

**PROJECT DESCRIPTION**

THE PROPOSED PROJECT WILL CONSTRUCT A MULTI-USE TRAIL THROUGHOUT WAX PARK. THE TRAIL WILL BE 8 FEET WIDE AND APPROXIMATELY 1 MILE IN LENGTH.

PROJECT EARTH DISTURBED AREA: 0.78 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.09 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: 0.87 ACRES

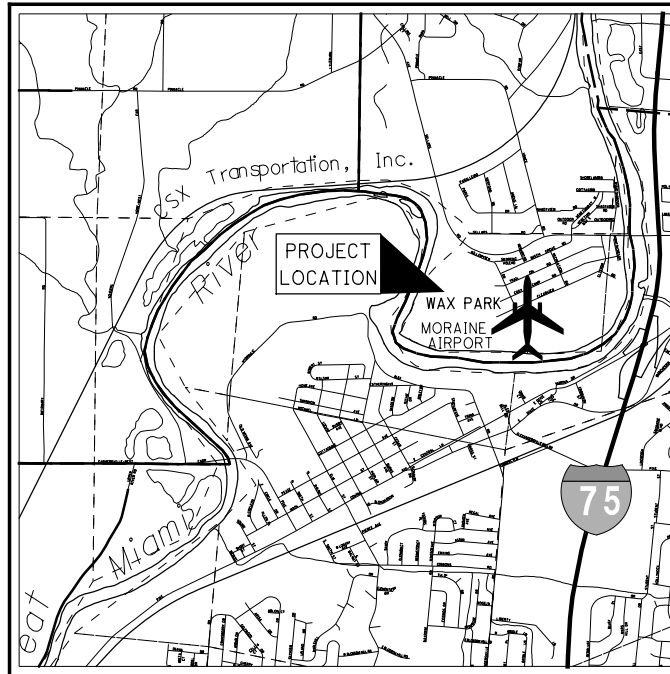
**2016 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

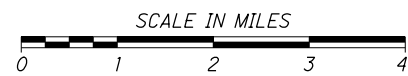
# WAX PARK TRAIL

## CITY OF MORAINES

### MONTGOMERY COUNTY, OHIO



LOCATION MAP



**INDEX OF SHEETS:**

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<b>UNDERGROUND UTILITIES</b>
CONTACT BOTH SERVICES CALL TWO WORKING DAYS <b>BEFORE YOU DIG</b>
CALL <b>1-800-362-2764</b> (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE CALL: <b>1-800-925-0988</b>

PLAN PREPARED BY:



SIGNED: \_\_\_\_\_  
DATE: \_\_\_\_\_

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
					800-2013 4/17/15
					832 1/17/14

APPROVED \_\_\_\_\_  
 DATE \_\_\_\_\_ CITY OF MORAINES



**CURVE 1**  
 P.I.Sta. 101+49.32  
 $\Delta = 60^\circ 19' 27''$  (LT)  
 $Dc = 28^\circ 38' 52''$   
 $R = 200.00'$   
 $T = 116.23'$   
 $L = 210.57'$   
 $E = 31.32'$   
 $C = 200.98'$   
 C.B. = S  $29^\circ 57' 03''$  W

**CURVE 2**  
 P.I.Sta. 103+44.98  
 $\Delta = 22^\circ 54' 33''$  (RT)  
 $Dc = 11^\circ 27' 33''$   
 $R = 500.00'$   
 $T = 101.31'$   
 $L = 199.92'$   
 $E = 10.16'$   
 $C = 198.59'$   
 C.B. = S  $11^\circ 14' 35''$  W

**CURVE 3**  
 P.I.Sta. 117+22.22  
 $\Delta = 120^\circ 43' 52''$  (LT)  
 $Dc = 44^\circ 04' 25''$   
 $R = 130.00'$   
 $T = 228.52'$   
 $L = 273.93'$   
 $E = 132.91'$   
 $C = 225.99'$   
 C.B. = S  $38^\circ 34' 24''$  E

**CURVE 4**  
 P.I.Sta. 108+24.73  
 $\Delta = 16^\circ 52' 07''$  (RT)  
 $Dc = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $T = 22.24'$   
 $L = 44.16'$   
 $E = 1.64'$   
 $C = 44.00'$   
 C.B. = S  $31^\circ 07' 55''$  W

