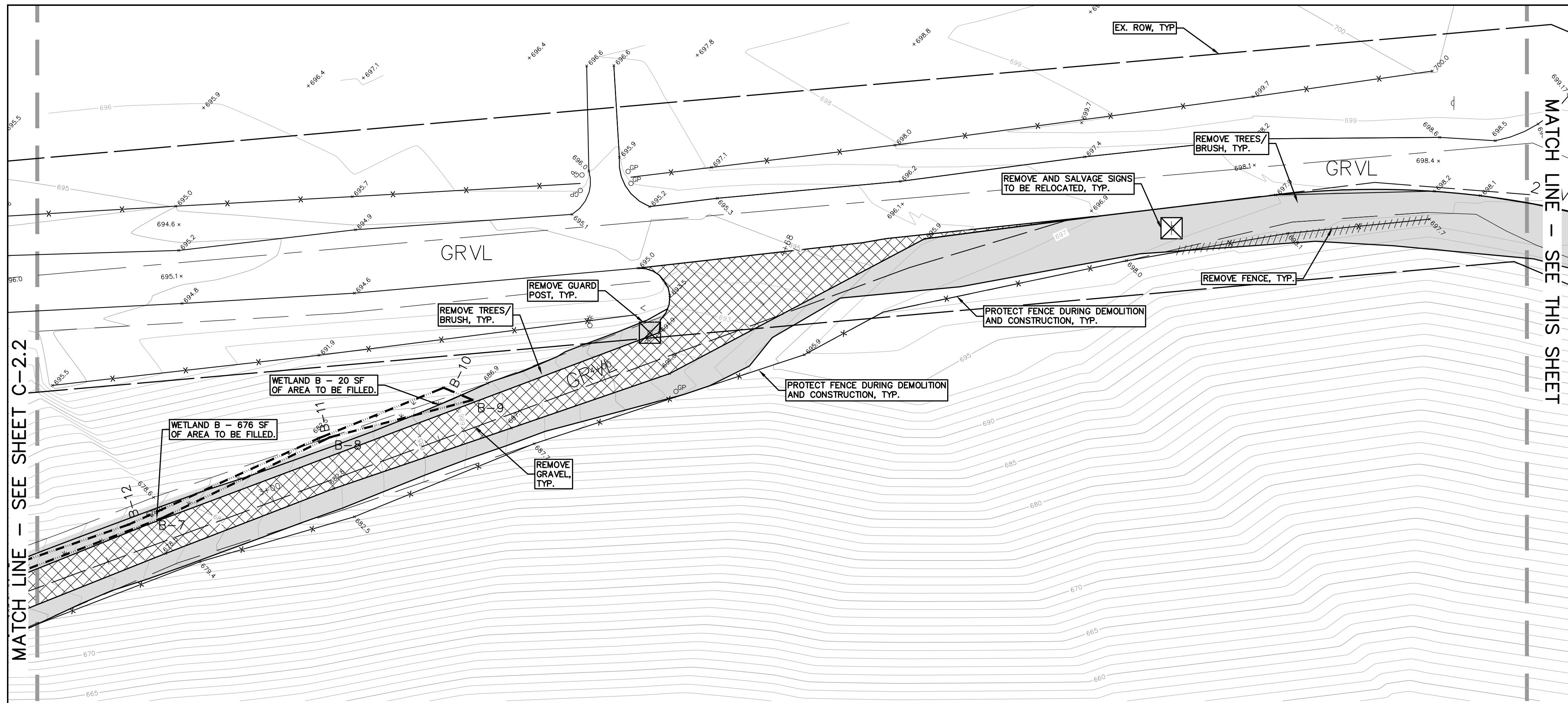
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MATCH LINE - SEE SHEET C-2.3

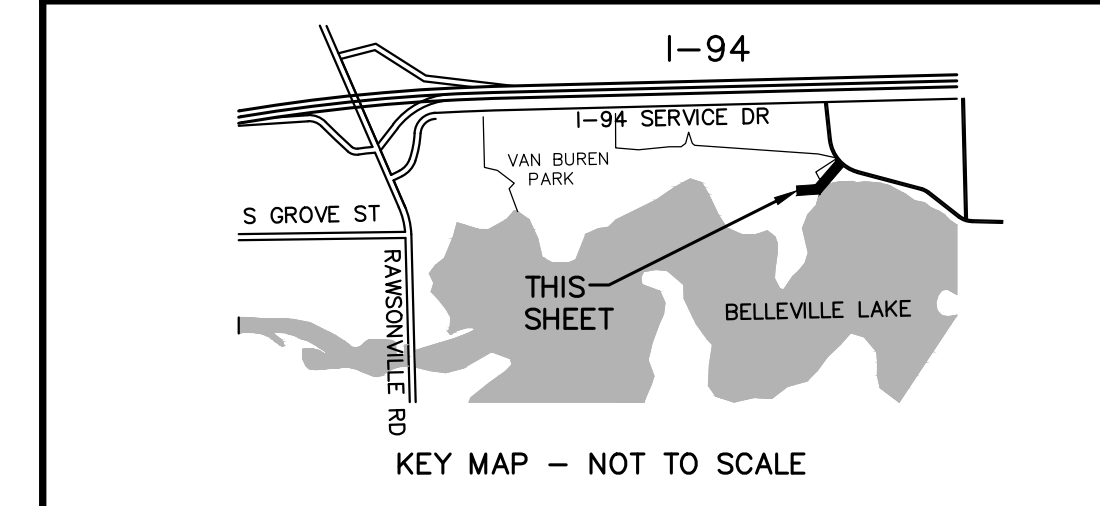
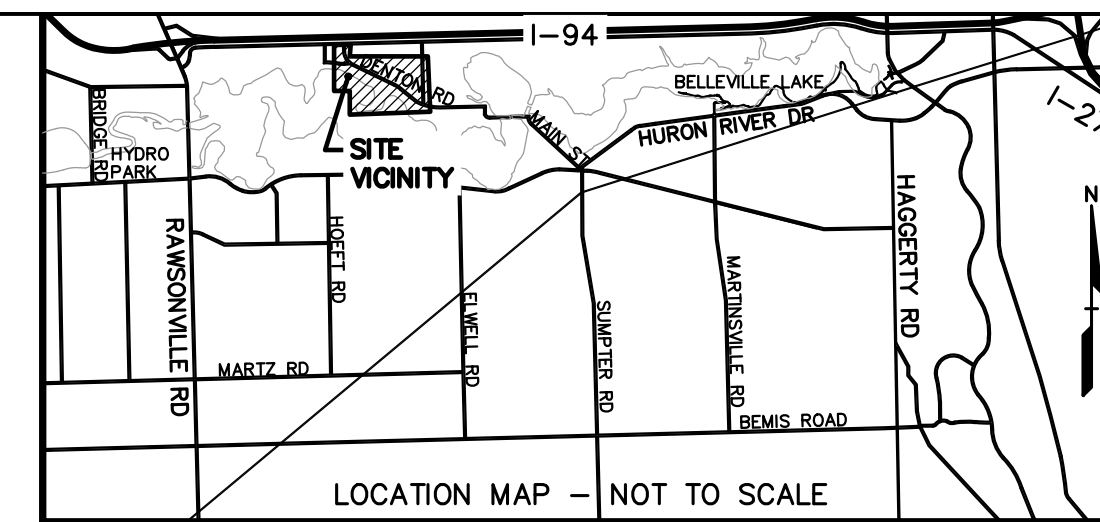
TRAIL PLAN VIEW

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TRAIL PLAN VIEW



LEGEND

● IRON FOUND	⊗ BRASS FLAG SET	⊕ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT SET	⊗ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊗ MEASURED
⊗ NAIL & CAP SET	⊗ MONUMENT SET	⊗ CALCULATED

EXISTING

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- UG-CATV— ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
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- GAS— GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & RECTANGULAR CATCH BASIN, TANK DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE

SPOT ELEVATION

CONTOUR LINE

FENCE

GUARD RAIL

STREET LIGHT

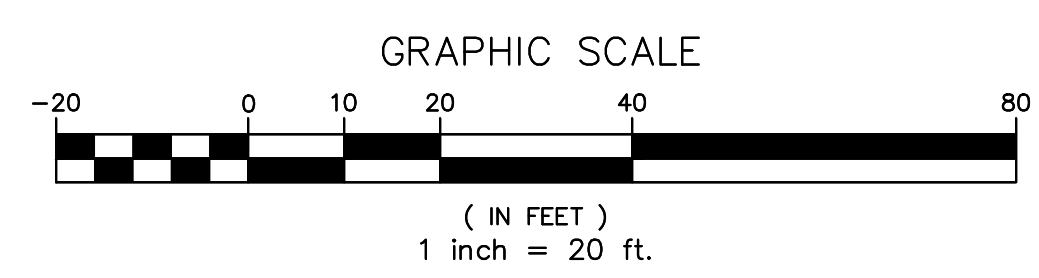
SIGN

CONC. CONCRETE

ASPH. ASPHALT

GRAVEL GRAVEL SHOULDER

WETLAND



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊗
ITEM TO BE REMOVED	⊗
CURB/FENCE/GUARDRAIL REMOVAL	////
CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL	XXXX
AREA OR ITEMS TO BE REMOVED	
ASPHALT REMOVAL	XXXX
TREE REMOVAL	⊗
SAWCUT LINE	— · — · —
BRUSH/TREE REMOVAL	

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 261630333E & 261630334E DATED FEBRUARY, 02, 2012.

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NO.	DATE	BY	CHKD	DESCRIPTION
1	11/19/20	JMR	JMR	ISSUED FOR PERMIT
2	03/19/21	JMR	JMR	WPC REVISIONS
3	03/19/21	JMR	JMR	FINAL WPC REVISIONS

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IRON BELLE TRAIL-SECTION D

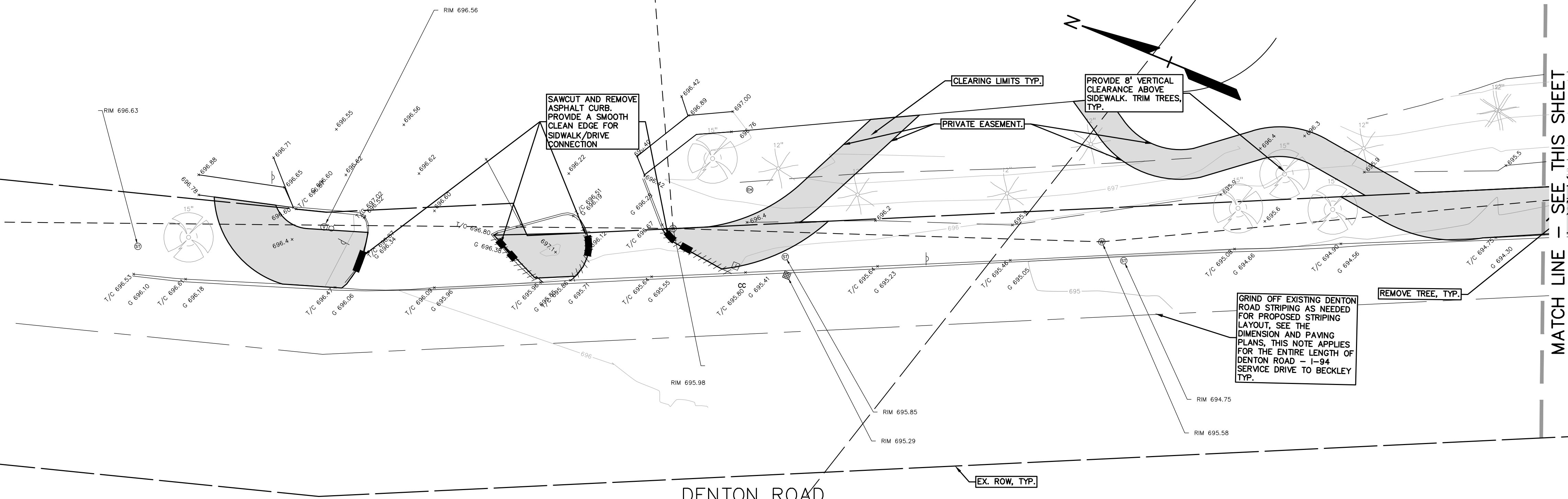
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ORIGINAL ISSUE DATE:
 MARCH 19, 2021

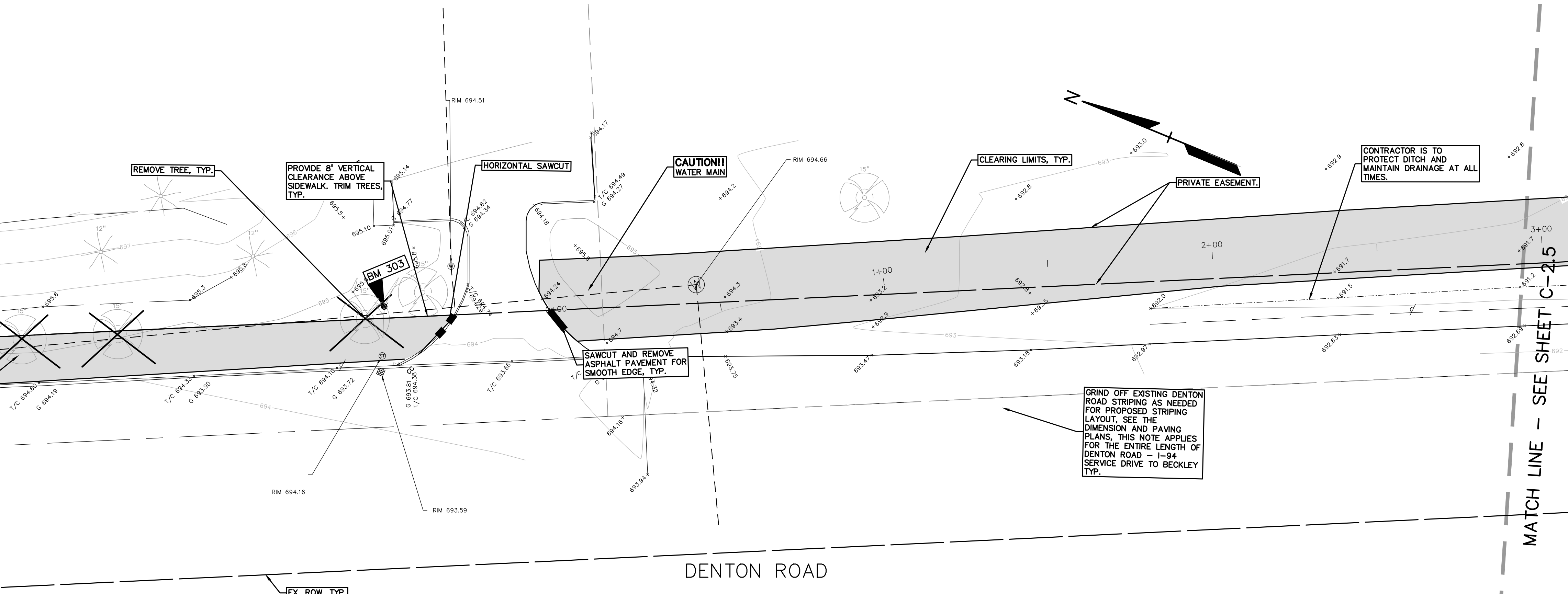
PEA JOB NO. 2019-369

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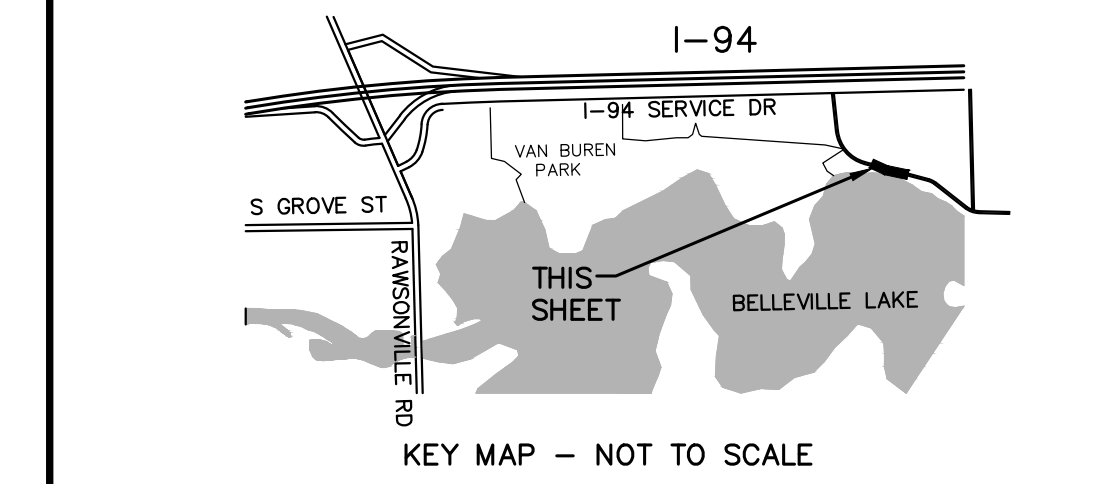
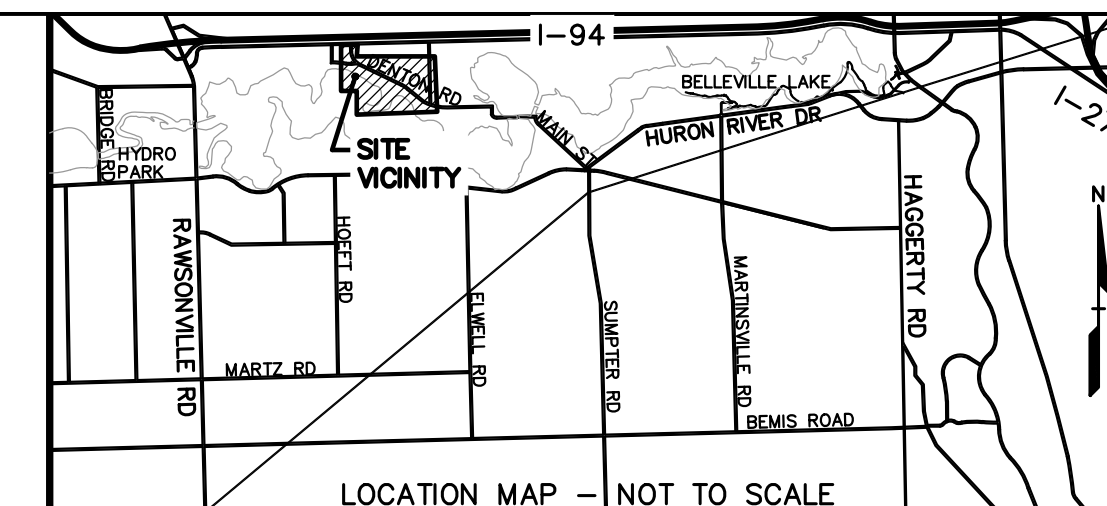
DRAWING NUMBER:
C-2.3



DENTON ROAD BIKE LANE AND SIDEWALK
PLAN VIEW



DENTON ROAD BIKE LANE/SHARROW AND
SIDEWALK PLAN VIEW



LEGEND

● IRON FOUND	○ BRASS FLAG SET	● SEC. CORNER FOUND
○ IRON SET	○ MONUMENT FOUND	○ RECORDED
○ NAIL FOUND	○ MONUMENT SET	○ MEASURED
○ NAIL & CAP SET		○ CALCULATED

EXISTING

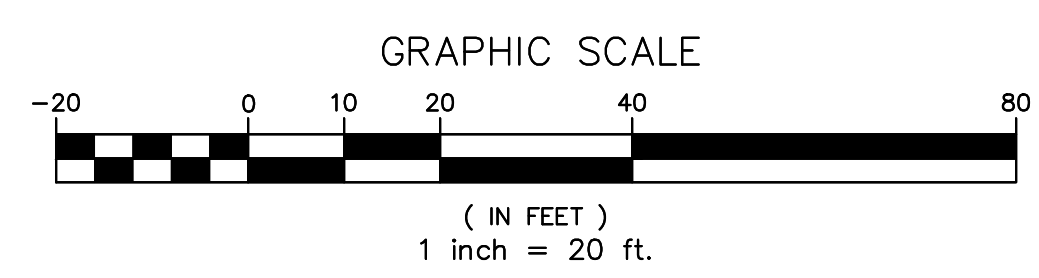
- OH-ELEC-VV — ELEC. PHONE OR CABLE TV OH. LINE, POLE & GUY WIRE
- UG-CATV — UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-UG-PHONE — ELECTRIC U.G. CABLE, MANHOLE, WETER & MANHOLE
- UG-ELEC — GAS MAIN, VALVE & GAS LINE MARKER
- W — WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- S — SANITARY SEWER, CLEANOUT & MANHOLE
- ST — STORM SEWER, CLEANOUT & MANHOLE
- CS — COMBINED SEWER & MANHOLE
- S&W — SQUARE, ROUND & BEHVE CATCH BASIN, TAND DRAIN
- P — POST INDICATOR VALVE
- W — WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- M — MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- U — UNIDENTIFIED STRUCTURE

SPOT ELEVATION

CONTOUR LINE

FINISH

- CONC. — CONCRETE
- ASPH. — ASPHALT
- GRAVEL — GRAVEL SHOULDER
- W — WETLAND



DEMOLITION LEGEND:

- ITEM TO BE PROTECTED: [Symbol]
- ITEM TO BE REMOVED: [Symbol]
- CURB/FENCE/GUARDRAIL REMOVAL: [Symbol]
- CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL: [Symbol]
- AREA OR ITEMS TO BE REMOVED: [Symbol]
- ASPHALT REMOVAL: [Symbol]
- TREE REMOVAL: [Symbol]
- SAWCUT LINE: [Symbol]
- BRUSH/TREE REMOVAL: [Symbol]

REVISIONS	
1.	BY: JMR DATE: 01-10-20
2.	BY: JMR DATE: 01-10-20

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TOPO SURVEY AND DEMO PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JWR P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

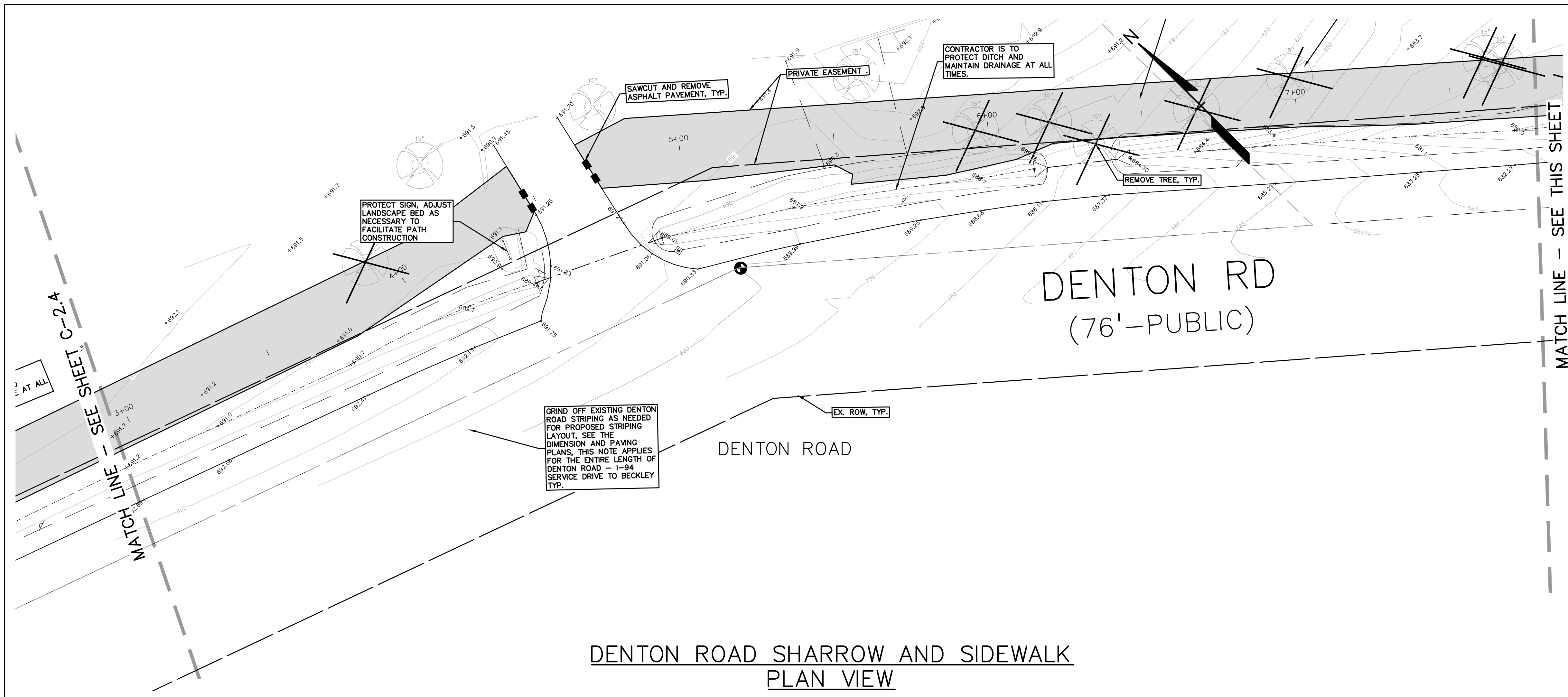
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DRAWING NUMBER:
C-2.4

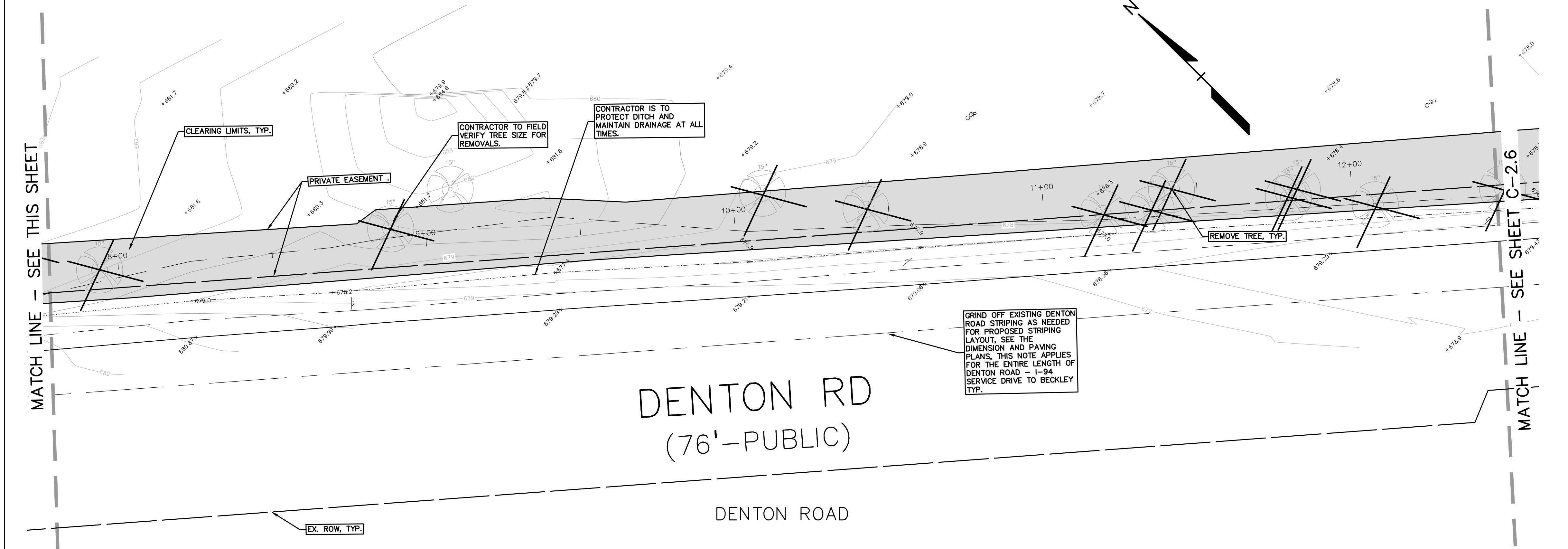
FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 261630333E & 261630334E DATED FEBRUARY, 02, 2012.

NOT FOR CONSTRUCTION

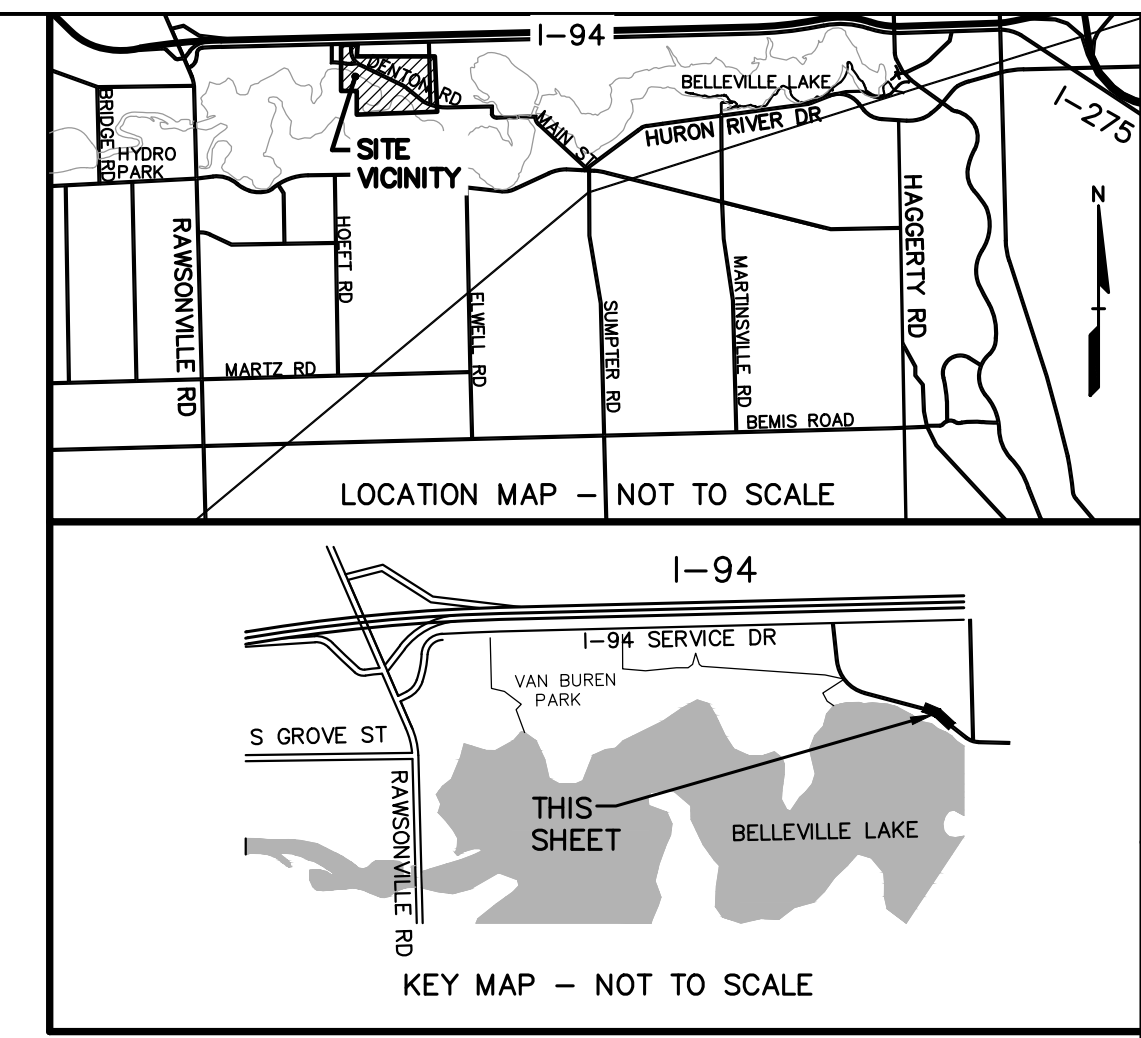
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DENTON ROAD SHARROW AND SIDEWALK PLAN VIEW



DENTON ROAD SHARROW AND SIDEWALK PLAN VIEW



LEGEND

● IRON FOUND	⊗ BRASS FLAG SET	⊕ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊗ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊗ MEASURED
⊗ NAIL & CAP SET	⊗ CALCULATED	⊗ C CALCULATED

EXISTING

— OH-ELEC—VV—	ELEC. PHONE OR CABLE TV OH. LINE, POLE & GUY WIRE
— OH-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
— UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
— UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, WETTER & HANDHOLE
— GAS—	GAS MAIN, VALVE & GAS LINE MARKER
— WATER—	WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
— SANITARY—	SANITARY SEWER, CLEANOUT & MANHOLE
— STORM—	STORM SEWER, CLEANOUT & MANHOLE
— COMBINED—	COMBINED SEWER & MANHOLE
— SQUARE, ROUND & RECTANGULAR—	SQUARE, ROUND & RECTANGULAR CATCH BASIN, TYPED DRAIN
— POST—	POST INDICATOR VALVE
— WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
— MALBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
— UNIDENTIFIED STRUCTURE	

SPOT ELEVATION
816.06

CONTOUR LINE
670

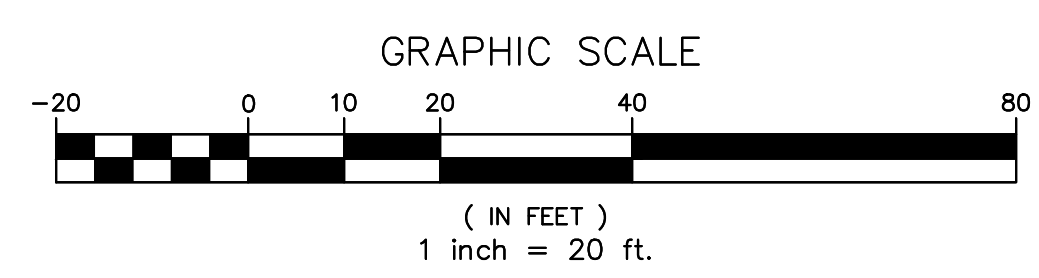
FENCE
GUARD RAIL
STREET LIGHT
SIGN

CONCRETE
CONCRETE

ASPHALT
ASPHALT

GRAVEL SHOULDER
GRAVEL SHOULDER

WETLAND
WETLAND



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊗
ITEM TO BE REMOVED	⊗
CURB/FENCE/GUARDRAIL REMOVAL	////
CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL	XXXX
AREA OR ITEMS TO BE REMOVED	
ASPHALT REMOVAL	XXXX
TREE REMOVAL	⊗
SAWCUT LINE	---
BRUSH/TREE REMOVAL	

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 261630333E & 261630334E DATED FEBRUARY, 02, 2012.

NOT FOR CONSTRUCTION

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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPOBASE.DWG
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REVISIONS

NO.	DATE	BY	REVISIONS
1	11/19/20	JMR	ISSUE FOR PERMIT
2	03/19/21	JMR	REVISED FOR PERMIT

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TOPO SURVEY AND DEMO PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JWR P.M. US
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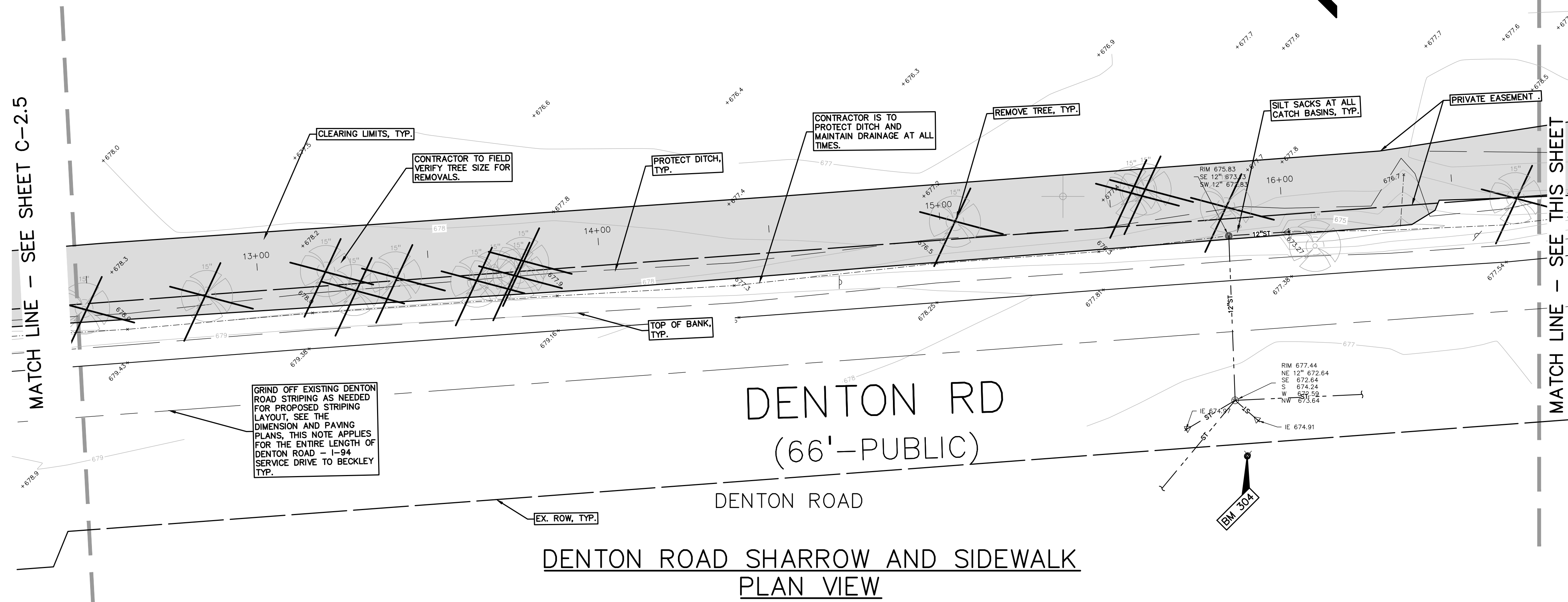
ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

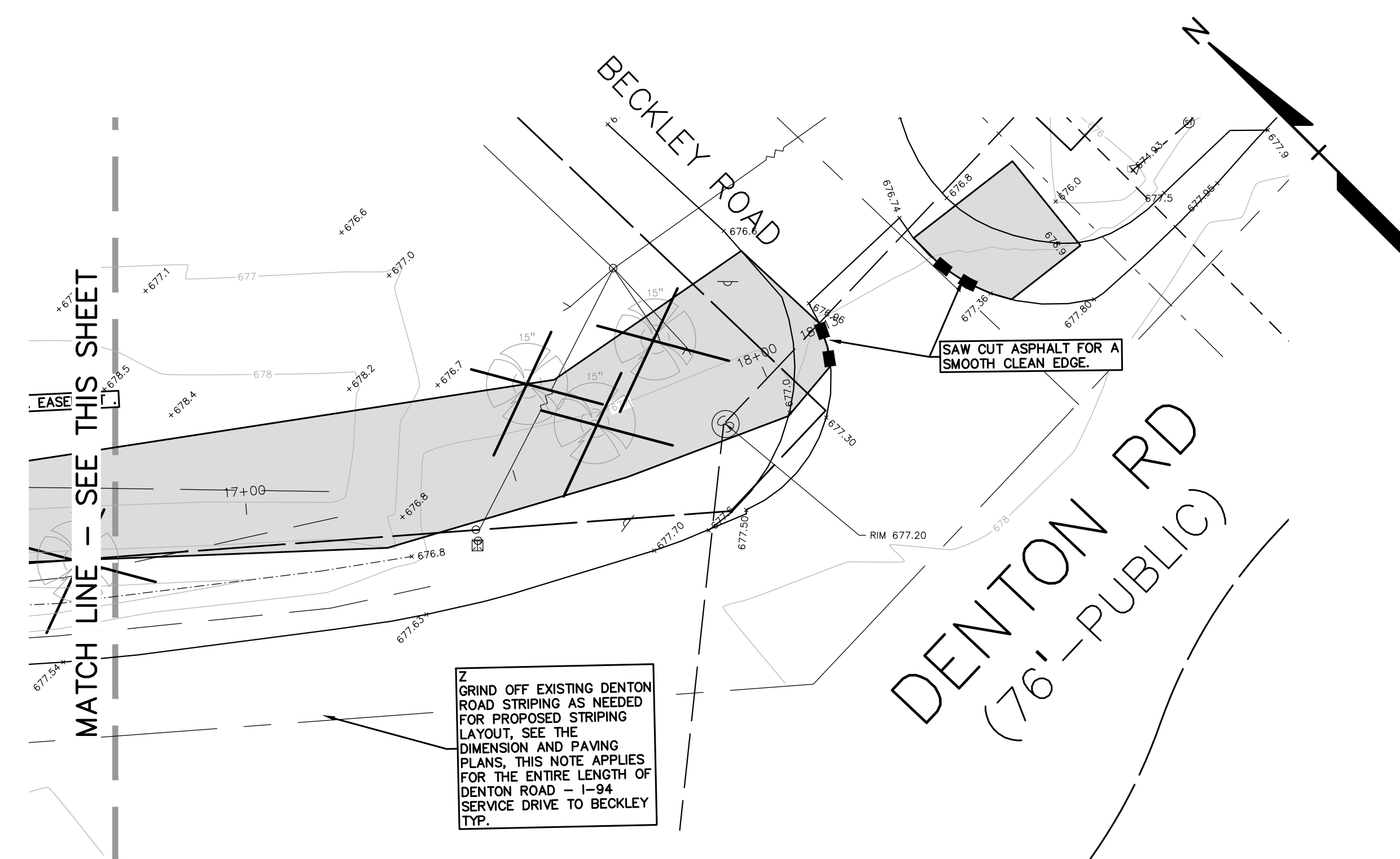
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DRAWING NUMBER:
C-2.5

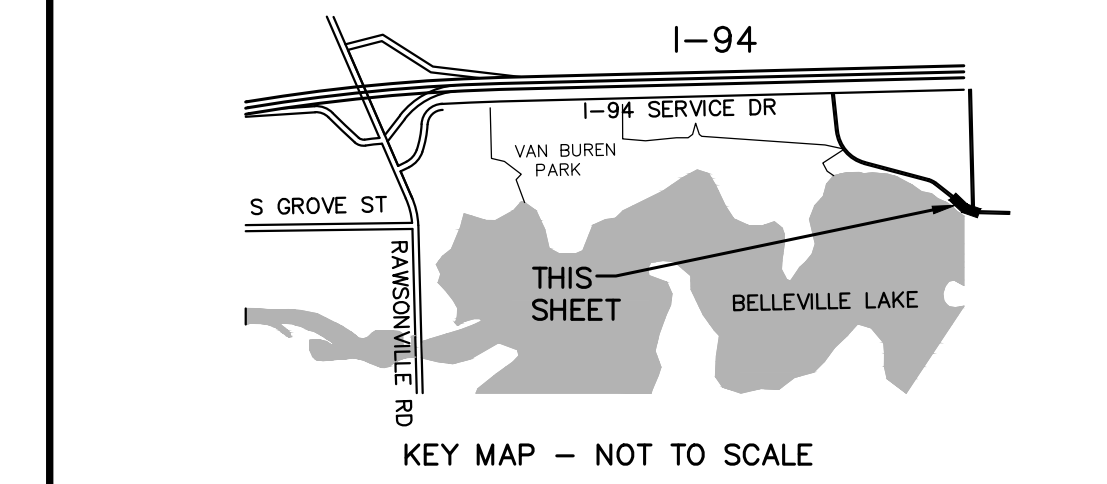
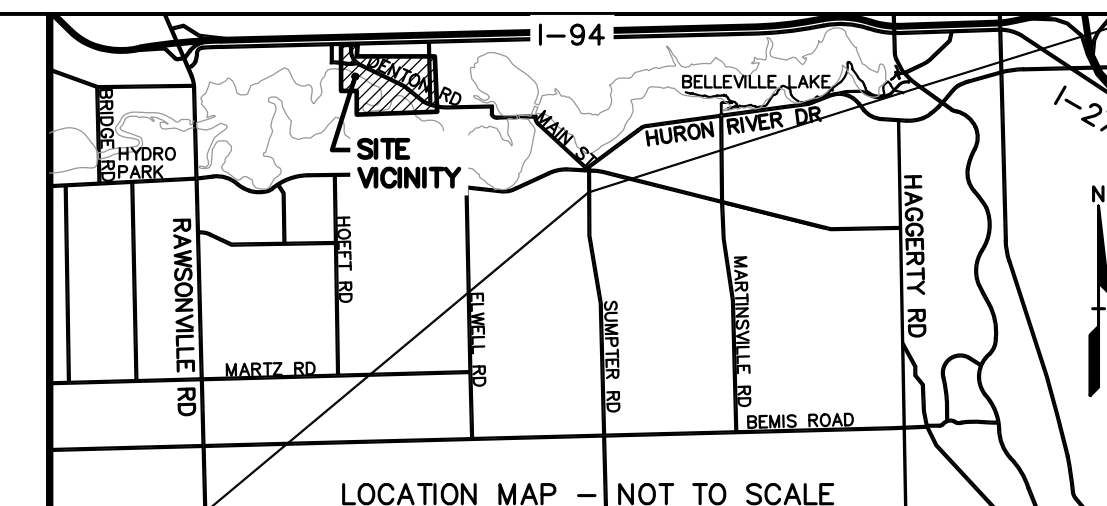
MATCH LINE - SEE SHEET C-2.5



DENTON RD
(66'-PUBLIC)
DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



LEGEND

● IRON FOUND	○ BRASS FLAG SET	● SEC. CORNER FOUND
○ IRON SET	○ MONUMENT FOUND	○ RECORDED
○ NAIL FOUND	○ MONUMENT SET	○ MEASURED
○ NAIL & CAP SET		○ CALCULATED

EXISTING

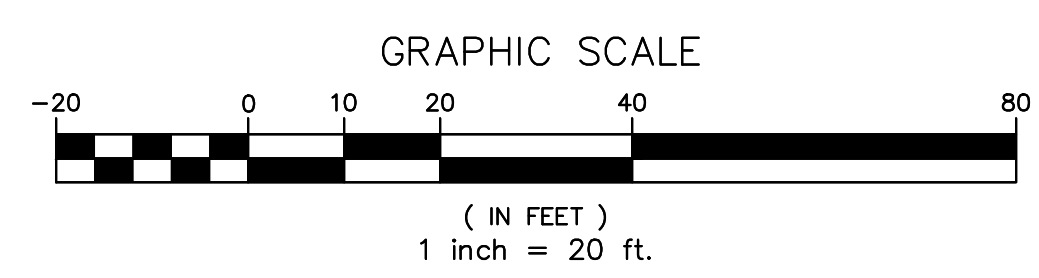
— OH-ELEC—VV—	ELEC. PHONE OR CABLE TV OH. LINE, POLE & GUY WIRE
— UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
— UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
— UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
— GAS—	GAS MAIN, VALVE & GAS LINE MARKER
— WTR—	WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
— S.S.—	SANITARY SEWER, CLEANOUT & MANHOLE
— S.S.—	STORM SEWER, CLEANOUT & MANHOLE
— S.S.—	COMBINED SEWER & MANHOLE
— S.S.—	SQUARE, ROUND & BEHVE CATCH BASIN, YARD DRAIN
— S.S.—	POST INDICATOR VALVE
— S.S.—	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
— S.S.—	MALBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
— S.S.—	UNIDENTIFIED STRUCTURE
— S.S.—	SPOT ELEVATION
— S.S.—	CONTOUR LINE
— S.S.—	FENCE
— S.S.—	GUARD RAIL
— S.S.—	STREET LIGHT
— S.S.—	SIEN

CONCRETE

ASPH.

GRAVEL SHOULDER

WETLAND



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	○
ITEM TO BE REMOVED	⊗
CURB/FENCE/GUARDRAIL REMOVAL	////
CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL	⊗
AREA OR ITEMS TO BE REMOVED	▨
ASPHALT REMOVAL	▨
TREE REMOVAL	⊗
SAWCUT LINE	— · — ·
BRUSH/TREE REMOVAL	▨

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 261630333E & 261630334E DATED FEBRUARY, 02, 2012.

REVISIONS

NO.	DATE	BY	REVISIONS
1	11/19/21	JMR	ISSUED FOR PERMITS
2	11/19/21	JMR	ISSUED FOR PERMITS

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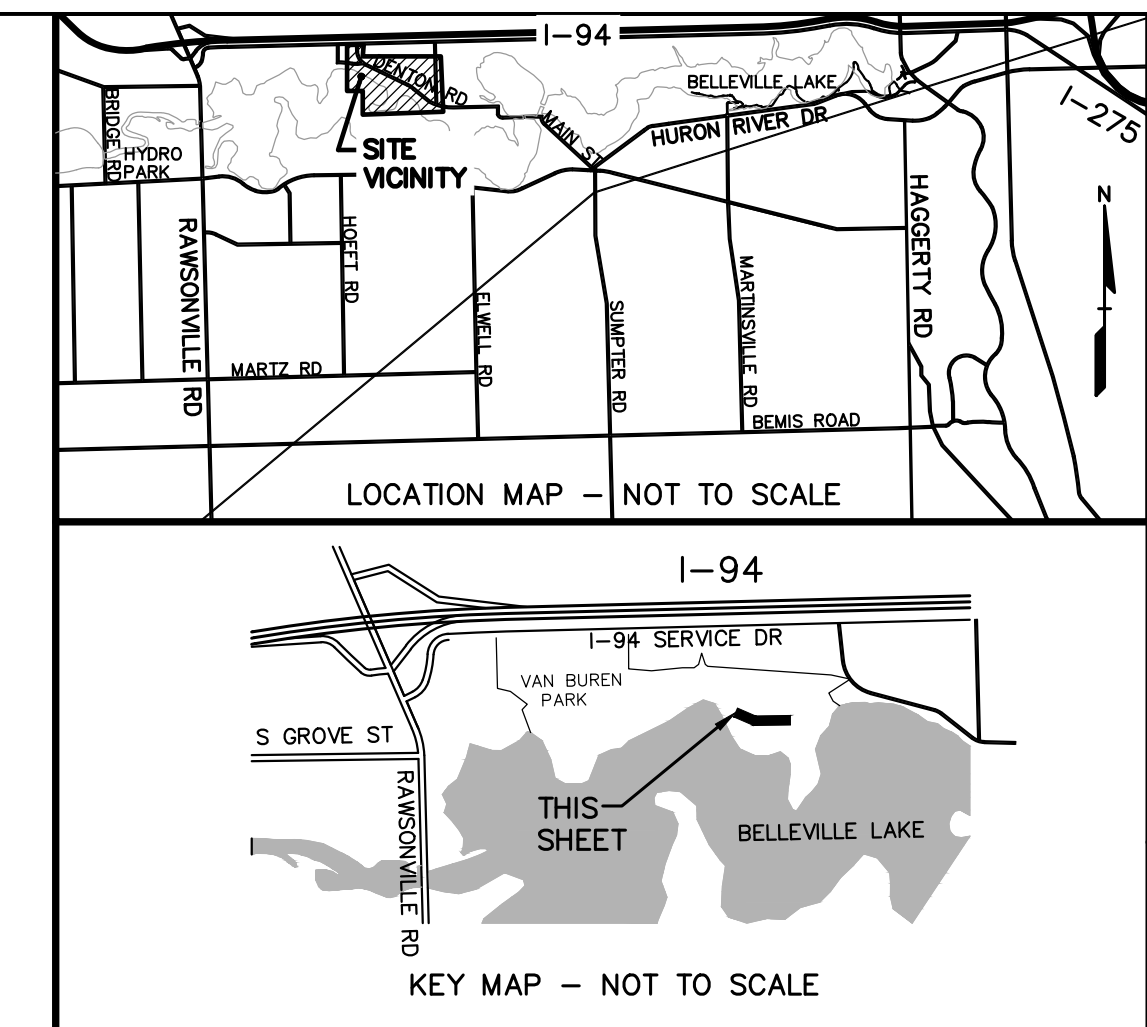
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TOPO SURVEY AND DEMO PLAN
IRON BELLE TRAIL-SECTION D
DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER:
C-2.6

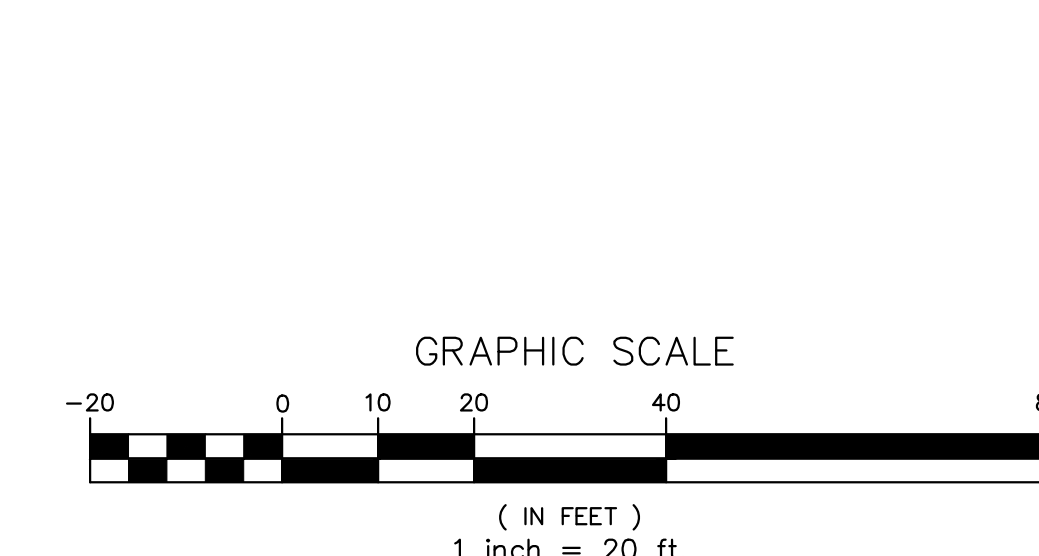
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD) SITE PLANS\19-369 VB PARKWAY PLANS\X-TLBK-19369.DWG



REVISIONS	
2	BY: JMR, WJC, REVISIONS
1	BY: JMR, WJC, REVISIONS

LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- GRAVEL
- RIP RAP
- WETLAND
- CONCRETE CURB AND GUTTER
- REVERSE GUTTER PAN
- SETBACK LINE
- SIGN
- LIGHTPOLE
- FENCE
- GUARD RAIL



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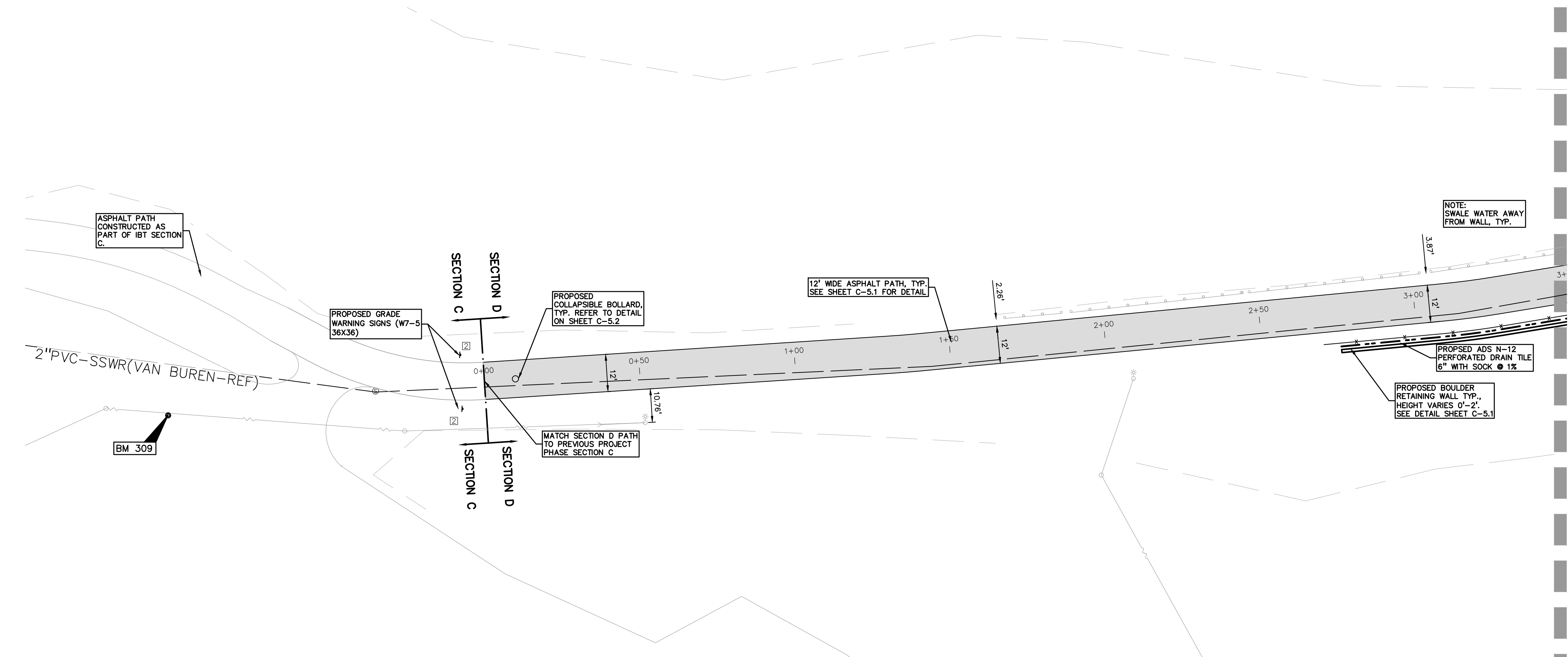
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48425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111		WAYNE COUNTY, MI							
LAYOUT AND STRIPING PLAN		IRON BELLE TRAIL-SECTION D							
ORIGINAL ISSUE DATE: MARCH 19, 2021		PEA JOB NO. 2019-369							
SCALE: 1"=20'		DRAWING NUMBER: C-3.1							

