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# BARTON NATURE AREA BORDER TO BORDER TRAIL CITY OF ANN ARBOR PARKS AND RECREATION SERVICES & WASHTENAW COUNTY PARKS AND RECREATION COMMISSION CITY RFP# 23-54

M.D.O.T. STANDARD PLANS	
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\*MDOT SPECIAL DETAIL

### GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, ASSHTO'S 2011 A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AASHTO'S 2012 GUIDE TO THE DEVELOPMENT OF BICYCLE FACILITIES.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ANN ARBOR, AND WASHTENAW COUNTY PARKS AND RECREATION COMMISSION WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 OR 811. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE OWNER.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, PERFORM ALL WORK 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

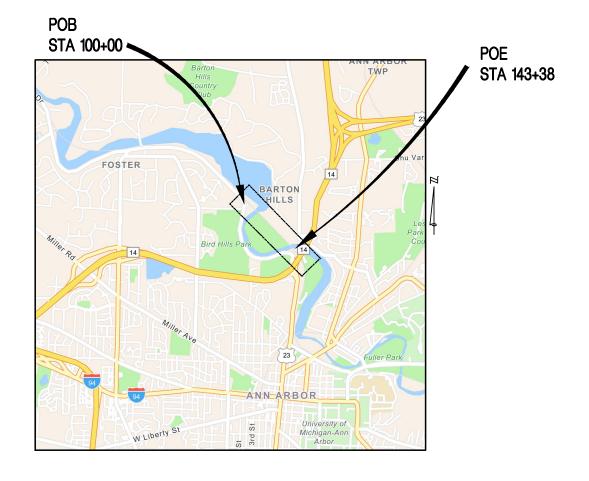
f'c = 3,500 psi

TEEL REINFORCEMENT Fy = 60,000 psi

STRUCTURAL STEEL (INCLUDING H-PILES, SPLICES AND PILE POINTS): AASHTO M270 GRADE 50 Fy = 50,000 psi

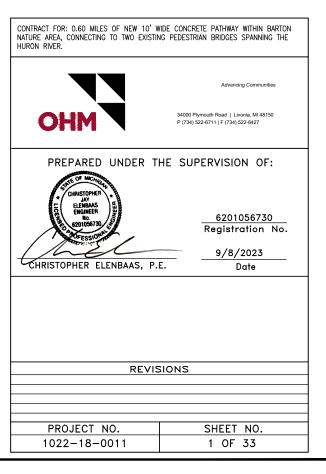
UNLESS OTHERWISE SHOWN ON THE PLANS, PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:

CONCRETE CAST AGAINST EARTH: 3 IN.
ALL OTHER UNLESS SHOWN ON PLANS: 2 IN.



# LOCATION MAP

APPLICATION DATE	PERMITS	APPROVAL DATE
9/8/2023	EGLE JOINT PERMIT	
BY CONTRACTOR	CITY OF ANN ARBOR SESC PERMIT	



### UTILITY PATTERN WATER & SEWER UTILITY SYMBOLS MISCELLANEOUS UTILITY SYMBOLS MISCELLANEOUS SYMBOLS REMOVAL LEGEND **EXISTING EXISTING EXISTING EXISTING** SIDEWALK REMOVAL ARCHITECTS ENGINEERS PLANNERS \_\_\_\_\_ . \_\_ELEC . \_\_\_ . \_\_\_ . \_\_\_ . \_\_\_ . \_\_\_ . \_\_\_ . \_\_\_ ELECTRICAL \* STORM MANHOLE GUY WIRE RIPRAP 34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-642 SQUARE CATCH BASIN $\varnothing_{\mathsf{GP}}$ GUY POLE SIGN HMA SURFACE REMOVAL 6" (COMPANY) GAS $\varnothing_{\mathsf{U}}$ ROUND CATCH BASIN UTILITY POLE FLOW DIRECTION OHM-ADVISORS.COM PAVEMENT REMOVAL <del>\</del> — CULVERT UTILITY POLE W/LIGHT STLIME .\_\_\_\_FIBER\_OPTIC \* <del>-</del>\$-CULVERT W/O END SECTION LIGHT/DECOR LAMP POLE علد WETLAND COLD MILLING HMA SURFACE \$ CONIFEROUS TREE CL 1 1" TO 5" CL 2 6" TO 17" CL 3 18" TO 35" CL 4 36" AND UP CULVERT W/END SECTION FLOOD LIGHT ₩. \_\_\_\_\_12" <u>wm</u> \_\_\_\_ \_ \_ WATER HMA BASE CRUSHING AND SHAPING SANITARY MANHOLE $\langle \rangle$ (0) 6 CLEAN OUT GAS VENT CONIFEROUS SHRUB EXCAVATION, EARTH, MODIFIED \_\_\_\_\_<u>12" STM \_\_\_</u>\_\_\_ STORM GATE VALVE & WELL GAS METER DECIDUOUS SHRUB GATE VALVE & BOX (G) SOIL BORING GAS RISER REMOVE GRAVEL & PLANT SEED **PROPOSED** W WATER STOP BOX $\Diamond$ SECTION CORNER TRAFFIC SIGNAL STORM/SANITARY/WATER $\nabla$ FIRE HYDRANT -**(**P)-PEDESTRIAN RISER PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LINESTYLE MP METER PIT E IRON ROD/PIPE CURB AND GUTTER, REM -xxxxxxx TRANSFORMER PAD Ф WATER METER Οu PK NAII PRIVATE UTILITY MANHOLE $\otimes$ \*OH = OVERHEAD , UG = UNDERGROUND TREE, REM SPRINKLER HEAD RX R BENCHMARK RAILROAD CROSSING ●вм# S-XXXXXX SALVAGE **ROW PATTERN** IRRIGATION VALVE ∆ TP# TRAVERSE POINT Ε ELECTRIC METER MAIL/NEWSPAPER BOX B-XXXXXX BULKHEAD PB PHONE BOOTH **EXISTING** <u>PROPOSED</u> FLAG POLE TS TRAFFIC SIGNAL CONTROLLER A-XXXXXX ABANDON 111111 HAND HOLE POST R-XXXXXX REMOVE USED WITH UNDERGROUND GAS & HAZARDOUS OR FLAMMABLE MATERIAL INLET/CATCH BASIN (E) ELECTRIC RISER ELECTRICAL LINES ADJUST ADJ-XXXXXX CULVERT END SECTION $\langle \hat{1} \rangle$ PROPERTY/PARCEL TELEPHONE RISER CAUTION — CRITICAL UNDERGROUND UTILITY USED WITH TELEPHONE & SANITARY MANHOLE $\langle \hat{c} \rangle$ FIBER OPTIC LINES CABLE TV RISER **PROPOSED** REL-XXXXXXX RELOCATE (W) GATE VALVE & WELL MONITORING WELL **PROPOSED** REC-XXXXXX RECONSTRUCT GATE VALVE & BOX UNDERGROUND MARKER RIPRAP R B/O-XXXXXX REMOVE BY OTHERS TAPPING SLEEVE VALVE & WELL 1,1,H,1,H,H SIGN TAPPING SLEEVE VALVE & BOX TOPO PATTERN ADJ B/O-XXXXXX ADJUST BY OTHERS FLOW DIRECTION FIRE HYDRANT **EXISTING** REL B/O-XXXXXX RELOCATE BY OTHERS STRUCTURE NUMBER WM SAN STM IF NECESSARY FOR CLARITY CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL ADA SIDEWALK RAMP SALVAGE S GRAVEL (B) BULKHEAD CENTERLINE OF DITCH A ABANDON © CLEARING ® REMOVE (REL) WETLAND/EDGE OF WATER RELOCATE (REC) RECONSTRUCT REAL ESTATE SYMBOLS • — • — • — • — • — • — • — 100 YEAR FLOODPLAIN (REL B/O) RELOCATE BY OTHERS **PROPOSED** CONTIGUOUS PROPERTY SYMBOL ADJ B/O ADJUST BY OTHERS GRADING LIMIT \_\_\_\_\_ PARCEL NUMBER BOX SPECIAL LEGEND NO ROW IMPACTS Riprap, Cobblestone Infiltration Trench, Det A EROSION CONTROL, SILT FENCE EROSION CONTROL, WATTLES

### BENCH MARK ELEVATIONS

BENCHMARK ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988.

### CONSTRUCTION & SOIL EROSION CONTROL SCHEDULE

PLACE SILT FENCE AND INLET PROTECTION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE

REMOVE EXISTING PAVEMENT AND STORM SEWERS. GRADE CONSTRUCTION AREAS. INSTALL NEW STORM SEWER AND CONSTRUCT CURB AND GUTTER. IMMEDIATELY AFTER CONSTRUCTION, FINISH GRADE CONSTRUCTION AREA TO PROVIDE POSITIVE DRAINAGE; THEN TOPSOIL AND SEED ALL DISTURBED GRASSED AREAS. PLACE SEEDING AS SHOWN IN TYPICALS.

REMOVE INLET FILTERS AS PAVEMENT IS INSTALLED. AFTER PAVING REINSTALL STONE FILTERS AT ALL PAVEMENT STORM INLET STRUCTURES, AND CLEAN STORM SEWER OF ALL ACCUMULATED DEBRIS AND

REMOVE TEMPORARY EROSION CONTROLS AFTER THE SITE IS APPROVED BY THE ENGINEER

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT TEMPORARY EROSION CONTROLS ARE MAINTAINED AS REQUIRED THROUGHOUT CONSTRUCTION AND THAT THE ROADWAYS ARE KEPT FREE OF MUD AND CONSTRUCTION DEBRIS.

### SOIL EROSION AND SEDIMENTATION CONTROL

THE CONTRACTOR SHALL CONFORM TO PART 91 OF ACT 451 OF 1994 OF THE STATE OF MICHIGAN. SOIL EROSION AND SEDIMENTATION CONTROL, AND ALL LOCAL ORDINANCE(S) FOR SOIL EROSION AND SEDIMENTATION CONTROL.

### UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 74, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 (OR 811) A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE LOCATION OF ALL PUBLIC LITHITIES SHOWN ON THE PLANS ARE TAKEN FROM THE BEST AVAILABLE DATA. THE WASHTENAW COUNTY PARKS AND RECREATION COMMISSION WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED. REPARATIONS OF UTILITIES DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE AFFECTED UTILITY OWNERS REQUIREMENTS.

ALL PRIVATE UTILITY STRUCTURES WILL BE ADJUSTED TO GRADE BY THE OWNER OF THE FACILITY. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THREE (3) WORKING DAYS NOTICE PRIOR TO THE START OF SUCH WORK

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

1. CITY OF ANN ARBOR UTILITIES 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108 ATTN: KEVIN SCHNEIDER, STORM DAN WOODEN, WATER TRAVIS CONLEY, SANITARY MATT WAI DSMITH, FORFSTRY

PH: 734-794-6350 2. FOR ELECTRIC DTF ENERGY

> 1 ENERGY PLAZA DETROIT, MI 48226 ATTN: ANTHONY IGNASIAK PH: 313-397-4447

DTF GAS COMPANY 1 ENERGY PLAZA - WCB 1710 DETROIT, MI 48226 ATTN: CHRIS COLLINS PH: 313-999-0066

4. FOR GAS: CONSUMER'S ENERGY 530 W WILLOW ST ATTN: KEVIN L COUTURIER PH: 989-574-7538

5. FOR TELEPHONE: 550 S MAPLE ROAD ANN ARBOR, MI 48103 ATTN: MICHAEL JAREMA PH: 734-996-5385

6. FOR CABLE TELEVISION 27096 OAKMEAD DR PERRYSBURG, OH 4355 ATTN: CHRIS CYR PH: 734-359-1665

7. FOR FIBER OPTIC CENTURY LINK 1025 ELDORADO BLVD BROOMFIELD, CO 80021 ATTN: RYAN EGAN PH: 414-224-6767

8. FOR RAILROAD UTILITIES AMTRAK ENGINEERING DEPT 2330 BROOKLYN ROAD JACKSON, MI 49203 ATTN: RAY WFINFI EMAIL: WEIN2535@AMTRAK.COM AMTRAK IS NOT A MISS-DIG MEMBER CONTACT AMTRAK DIRECTLY FOR SCHEDULING

### CONSTRUCTING RIPRAP

RIPRAP SHALL BE PLACED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION SUBSECTION 813.03.E, AND SHALL INCLUDE FURNISHING AND PLACING A GEOTEXTILE LINER AS SPECIFIED. THIS LINER WILL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE RIPRAP ITEM(S). ALL RIPRAP SHALL BE NATURAL COBBLE.

### COVERS AND CASTINGS

CASTINGS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, WITH MATERIAL APPROVED BY THE ENGINEER.

### CULVERTS AND SEWERS

CULVERT AND SEWER LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE LENGTHS NEEDED FOR PLACEMENT. THE PAY QUANTITY IS LESS THE 'C' DIMENSION (SEE STANDARD PLAN R-86-SERIES). PAYMENT SHALL BE MEASURED IN THE FIELD.

### FINISH EARTH GRADING

CONSTRUCTION OF EARTH GRADES SHALL BE CLASS 'A'. REFER TO SECTION 205.03 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

### LANDSCAPING

THE CONTRACTOR SHALL NOT DISTURB ANY LANDSCAPING FEATURES PROTECTED BY FENCING OR LOCATED OUTSIDE OF THE SLOPE STAKE LIMITS. ANY LANDSCAPING THAT IS DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BECOME THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

### MINOR GRADING

MINOR GRADING REQUIRED TO PROVIDE POSITIVE DRAINAGE OR TO MEET EXISTING DRAINAGE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR Shared use Path, Grading, Modified.

### OPEN EXCAVATIONS

THE PLACEMENT OF PROTECTIVE FENCING MEETING MIOSHA STANDARDS IS REQUIRED AROUND ALL OPEN EXCAVATIONS. THIS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE ITEM UNDER CONSTRUCTION.

### PROPERTY OWNERS

PROPERTY OWNERS' NAMES, WHERE SHOWN ON THE PLANS, ARE FOR INFORMATION ONLY AND THEIR

### TREE STUMP REMOVAL

THE CONTRACTOR SHALL REMOVE TREE STUMPS AND BACKELL HOLES THAT ARE WITHIN THE GRADING LIMITS. THIS WORK IS INCLUDED IN THE ITEM "Shared use Path, Grading, Modified".

### AGGREGATE BASE

AGGREGATE BASES FOR TRAIL, ROAD, AND GRAVEL PATH CONSTRUCTION SHALL USE AGGREGATE 21AA LIMESTONE, UNLESS OTHERWISE SPECIFIED. THE USE OF CRUSHED CONCRETE IS PROHIBITED. COMPACT ALL AGGREGATE BASES TO AT LEAST 95% OF THE MAXIMUM UNIT WEIGHT AT A MOISTURE

### SIDEWALK AND CURB RAMP GRADES

ALL SIDEWALK AND CURB RAMP GRADES SHALL BE STAKED ACCORDING TO STANDARD PLAN R-28 SERIES AND AS SHOWN ON THE PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL SIDEWALK TO ADA STANDARDS AND TO ENSURE ADA STANDARDS ARE MET AFTER SIDEWALK PLACEMENT. ANY SIDEWALK OR RAMPS NOT IN COMPLIANCE SHALL BE REPLACED AT THE

### **CLEARING**

CLEAR AND REMOVE ALL BRUSH, DEBRIS, STUMPS, AND TREES LESS THAN SIX (6) INCHES DBH AS SHOWN WITHIN THE GRADING LIMITS OR AS DIRECTED BY THE ENGINEER. PAID FOR AS SHARED USE PATH, GRADING, MODIFIED TO STATION 132+00. STATION 132+00 TO 143+36 PAID FOR AS

### SITE ACCESS

ACCESS TO THE PROPOSED PATHWAY ON THE BANDEMER NATURE AREA PENINSULA BETWEEN STATIONS 108+44 AND 131+95 IS LIMITED BY THE HURON RIVER AND THE EXISTING MOOT RAIL RIGHT OF WAY. NO OVERLAND ROUTE IS AVAILABLE TO ACCESS THIS PORTION OF THE PROJECT

THE CONTRACTOR SHALL ONLY BE PERMITTED TO ACCESS THE PROPOSED PATHWAY BETWEEN STATIONS 108+44 TO 131+95 WITH EQUIPMENT OVER THE EXISTING NORTHERN PEDESTRIAN BRIDGE BETWEEN STATIONS 106+52 AND 108+44. THE CONTRACTOR SHALL NOT EXCEED THE POSTED 6,000LB LOAD LIMIT ON THE BRIDGE. ALL NECESSARY ACCOMMODATIONS NECESSARY TO COMPLY WITH THE LOAD AND ACCESS LIMITATIONS SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE

### SOIL BORINGS

THE SOIL BORING ON THE CONSTRUCTION SHEETS REPRESENT POINT INFORMATION PRESENTATION OF THIS INFORMATION IN NO WAY INFERS THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

### PERMANENT TRAFFIC SIGNS

THE CONTRACTOR SHALL PROVIDE THE CITY OF ANN ARBOR WITH A MINIMUM 72 HOURS OF ADVANCE NOTICE PRIOR TO INSTALLING ANY PERMANENT TRAFFIC SIGNS. ALL SIGN POSTS SHALL HAVE A MINIMUM DEPTH OF 42 INCHES BELOW THE SURFACE. WCRC MUST APPROVE THE PLACEMENT

ALL SIGNS SHALL BE INSTALLED, REMOVED AND/OR SALVAGED ACCORDING TO THE CURRENT EDITION. OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE CURRENT EDITION OF MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL SIGNS ON THE PLANS OR IN THE LOG THAT DO NOT HAVE A RECOMMENDATION ARE TO BE

### EXISTING SIGN RELOCATION

ANY PERMANENT SIGNS REQUIRING RELOCATION DUE TO CONTRACTOR OPERATIONS SHALL BE SALVAGED AND RESET BY THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE ENGINEER. SIGNS AND POSTS DAMAGED DURING THE REMOVAL AND STORAGE OPERATIONS SHALL BE REPLACED WITH NEW SIGNS AND POSTS. THE COST OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR

### SIGN INSTALLATION

WHEN ATTACHING SIGNS TO SUPPORTS, TIGHTEN THE NUT, NOT THE BOLT HEAD.

NYLON WASHERS SHALL BE PLACED BETWEEN THE STEEL WASHER AND THE SIGN FACE SHEETING. THE NYLON WASHERS ARE TO BE CONSIDERED PART OF THE ATTACHING DEVICES AND HARDWARE. NYLON WASHERS SHALL HAVE A 3/8 INCH INNER DIAMETER, A 7/8 INCH OUTER DIAMETER AND A

### UNDERGROUND CONFLICTS

THE CONTRACTOR SHALL EXPOSE EXISTING STORM SEWERS, SANITARY SEWERS, WATER MAIN AND PRIVATE UTILITIES TO VERIFY EXISTING ELEVATIONS BEFORE COMMENCING WORK ON A PROPOSED STORM SEWER OR WATER MAIN THAT IS TO CROSS OTHER UTILITIES. THIS WORK WILL NOT BE PAID AS EXPLORATORY EXCAVATION UNLESS PREVIOUSLY AUTHORIZED BY THE ENGINEER.

### CONCRETE JOINTS

TOOLED JOINTS ARE NOT ALLOWED. SAWCLIT CONTRACTION JOINTS IN ALL CONCRETE PAVEMENT IN ACCORDANCE WITH THE STANDARD PLAN SERIES R-39. FOR IRREGULAR CONCRETE PAVEMENT SHAPES, REVIEW THE JOINTING PLAN WITH THE ENGINEER PRIOR TO SAWCUTTING. PROVIDE ISOLATION JOINTS IN ACCORDANCE WITH THE STANDARD PLAN SERIES R-37.

### CLEANING PAVEMENT

REFORE PLACING ANY HMA MIXTURE THE SURFACE OF THE EXISTING PAVEMENT INCLUDING ALL CURBS, CRACKS, JOINTS AND THE SURFACE OF THE NEW BASE AND LEVELING COURSES, SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS AND DIRT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR OTHER

DRAINAGE STRUCTURES. MANHOLES, CATCH BASINS, SANITARY SEWER STRUCTURES, GATE WELLS & VALVE BOXES WHICH MAY NEED TO BE ADJUSTED OR RECONSTRUCTED SHALL ONLY BE PAID FOR ONCE AS EITHER ADJUST, OR ADDL. DEPTH OF ADJUST, AT THE CORRESPONDING CONTRACT UNIT PRICE, REGARDLESS OF HOW MANY TIMES THE INDIVIDUAL STRUCTURE IS ADJUSTED. "POINTING UP"
OF STRUCTURES AS INDICATED ON THE PLANS SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE
CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR AFFECTED DRAINAGE

### CASTINGS FOR INLETS AND CATCH BASINS

ALL MDOT CASTINGS EXCEPT TYPE B SHALL HAVE THE WORDS "DUMP NO WASTE, DRAINS TO WATERWAYS" PERMANENTLY CASTED TO THE COVER.

EXISTING STRUCTURES TO REMAIN SHALL RECEIVE NEW CASTINGS AS SHOWN IN THE PLANS.