**CURVE 5**  
 P.I.Sta. 108+71.70  
 $\Delta = 18^\circ 57' 54''$  (LT)  
 $Dc = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $T = 25.05'$   
 $L = 49.65'$   
 $E = 2.08'$   
 $C = 49.42'$   
 C.B. = S  $30^\circ 05' 01''$  W

**CURVE 6**  
 P.I.Sta. 109+60.75  
 $\Delta = 18^\circ 07' 37''$  (LT)  
 $Dc = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $T = 23.93'$   
 $L = 47.46'$   
 $E = 1.90'$   
 $C = 47.26'$   
 C.B. = S  $10^\circ 36' 32''$  W

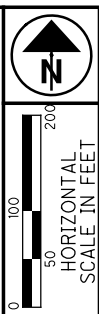
**CURVE 7**  
 P.I.Sta. 110+11.06  
 $\Delta = 20^\circ 14' 48''$  (RT)  
 $Dc = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $T = 26.78'$   
 $L = 53.01'$   
 $E = 2.37'$   
 $C = 52.73'$   
 C.B. = S  $11^\circ 40' 08''$  W

**CURVE 8**  
 P.I.Sta. 132+08.09  
 $\Delta = 104^\circ 39' 09''$  (LT)  
 $Dc = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 129.51'$   
 $L = 182.65'$   
 $E = 63.62'$   
 $C = 158.30'$   
 C.B. = N  $29^\circ 01' 03''$  E

**CURVE 9**  
 P.I.Sta. 136+52.30  
 $\Delta = 67^\circ 15' 58''$  (LT)  
 $Dc = 22^\circ 55' 06''$   
 $R = 250.00'$   
 $T = 166.31'$   
 $L = 293.50'$   
 $E = 50.26'$   
 $C = 276.94'$   
 C.B. = N  $56^\circ 56' 31''$  W

**CURVE 10**  
 P.I.Sta. 138+32.02  
 $\Delta = 23^\circ 43' 50''$  (RT)  
 $Dc = 22^\circ 55' 06''$   
 $R = 250.00'$   
 $T = 52.53'$   
 $L = 103.54'$   
 $E = 5.46'$   
 $C = 102.81'$   
 C.B. = N  $78^\circ 42' 35''$  W

**CURVE 11**  
 P.I.Sta. 141+22.71  
 $\Delta = 3^\circ 50' 39''$  (LT)  
 $Dc = 11^\circ 27' 33''$   
 $R = 500.00'$   
 $T = 16.78'$   
 $L = 33.55'$   
 $E = 0.28'$   
 $C = 33.54'$   
 C.B. = N  $68^\circ 45' 59''$  W



**SCHEMATIC PLAN**

**WAX PARK TRAIL**

**STANDARDS**

STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, AS IDENTIFIED ON THE COVER SHEET, SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT, EXCEPT WHERE SPECIFICALLY MODIFIED BY THE CITY OF MORAINÉ STANDARDS.

**CONSTRUCTION SCHEDULE**

THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR APPROVAL A DETAILED SCHEDULE OF CONSTRUCTION ACTIVITIES AND ANTICIPATED LANE CLOSURES/ MAINTENANCE OF TRAFFIC SETUPS WITHIN FOURTEEN (14) CALENDAR DAYS OF THE NOTICE TO PROCEED.

**STORAGE OF CONSTRUCTION MATERIAL**

THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF THE OWNER AND/OR ENGINEER FOR THE LOCATIONS TO BE USED FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIAL, TOOLS AND/OR MACHINERY. ALL SUCH MATERIALS, TOOLS AND MACHINERY SHALL BE NEATLY AND COMPACTLY PILED IN SUCH A MANNER AS TO CAUSE THE LEAST INCONVENIENCE TO THE PROPERTY OWNERS AND TO TRAFFIC. UNDER NO CIRCUMSTANCES SHALL EXISTING DRAINAGE COURSES BE BLOCKED OR WATER HYDRANTS, VALVES OR METER PITS COVERED.

**UNDERGROUND UTILITIES**

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 O.R.C.

EXISTING UNDERGROUND UTILITIES AND SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST INFORMATION AVAILABLE.