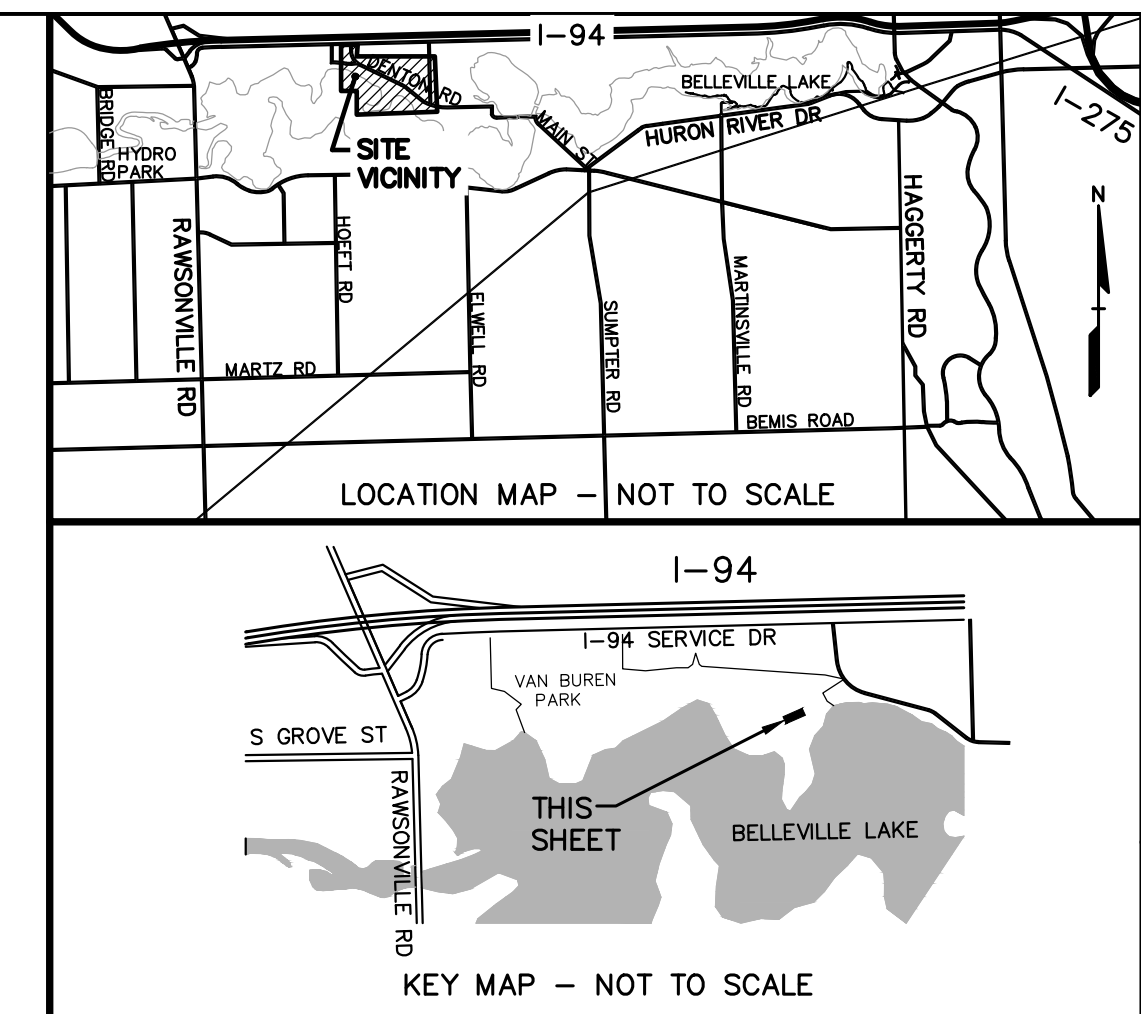


MATCH LINE - SEE SHEET C-3.2

TRAIL PLAN VIEW

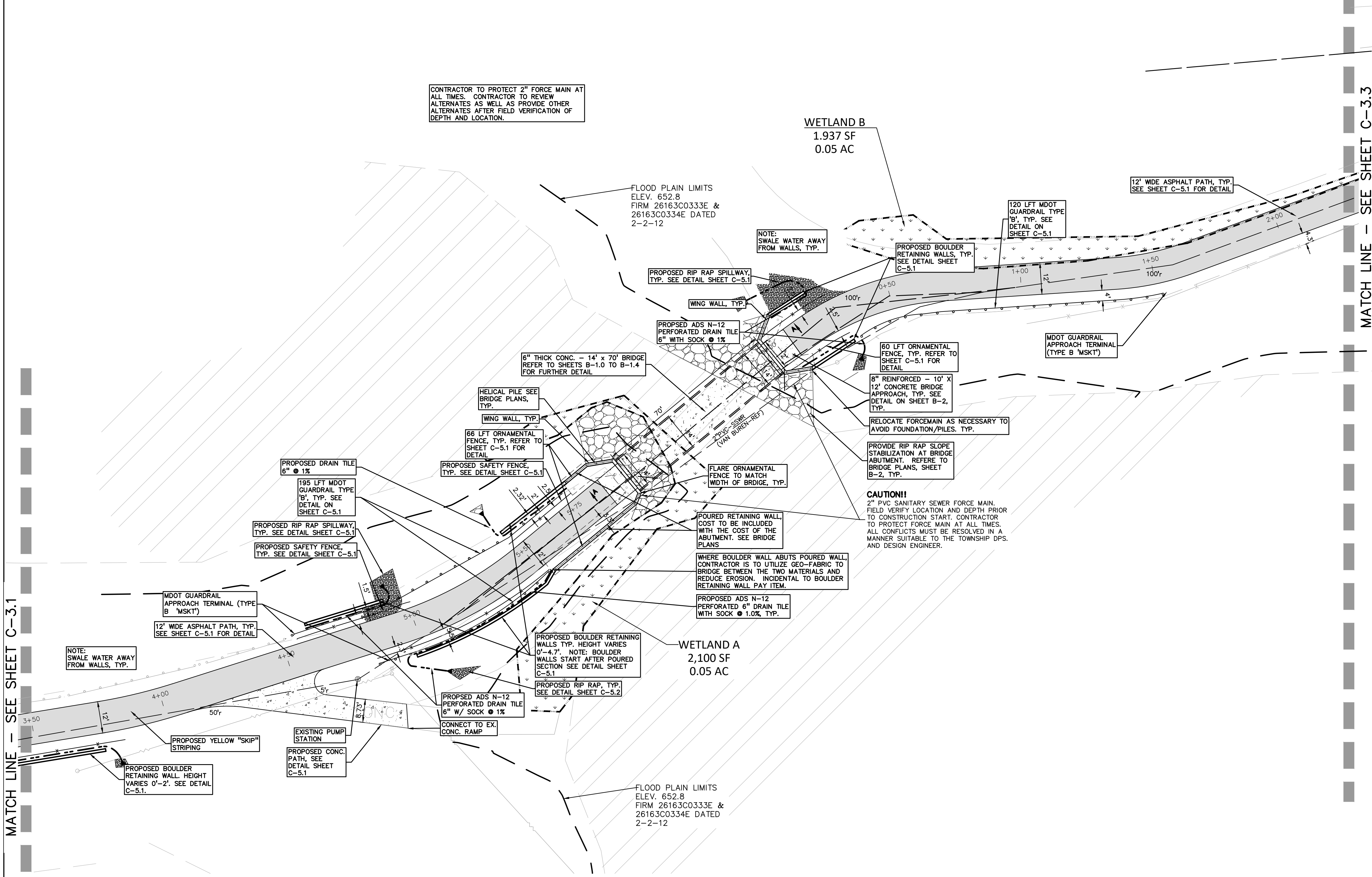
NOT FOR CONSTRUCTION

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\TOPOBASE.DWG
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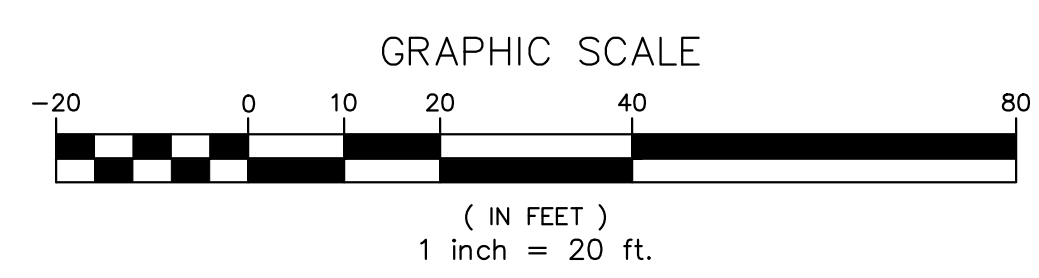
REVISIONS	
1.	1. E.P. [REDACTED]
2.	2. B.P. [REDACTED]
3.	3. W.P. [REDACTED]
4.	4. J.W. [REDACTED]
5.	5. J.M.R. [REDACTED]
6.	6. J.M.R. [REDACTED]
7.	7. J.M.R. [REDACTED]
8.	8. J.M.R. [REDACTED]
9.	9. J.M.R. [REDACTED]
10.	10. J.M.R. [REDACTED]
11.	11. J.M.R. [REDACTED]
12.	12. J.M.R. [REDACTED]
13.	13. J.M.R. [REDACTED]
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52.	52. J.M.R. [REDACTED]
53.	53. J.M.R. [REDACTED]
54.	54. J.M.R. [REDACTED]
55.	55. J.M.R. [REDACTED]
56.	56. J.M.R. [REDACTED]
57.	57. J.M.R. [REDACTED]
58.	58. J.M.R. [REDACTED]
59.	59. J.M.R. [REDACTED]
60.	60. J.M.R. [REDACTED]
61.	61. J.M.R. [REDACTED]
62.	62. J.M.R. [REDACTED]
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67.	67. J.M.R. [REDACTED]
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69.	69. J.M.R. [REDACTED]
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72.	72. J.M.R. [REDACTED]
73.	73. J.M.R. [REDACTED]
74.	74. J.M.R. [REDACTED]
75.	75. J.M.R. [REDACTED]
76.	76. J.M.R. [REDACTED]
77.	77. J.M.R. [REDACTED]
78.	78. J.M.R. [REDACTED]
79.	79. J.M.R. [REDACTED]
80.	80. J.M.R. [REDACTED]
81.	81. J.M.R. [REDACTED]
82.	82. J.M.R. [REDACTED]
83.	83. J.M.R. [REDACTED]
84.	84. J.M.R. [REDACTED]
85.	85. J.M.R. [REDACTED]
86.	86. J.M.R. [REDACTED]
87.	87. J.M.R. [REDACTED]
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89.	89. J.M.R. [REDACTED]
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94.	94. J.M.R. [REDACTED]
95.	95. J.M.R. [REDACTED]
96.	96. J.M.R. [REDACTED]
97.	97. J.M.R. [REDACTED]
98.	98. J.M.R. [REDACTED]
99.	99. J.M.R. [REDACTED]
100.	100. J.M.R. [REDACTED]

CONTRACTOR TO PROTECT 2" FORCE MAIN AT ALL TIMES. CONTRACTOR TO REVIEW ALTERNATES AS WELL AS PROVIDE OTHER ALTERNATES AFTER FIELD VERIFICATION OF DEPTH AND LOCATION.



LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- GRAVEL
- RIP RAP
- WETLAND
- CONCRETE CURB AND GUTTER
- REVERSE GUTTER PAN
- SETBACK LINE
- SIGN
- LIGHTPOLE
- FENCE
- GUARD RAIL



SIGN LEGEND:

'STOP' SIGN	1
W7-5	2
R3-17	3
W11-2	4
W16-7pL	5
W16-9p	6
REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS	

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)TDW\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)TDW\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPOBASE.DWG
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)TDW\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLX-19369.DWG

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LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

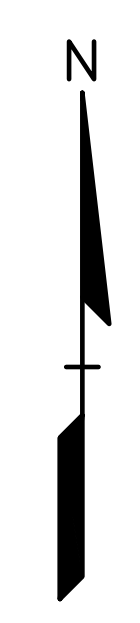
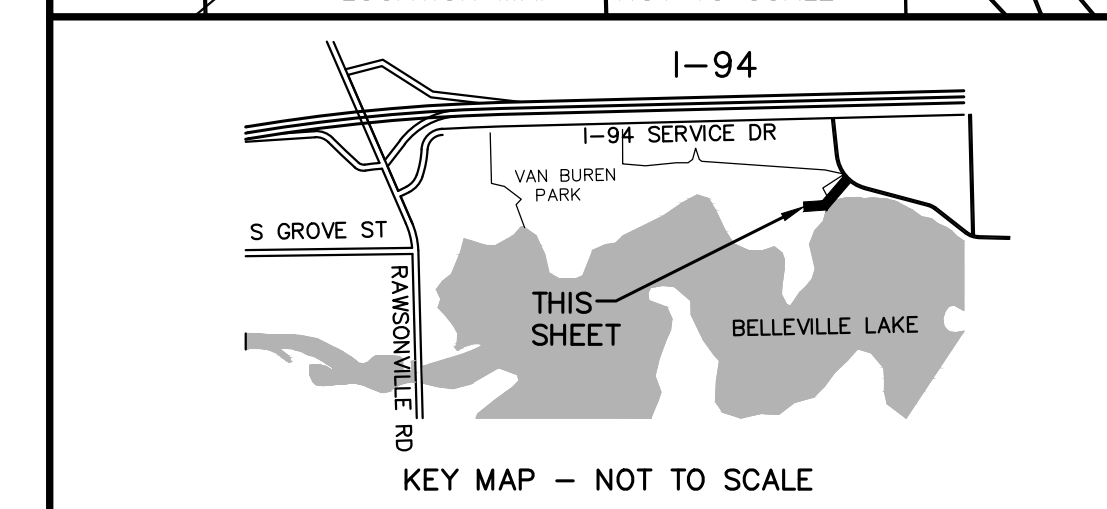
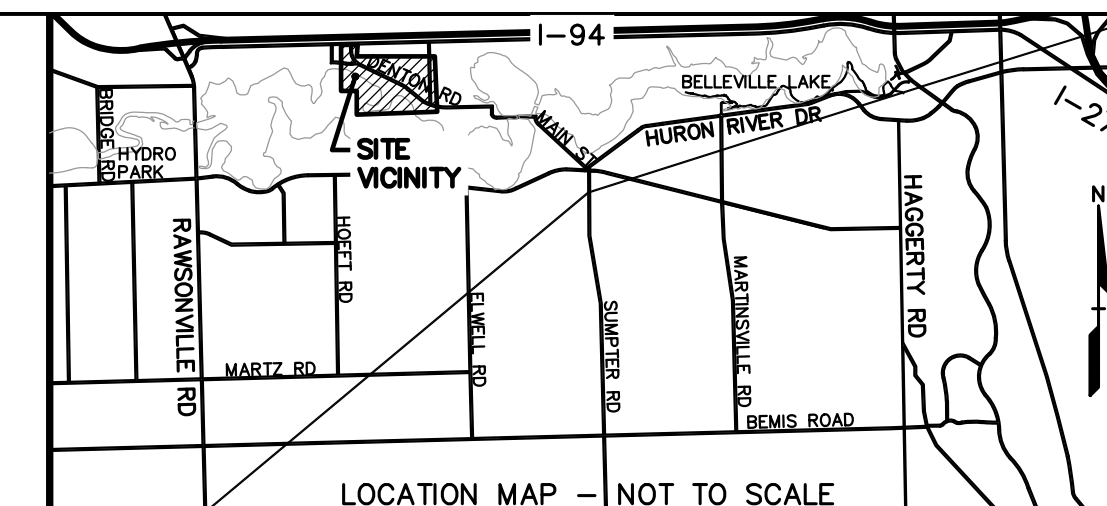
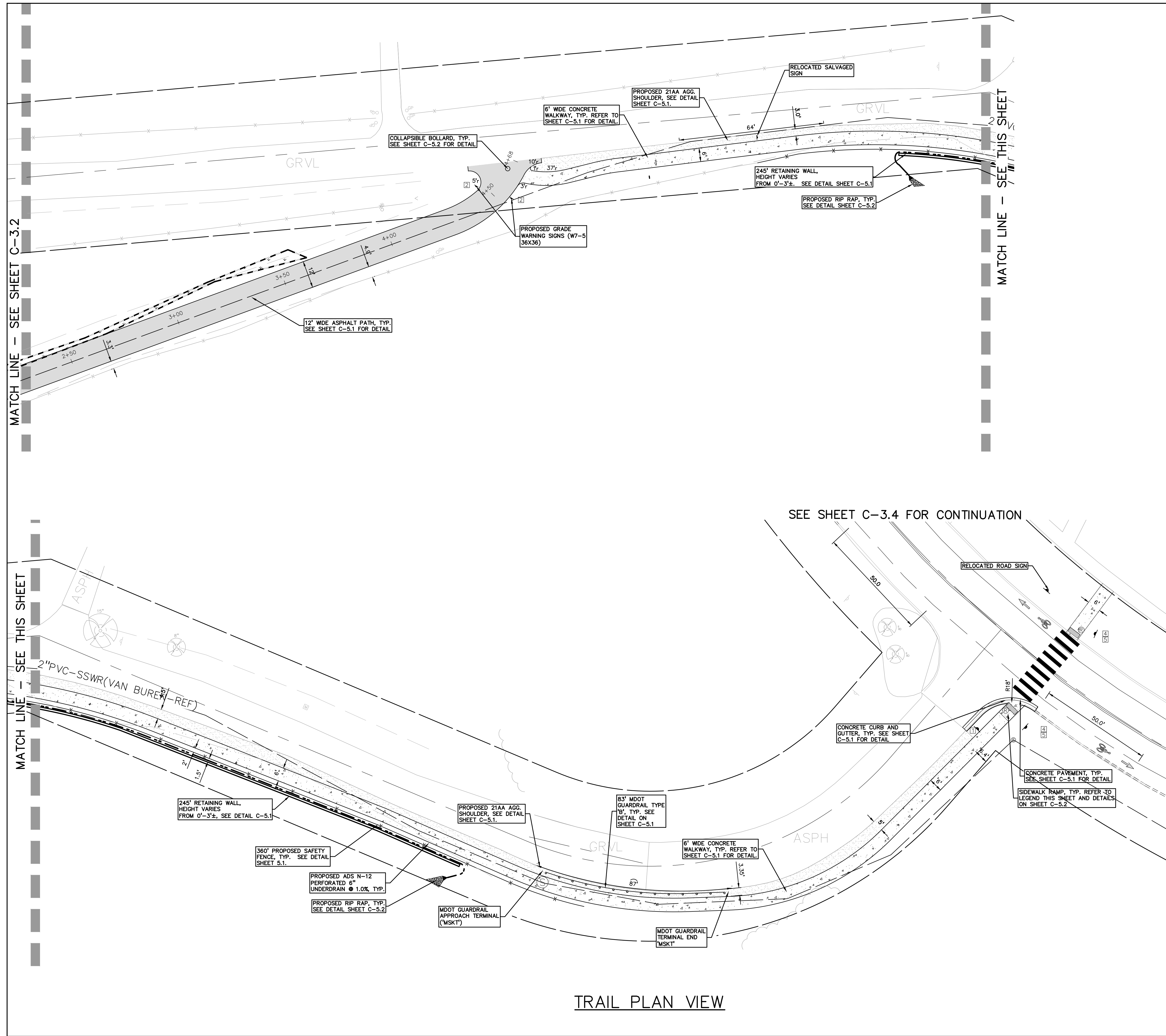
DES. JMR DN. SUR. JW P.M. US
S:\PROJECTS\2019\2019-369 VAN BUREN (B)TDW\SITE PLANS\19-369 VB PARKWAY-SECTION D\X-C-1.0 LAYOUT-19369.DWG

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

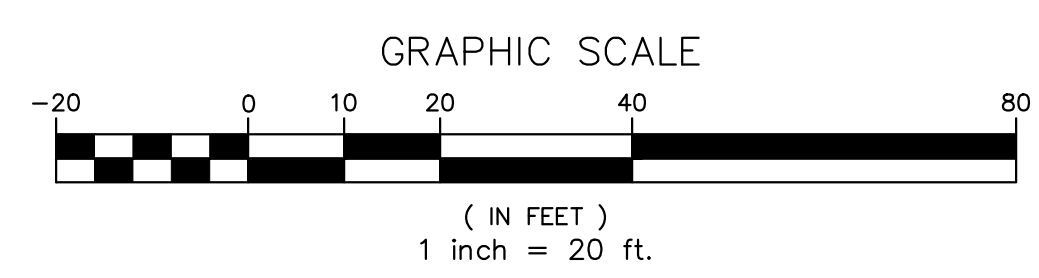
SCALE: 1" = 20'

DRAWING NUMBER:
C-3.2



LEGEND:

[Symbol]	CONCRETE PAVEMENT
[Symbol]	ASPHALT PAVEMENT
[Symbol]	GRAVEL
[Symbol]	RIP RAP
[Symbol]	WETLAND
[Symbol]	CONCRETE CURB AND GUTTER
[Symbol]	REVERSE GUTTER PAN
[Symbol]	SETBACK LINE
[Symbol]	SIGN
[Symbol]	LIGHTPOLE
[Symbol]	FENCE
[Symbol]	GUARD RAIL



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

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	[Symbol]
SIDEWALK RAMP 'TYPE F'	[Symbol]
SIDEWALK RAMP 'TYPE P'	[Symbol]
SIDEWALK RAMP 'TYPE C'	[Symbol]
SIDEWALK RAMP 'TYPE D'	[Symbol]
CURB DROP ONLY	[Symbol]

SIGN LEGEND:

'STOP' SIGN	[Symbol]
W7-5	[Symbol]
R3-17	[Symbol]
W11-2	[Symbol]
W16-7pL	[Symbol]
W16-9p	[Symbol]

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/19/2019	JMR	ISSUE FOR CONSTRUCTION
2	03/19/2021	JMR	REVISED FOR CONSTRUCTION

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LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JW P.M. US
S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-1.0 LAYOUT-19080.dwg

ORIGINAL ISSUE DATE:
MARCH 19, 2021

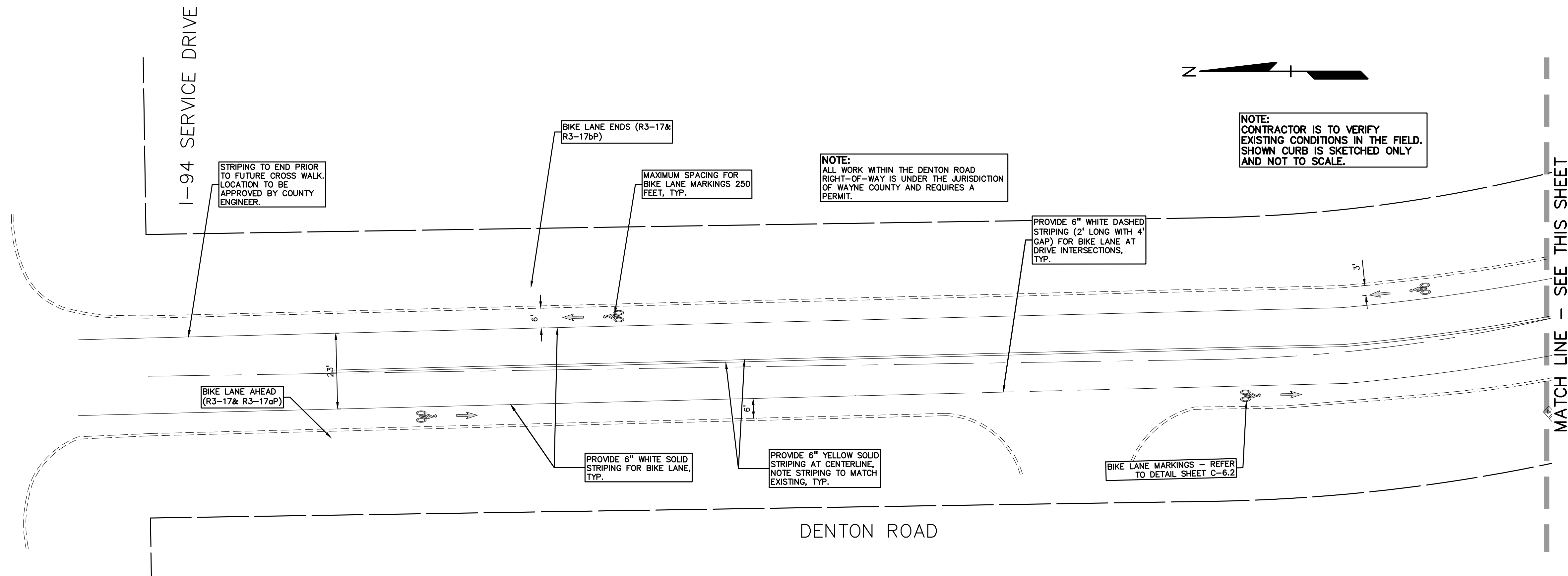
PEA JOB NO. 2019-369

SCALE: 1" = 20'

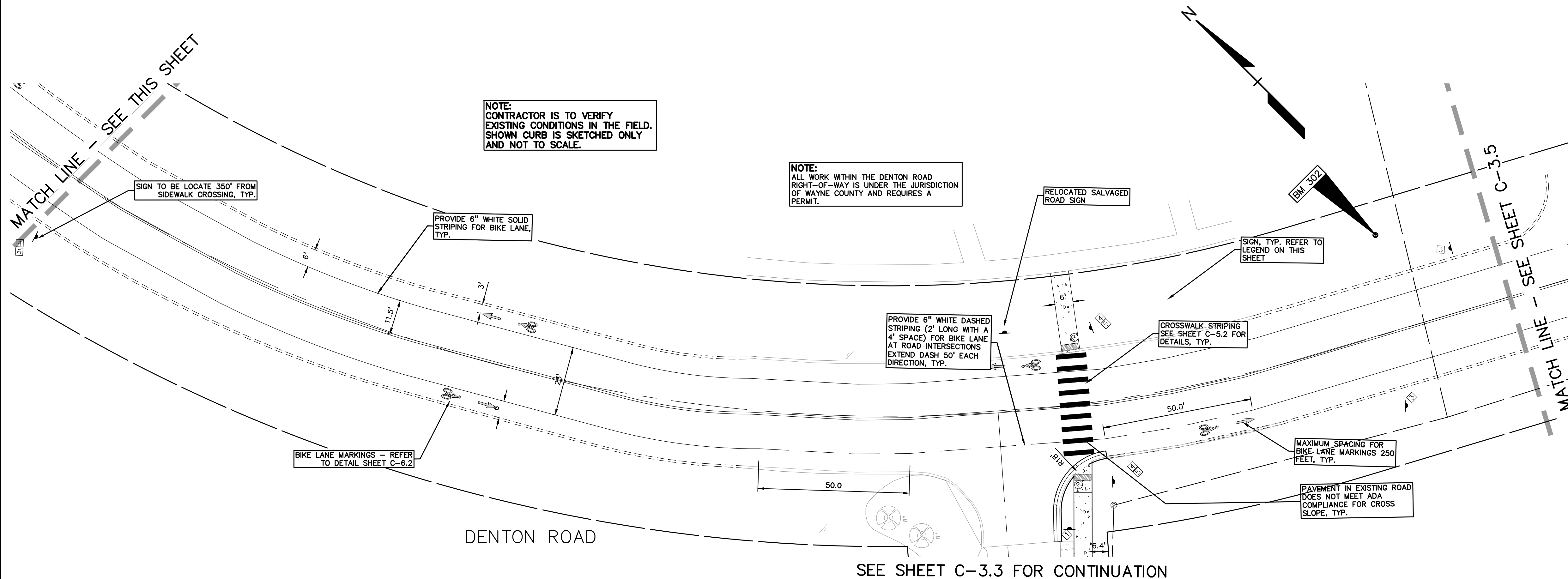
DRAWING NUMBER:
C-3.3

NOT FOR CONSTRUCTION

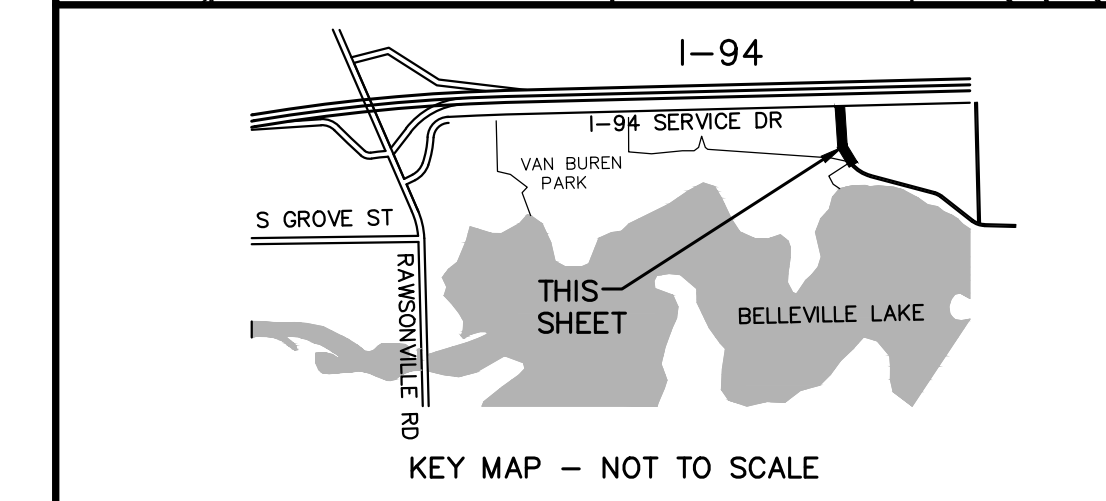
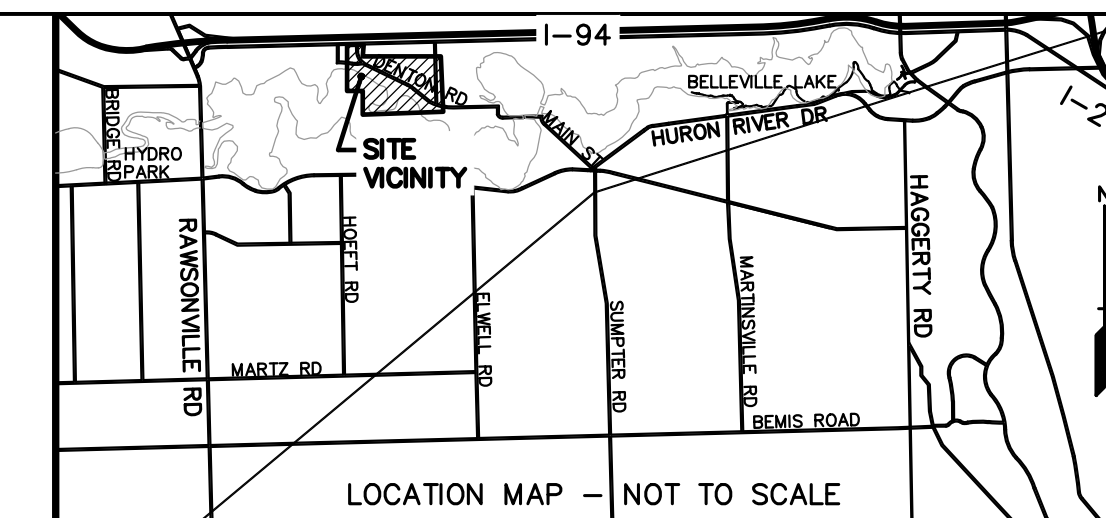
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLK-19369.DWG



DENTON ROAD BIKE LANE PLAN VIEW

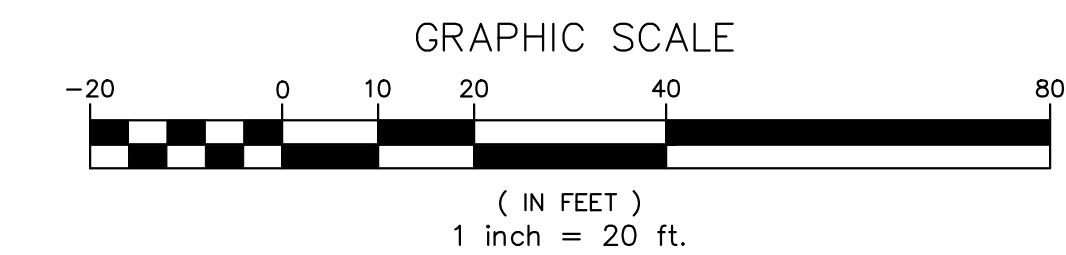


DENTON ROAD BIKE LANE PLAN VIEW



LEGEND:

CONCRETE PAVEMENT	CONCRETE CURB AND GUTTER
ASPHALT PAVEMENT	REVERSE GUTTER PAN
GRAVEL	SETBACK LINE
RIP RAP	SIGN
WETLAND	LIGHTPOLE
	FENCE
	GUARD RAIL



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

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	Ⓡ
SIDEWALK RAMP 'TYPE F'	Ⓡ
SIDEWALK RAMP 'TYPE P'	Ⓡ
SIDEWALK RAMP 'TYPE C'	Ⓡ
SIDEWALK RAMP 'TYPE D'	Ⓡ
CURB DROP ONLY	Ⓡ

SIGN LEGEND:

'STOP' SIGN	Ⓡ
W7-5	Ⓡ
R3-17	Ⓡ
W11-2	Ⓡ
W16-7pL	Ⓡ
W16-9p	Ⓡ

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/19/2019	JMR	ISSUE FOR PERMIT
2	03/19/2021	JMR	REVISED FOR PERMIT

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LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JWR P.M. US
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ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

SCALE: NOT TO SCALE

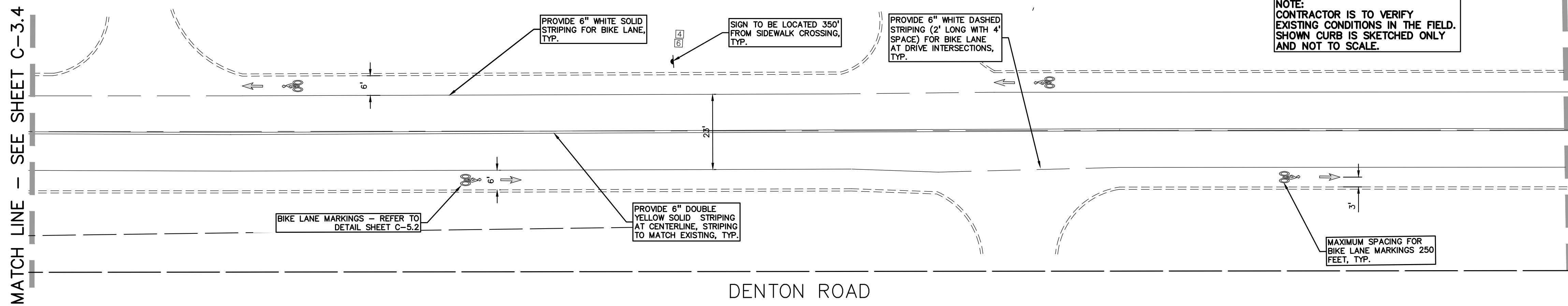
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C-3.4

MATCH LINE - SEE SHEET C-3.4

MATCH LINE - SEE THIS SHEET

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DENTON ROAD BIKE LANE PLAN VIEW

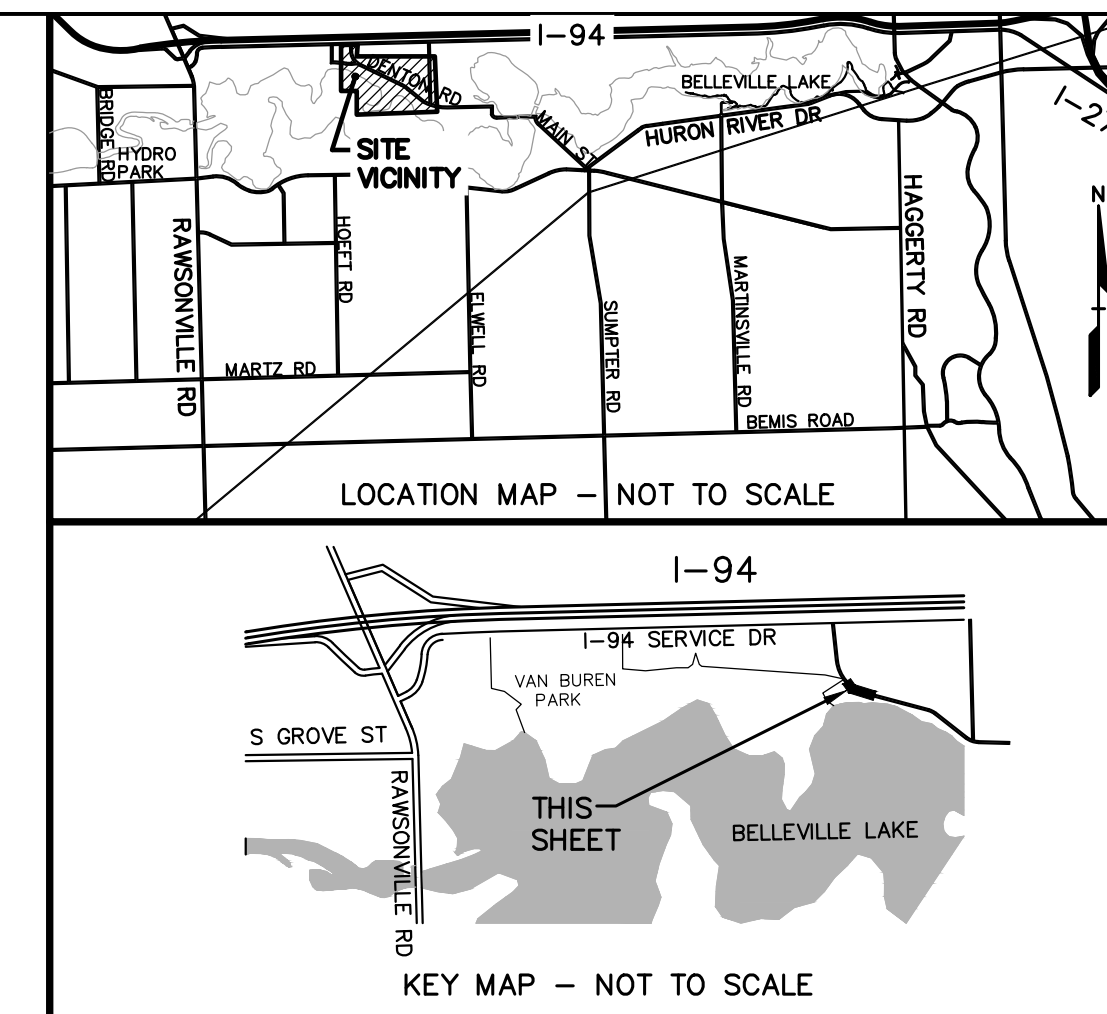
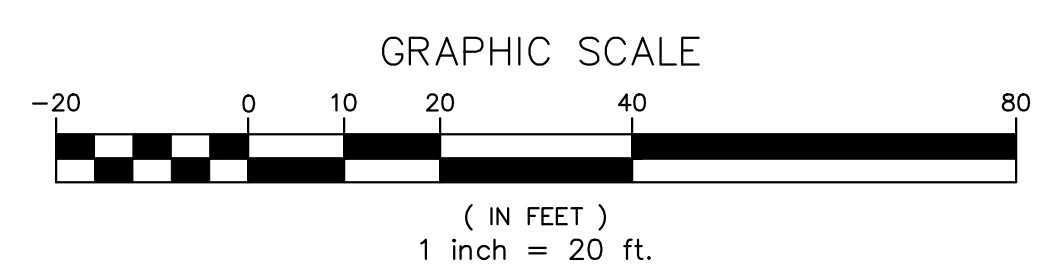


Table with 2 columns: REVISIONS, and 2 rows of revision details.

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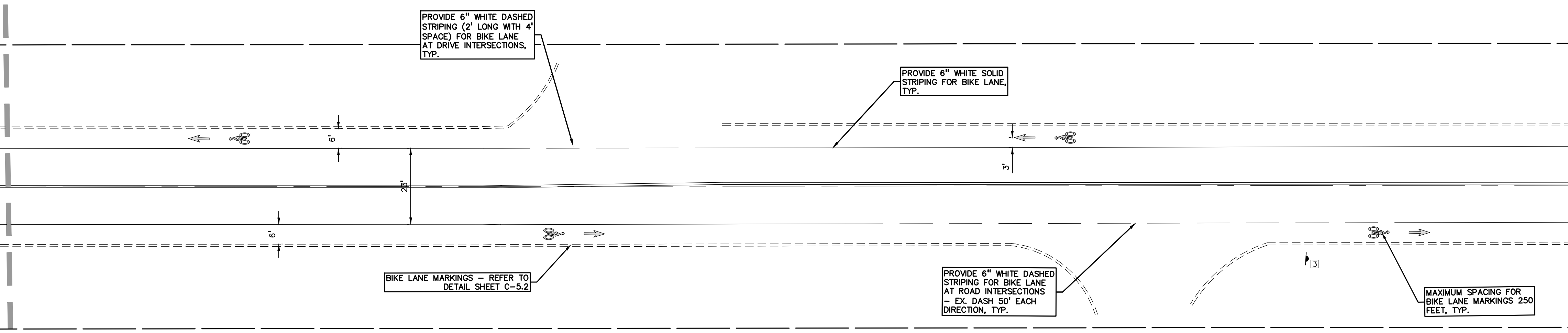
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DENTON ROAD BIKE LANE PLAN VIEW

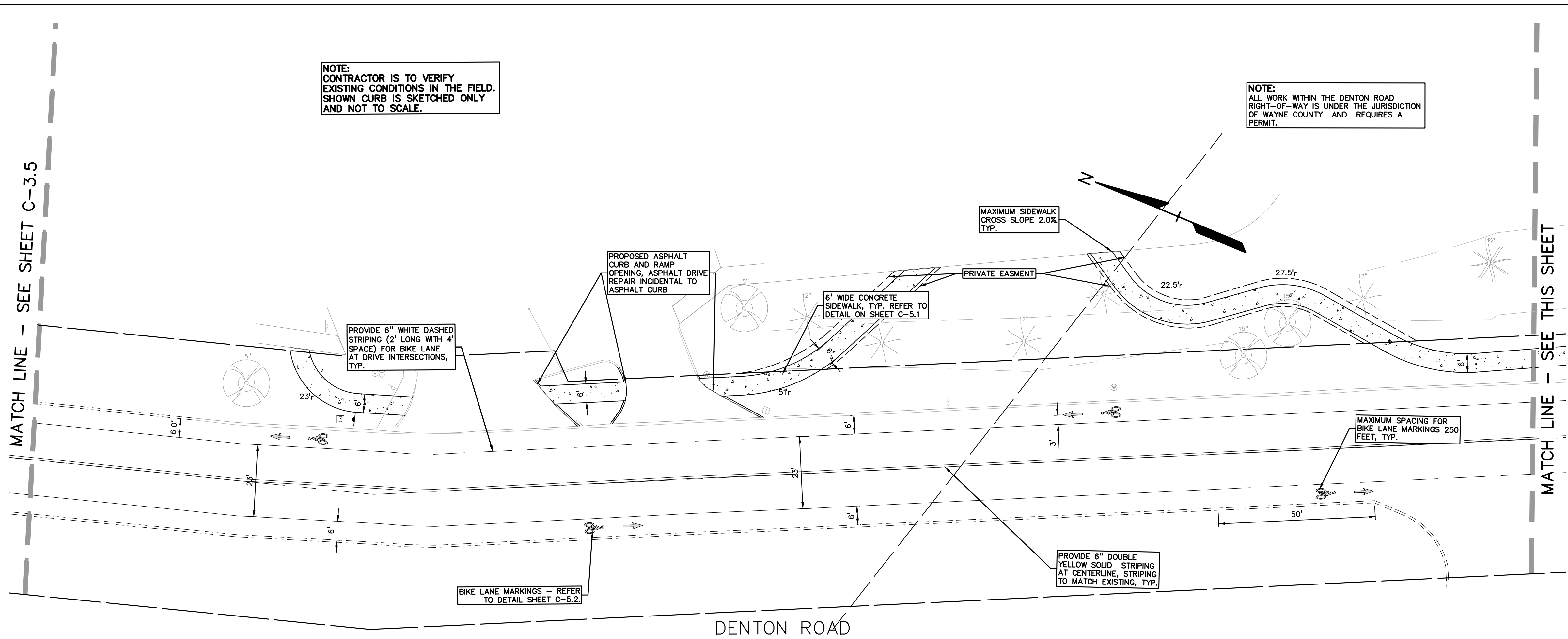
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3. REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND: SIDEWALK RAMP 'TYPE R', 'TYPE F', 'TYPE P', 'TYPE C', 'TYPE D', CURB DROP ONLY.

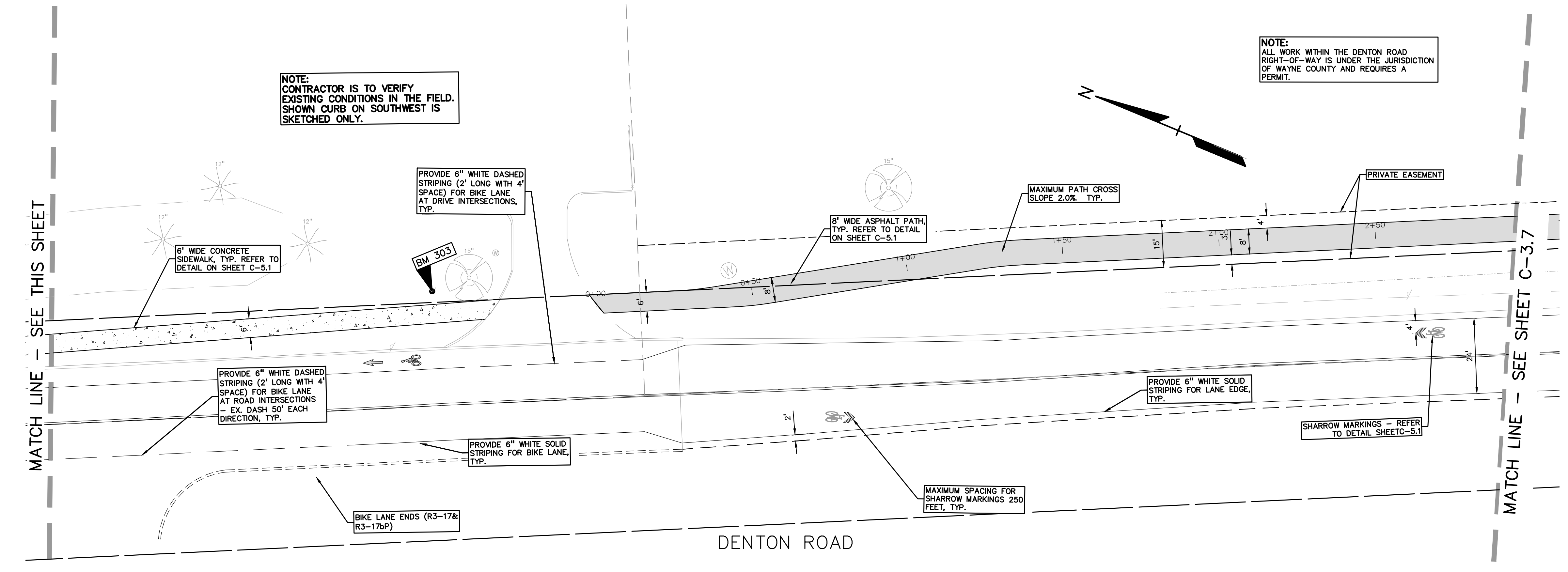
SIGN LEGEND: 'STOP' SIGN, W7-5, R3-17, W11-2, W16-7pL, W16-9p, REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS.

NOT FOR CONSTRUCTION
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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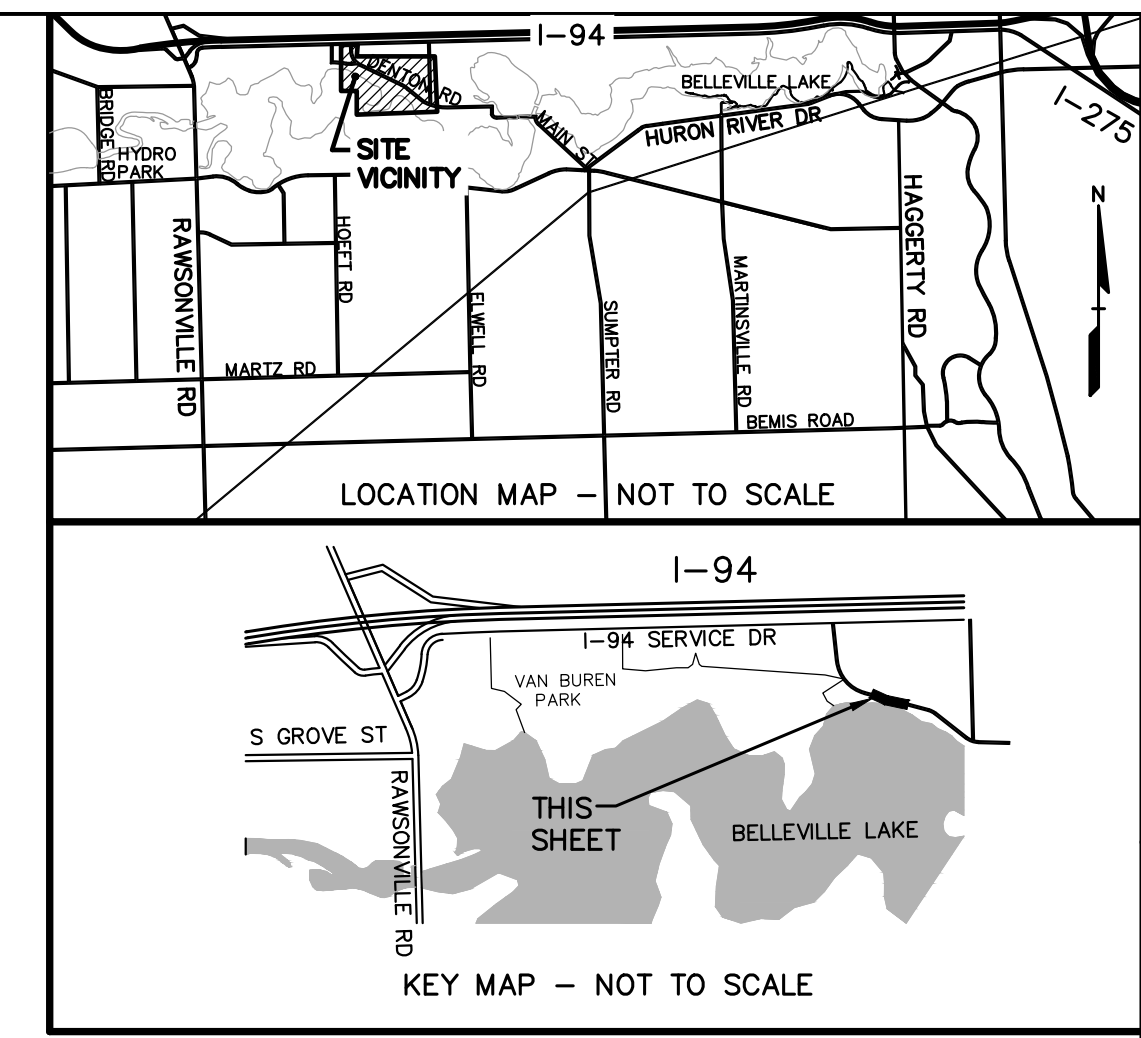
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VAN BUREN TOWNSHIP, MI 48111
WAYNE COUNTY, MI
DES: JMR DN SUR: JW P.M. US
LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D
ORIGINAL ISSUE DATE: MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: NOT TO SCALE
DRAWING NUMBER: C-3.5



DENTON ROAD BIKE LANE AND SIDEWALK PLAN VIEW



DENTON ROAD BIKE LANE/SHARROW AND SIDEWALK PLAN VIEW



REVISIONS	
1.	1. EBT, JMR, JWC, JWB
2.	2. EBT, JMR, JWC, JWB
3.	3. EBT, JMR, JWC, JWB
4.	4. EBT, JMR, JWC, JWB
5.	5. EBT, JMR, JWC, JWB
6.	6. EBT, JMR, JWC, JWB
7.	7. EBT, JMR, JWC, JWB
8.	8. EBT, JMR, JWC, JWB
9.	9. EBT, JMR, JWC, JWB
10.	10. EBT, JMR, JWC, JWB

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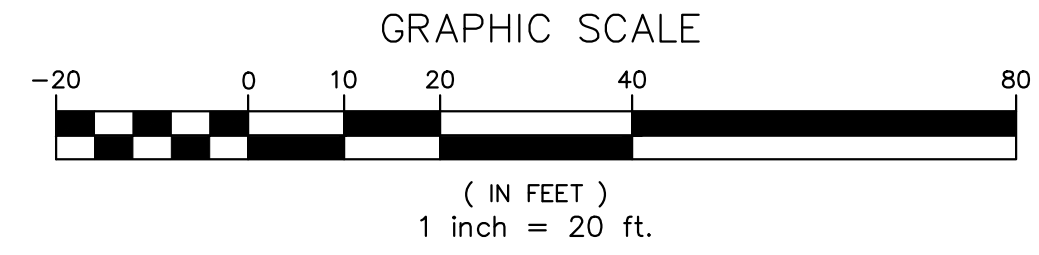
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- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
 - 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"	(F)
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. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

SIGN LEGEND:

"STOP" SIGN	(1)
W7-5	(2)
R3-17	(3)
W11-2	(4)
W16-7pL	(5)
W16-9p	(6)

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

PE&A GROUP

t: 844.813.2949
 www.peagroup.com

VAN BUREN TOWNSHIP
 48625 TYLER ROAD
 VAN BUREN TOWNSHIP, MI 48111

LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JW P.M. US
 WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
 MARCH 19, 2021

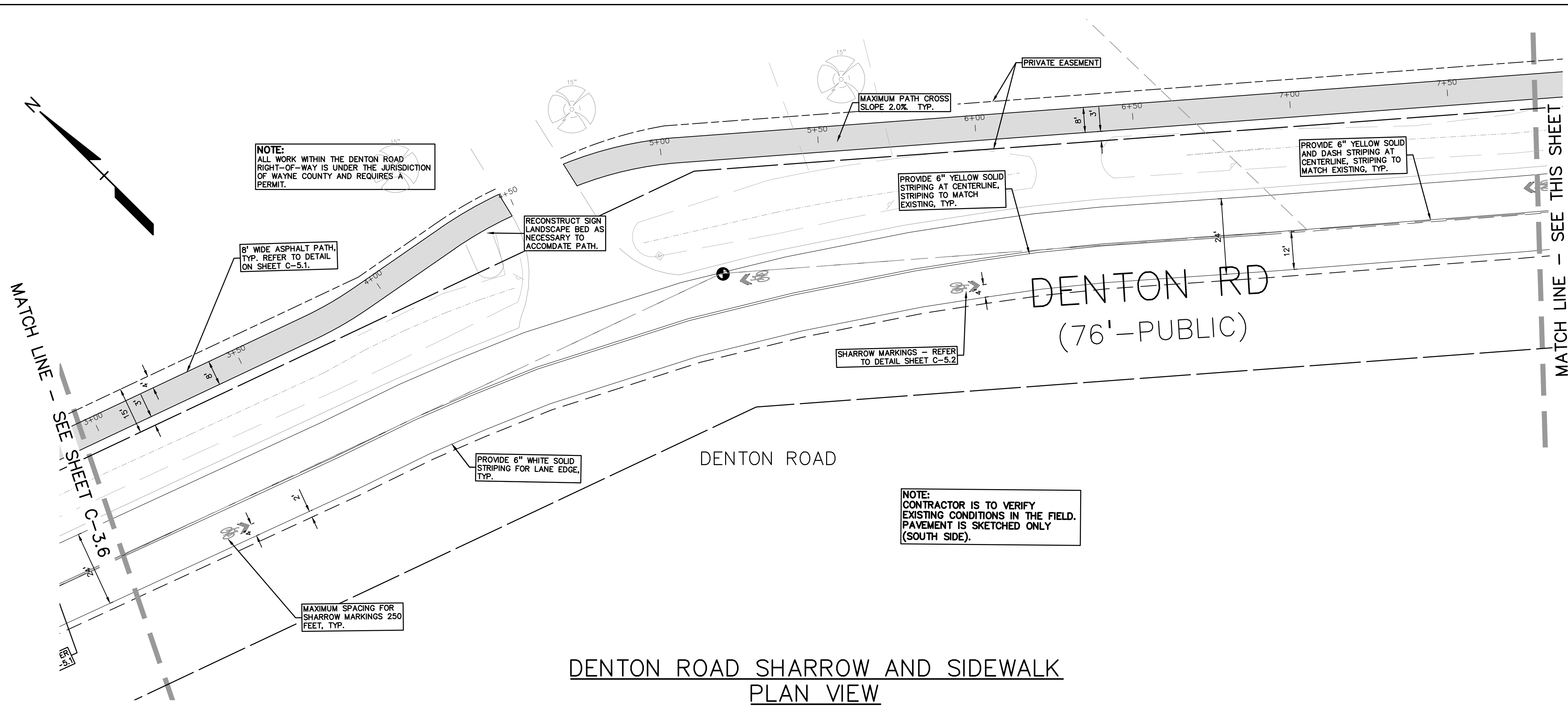
PEA JOB NO. 2019-369

SCALE: 1"=20'