### TREE REMOVALS

MISCELLANEOUS TREE REMOVAL QUANTITIES MAY BE USED ONLY AS DIRECTED BY THE ENGINEER. REMOVALS AND BRANCH TRIMMING SHALL ONLY OCCUR BETWEEN OCTOBER 1 AND MARCH 31. THE CONTRACTOR SHALL CONSULT A CERTIFIED ARBORIST IF REMOVALS ARE NECESSARY OUTSIDE THIS WINDOW. TREE SIZES ARE SHOWN ON THE PLAN SHEETS. SOME TREES ARE TAGGED IN THE FIELD THESE TAG NUMBERS ARE SHOWN ON THE PLAN SHEETS WHERE APPLICABLE.

A WALKTHROUGH SHALL BE SCHEDULED TO IDENTIFY FINAL TREE REMOVALS WITH THE ENGINEER AND OWNER PRIOR TO STARTING ANY TREE REMOVALS.

### TREE PLANTING

PLANT TREES IN ACCORDANCE TO MODT STANDARD PLAN R-100-H SERIES. WATER AND CULTIVATE TREES IN ACCORDANCE WITH SECTION 815 OF THE 2020 MDDT STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE LOCATION OF ALL TREES SHALL BE DETERMINED BY THE ENGINEER.

# MINOR TRAFFIC CONTROL

CONTRACTOR SHALL PROVIDE SIGNAGE AND ADA COMPLIANT BARRICADES TO CLOSE ALL ACCESS POINTS TO THE BARTON-BANDEWER (BORDER TO BORDER) TRAIL WITHIN THE PROJECT LIMITS. NO DETOUR SIGNAGE IS REQUIRED. CUSTOM NOTIFICATION SIGNAGE WITH BARRICADES WILL BE REQUIRED AT BARTON PARK, HURON RIVER DRIVE, BANDEMER PARK, AND AT ACCESS POINTS ALONG THE EXISTING RAILROAD CORRIDOR ALL TRAFFIC CONTROL ITEMS SHALL BE INCLLIDED AND PAID FOR FOR

### RESTORATION

THE FOLLOWING PAY ITEMS ARE INCLUDED IN THE CONTRACT:

Turf Establishment, Turf Grass, Performance Turf Establishment, Native Seed Mix, Mesic Tollgrass, Performance Turf Establishment, Native Seed Mix, Forested Wetland, Performance Turf Establishment, Native Seed Mix, Forested Wetland, Performance

RESTORE AREAS AS DIRECTED BY THE ENGINEER IN THE FIELD. THE FOLLOWING STATION RANGES PROVIDE A ROUGH ESTIMATION OF RESTORATION LIMITS. VERIFY WITH THE ENGINEER PRIOR TO THE START OF

TURF GRASS - STATION 100+00 TO 103+00 FORESTED WETLAND - STATION 103+00 TO 106+50 MESIC TALLGRASS - STATION 108+50 TO 121+00 WOODLAND EDGE - STATION 121+00 TO 132+00

SIDE SLOPES VARY THROUGHOUT THE PROJECT. ENSURE THAT THE PROPOSED MULCH BLANKET IS SUITABLE FOR THE GIVEN SIDE SLOPES. PROVIDE SHOP DRAWINGS FOR ALL PROPOSED RESTORATION MATERIALS.

THE OPEN SPACE IN BARTON PARK NEAR STATIONS 101+00 AND 103+00 CAN BE LITILIZED FOR STAGING AND STORAGE. CONTRACTOR SHALL COORDINATE STAGING AREA WITH OTHER CONTRACT
WORK AT THE BARTON PUMP STATION AND THE BARTON DAM. STAGING PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

### RAILROAD COORDINATION

STAGING AND STORAGE

ALL PROPOSED WORK WITHIN THIS CONTRACT IS OUTSIDE THE RAILROAD RIGHT OF WAY.

IF ANY WORK IS REQUIRED WITHIN AMTRAK/MDOT RIGHT OF WAY, THE CONTRACTOR SHALL COMPLY WITH AMTRAK ENGINEERING PRACTICE EP3014 "MAINTENANCE AND PROTECTION OF RAILROAD TRAFFIC DURING CONTRACTOR OPERATIONS" SECTIONS 01141A, 01142A, 01520A, AND 02261A

IF ANY TEMPORARY SHORING AND/OR SHEETING IS REQUIRED TO SUPPORT ANY PORTION OF THE RAILROAD TRACKS OR STRUCTURES, AMTRAK EP3014 SECTION 01140 MUST BE FOLLOWED, INCLUDING ALL SUBMISSION REQUIREMENTS FOR APPROVAL. PRIOR TO BEGINNING ANY CRANE/HOISTING OPERATIONS THE CONTRACTOR SHALL SLIBMIT A CRANE/HOISTING PLAN TO AMTRAK AND THE

THESE DOCUMENTS ARE AVAILABLE HERE: <a href="https://www.amtrak.com/third-party-resources">https://www.amtrak.com/third-party-resources</a>

ALL UNDERGROUND UTILITIES, CABLES, AND FACILITIES WITHIN THE AMTRAK/MDOT RAIL RIGHT OF WAY SHALL BE LOCATED AND PROTECTED PRIOR TO ANY GROUND DISTURBING ACTIVITIES. THESE ACTIVITIES SHALL NOT BE PERFORMED IN CLOSE PROXIMITY TO RAILROAD DUCT LINES UNLESS MONITORED BY AMTRAK COMMUNICATIONS AND SIGNAL (C&S) PERSONNEL AMTRAK MAINTAINS A BURIED FIBER OPTIC CABLE ON THE NORTH SIDE OF THE AWTRAK/MOOT RAIL RIGHT OF WAY.

AMTRAK IS NOT A MISS-DIG MEMBER. CONTACT AMTRAK DIRECTLY TO HAVE RAILROAD UTILITIES AND ASSETS LOCATED, SEE CONTACTS THIS SHEET

AMTRAK COMMUNICATIONS & SIGNALS (C&S) DEPARTMENT SUPPORT PERSONNEL MUST FIELD VERIFY THAT THERE IS NO SIGNAL EQUIPMENT IN THE WAY OF THE PROJECT THAT THAT SIGNAL PREVIEW IS

PROTECTIVE FENCING MUST BE INSTALLED AROUND AMTRAK'S WAYSIDE EQUIPMENT HOUSE. A PRE-CONSTRUCTION MEETING WITH AMTRAK IS REQUIRED TO DETERMINE THE TYPE AND EXTENT OF FENCING.

AMTRAK C&S DEPARTMENT SUPPORT PERSONNEL MUST MAINTAIN ACCESS ON THE RAILROAD RIGHT OF WAY AND HAVE EXISTING GATE ACCESS TO REMOTE LOCATIONS TO PERFORM MAINTENANCE.

AMTRAK VEHICULAR ACCESS AND EMERGENCY VEHICLE ACCESS TO THE RIGHT OF WAY MUST BE

### MISCELLANEOUS QUANTITIES

THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED OR SHOWN ON SUBSEQUENT PLAN SHEETS AND SHOULD BE USED ONLY AS DIRECTED BY THE ENGINEER.

### QUANTITIES THIS SHEET

200 Cvd

UNIT DESCRIPTION Audio-Visual Filming LSHM LSUM Certified Payroll Compliance and Reporting LSUM Mobilization, Max

Fα Tree, Rem. 19 inch to 36 inch

Tree, Rem. 37 inch or Larger Εa Tree, Rem, 6 inch to 18 inch 200 Cyd Subgrade Undercutting, Type I

Subgrade Undercutting, Type II 200 Subgrade Undercutting, Type N Erosion Control, Inlet Protection, Fabric Drop

200 Erosion Control, Silt Fence

Erosion Control, Turbidity Curtain, Deep

Geotextile, Separator 200 Syd Syd 200 Geotextile, Separator, Non-Wover Road Grade Biaxial Geogrid

LSUM Minor Traf Devices Check Dam. Cobblestone

Riprap, Cobblestone LÉHM Watering and Cultivating, First Season, Min

Watering and Cultivating, 2nd Season. Min LSUM Cercis canadensis, 2 inch clump, 3 Stem

Fα Cornus sericea, #5 cont.

Ea Quercus bicolor, 2 inch Viburnum lentago, #5 cont ARCHITECTS ENGINEERS PLANNERS

34000 Plymouth Road

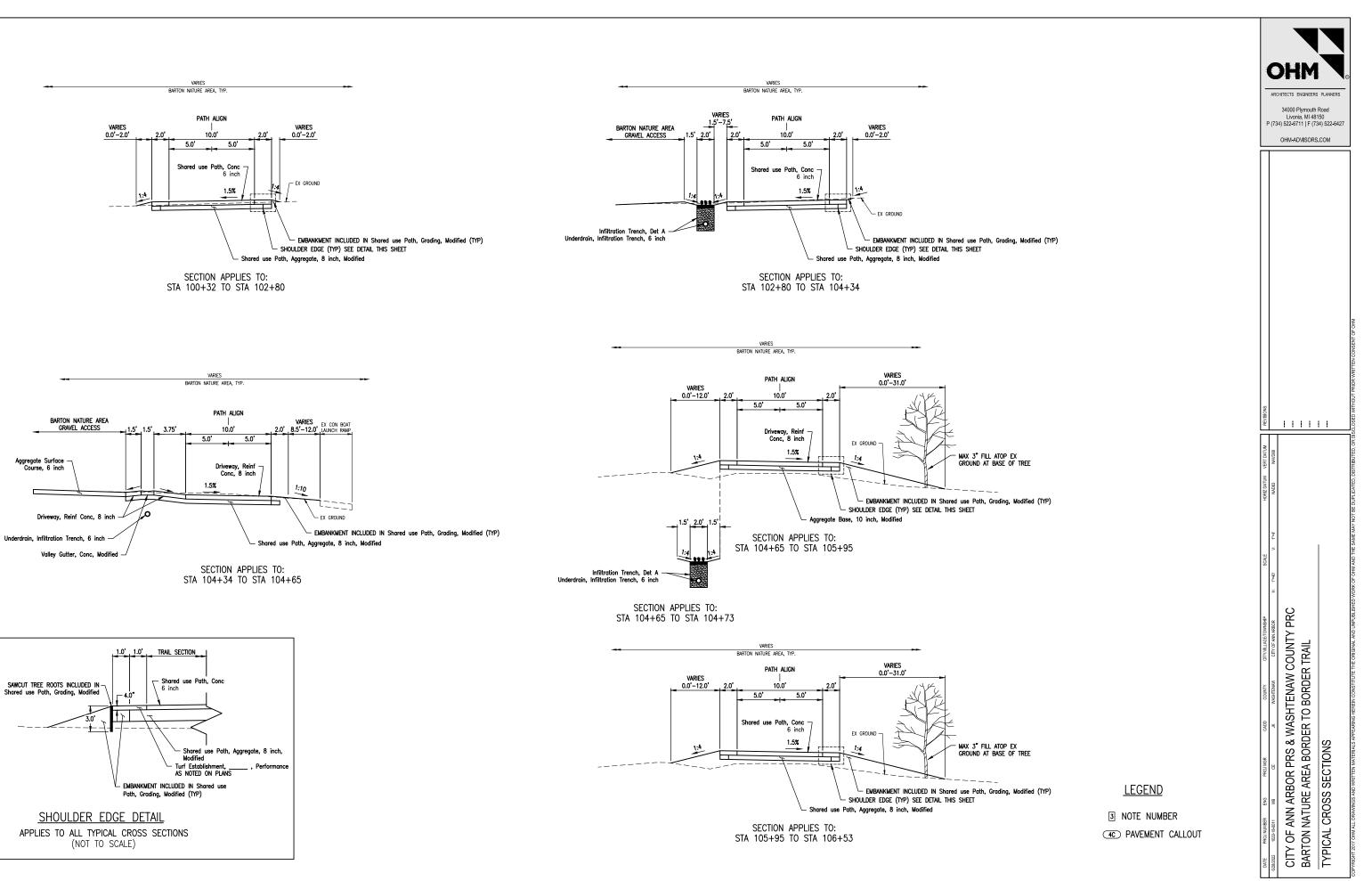
P (734) 522-6711 | F (734) 522-642

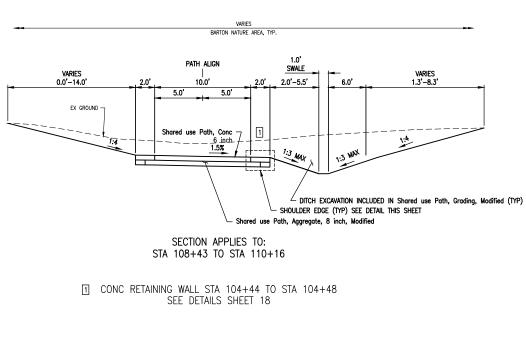
11111

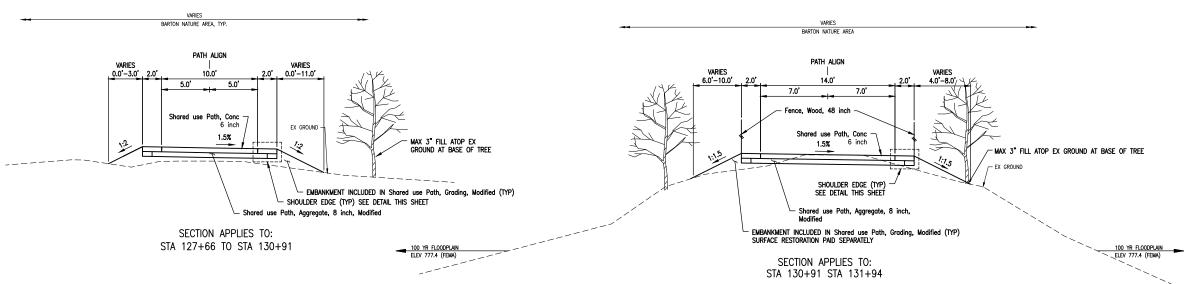
PRC COUNTY PRS & WASHTENAW C A BORDER TO BORDER <sup>.</sup> : ANN ARBOR PI NATURE AREA E

GENERAL

CITY OF A BARTON N







VARIES
BARTON NATURE AREA, TYP.

VARIES 0.0'-5.0' PATH ALIGN

10.0

1.5%

SECTION APPLIES TO: STA 110+16 TO STA 127+66 VARIES 0.0'-7.0'

> MAX 3" FILL ATOP EX GROUND AT BASE OF TREE

EMBANKMENT INCLUDED IN Shared use Path, Grading, Modified (TYP)

SHOULDER EDGE (TYP) SEE DETAIL THIS SHEET

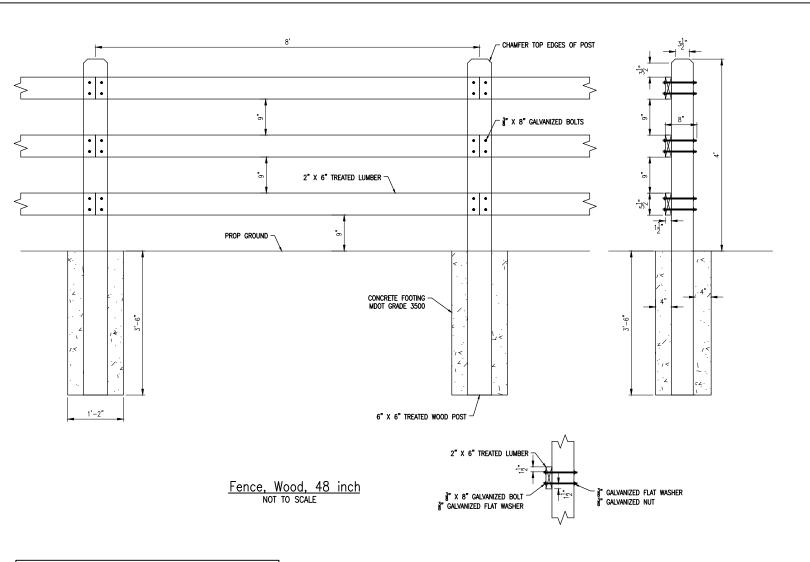


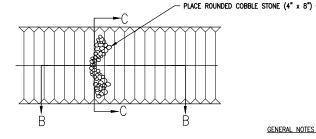
11111

34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427

<u>LEGEND</u>

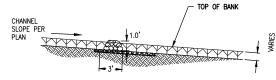
3 NOTE NUMBER4C PAVEMENT CALLOUT





# CHECK DAM, COBBLESTONE

NOT TO SCALE



GENERAL NOTES FOR CONSTRUCTION

COBBLESTONE CHECK DAMS SHOWN ON CONSTRUCTION SHEETS ARE PERMANENT.

INISTALL ADDITIONAL TEMPORARY CHECK DAMS AS DIRECTED BY ENGINEER TO MANAGE STORMWATER DURING CONSTRUCTION.

BASE OF SEDIMENT TRAP SHALL BE 6" BELOW PLAN GRADE.

SEDIMENT TRAP SHALL BE CONSTRUCTED WITH THE LARGEST BOULDERS BEING PLACED AT THE BASE AND EDGE OF THE TRAP. SMALLER BOULDERS SHALL BE USED NEAR THE CREST OF THE TRAP.

STONES SHALL BE ASSEMBLED IN A MANNER THAT CREATES A LOW POINT AT THE CENTER OF THE TRAP TO DIRECT FLOW TO THE CENTER OF CHANNEL.

UPON CONNECTION OF FLOW FROM EXISTING CHANNEL TO PROPOSED CHANNEL, TEMPORARY SEDIMENT TRAPS SHALL BE USED TO CONSTRUCT THE PROPOSED CHANNEL BOTTOM.

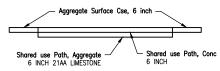
SECTION C-C

# SECTION B-B

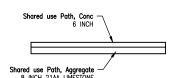




## REINFORCED CONCRETE PAVEMENT NOT TO SCALE



### CONCRETE ADA PARKING NOT TO SCALE



### CONCRETE SHARED USE PATH NOT TO SCALE

A L	Dr Structure, 48 inch dia  Dr Structure, 48 inch dia  Dr Structure Cover, Type E (BEEHIVE)  Culv, CI E, Conc, 12 inch
NON-WOVEN GEOTEXTILE FARBIC INCLUDED IN Infiltration Trench	INFILTRATION TRENCH NOT TO SCALE

			\	EXISTING EARTH
				Underdrain, Infiltration Trench, 6 inch (PAID FOR SEPARATEL
<u>Infiltration</u>	Trench,	Det	_A	WHERE SHOWN ON PLANS)

NOT TO SCALE

- MDOT 6A AGGREGATE

SECTION A-A NOT TO SCALE

TELY) - Dr Structure, Structure Cover, Type E Underdrain, Infiltration Trench, 6 inch Sewer, Cl \_, \_ inch, Tr Det \_

STORM END SECTION SCHEDULE END SECTION DETAILS STATION OFFSET END SECTION NAME 12" SE INV = 775.40 104+21.40 -9.45' L Dr Structure, 48 inch dia 12" NW INV = 775.00 | 104+43.07 | 24.43' R Culv End Section, Conc, 12 inch 104+79.20 -9.66' 12" S INV = 776.31 Culv End Section, Conc, 12 inch ES3 Culv End Section, Conc, 12 inch 12" N INV = 776.00 104+75.35 20.63' R 105+24.17 | 20.31' R 6" N INV = 774.82 Underdrain, Outlet Ending, 6 inch ES5 Culv End Section, Conc, 12 inch 105+70.61 -22.54 12" S INV = 777.00 ES6 Culv End Section, Conc, 12 inch 12" N INV = 776.00 105+75.58 20.09' R 12" S INV = 779.14 108+41.11 10.56' R Culv End Section, Conc, 12 inch ES8 Culv End Section, Conc, 12 inch 12" N INV = 779.60 108+52.17 | 17.18' R ES9 Culv End Section, Conc, 12 inch 12" SE INV = 783.88 109+52.95 | 14.49' R 12" NW INV = 784.90 | 109+72.62 | 12.88' R Culv End Section, Conc, 12 inch ES11 Culv End Section, Conc, 12 inch 12" SW INV = 788.03 125+94.89 -12.74 ES12 Culv End Section, Conc, 12 inch 12" NE INV = 787.80 | 125+97.83 | 12.66' R