THE LOCATIONS SHOWN ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A. CONTACTING THE INDIVIDUAL UTILITY OWNERS AND NOTIFYING O.U.P.S. PRIOR TO CONSTRUCTION AND ADVISING THEM OF WORK TO TAKE PLACE.
- B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
- C. EXCAVATION AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY
- D. ALL DAMAGE TO ANY EXISTING UTILITY.

**RESTORATION**

ALL UTILITIES, DRAINAGE, AND ANY STRUCTURES DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN KIND. ALL STREET SURFACES, DRIVEWAYS AND PAVEMENT AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN KIND OR IN ACCORDANCE WITH THE CITY OF MORAINÉ STANDARDS.

**CONSTRUCTION LAYOUT**

CONTRACTOR SHALL USE THE DIMENSIONS AND CURVE DATA PROVIDED ON THE SCHEMATIC PLAN FOR TRAIL LAYOUT AS SHOWN ON SHEET 2. FIELD SURVEY WAS NOT PERFORMED FOR THIS PROJECT. CONTRACTOR SHALL USE THE EXISTING TRAIL AND SIDEWALK AT STA. 142+33.38 FOR HORIZONTAL AND VERTICAL CONTROL.

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDING AREAS: 659, SEEDING AND MULCHING 4206 SQ. YD. SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF THE EXPOSED SOIL WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. ALL AREAS OF SEEDING AND MULCHING SHALL COMPLY WITH ODOT SPECIFICATION 659.

**CONSTRUCTION LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY.

**CLEARING AND GRUBBING, AS PER PLAN**

CLEARING AND GRUBBING SHALL INCLUDE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, AS WELL AS WOODED AREAS REQUIRING CLEARING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY THE EXISTING CONDITIONS. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING. NO ADDITIONAL PAYMENT BEYOND THE LUMP SUM BID SHALL BE ALLOWED.

**SUBGRADE COMPACTION AND PROOF ROLLING (ALLOWANCE)**

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE, ONLY IF AUTHORIZED BY THE CITY OF MORAINÉ AND/OR THE ENGINEER:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. PLACE GEOTEXTILE FABRIC AT THE BOTTOM OF THE EXCAVATION PRIOR TO REPLACING WITH GRANULAR EMBANKMENT. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-7-5, AND SOIL WITH A LIQUID LIMITS GREATER THAN 65) AND ANY COAL SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.
3. COMPACT THE SUBGRADE ACCORDING TO 204.03.
4. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS. PLACE GEOTEXTILE FABRIC AT THE BOTTOM OF THE EXCAVATION PRIOR TO REPLACING WITH GRANULAR EMBANKMENT.
- PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. PLACE GEOTEXTILE FABRIC AT THE BOTTOM OF THE EXCAVATION PRIOR TO REPLACING WITH GRANULAR EMBANKMENT.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.6 TO VERIFY STABILITY. PLACE GEOTEXTILE FABRIC AT THE BOTTOM OF THE EXCAVATION PRIOR TO REPLACING WITH GRANULAR EMBANKMENT.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.
8. ANY UTILITY EXPOSED DUE TO UNDERCUTTING OPERATIONS SHALL BE BRACED AND SUPPORTED IN ACCORDANCE WITH AND UNDER THE DIRECT SUPERVISION OF THE RESPECTIVE UTILITY COMPANY. A ALLOWANCE ITEM HAS BEEN INCLUDED UNIT PRICE BID FOR ITEM 204 EXCAVATION OF SUBGRADE FOR THE 100 CY.

**PROOF ROLLING**

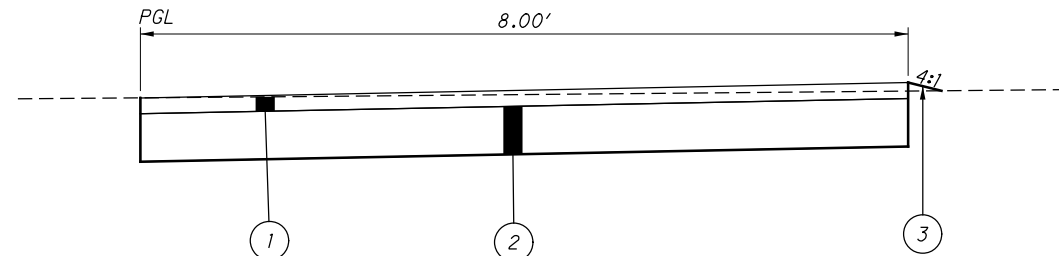
THE FOLLOWING QUANTITY IS PROVIDE IN THE GENERAL SUMMARY TO ADDRESS LOCATION REQUIRING PROOF ROLLING ITEM 204, PROOF ROLLING, 2 HOUR.