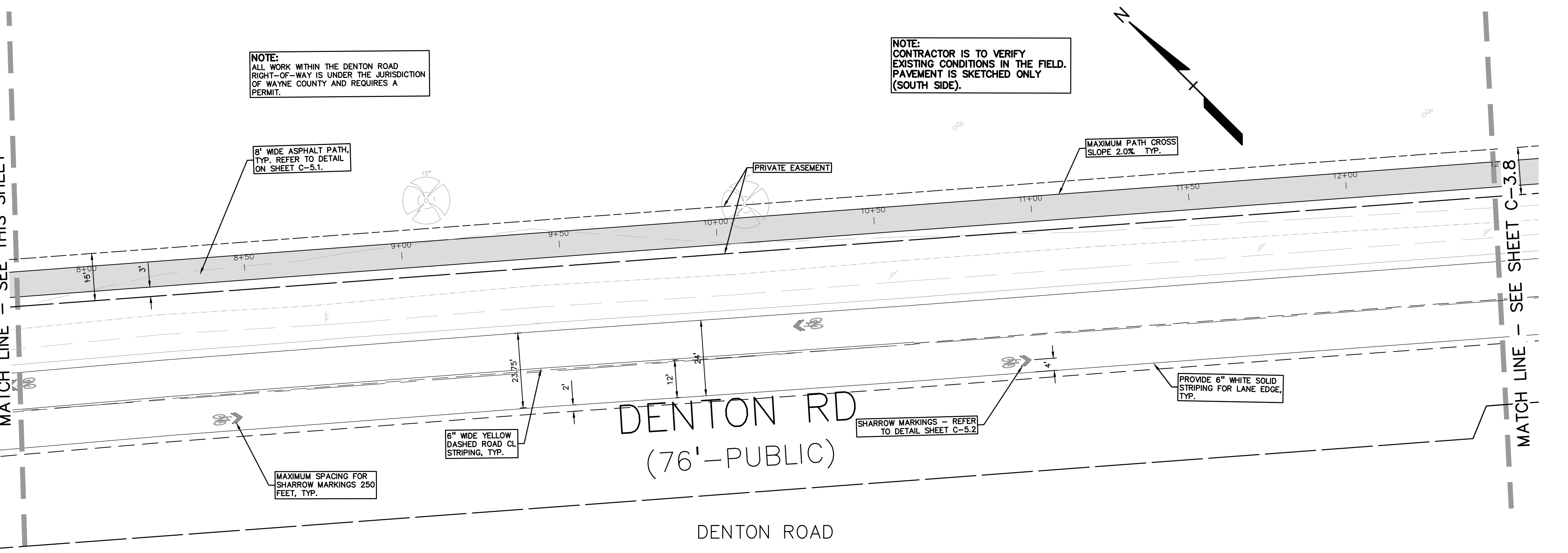
DRAWING NUMBER:
C-3.6

NOT FOR CONSTRUCTION

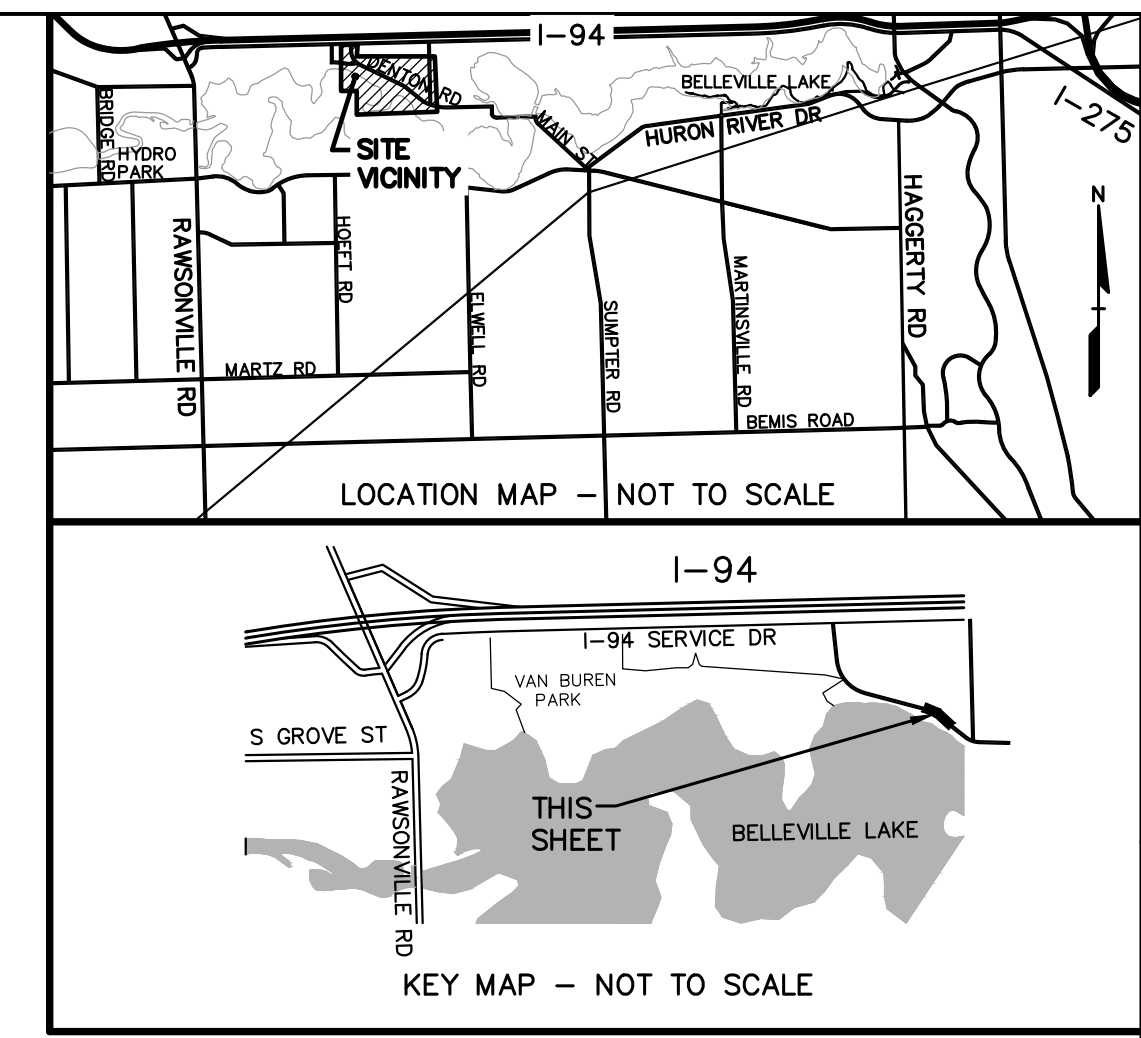
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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\19-369_VB TOPOBASE.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\SITE PLANS\19-369_VB PARKWAY PLANS\X-BASE D-19369.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\SITE PLANS\19-369_VB PARKWAY PLANS\X-TLK-19369.DWG



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW

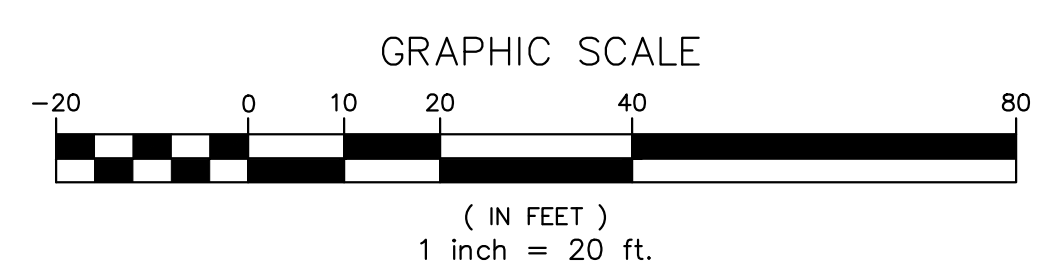


DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



LEGEND:

CONCRETE PAVEMENT	CONCRETE CURB AND GUTTER
ASPHALT PAVEMENT	REVERSE GUTTER PAN
GRAVEL	SETBACK LINE
RIP RAP	SIGN
WETLAND	LIGHTPOLE
	FENCE
	GUARD RAIL



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

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	Ⓡ
SIDEWALK RAMP 'TYPE F'	Ⓡ
SIDEWALK RAMP 'TYPE P'	Ⓡ
SIDEWALK RAMP 'TYPE C'	Ⓡ
SIDEWALK RAMP 'TYPE D'	Ⓡ
CURB DROP ONLY	Ⓡ

SIGN LEGEND:

'STOP' SIGN	Ⓡ
W7-5	Ⓡ
R3-17	Ⓡ
W11-2	Ⓡ
W16-7pL	Ⓡ
W16-9p	Ⓡ

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

REVISIONS

NO.	DATE	BY	REVISIONS
1		JMR	ISSUE FOR PERMIT
2		JMR	REVISED PER COMMENTS
3		JMR	REVISED PER COMMENTS

CAUTION!
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VAN BUREN TOWNSHIP
48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES: JMR DN: SUR: JW P.M: JS
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

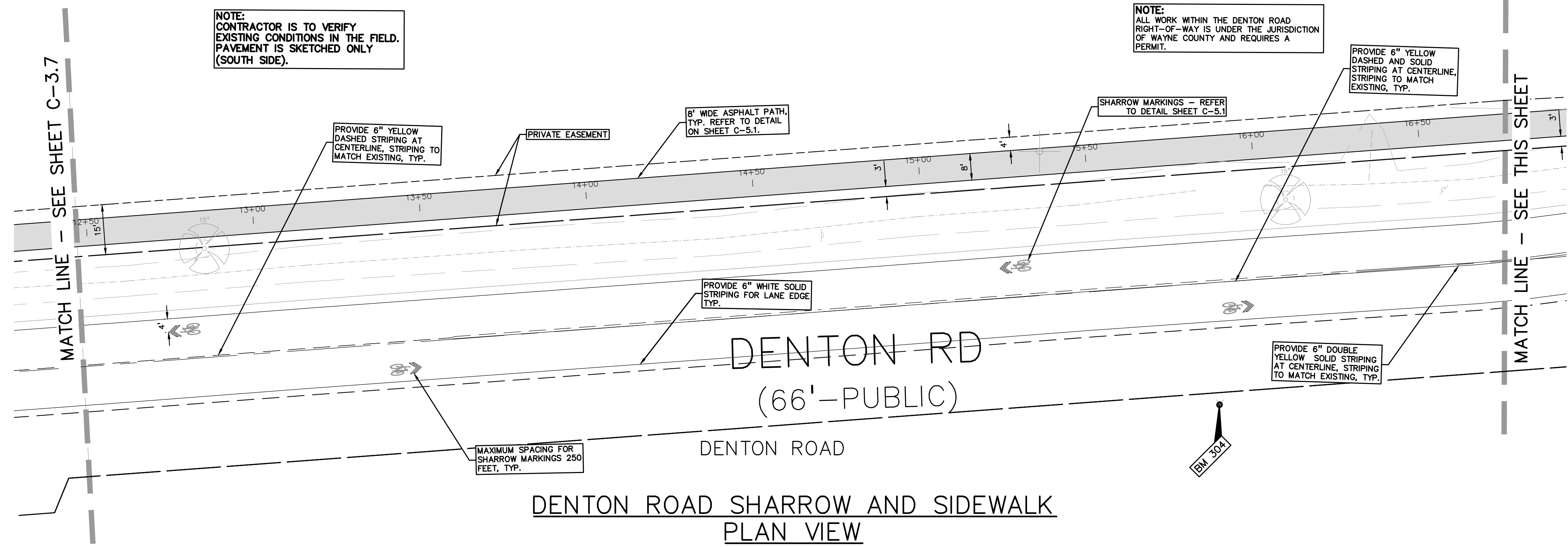
PEA JOB NO. 2019-369

SCALE: 1"=20'

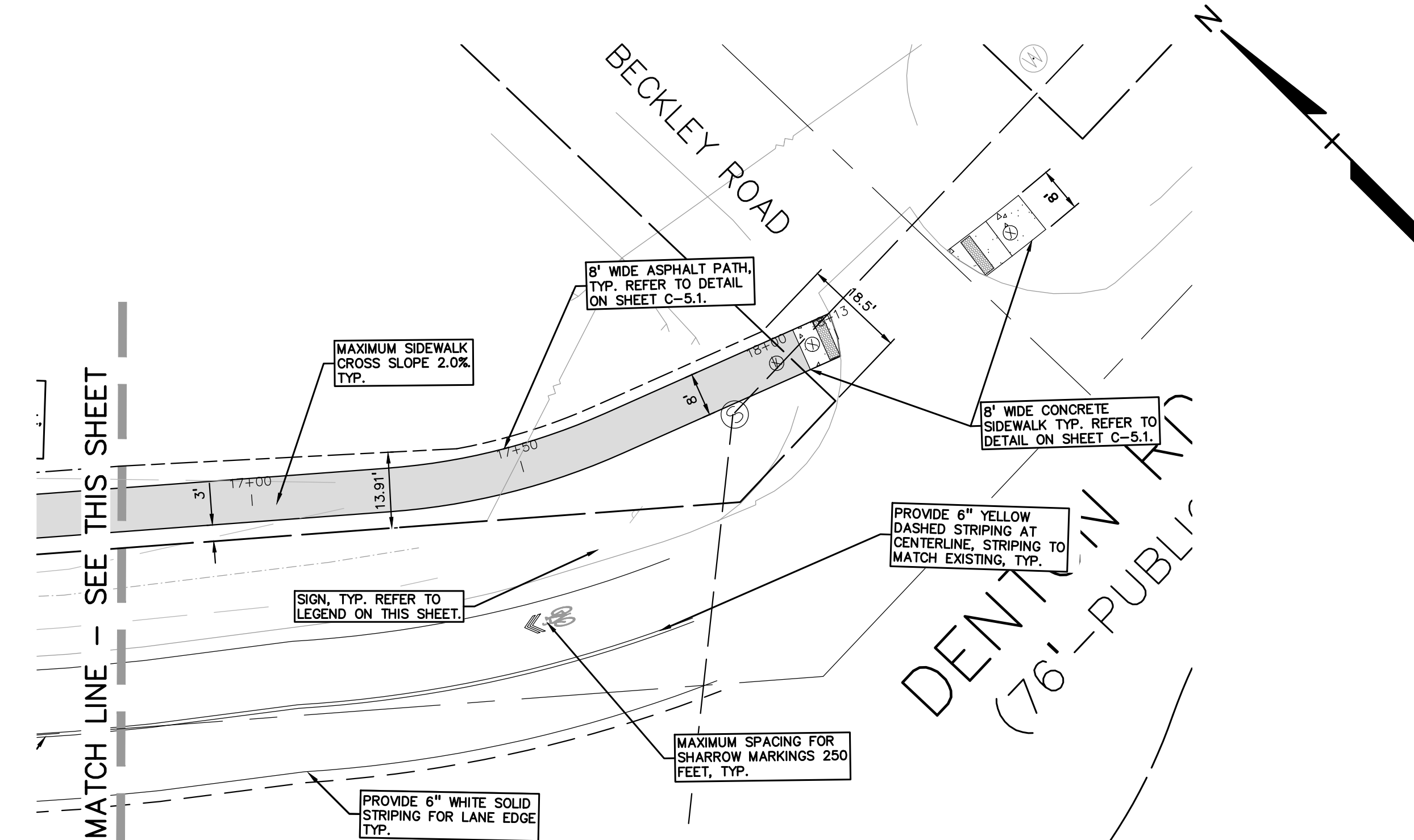
DRAWING NUMBER:
C-3.7

NOT FOR CONSTRUCTION

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\19-369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLK-19369.DWG



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



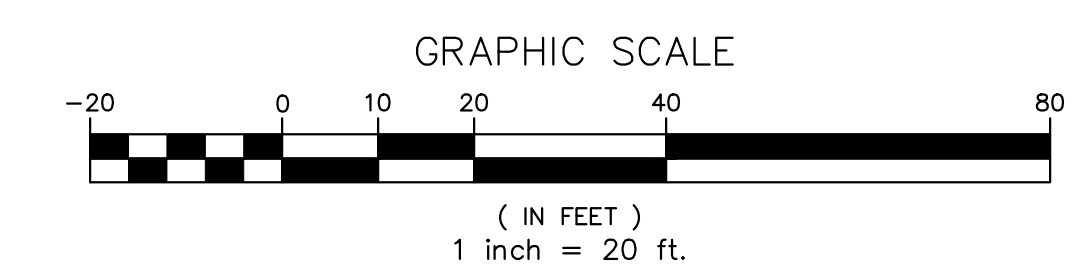
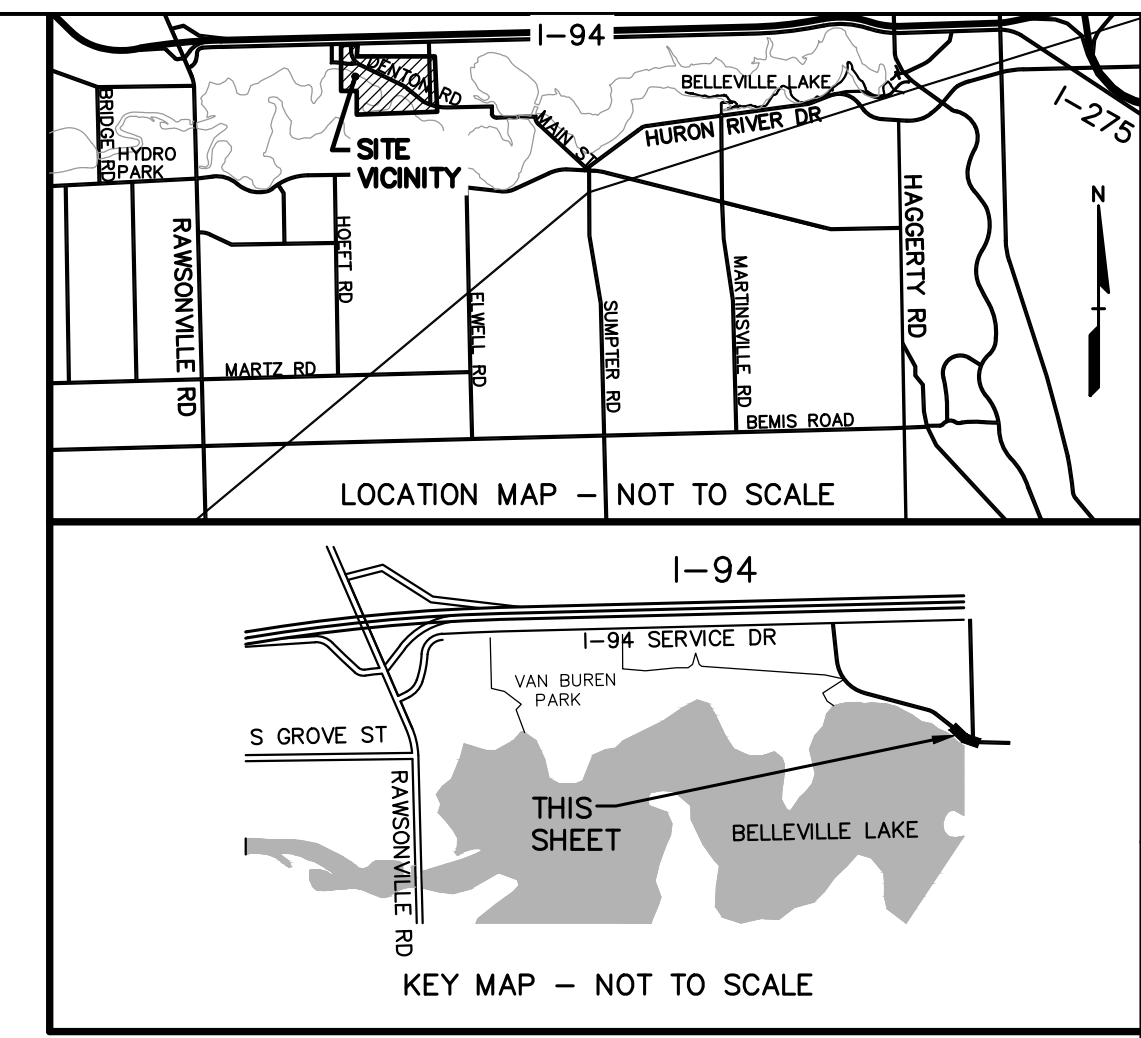
DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW

MATCH LINE - SEE SHEET C-3.7

MATCH LINE - SEE THIS SHEET

NOTE:
CONTRACTOR IS TO VERIFY
EXISTING CONDITIONS IN THE FIELD.
PAVEMENT IS SKETCHED ONLY
(SOUTH SIDE).

NOTE:
ALL WORK WITHIN THE DENTON ROAD
RIGHT-OF-WAY IS UNDER THE JURISDICTION
OF WAYNE COUNTY AND REQUIRES A
PERMIT.



- GENERAL NOTES:**
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
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 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

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. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

SIGN LEGEND:

'STOP' SIGN	Ⓢ
W7-5	Ⓢ
R3-17	Ⓢ
W11-2	Ⓢ
W16-7pL	Ⓢ
W16-9p	Ⓢ

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TPOBASE.DWG
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REVISIONS	
1.	1. EBT JMR 1/20/20
2.	2. BPT JMR 1/20/20

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48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

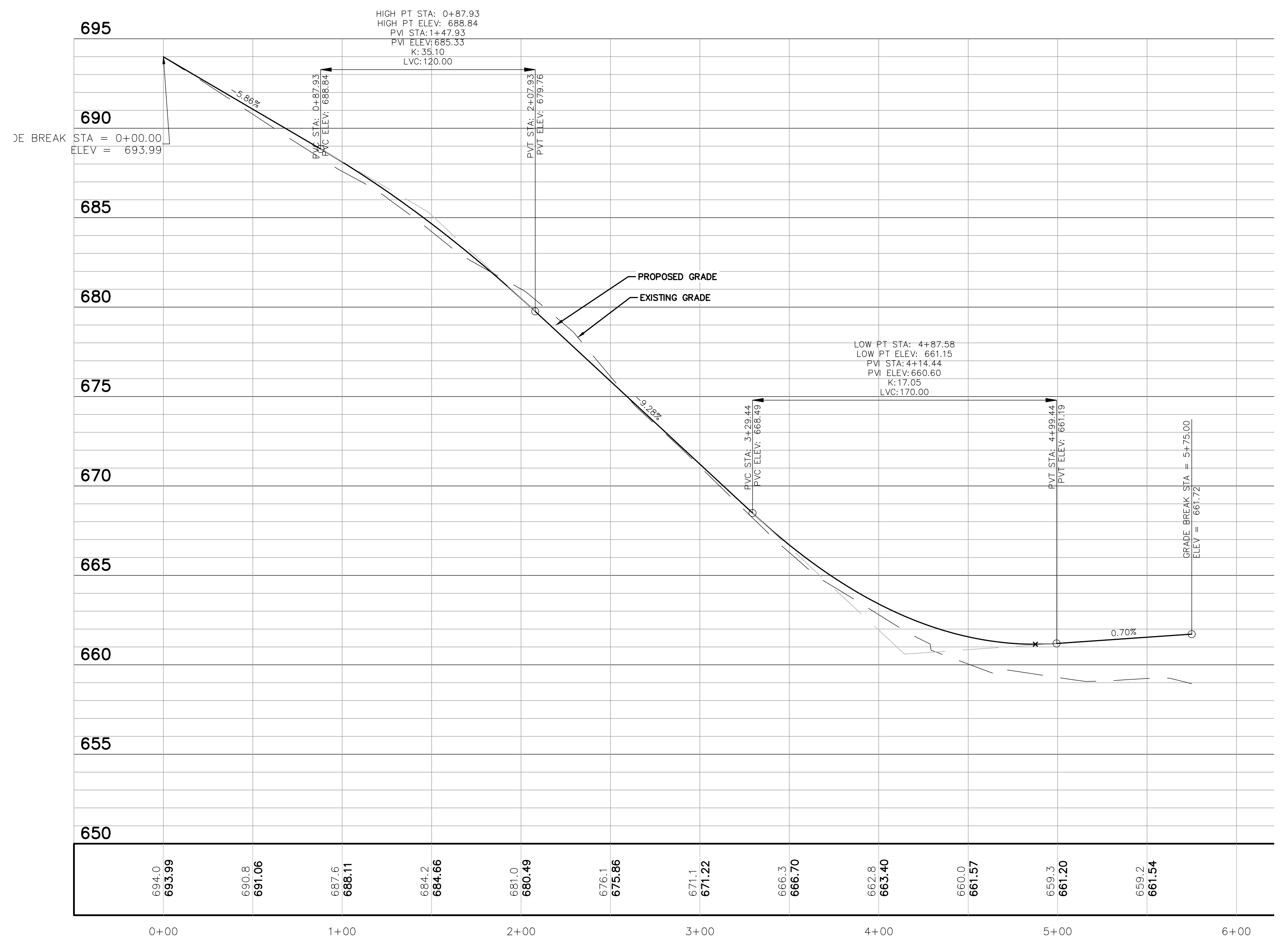
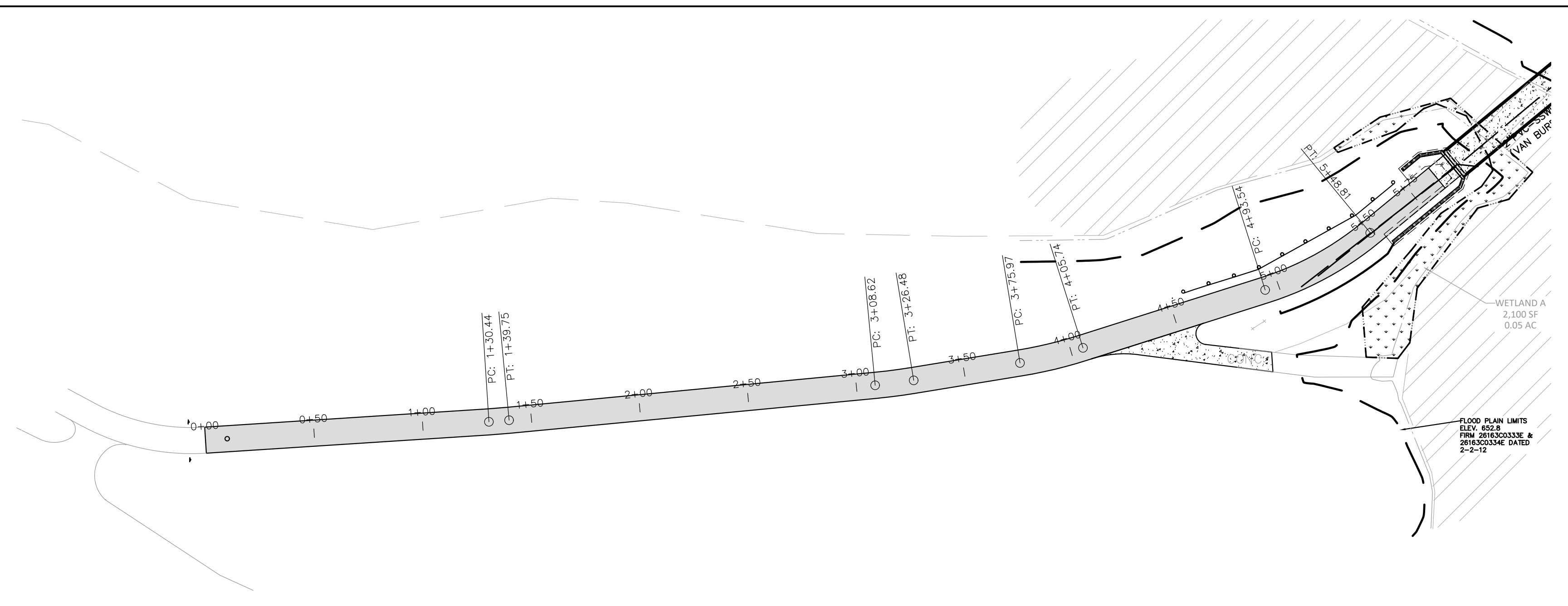
DES: JMR DN SUR: JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

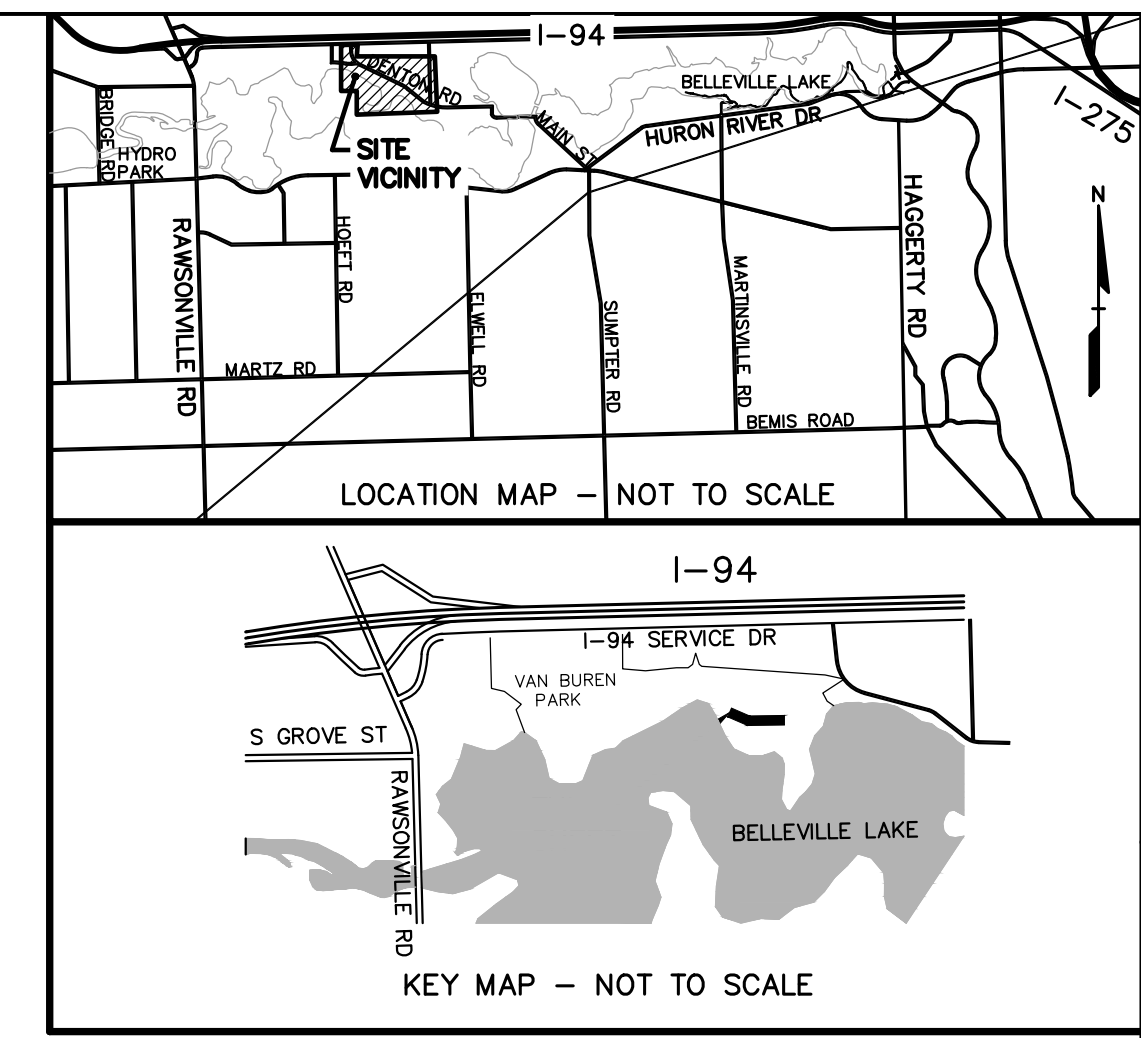
SCALE: 1"=20'

DRAWING NUMBER:
C-3.8



TRAIL PLAN VIEW

- GENERAL GRADING AND EARTHWORK NOTES:**
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT
1. 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.
 3. 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.
 4. 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 WAYNE COUNTY PRIOR TO CONSTRUCTION.
 5. ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
 6. REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
 7. ALL DISTURBED AREAS SHALL BE SEEDED AND BLANKETED IN ACCORDANCE WITH THESE PLANS. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.
 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.
 10. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROFFROLLED 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 GEORIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
 11. 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 PROPOSED SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
 12. 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 SUBGRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.



LEGEND

● IRON FOUND	● BRASS PLUG SET	● SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊗ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊗ MEASURED
⊗ NAIL & CAP SET		⊗ CALCULATED

EXISTING

- OH-ELEC—V—O— ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV— UG-CATV
- UG-CATV— TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC— ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAN. VALVE & GAS LINE MARKER
- WATERMAN, IND., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEDDIE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE ROOM/VALVE BOX, SERVICE SHUTOFF
- MATERIAL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN

PROPOSED

- CONC.— CONCRETE
- ASPH.— ASPHALT
- GRAVEL— GRAVEL SHOULDER
- WETLAND— WETLAND
- SID DUTY— SID DUTY
- HEAVY R.O.M. DUTY— HEAVY R.O.M. DUTY
- PATHWAY— PATHWAY
- ROADWAY— ROADWAY

GRAPHIC SCALE

1 inch = 40 ft.

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.

BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV. - 698.59

NO.	DATE	BY	REVISIONS
1	11/19/2019	JMR	ISSUE FOR PERMITTING
2	03/19/2021	JMR	ISSUE FOR CONSTRUCTION

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VAN BUREN TOWNSHIP
48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

WEST PARK PATH PLAN & PROFILE
IRON BELLE TRAIL-SECTION D

DES: JMR DN: SUR: JW P.M. US
S: PROJECTS\2019\2019-369 VAN BUREN (BT)DW\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
S: PROJECTS\2019\2019-369 VAN BUREN (BT)DW\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPOBASE.DWG
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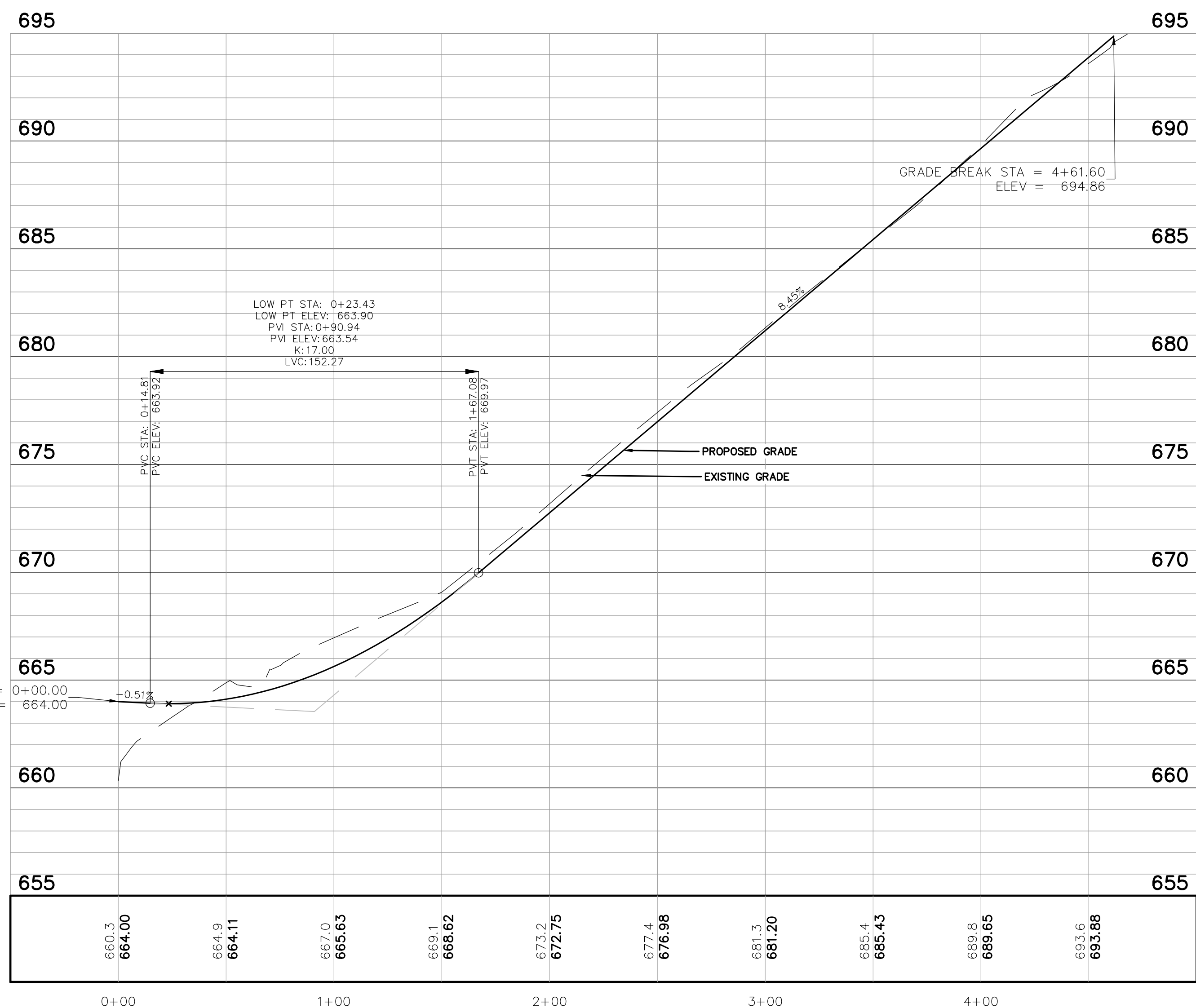
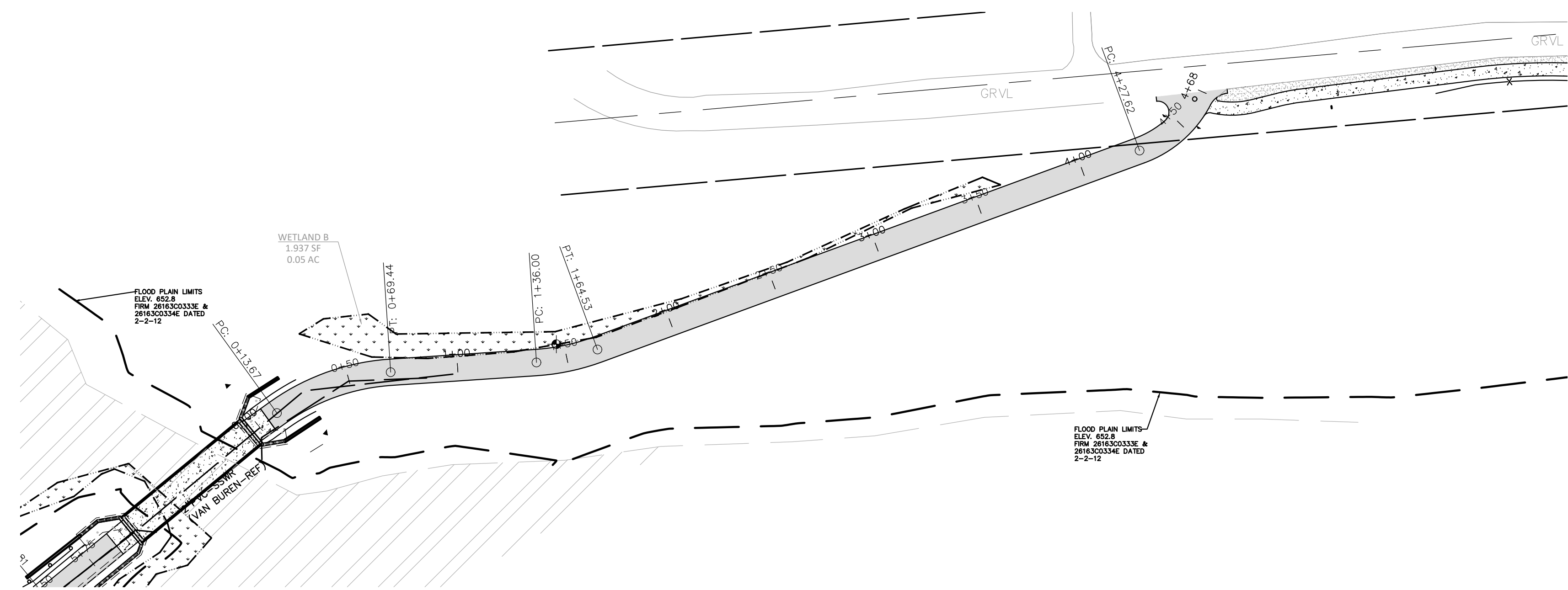
ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

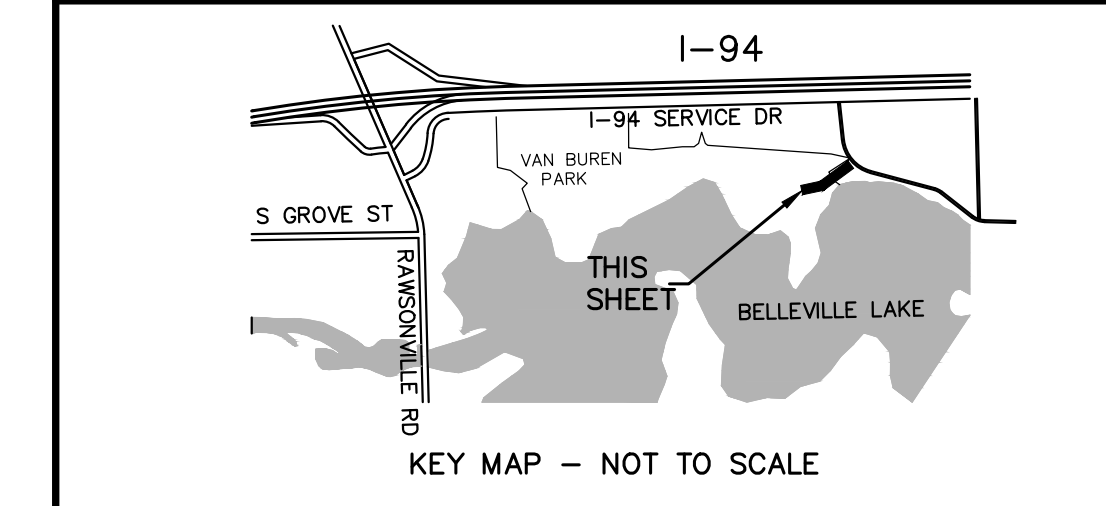
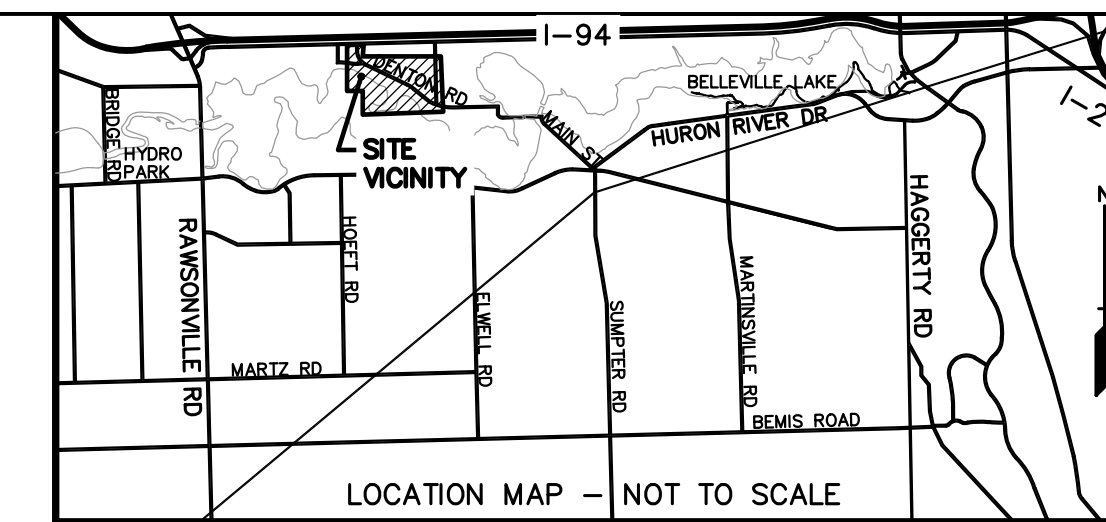
SCALE: 1"=20'

DRAWING NUMBER:
C-4.1

NOT FOR CONSTRUCTION



TRAIL PLAN VIEW



LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC—W—ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—ELEC. TELEPHONE U.G. CABLE, MANHOLE, METER & HANDHOLE
- UG-ELEC—ELEC. ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS—GAS MAN. VALVE & GAS LINE MARKER
- WATERMAN, HD., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY—SANITARY SEWER, CLEANOUT & MANHOLE
- STORM—STORM SEWER, CLEANOUT & MANHOLE
- COMBINED—COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEDDING CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE ROYALTY/RYANT VALVE BOX, SERVICE SHUTOFF
- MARBOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE

PROPOSED

- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC.—CONCRETE
- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND

GRAPHIC SCALE
 0 20 40 80 160
 (IN FEET)
 1 inch = 40 ft.

EARTHWORK BALANCING NOTE:
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BENCHMARKS
 (GPS DERIVED - NAVD 88)
 BM #309
 1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
 ELEV. - 698.59

REVISIONS	
1.	1. EIT: JMR 1/20/21
2.	2. EIT: JMR 1/20/21

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 VAN BUREN TOWNSHIP, MI 48111
EAST PARK PATH PLAN & PROFILE
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JW P.M. US
 WAYNE COUNTY, MI
 ORIGINAL ISSUE DATE: MARCH 19, 2021
 PEA JOB NO. 2019-369
 SCALE: 1"=20'
 DRAWING NUMBER: **C-4.2**

NOT FOR CONSTRUCTION
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPBASE.DWG
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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG

SEQUENCE OF CONSTRUCTION:

- START DAY END DAY**
- 1 5 INSTALL CRUSHED CONCRETE ACCESS APPROACH AT LOCATIONS PER PLAN.
 - 1 5 INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
 - 1 20 MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
 - 5 25 REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
 - 5 25 REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
 - 5 25 DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
 - 25 45 ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
 - 45 60 INSTALL SITE UTILITIES (DRAIN TILE) AND RETAINING WALLS. INSTALL RIP RAP AT END SECTION.
 - 60 90 GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
 - 90 110 INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE. ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
 - 25 90 TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
 - 90 110 FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
 - 110 120 CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED.
 - 120 120 REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

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.
1. 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.
 2. 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.
 4. 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.

STREET CLEANING SCHEDULE

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SCRAPE STREETS		X	X	X	X	X	X
SWEEP STREETS				X			

GENERAL SITE CONDITIONS:

- PER THE USGS SOIL SURVEY, THE AREA OF CONSTRUCTION CONSISTS OF BOYER LOAMY SAND, 0-6 PERCENT SLOPES (Bb) AND SPINKS LOAMY SAND, 0-6 PERCENT SLOPES (Sb). SEE THE GEOTECHNICAL INVESTIGATION PERFORMED BY PEA, INC DATED 10-31-2019 FOR FURTHER DETAILED INFORMATION.
1. TOTAL DISTURBED AREA = ±1.9 ACRES
- SOIL EROSION CONTROL NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF WAYNE COUNTY.
 2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
 3. 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 DRAINS, LAKES AND PONDS.
 4. 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 WAYNE COUNTY FOR THE SESC PERMIT.
 5. STAGING THE WORK SHALL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
 6. 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.

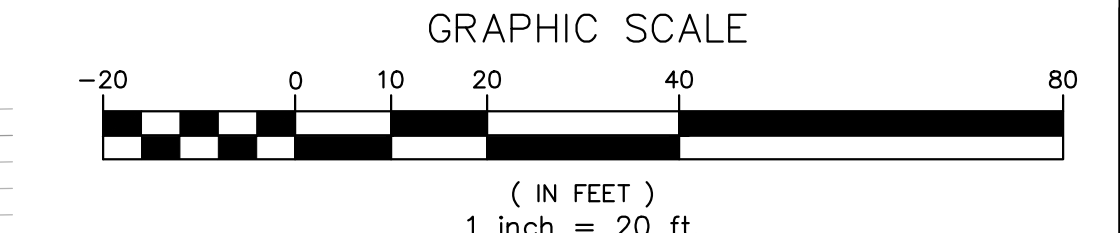
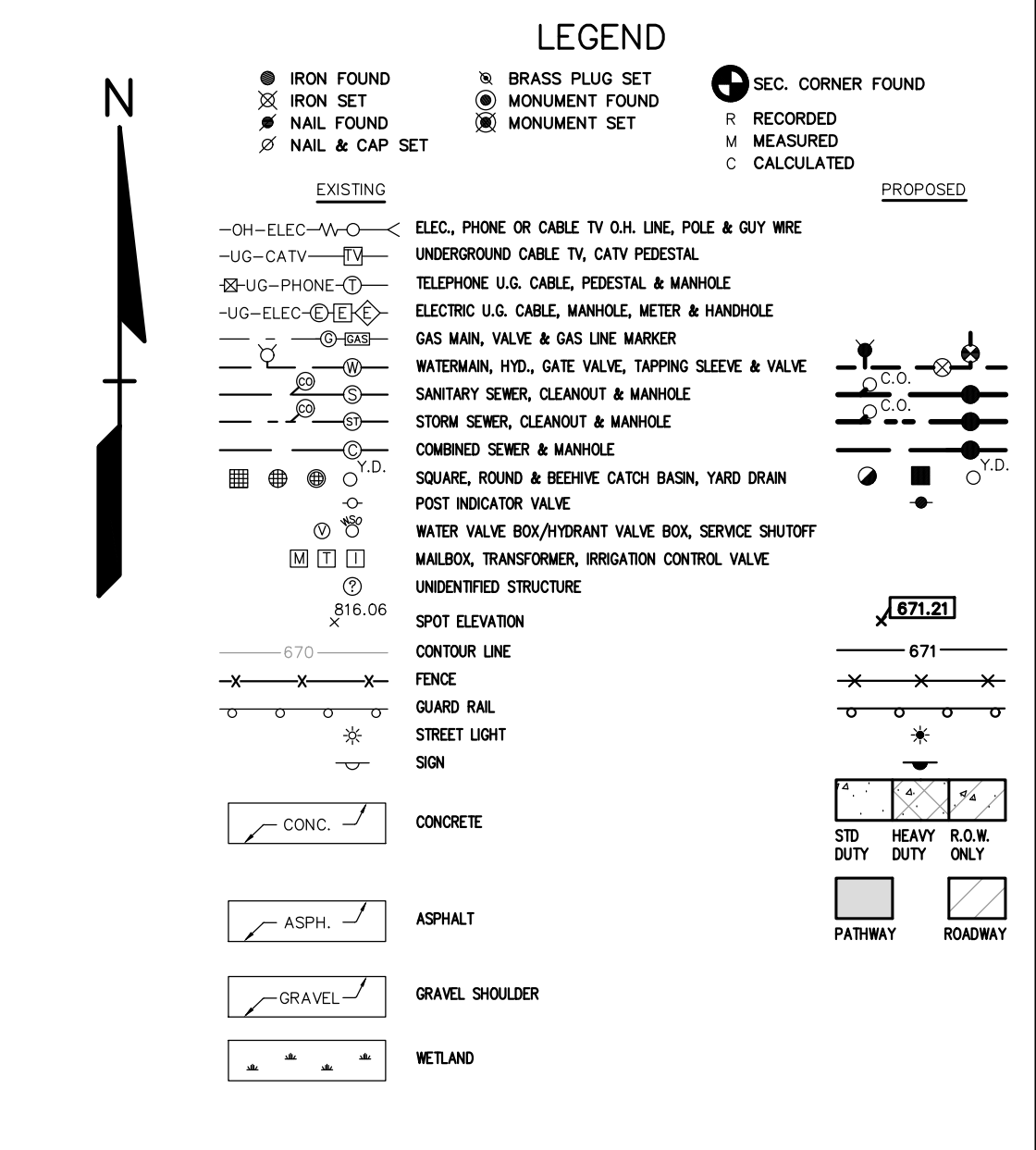
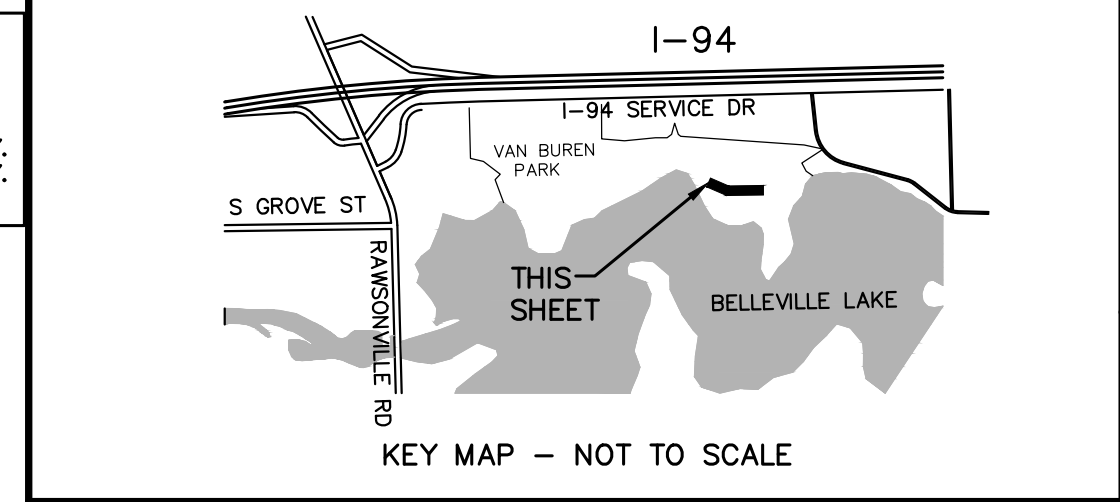
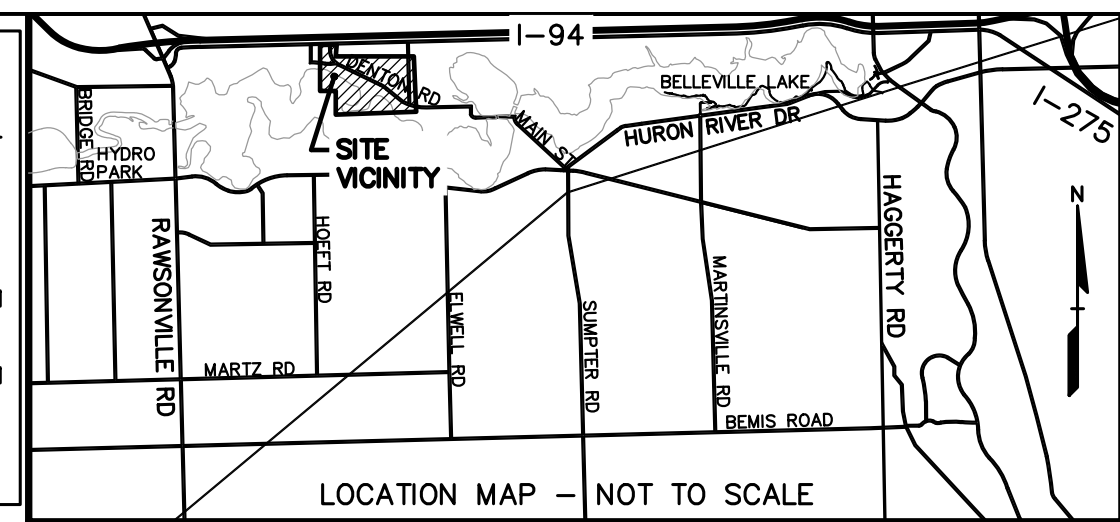
FINAL INSPECTION AND CERTIFICATE OF COMPLETION REQUIREMENTS:

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

EROSION CONTROL QUANTITIES:

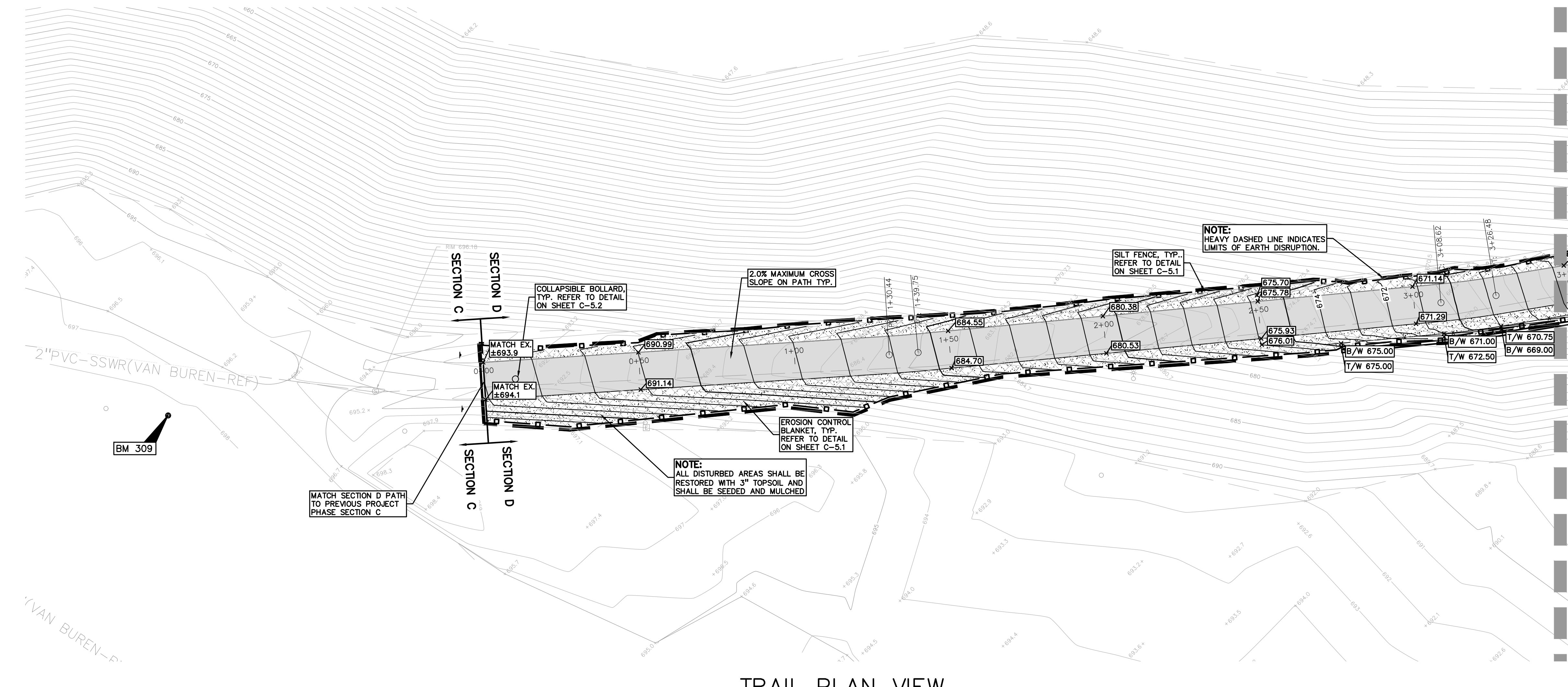
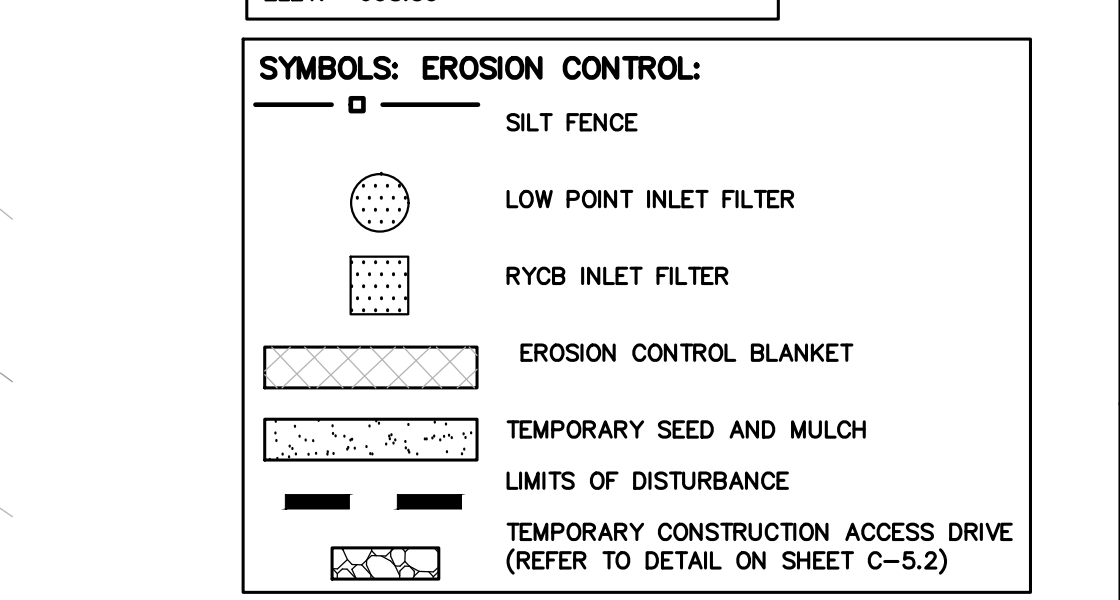
AREA OF DISTURBANCE	1.9	AC
SILT FENCE	5,350	LF EA.
TEMP. STONE ACCESS DRIVE	1	S.Y.
EROSION CONTROL BLANKETS	4,700	S.Y. EA.
RESTORATION	3	S.Y.
SILT SAKS	3	S.Y.