SITE DETAILS

ARCHITECTS ENGINEERS PLANNERS 34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427 OHM-ADVISORS.COM

111111 CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL

300   300	Tag #	Species Juglans nigra	Remark	DBH in Inche	
301   Populus delicides   11   Cood   302   Populus delicides   29   Cood   303   Anus glutinosa   8   Cood   304   Anus glutinosa   17   Cood   305   Ulmus purilia   17   Cood   306   Ulmus purilia   20   Cood   307   Ulmus purilia   20   Cood   308   Acer raibrum   5   Good   309   Jugina nigra   22   Good   309   Jugina nigra   22   Good   309   Jugina nigra   313   Cood   3011   Criegus spp.   13   Good   3112   Picce pungers   35   Cood   313   Pinus nigra   15   Cood   314   Pinus nigra   15   Cood   315   Pinus nigra   15   Cood   316   Picce pungers   21   Cood   317   Vercus macrocorpo   KEEP   45   Cood   318   Cood   Cood   319   Acer plontoides   10   Cood   320   Acer plontoides   10   Cood   320   Acer plontoides   10   Cood   321   Pinus sercina   17   Cood   322   Trainus persolina   17   Cood   323   Pinus sercina   17   Cood   324   Acer soccherinum   8   Cood   325   Pinus sercina   17   Cood   327   Tilla americana   17   Cood   328   Pinus sercina   17   Cood   329   Acer soccherinum   8   Cood   320   Acer soccherinum   7   Cood   330   Tilla americana   17   Cood   331   Acer soccherinum   7   Cood   332   Pinus sercina   17   Cood   333   Tilla americana   17   Cood   334   Acer soccherinum   7   Cood   335   Tilla americana   17   Cood   336   Quercus raibra   Cood   Cood   337   Acer soccherinum   7   Cood   338   Tilla americana   17   Cood   339   Tilla americana   17   Cood   340   Acer soccherinum   7   Cood   350   Quercus raibra   17   Cood   351   Tilla americana   17   Cood   352   Prunus sercina   17   Cood   353   Tilla americana   17   Cood   354   Acer soccherinum   7   Cood   355   Quercus raibra   17   Cood   356   Quercus raibra   17   Cood   357   Quercus raibra   17   Cood   358   Quercus raibra   17   Cood   359   Quercus raibra   17   Cood   360   Acer soccherinum   7   Cood   370   Tilla americana   17   Cood   371   Tilla americana   17   Cood   372   Tilla americana   17   Cood   373   Tilla americana   17   Cood   374   Acer soccherinum   17   Cood   375   Quer	37 100	Sassafras albidum		9	Good
303   Alnus glutinosa   8   Ceod   304   Alnus glutinosa   13   Ceod   305   Ulmus purnila   17   Ceod   306   Ulmus purnila   20   Ceod   307   Ulmus purnila   20   Ceod   308   Aer rubrum   5   Ceod   309   Jugions nigra   22   Ceod   309   Jugions nigra   22   Ceod   311   Aer regundo   13   Ceod   311   Crotegus spp.   10   Ceod   311   Poet   Ceod   Ceod   311   Poet   Ceod   Ceod   311   Poet   Ceod   Ceod   311   Poet   Ceod   Ceod   312   Piece pungers   35   Geod   313   DEAD   0   Geod   314   Piece pungers   15   Geod   315   Piece pungers   14   Geod   316   Piece pungers   14   Geod   317   Piece pungers   14   Geod   318   Aer plontidies   17   Ceod   319   Aer plontidies   17   Ceod   319   Aer plontidies   10   Ceod   320   Facurs personal   EEEP   50   Geod   321   Piece pungers   XEEP   50   Geod   322   Faruus serolina   Ceod   Ceod   323   Punus serolina   Piece pungers   17   Ceod   324   Aer secchorinum   8   Geod   325   Punus serolina   17   Geod   326   Punus serolina   17   Geod   327   Tilio omericana   19   Geod   328   Punus serolina   11   Geod   329   Aer secchorinum   7   Geod   320   Aer secchorinum   7   Geod   331   Tilio omericana   23   Geod   332   Tilio omericana   23   Geod   333   Tilio omericana   23   Geod   334   Aer secchorinum   7   Geod   335   Tilio omericana   23   Geod   336   Tilio omericana   23   Geod   337   Tilio omericana   25   Geod   338   Tilio omericana   27   Geod   339   Tilio omericana   27   Geod   330   Tilio omericana   27   Geod   331   Tilio omericana   27   Geod   332   Tilio omericana   27   Geod   333   Tilio omericana   27   Geod   334   Aer secchorinum   7   Geod   335   Tilio omericana   27   Geod   336   Tilio omericana   27   Geod   337   Tilio omericana   28   Geod   338   Tilio omericana   29   Geod   339   Tilio omericana   29   Geod   340   Crotegus spp.   7   Geod   341   Cercer purps   7   Geod   342   Crotegus spp.   7   Geod   343   Punus serolina   7   Geod   344   Punus serolina   7   Geod   345   Punus serolina   7   Geod		Populus deltoides			
305   Ulmus purmition   17   Good   305   Ulmus purmition   17   Good   306   Ulmus purmition   17   Good   307   Ulmus purmition   17   Good   307   Ulmus purmition   20   Good   308   Acter rubrum   5   Good   309   Julpins nigror   22   Good   309   Julpins nigror   22   Good   311   Critegus app.   10   Good   311   Critegus app.   10   Good   311   Critegus app.   10   Good   311   Piesea pumpers   35   Good   311   Piesea pumpers   35   Good   312   Piesea pumpers   35   Good   314   Pimus migra   15   Good   315   Pimus migra   15   Good   316   Pimus migra   15   Good   317   Pimus migra   15   Good   318   Pimus migra   15   Pimus migra   15					
17   Cood					
1972   Ulmus pumila   20   Ceed		Ulmus americana			
Solit					
309					
11					
STILL   Piece pungers   3.5   Cood				13	
313   DEA    0   0   0   0   0   0   0   0   0					
15					
1516   Piceo pungens   21   Coord		Pinus nigra			
1318   Ouercus mocrocorpo   KEEP   45   Good     318   Acer plantoides   12   Good     320   Acer plantoides   10   Good     321   Toxinus pennsylvanica   Dead   0   Good     322   Traxinus pennsylvanica   Dead   0   Good     323   Prunus serolina   7   Good     324   Acer saccharium   8   Good     325   Prunus serolina   11   Good     326   Prunus serolina   11   Good     327   Tillia americana   19   Good     328   Prunus serolina   11   Good     329   Acer saccharium   7   Good     320   Acer saccharium   7   Good     321   Tillia americana   17   Good     322   Acer saccharium   7   Good     333   Tilia americana   23   Good     333   Tilia americana   27   Good     333   Tilia americana   27   Good     334   Julipurus virginiana   20   Good     335   Tilia americana   12   Good     336   Quercus rubra   16   Good     337   DEAD   0   Good     338   Quercus rubra   16   Good     339   Tilia americana   14   Good     340   Tilia americana   12   Good     341   Quercus rubra   16   Good     340   Tilia americana   17   Good     341   Quercus rubra   16   Good     342   Criefegus spp.   7   Good     343   Prunus serolina   25   Good     344   Quercus rubra   12   Good     345   Prunus serolina   25   Good     346   Criefegus spp.   7   Good     347   Rhamus cathartica   6   Good     348   Criefegus spp.   7   Good     349   Rhamus cathartica   6   Good     350   Prunus serolina   7   Good     351   Quercus rubra   17   Good     352   Rhamus cathartica   17   Good     353   Rhamus cathartica   17   Good     354   Quercus rubra   17   Good     355   Rhamus cathartica   17   Good     356   Quercus rubra   17   Good     357   Quercus rubra   17   Good     358   Quercus rubra   17   Good     359   Quercus rubra   17   Good     360   Quercus rubra   17   Good     370   Prunus serolina   18   Good     371   Quercus rubra   19   Good     372   Prunus serolina   10   Good     373   Prunus serolina   10   Good     374   Quercus rubra   10   Good     375   Quercus rubra   10   Good     376   Quercus rubra   10   Good					
Signature   Sign			VEED		
Toxinus pennsylvonica   Dead   Dead					
Training   Training					
323			D1		
1924   Acer saccharinum   8   Good		' '	Dead		
326					
1927   Tilia americana   19   Good					
328					
329					
331   Tilia americana   23   Good	329	Acer saccharinum		7	Good
332   Tilia americana   27   Good					
333   Juniperus virginiana   20   Good					
335   Tilia mericana   14   Good		Tilia americana			
336					
337   DEAD   0   Good					
338					
340   Tilia americana   25   Good   341   Quercus rubra   9   Good   342   Crotegus spp.   7   7   Good   343   Prunus serotina   21   Good   344   Prunus serotina   21   Good   345   Rhamnus cathartica   6   Good   346   Crotegus spp.   15   Good   347   Rhamnus cathartica   18   Good   348   Crotegus spp.   15   Good   348   Crotegus spp.   15   Good   349   Crotegus spp.   Ref. 409   10   Good   350   Prunus serotina   8   Good   350   Prunus serotina   8   Good   351   Quercus rubra   17   Good   352   Crotegus spp.   13   Good   352   Crotegus spp.   13   Good   353   Rhamnus cathartica   110   Good   354   Quercus rubra   8   Good   355   Quercus rubra   12   Good   355   Quercus rubra   12   Good   356   Quercus rubra   12   Good   357   Quercus rubra   12   Good   358   Quercus rubra   17   Good   359   Quercus rubra   17   Good   359   Quercus rubra   17   Good   359   Quercus rubra   17   Good   360   Juglans nigra   11   Good   361   Carya ovata   23   Good   362   Carya ovata   23   Good   363   Quercus rubra   15   Good   364   Carya ovata   Carya ovata   Good   365   Quercus rubra   9   Good   366   Carya ovata   Good   367   Quercus rubra   9   Good   368   Carya ovata   16   Good   368   Carya ovata   17   Good   369   Quercus rubra   9   Good   360   Grotegus spp.   16   Good   370   Tilia americana   14   Good   371   Juglans nigra   16   Good   372   Prunus serotina   17   Good   373   Prunus serotina   18   Good   374   Quercus duba   17   Good   375   Quercus duba   17   Good   376   Quercus duba   17   Good   377   Quercus duba   17   Good   378   Prunus serotina   POOR   7   Good   379   Prunus serotina   POOR   7   Good   371   Juglans nigra   18   Good   373   Prunus serotina   19   Good   374   Quercus duba   17   Good   375   Quercus duba   17   Good   377   Quercus duba   18   Good   378   Prunus serotina   19   Good   379   Prunus serotina	338				Good
341         Quercus rubra         9         Good           342         Crafegus spp.         7         Good           343         Prunus serotina         21         Good           344         Prunus serotina         7         Good           345         Rhamnus cathortica         6         Good           346         Crafegus spp.         15         Good           347         Rhamnus cathortica         18         Good           348         Crafegus spp.         Ref. 409         10         Good           351         Quercus rubra         17         Good           352         Crategus spp.         13         Good           353         Rhamnus cathortica         10         Good           353         Rhamnus cathortica         10         Good           355         Quercus rubra         8         Good           355         Quercus rubra         23         Good           356         Quercus rubra         23         Good           357         Quercus rubra         30         Good           358         Quercus rubra         15         Good           360         Juglans nigra         11 <td></td> <td></td> <td></td> <td></td> <td></td>					
342         Crategus spp.         7         Good           343         Prunus serotina         21         Good           344         Prunus serotina         7         Good           345         Rhamnus cothartica         6         Good           346         Crategus spp.         15         Good           347         Rhamnus cathartica         18         Good           348         Crategus spp.         10         Good           350         Prunus serotina         8         Good           351         Quercus rubra         17         Good           352         Crategus spp.         13         Good           353         Rhamnus cathartica         10         Good           354         Quercus rubra         8         Good           355         Quercus rubra         12         Good           356         Quercus rubra         17         Good           357         Quercus rubra         15         Good           360         Quercus rubra         15         Good           361         Carya ovata         23         Good           362         Carya ovata         6         Good					
344   Prunus serotina   7					
345   Rhamnus cathartica   6   Good					
346					
347   Rhomnus cathartica   18   Good		Crategus spp.			
350   Prunus serotina   8   Cood   351   Quercus rubra   17   Good   352   Crategus spp.   13   Good   353   Rhamnus cathartica   10   Cood   354   Quercus rubra   8   Good   355   Quercus rubra   12   Good   355   Quercus rubra   23   Cood   356   Quercus rubra   23   Cood   357   Quercus rubra   23   Cood   357   Quercus rubra   17   Good   358   Quercus rubra   17   Good   359   Quercus rubra   15   Good   359   Quercus rubra   15   Good   359   Quercus rubra   15   Good   360   Juglans nigra   11   Good   361   Carya ovata   23   Good   362   Carya ovata   6   Good   362   Carya ovata   6   Good   363   Quercus rubra   9   Good   364   Carya ovata   KEEP   15   Good   365   Prunus serotina   333   Good   366   Crategus spp.   12   Good   367   Quercus rubra   11   Good   368   Carya ovata   15   POOR   369   Juglans nigra   16   Good   368   Carya ovata   17   Good   369   Juglans nigra   18   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   373   Prunus serotina   14   Good   374   Quercus alba   17   Good   375   Quercus alba   17   Good   376   Quercus alba   17   Good   377   Quercus alba   18   Good   378   Prunus serotina   19   Quercus alba   11   Good   378   Prunus serotina   17   Good   379   Prunus serotina   18   Good   379   Prunus serotina   19   Good   380   Rhamnus cathartica   7   Good   381   Rhamnus cathartica   7   Good   382   Prunus serotina   18   Good   383   Prunus serotina   18   Good   384   Prunus serotina   18   Good   385   Rhamnus cathartica   7   Good   387   Prunus serotina   18   Good   389   Rhamnus cathartica   18   Good   390   Rhamnus cathartica   18   Good   391   Acer negundo   9   Good   392   Good   393   Rhamnus cathartica   18   Good   394   Prunus cathartica   18   Good   395   Rhamnus cathartica   18   Good   396   Pyrus spp.   7   Good   397   Ulmus pumil	347	Rhamnus cathartica		18	Good
351   Quercus rubra   17   Good   352   Crategus spp.   13   Good   354   Quercus rubra   10   Good   354   Quercus rubra   12   Good   355   Quercus rubra   12   Good   355   Quercus rubra   12   Good   356   Quercus rubra   17   Good   357   Quercus rubra   17   Good   357   Quercus rubra   30   Good   358   Quercus rubra   30   Good   358   Quercus rubra   350   Good   359   Quercus rubra   350   Good   360   Juglans nigra   111   Good   361   Carya ovata   223   Good   361   Carya ovata   223   Good   362   Carya ovata   6   Good   363   Quercus rubra   9   Good   364   Carya ovata   Good   363   Quercus rubra   9   Good   364   Carya ovata   KEEP   15   Good   366   Carya ovata   KEEP   15   Good   366   Carya ovata   KEEP   15   Good   366   Carya ovata   KEEP   15   Good   367   Quercus rubra   11   Good   368   Carya ovata   15   POOR   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   6   Good   372   Prunus serotina   13   Good   373   Prunus serotina   13   Good   374   Quercus alba   11   Good   375   Quercus alba   11   Good   376   Quercus alba   11   Good   377   Quercus alba   11   Good   378   Prunus serotina   POOR   7   Good   379   Prunus serotina   POOR   7   Good   379   Prunus serotina   10   Good   379   Prunus serotina   10   Good   381   Rhamnus cathartica   7   Good   383   Prunus serotina   10   Good   384   Prunus serotina   10   Good   385   Tilia americana   18   Good   389   Celtis occidentalis   11   Good   389   Celtis occidentalis   11   Good   389   Celtis occidentalis   14   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   7   Good   394   Acer negundo   9   Good   395   Rhamnus cathartica   15   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   55   Good   398   Alnus glutinosa   55   Good   398   Alnus glutinosa   55   Good   399   Alnus glutinosa   55   Good   390   Cartegus rubra   55   Good			Ref. 409		
352   Crategus spp.   13   Cood					
354		Crategus spp.			
355   Quercus rubra   12   Good					
356   Quercus rubra   23   Good   357   Quercus rubra   17   Good   358   Queruc rubra   15   Good   359   Quercus rubra   15   Good   360   Juglans nigra   11   Good   361   Carya ovata   23   Good   362   Carya ovata   6   Good   363   Quercus rubra   9   Good   364   Carya ovata   9   Good   365   Prunus serotina   33   Good   366   Crategus spp.   12   Good   367   Quercus rubra   11   Good   368   Carya ovata   11   Good   369   Juglans nigra   12   Good   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   POOR   7   Good   373   Prunus serotina   POOR   7   Good   374   Quercus alba   12   Good   375   Quercus alba   12   Good   376   Quercus alba   12   Good   377   Quercus alba   17   Good   378   Prunus serotina   POOR   7   Good   379   Prunus serotina   10   Good   370   Tilia americana   11   Good   371   Quercus alba   12   Good   372   Prunus serotina   POOR   7   Good   373   Prunus serotina   POOR   7   Good   374   Quercus alba   12   Good   375   Quercus alba   17   Good   376   Quercus alba   17   Good   377   Punus serotina   18   Good   380   Rhamnus cathartica   17   Good   381   Rhamnus cathartica   17   Good   382   Tilia americana   18   Good   383   Prunus serotina   19   Good   384   Prunus serotina   19   Good   385   Tilia americana   18   Good   386   Celtis occidentalis   11   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   390   Rhamnus cathartica   7   Good   391   Sassafras albidum   15   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   18   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   18   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   15   Good   399   Pyrus spp.   7   Good   390   Pyrus spp.   7   Good					
357					
359   Quercus rubra   15   Good   360   Juglans nigra   11   Good   361   Carya ovata   23   Good   362   Carya ovata   6   Good   363   Quercus rubra   9   Good   364   Carya ovata   8   EEP   15   Good   365   Prunus serotina   33   Good   366   Crategus spp.   12   Good   367   Quercus rubra   11   Good   368   Carya ovata   11   Good   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   373   Prunus serotina   10   Food   374   Quercus alba   11   Good   375   Quercus alba   12   Good   376   Quercus alba   12   Good   377   Quercus alba   12   Good   378   Prunus serotina   POOR   7   Good   379   Prunus serotina   13   Good   370   Good   11   Good   371   Good   11   Good   372   Prunus serotina   POOR   7   Good   373   Prunus serotina   10   Good   374   Quercus alba   12   Good   375   Quercus alba   12   Good   376   Quercus alba   13   Good   377   Quercus alba   17   Good   378   Prunus serotina   32   Good   379   Prunus serotina   10   Good   380   Rhamnus cathartica   17   Good   381   Rhamnus cathartica   17   Good   382   Tilia americana   15   Good   383   Tilia americana   16   Good   384   Prunus serotina   10   Good   385   Tilia americana   18   Good   386   Celtis occidentalis   14   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   18   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   8   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   15   Good   398   Alnus glutinosa   15   Good   398   Alnus glutinosa   15   Good   399   Pood   Sood   390   Rhamnus cathartica   8   Good   390   Pyrus spp.   7   Good   390   Pyrus spp.   7   Go	357	Quercus rubra		17	Good
360   Juglans nigra   11   Cood   361   Carya ovata   23   Good   362   Carya ovata   6   Good   363   Quercus rubra   9   Good   364   Carya ovata   KEEP   15   Good   364   Carya ovata   KEEP   15   Good   365   Prunus serotina   33   Good   366   Crategus spp.   12   Good   367   Quercus rubra   11   Good   368   Carya ovata   15   PORR   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   372   Prunus serotina   PORR   7   Good   374   Quercus alba   11   Good   375   Quercus alba   11   Good   376   Quercus alba   11   Good   377   Quercus alba   11   Good   377   Quercus alba   12   Good   378   Prunus serotina   32   Good   379   Prunus serotina   32   Good   380   Rhamnus cathartica   17   Good   381   Rhamnus cathartica   7   Good   383   Prunus serotina   10   Good   385   Tilia americana   15   Good   386   Celtis occidentalis   11   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sossafras albidum   15   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   8   Good   396   Pyrus spp.   7   Good   398   Alnus glutinosa   15   Good   398   Alnus glutinosa   1		4			
361					
363   Quercus rubra   9   Good   364   Carya ovata   KEEP   15   Good   365   Prunus serotina   33   Good   366   Crategus spp.   12   Good   367   Quercus rubra   11   Good   368   Carya ovata   15   POOR   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   373   Prunus serotina   POOR   7   Good   374   Quercus alba   11   Good   375   Quercus alba   11   Good   376   Quercus alba   12   Good   377   Quercus alba   12   Good   378   Prunus serotina   Good   379   Prunus serotina   Good   370   Quercus alba   17   Good   371   Quercus alba   17   Good   372   Quercus alba   17   Good   373   Prunus serotina   Good   374   Quercus alba   Good   375   Quercus alba   Good   376   Quercus alba   REEP   Good   377   Quercus alba   KEEP   Good   378   Prunus serotina   32   Good   380   Rhamnus cathartica   17   Good   381   Rhamnus cathartica   17   Good   382   Rhamnus cathartica   7   Good   383   Prunus serotina   10   Good   384   Prunus serotina   10   Good   385   Tilia americana   15   Good   386   Celtis occidentalis   11   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   8   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   8   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   15   Good   399   Ood   390   Ood   Ood   390   Ood	361	Carya ovata		23	Good
364         Carya ovata         KEEP         15         Good           365         Prunus serotina         33         Good           366         Crategus spp.         12         Good           367         Quercus rubra         11         Good           368         Carya ovata         15         POPR           369         Juglans nigra         6         Good           370         Tilia americana         14         Good           371         Juglans nigra         14         Good           372         Prunus serotina         13         Good           373         Prunus serotina         10         Good           374         Quercus alba         11         Good           375         Quercus alba         12         Good           376         Quercus alba         KEEP         16         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           381         Rhamnus cathartica         7         Good           381         Rhamnus		,			
365   Prunus serotina   33   Good   366   Crategus spp.   12   Good   367   Quercus rubra   111   Good   368   Carya ovata   115   POOR   369   Juglans nigra   6   Good   370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   373   Prunus serotina   POOR   7   Good   374   Quercus alba   11   Good   375   Quercus alba   12   Good   376   Quercus alba   12   Good   377   Quercus alba   13   Good   378   Prunus serotina   REEP   16   Good   378   Prunus serotina   32   Good   379   Prunus serotina   32   Good   379   Prunus serotina   10   Good   380   Rhamnus cathartica   17   Good   381   Rhamnus cathartica   17   Good   382   Tilia americana   15   Good   383   Prunus serotina   10   Good   384   Prunus serotina   15   Good   385   Tilia americana   15   Good   386   Celtis occidentalis   11   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   389   Celtis occidentalis   14   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   18   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   8   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   15   Good			KEED		
366		Prunus serotina	NLLI		
368         Carya ovata         15         POOR           369         Juglans nigra         6         Good           370         Tilia americana         14         Good           371         Juglans nigra         14         Good           372         Prunus serotina         POOR         7         Good           373         Prunus serotina         POOR         7         Good           374         Quercus alba         11         Good           375         Quercus alba         12         Good           376         Quercus alba         KEEP         16         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         7         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         10         Good           384         Prunus serotina         15         Good           385         Tilia americana         15         Good <td< td=""><td>366</td><td>Crategus spp.</td><td></td><td>12</td><td>Good</td></td<>	366	Crategus spp.		12	Good
369   Juglans nigra   6   Good					
370   Tilia americana   14   Good   371   Juglans nigra   14   Good   372   Prunus serotina   13   Good   373   Prunus serotina   POOR   7   Good   374   Quercus alba   11   Good   375   Quercus alba   11   Good   375   Quercus alba   12   Good   376   Quercus alba   12   Good   377   Quercus alba   12   Good   377   Quercus alba   KEEP   16   Good   378   Prunus serotina   32   Good   379   Prunus serotina   32   Good   379   Prunus serotina   10   Good   380   Rhamnus cothartica   17   Good   381   Rhamnus cothartica   7   Good   381   Rhamnus cothartica   7   Good   383   Prunus serotina   7   Good   384   Prunus serotina   10   Good   385   Tilia americana   15   Good   386   Celtis occidentalis   11   Good   387   Juglans nigra   8   Good   388   Tilia americana   18   Good   389   Celtis occidentalis   14   Good   389   Celtis occidentalis   14   Good   390   Rhamnus cathartica   7   Good   391   Acer negundo   9   Good   392   Sassafras albidum   15   Good   393   Rhamnus cathartica   18   Good   394   Quercus rubra   6   Good   395   Rhamnus cathartica   8   Good   396   Pyrus spp.   7   Good   397   Ulmus pumila   28   Good   398   Alnus glutinosa   15   Good   398   Alnus glutinosa   15					
372         Prunus serotina         13         Good           373         Prunus serotina         POOR         7         Good           374         Quercus alba         11         Good           375         Quercus alba         12         Good           376         Quercus alba         KEEP         16         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         7         Good           381         Rhamnus cathartica         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         11         Good           390         Rhamnus cathartica         7         Good           391<	370	Tilia americana		14	Good
373         Prunus serotina         POOR         7         Good           374         Quercus alba         11         Good           375         Quercus alba         12         Good           376         Quercus alba         13         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         7         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391					
374         Quercus alba         11         Good           375         Quercus alba         12         Good           376         Quercus alba         13         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         7         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum			POOR		
375         Quercus alba         12         Good           376         Quercus alba         13         Good           377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         17         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica		Quercus alba	roun		
377         Quercus alba         KEEP         16         Good           378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         17         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         10         Good           384         Prunus serotina         15         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         6         Good           395         Rhamnus cathartica         8         Good           396         <		Quercus alba		12	Good
378         Prunus serotina         32         Good           379         Prunus serotina         10         Good           380         Rhamnus cathartica         17         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         10         Good           384         Prunus serotina         15         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         6         Good           395         Rhamus cathartica         8         Good           396         Pyrus spp.			NEED		
379         Prunus serotina         10         Good           380         Rhamnus cathartica         17         Good           381         Rhamnus cathartica         7         Good           383         Prunus serotina         10         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           398         Alnus pumila         28			KEEP		
381         Rhamnus cathartica         7         Good           383         Prunus serotina         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           399         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           398         Alnus glutinosa         15         Good	379	Prunus serotina		10	Good
383         Prunus serotina         7         Good           384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albium         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
384         Prunus serotina         10         Good           385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sossafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
385         Tilia americana         15         Good           386         Celtis occidentalis         11         Good           387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
387         Juglans nigra         8         Good           388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good	385	Tilia americana		15	Good
388         Tilia americana         18         Good           389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
389         Celtis occidentalis         14         Good           390         Rhamnus cathartica         7         Good           391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
391         Acer negundo         9         Good           392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good	389	Celtis occidentalis		14	Good
392         Sassafras albidum         15         Good           393         Rhamnus cathartica         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
393         Rhamnus cathartico         18         Good           394         Quercus rubra         6         Good           395         Rhamnus cathartico         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good		-			
394         Quercus rubra         6         Good           395         Rhamnus cathartica         8         Good           396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
396         Pyrus spp.         7         Good           397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good	394	Quercus rubra		6	Good
397         Ulmus pumila         28         Good           398         Alnus glutinosa         15         Good					
398 Alnus glutinosa 15 Good					
399 Alnus glutinosa 8 Good	398	Alnus glutinosa		15	Good
		Alnus glutinosa			