**TOP SOIL STOCKPILED**

IN ADDITION TO THE REQUIREMENTS OF ITEM 651, THE CONTRACTOR SHALL STOCKPILE TOPSOIL FOR REUSE ON SITE. ANY TOPSOIL NOT REUSED ON SITE SHALL BE DISPOSED BY CONTRACTOR. COST OF REMOVAL, STOCKPILING AND DISPOSAL SHALL BE MADE UNDER THE PER CU YD PRICE BID FOR ITEM 651 TOPSOIL STOCKPILED. THE CONTRACTOR HAS THE OPTION TO REMOVE ALL TOPSOIL FROM THE SITE AND BRING IN NEW TOPSOIL FOR RESTORATION. NO ADDITIONAL PAYMENT WILL BE MADE.

**12" CONDUIT, TYPE B (ALLOWANCE)**

A QUANTITY OF 50 FEET HAS BEEN INCLUDED. INSTALLATION OF PIPE SHALL BE AS NEEDED AND AS DIRECTED BY CITY OF MORAINÉ AND/OR ENGINEER.



TYPICAL SECTION

- ① ITEM 448 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, ASPHALT
- ② ITEM 304 - 6" COMPACTED LIMESTONE BASE
- ③ ITEM 658 - SEEDING AND MULCHING

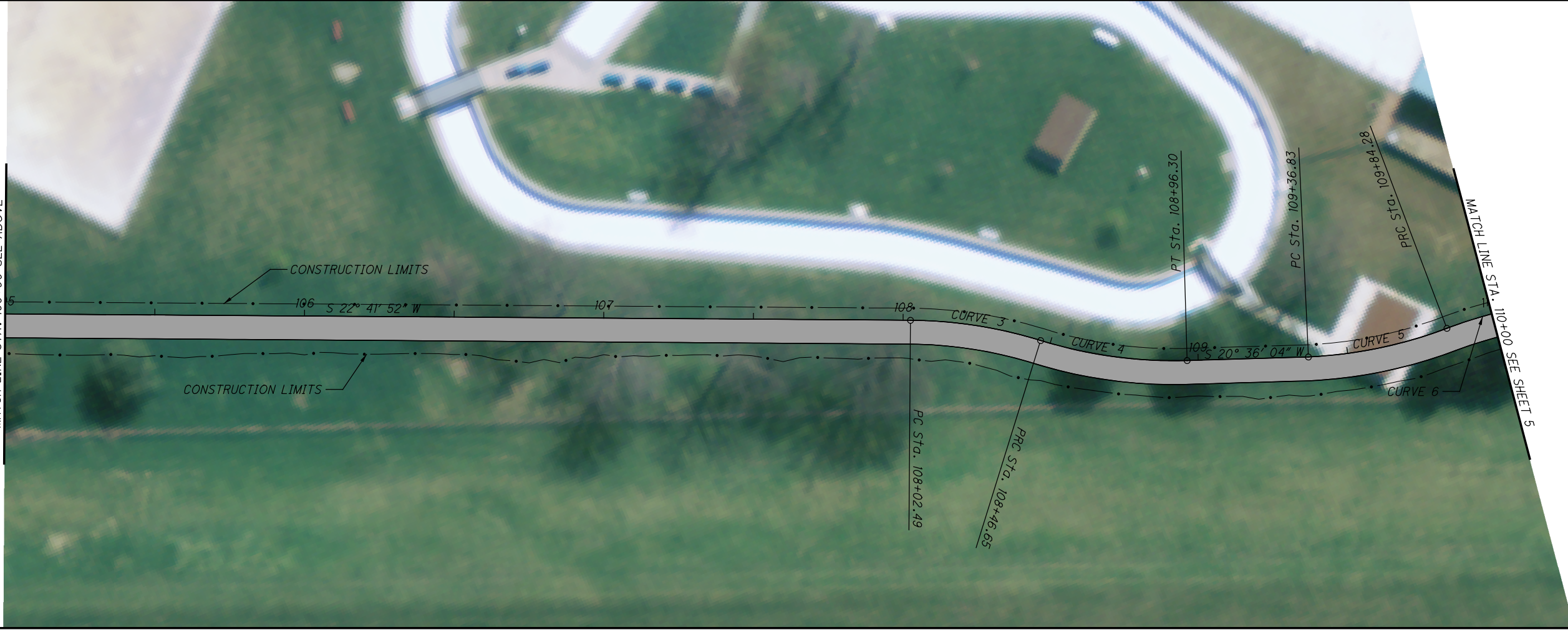
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CALCULATED  
LDW  
CHECKED  
SRI