NOTE:
CONTRACTOR TO VERIFY ALL QUANTITIES. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF PEA, INC. FOR VERIFICATION, PRIOR TO BIDDING.



EARTHWORK BALANCING NOTE:
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BENCHMARKS
(GPS DERIVED - NAVD 88)
BM #309
1/2" IRON ROD WITH CAP. 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV. - 698.59



REVISIONS

NO.	DATE	BY	REVISION
1	11-16-23	JMR	ISSUE FOR PERMIT
2	11-16-23	JMR	ISSUE FOR PERMIT

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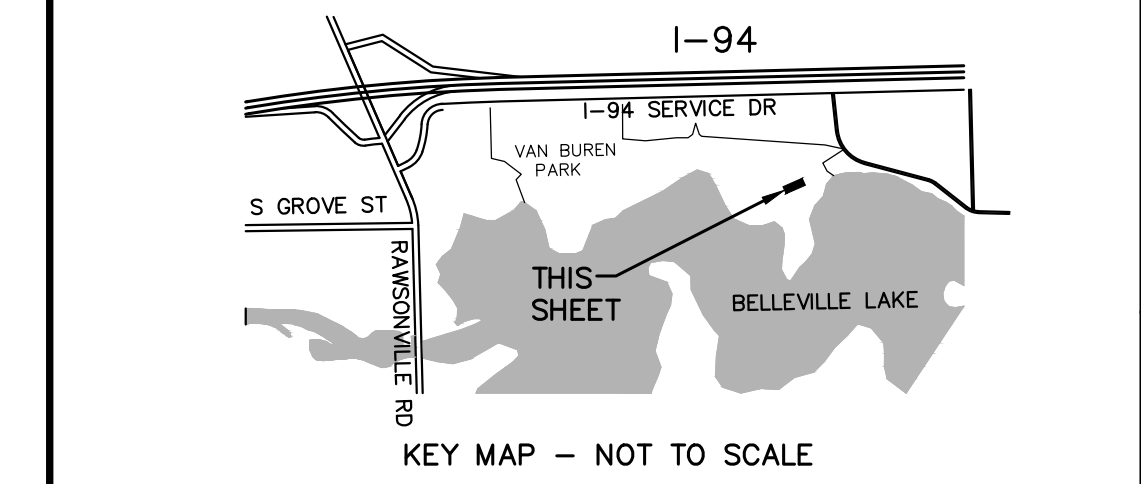
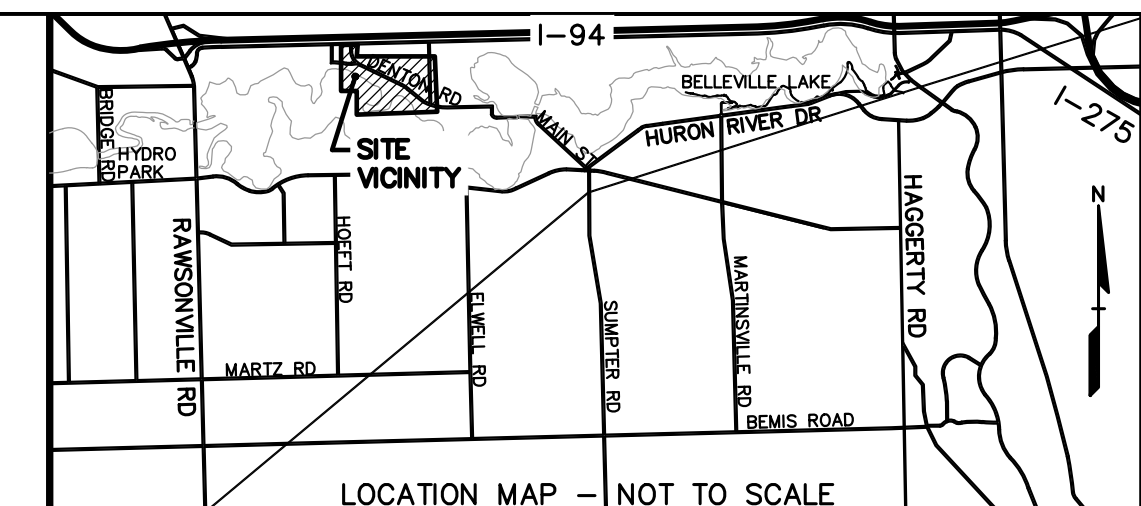
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ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER:
C-4.3

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLK-19369.dwg



REVISIONS	
1	ISSUE FOR PERMIT
2	ISSUE FOR CONSTRUCTION

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC—W—ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—ELEC. TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—ELEC. ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAN, VALVE & GAS LINE MARKER
- WATERMAN, IND., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
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- POST INDICATOR VALVE
- WATER VALVE, ROYALMANT VALVE, BOIL, SERVICE SHUTOFF
- MARBOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN

PROPOSED

- CONC.—CONCRETE
- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND
- SID DUTY
- HEAVY DUTY
- R.O.M. ONLY
- PATHWAY
- ROADWAY

GRAPHIC SCALE
 0 10 20 40 80
 (IN FEET)
 1 inch = 20 ft.

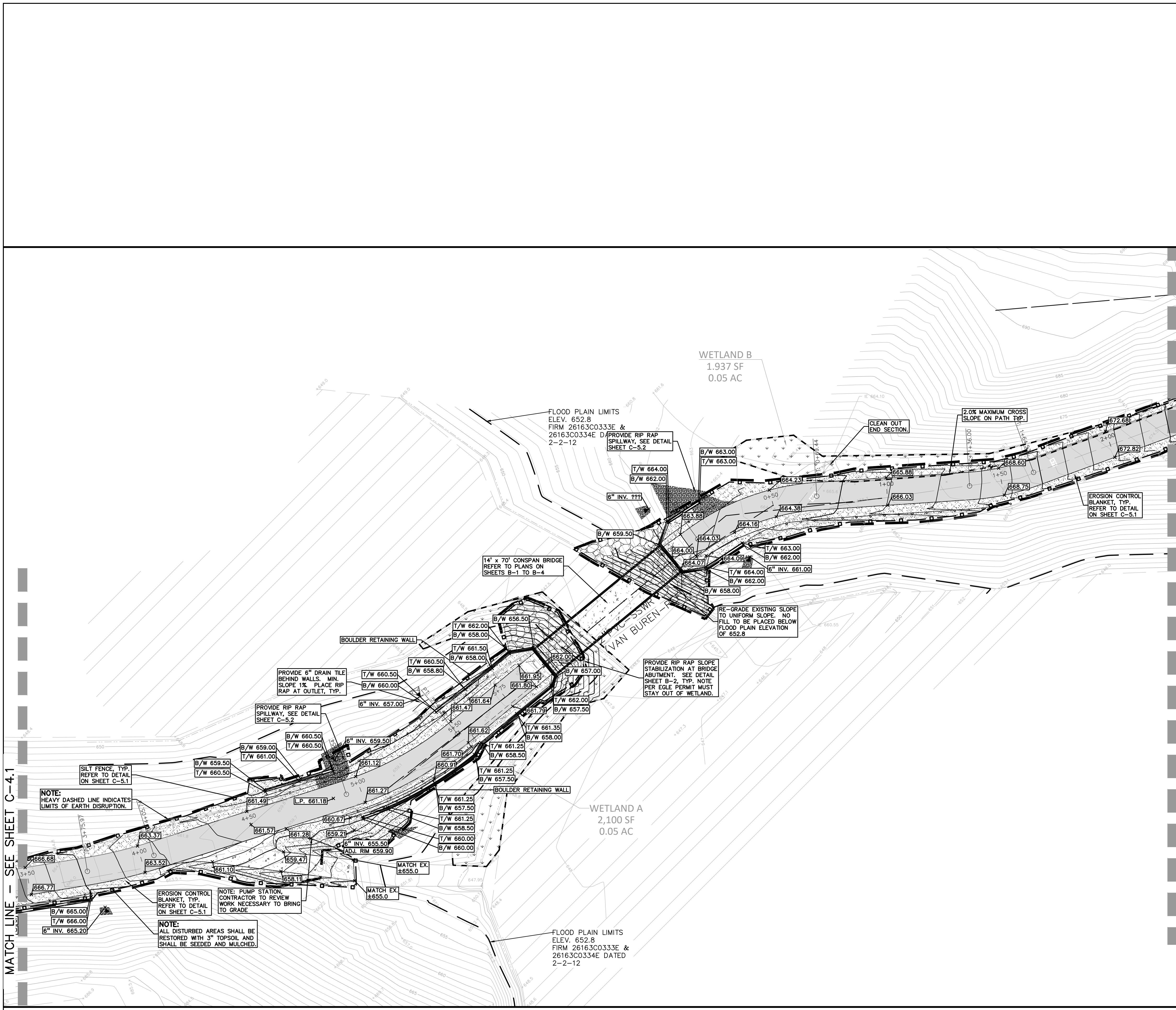
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TRAIL PLAN VIEW

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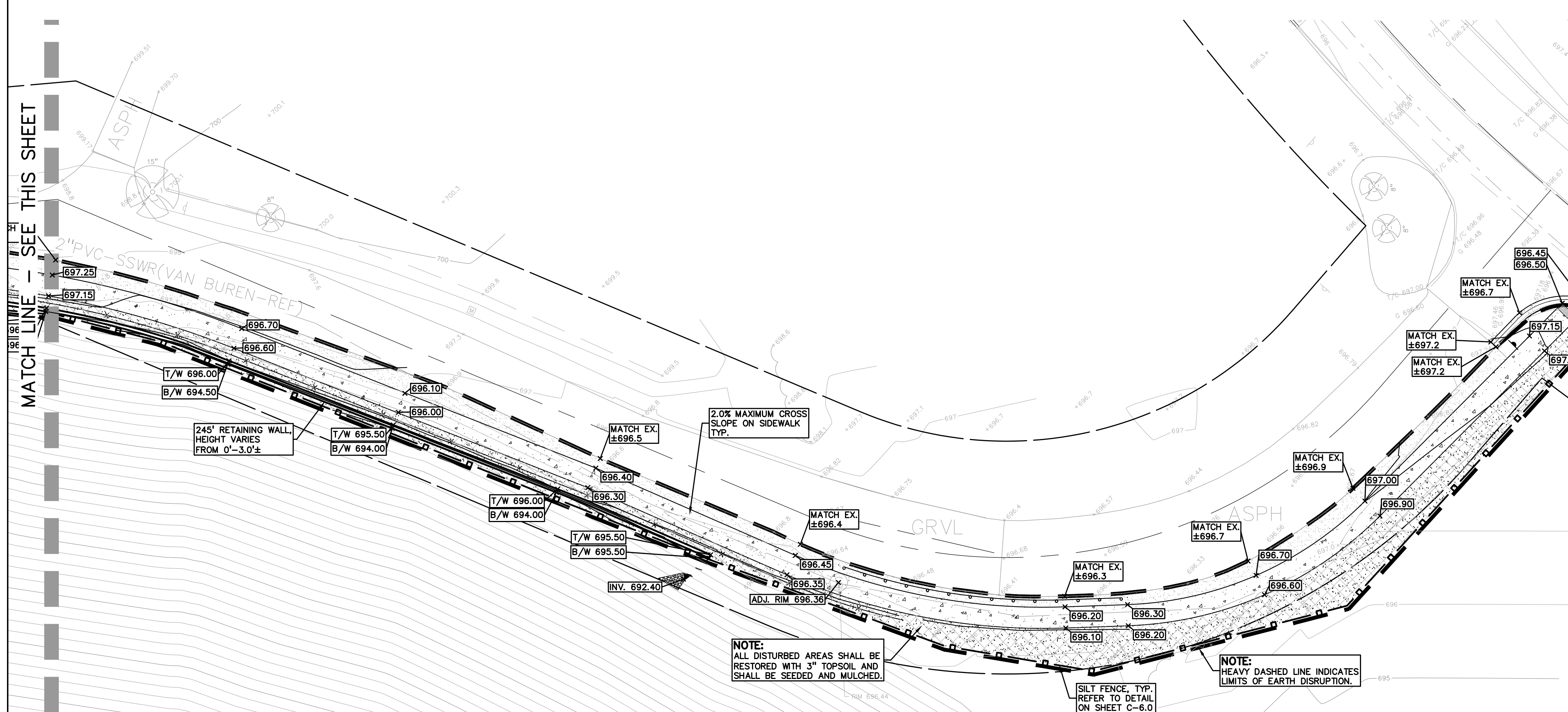
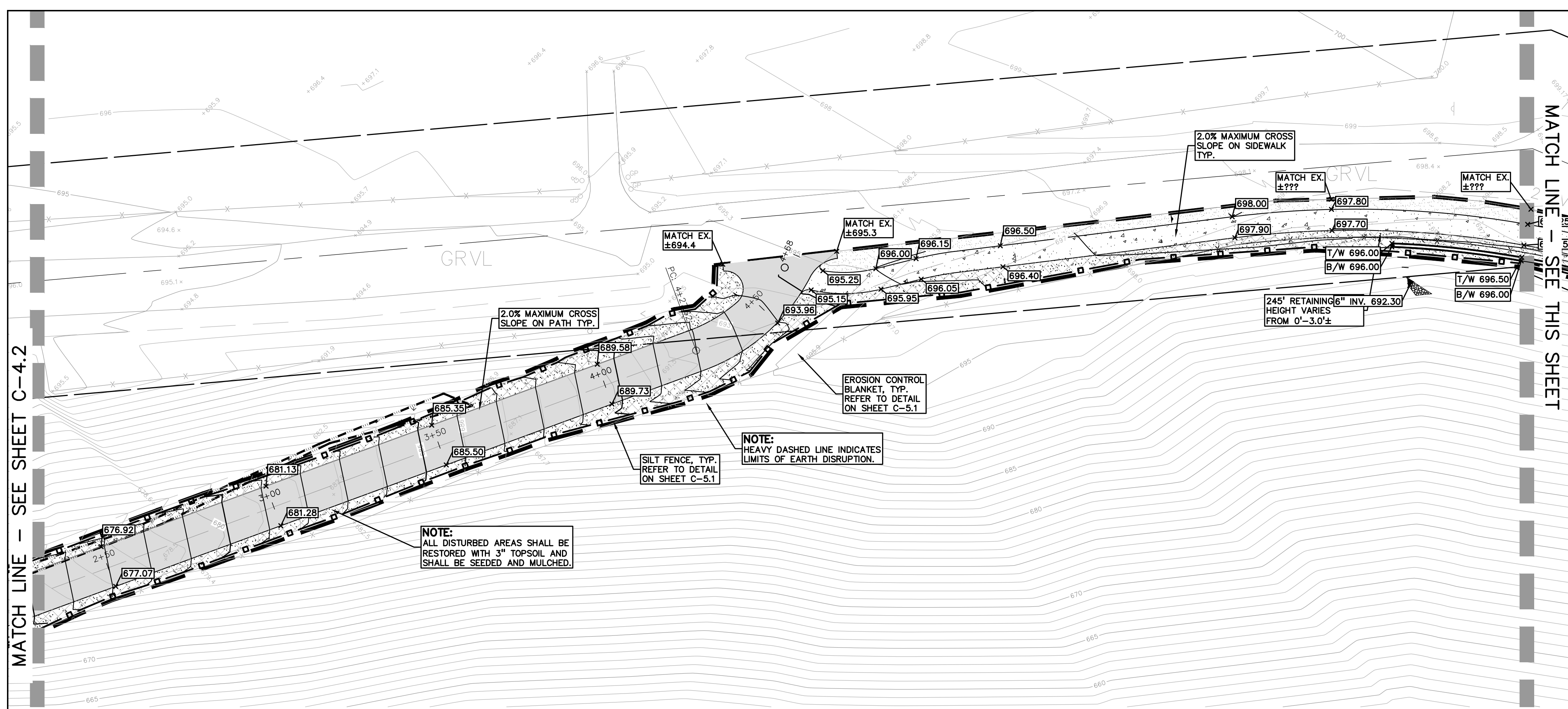
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ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

1" = 20'

DRAWING NUMBER:
C-4.4

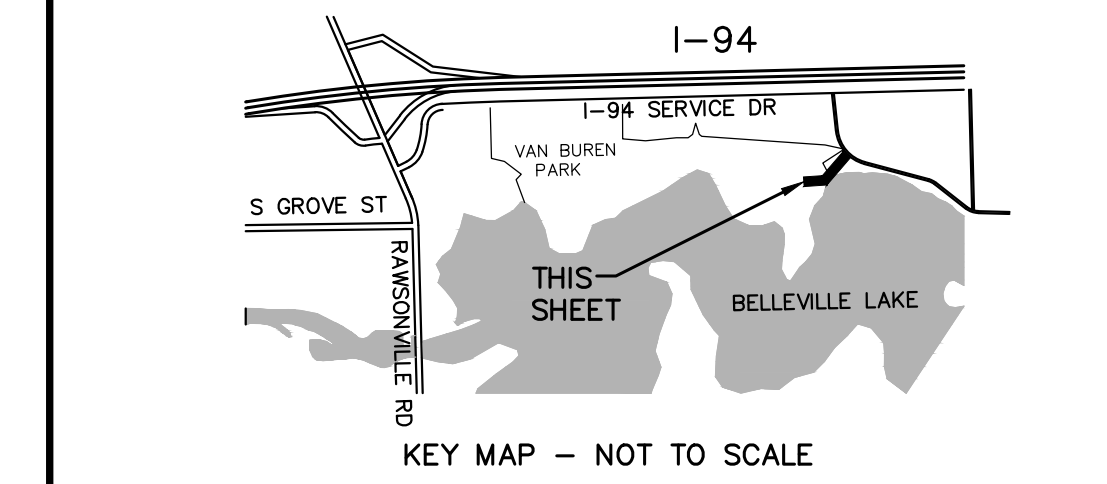
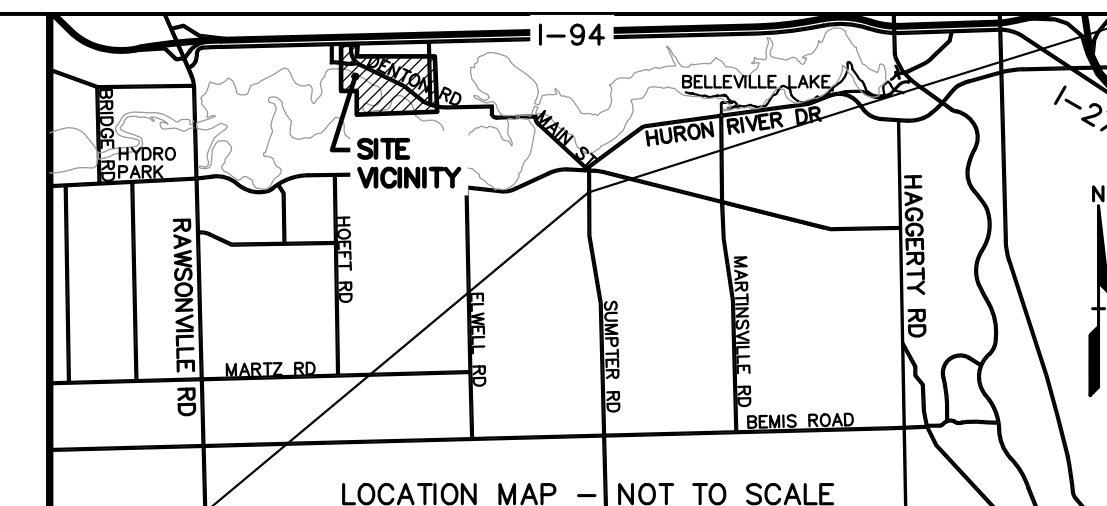


MATCH LINE - SEE SHEET C-4.2

MATCH LINE - SEE THIS SHEET

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TRAIL PLAN VIEW



LEGEND

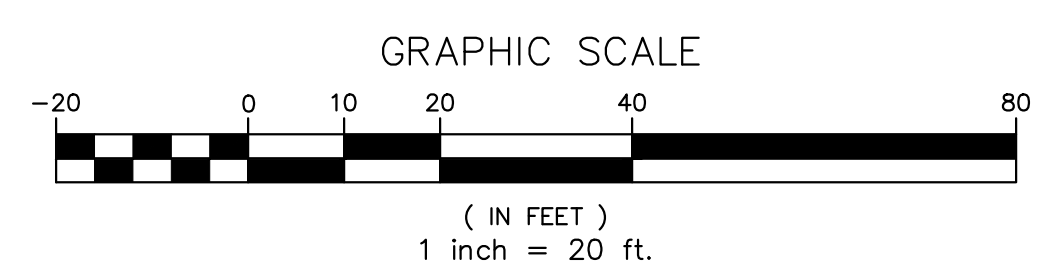
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- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND
- SILT FENCE
- LOW POINT INLET FILTER
- RYCB INLET FILTER
- EROSION CONTROL BLANKET
- TEMPORARY SEED AND MULCH
- LIMITS OF DISTURBANCE
- TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)



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SYMBOLS: EROSION CONTROL:

- SILT FENCE
- LOW POINT INLET FILTER
- RYCB INLET FILTER
- EROSION CONTROL BLANKET
- TEMPORARY SEED AND MULCH
- LIMITS OF DISTURBANCE
- TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)

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NO.	DATE	BY	CHKD	DESCRIPTION
1	03/19/2021	JMR	JW	ISSUED FOR PERMIT
2	03/19/2021	JMR	JW	REVISED PER COMMENTS

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 VAN BUREN TOWNSHIP, MI 48111
 IRON BELLE TRAIL-SECTION D

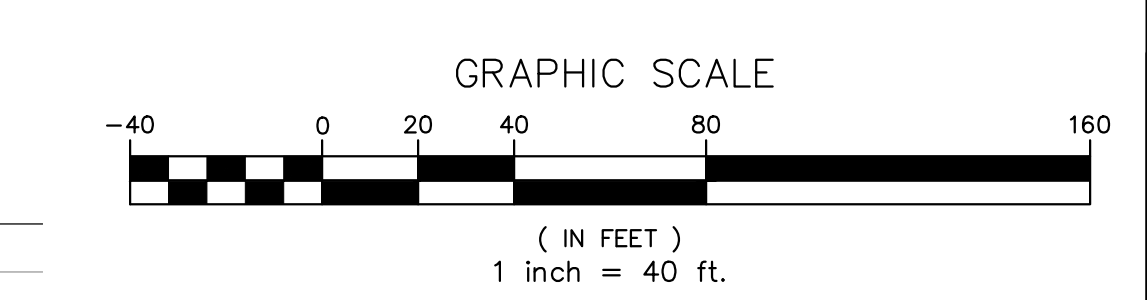
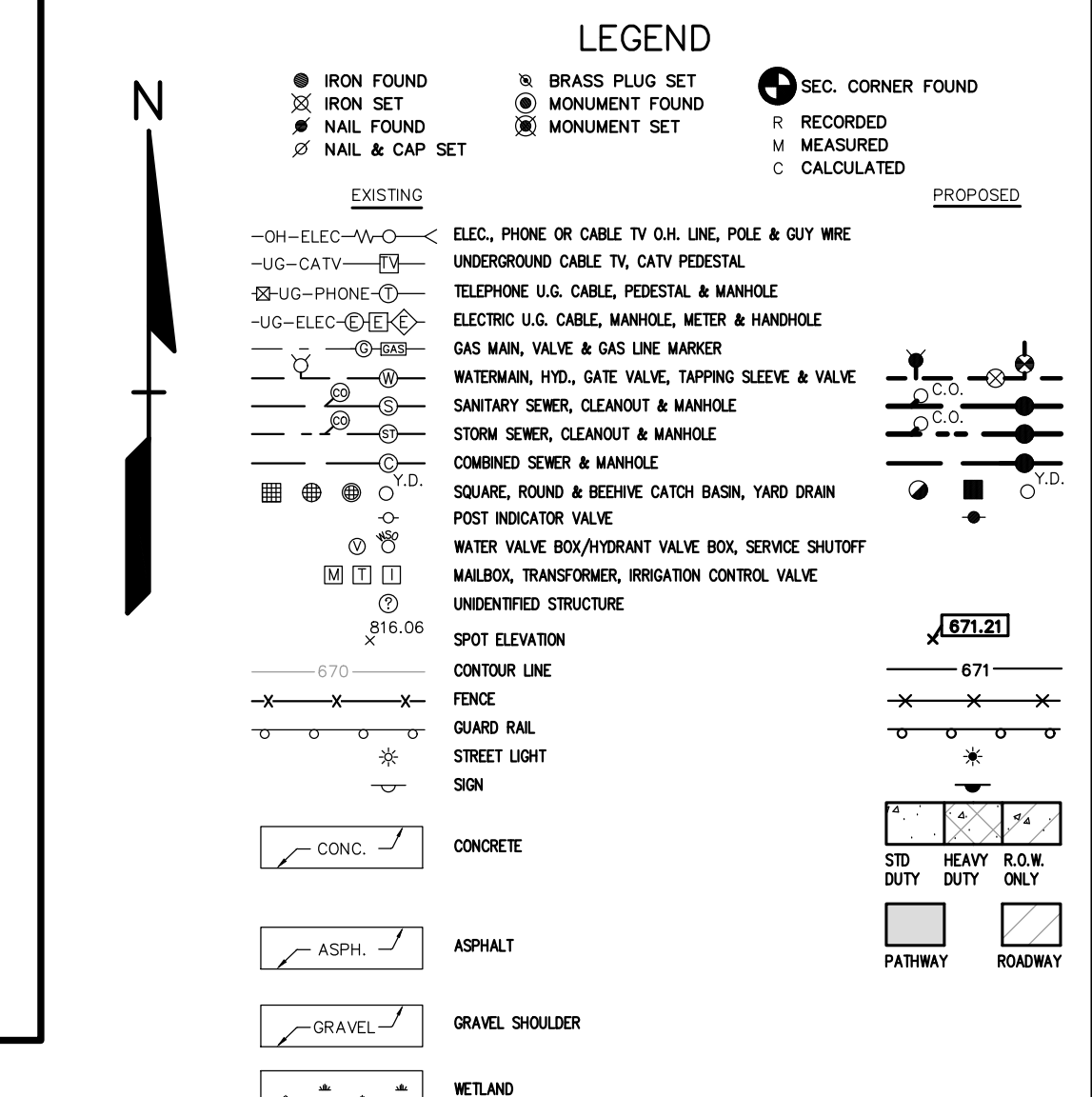
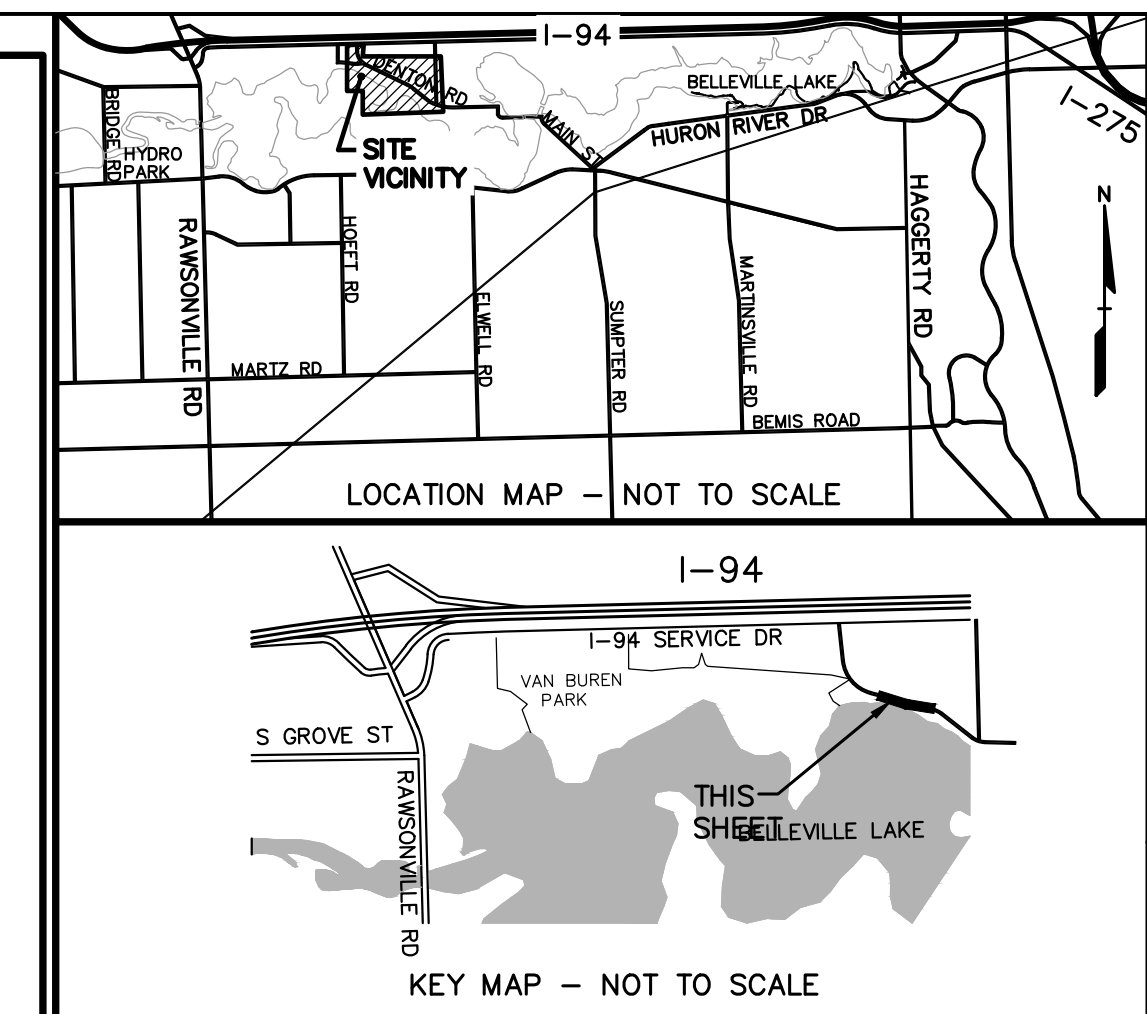
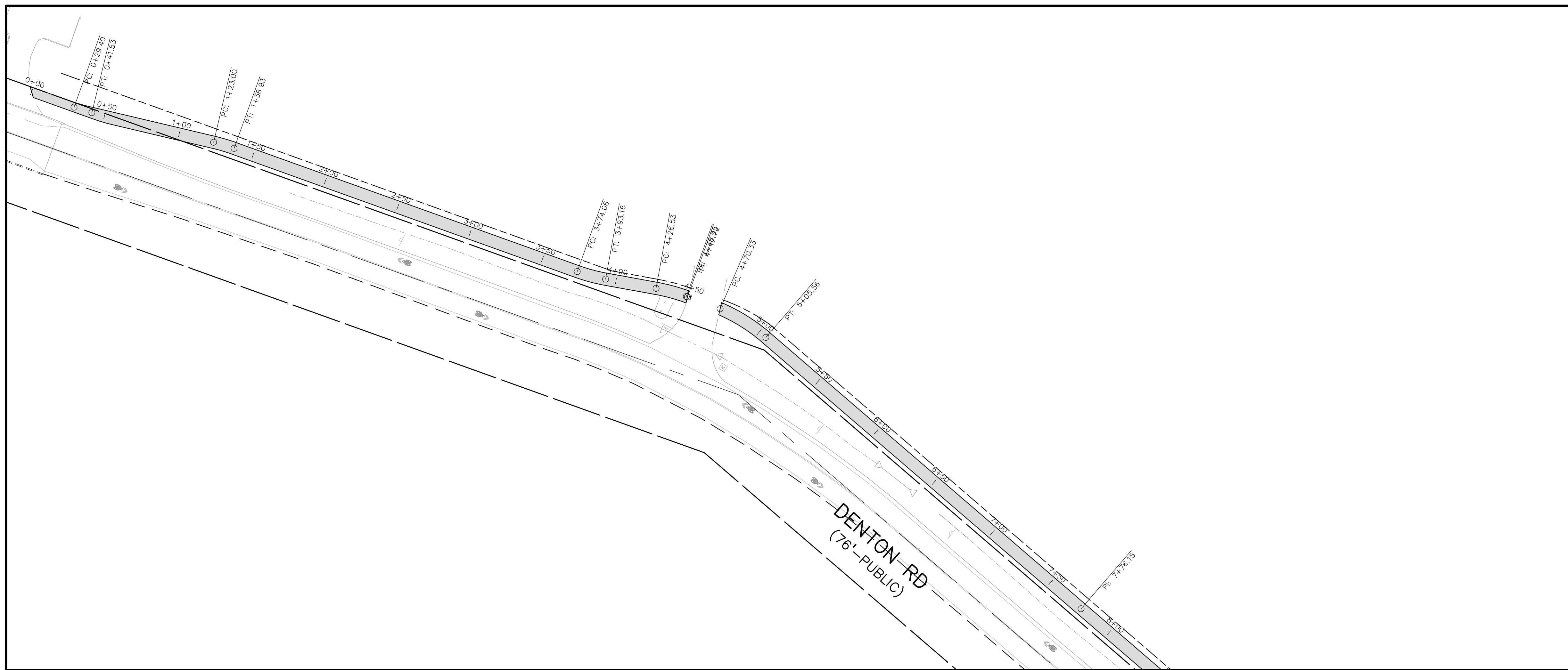
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 PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY-SECTION D\VC-4.0 (DRAFT)-19369.dwg

ORIGINAL ISSUE DATE:
 MARCH 19, 2021

PEA JOB NO. 2019-369

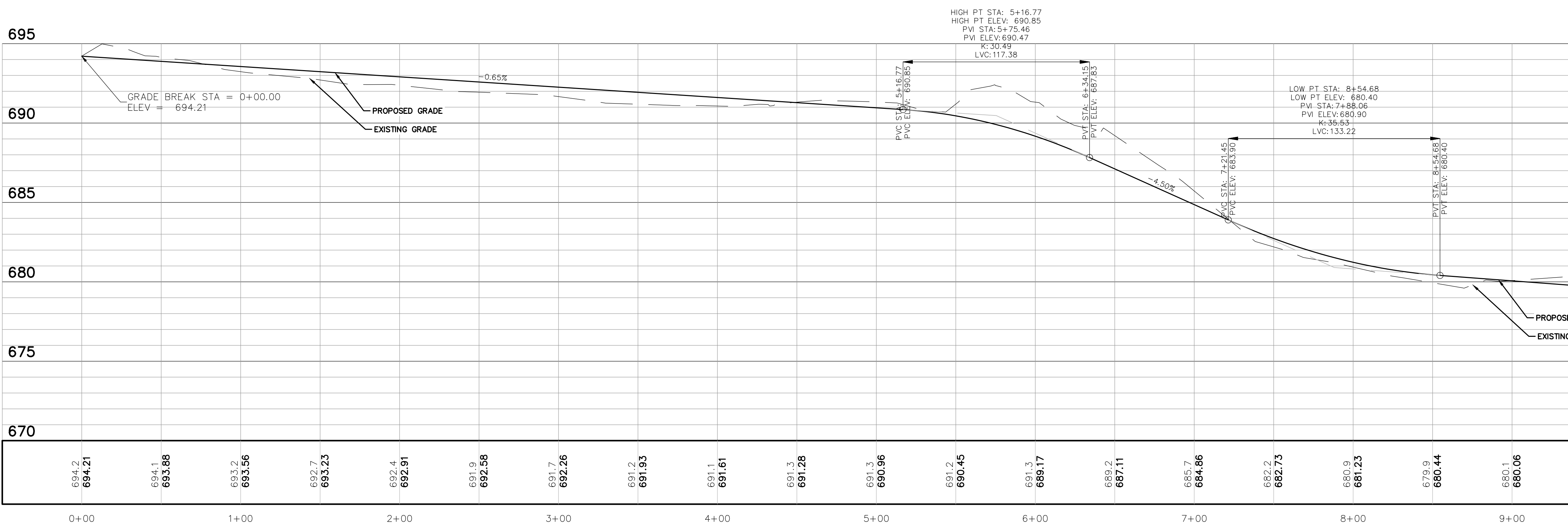
SCALE: 1" = 20'

DRAWING NUMBER:
C-4.5



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BENCHMARKS
 (GPS DERIVED - NAVD 88)
 BM #309
 1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
 ELEV. - 698.59



DENTON ROAD PA

NOT FOR CONSTRUCTION
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369_VB PARKWAY PLANS\X-SURF D-19369.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369_VB PARKWAY PLANS\X-TOPBASE.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369_VB PARKWAY PLANS\X-BASE D-19369.DWG
 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369_VB PARKWAY PLANS\X-TLBK-19369.DWG

REVISIONS	
1	1. EBT JMR JWC
2	2. BPT JMR JWC
3	3. JMR JWC
4	4. JMR JWC
5	5. JMR JWC
6	6. JMR JWC
7	7. JMR JWC
8	8. JMR JWC
9	9. JMR JWC
10	10. JMR JWC
11	11. JMR JWC
12	12. JMR JWC
13	13. JMR JWC
14	14. JMR JWC
15	15. JMR JWC
16	16. JMR JWC
17	17. JMR JWC
18	18. JMR JWC
19	19. JMR JWC
20	20. JMR JWC

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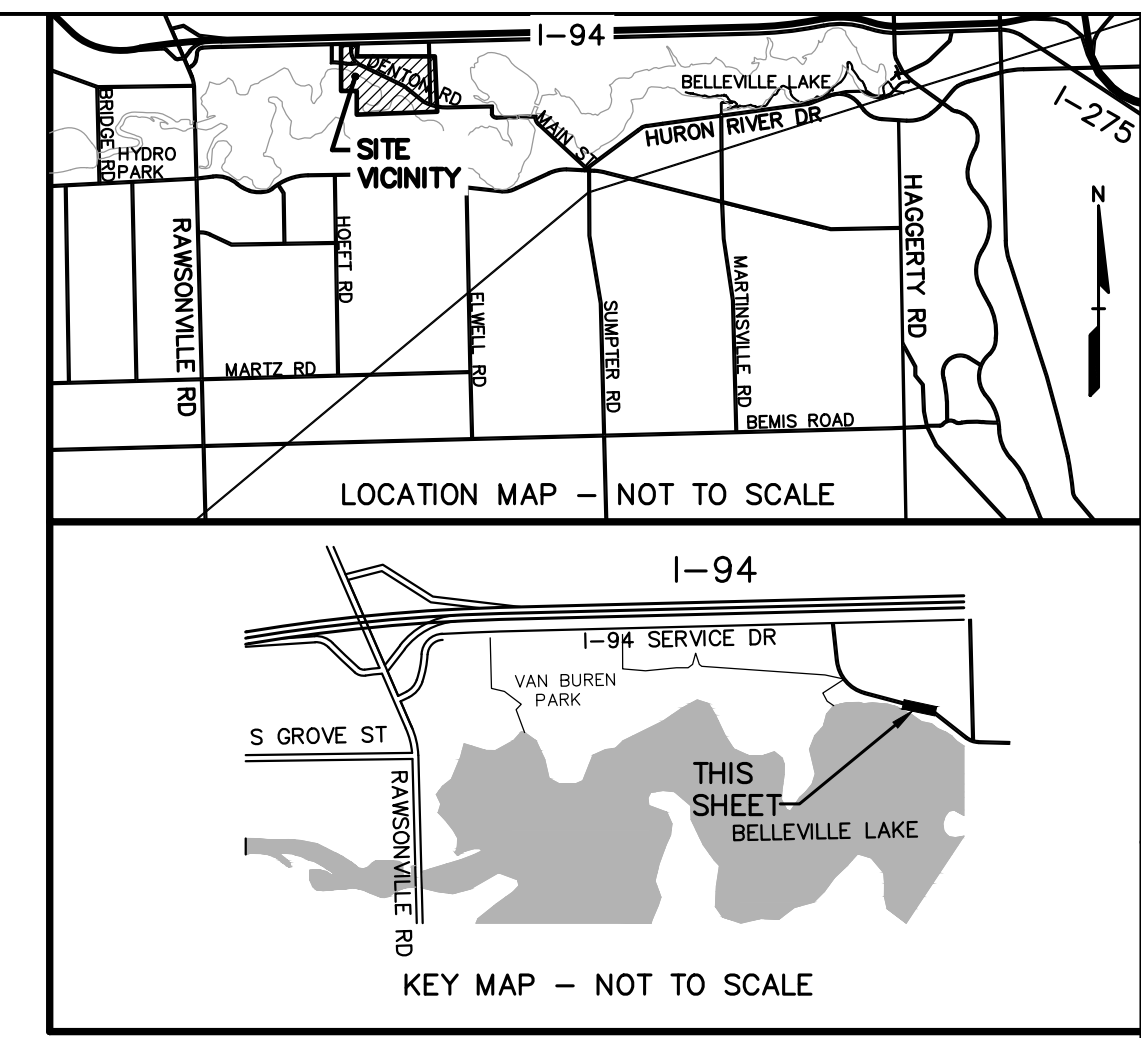
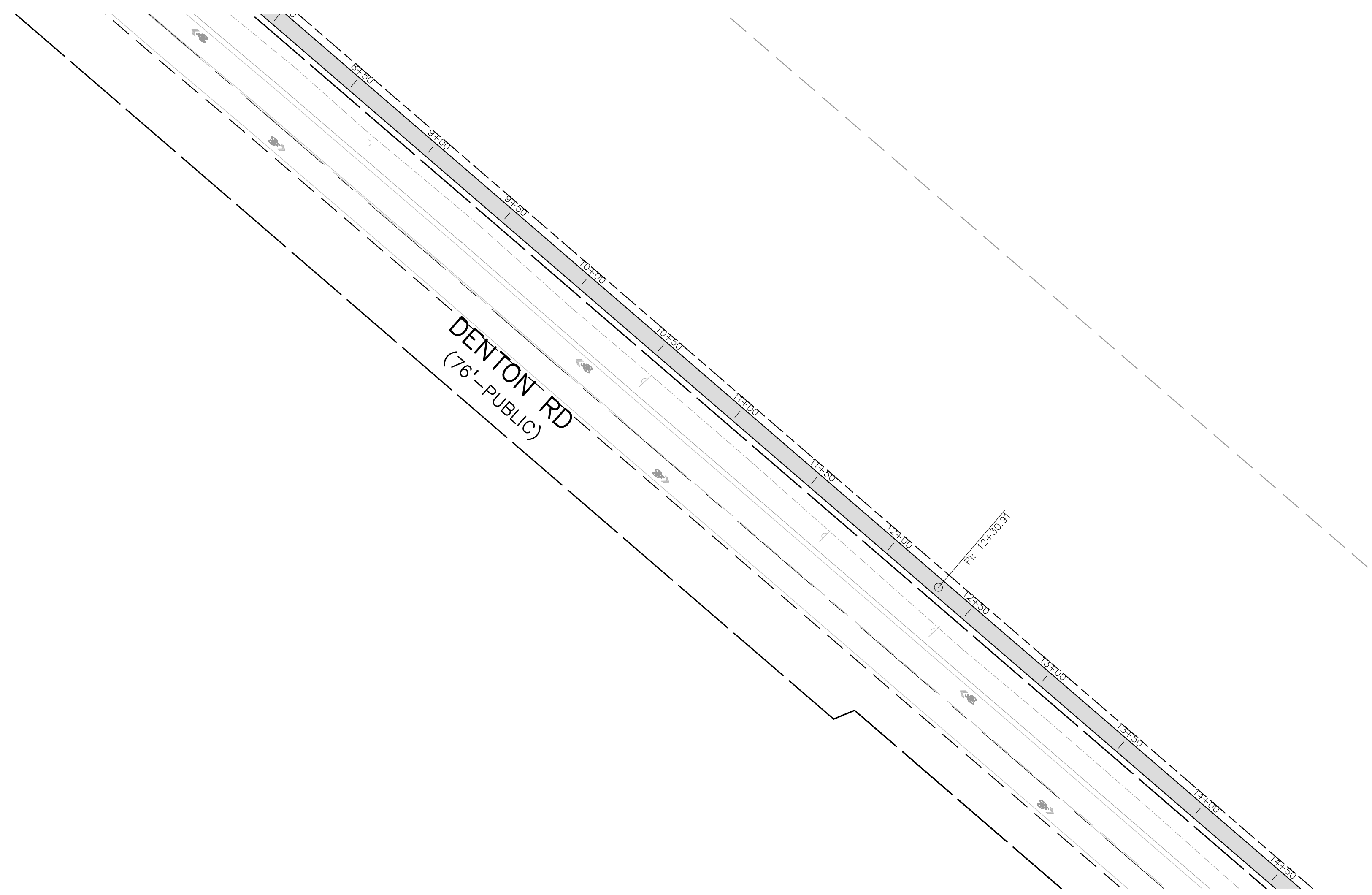
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DENTON ROAD PLAN AND PROFILE									
IRON BELLE TRAIL-SECTION D									
WAYNE COUNTY, MI									

ORIGINAL ISSUE DATE:
 MARCH 19, 2021
 PEA JOB NO. 2019-369
 SCALE: 1"=20'
 DRAWING NUMBER:
C-4.6



LEGEND

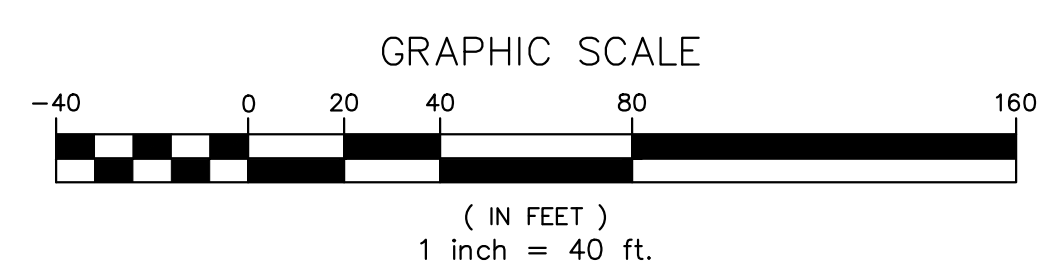
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⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC—V—ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAN, VALVE & GAS LINE MARKER
- WATERMAN, HD., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEDDIE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/IRRIANT VALVE BOX, SERVICE SHUTOFF
- MARBOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE

PROPOSED

- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC.—CONCRETE
- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND

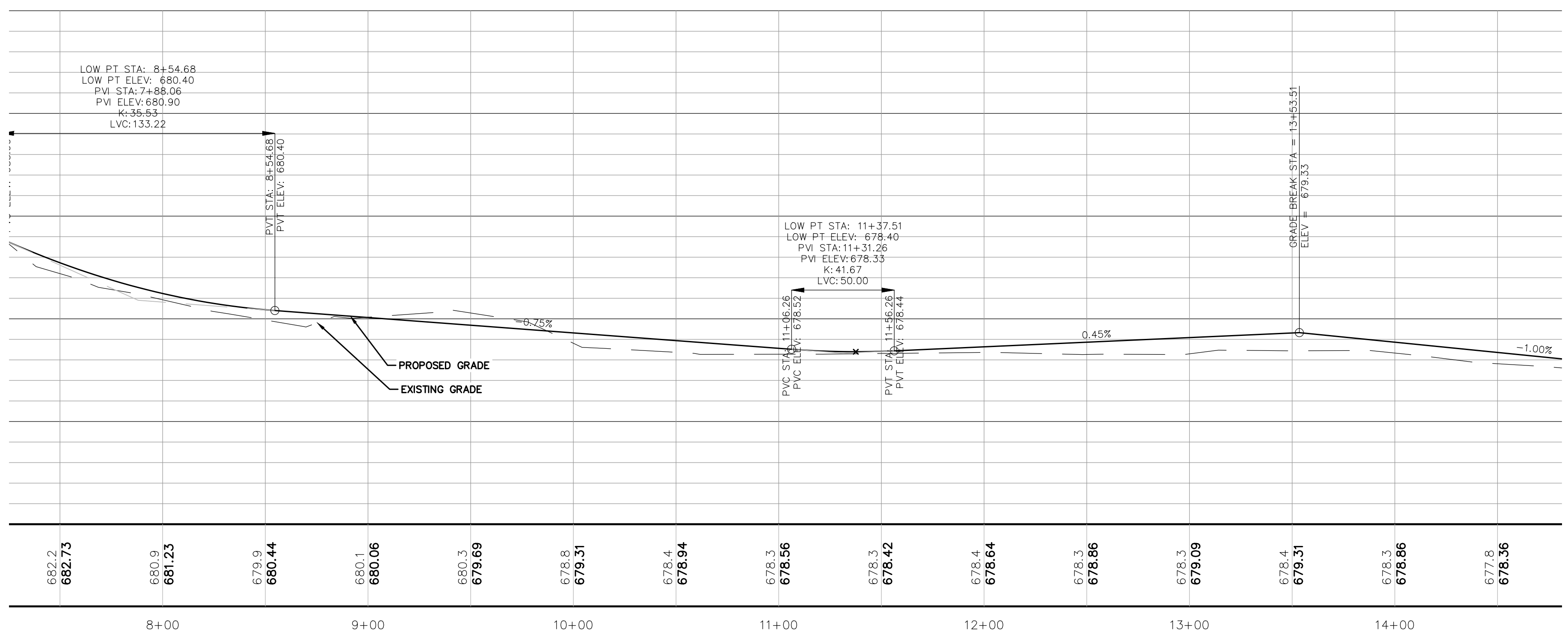


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BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV.— 698.59



DENTON ROAD PATH PROFILE

REVISIONS	
1.	1. EBT, JMR, JWC, REVISIONS
2.	2. EBT, JMR, JWC, REVISIONS
3.	3. EBT, JMR, JWC, REVISIONS

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DENTON ROAD PLAN AND PROFILE
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