	I Alama alaPasasa I			
401	Alnus glutinosa		8	Good
402	Ulmus pumila		8	Good
403	Alnus glutinosa		6	Good
404	Alnus glutinosa		10	Good
405	Alnus glutinosa		10	Good
406	Alnus glutinosa		10	Good
407	Alnus glutinosa		11	Good
408	Alnus glutinosa		9	Good
409	Tilia americana		8	Good
			_	
410	Tilia americana Ulmus pumila		7	Good
411	<u> </u>		12	Good
412	Rhamnus cathartica	Ref. 402	13	Good
413	Prunus serotina		6	Good
414	Salix alba		16	Good
415	Quercus alba		52	Good
416	Rhamnus cathartica		9	Good
417	Ulmus pumila		6	Good
418	Prunus serotina		8	Good
419	Alnus glutinosa		15	Good
421	Alnus glutinosa		6	Good
422	Ulmus pumila		7	Good
	· · · · ·			
423	Rhamnus cathartica		10	Good
424	Salix alba		6	Good
425	Sassafras albidum		8	POOR
426	Acer saccharinum		10	Good
427	Acer negundo		40	Good
428	Populus deltoides		10	Good
429	Rhamnus cathartica		69	Good
430	Prunus serotina		7	Good
431	Prunus serotina	POOR	15	Good
433	Sassafras albidum	1 0011	12	Good
434	Sassafras albidum		15	Good
435	Rhamnus cathartica	VEED	19	Good
436	Quercus alba	KEEP	6	Good
437	Juglans nigra	Lance Descript VPFS	35	Good
438	Quercus alba	Large Parent Tree KEEP	13	Good
439	Carya ovata	Large Parent Tree KEEP	45	Good
440	Quercus alba		21	Good
441	DEAD		7	Good
442	Prunus seroting442	& 443 are the same tree (Multiste	m) g	Good
443	Prunus serotina	,	16	Good
444	Quercus alba		21	Good
445	Juglans nigra		13	
				Good
446	Quercus alba		10	Good
447	Quercus rubra		15	Good
448	Quercus rubra		14	Good
449	Juglans nigra		15	Good
450	Fraxinus pennsylvanica	Should Keep Large Caliper Elm	11	Good
451	Juglans nigra		16	Good
452	Quercus alba		8	Good
453	Quercus rubra		19	Good
454	Quercus rubra		14	Good
455	Quercus rubra		11	Good
456	Juglans nigra		10	Good
457	Juglans nigra		11	Good
	Juglans nigra			
458	Jugians nigra		10	Good
459			14	Good
460	Juglans nigra		15	-
				Good
461	Quercus rubra		16	Good
462	Juglans nigra		16 8	Good Good
	Juglans nigra Juglans nigra		16	Good Good Good
462	Juglans nigra Juglans nigra Juglans nigra		16 8	Good Good
462 463	Juglans nigra Juglans nigra		16 8 12	Good Good Good
462 463 465	Juglans nigra Juglans nigra Juglans nigra Juglans nigra		16 8 12 18	Good Good Good POOR
462 463 465 466 467	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina		16 8 12 18 11 14	Good Good POOR Good Good
462 463 465 466 467 468	Juglans nigra Juglans nigra Juglans nigra Juglans nigra		16 8 12 18 11 14	Good Good POOR Good Good
462 463 465 466 467 468 469	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides	DUUD	16 8 12 18 11 14 19 6	Good Good POOR Good Good Good
462 463 465 466 467 468 469 470	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina	POOR	16 8 12 18 11 14 19 6	Good Good POOR Good Good Good Good
462 463 465 466 467 468 469 470 471	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila	POOR	16 8 12 18 11 14 19 6 21 8	Good Good POOR Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila	POOR	16 8 12 18 11 14 19 6 21 8	Good Good POOR Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina	POOR	16 8 12 18 11 14 19 6 21 8	Good Good Good Good Good Good Good Good
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462 463 465 466 467 468 469 470 471 472 473 474 475	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila	POOR	16 8 12 18 11 14 19 6 21 8 12 8	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473 474 475 476	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila	POOR	16 8 12 18 11 14 19 6 21 8 12 8 12 8	Good Good Good Good Good Good Good Good
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462 463 465 466 467 468 469 470 471 472 473 474 475 476 477 478 480	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Jilia americana Prunus serotina Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus rubra Prunus serotina	POOR	16 8 12 18 11 14 19 6 21 8 12 8 19 8 0 8	Good Good Good Good Good Good Good Good
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462 463 465 466 467 468 469 470 471 472 473 474 475 476 477 478 480 481 482	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Tilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila Ulmus pumila Ulmus pumila Ulmus pumila Quercus rubra Quercus rubra Ulmus pumila DEAD Quercus alba Quercus rubra Prunus serotina Prunus serotina Prunus serotina	POOR	16 8 12 18 11 14 19 6 21 8 12 8 0 8 19 8 0 8	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473 474 475 476 477 478 480 481 482 483	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Jilia americana Perunus serotina Perunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus rubra Prunus serotina Prunus serotina Acer negundo	POOR	16 8 12 18 11 14 19 6 21 8 12 8 19 8 0 8 14 12 8 19 8 10 8	Good Good Good Good Good Good Good Good
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462 463 465 466 467 468 469 470 471 472 473 474 475 476 477 478 480 481 482 483 484 485 486 487	Juglans nigra Prunus serotina Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus alba Quercus rubra Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Resus typhina Acer saccharinum Acer saccharinum	POOR	16 8 12 18 11 14 19 6 21 8 12 8 19 8 0 8 14 12 7 7 8 16 7	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473 474 475 476 477 478 480 481 482 483 484 485 486 487 489	Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Flilia americana Prunus serotina Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus rubra Prunus serotina Resus typhina Acer saccharinum Prunus serotina Resus typhina Acer saccharinum	POOR	16 8 12 18 11 14 19 6 21 8 12 8 19 8 0 0 8 14 12 7 8 17 8	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 470 471 472 473 474 475 476 477 478 480 481 482 483 484 485 486 487 489 4991	Juglans nigra Jilia americana Prunus serotina Populus tremuloides Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus rubra Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer negundo Acer saccharinum Prunus serotina Rsus typhina Acer saccharinum Acer saccharinum Ulmus americana Acer negundo	POOR	16 8 12 18 11 14 19 6 21 8 12 8 8 0 8 14 12 7 7 8 8 16 7 7	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473 474 475 476 480 481 482 483 484 485 486 487 489 489 489 489 489 489 489 489 489 489	Juglans nigra Prunus serotina Ulmus pumila Dimus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus alba Quercus rubra Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer negundo Acer saccharinum Ulmus americana Acer negundo Acer negundo Acer negundo	POOR	16 8 12 18 11 14 19 6 21 8 12 8 12 8 12 8 12 8 12 7 7 11 15 7 11	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 473 474 475 477 478 480 481 482 483 484 485 486 487 489 491	Juglans nigra Filia americana Prunus serotina Prunus serotina Ulmus pumila Ulmus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus rubra Quercus rubra Prunus serotina Acer negundo Acer saccharinum Prunus serotina Rsus typhina Acer saccharinum Ulmus americana Acer negundo Acer negundo Acer negundo Acer negundo Aler squedo	POOR	16 8 12 18 11 14 19 6 21 8 12 8 19 6 21 8 10 12 8 10 10 10 10 10 10 10 10 10 10	Good Good Good Good Good Good Good Good
462 463 465 466 467 468 469 470 471 472 473 474 475 476 480 481 482 483 484 485 486 487 489 489 489 489 489 489 489 489 489 489	Juglans nigra Prunus serotina Ulmus pumila Dimus pumila Prunus serotina Quercus rubra Ulmus pumila DEAD Quercus alba Quercus alba Quercus rubra Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Acer negundo Acer saccharinum Ulmus americana Acer negundo Acer negundo Acer negundo	POOR	16 8 12 18 11 14 19 6 21 8 12 8 12 8 12 8 12 8 12 7 7 11 15 7 11	Good Good Good Good Good Good Good Good

801	Populus deltoides		19	Good
802	Populus deltoides		33	Good
803	raxinus pennsylvanica	Ref. 303	8	Good
804	Ulmus pumila		4	Good
805	Salix alba	Ref. 405	36	Good
806	Acer negundo		11	Good
807	Acer negundo		9	Good
808	Ulmus americana		9	Good
810	Acer negundo		8	Good
811	Acer negundo		9	Good
812	Populus deltoides		23	Good
813	Salix alba		17	Good
814	Ulmus americana		7	Good
815	DEAD		0	Good
816	Populus deltoides		22	Good
817	Populus deltoides		11	Good
818	raxinus pennsylvanica		11	Good

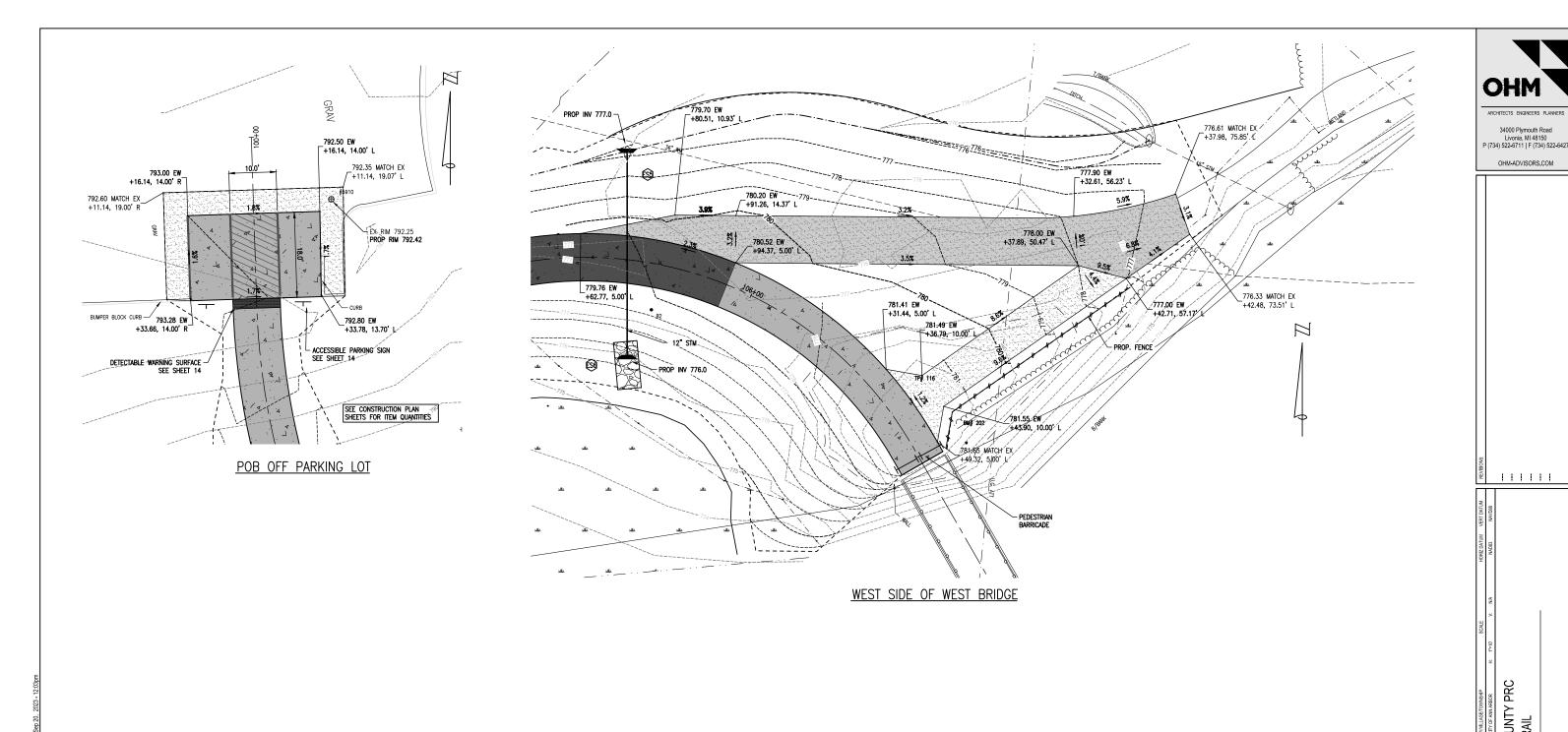


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REVISIONS ...

DNTE PROJ MUMBER ENG PROJUGR GODO COUNTY GIT/VULL/GET/ONNSHIP CARD TO COUNTY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL



**LEGEND** 

(L)

**LEGEND** REINFORCED CONCRETE PAVEMENT SEE DETAIL SHEET 6

HEAVY DUTY AGGREGATE SURFACE COURSE SEE DETAIL SHEET 6

Aggregate Surface Cse, 6 inch, Modified

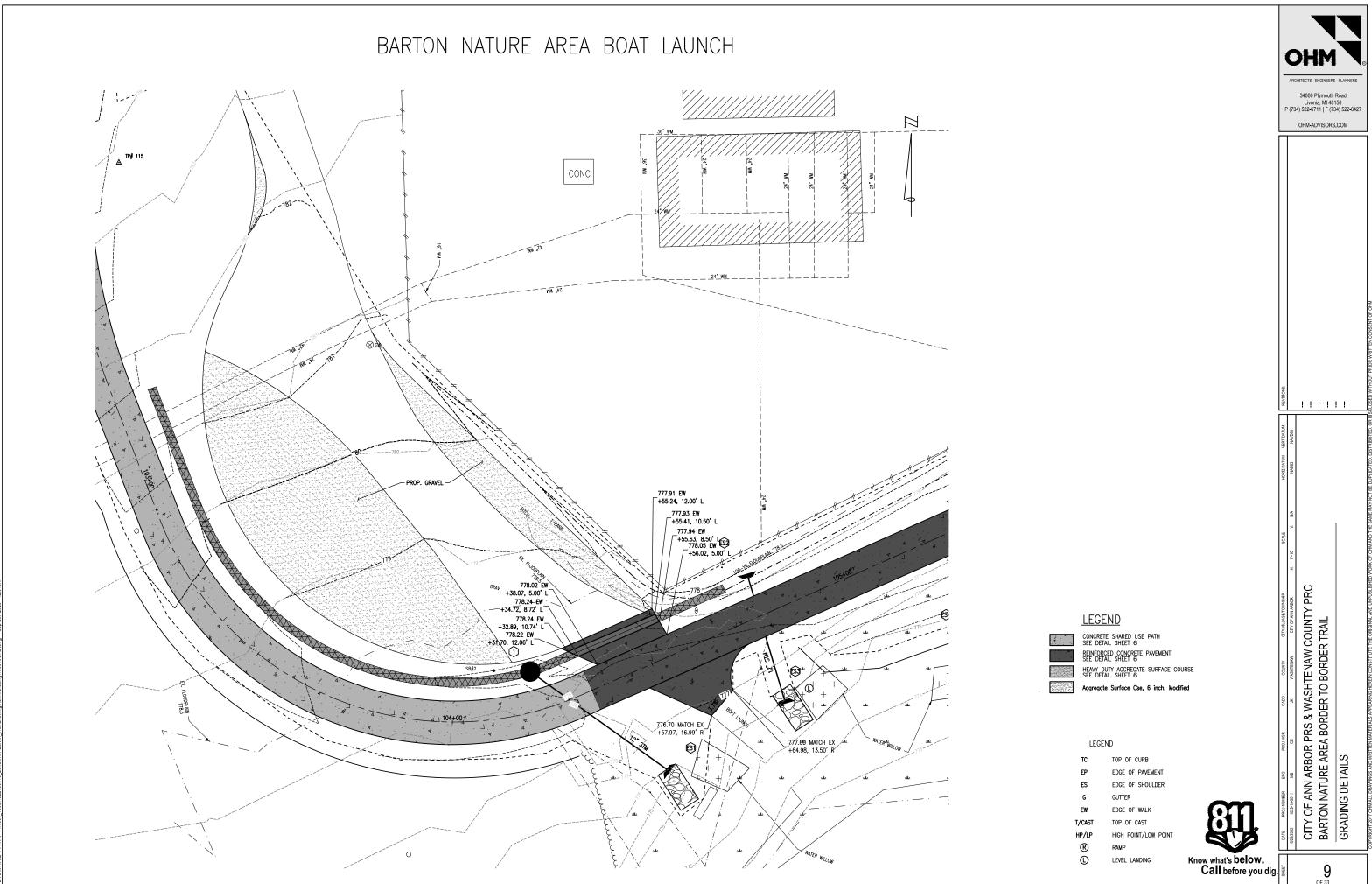
EDGE OF PAVEMENT EDGE OF SHOULDER GUTTER EDGE OF WALK T/CAST

TOP OF CAST HP/LP HIGH POINT/LOW POINT ® RAMP

LEVEL LANDING

Know what's below.