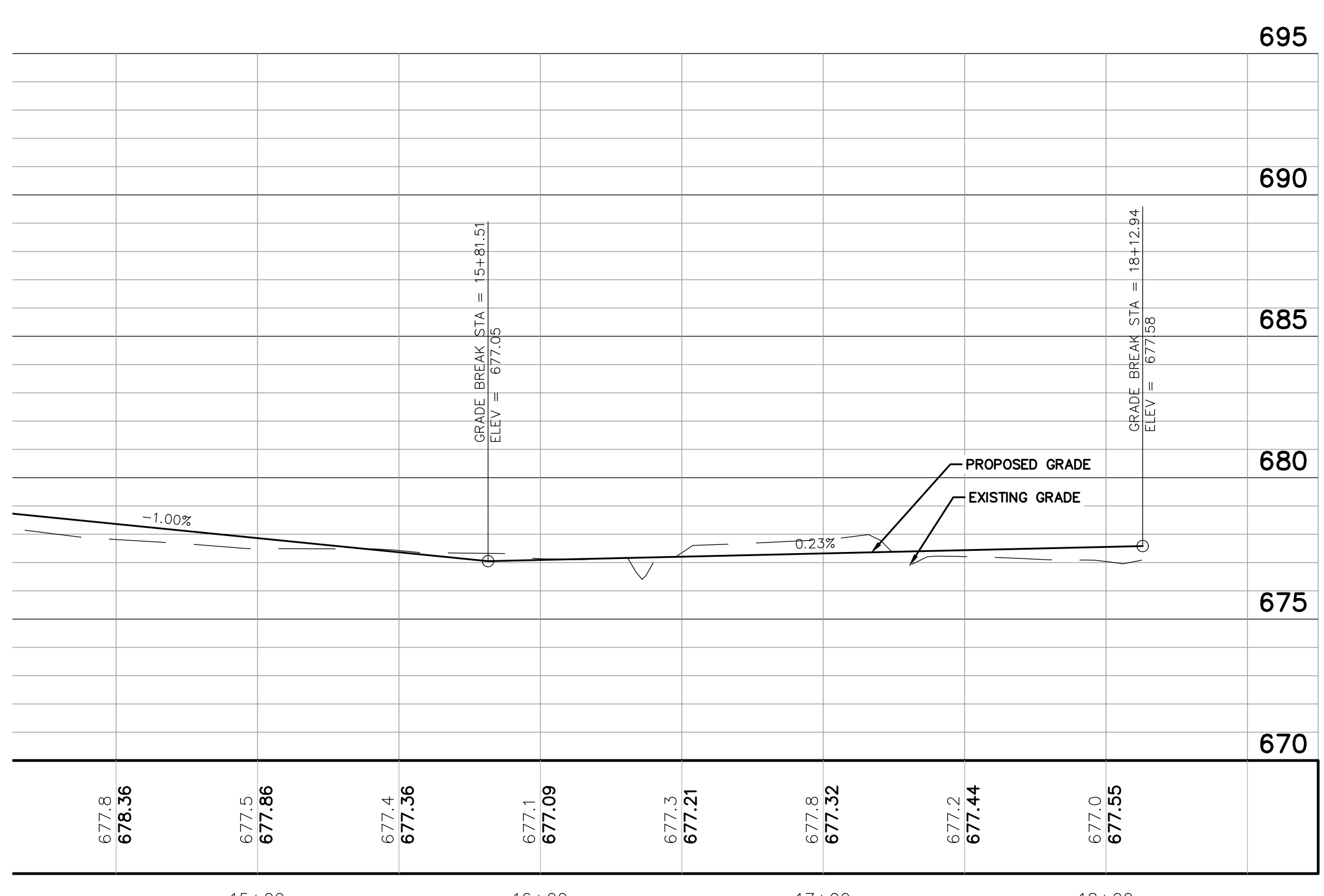
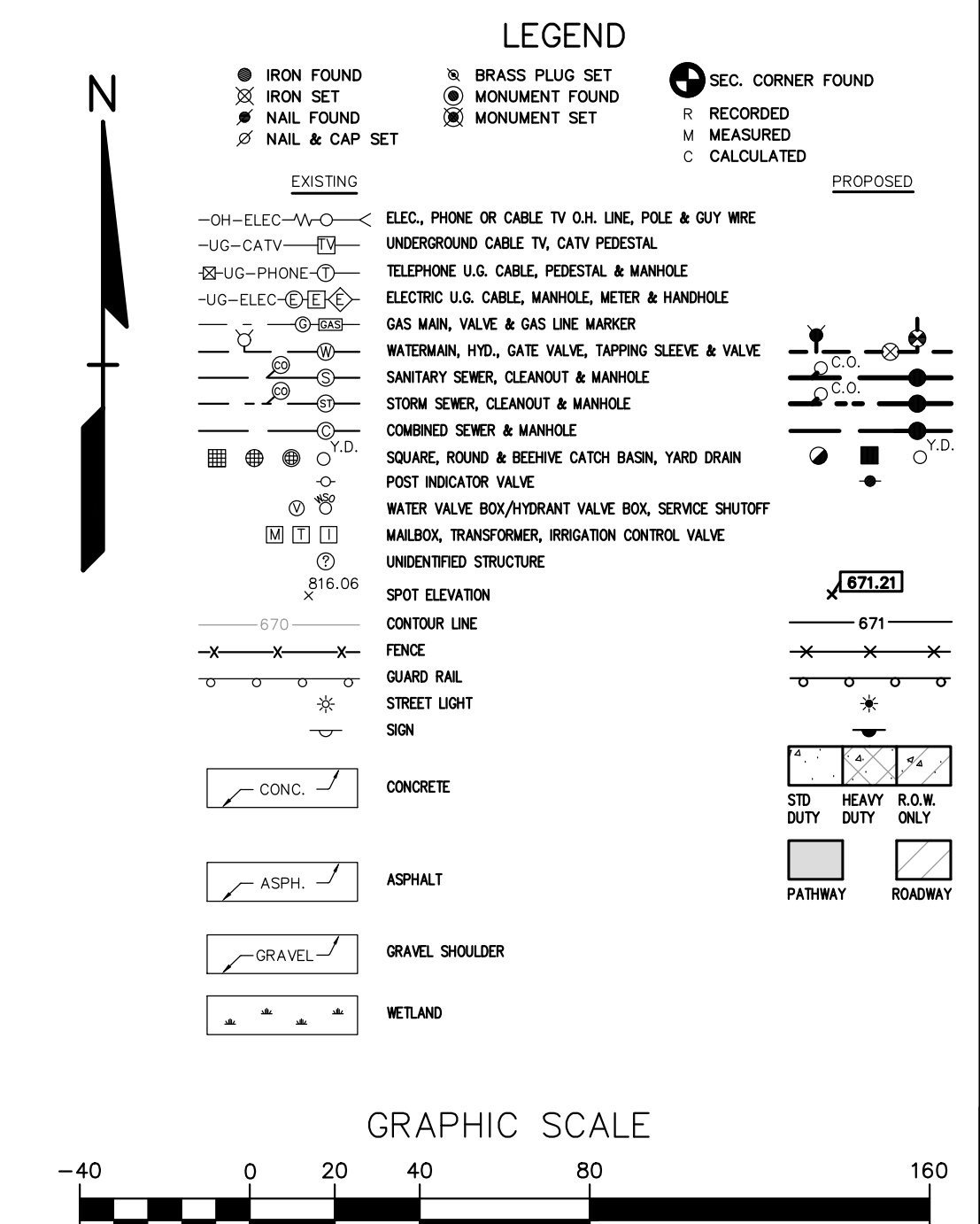
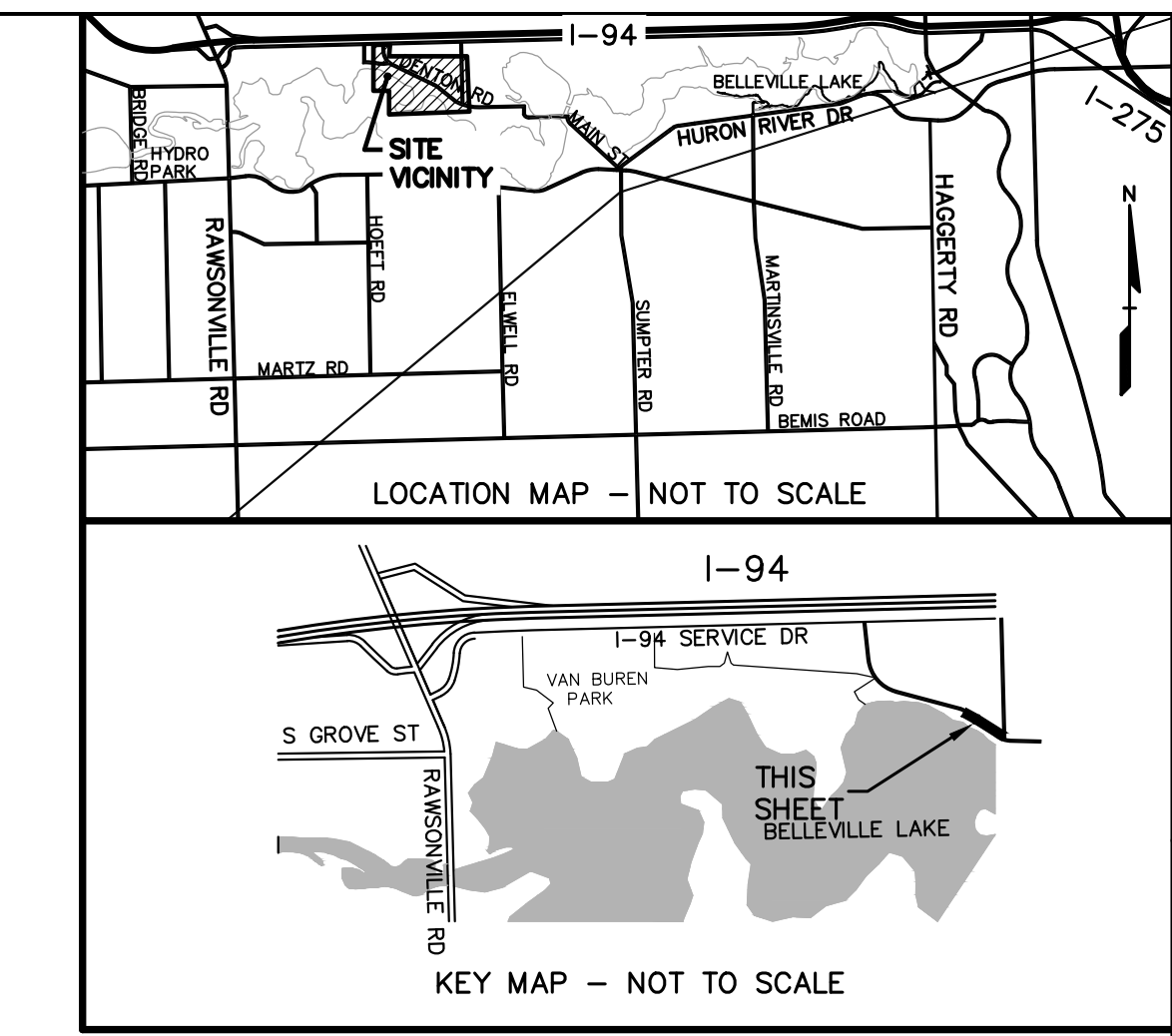
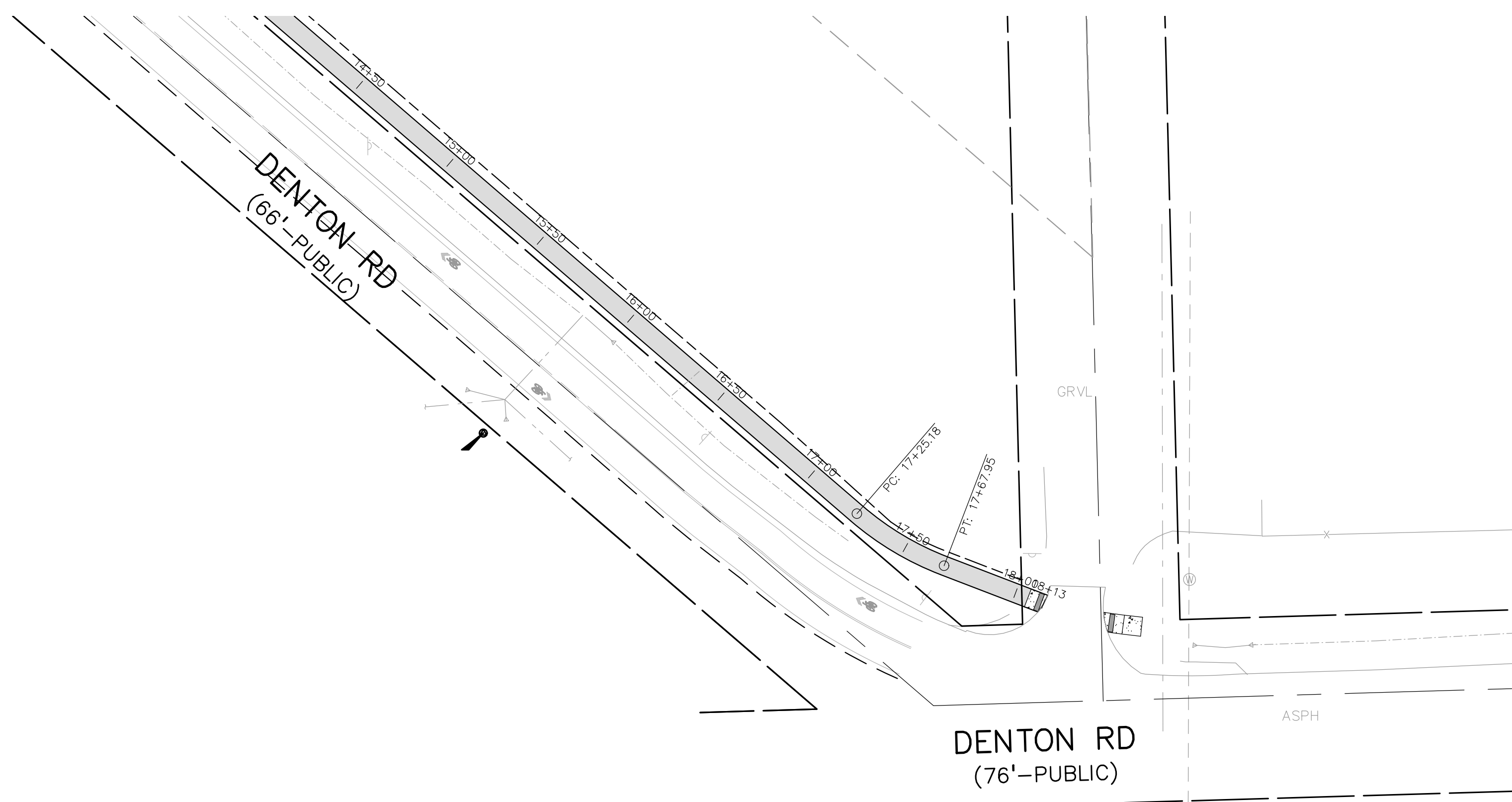
PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-4.7

NOT FOR CONSTRUCTION

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 1/2" IRON ROD WITH CAP. 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
 ELEV. - 698.59

REVISIONS	
1.	1. B.T. (MKT) TO REVISIONS
2.	2. B.T. (MKT) TO REVISIONS
3.	3. B.T. (MKT) TO REVISIONS
4.	4. B.T. (MKT) TO REVISIONS
5.	5. B.T. (MKT) TO REVISIONS
6.	6. B.T. (MKT) TO REVISIONS
7.	7. B.T. (MKT) TO REVISIONS
8.	8. B.T. (MKT) TO REVISIONS
9.	9. B.T. (MKT) TO REVISIONS
10.	10. B.T. (MKT) TO REVISIONS

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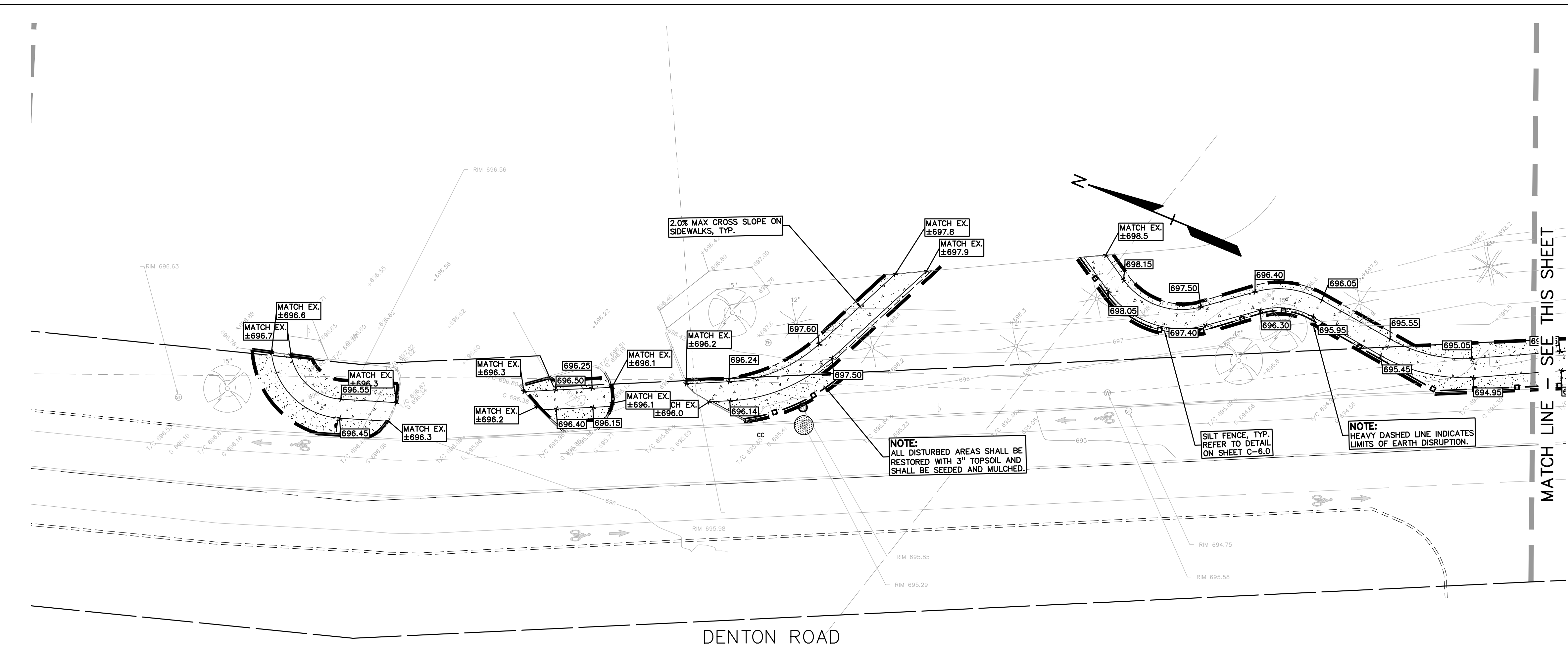
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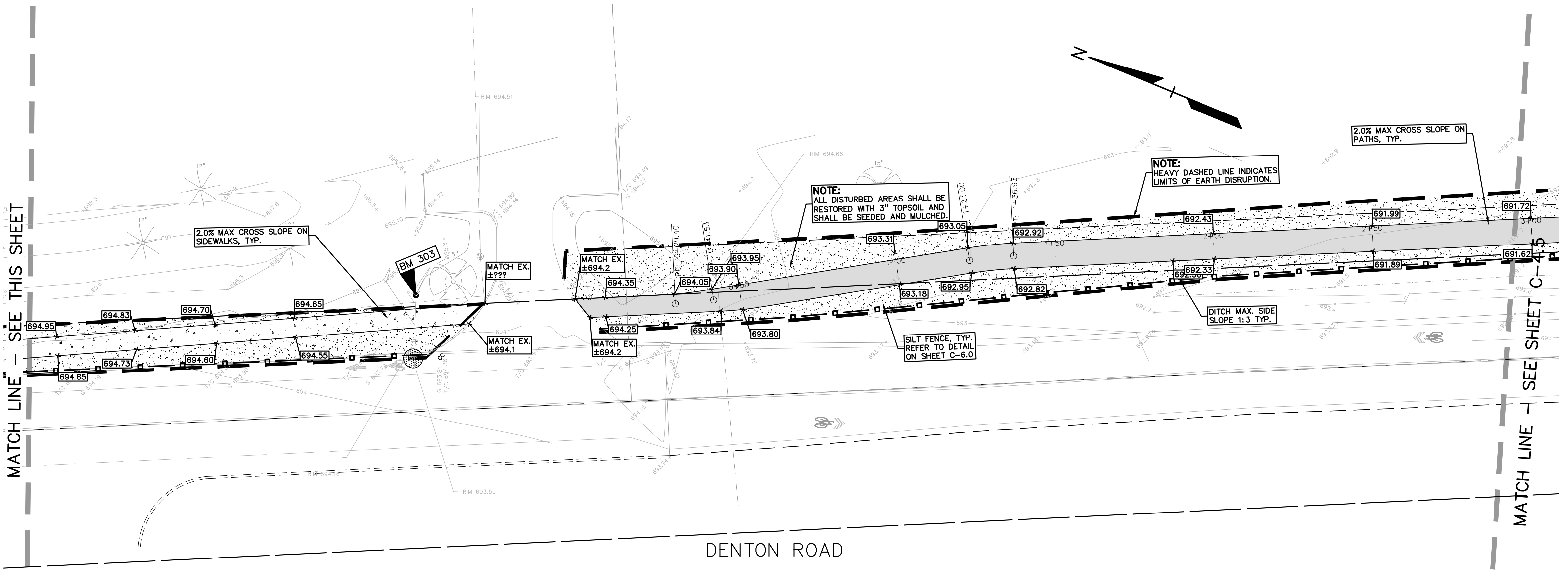
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 VAN BUREN TOWNSHIP, MI 48111
GRADING AND SEC
IRON BELLE TRAIL-SECTION D
 WAYNE COUNTY, MI
 DES: JMR DN SUR: JW P.M. US
 S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.dwg
 S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TBLK-19369.dwg

ORIGINAL ISSUE DATE:
 MARCH 19, 2021
 PEA JOB NO. 2019-369
 SCALE: 1"=20'
 DRAWING NUMBER:
C4.8

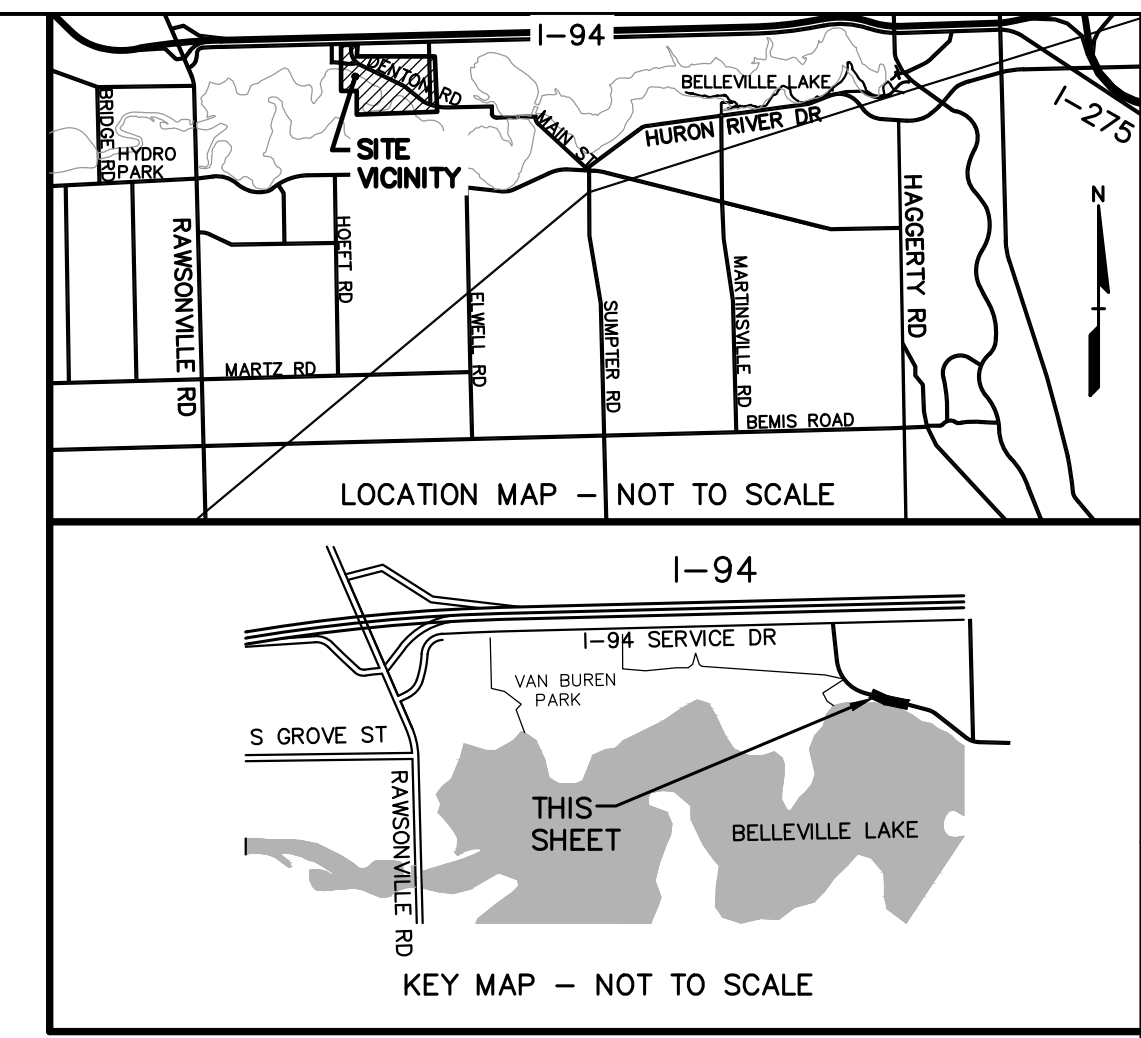
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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TOPBASE.dwg
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DENTON ROAD BIKE LANE AND SIDEWALK
PLAN VIEW



DENTON ROAD BIKE LANE/SHARROW AND
SIDEWALK PLAN VIEW



LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC—V—ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS—GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAN, IND., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY—SANITARY SEWER, CLEANOUT & MANHOLE
- STORM—STORM SEWER, CLEANOUT & MANHOLE
- COMBINED—COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEDDIE CATCH BASIN, YARD DRAIN
- POST—POST INDICATOR VALVE
- WATER VALVE BODY/IRRIANT VALVE BOX, SERVICE SHUTOFF
- MARBOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED—UNIDENTIFIED STRUCTURE
- SPOT—SPOT ELEVATION
- 670—CONTOUR LINE
- FENCE—FENCE
- RAIL—GUARD RAIL
- STREET—STREET LIGHT
- SIGN—SIGN

PROPOSED

- CONC.—CONCRETE
- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND—WETLAND
- SID DUTY—SID DUTY
- HEAVY R.O.M. DUTY ONLY—HEAVY R.O.M. DUTY ONLY
- PATHWAY—PATHWAY
- ROADWAY—ROADWAY

GRAPHIC SCALE

20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SYMBOLS: EROSION CONTROL:

- SILT FENCE
- LOW POINT INLET FILTER
- RYCB INLET FILTER
- EROSION CONTROL BLANKET
- TEMPORARY SEED AND MULCH
- LIMITS OF DISTURBANCE
- TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)

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48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

GRADING AND SEC
IRON BELLE TRAIL-SECTION D

DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-4.9

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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REVISIONS	
1.	BY: JMR DATE: 11/20/21
2.	BY: JMR DATE: 11/20/21

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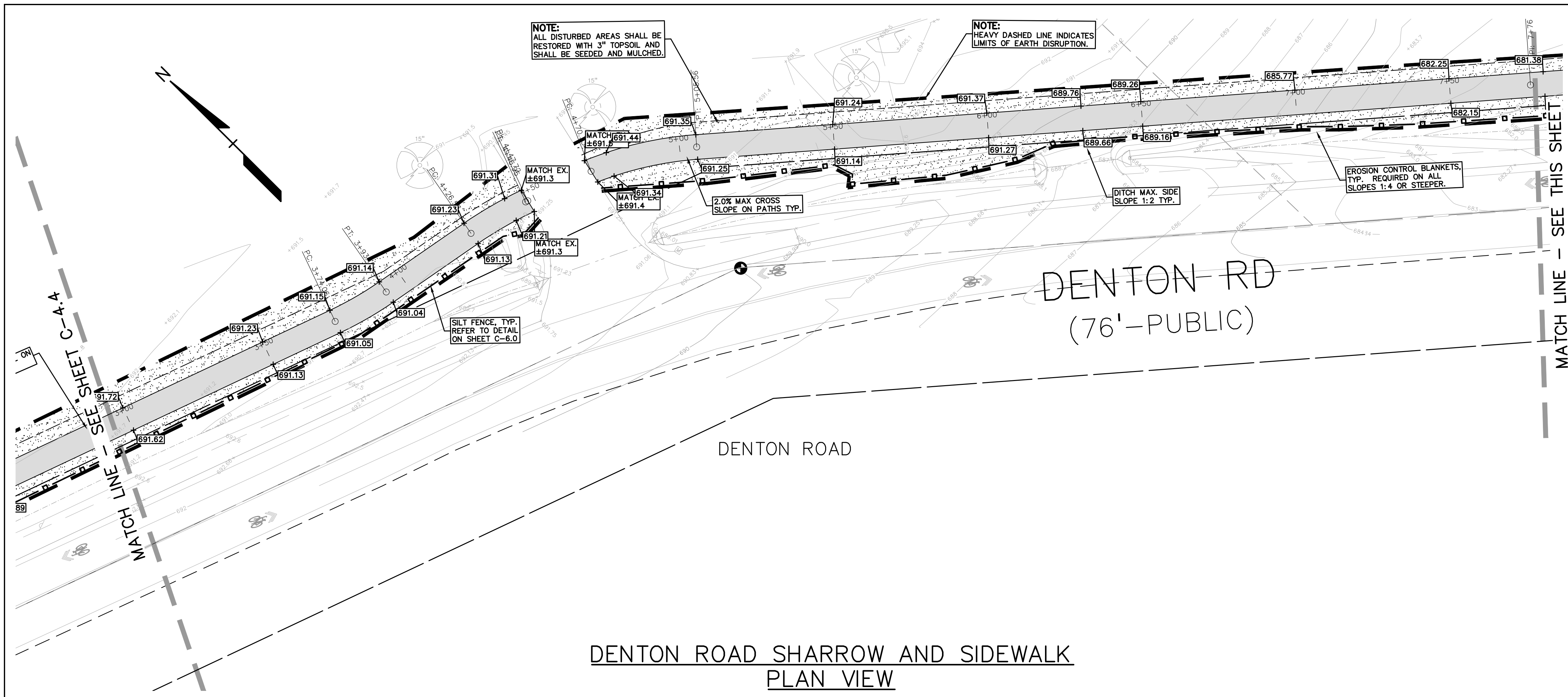
DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
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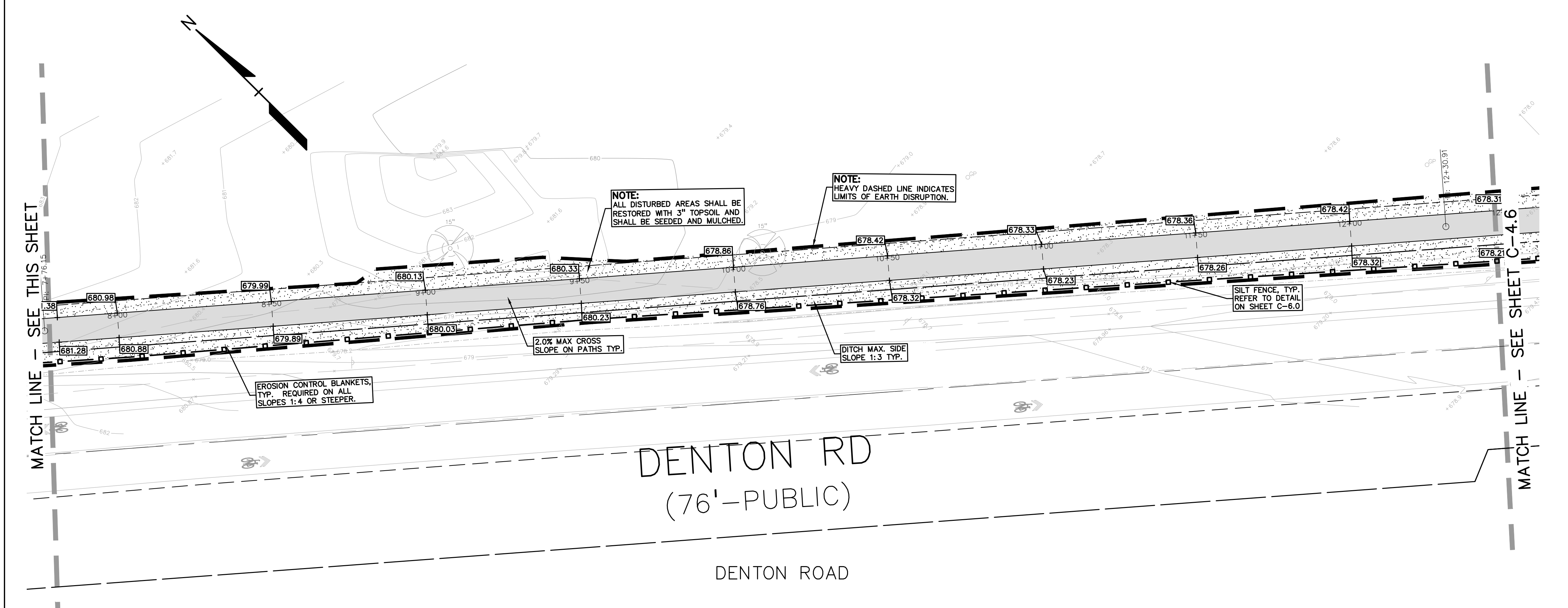
PEA JOB NO. 2019-369

SCALE: 1"=20'

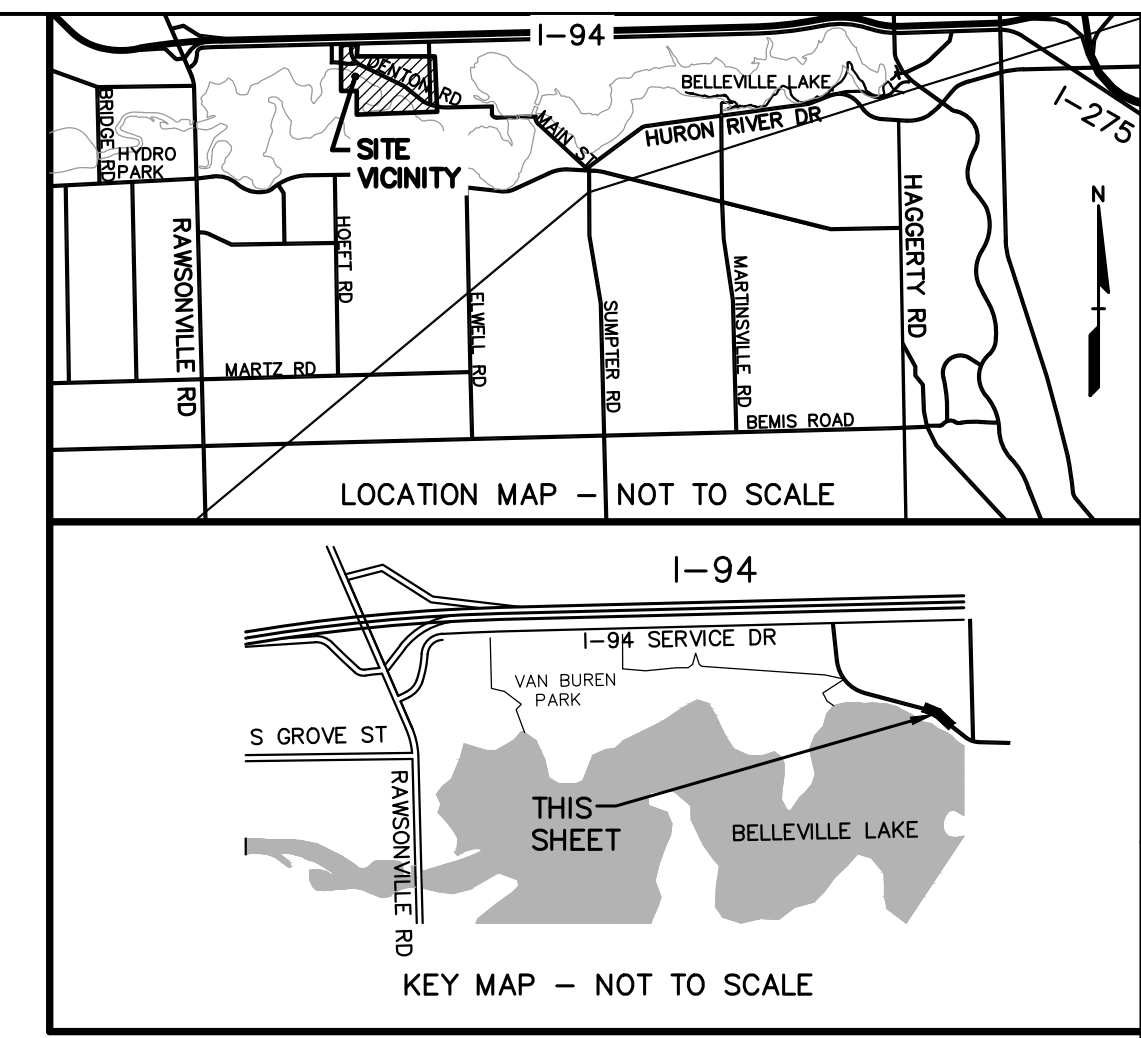
DRAWING NUMBER:
C-4.9



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



LEGEND

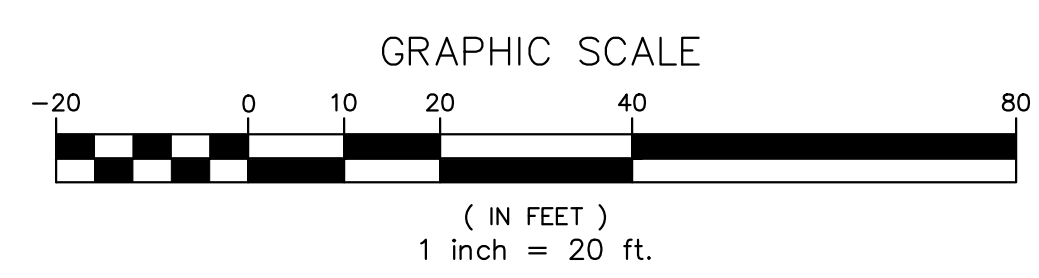
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⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL & CAP SET	⊗ MONUMENT SET	⊙ MEASURED
		⊙ CALCULATED

EXISTING

- OH-ELEC—W—ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—ELEC. TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—ELEC. ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAN, VALVE & GAS LINE MARKER
- WATERMAN, IND., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEDDIE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/IRRIANT VALVE BOX, SERVICE SHUTOFF
- MARBOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN

PROPOSED

- CONC.—CONCRETE
- ASPH.—ASPHALT
- GRAVEL—GRAVEL SHOULDER
- WETLAND
- SID.—SIDING
- HEAVY DUTY ONLY
- R.O.M. ONLY
- PATHWAY
- ROADWAY



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.

SYMBOLS: EROSION CONTROL:

—	SILT FENCE
⊙	LOW POINT INLET FILTER
⊙	RYCB INLET FILTER
—	EROSION CONTROL BLANKET
—	TEMPORARY SEED AND MULCH
—	LIMITS OF DISTURBANCE
—	TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)

REVISIONS

1.	BY: JMR	DATE: 1-10-20
2.	BY: JMR	DATE: 1-10-20

CAUTION!

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48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

GRADING AND SEC
IRON BELLE TRAIL-SECTION D

DES: JMR DN: SUR: JW P.M. US
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

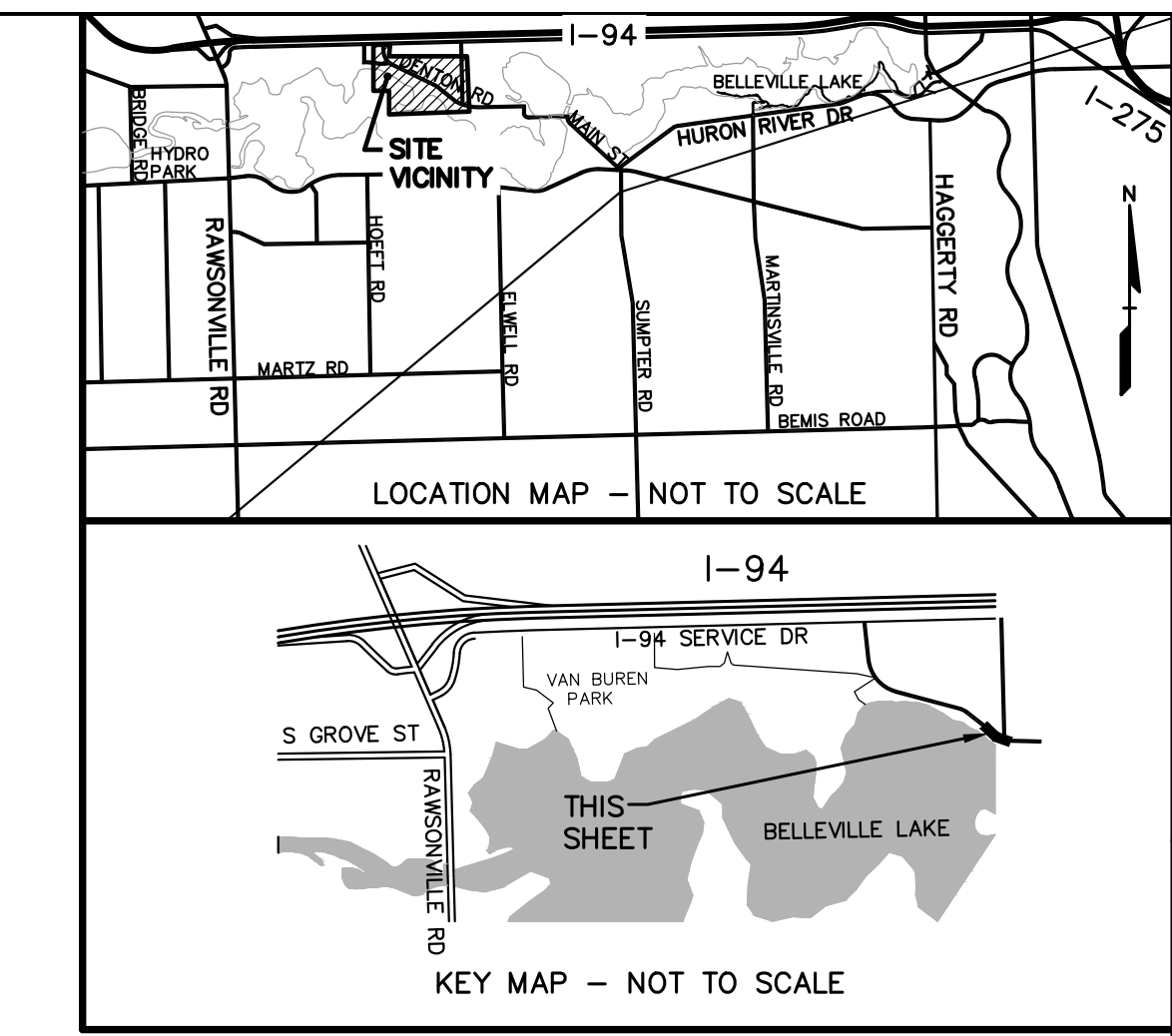
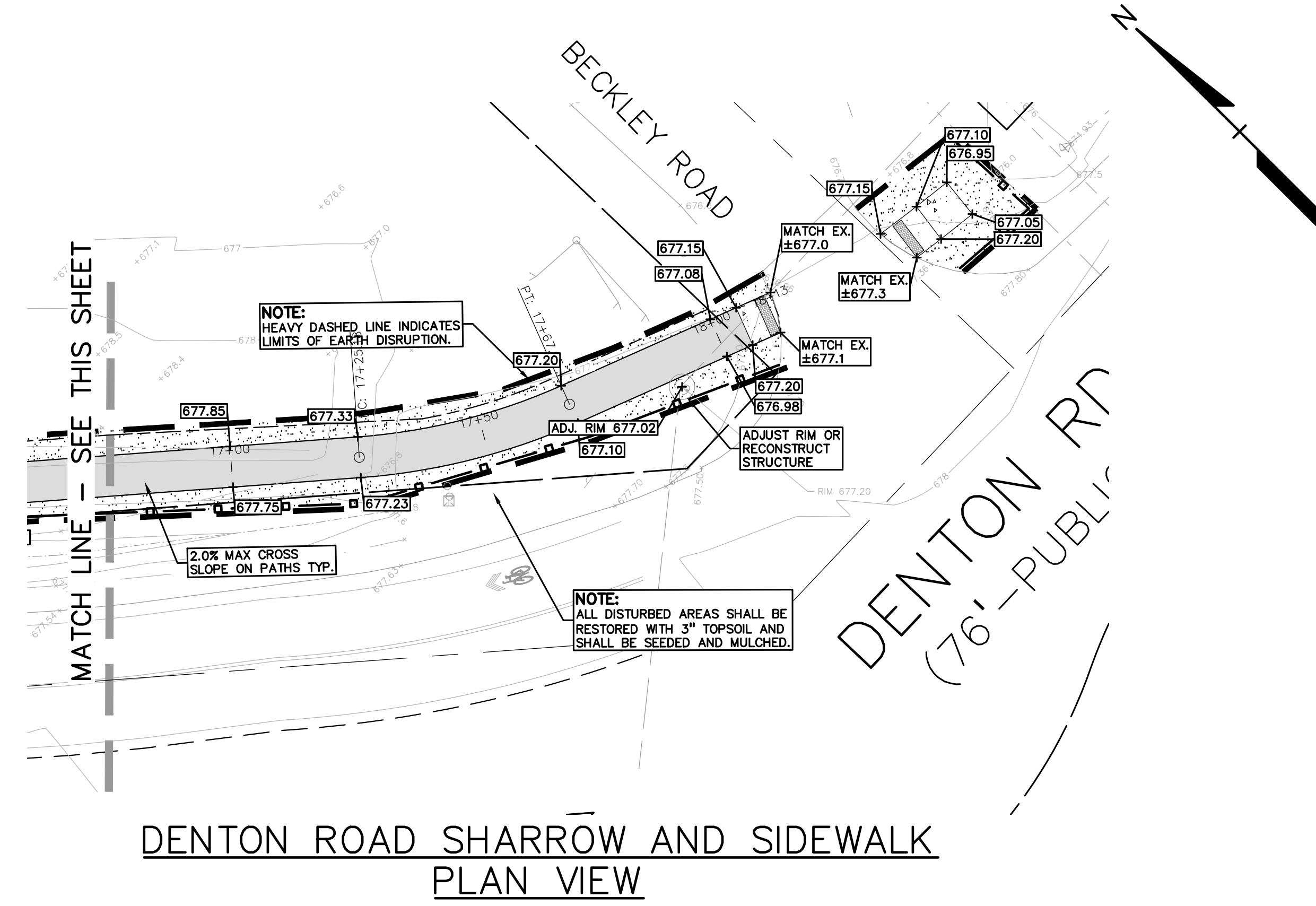
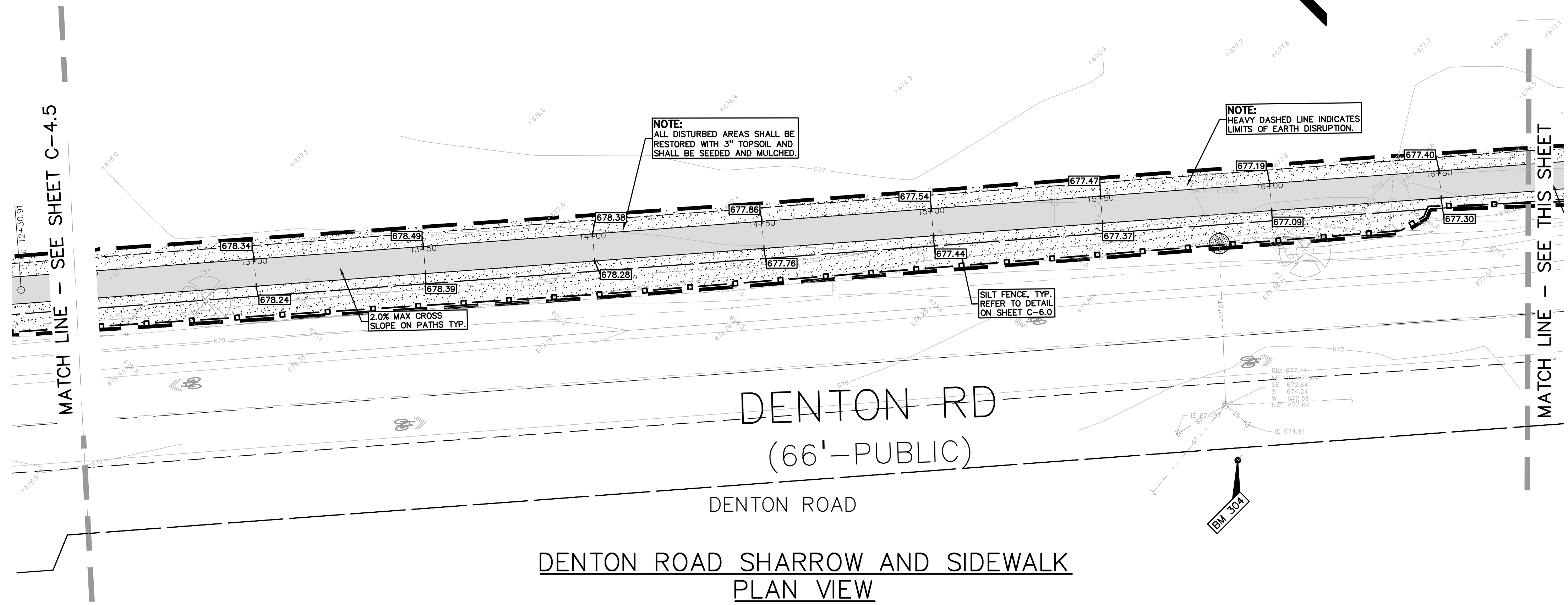
PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-4.10

NOT FOR CONSTRUCTION

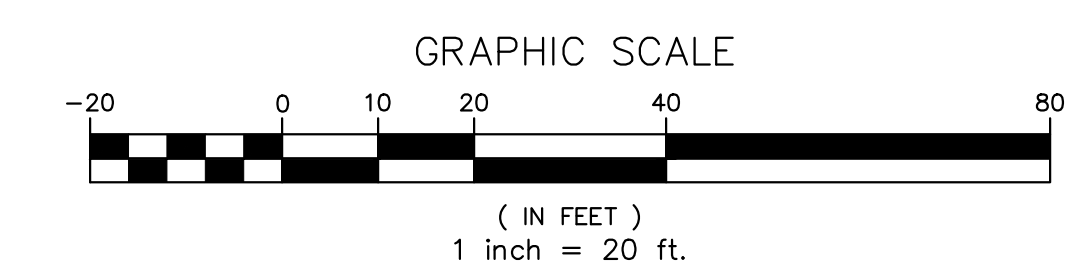
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TLX-K-19369.DWG



LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL & CAP SET	⊗ MONUMENT SET	⊙ MEASURED
		⊙ CALCULATED

EXISTING	PROPOSED
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—UG-CATV—	—UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	—TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	—ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS—	—GAS MAIN, VALVE & GAS LINE MARKER
—WATER—	—WATERMAIN, HD., GATE VALVE, TAPPING SLEEVE & VALVE
—SEWER—	—SANITARY SEWER, CLEANOUT & MANHOLE
—STORM—	—STORM SEWER, CLEANOUT & MANHOLE
—COMB.—	—COMBINED SEWER & MANHOLE
—SQUARE—	—SQUARE, ROUND & BEDDING CATCH BASIN, YARD DRAIN
—POST—	—POST INDICATOR VALVE
—WATER—	—WATER VALVE BODY/ADJUTANT VALVE, SERVICE SHUTOFF
—M/BOL—	—M/BOL, TRANSFORMER, IRRIGATION CONTROL, VALVE
—UNID.—	—UNIDENTIFIED STRUCTURE
—SPOT—	—SPOT ELEVATION
—CONTOUR—	—CONTOUR LINE
—FENCE—	—FENCE
—GUARD—	—GUARD RAIL
—STREET—	—STREET LIGHT
—SIGN—	—SIGN
—CONC.—	—CONCRETE
—ASPH.—	—ASPHALT
—GRAVEL—	—GRAVEL SHOULDER
—WETLAND—	—WETLAND



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—	TEMPORARY SEED AND MULCH
—	LIMITS OF DISTURBANCE
—	TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)\DWG\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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REVISIONS

1.	1.01	ISSUED FOR PERMIT
2.	1.02	ISSUED FOR PERMIT

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GRADING AND SEC
IRON BELLE TRAIL-SECTION D

WAYNE COUNTY, MI

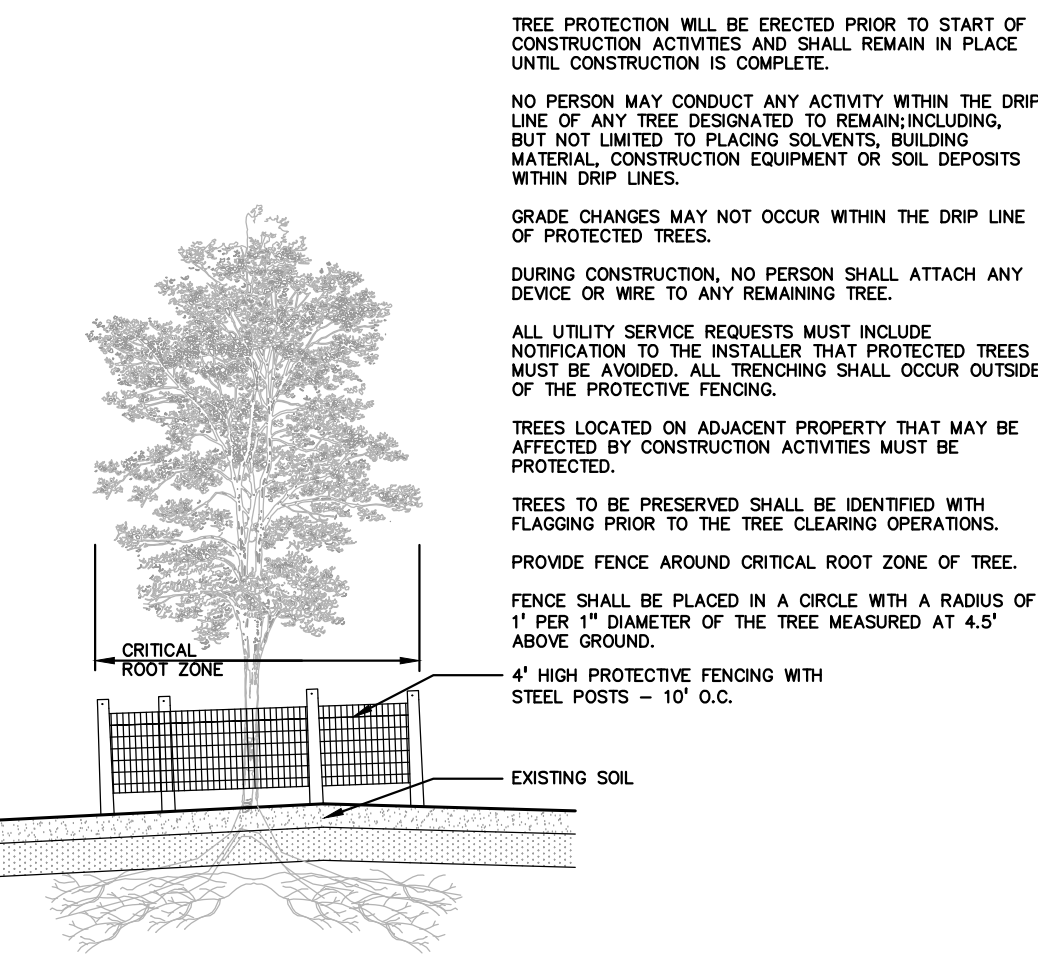
DES.	JMR	DN.	JW	SUR.	JW	P.M.	JS
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ORIGINAL ISSUE DATE:
MARCH 19, 2021

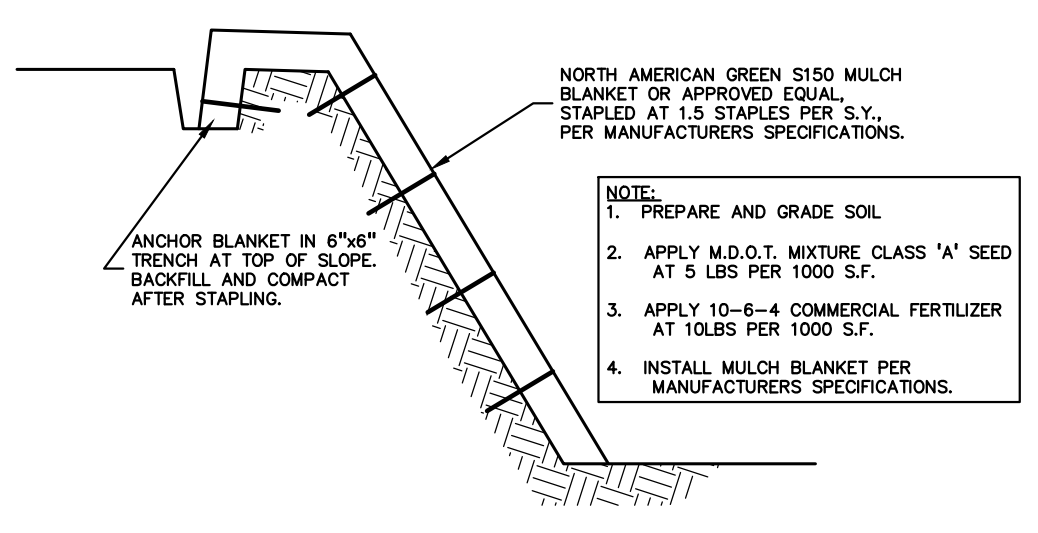
PEA JOB NO. 2019-369

SCALE: 1"=20'

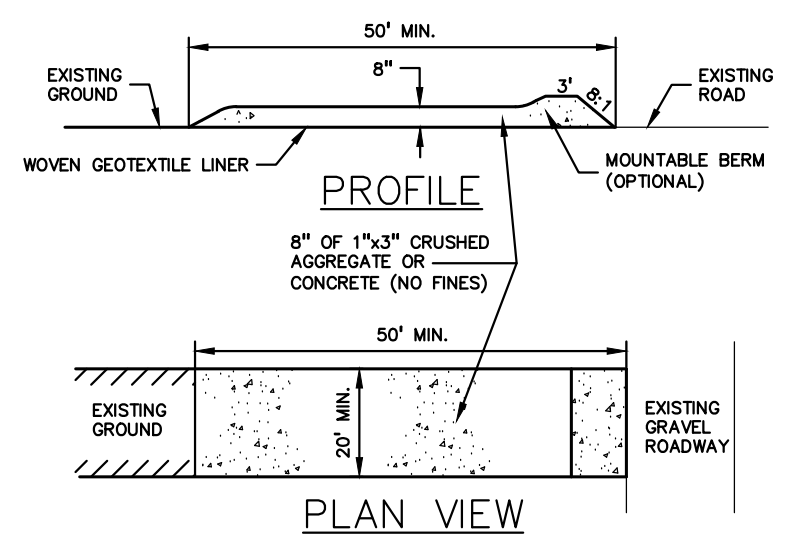
DRAWING NUMBER:
C-4.11



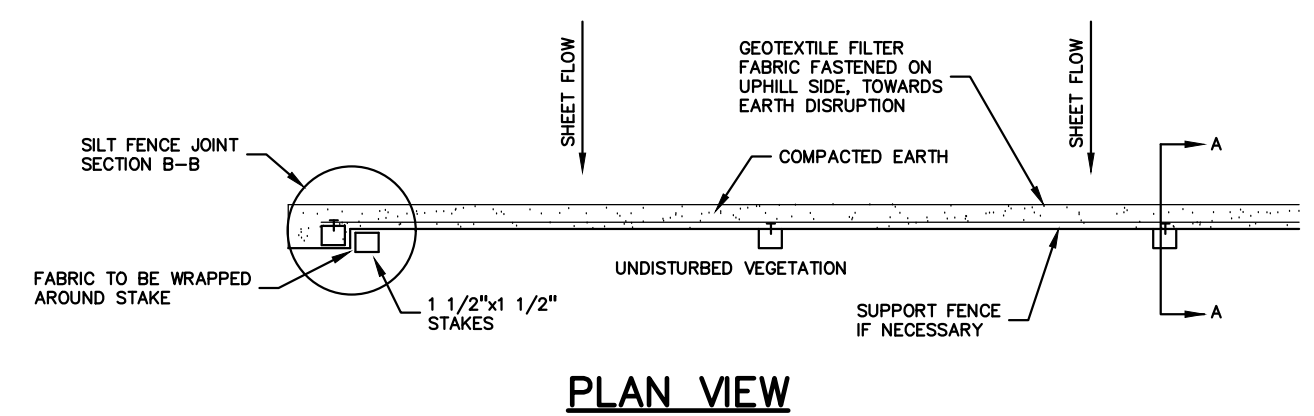
TREE PROTECTION DETAIL
NOT TO SCALE



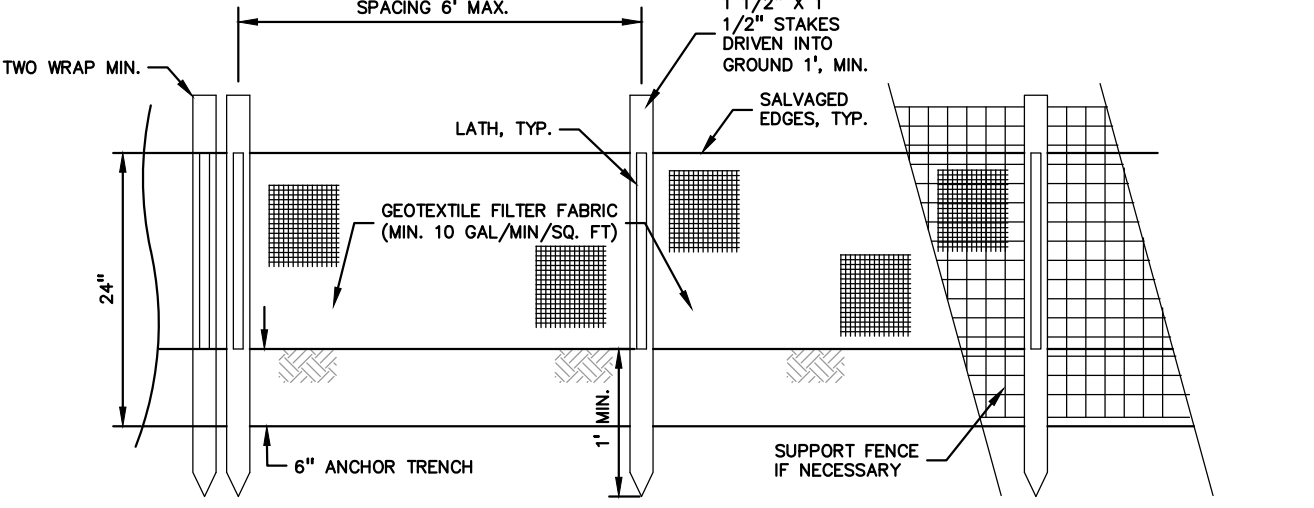
EROSION CONTROL BLANKET DETAIL
NOT TO SCALE



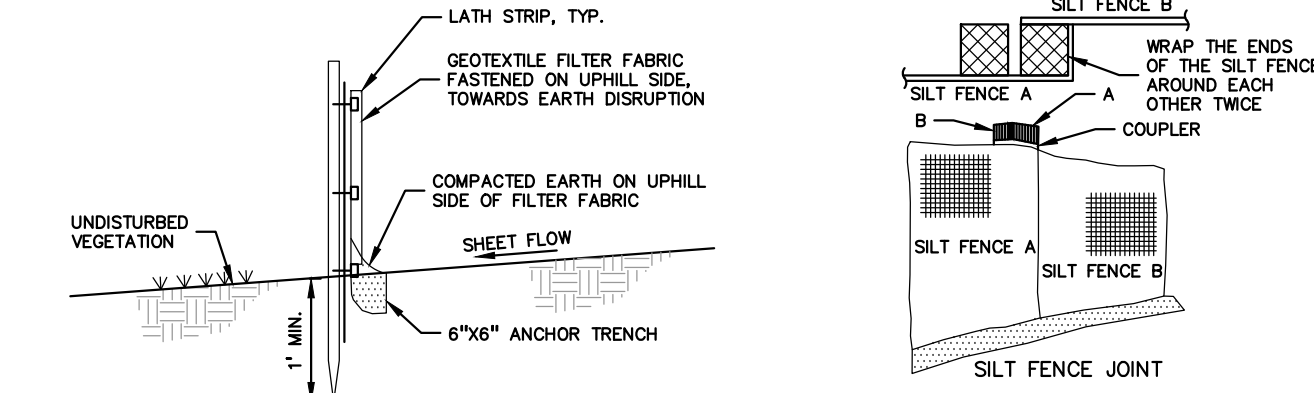
TEMPORARY STONE ACCESS DRIVE
NOT TO SCALE



PLAN VIEW

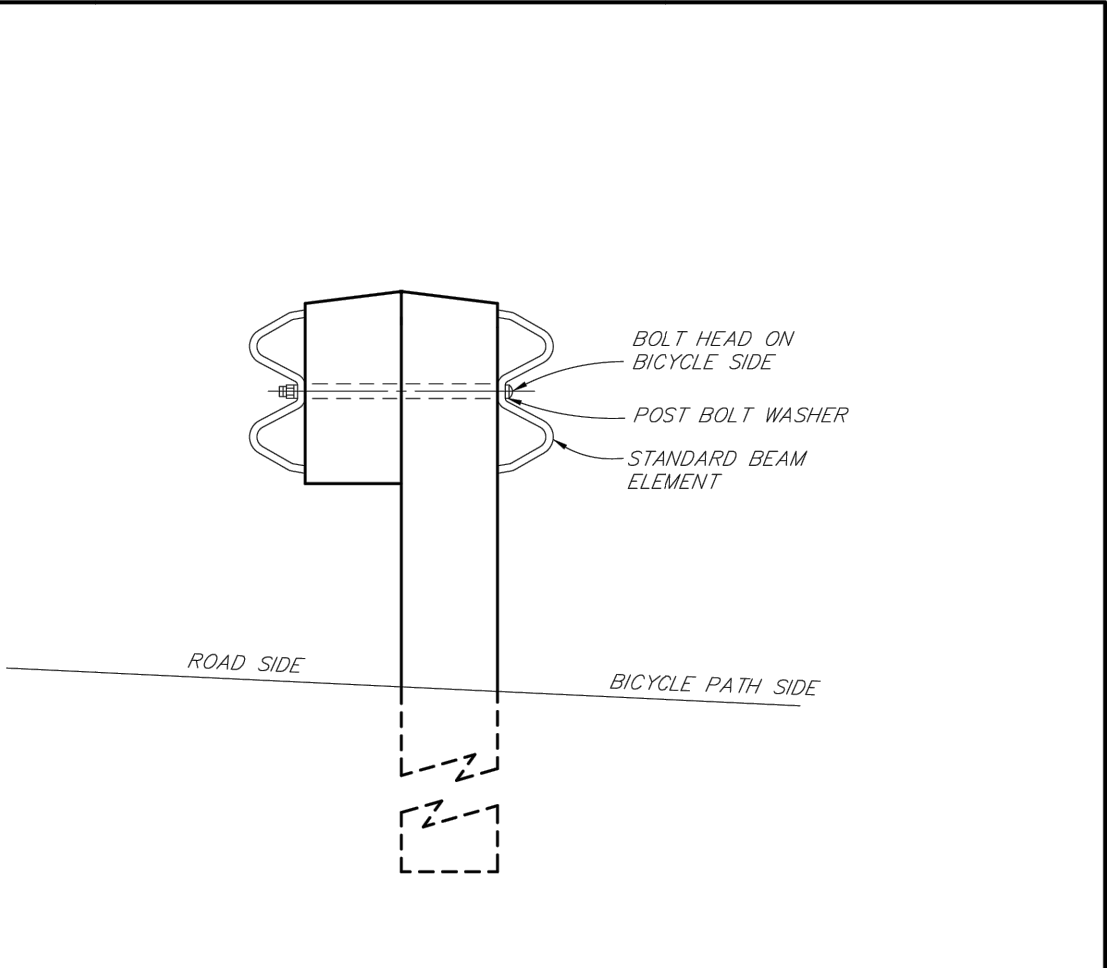


FRONT VIEW



SECTION A-A SECTION B-B

SILT FENCE DETAIL
NOT TO SCALE

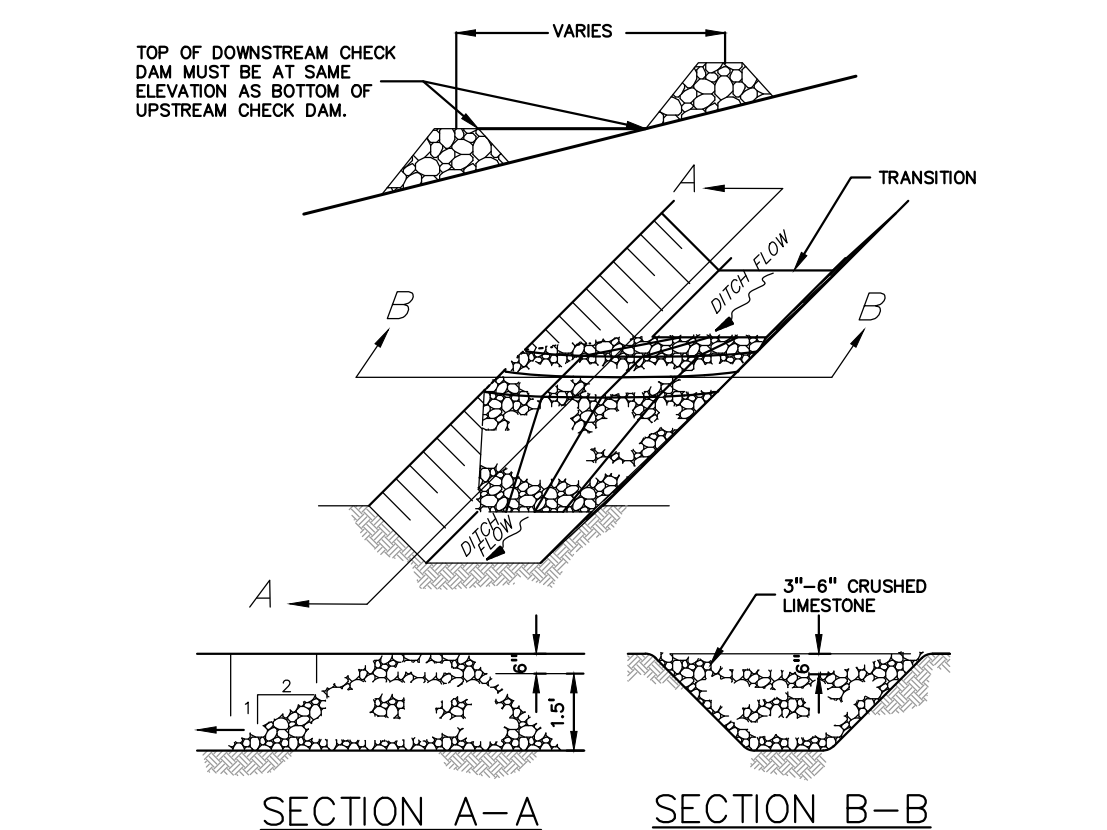


Guardrail-Bicycle Path is Guardrail, Type B, modified as shown with the addition of Standard beam Element, Post Bolt Washer (in place of Round Washer), and post bolt Head installed on the bicycle path side.
Beam Element shall be lapped in the direction of Traffic on the Road side and in the Direction of the Adjacent Cyclic Traffic on the Bicycle Path side.
For details not shown see M.D.O.T. Standard Plans R-60 Series.

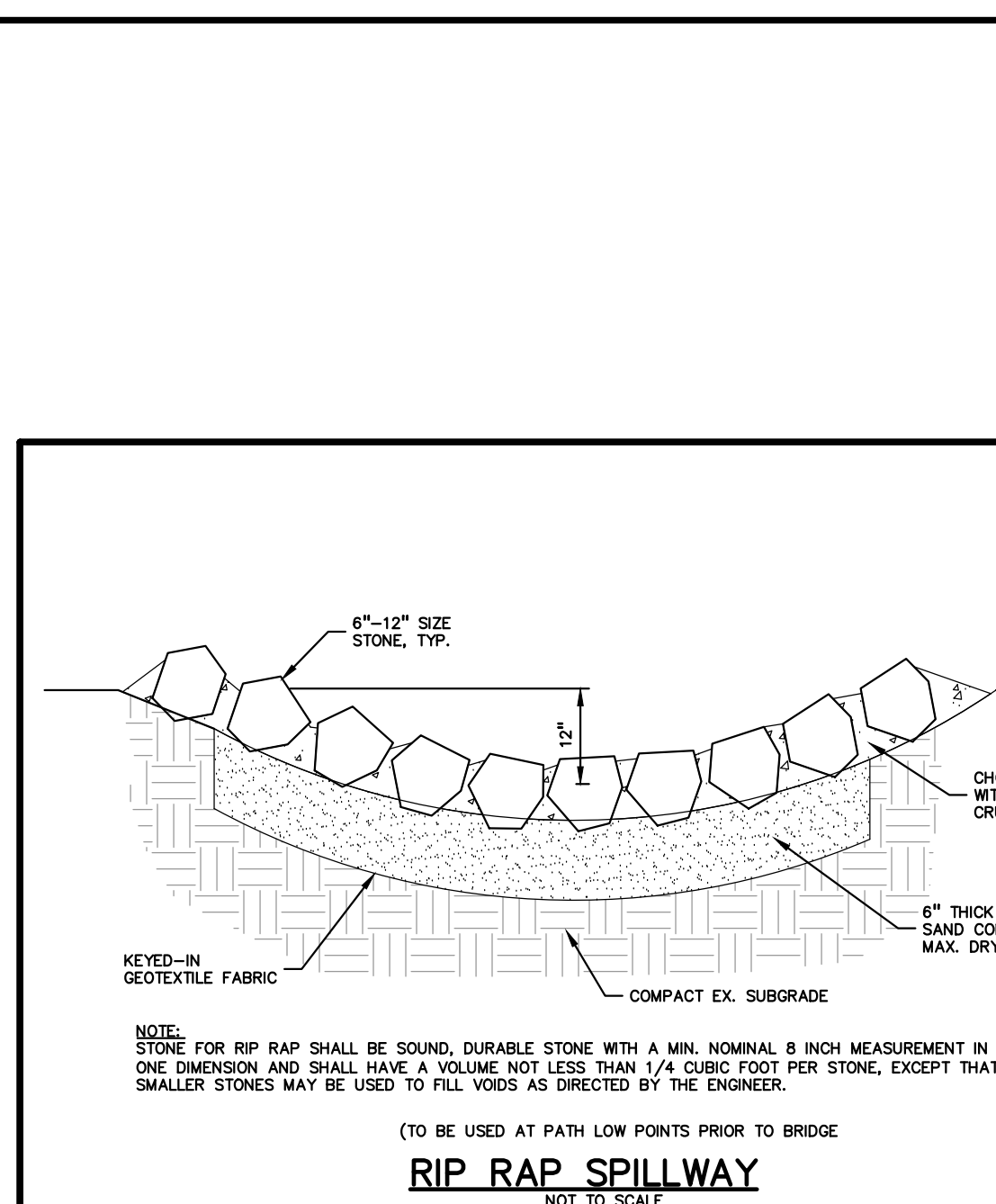
NOTE:
MOOT GUARDRAIL "TYPE B MODIFIED" IS TO BE USED ON SOUTH SIDE OF ROAD - SEE SHEET C-3.0-3.1 FOR LOCATION
MOOT GUARDRAIL "TYPE B" IS TO BE USED ON NORTH SIDE OF ROAD - SEE SHEET C-3.0-3.1 FOR LOCATION AND REFER TO MOOT STANDARD PLANS R-60 SERIES FOR DETAILS
ALL GUARD RAIL IS TO HAVE MSKT TERMINAL ENDS - REFER TO MOOT STANDARD PLANS AND DETAILS

REVISION DATE:	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES	SCALE
DIRECTOR OF ENGINEERING:	ENGINEERING DIVISION/PERMIT OFFICE	NOT TO SCALE
DIVISION PERMIT ENGINEER:	PERMIT STANDARDS	M-1
	GUARDRAIL-BICYCLE PATH	SHEET 1 OF 1

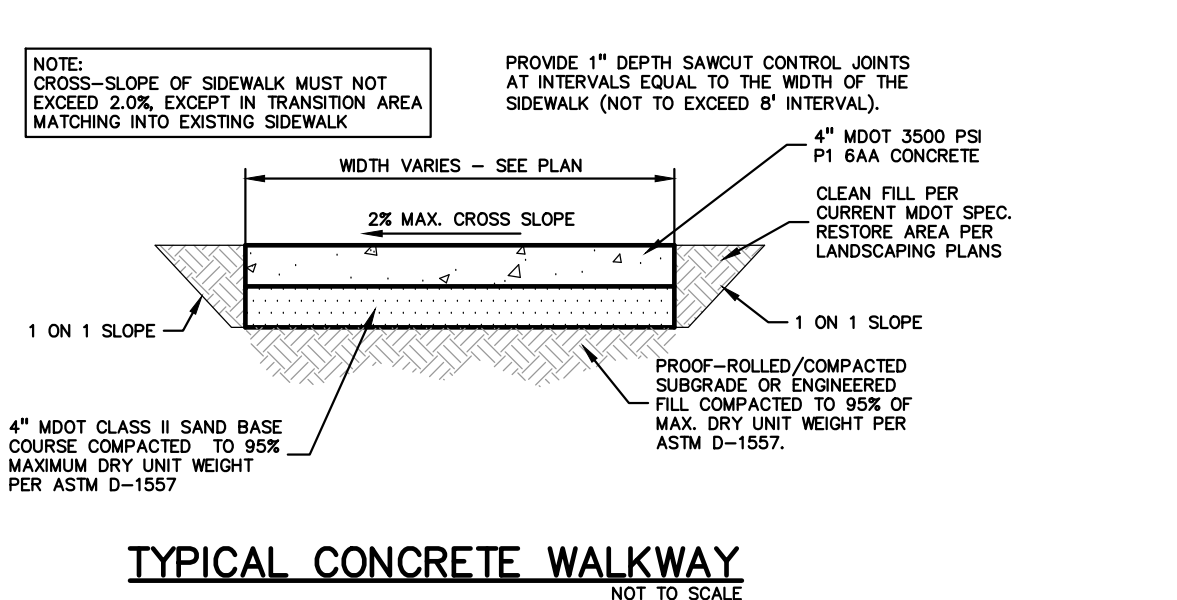
NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICE.



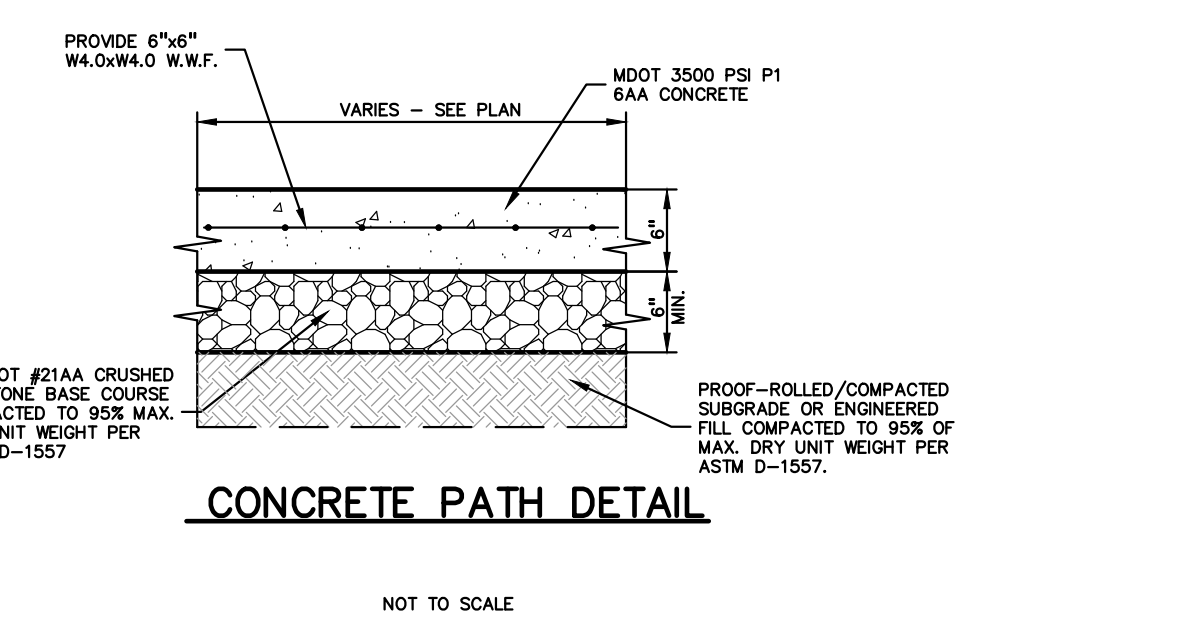
PERMANENT STONE CHECK DAM DETAIL
(TO BE USED IN DITCHES W/ SLOPE OF 2.5% OR MORE)
NOT TO SCALE



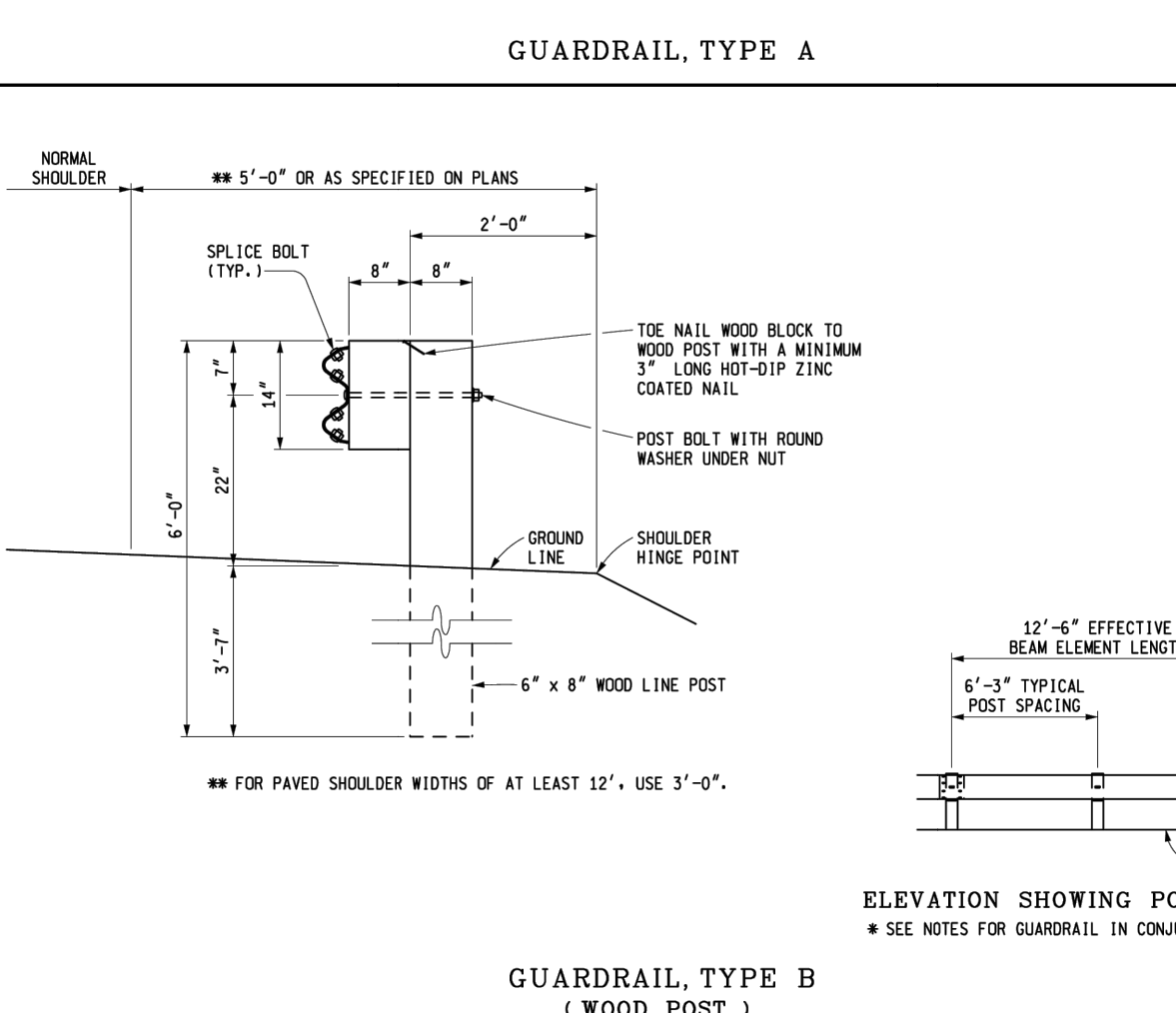
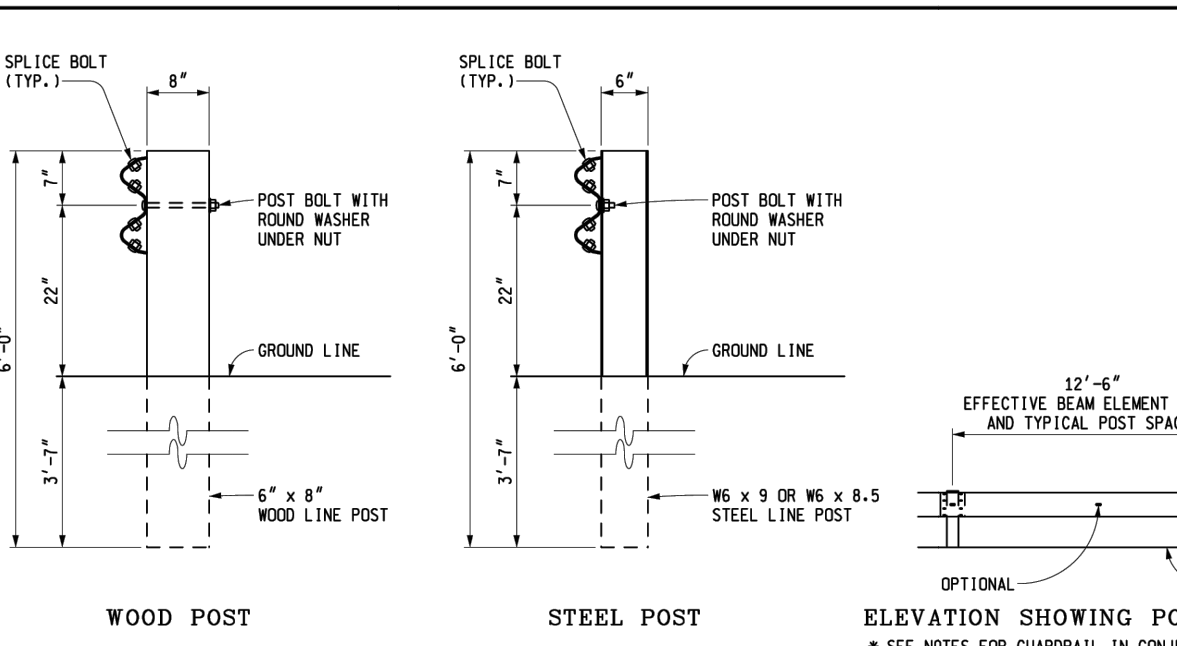
RIP RAP SPILLWAY
NOT TO SCALE



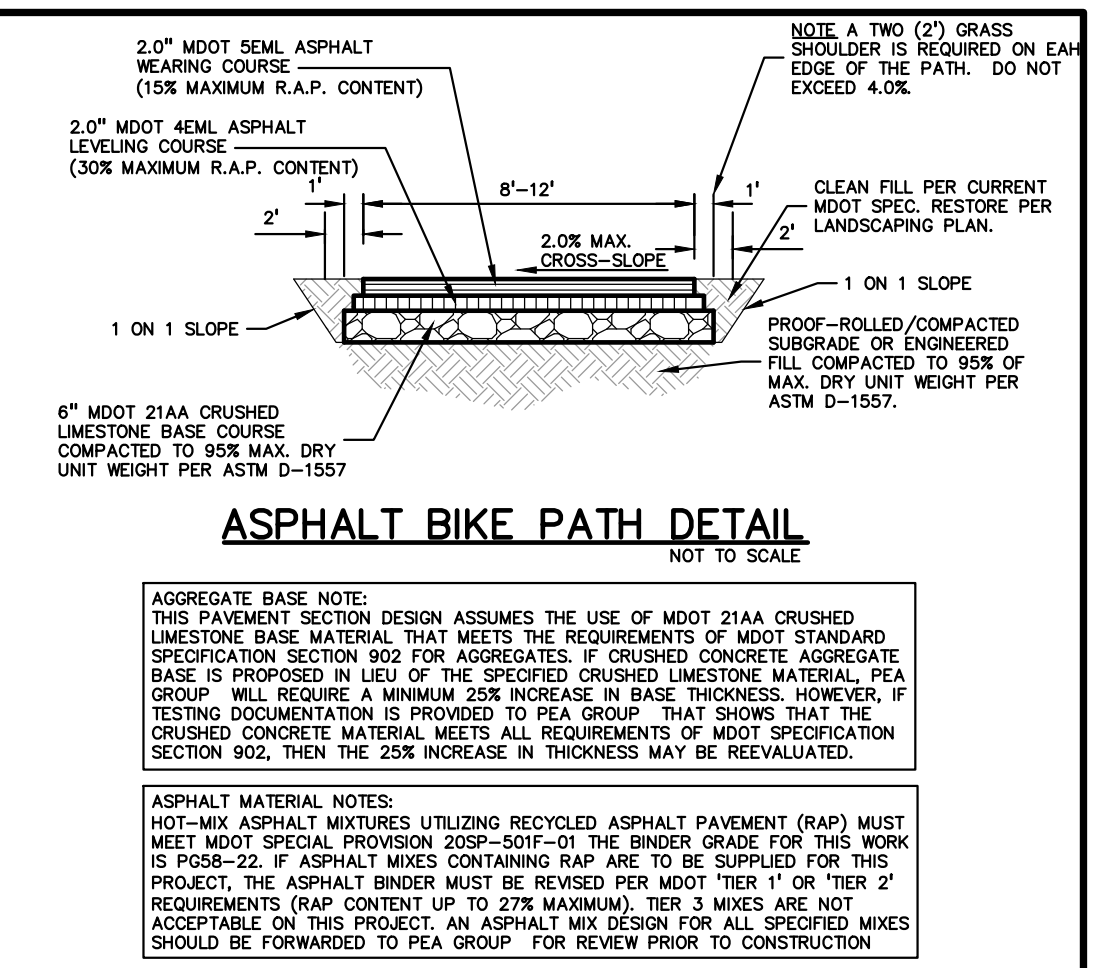
TYPICAL CONCRETE WALKWAY
NOT TO SCALE



CONCRETE PATH DETAIL
NOT TO SCALE



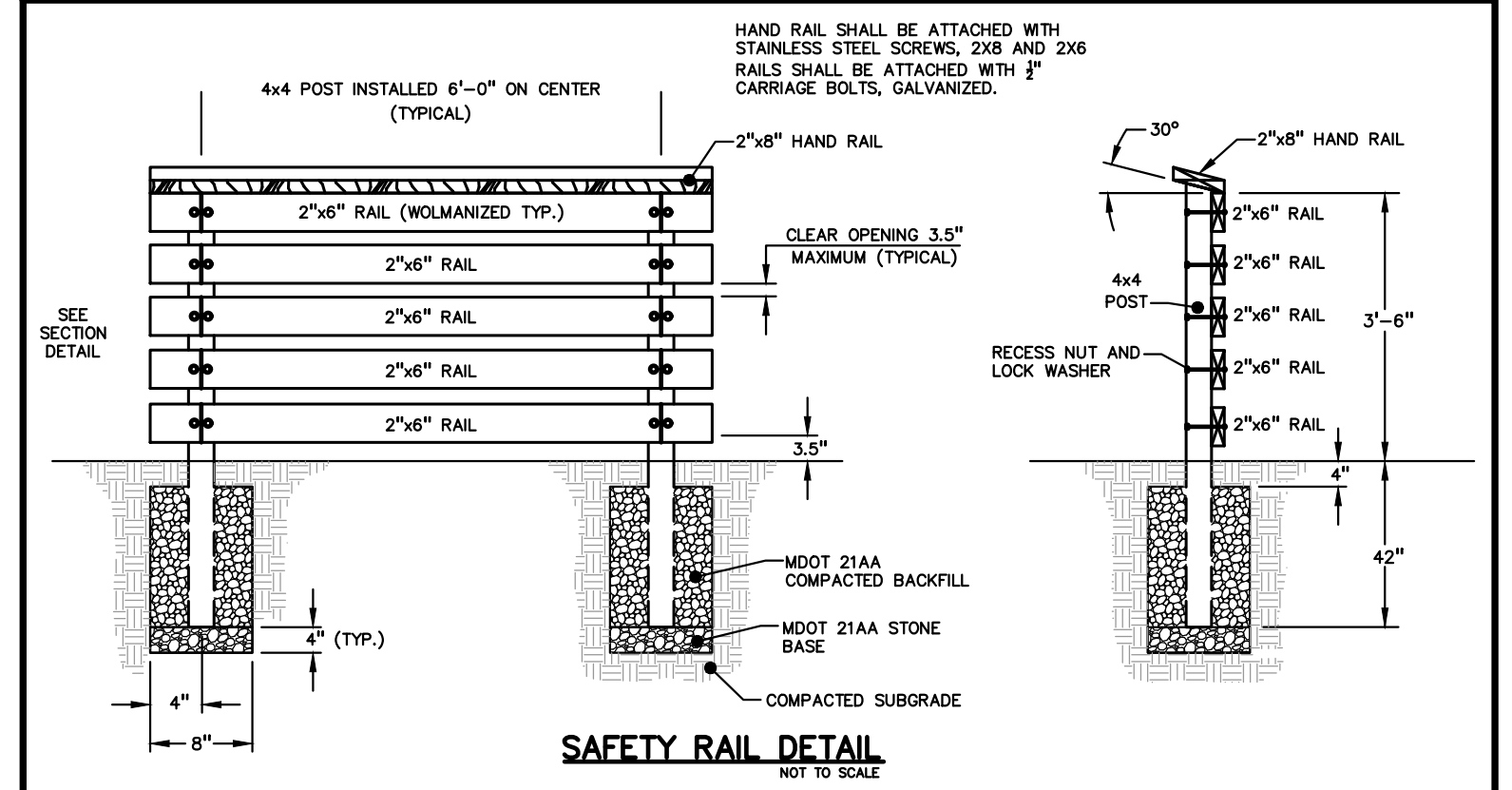
	DEPARTMENT DIRECTOR Paul C. Appala	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR
	APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES	GUARDRAIL, TYPES A, B, BD, T, TD, MGS-8, & MGS-8D
DESIGN DIVISION	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT	F.B.R.A.L. APPROVAL
DRAWN BY: B.A.L.L.	DATE: 2-21-2019	PLAN DATE
CHECKED BY: M.A.P.E.		R-60-J
		SHEET 1 OF 17



ASPHALT BIKE PATH DETAIL
NOT TO SCALE

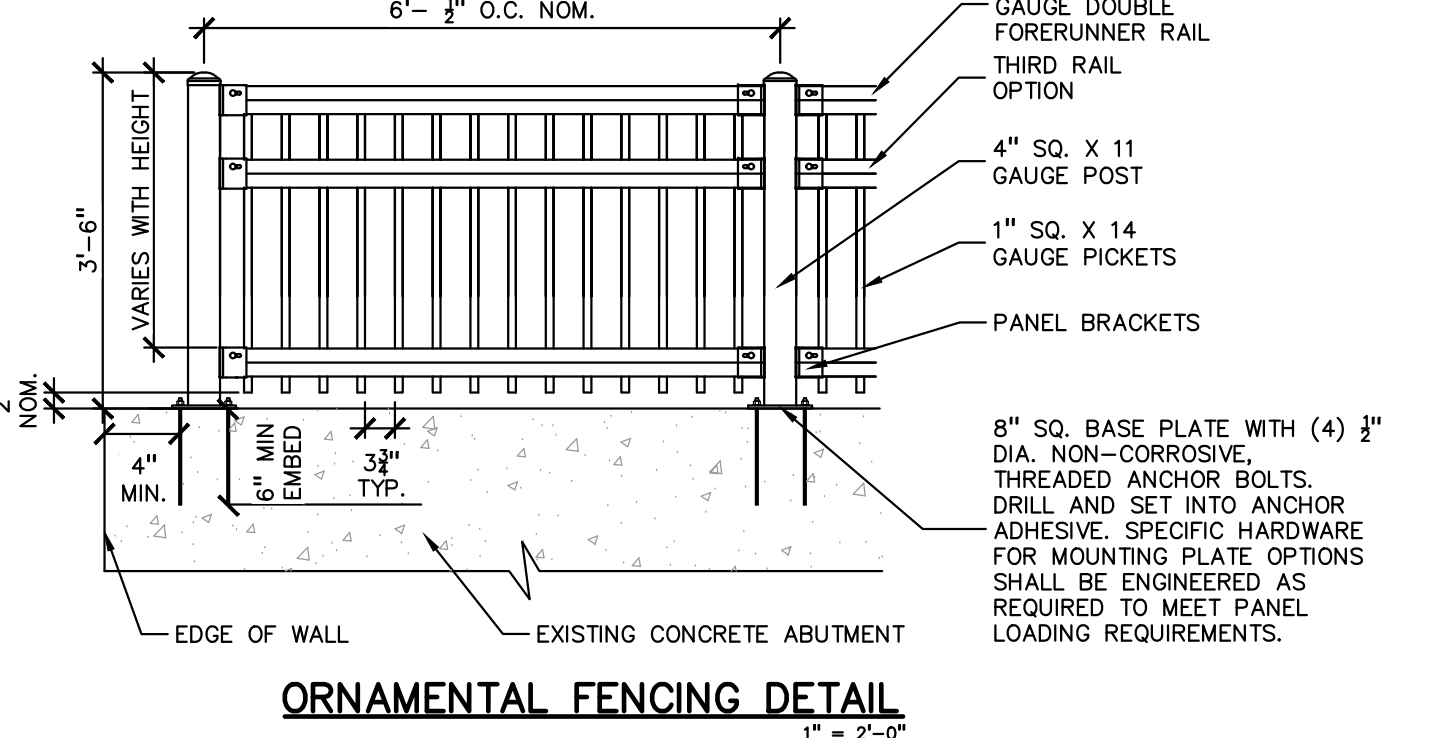
AGGREGATE BASE NOTE:
THIS PAVEMENT SECTION DESIGN ASSUMES THE USE OF MOOT 21AA CRUSHED LIMESTONE BASE MATERIAL THAT MEETS THE REQUIREMENTS OF MOOT STANDARD SPECIFICATION SECTION 802 FOR AGGREGATES. IF CRUSHED CONCRETE AGGREGATE BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MOOT SPECIFICATION SECTION 802, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED.

ASPHALT MATERIAL NOTES:
HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MOOT SPECIAL PROVISION 202P-207-01. THE BINDER GRADE FOR THIS WORK IS PG58-22. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MOOT TIER 1 OR TIER 2 REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE FOR THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION.

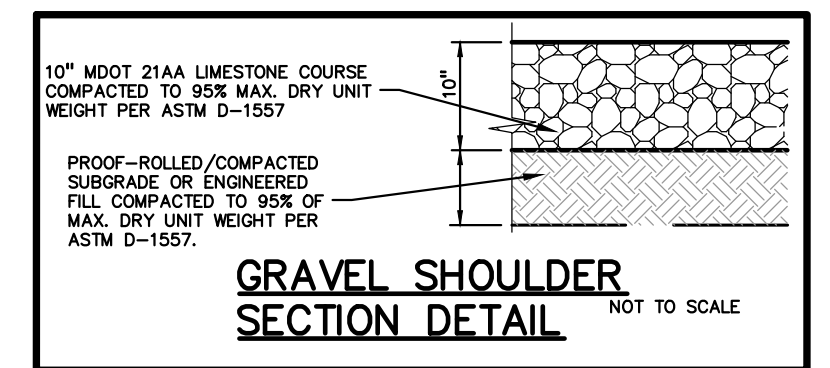


SAFETY RAIL DETAIL
NOT TO SCALE

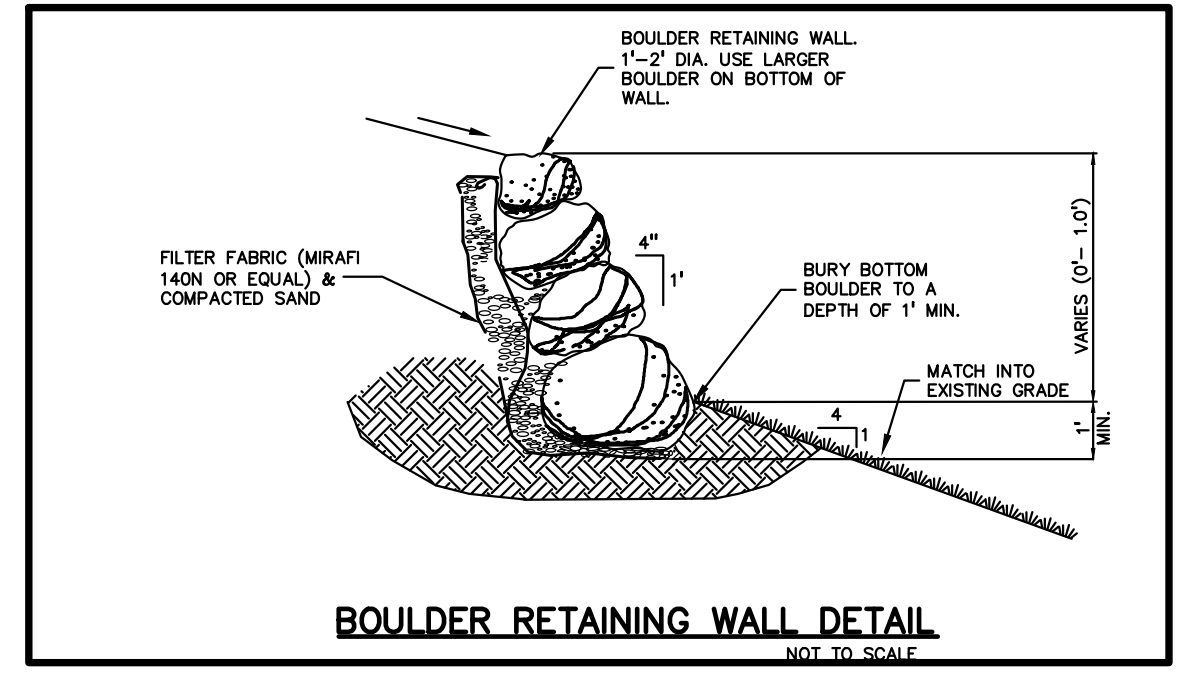
- NOTES:**
- 1.) FENCE MANUFACTURER: AMERISTAR
PHONE #: 800.321.8724
PRODUCT: AEGIS II XTREME
STYLE: MAJESTIC, 3 RAIL PANELS
3.5' HEIGHT, 6' LONG PANELS STANDARD
BOTTOM RAIL, 4" STANDARD PICKET
AIRSPACE
COLOR: BRONZE
 - 2.) FENCING TO MEET STATE & LOCAL CODES
 - 3.) INSTALLATION PER MANUFACTURER'S RECOMMENDATION
 - 4.) SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION FOR APPROVAL



ORNAMENTAL FENCING DETAIL
1" = 2'-0"



GRAVEL SHOULDER SECTION DETAIL
NOT TO SCALE



BOULDER RETAINING WALL DETAIL
NOT TO SCALE

NOT FOR CONSTRUCTION
REF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)W\SITE PLANS\19-369_VB PARKWAY PLANS\X-SURF D-19369.DWG
REF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)W\19369-TOPOBASE.DWG
REF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)W\SITE PLANS\19-369_VB PARKWAY PLANS\X-BASE D-19369.DWG
REF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTD)W\SITE PLANS\19-369_VB PARKWAY PLANS\X-TBLK-19369.DWG

NO.	DATE	BY	REVISIONS
1	11/19/20	JW	ISSUE FOR PERMIT
2	11/19/20	JW	REVISED PER COMMENTS
3	11/19/20	JW	REVISED PER COMMENTS

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48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

DETAIL SHEET
IRON BELLE TRAIL-SECTION D

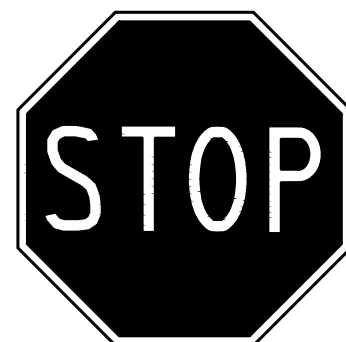
VAN BUREN TOWNSHIP
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

DRAWING NUMBER:
C-5.1

REVISIONS



36" x 36" WHITE ON RED REFLECTORIZED 7'-0" MOUNTING HEIGHT (R1-1)

STOP SIGN DETAIL NOT TO SCALE



24" x 30" BLACK ON WHITE REFLECTORIZED 7'-0" MOUNTING HEIGHT

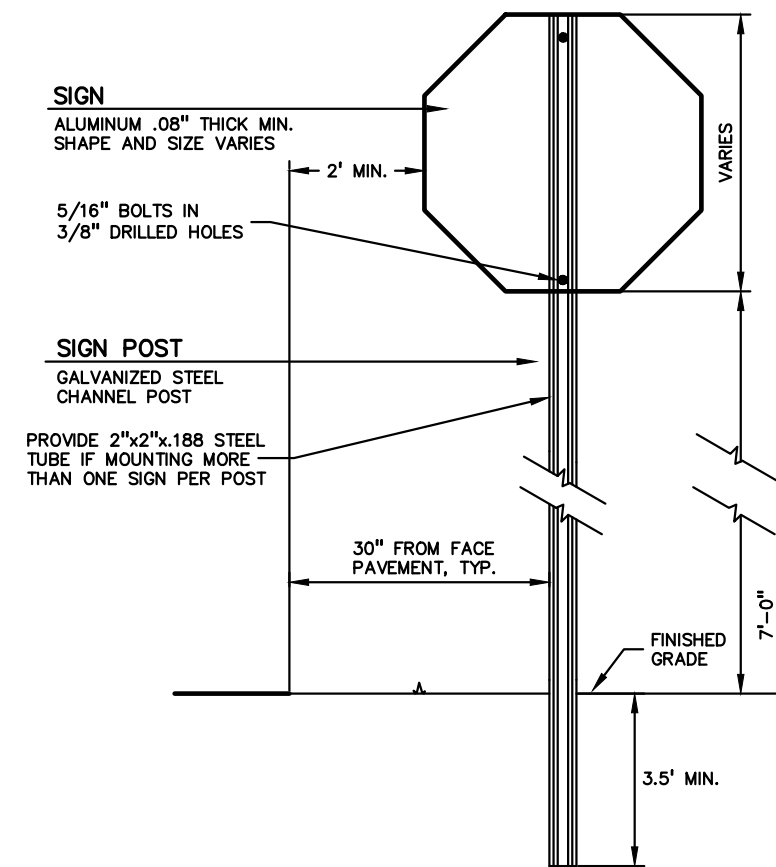
'WALKING PATH' SIGN DETAIL NOT TO SCALE

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 FACE IS PERMISSIBLE WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.

NOTE: SIGNS TO BE ERRECTED PERPENDICULAR TO DRIVE

DISTANCE BETWEEN SIGNS: SIGNS SHALL BE PLACED AS TO BE LEGIBLE FROM ONE SIGN TO THE NEXT.

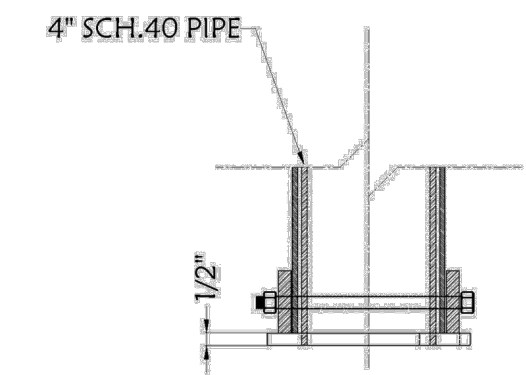
TRAIL ROUTE SIGN NOT TO SCALE



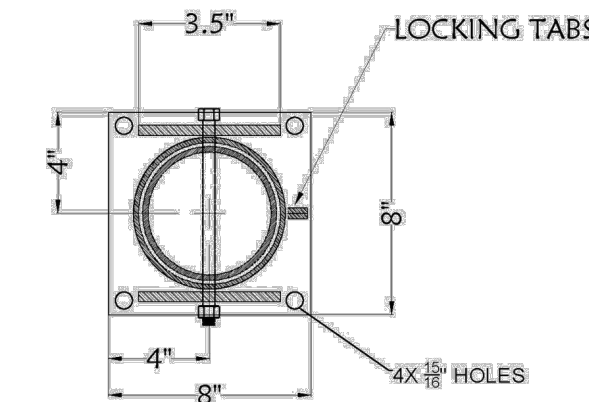
SIGN AND POST INSTALLATION IN LANDSCAPED AREAS NOT TO SCALE



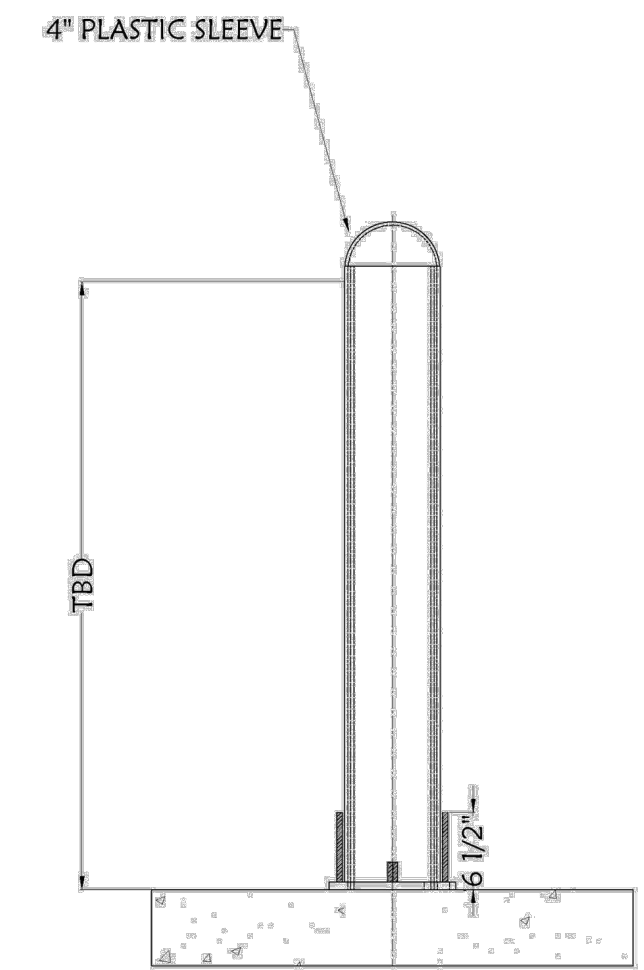
COLLAPSIBLE LOCKING BOLLARD



BASE DETAIL



COLLAPSIBLE BOLLARD DETAIL NOT TO SCALE NOTE: USE IDEAL-SHIELD BOLLARD OR SIMILAR



REVISIONS table with columns for revision number, description, and date.

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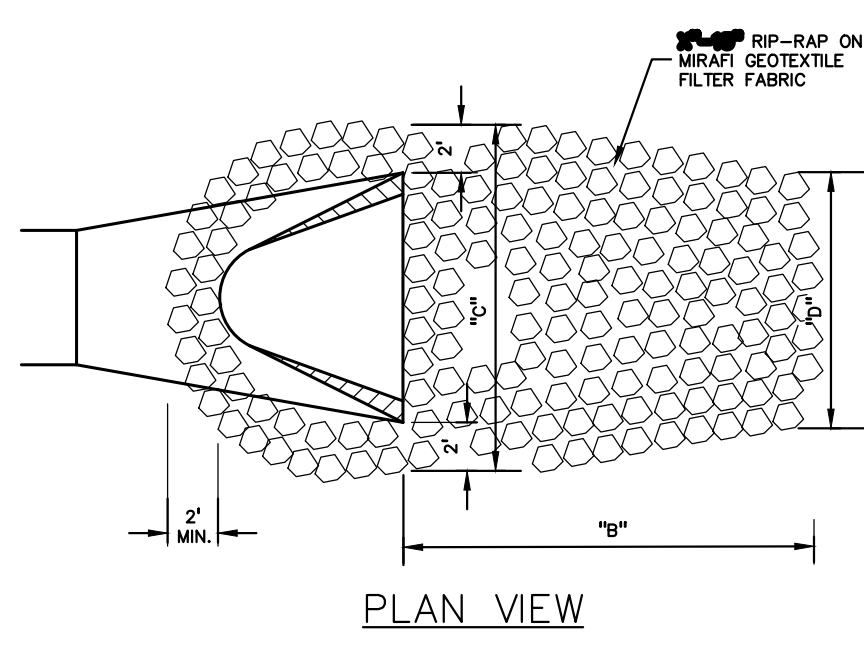
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFINE, MAINTAIN AND HOLD DESIGN PROFESSIONAL LIABILITY FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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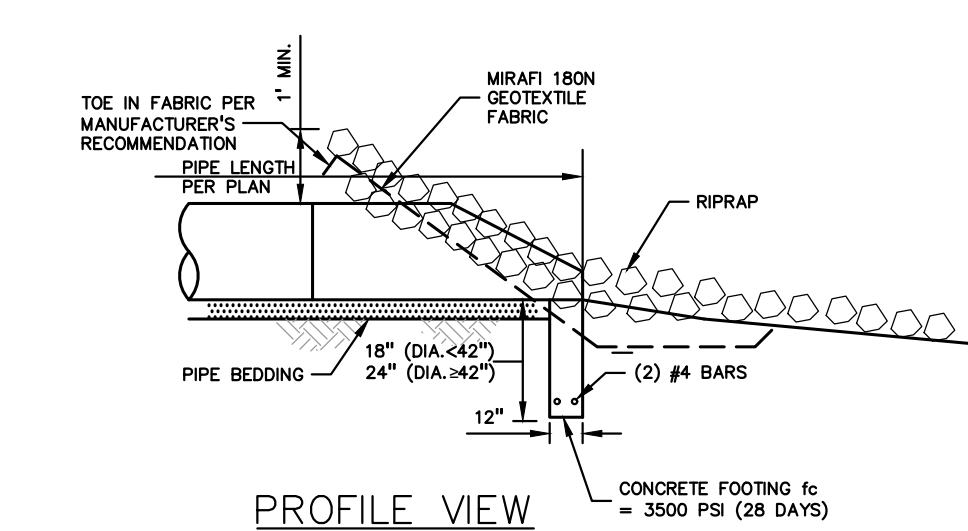
DESIGNER: JMR, SURVEYOR: JMW, DATE: 05/04/06

VAN BUREN TOWNSHIP 48425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111 IRON BELLE TRAIL-SECTION D ORIGINAL ISSUE DATE: MARCH 19, 2021 PEA JOB NO. 2019-369 DRAWING NUMBER: C-5.2



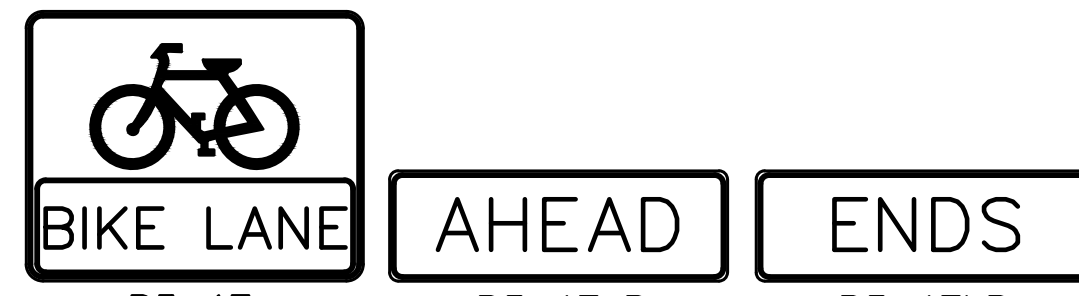
PLAN VIEW

Table with columns: PIPE DIAMETER, 'b', 'c', 'd', SQUARE YARDS. Rows for diameters 12", 15", 18", 21", 24".