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL
GRADING DETAIL S





	ALIGNMENT CURVE DATA												
Curve #	Δ	R (Ft)	L (Ft)	Т	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C1	17'38'11"	150.000	46.172	23.27	100+35.59	295252.87	13288320.76	100+58.86	295229.62	13288321.51	100+81.76	295207.68	13288329.26
C2	20*52'30"	250.000	91.084	46.05	101+19.77	295171.84	13288341.93	101+65.82	295128.42	13288357.28	102+10.85	295082.38	13288356.15
C3	22'30'27"	150.000	58.925	29.85	102+18.61	295074.63	13288355.96	102+48.45	295044.79	13288355.22	102+77.53	295016.95	13288365.97
C4	92*43'30"	74.879	121.180	78.53	103+10.29	294986.38	13288377.76	103+88.82	294913.12	13288406.03	104+31.47	294944.84	13288477.87
C5	83'56'09"	80.000	117.196	71.95	105+30.40	294984.81	13288568.37	106+02.35	295013.87	13288634.18	106+47.59	294951.49	13288670.04
C6	25*21'53"	100.000	44.270	22.50	109+40.94	294697.17	13288816.22	109+63.44	294677.66	13288827.44	109+85.20	294655.22	13288829.21
C7	52'31'05"	150.000	137.492	74.00	110+40.19	294600.41	13288833.55	111+14.19	294526.64	13288839.39	111+77.69	294486.38	13288901.48
C8	28*20'35"	100.000	49.468	25.25	112+43.65	294450.50	13288956.83	112+68.90	294436.76	13288978.02	112+93.12	294414.61	13288990.15
C9	44'08'58"	100.000	77.055	40.55	112+93.12	294414.61	13288990.15	113+33.67	294379.04	13289009.62	113+70.17	294367.08	13289048.37
C10	30'36'57"	200.000	106.869	54.74	113+91.69	294360.73	13289068.93	114+46.44	294344.59	13289121.24	114+98.56	294304.06	13289158.04
C11	33'57'49"	150.000	88.917	45.81	114+98.56	294304.06	13289158.04	115+44.37	294270.14	13289188.83	115+87.48	294259.21	13289233.31
C12	31'02'32"	200.000	108.358	55.54	115+87.48	294259.21	13289233.31	116+43.02	294245.96	13289287.26	116+95.84	294206.79	13289326.64



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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
ALIGNMENT SHEET

	ALIGNMENT CURVE DATA												
Curve #	Δ	R (Ft)	L (Ft)	T	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C13	58*15'38"	100.000	101.684	55.73	116+95.84	294206.79	13289326.64	117+51.56	294167.49	13289366.15	117+97.52	294180.42	13289420.36
C14	28*25'27"	100.000	49.609	25.33	117+97.52	294180.42	13289420.36	118+22.85	294186.30	13289444.99	118+47.13	294179.74	13289469.45
C15	29"20"31"	60.000	30.727	15.71	119+75.38	294146.53	13289593.33	119+91.09	294142.46	13289608.50	120+06.11	294131.48	13289619.74
C16	35*43'20"	150.000	93.520	48.34	120+30.24	294114.61	13289636.99	120+78.57	294080.82	13289671.55	121+23.76	294073.57	13289719.34
C17	35*04'26"	150.000	91.823	47.40	121+84.49	294064.46	13289779.39	122+31.89	294057.35	13289826.26	122+76.32	294024.60	13289860.53
C18	11*39'38"	100.000	20.351	10.21	123+87.15	293948.02	13289940.65	123+97.36	293940.96	13289948.04	124+07.50	293932.56	13289953.84
C20	29"08'57"	200.000	101.749	52.00	126+62.84	293762.83	13290143.06	127+14.84	293729.84	13290183.26	127+64.59	293681.45	13290202.30
C21	15*59'58"	200.000	55.848	28.11	127+64.59	293681.45	13290202.30	127+92.70	293655.30	13290212.59	128+20.44	293632.99	13290229.69
C22	8"59"32"	200.000	31.389	15.73	128+20.44	293632.99	13290229.69	128+36.16	293620.51	13290239.26	128+51.83	293606.69	13290246.76

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 CITY OF ANN ARBOR PRS & WASHTENAW
 COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL

 ALIGNMENT SHEET
 ALIGNMENT SHEET

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	ALIGNMENT CURVE DATA													
Curve #	Δ	R (Ft)	L (Ft)	Т	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING	
C23	11"51'02"	100.000	20.683	10.38	131+29.62	293362.52	13290379.25	131+40.00	293353.40	13290384.20	131+50.31	293345.49	13290390.92	
C24	25*17'15"	100.000	44.135	22.43	131+50.31	293345.49	13290390.92	131+72.74	293328.39	13290405.44	131+94.44	293306.72	13290411.26	
C25	91'37'02"	9.151	14.633	9.41	134+99.33	293012.29	13290490.42	135+08.74	293003.06	13290492.27	135+13.96	293005.16	13290501.44	
C26	27"05'29"	465.282	220.000	112.10	135+13.96	293005.16	13290501.44	136+26.06	293030.77	13290610.58	137+33.96	293003.86	13290719.40	
C27	53'34'35"	100.000	93.509	50.49	139+06.44	292962.67	13290886.89	139+56.93	292951.76	13290936.18	139+99.95	292984.95	13290974.23	
C28	74"57'56"	75.000	98.130	57.51	141+01.06	293051.42	13291050.42	141+58.57	293089.23	13291093.76	141+99.19	293140.89	13291068.49	
C29	45"24'22"	75.000	59.436	31.38	141+99.19	293140.89	13291068.49	142+30.57	293169.08	13291054.70	142+58.63	293198.69	13291065.09	
C30	71"19'21"	35.000	43.569	25.11	142+67.69	293207.23	13291068.09	142+92.80	293230.93	13291076.41	143+11.25	293230.64	13291101.52	

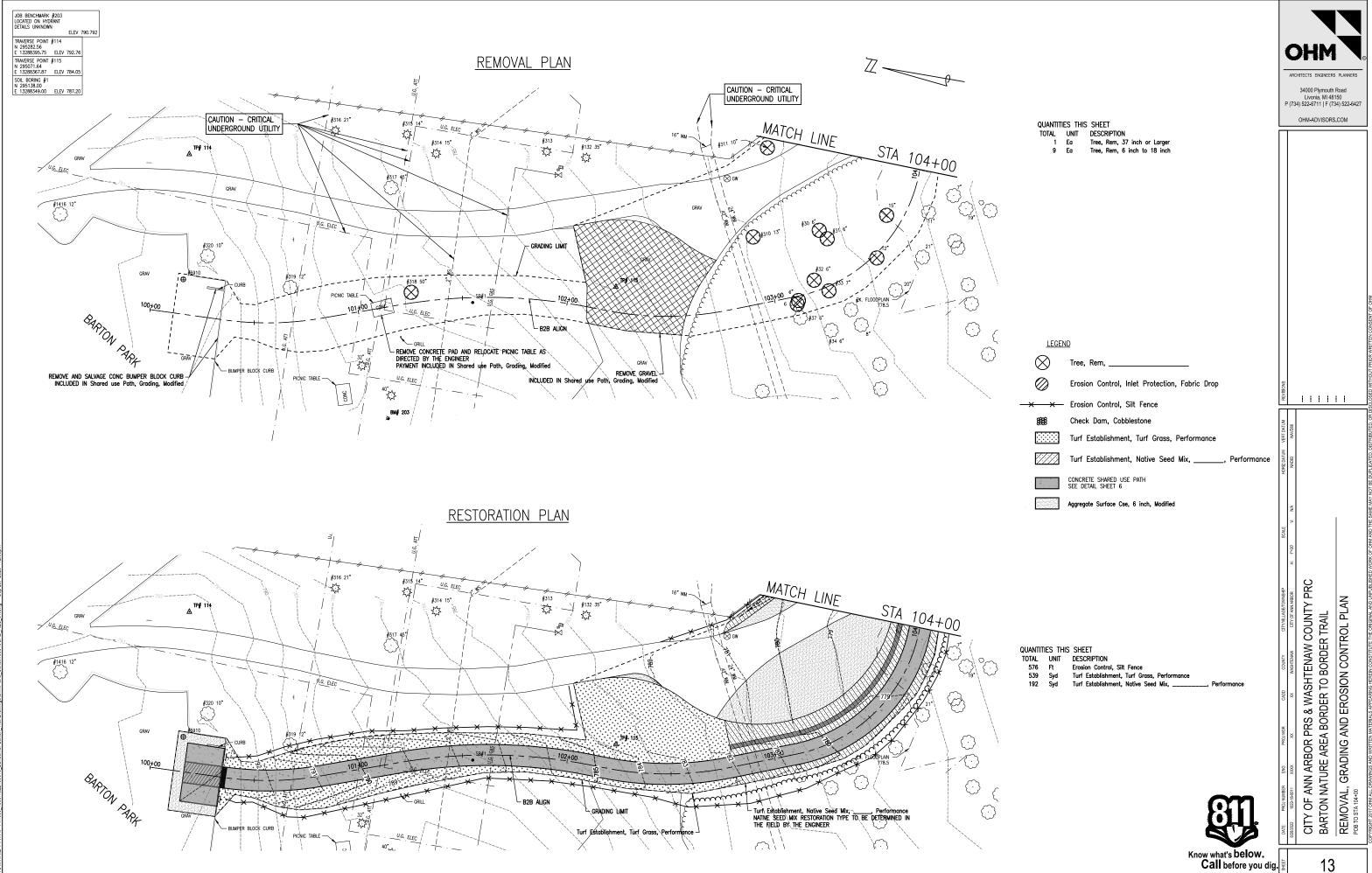


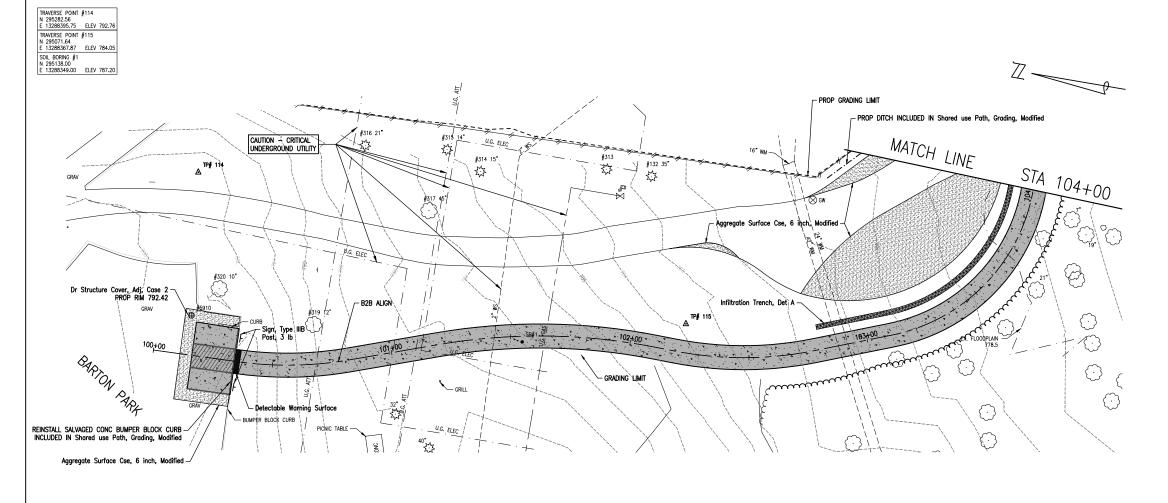
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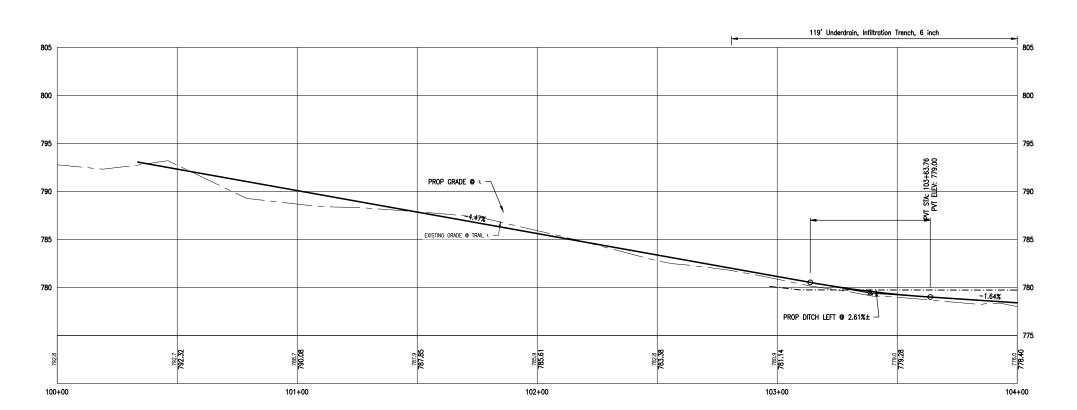
 BARTON NATURE AREA BORDER TO BORDER TRAIL

 ALIGNMENT SHEET

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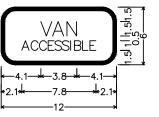
R7-8

1.5" Radius, 0.4" Border, 0.4" Indent, Green on White; "RESERVED", C 2K 50% spacing; R7-8 (12" X 18") 1.5 SFT TYPE IIIB SIGN

"PARKING", C 2K 66% spacing; Rounded Rectangle 0.5" Radius Blue; "ONLY", C 2K;

R7-8p (12" X 6") 0.5 SFT TYPE IIIB SIGN

1- 3# POST (15 FT)



R7-8p\_12x6

1.5" Radius, 0.4" Border, White on Blue; "VAN", D 2K specified length; "ACCESSIBLE", D 2K specified length;

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

Infiltration Trench, Det A

Aggregate Surface Cse, 6 inch, Modifie

Dr Structure Cover, Adj, Case 2 Underdrain, Infiltration Trench, 6 inch

119

Shared use Path, Conc

488 389 547 Shared use Path, Grading, Modified

Shared use Path, Aggregate, 8 inch, Modified

30 4 Post, Steel, 3 lb

Sign, Type IIIB Pavt Mrkg, Waterborne, for Rest Areas, Parks, and Lots, 4 inch, Blue

# **LEGEND**

REINFORCED CONCRETE PAVEMENT SEE DETAIL SHEET 6

HEAVY DUTY AGGREGATE SURFACE COURSE SEE DETAIL SHEET 6

Aggregate Surface Cse, 6 inch, Modified

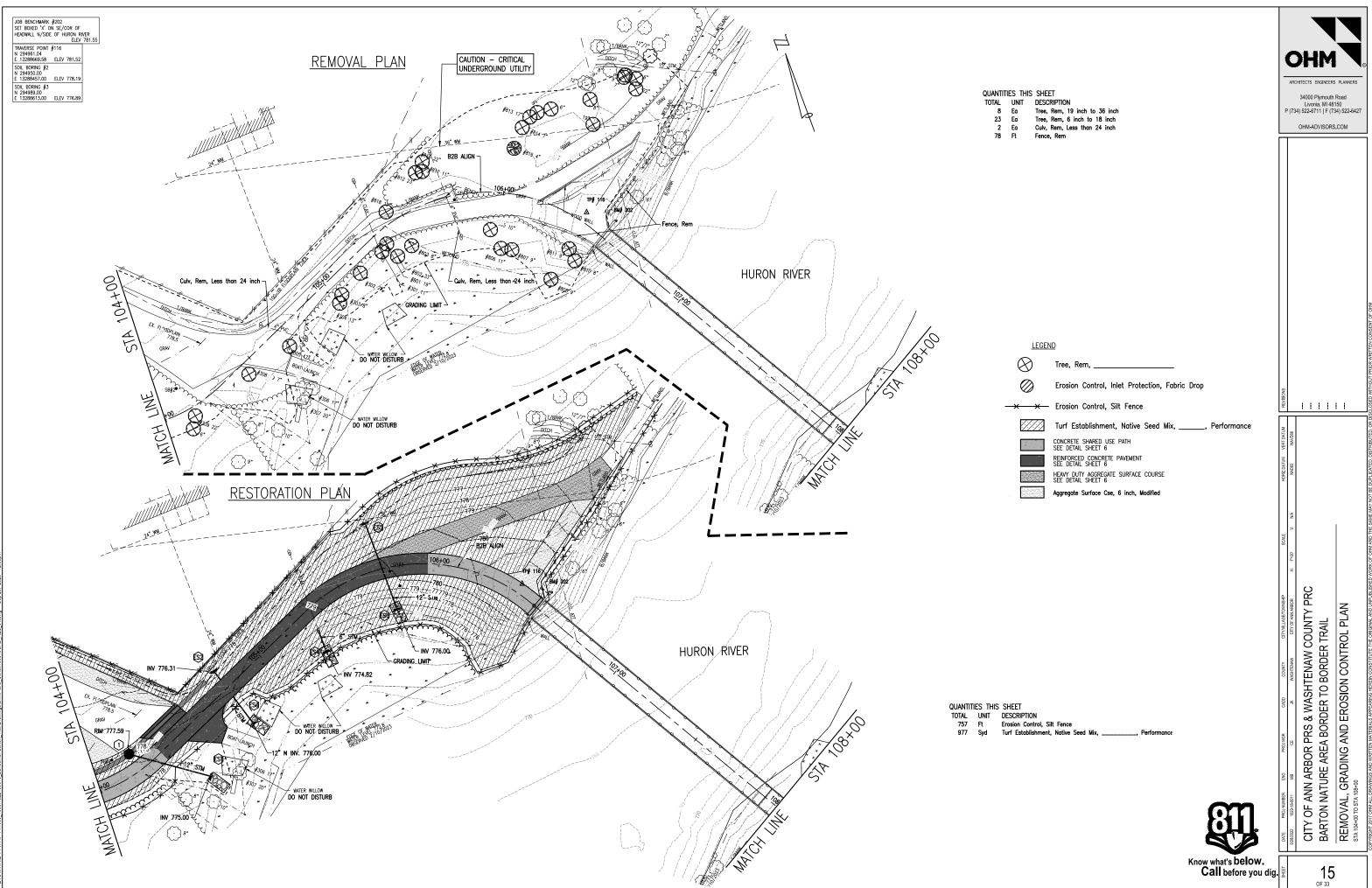


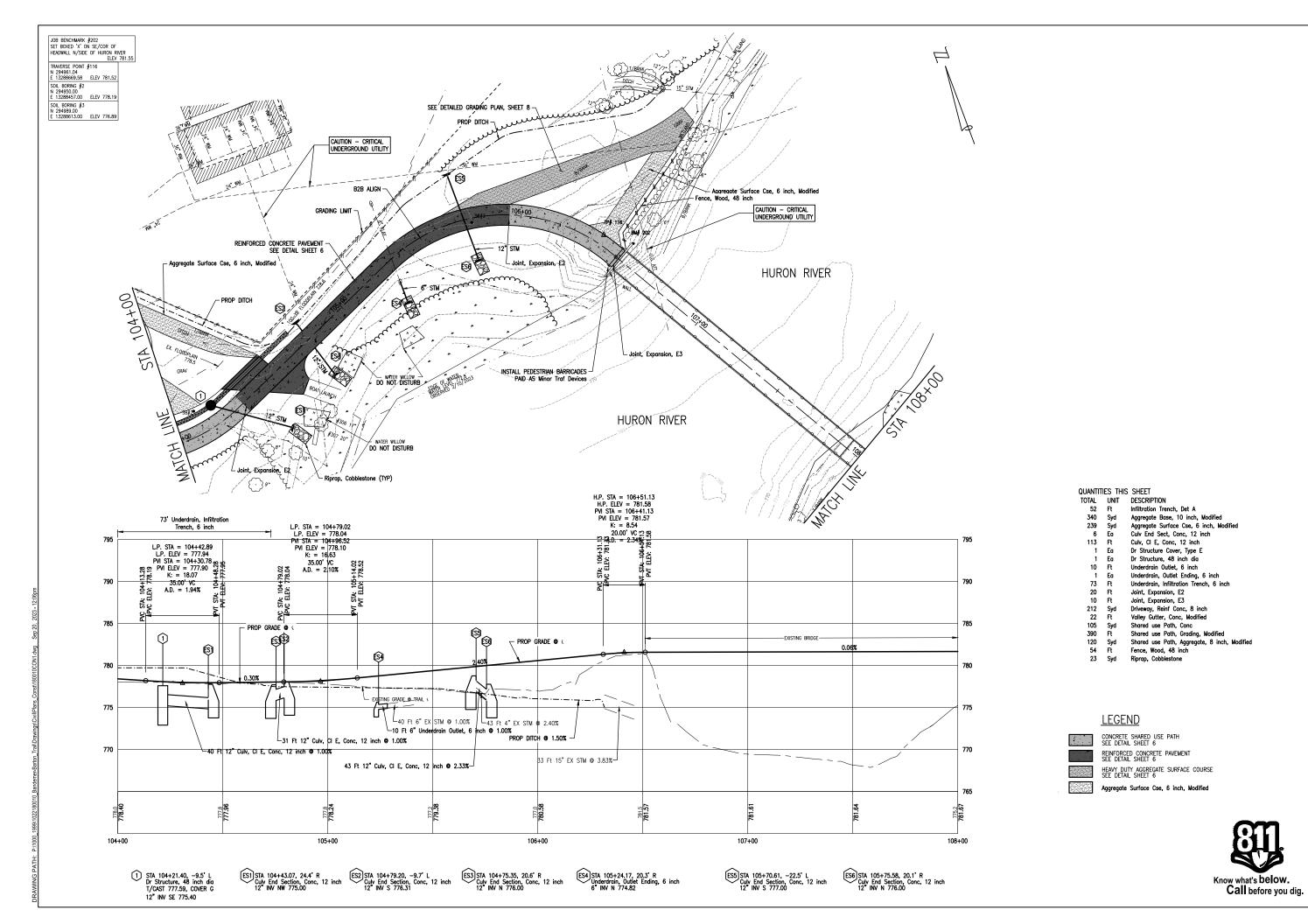
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL CONSTRUCTION PLAN