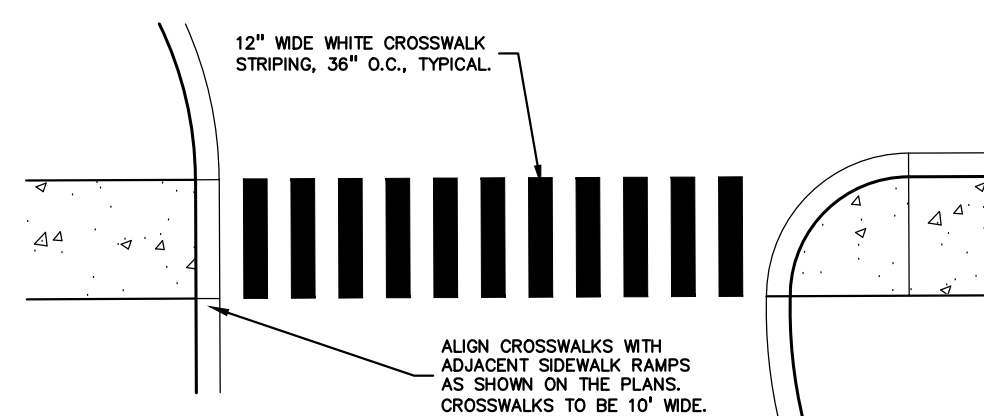


PROFILE VIEW

END SECTION & RIPRAP DETAIL NOT TO SCALE



BIKE LANE SIGN DETAILS NOT TO SCALE

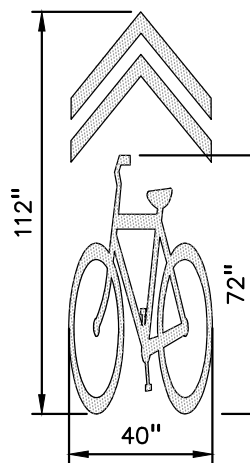


STRIPED CROSSWALK DETAIL NOT TO SCALE



SHARROW PER MUTCD STANDARDS

FIGURE 9C-9. SHARED LANE MARKING

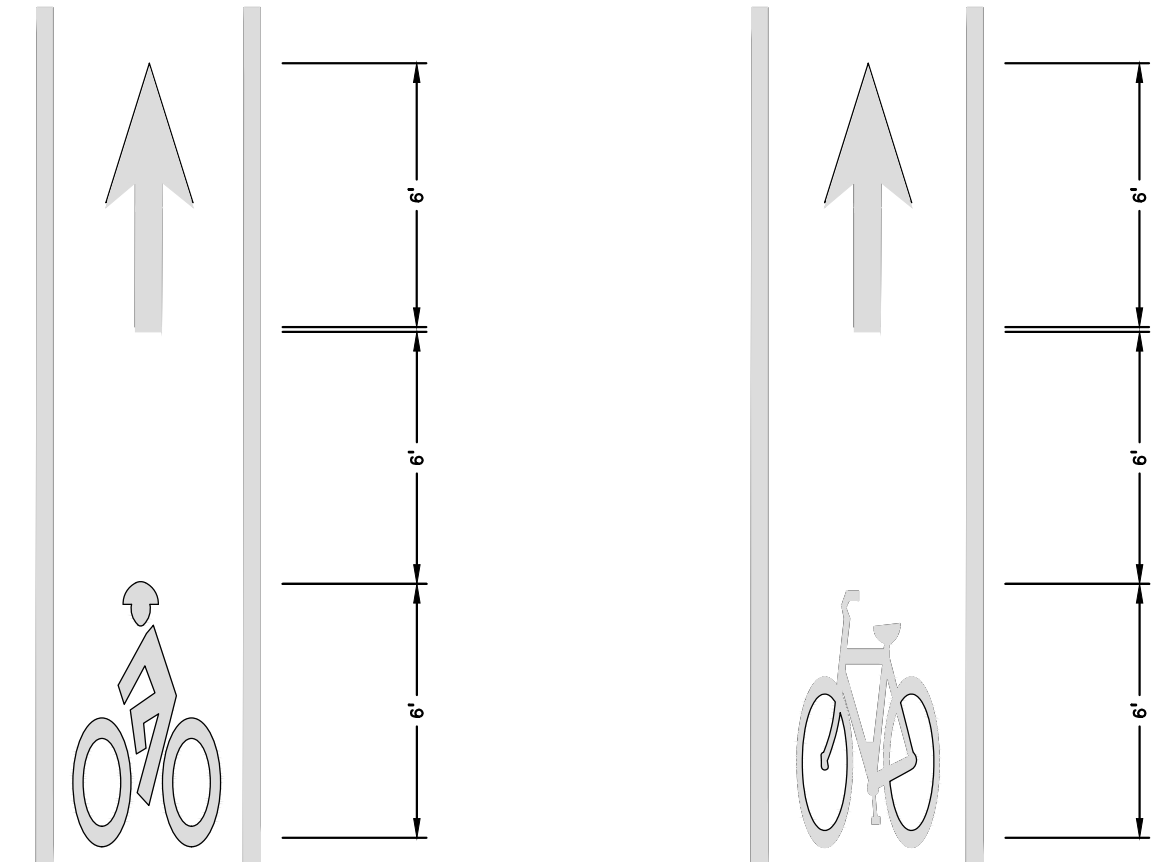


SHARROW DETAIL NOT TO SCALE

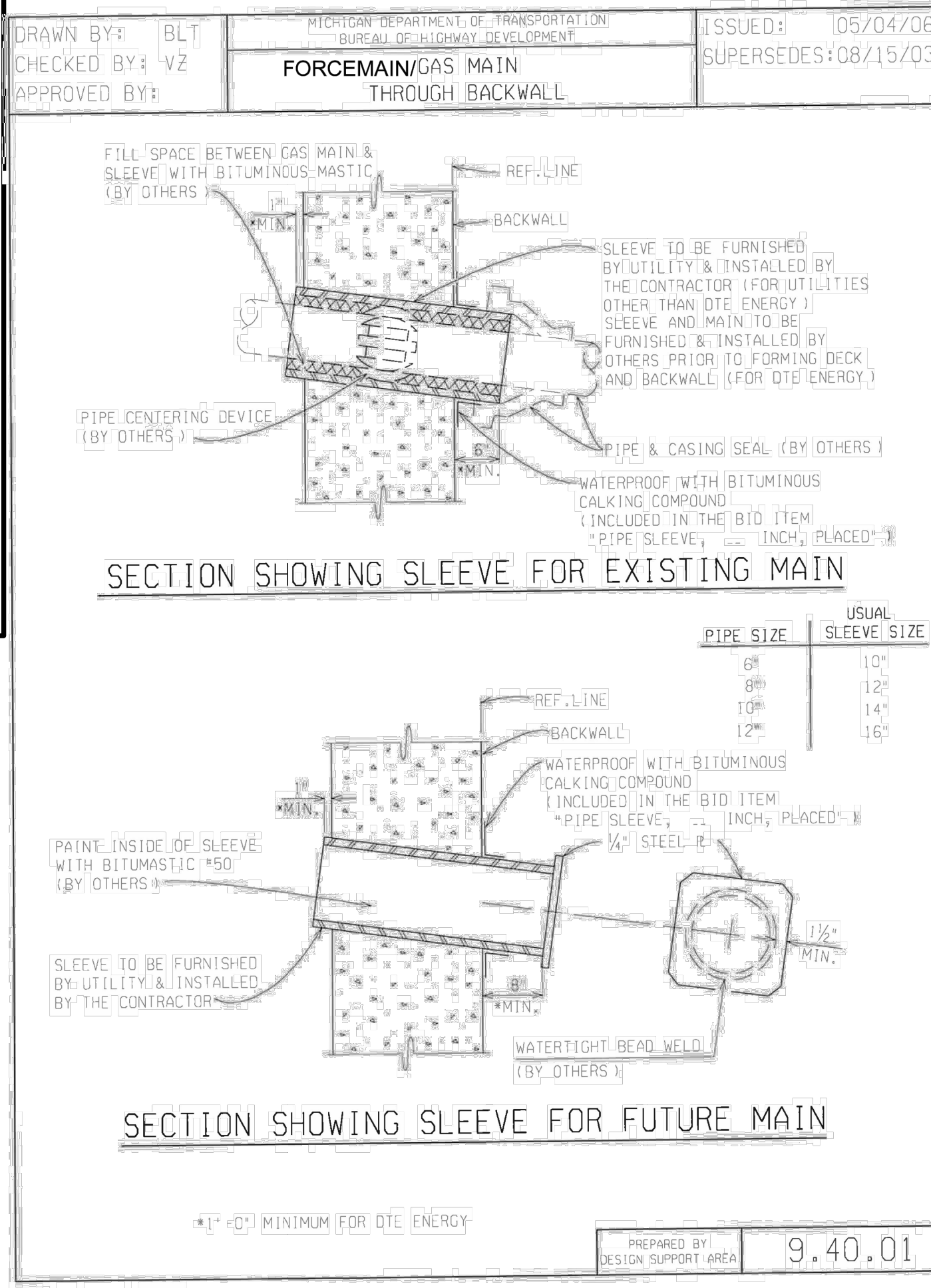
If used in a shared lane with on-street parallel parking, Shared Lane Markings should be placed so that the centers of the markings are at least 11 feet from the face of the curb, or from the edge of the pavement where there is no curb.

If used on a street without on-street parking that has an outside travel lane that is less than 14 feet wide, the centers of the Shared Lane Markings should be at least 4 feet from the face of the curb, or from the edge of the pavement where there is no curb.

If used, the Shared Lane Marking should be placed immediately after an intersection and spaced at intervals not greater than 250 feet thereafter.



BIKE LANE SYMBOL MARKINGS NOT TO SCALE



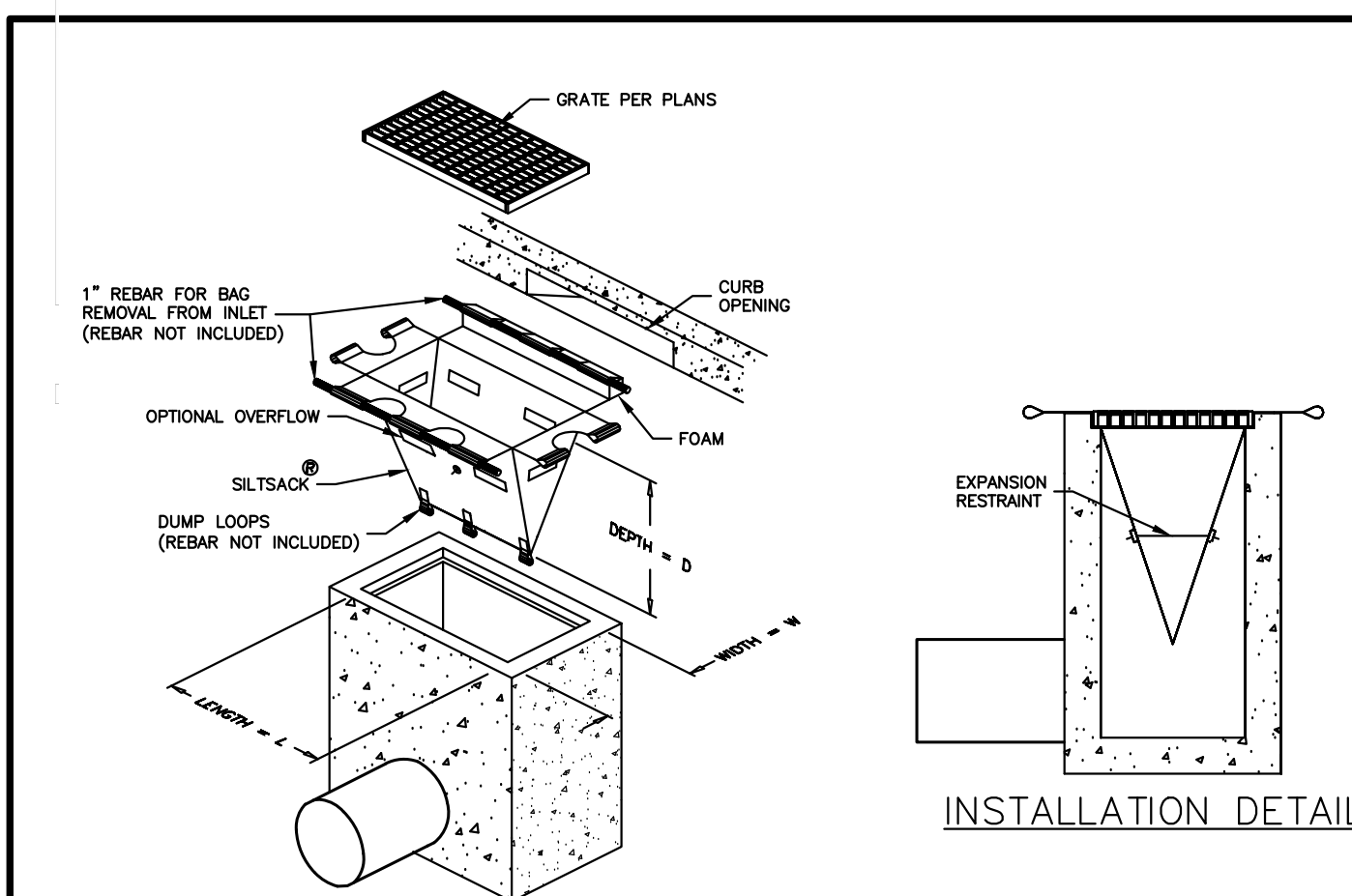
SECTION SHOWING SLEEVE FOR EXISTING MAIN

SECTION SHOWING SLEEVE FOR FUTURE MAIN

Table with columns: PIPE SIZE, USUAL SLEEVE SIZE. Rows for pipe sizes 6", 8", 10", 12".

1'-0" MINIMUM FOR DTE ENERGY

PREPARED BY: DESIGN SUPPORT AREA 9.40.01



'SILTSACK' DETAIL NOT TO SCALE



24" x 30" BLACK ON WHITE REFLECTORIZED 7'-0" MOUNTING HEIGHT

'CAUTION STEEP HILL' SIGN DETAIL NOT TO SCALE



30" x 30" BLACK ON YELLOW REFLECTORIZED 7'-0" MOUNTING HEIGHT (W5-1)

ROAD NARROWS SIGN DETAIL NOT TO SCALE



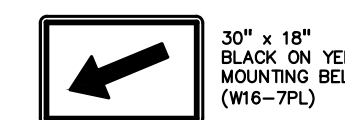
36" x 36" BLACK ON YELLOW REFLECTORIZED 7'-0" MOUNTING HEIGHT (W1-2)

SIDEWALK WARNING SIGN DETAIL NOT TO SCALE



30" x 18" BLACK ON YELLOW REFLECTORIZED MOUNTING BELOW W1-2 (W16-7PL)

W16-9P



30" x 18" BLACK ON YELLOW REFLECTORIZED MOUNTING BELOW W1-2 (W16-7PL)

NOT FOR CONSTRUCTION

PROJECTS: 2019-2019-369 VAN BUREN (BTDW) SITE PLANS 19-369 VB PARKWAY PLANS V-SURF D-19369.DWG XREF: S:PROJECTS\2019-2019-369 VAN BUREN (BTDW)\19-369-TOPOBASE.DWG XREF: S:PROJECTS\2019-2019-369 VAN BUREN (BTDW) SITE PLANS 19-369 VB PARKWAY PLANS V-BASE D-19369.DWG XREF: S:PROJECTS\2019-2019-369 VMS SITE PLANS 19-369 VB PARKWAY PLANS V-TLK-19369.DWG

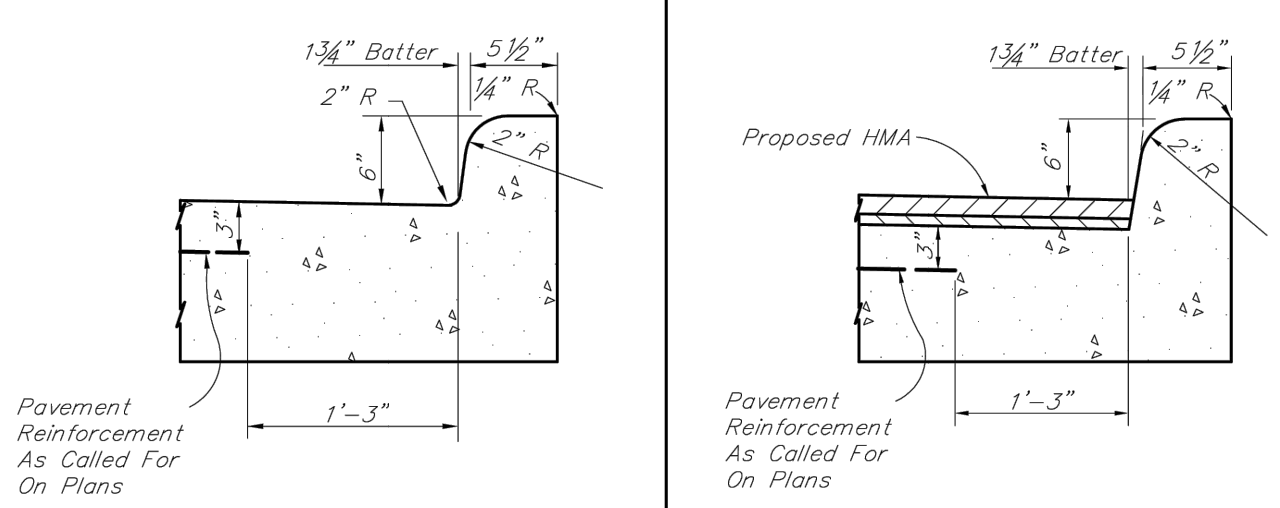
All transverse joints in the concrete pavement shall extend entirely through the integral curb and be of the same kind and thickness as provided for the pavement.

The joint material shall be pre-cut so as to conform to the geometric shape and cross sectional area of the curb, and shall be placed in contact with the filler material in the pavement.

Integral curbs, which are placed as part of a concrete base course pavement shall have transverse joints, formed by placing a pre-molded bituminous filler 1/4 inch thick, entirely through the curb, in exact alignment with all joints in the base course pavement. The joint material shall be pre-cut so as to conform to the geometric shape and cross sectional area of the curb.

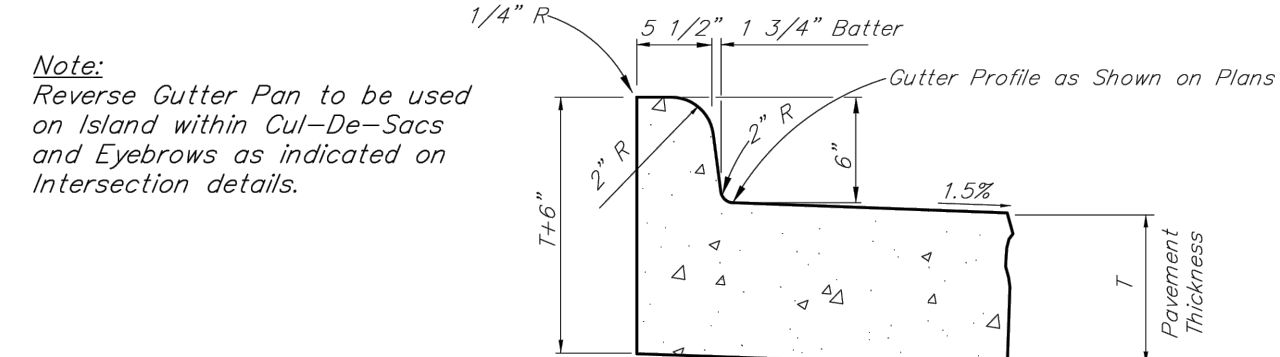
The edges of all transverse joints in the integral curb shall be rounded with an approved finishing tool having a radius of 1/4 inch.

INTEGRAL STRAIGHT CURB

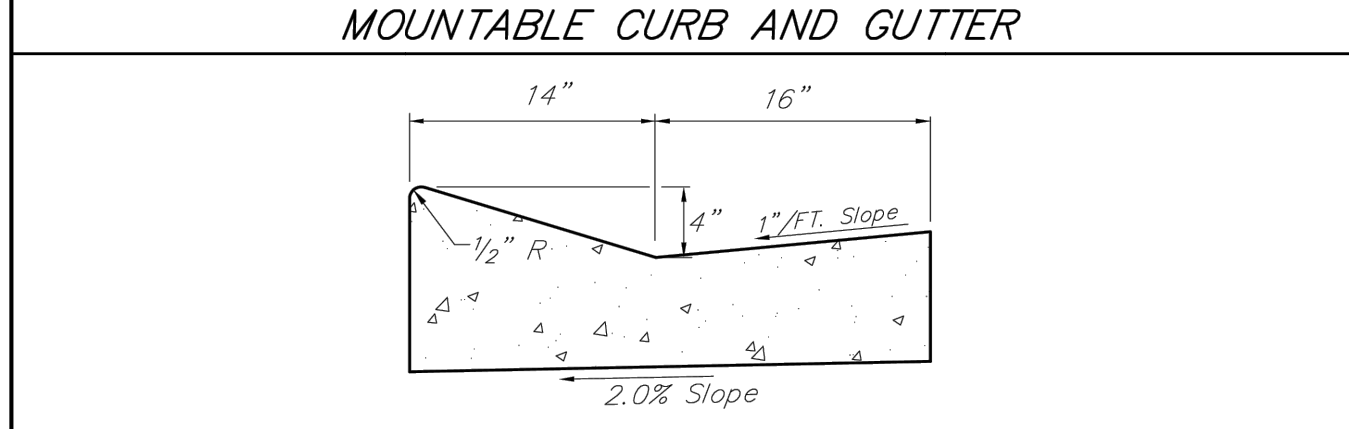


CONCRETE PAVEMENT TYPE 3 CONCRETE BASE COURSE TYPE 4

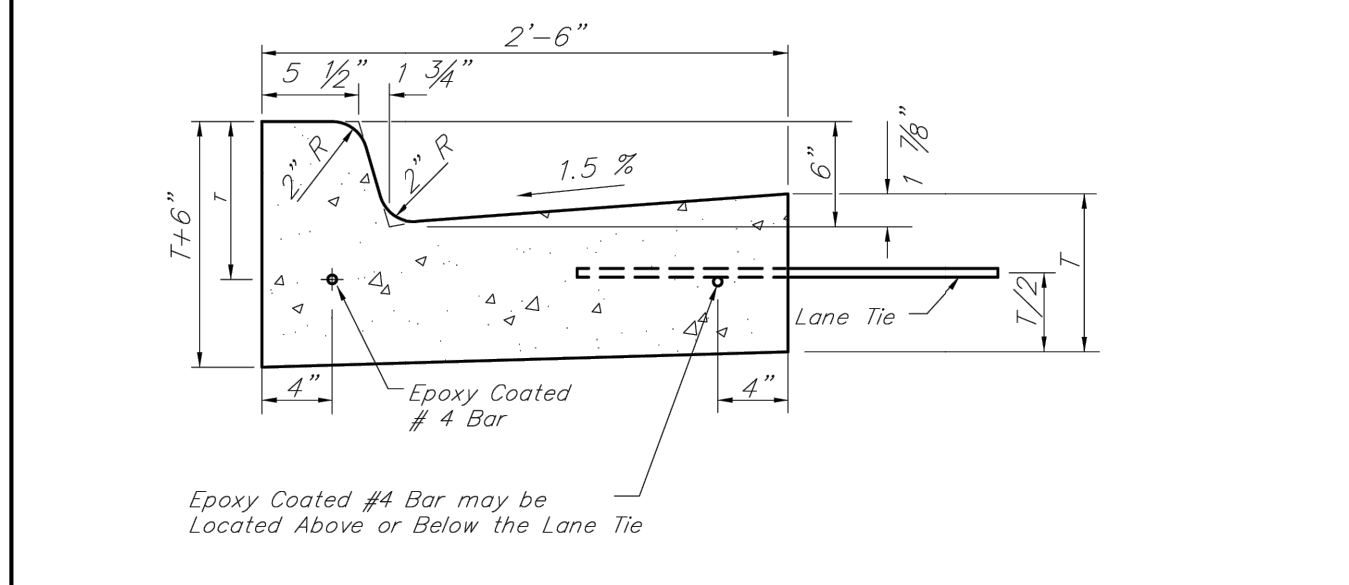
INTEGRAL STRAIGHT CURB W/REVERSE GUTTER PAN



REVISION DATE: 08/01/07
 WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES
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 PERMIT STANDARDS
RS-3
 CURB AND CURB & GUTTER DETAILS
 SHEET 1 OF 3

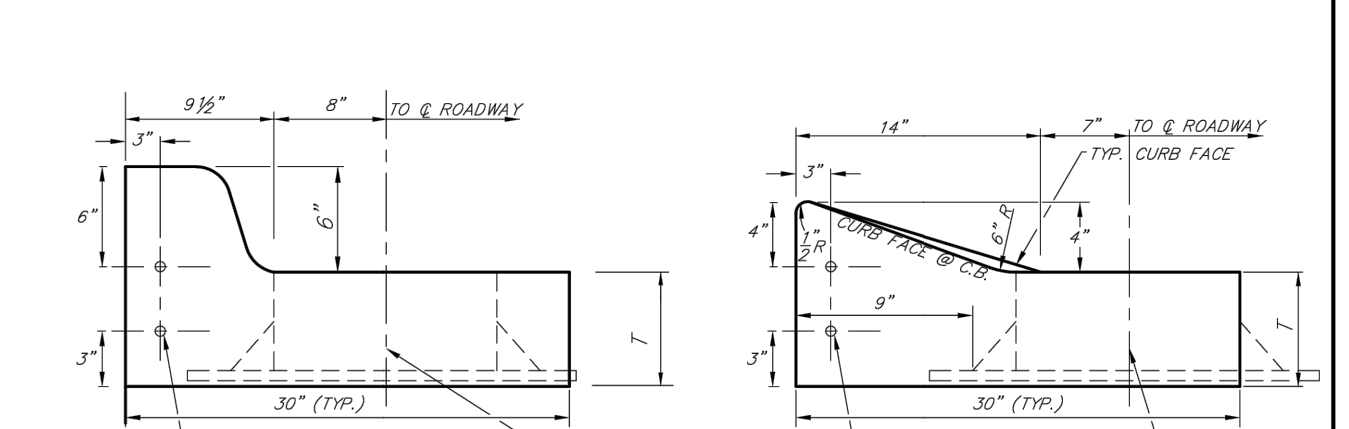


STRAIGHT CURB AND GUTTER

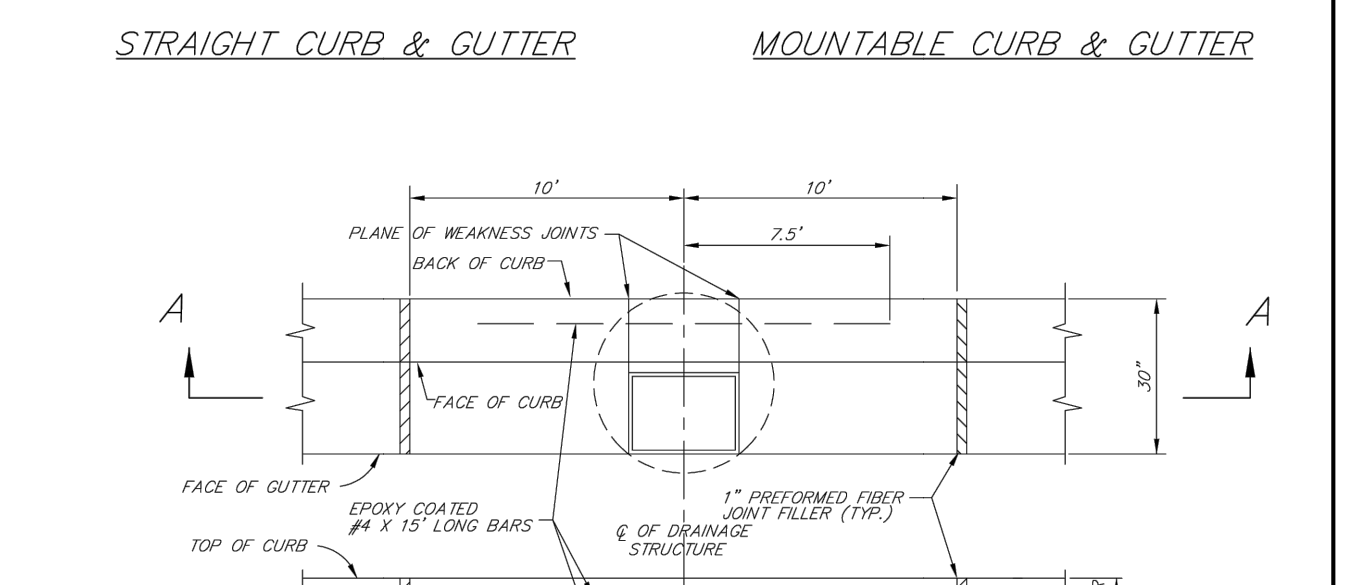


NOTES:
 PLANE OF WEAKNESS JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT APPROXIMATELY 10' INTERVALS.
 EXPANSION JOINTS SHALL BE PLACED 10' EACH SIDE OF ALL CATCH BASINS AND AT THE ENDS OF RADI AT ALL STREET RETURNS AND SEALED WITH HOT-POURED RUBBER ASPHALT COMPOUND.
 MATCH CONCRETE PAVEMENT JOINTS NOT TO EXCEED 25' SPACINGS.
 *T IS THE DEPTH OF PROPOSED CURB AND GUTTER SECTION THAT SHALL MATCH THE THICKNESS OF PROPOSED PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE WAYNE COUNTY ENGINEER OR AS SHOWN ON APPROVED PLANS.
 OMIT LANE TIES WHEN PLACING CURB NEXT TO HMA PAVEMENT.
 PLACE 1" FIBER JOINT FILTER AT 400' MAXIMUM INTERVALS.

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RS-3
 CURB AND CURB & GUTTER DETAILS
 SHEET 2 OF 3



STRAIGHT CURB & GUTTER MOUNTABLE CURB & GUTTER



NOTES:
 PLANE OF WEAKNESS JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT APPROXIMATELY 10' INTERVALS.
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RS-3
 CURB AND CURB & GUTTER DETAILS
 SHEET 3 OF 3

- All materials and workmanship shall be in accordance with Wayne County Specifications which are defined as the current Michigan Department of Transportation (MDOT) Standard Specifications for Construction as modified by Wayne County Special Provisions.
- Paving Standard Plan Details may be shown with wire fabric reinforcement. Use of reinforcement shall be required as called for on the plans.
- A Transverse End of Pour Joint, Symbol (H), shall be constructed when there is an interruption in concrete paving for more than 1/2 hour. Transverse End of Pour Joint, Symbol (H), shall be constructed in accordance with current MDOT Standard Plan, R-39 series (Reinforced Concrete Pavement) and R-39P series (Plain Concrete Pavement). This note applies to both concrete base and finished concrete pavement.
- When it is anticipated that construction traffic will be using the pavement, endings will be protected by means of a temporary concrete header as shown on RS-4.
- The Expansion Joint Foam Rod shall be a solid round heat resistant Polyurethane foam capable of withstanding the temperature of the sealant. Density of the foam shall be 2-4 Lb/Cft.
- Wire Fabric Reinforcement shall lay flat when delivered to the work area. The use of spreader bars will be required for lifting bundles of reinforcement.
- Where the lane width of the pavement differs from wire fabric reinforcement standards, special sheets of the required width may be used or standard sheets may be cut to the required size or split sheets may be added to standard sheets to obtain the required size. Side laps shall not be less than the spacing of the longitudinal wires.
- The ends of the Wire Fabric Reinforcement sheets shall be fastened in at least two places at each lap to prevent horizontal and vertical displacement.
- When Concrete Pavement Repairs are longer than 20 feet, Transverse Plane of Weakness Joints (WJ) shall be placed in-line with existing transverse joints, working cracks, or at 15 feet maximum and 6 feet minimum spacings.
- Existing concrete pavements with HMA surface requiring saw-cutting for removal shall have the saw cuts extend completely thru the concrete pavement. Sawed over-cuts occurring in adjacent slab, gutter or shoulder, which will remain in place, shall be sealed.

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 ENGINEERING DIVISION/PERMIT OFFICE
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RS-1
 GENERAL NOTES
 SHEET 1 OF 1

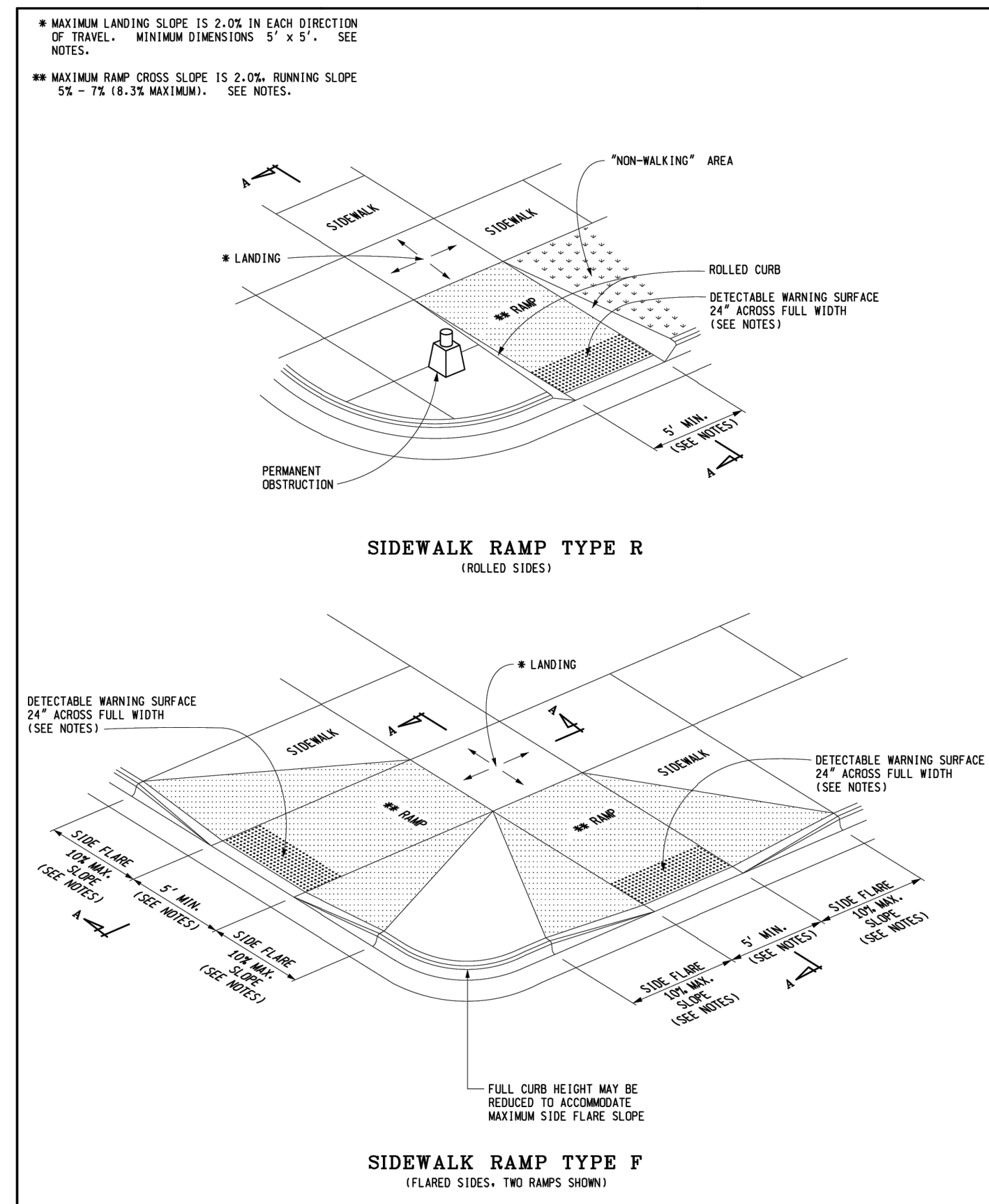
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2	ELP	08/01/07	REVISED

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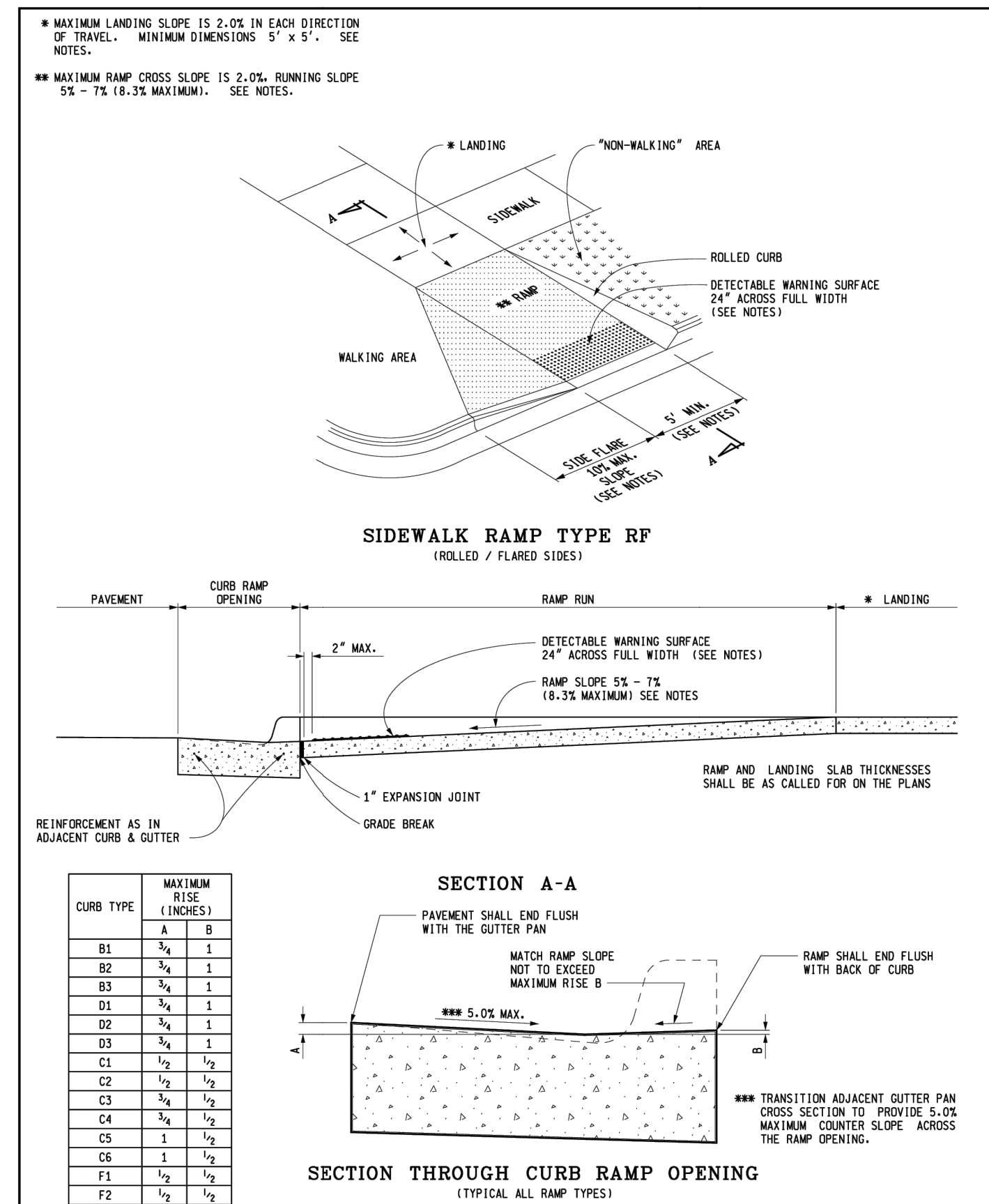
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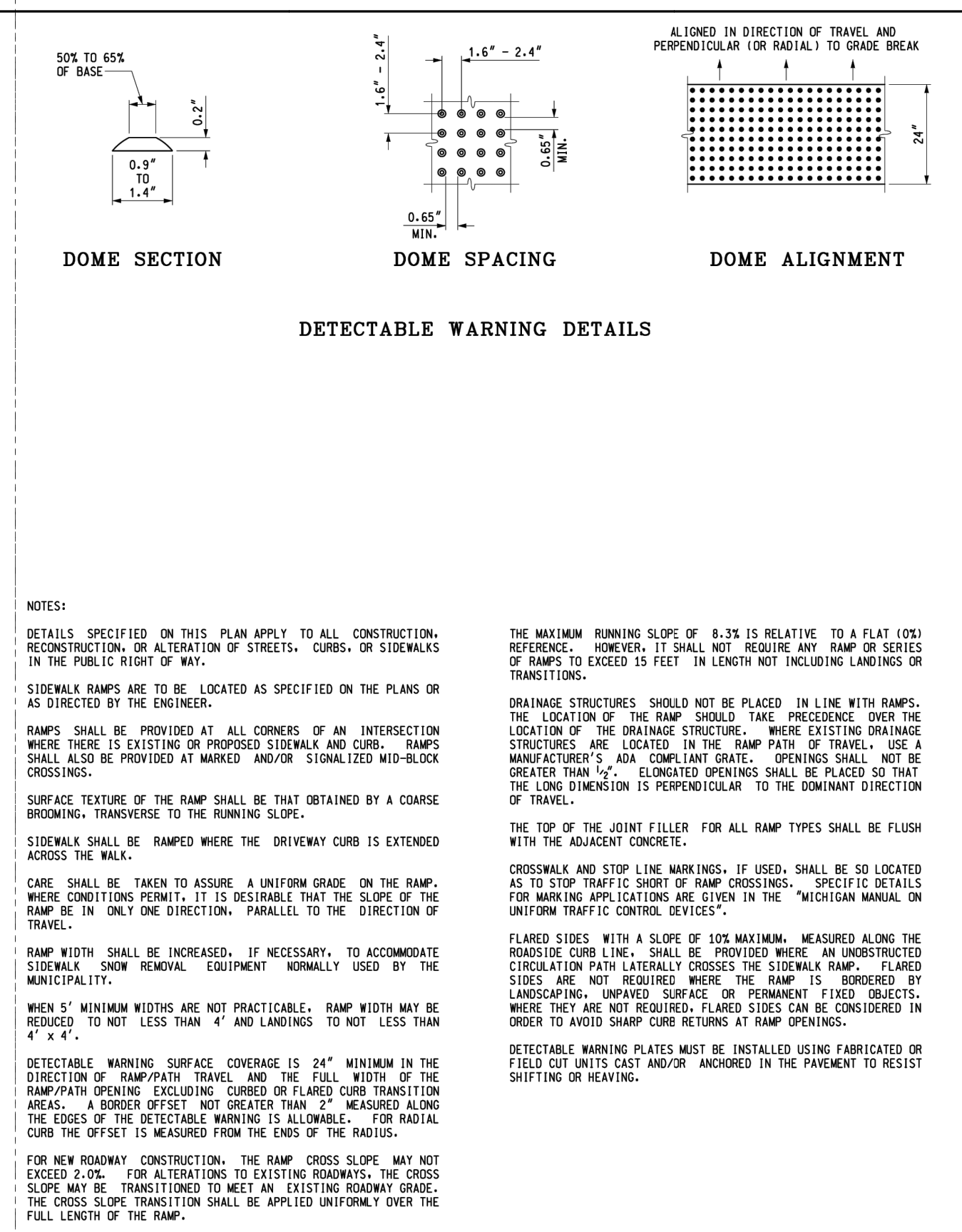
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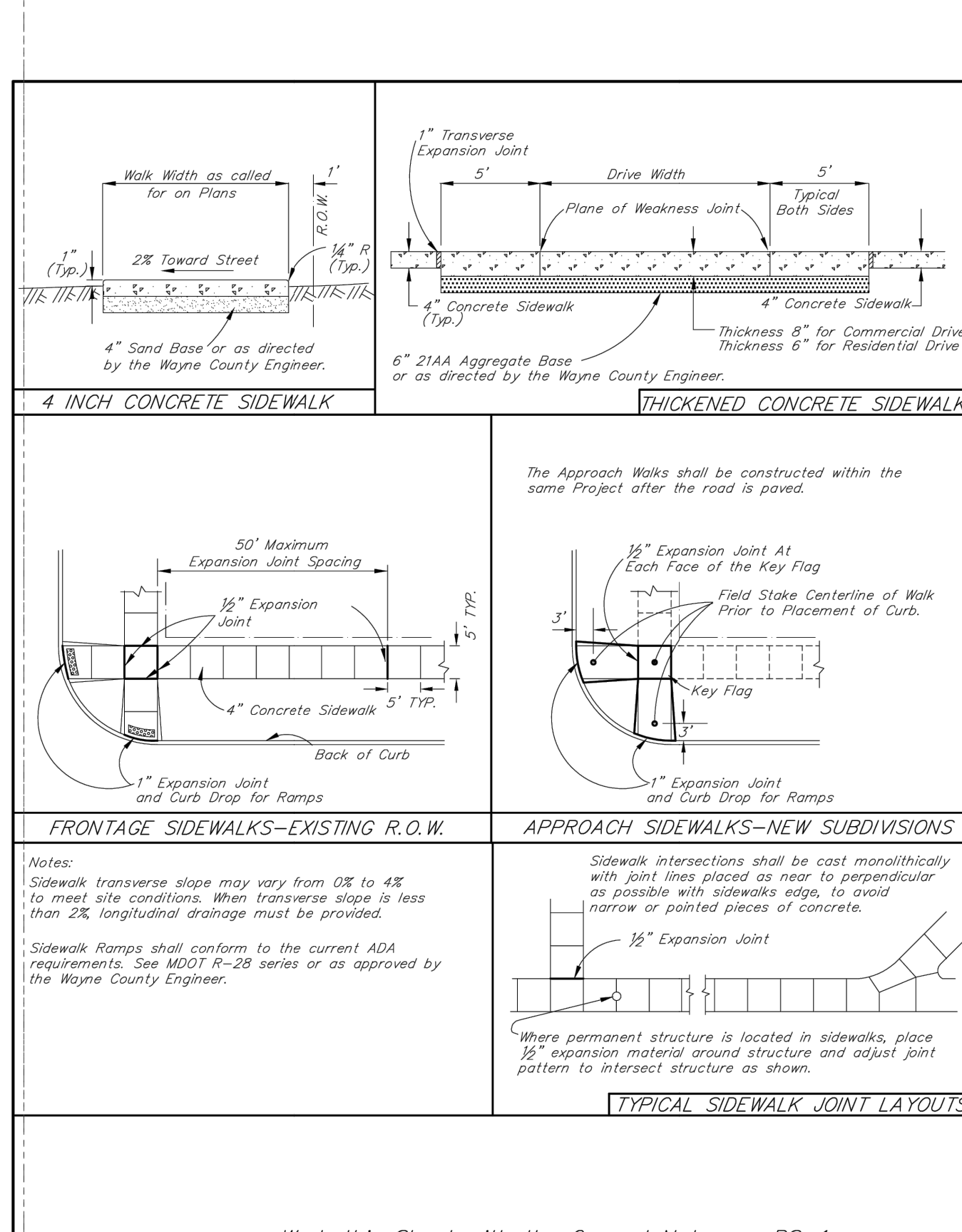
DEPARTMENT DIRECTOR
 Kirk T. Steude
 MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF DEVELOPMENT STANDARD PLAN FOR
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS
 6-27-2017
R-28-J
 SHEET 1 OF 7



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 BUREAU OF DEVELOPMENT STANDARD PLAN FOR
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS
 6-27-2017
R-28-J
 SHEET 2 OF 7



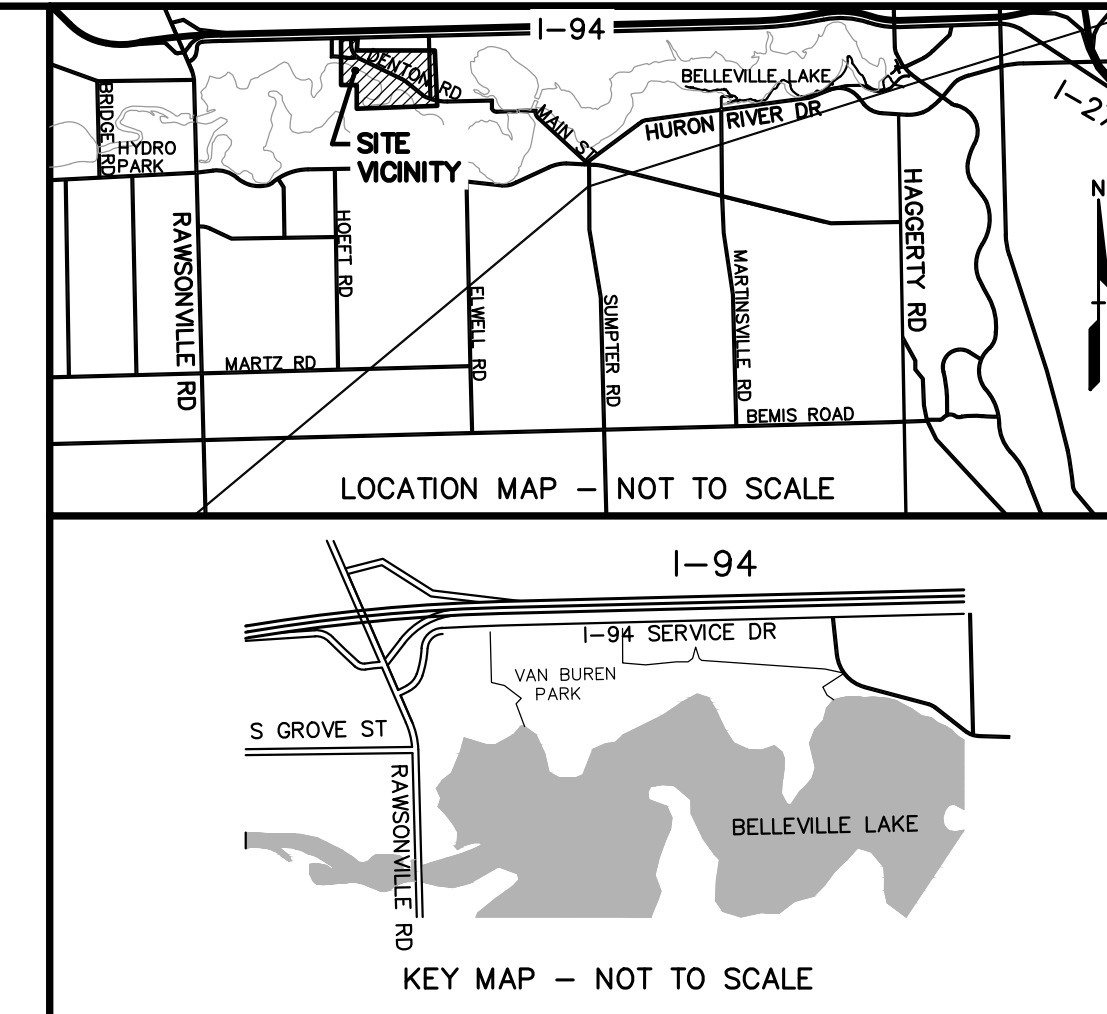
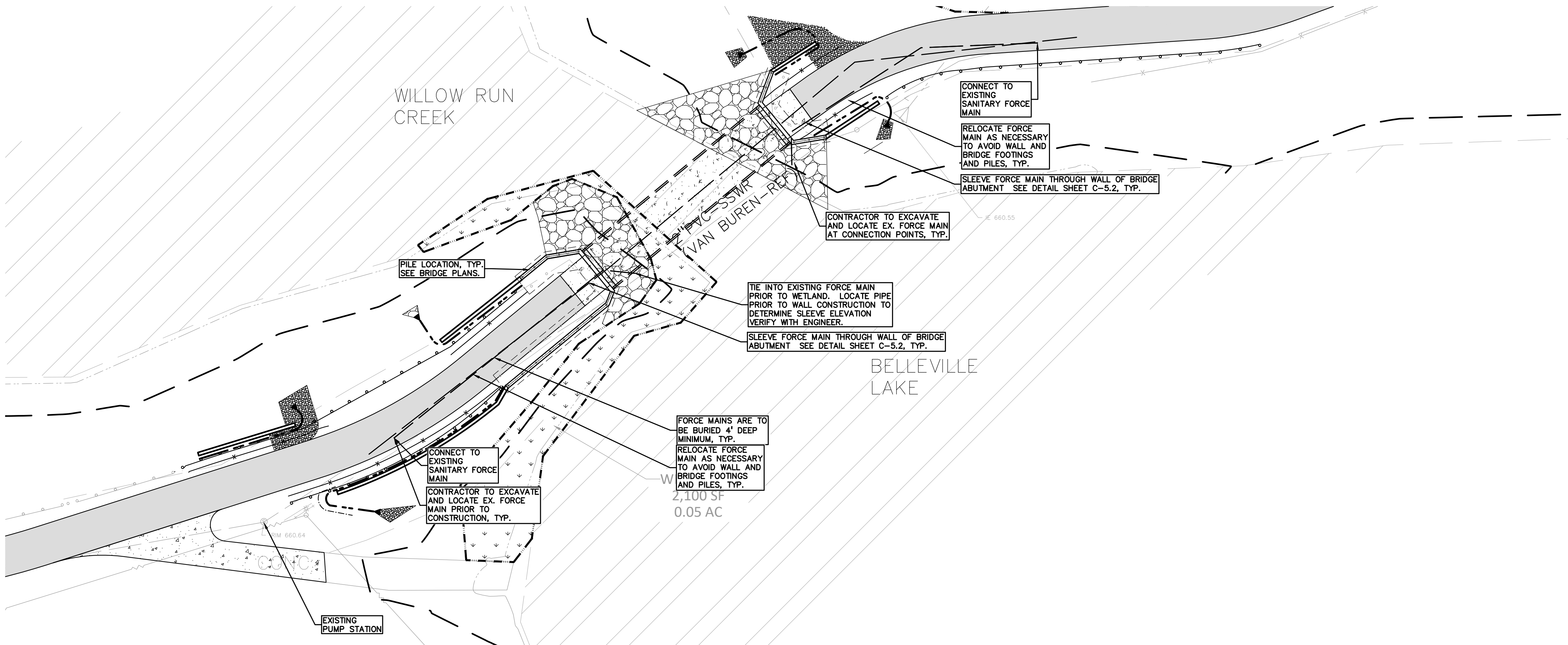
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SIDEWALK RAMP AND DETECTABLE WARNING DETAILS
 6-27-2017
R-28-J
 SHEET 1 OF 1



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 PERMIT STANDARDS
RS-5
 CONCRETE SIDEWALK
 SHEET 1 OF 1

VAN BUREN TOWNSHIP
 48425 TYLER ROAD
 VAN BUREN TOWNSHIP, MI 48111
IRON BELLE TRAIL-SECTION D
 WAYNE COUNTY, MI
 DES. JMR
 SUR. JWB
 P.M. JUS
 ORIGINAL ISSUE DATE:
 MARCH 19, 2021
 PEA JOB NO. 2019-369
 DRAWING NUMBER:
C-5.3

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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)TOWNSITE PLAN\19-369 VB PARKWAY PLANS\X-TOPOBASE.DWG
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 XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)TOWNSITE PLAN\19-369 VB PARKWAY PLANS\X-TLBK-19369.DWG



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4.	BY DATE
5.	BY DATE
6.	BY DATE
7.	BY DATE
8.	BY DATE
9.	BY DATE
10.	BY DATE

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- FORCE MAIN NOTES:**
1. CONTRACTOR IS TO COORDINATE WITH THE TOWNSHIP DPW THE LOCATE THE EXISTING FORCE MAIN ALONG THE ABUTMENTS AND WALLS WHERE PILES ARE REQUIRED. DEPTH AND LOCATION ARE NECESSARY TO DETERMINE CONFLICTS WITH THE PROPOSED ABUTMENT AND WALL. REFER TO BRIDGE PLANS.
 2. IF CONFLICTS ARE PRESENT WITH THE FORCE MAIN AND THE PROPOSED HELICAL PILES, CONTRACTOR IS TO FIELD CORRECT. CONTACT PEA TO COORDINATE A SITE MEETING WITH STRUCTURAL ENGINEER AND TOWNSHIP DPW.
 3. RELOCATION OF THE FORCE MAIN MAY BE REQUIRED. PLANS IDENTIFY A POSSIBLE LOCATION TO AVOID PILES.
 4. CONTRACTOR IS TO CONSIDER ALL COST THAT MAY BE ASSOCIATED WITH THIS ALTERNATE CONSTRUCTION METHOD AND INCLUDE IN THE COST PER LINEAR FOOT OF FORCE MAIN.
 5. IF A RELOCATION OF THE FORCE MAIN IS REQUIRED, BY PASS PUMPING IS INCIDENTAL TO THE COST OF 2" SANITARY SEWER FORCE MAIN. IT IS NOTED THE FORCE MAIN IS OUT OF SERVICE IN THE LATE FALL/WINTER.
 6. IF RELOCATION OF THE FORCE MAIN IS REQUIRED, UNDER THE STREAM A PERMIT FROM EGLE WILL BE REQUIRED AND A MINIMUM DELAY OF 4 MONTHS IS ANTICIPATED.
 7. ALL WORK IS TO BE DONE IN CONFORMANCE WITH VAN BUREN TOWNSHIP'S ENGINEERING STANDARDS.