34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427

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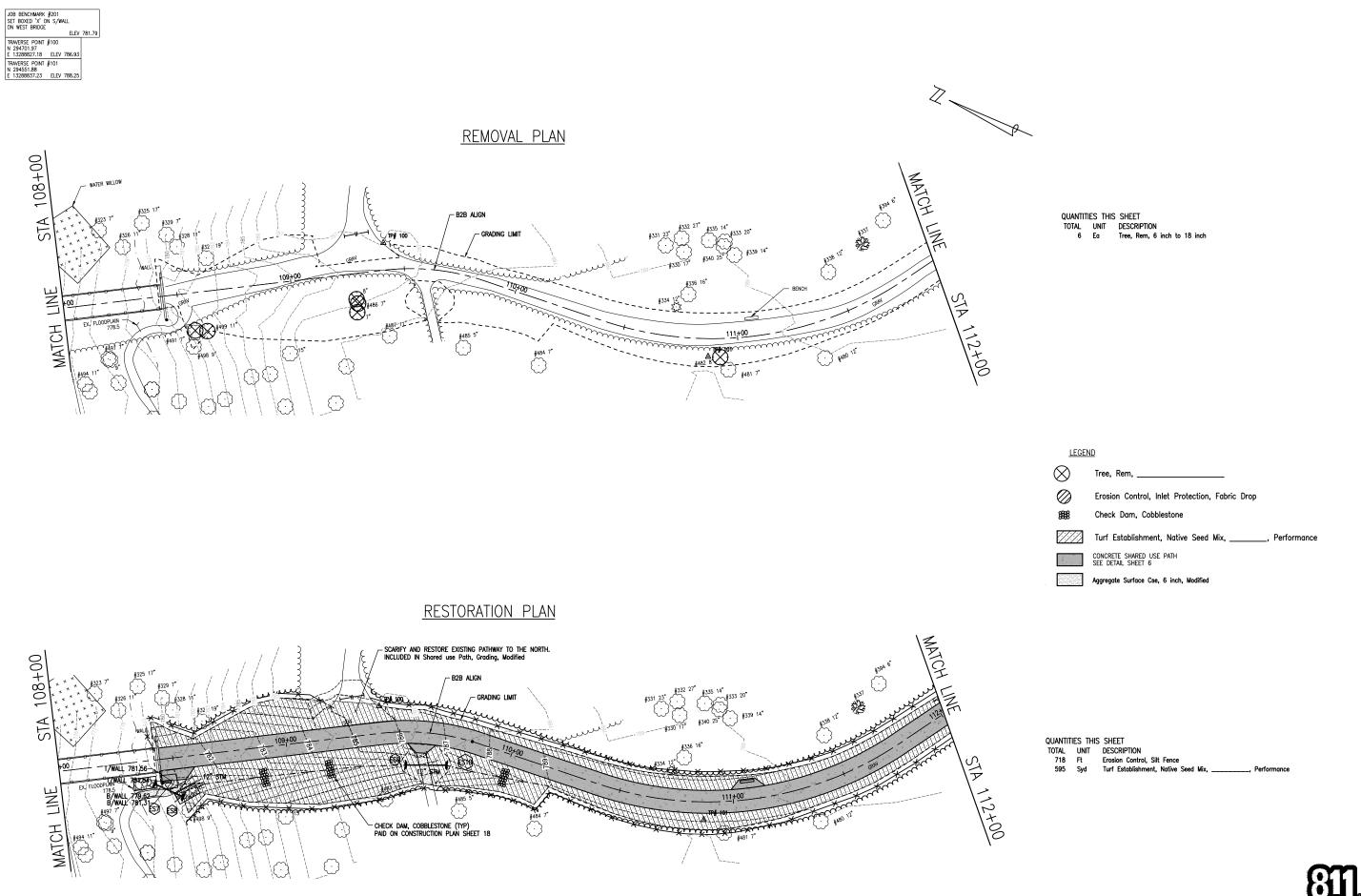


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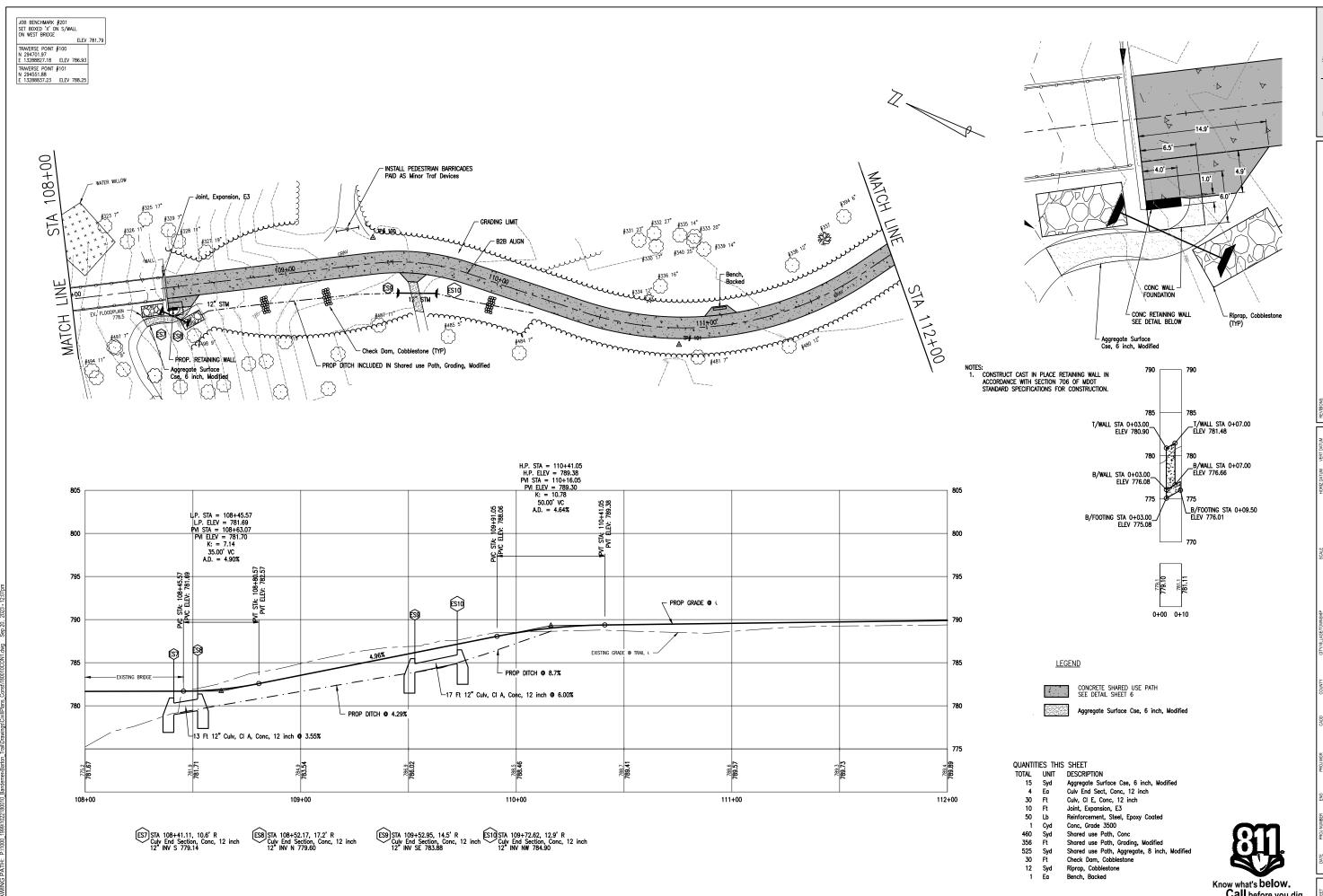
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL CONSTRUCTION PLAN
STA 104+00 TO STA 108+00

16



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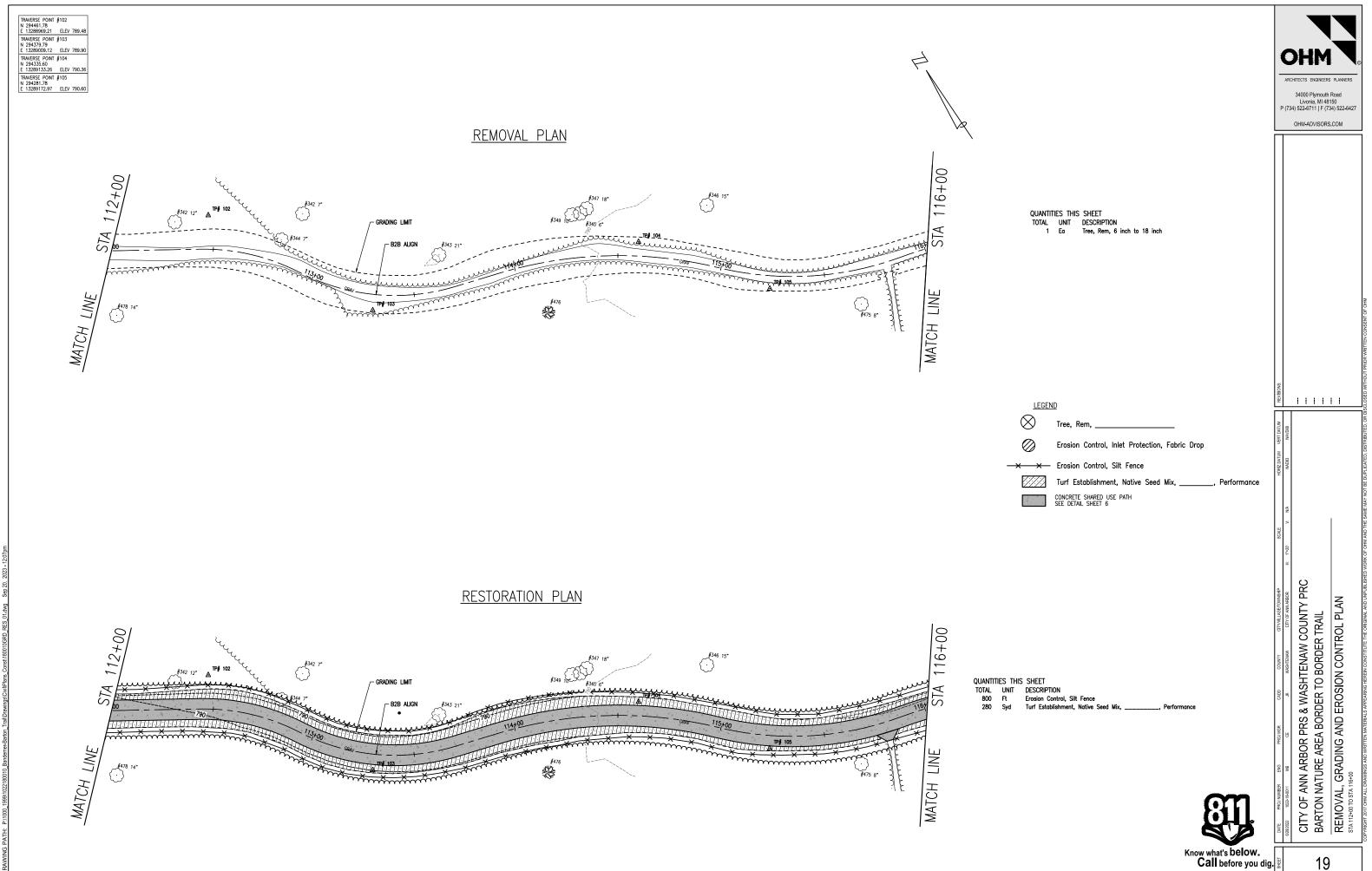
Know what's below.

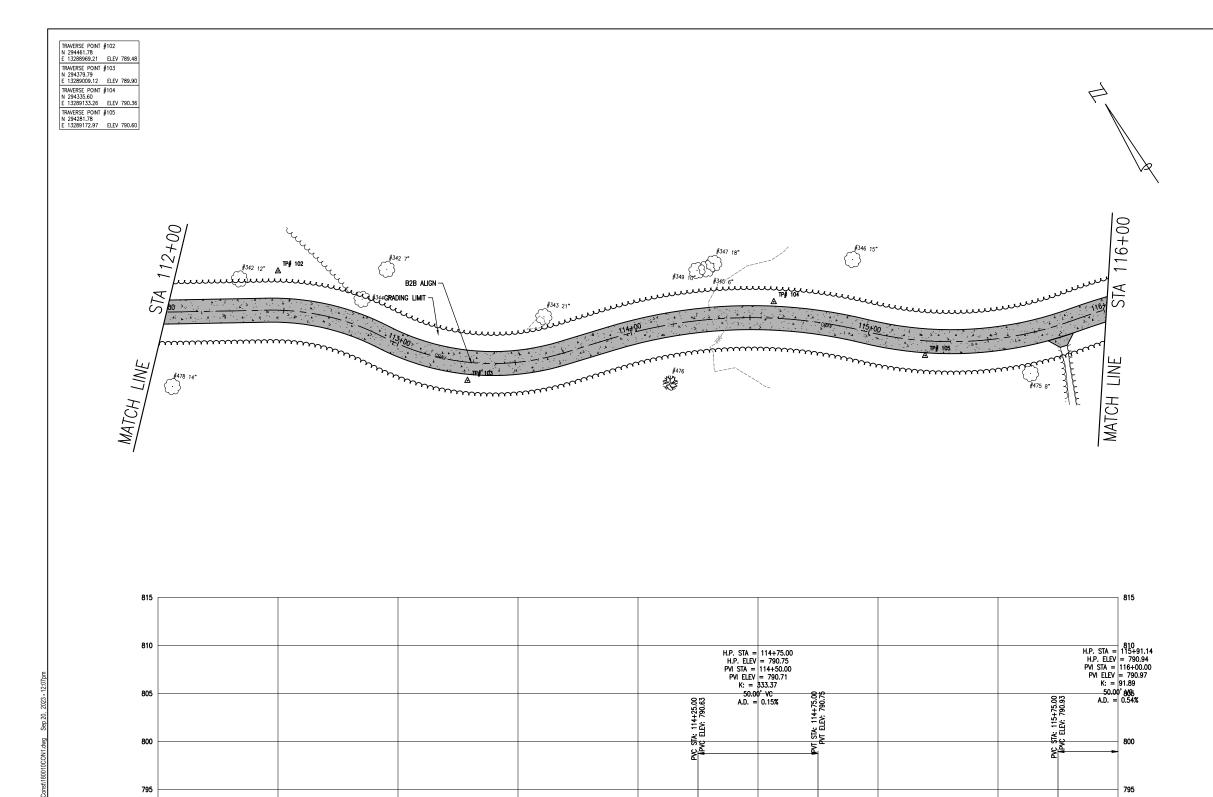


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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL CONSTRUCTION PLAN
STA 108+00 TO STA 112+00

Know what's below.
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114+00

115+00

116+00

PROP GRADE @ 6

EXISTING GRADE @ TRAIL &

113+00

112+00

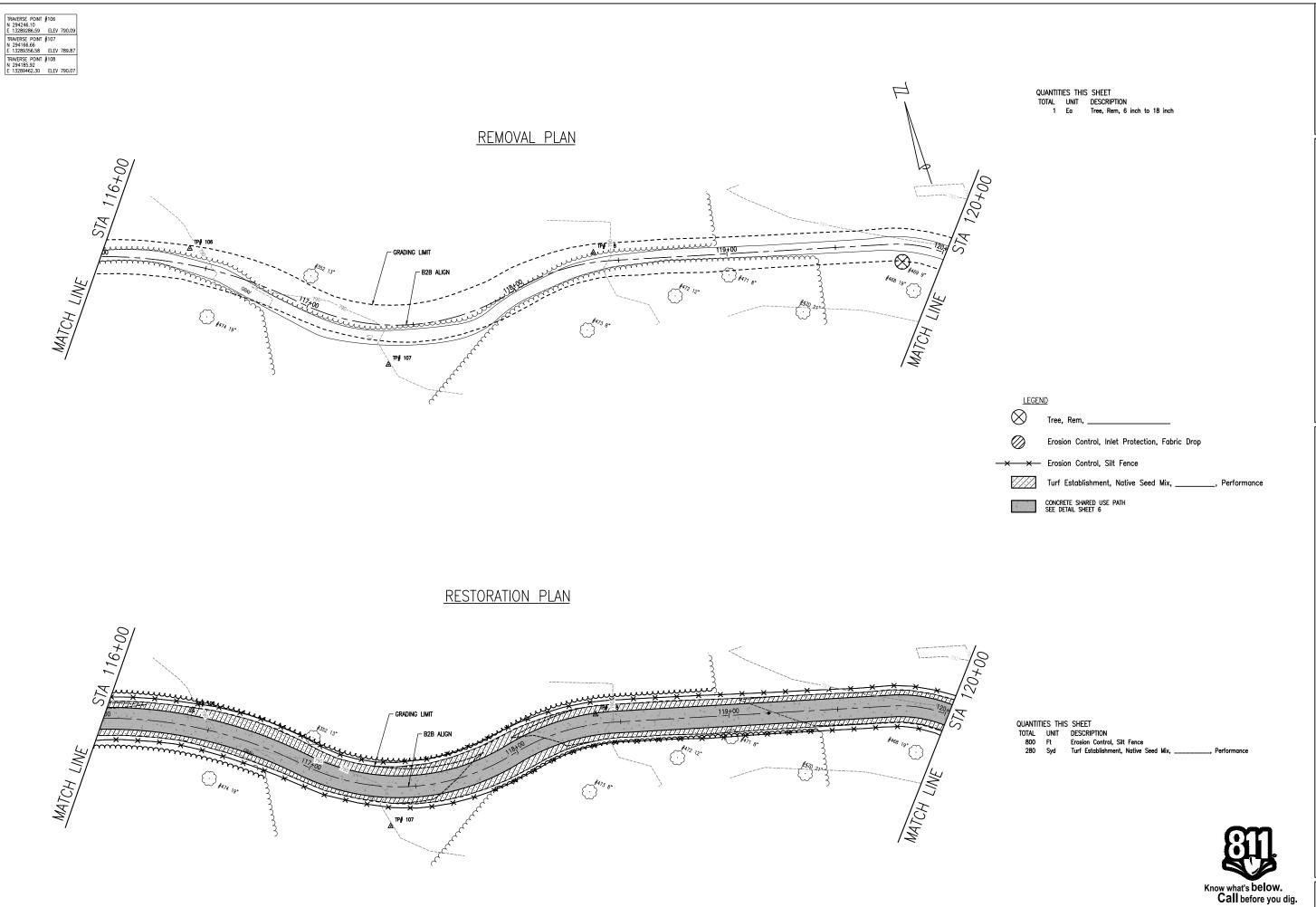
34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427 OHM-ADVISORS.COM

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DATE PROJABABER BNG PROJABOR CHOD CONNTY CITY/BLAGETOWNSHIP CT JK TOTZ-18-DOT1 NB CE JK WASHTENAW CITY OF ANN ARBOR CTTY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL CONSTRUCTION PLAN STA 112+00 TO STA 116+00

QUANTITIES THIS SHEET
TOTAL UNIT DESCRIPTION
467 Syd Shared use Path, Conc
400 Ft Shared use Path, Grading, Modified
534 Syd Shared use Path, Aggregate, 8 inch, Modified

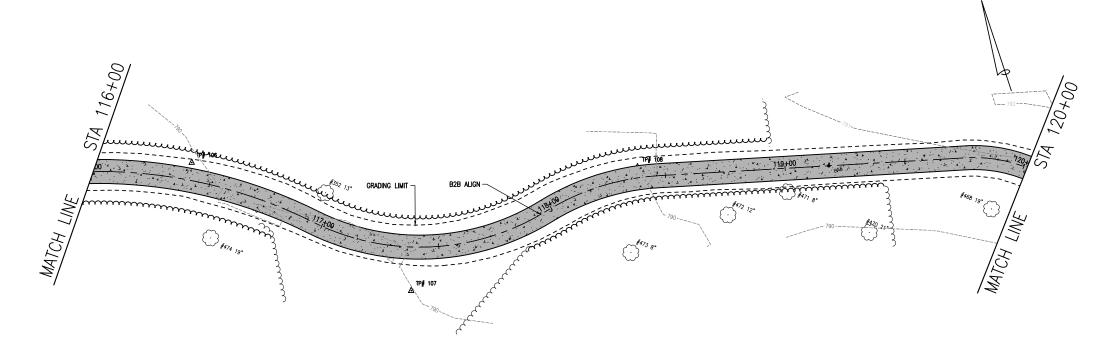


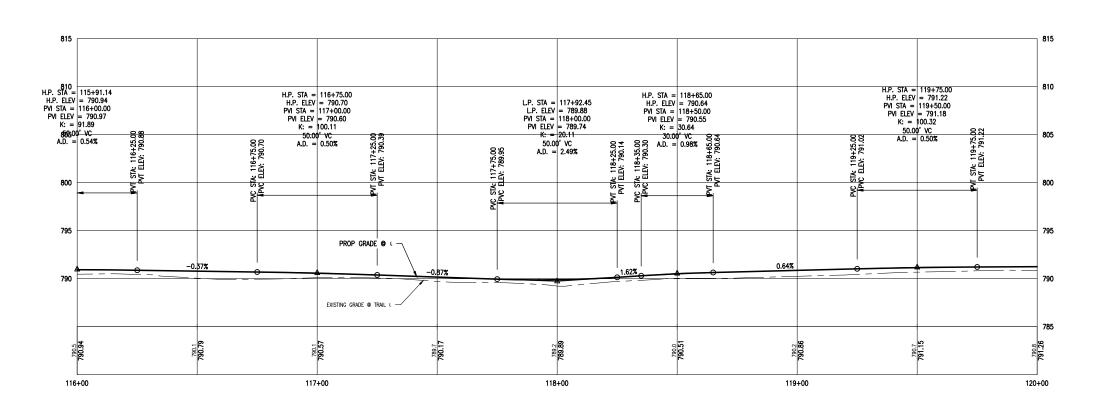
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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL

TRAVERSE POINT #106
N 294246.10
F 13289286.59
REV 790.09
TRAVERSE POINT #107
N 294166.66
F 13289356.58
ELEV 789.87
TRAVERSE POINT #108
N 294185.92
E 13289462.30
ELEV 790.07





QUANTITIES THIS SHEET TOTAL UNIT 467 Syd 400 Ft 534 Syd IS STICE!
DESCRIPTION
Shared use Path, Conc
Shared use Path, Grading, Modified
Shared use Path, Aggregate, 8 inch, Modified

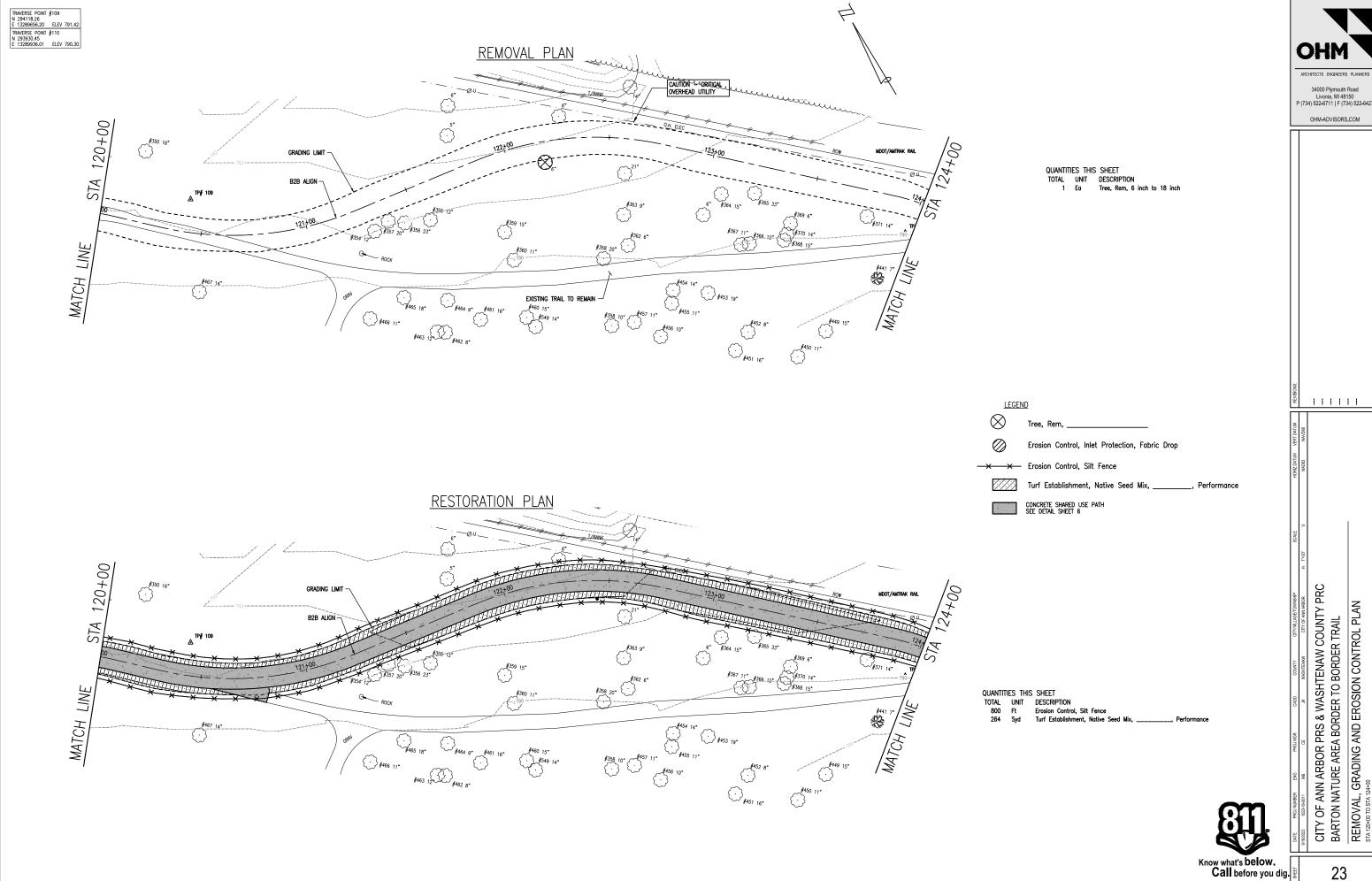
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Know what's below.
Call before you dig.

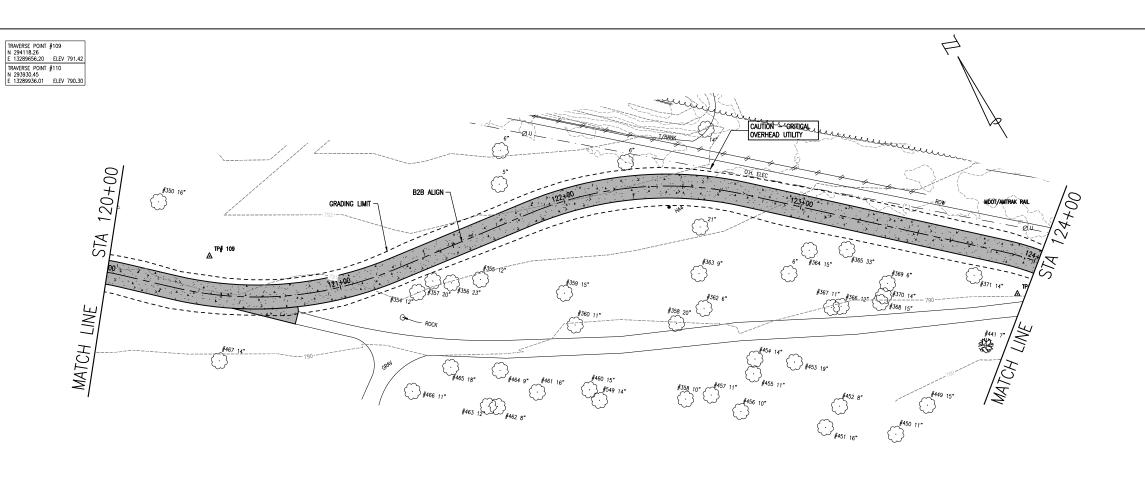
34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427 111111 CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL

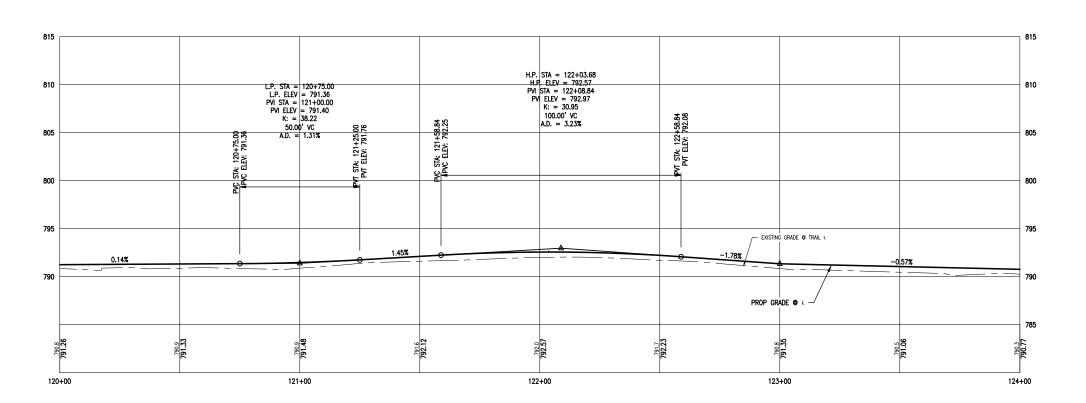
22 OF 33

CONSTRUCTION PLAN STA 116+00 TO STA 120+00



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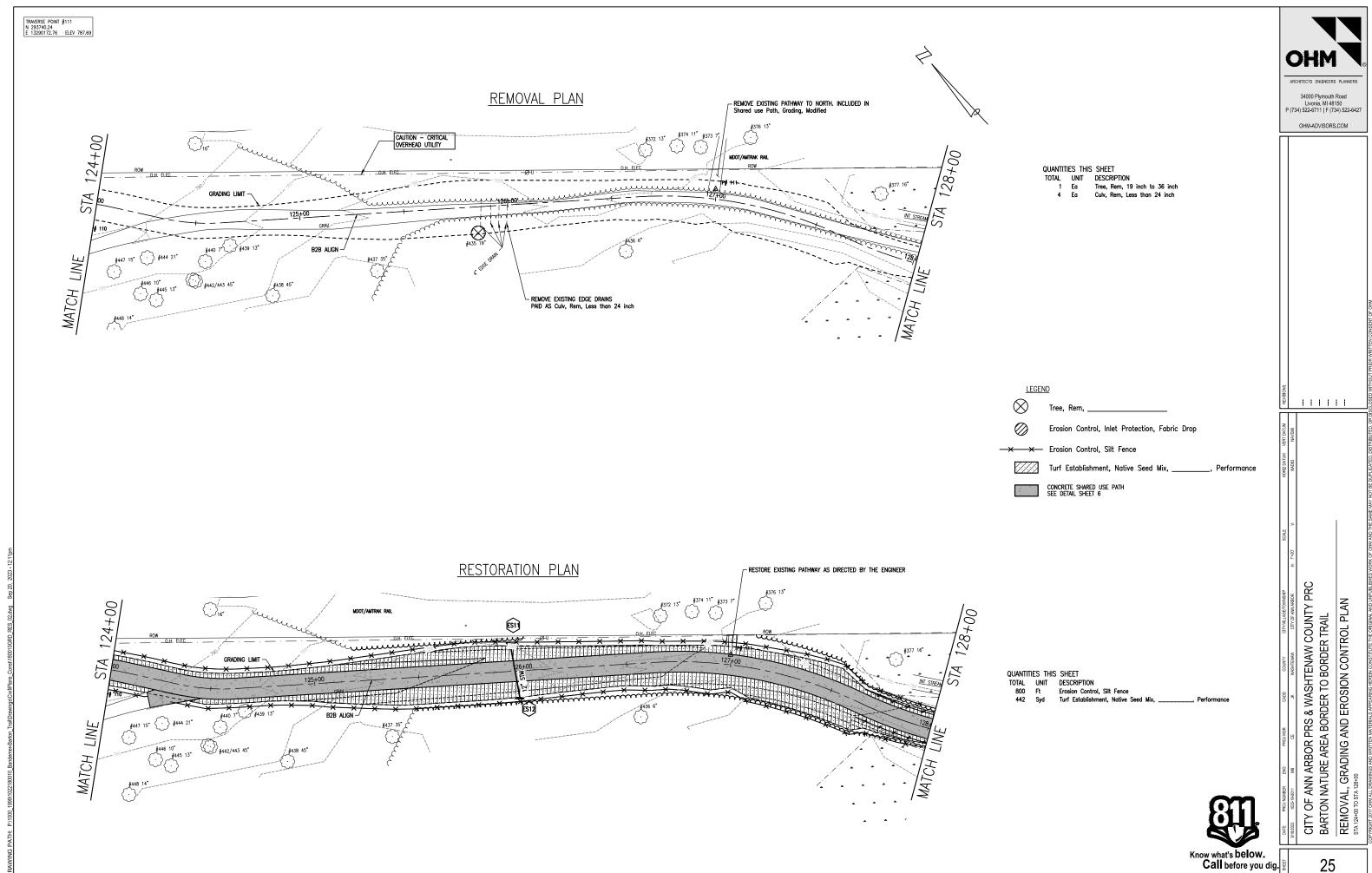
CITY/VILLAGE/TOWNSHIP	SCALE		HORIZ DATUM VERT DATUM	VERT DATUM
CITY OF ANN ARBOR	H: 1"=20"	V: 1°=4°	NAD83	NAVD88
COUNTY PRC				
TRAIL				

DATE PROJUMBER ENG PROJUGE CAUD COUNTY
STREAGE TEST-SEGRET INS CE IN WASHTENWY
CITY OF ANN ARBOR PRS & WASHTENAW CO CONSTRUCTION PLAN STA 120+00 TO STA 124+00

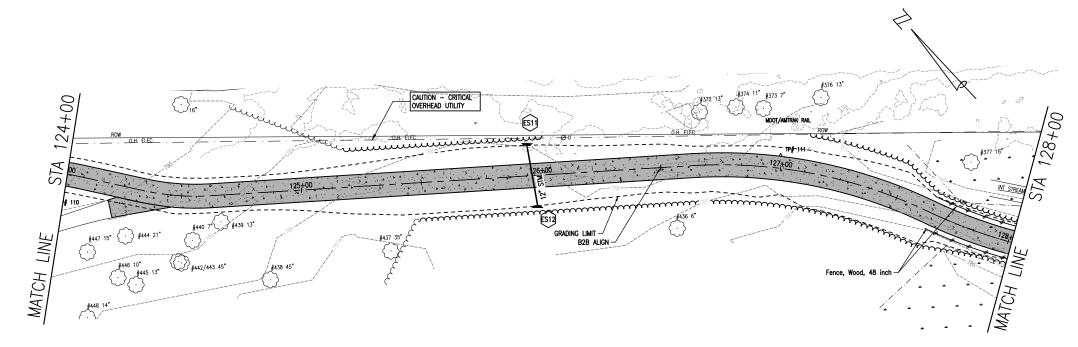
Know what's below.
Call before you dig.

QUANTITIES THIS SHEET
TOTAL UNIT DESCRIPTION
477 Syd Shared use Pat
400 Ft Shared use Pat
546 Syd Shared use Pat

Shared use Path, Conc Shared use Path, Grading, Modified Shared use Path, Aggregate, 8 inch, Modified







FENCE SHE	
STA	OFFSET
127+66	7.0' L/R
128+00	7.0' L/R

815 810 L.P. STA = 124+51.51 L.P. ELEV = 790.51 PVI STA = 124+26.51 PVI ELEV = 790.62 K: = 440.25 50.00 VC A.D. = 0.11% H.P. STA = 125+71.00 H.P. ELEV = 789.96 PVI STA = 125+96.00 PVI ELEV = 789.84 K: = 86.49 L.P. STA = 127+75.00 L.P. ELEV = 788.01 PVI STA = 127+50.00 PVI ELEV = 788.24 K: = 447.81 50.00' VC A.D. = 0.11% 805 50.00' VC A.D. = 0.58% 126+21.00 EV: 789.58 125+71.00 LEV: 789.96 800 STA: 127+ PVT ELEV VC STA: 127+ 795 795 ES11-790 EXISTING GRADE @ TRAIL & 124+00 125+00 126+00 127+00 128+00

> ES12 STA 125+97.83, 12.7' R Culv End Section, Conc, 12 inch 12" INV NE 787.80 ES11 STA 125+94.89, -12.7' L Culv End Section, Conc, 12 inch 12" INV SW 788.03

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION
4 Ea Culv, Rem, Les
2 Ea Culv End Sect,

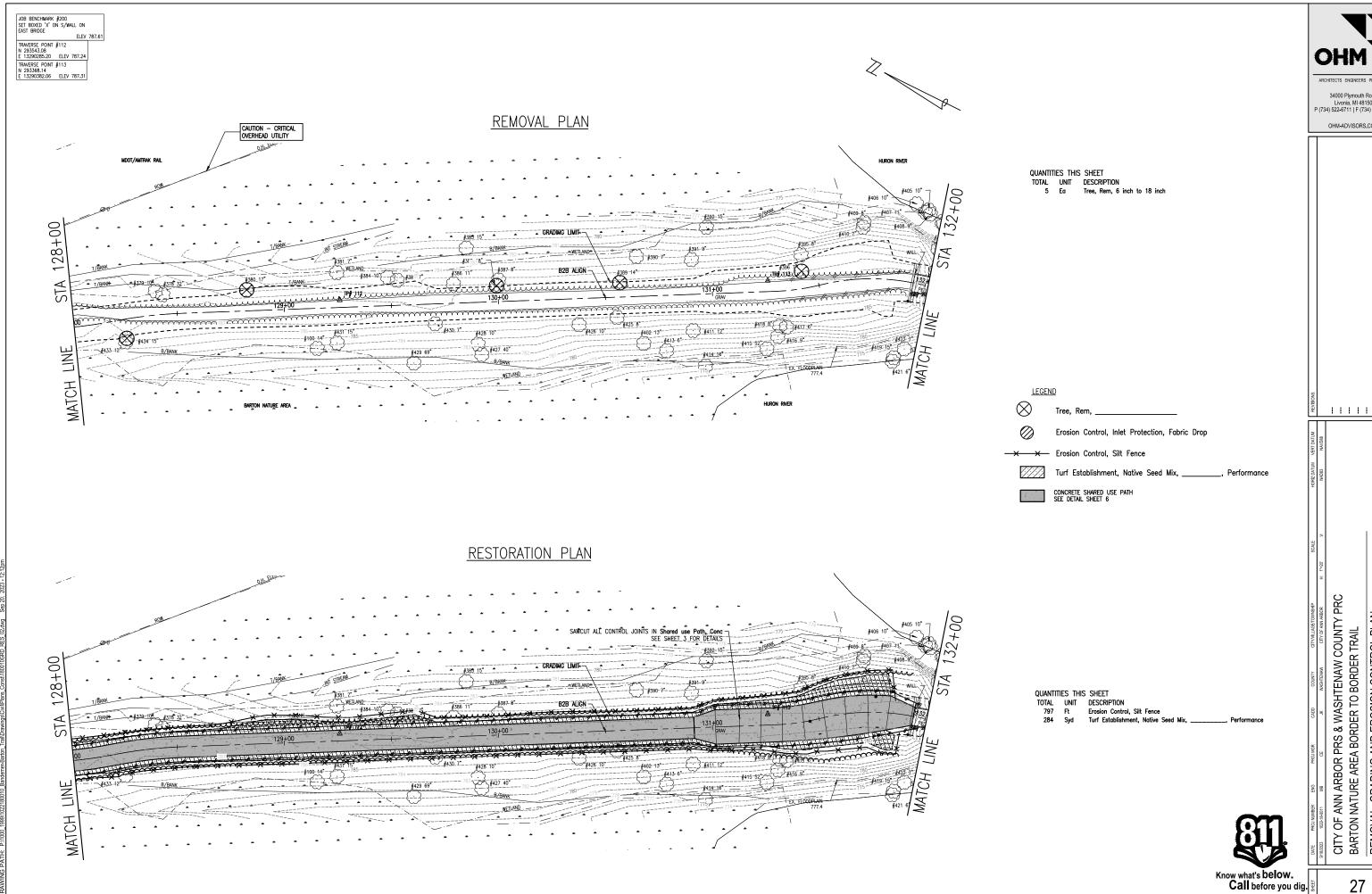
DESCRIPTION
Culv, Rem, Less than 24 inch
Culv End Sect, Conc, 12 inch
Culv, Cl E, Conc, 12 inch
Shared use Path, Conc
Shared use Path, Grading, Modified
Shared use Path, Aggregate, 8 inch, Modified
Fence, Wood, 48 inch 26 480 400 548 70