Method – OPEN CUT

VAN BUREN TOWNSHIP		DES.	JMR	DN.	SUR.	JW	P.M.	JS
VAN BUREN TOWNSHIP, MI 48111		WAYNE COUNTY, MI						
FORCE MAIN RELOCATION 1		IRON BELLE TRAIL-SECTION D						

ORIGINAL ISSUE DATE:
 MARCH 19, 2021

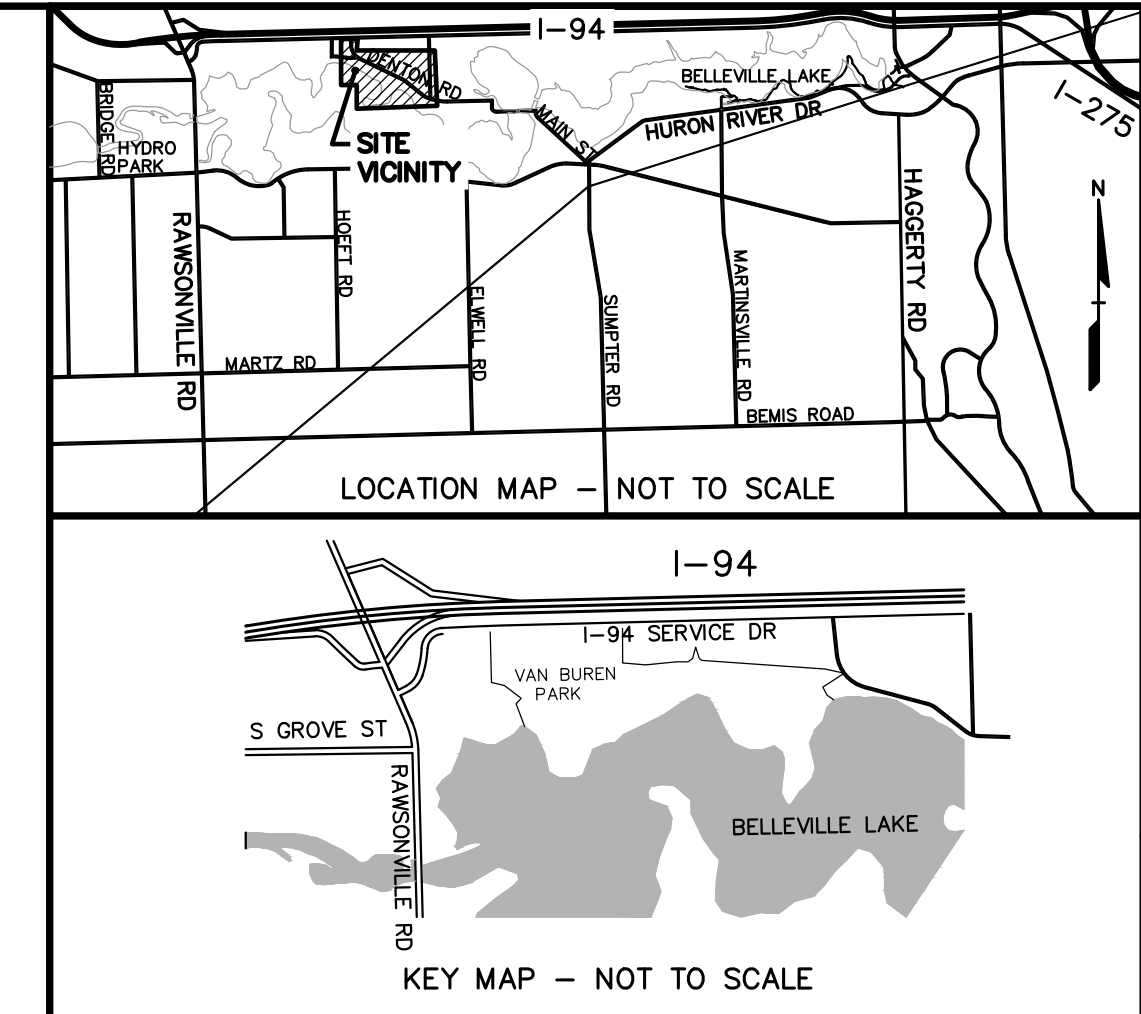
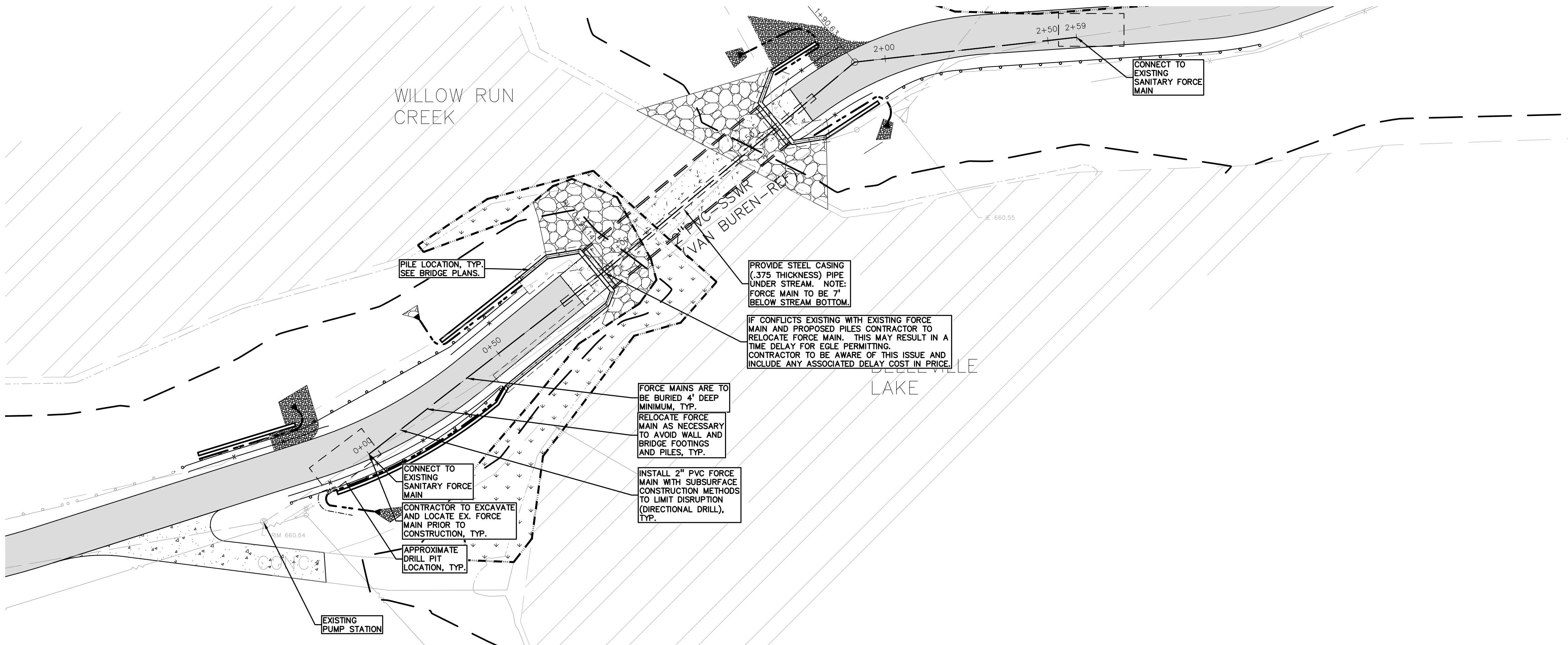
PEA JOB NO. 2019-369

1"=20'

DRAWING NUMBER:
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- FORCE MAIN NOTES:**
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 7. ALL WORK IS TO BE DONE IN ACCORDANCE WITH VAN BUREN TOWNSHIPS ENGINEERING STANDARDS AND EGLE REQUIREMENTS.

Method – SUBSURFACE

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VAN BUREN TOWNSHIP
 VAN BUREN TOWNSHIP, MI 48111
FORCE MAIN RELOCATION 2
IRON BELLE TRAIL-SECTION D

DES: JMR DN SUR: JW P.M. JS
 WAYNE COUNTY, MI

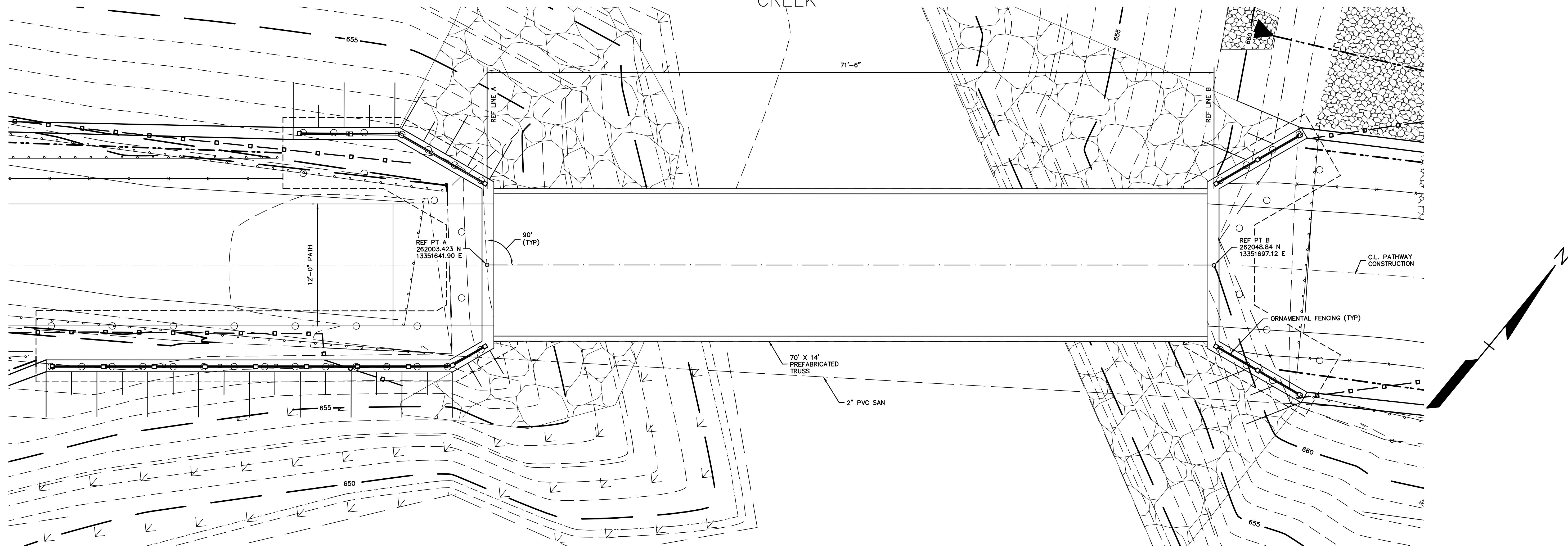
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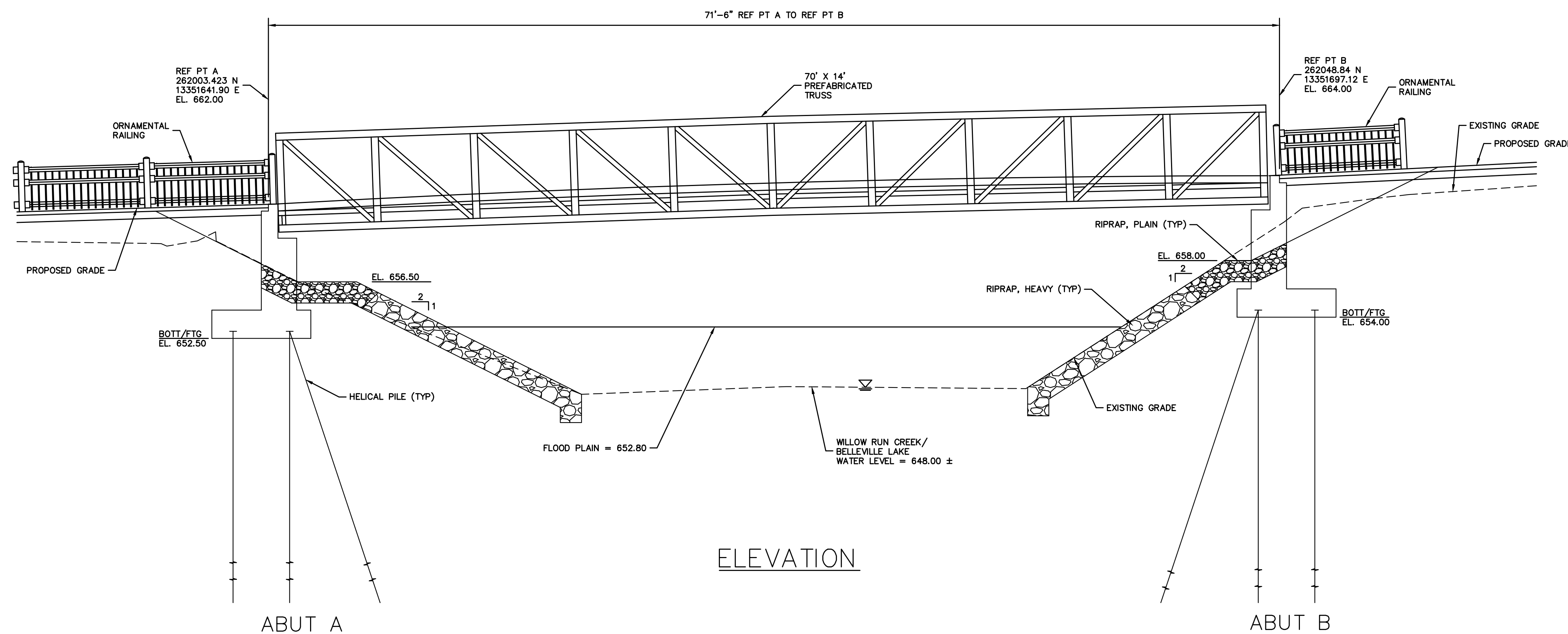
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DRAWING NUMBER:
C-6.2

WILLOW RUN CREEK



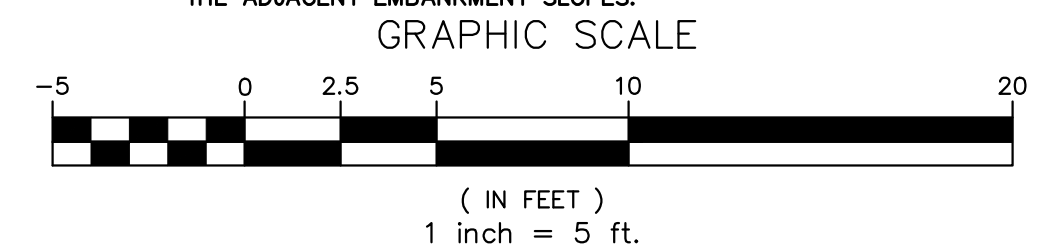
PLAN



ELEVATION

NOTES:

- THE DESIGN OF THIS STRUCTURE EXCEPT FOR THE PILES IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION PEDESTRIAN LOADING OF 90 PSF AND A MAINTENANCE VEHICLE (M10) LOADING, NOT ACTING CONCURRENTLY. LIVE LOAD DEFLECTION DOES NOT EXCEED 1/360 OF SPAN LENGTH. THE PILE DESIGN IS BASED ON THE 2002 AASHTO STANDARD SPECIFICATIONS FOR BRIDGE DESIGN.
- EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENT SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2020 EDITION.
- THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:
 CONCRETE: GRADE 3500 $f_c = 3,000$ psi
 CONCRETE: GRADE 4500 $f_c = 4,000$ psi
 STEEL REINFORCEMENT $f_y = 60,000$ psi
- PLACE GEOTEXTILE LINER ON ALL SLOPES PRIOR TO PLACING RIPRAP. PAYMENT FOR GEOTEXTILE LINER SHALL BE INCLUDED IN PAYMENT FOR RIPRAP.
- ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH $\frac{1}{2}$ " TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:
 CONCRETE CAST AGAINST EARTH: 3 in.
 ALL OTHER UNLESS SHOWN ON PLANS: 2 in.
- DO NOT OPEN STRUCTURE TO TRAFFIC UNTIL ALL PROPOSED CONCRETE ATTAINS 100% OF ITS SPECIFIED STRENGTH.
- FOR DETAILS OF SLOPE PROTECTION, SEE STANDARD PLAN B-102-SERIES.
- FOR RIPRAP DIMENSIONS AND QUANTITY SEE SHEET C4.2.
- PLAN ELEVATIONS REFER TO NAVD88 DATUM.
- WATER LEVEL IS SUBJECT TO CHANGE. MAKE A DETERMINATION OF WATER LEVELS THAT MAY EXIST DURING CONSTRUCTION.
- LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- IMPLEMENT MEASURES TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, REMOVE IT WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF, THE PREVENTATIVE MEASURES MUST BE EFFECTIVE. REMOVAL OF DEBRIS IS INCLUDED IN THE RELATED ITEMS OF WORK.
- IMMEDIATELY AFTER THE CONSTRUCTION OF AN ABUTMENT IS COMPLETED, PLACE SLOPE PROTECTION AND SEEDING OR SODDING ON THE ADJACENT EMBANKMENT SLOPES.



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 WAYNE COUNTY, MI
 DES. A/JF DN. MRM SUR. JW P.M. KM
 P: N:\P\2019\2019-369\2019-369 VB PARKWAY PLANS\General Plan.dwg

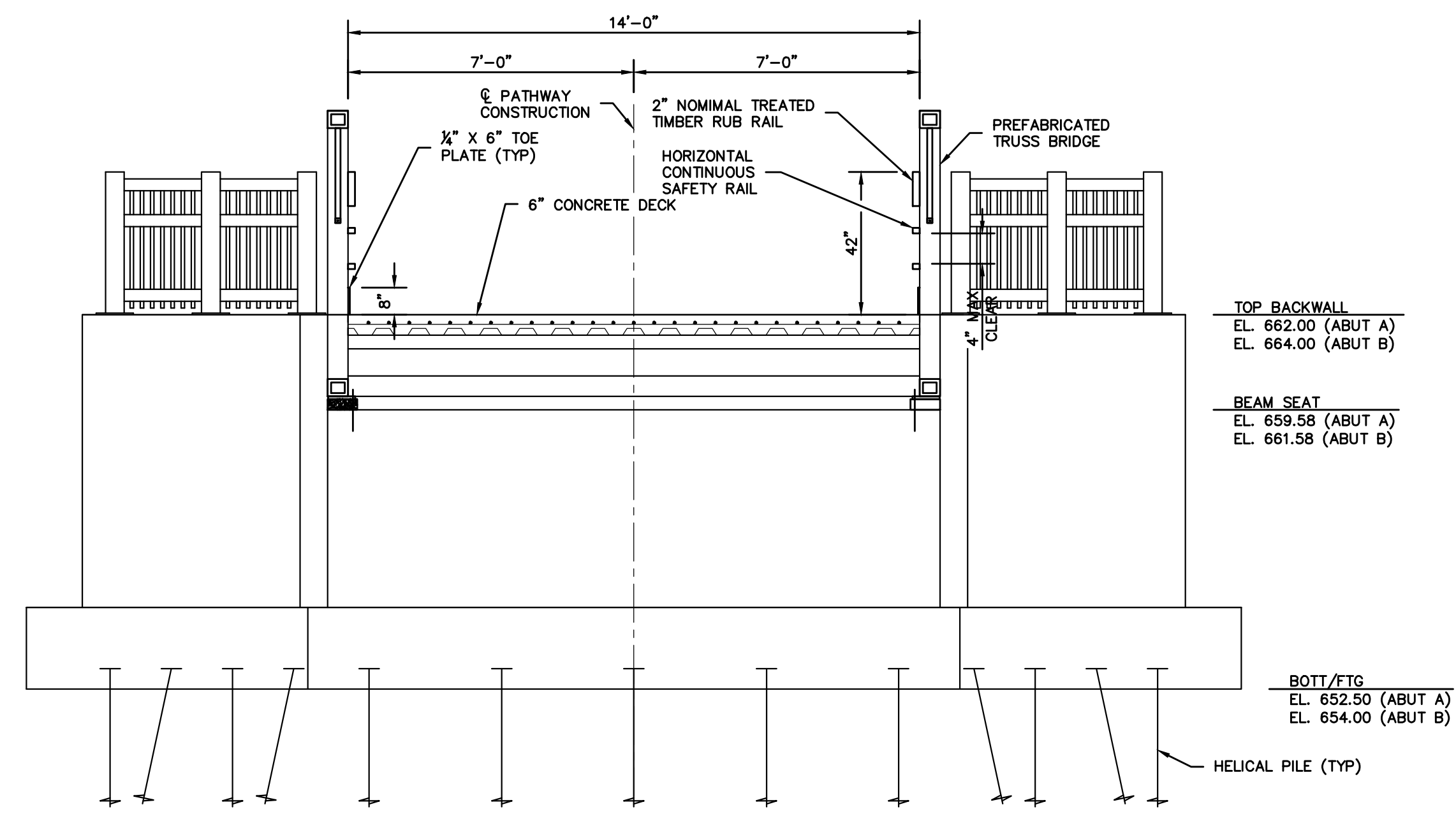
ORIGINAL ISSUE DATE:
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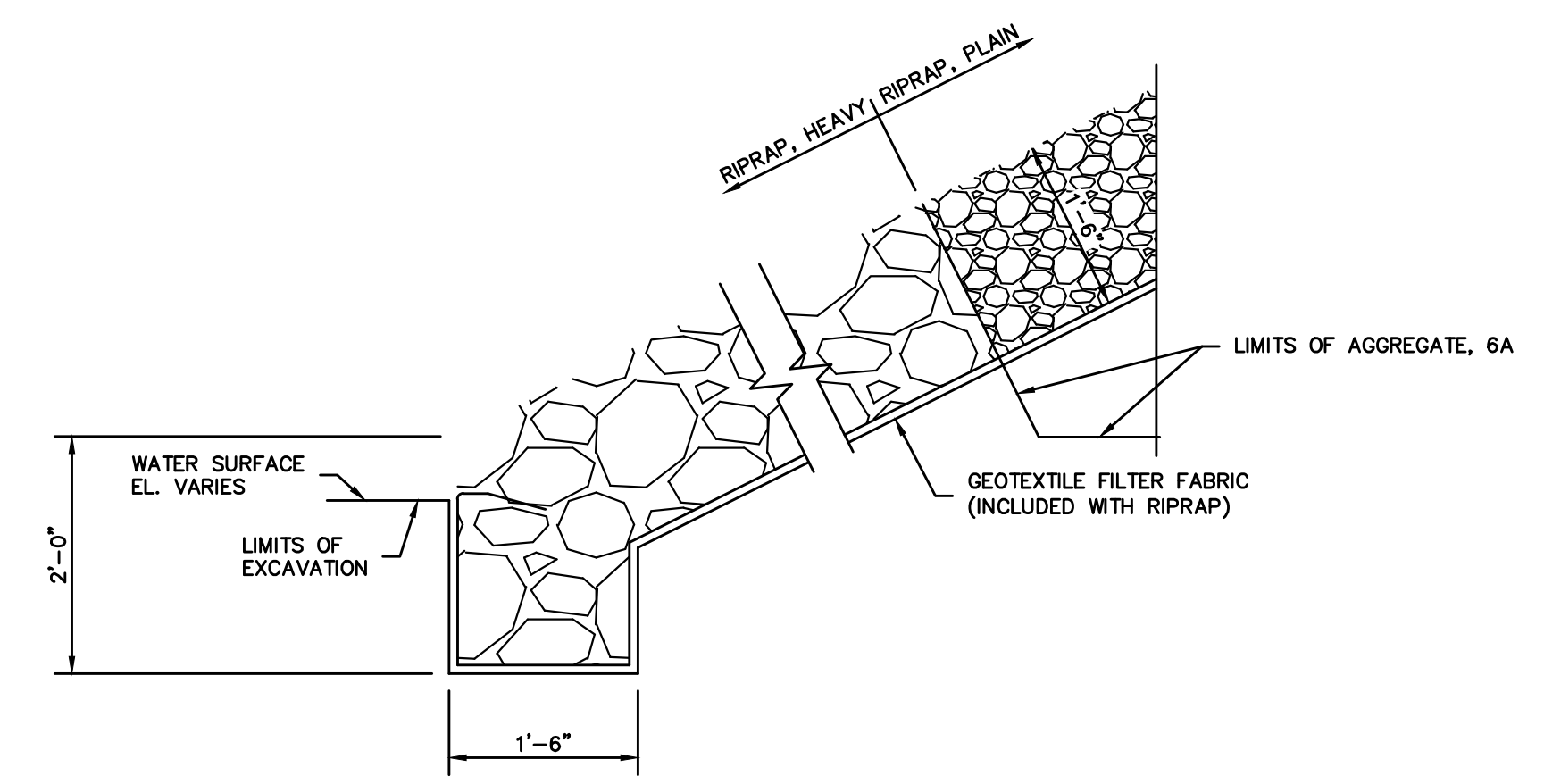
1" = 5'

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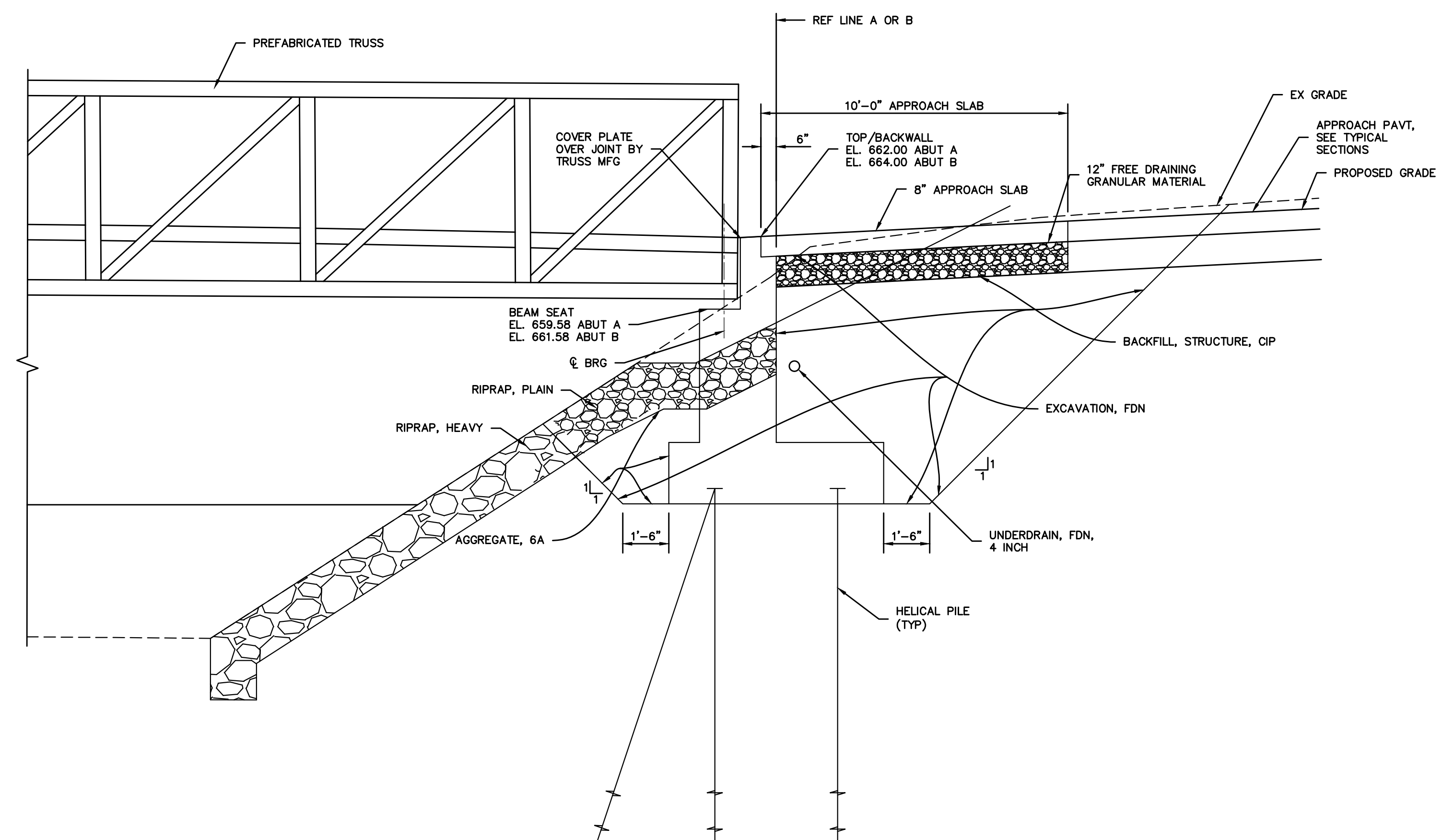
B-1



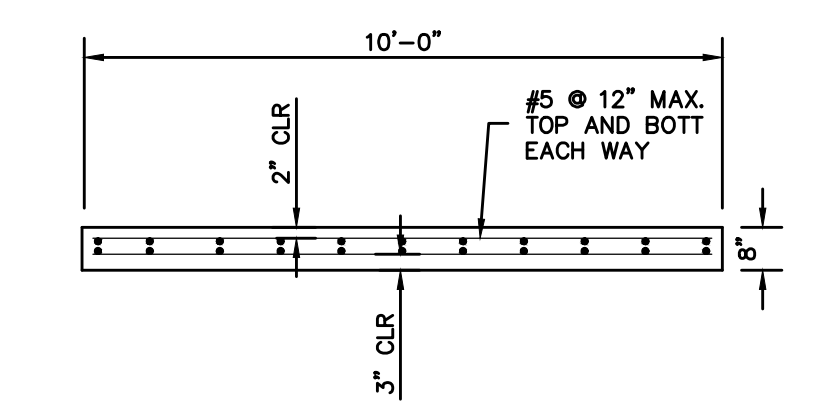
TYPICAL SECTION



RIPRAP HEADER



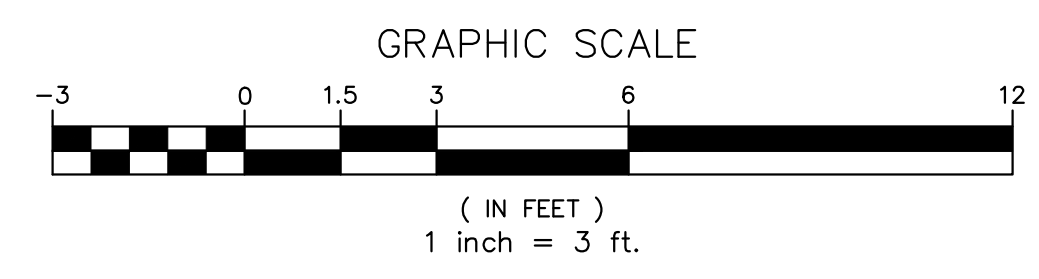
ABUTMENT SECTION



APPROACH SLAB LONGITUDINAL SECTION

MISCELLANEOUS QUANTITIES

490	CYD	EXCAVATION, FDN
380	CYD	BACKFILL, STRUCTURE, CIP
30	CYD	AGGREGATE, 6A
114	FT	UNDERDRAIN, FDN, 4 INCH
40	FT	UNDERDRAIN, OUTLET, 4 INCH
4	EA	UNDERDRAIN, OUTLET ENDING, 4 INCH
1	LSUM	STEEL PEDESTRIAN BRIDGE, FURN
1	LSUM	STEEL PEDESTRIAN BRIDGE, ERECT
1	LSUM	SUPERSTRUCTURE, CONC, FORM, AND CURE
26	CYD	SUPERSTRUCTURE CONC
4000	LB	REINFORCEMENT, STEEL, EPOXY COATED
26	CYD	LOW TEMPERATURE PROTECTION



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**GENERAL PLAN OF STRUCTURE
 IRON BELLE TRAIL-SECTION D**

WAYNE COUNTY, MI

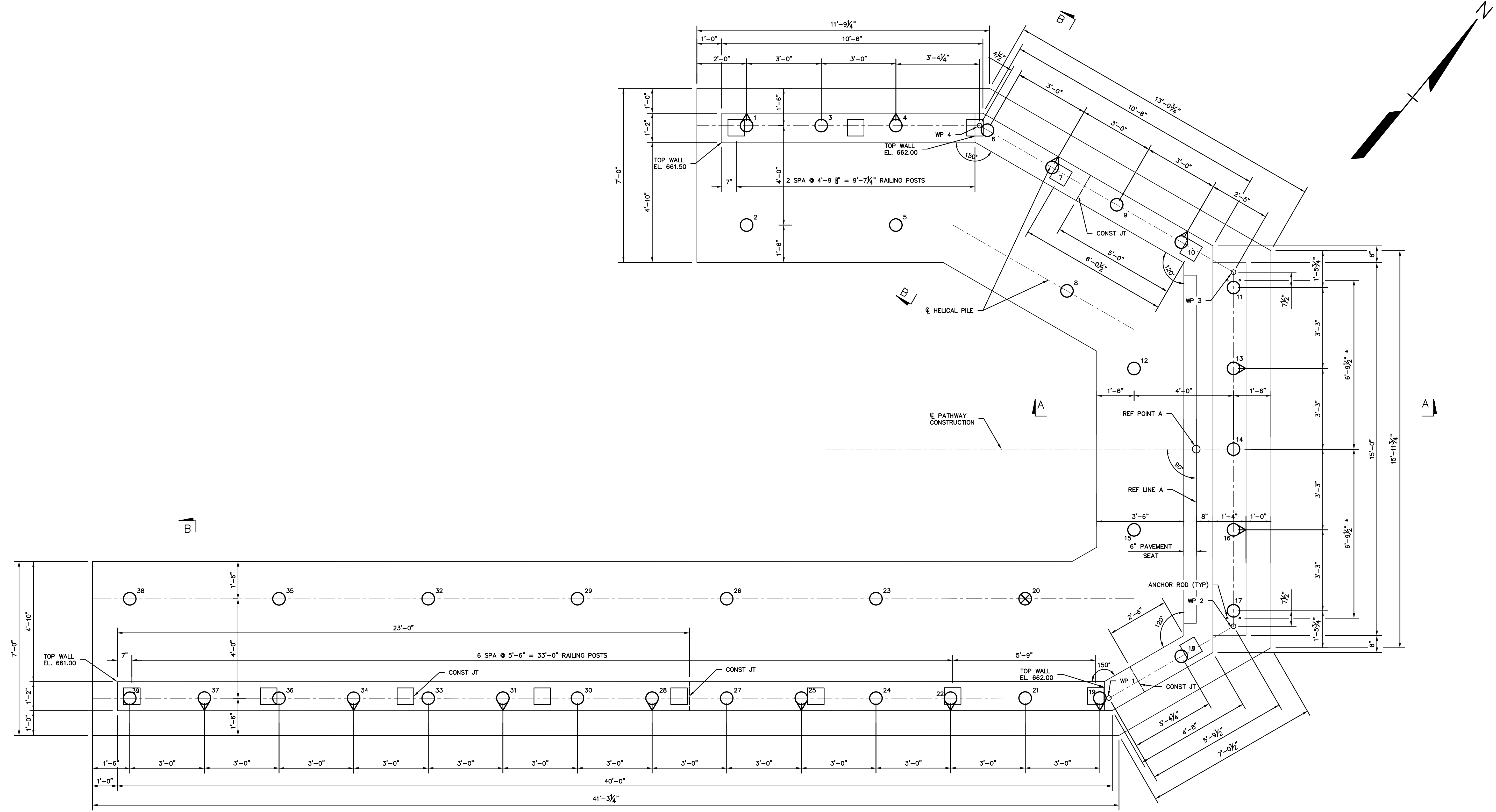
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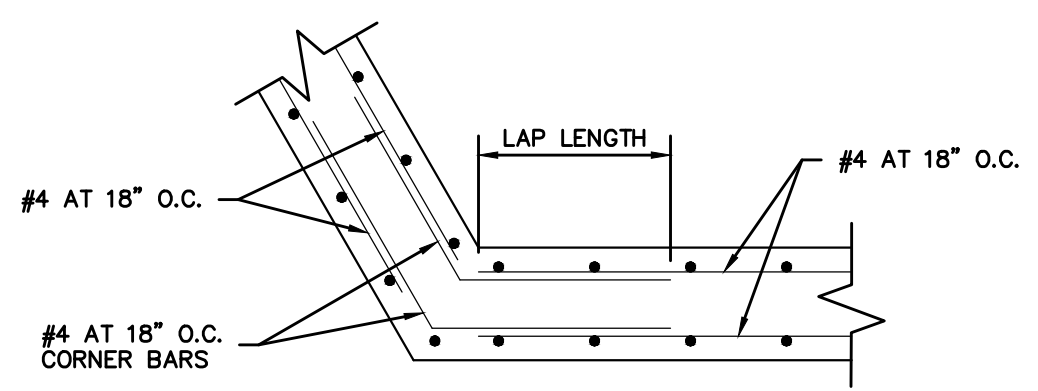
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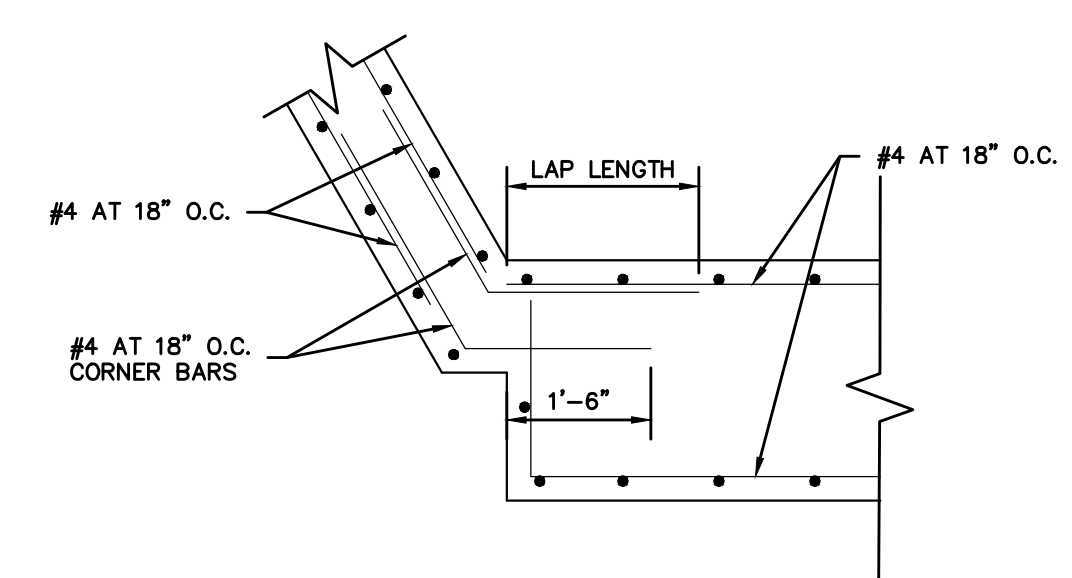


ABUTMENT A PLAN

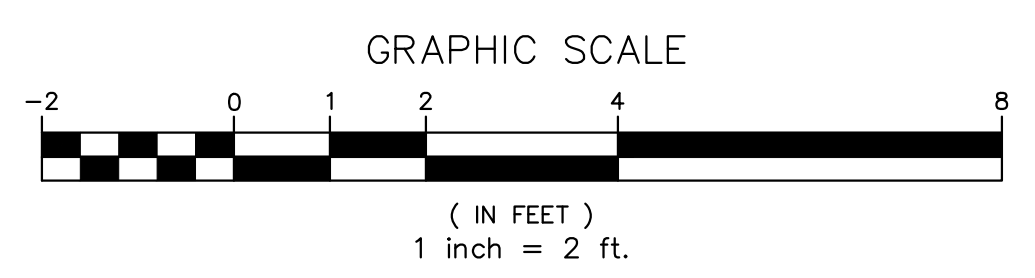
* ANCHOR ROD SPACING AS DETERMINED BY PREFABRICATED TRUSS MANUFACTURER.



BACKWALL TO WINGWALL CONNECTION PLAN



ABUTMENT TO WINGWALL CONNECTION PLAN



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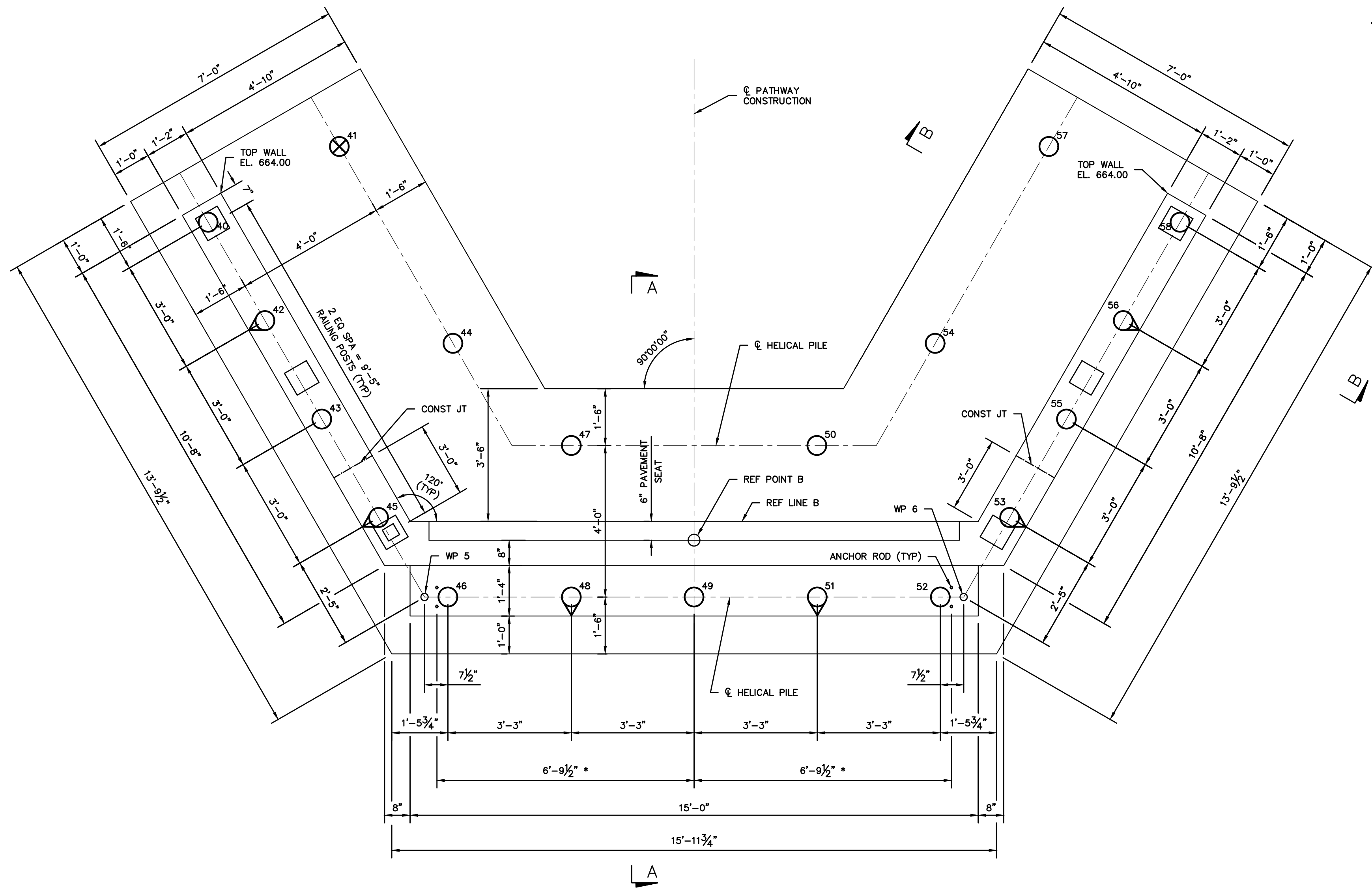
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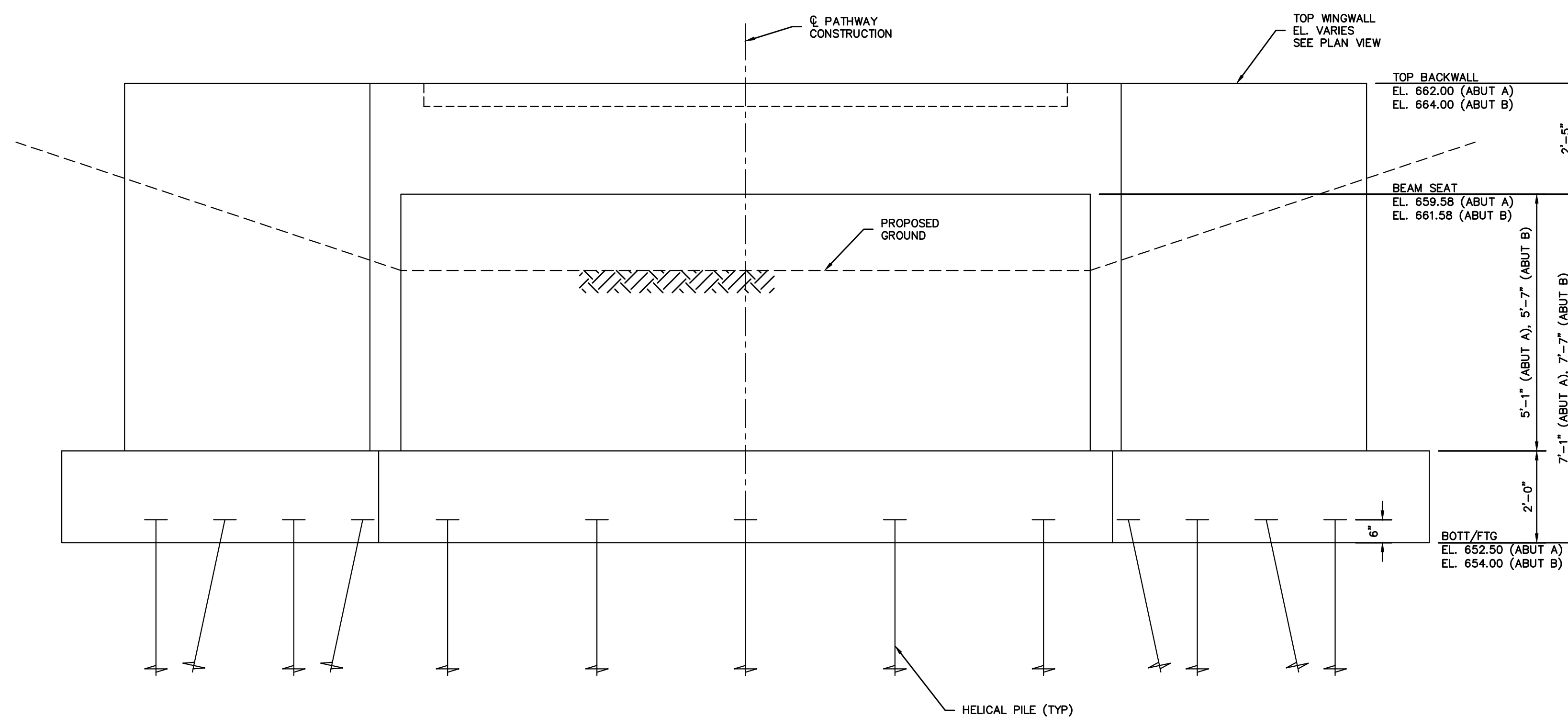
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		SUR.	JW
		P.M.	KM
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TT JOB NO. 200-12970-21001			
DRAWING NUMBER: B-3			

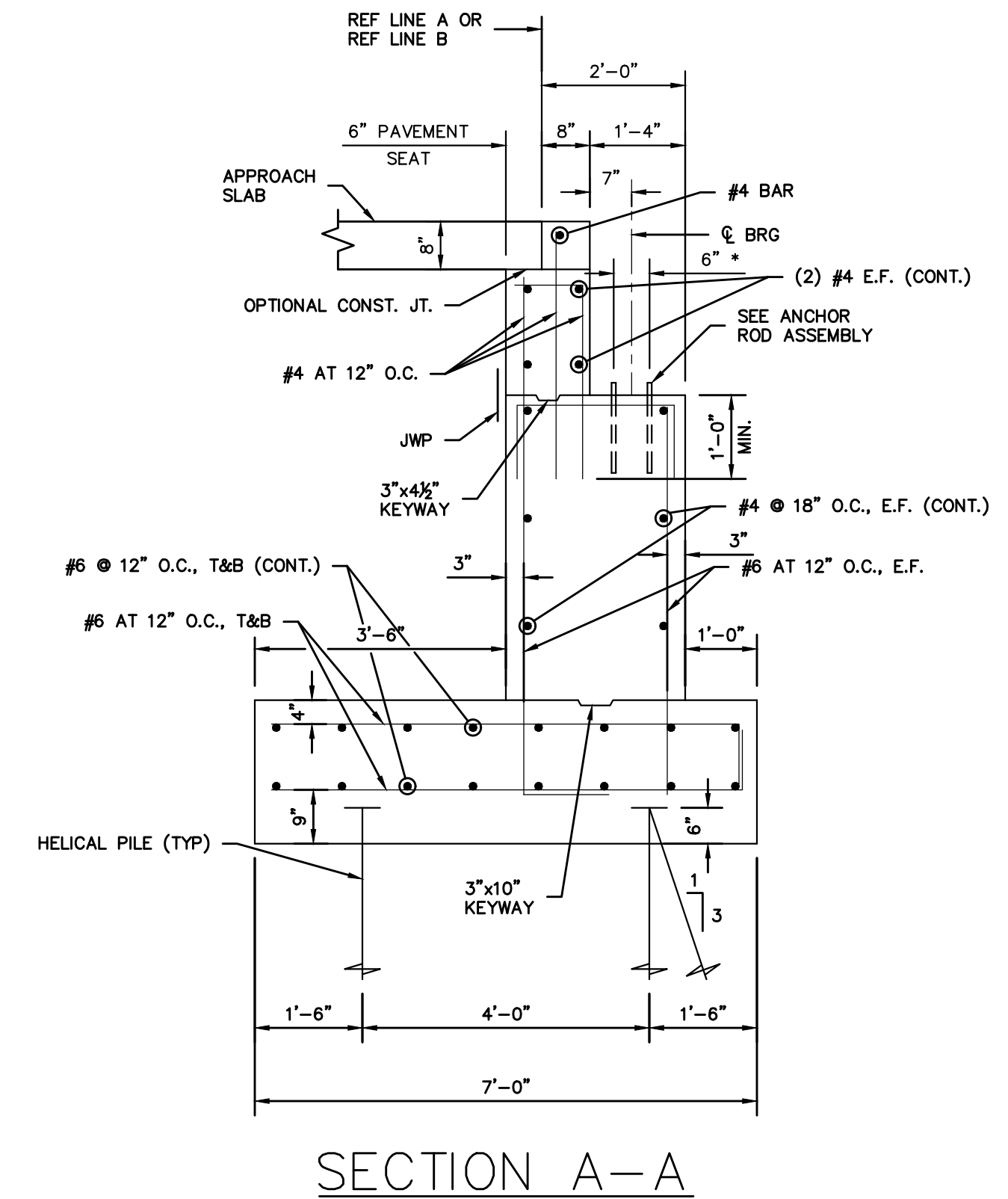


ABUTMENT B PLAN

* ANCHOR ROD SPACING AS DETERMINED BY PREFABRICATED TRUSS MANUFACTURER.



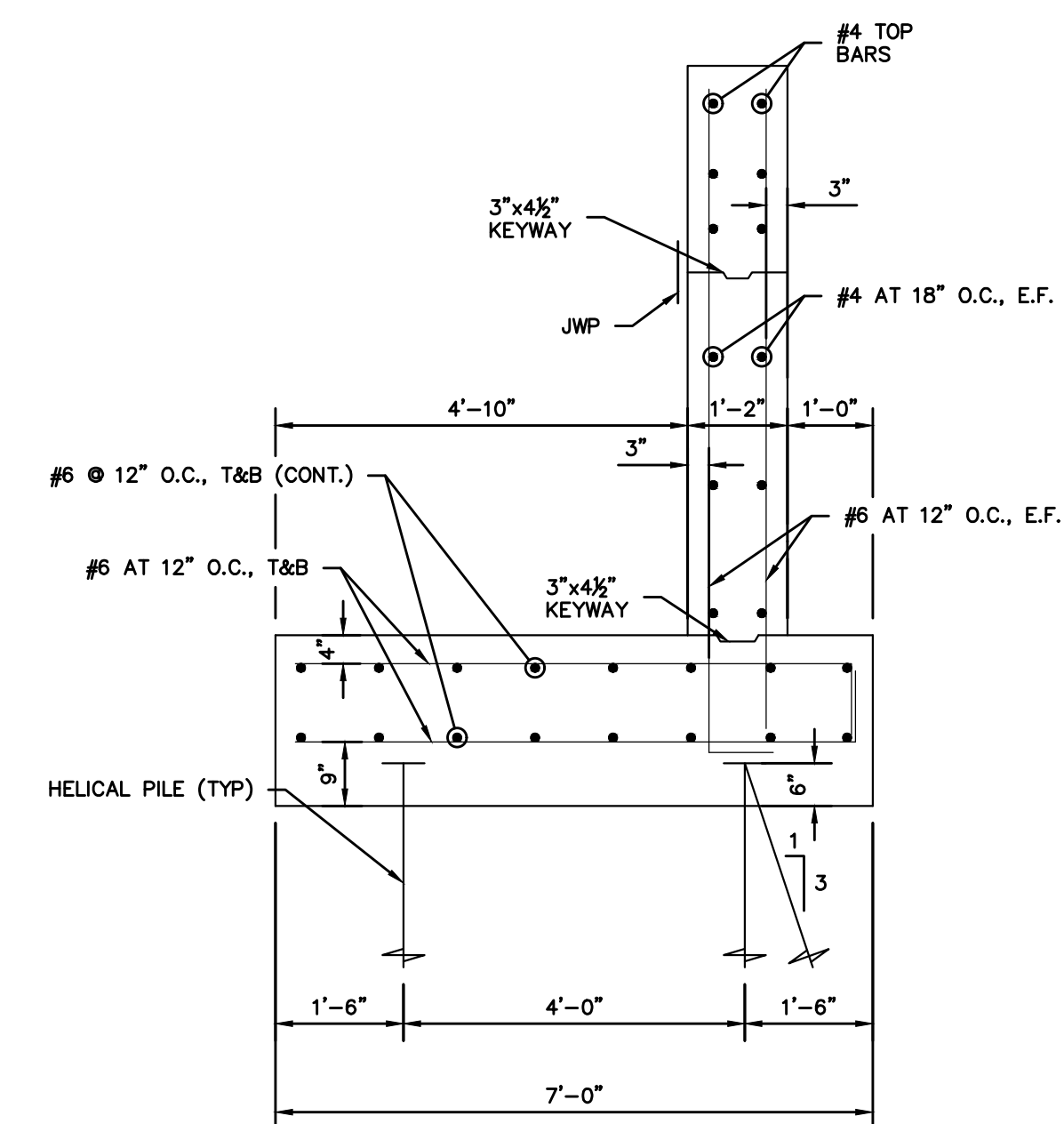
ABUTMENT ELEVATION



* ANCHOR ROD SPACING AS DETERMINED BY PREFABRICATED TRUSS MANUFACTURER.

NOTES:

- FOR BEVEL AND MOLDING DETAILS, SEE MDOT STANDARD PLAN B-103-SERIES.
- APPLY LOW TEMPERATURE PROTECTION OF CONCRETE ACCORDING TO SECTION 706.03 J, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE IS INCLUDED IN THE RELATED ITEMS OF WORK.
- APPLY SUBSTRUCTURE HORIZONTAL SURFACE SEALER TO THE TOP HORIZONTAL SURFACE OF ABUTMENTS AFTER THE ELASTOMERIC BEARINGS HAVE BEEN PLACED IN FINAL POSITION ON THE STRUCTURE. VERTICAL SURFACES ACCIDENTALLY COATED SHALL BE CLEANED AT CONTRACTOR'S EXPENSE.
- HELIC PILE TO HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 120 KIPS.
- THE FACTOR OF SAFETY USED TO DETERMINE THE ALLOWABLE PILE CAPACITY IS 2.0.
- MINIMUM PILE TIP ELEVATION IS 630.00.
- ALL STEEL REINFORCEMENT TO BE EPOXY COATED.
- MINIMUM LAP LENGTH FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - #4 BAR = 2'-0"
 - #6 BAR = 3'-0"
- ABBREVIATIONS:
 E.F. DENOTES EACH FACE
 O.C. DENOTES ON CENTER
 T&B DENOTES TOP AND BOTTOM
 CONT. DENOTES CONTINUOUS
 JWP DENOTES JOINT WATERPROOFING



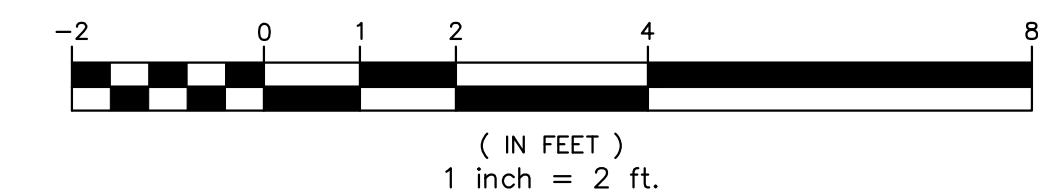
SECTION B-B

- PILE LEGEND:**
- DENOTES HELIC PILE
 - ⊗ DENOTES TEST HELIC PILE
 - ◐ DENOTES HELIC PILE BATTERED 3V:1H IN THE DIRECTION OF THE ARROW

	+ DOWNWARD LOAD			- UPWARD LOAD		
	P (LBS)	H (LBS)	L (LBS)	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	20,125					
UNIFORM LIVE LOAD	22,050					
VEHICLE LOAD	10,000					
WIND UPLIFT		WINDWARD	-7,790			
20 PSF		LEEWARD	-2,597			
WIND	±2,110		7,965			
THERMAL						3,020

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
 "H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
 "L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

GRAPHIC SCALE



MISCELLANEOUS QUANTITIES

58	EA	HELIC PILE
1	LSUM	HELIC PILE EQUIPMENT, FURN
2	EA	HELIC PILE LOAD TEST
1	DLR	OBSTRUCTION REMOVAL, UNEXPECTED
119	CYD	SUBSTRUCTURE CONC
119	CYD	CONC, LOW TEMPERATURE PROTECTION
11900	LBS	STEEL REINFORCEMENT, EPOXY COATED
171	SFT	JOINT WATERPROOFING
75	SYD	WATER REPELLENT TREATMENT, PENETRATING
5	SYD	SUBSTRUCTURE HORIZONTAL SURFACE SEALER

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1" = 2'

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