Know what's below.
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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL CONSTRUCTION PLAN STA 124+00 TO STA 128+00

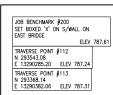
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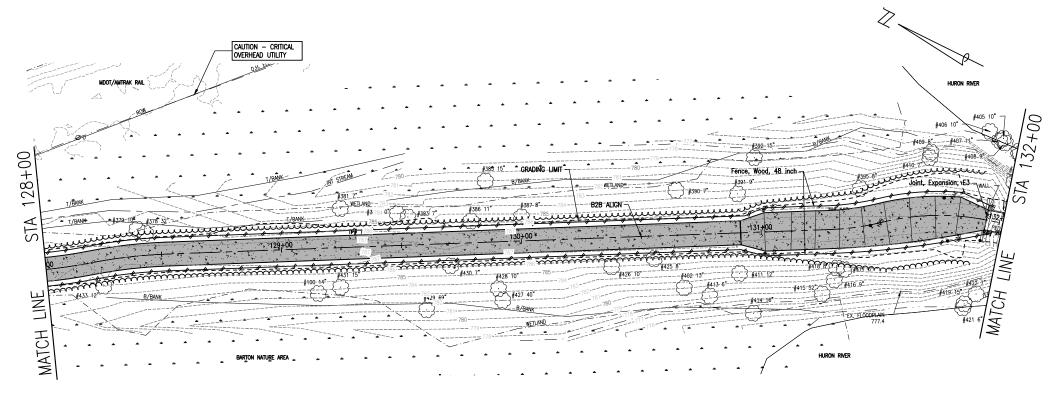
34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427



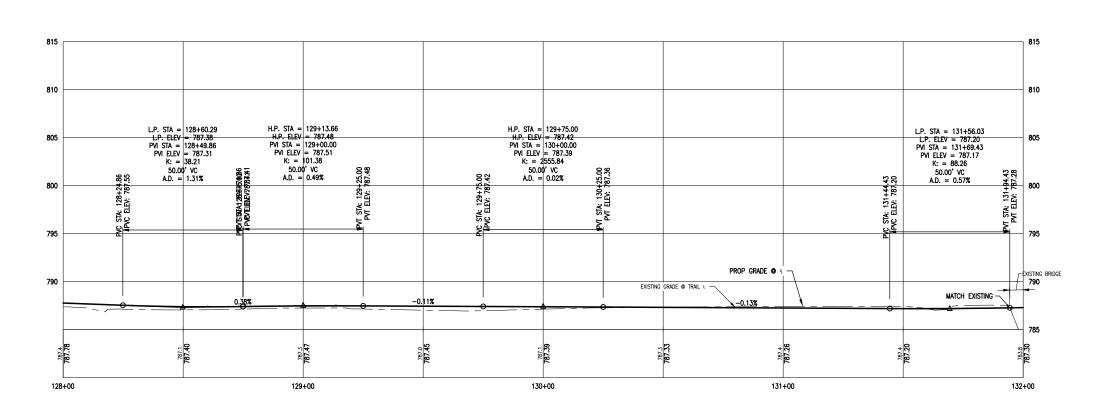
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STA	OFFSET
128+00	7.0' L/R
130+91	7.0' L/R
131+01	10.0' L/R
131+96	10.0' L/R



QUANTITIES THIS SHEET TOTAL

UNIT DESCRIPTION

544 400 607

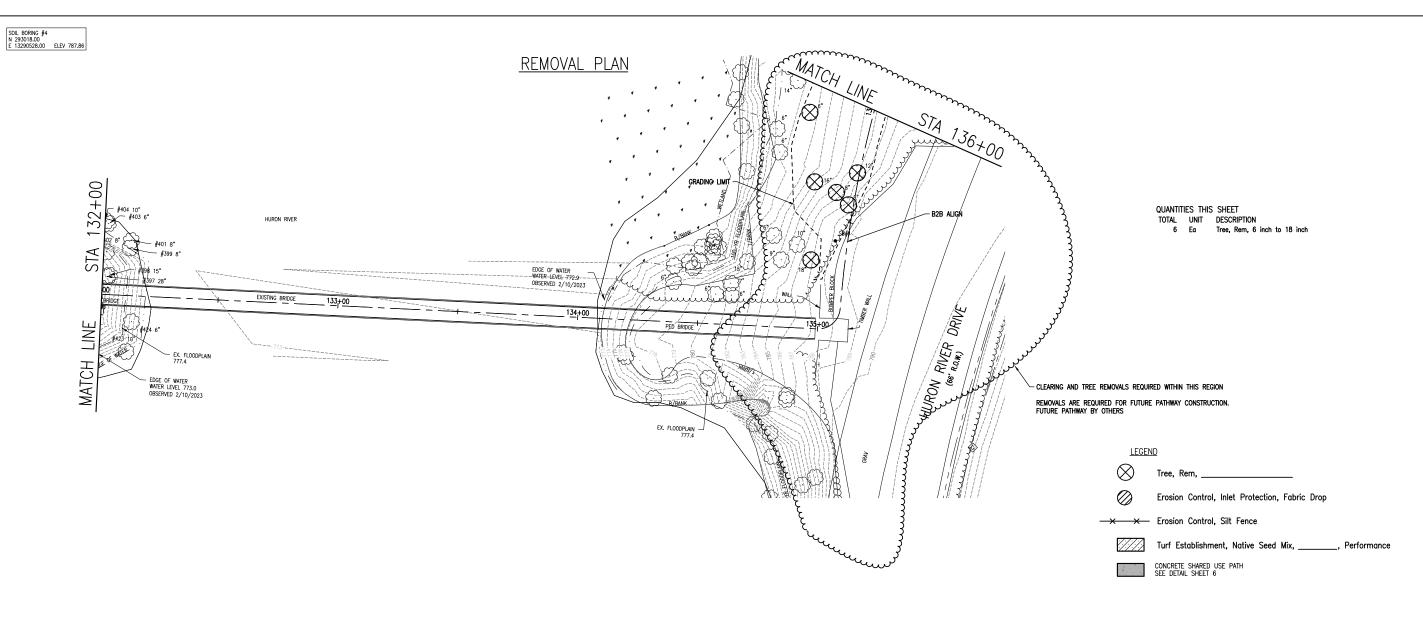
Joint, Expansion, E3 Shared use Path, Conc Shared use Path, Grading, Modified Shared use Path, Aggregate, 8 inch, Modified Fence, Wood, 48 inch 794



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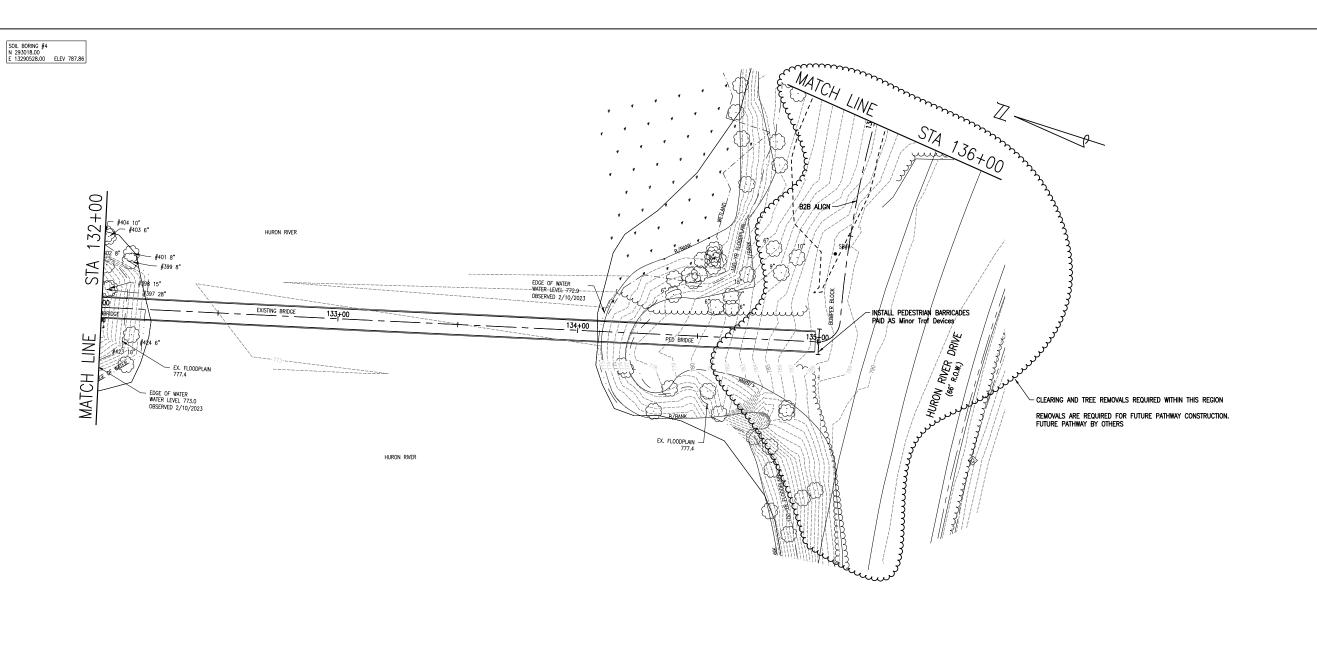
28 OF 33

CONSTRUCTION PLAN STA 128+00 TO STA 132+00



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Know what's below.
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VERT DATUM	REVISIONS:
NAVD88	
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	1
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STRIBUTED, OR DI	STRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

REVIS		į	i	į	į	i	i	
VERT DATUM	NAVD88							
HORIZ DATUM VERT DATUM	NAD83							
SCALE	V: 1"=4"							
-	H: 1"=20'							
NSHIP	30R	0	7 2 2					

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP		SCAI
9/18/2023	1022-18-0011	MB	CE	ЭK	WASHTENAW	CITY OF ANN ARBOR	H: 1"=20"	
CIT) BAR	7 OF ANI TON NAT	N ARB TURE A	CITY OF ANN ARBOR PRS & WASHTENAW COUNT BARTON NATURE AREA BORDER TO BORDER TRAIL	WASH DER TO	HENAW (	CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL		
CO)	CONSTRUCTION PLAN STA 132+00 TO STA 136+00	ION 8	PLAN					

DATE PROJUMURER ENG PROJ STREAGES TOZZ-S-05011 NB O CITY OF ANN ARBOR BARTON NATURE ARE/

SOIL BORING #5 N 293009.00 E 13290678.00 ELEV 781.05 SOIL BORING #6 N 292975.00 E 13290849.00 ELEV 782.53 Ħ REMOVAL PLAN 136+00 STA LINE MATCH Miller 1868 HURON RIVER DRIVE <u>LEGEND</u> Erosion Control, Inlet Protection, Fabric Drop × Erosion Control, Silt Fence CONCRETE SHARED USE PATH SEE DETAIL SHEET 6

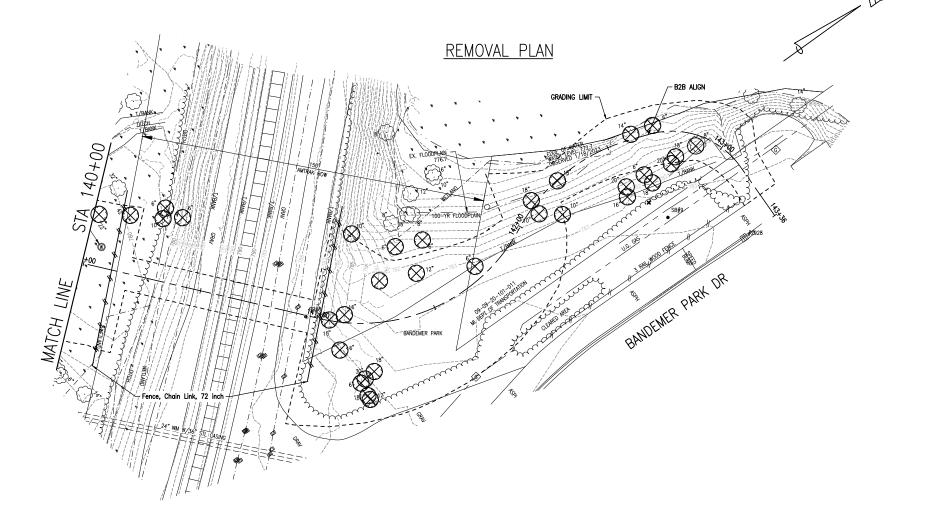


ARCHITECTS ENGINEERS PLANNERS

34000 Plymouth Road
Livonia, MI 48150
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OHM-ADVISORS.COM

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL REMOVAL, GRADING AND EROSION CONTROL PLAN STA ###### TO STA ######

SOIL BORING #8 N 293047.00 E 13291046.00 ELEV 787.46 SOIL BORING #9 N 293194.00 E 13291101.00 ELEV 783.64





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Tree, Rem, 19 inch to 36 inch Tree, Rem, 37 inch or Larger Tree, Rem, 6 inch to 18 inch Fence, Chain Link, 72 inch

**LEGEND** 

Erosion Control, Inlet Protection, Fabric Drop

× Erosion Control, Silt Fence

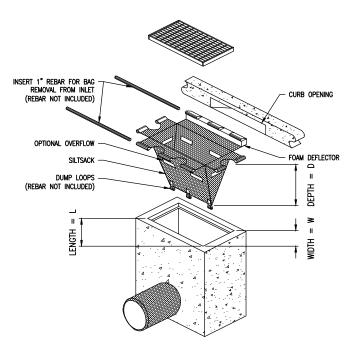
Turf Establishment, Native Seed Mix,

CONCRETE SHARED USE PATH SEE DETAIL SHEET 6

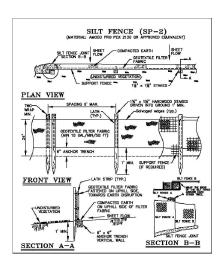
NOTE: Fence, Choin Link, 72 inch to be installed as directed by The Engineer to prevent access to railroad RIGHT-OF-WAY WITHIN THE TREE REMOVAL LIMITS.

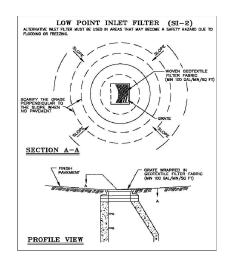
Know what's below.
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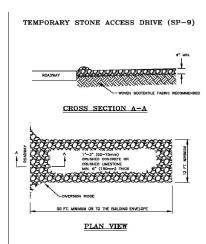
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL REMOVAL, GRADING AND EROSION CONTROL PLAN

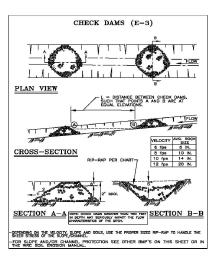


# EROSION CONTROL, INLET PROTECTION, FABRIC DROP NOT TO SCALE









# SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT OF THE STATE OF MICHIGAN, PART 91 OF ACT 451, OF THE PUBLIC ACTS OF 1994 AND THE REQUIREMENTS OF
- THE CITY OF ANN ARBOR.

  THE CONTRACTOR SHALL CONDUCT OPERATIONS IN A MANNER THAT WILL REDUCE ACCELERATED EROSION TO THE PRACTICAL MINIMUM AND PREVENT DAMAGING SILTATION TO EXISTING SEWERS AND WATER COURSES LEADING
- FROM THE WORK SITE.

  THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT THE ENTRY OF FUELS, OILS, BITUMINOUS MATERIALS, CHEMICALS, SEWERAGE OR OTHER HARMFUL MATERIALS INTO NEARBY LAKES AND
- STREAMS.

  4. WASTE DISPOSAL AREAS SHALL BE SELECTED BY THE CONTRACTOR WITH FULL CONSIDERATION OF EROSION AND SEDIMENT CONTROL, SELECTION OF DISPOSAL SITE, AND CONTROL OF OPERATIONS, AND THE RESTORATION OF SAID AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

  5. EXCAVATION FROM THE RIGHT-OF-WAY, CHANNELS, OR OTHER MATERIAL SHALL NOT BE DEPOSITED IN OR NEAR RIVERS, STREAMS OR PONDS WHERE IT MAY ENTER THE WATERWAY.

  6. AT THE COMPLETION OF EACH DAY'S CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE THAT MINIMAL EROSION WILL OCCUR IN TRENCHES AND TO STOCKPILED MATERIALS UNTIL RESUMPTION OF WORK.

- 7. CONTRACTOR SHALL CONFINE OPERATIONS TO THE MINIMUM AMOUNT OF WORKING SPACE PRACTICAL TO MINIMIZE SOIL EROSION.

  8. THE PROJECT WILL BE CONTINUALLY INSPECTED BY THE ENGINEER FOR EROSION CONTROL COMPLIANCE.
- DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY UPON NOTICE OF SUCH DEFICIENCIES.
  FAILURE TO CORRECT THE DEFICIENCIES MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND THERE
  WILL BE NO CONTRACT TIME EXTENSION GRANTED FOR THIS TYPE OF STOPPAGE.
  TEMPORARY SOIL EROSION CONTROL MEASURES CONSISTING OF SIT FENCE, MULCHING, AND TARPING SHALL BE
- IMPLEMENTED THROUGHOUT THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT, AND SHALL BE REMOVED BY THE CONTRACTOR AFTER THE PERMANENT SOIL EROSION MEASURES HAVE BEEN COMPLETED

  10. THE CONTRACTOR SHALL INSPECT SILT FENCE AFTER EACH RAIN EVENT AND REPAIR POSTS AND FABRIC THAT
- HAVE BEEN DAMAGED AT NO ADDITIONAL EXPENSE TO THE OWNER.

  11. STRAW MULCH WITH NETTING TIE DOWN, HIGH VELOCITY MULCH BLANKET OR OTHER APPROVED MULCH SHALL BE PLACED ON DISTURBED SLOPES WHERE DIRECTED BY THE ENGINEER.

  12. PERMANENT SOIL EROSION MEASURES CONSISTING OF A VARIETY OF NATIVE SEED MIXES, TURF GRASS AND
- MULCH BLANKET SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS OF FINAL GRADING. IN THE EVENT IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE AREA DUE TO SITE CONDITIONS AND/OR SEASONAL LIMITATIONS, THE POSSIBLE TO PERMANENTLY STABILIZE THE AREA DUE TO SITE CONDITIONS AND/OR SEASONAL LIMITATIONS, THE TEMPORARY MEASURES SHALL REMAIN IN FORCE AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL, SUCH TIME AS IT IS PRACTICAL TO COMPLETE THE PERMANENT SOIL EROSION CONTROL MEASURES. REFER TO TURF ESTABLISHMENT PROVISION FOR ADDITIONAL DETAILS.

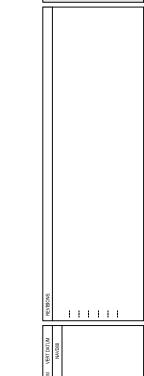
  13. THE ENGINEER SHALL HAVE FULL AUTHORITY TO TEMPORARILY SUSPEND WORK IN THE EVENT THAT ANY OF THE ABOVE REQUIREMENTS ARE NOT BEING MET BY THE CONTRACTOR, OR IF CONDITIONS INDICATE THAT ADDITIONAL TEMPORARY CONTROL MEASURES ARE WARRANTED, IN THE OPINION OF THE ENGINEER.

  14. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL INSTALL INLET FILTERS AT ALL INLETS IN THE CONSTRUCTION AREA PER STANDARD SPECIFICATION DETAIL DRAWING SI-2 AND SI-4, INLET FILTER. ALL OTHER SESS. MEASURES TO BE INDIFFEDRED TO START OF CONSTRUCTION AREA PER STANDARD SPECIFICATION DETAIL DRAWING SI-2 AND SI-4, INLET FILTER. ALL OTHER SESS.

- SESC MEASURES TO BE IN PLACE PRIOR TO START OF CONSTRUCTION

  15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT.
- ALL WORK TO BE COMPLETED WITHIN EXISTING RIGHT-OF-WAY AND/OR EASEMENTS.
   WASHTENAW COUNTY PARKS AND RECREATION COMMISSION TO MAINTAIN PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION OF PROJECT.







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