GENERAL NOTES

WAX PARK TRAIL

3  
8





MATCH LINE STA. 125+00 SEE ABOVE

MATCH LINE STA. 120+00 SEE SHEET 5



MATCH LINE STA. 130+00 SEE SHEET 7

MATCH LINE STA. 125+00 SEE BELOW



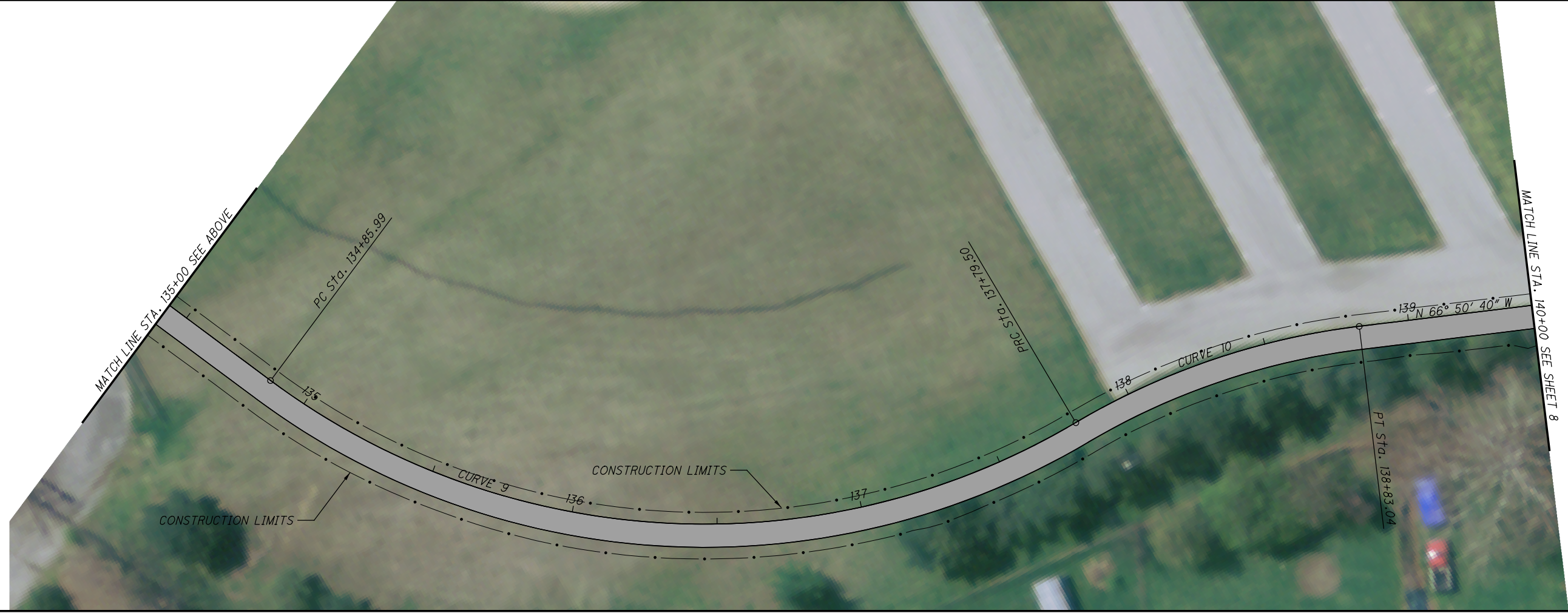
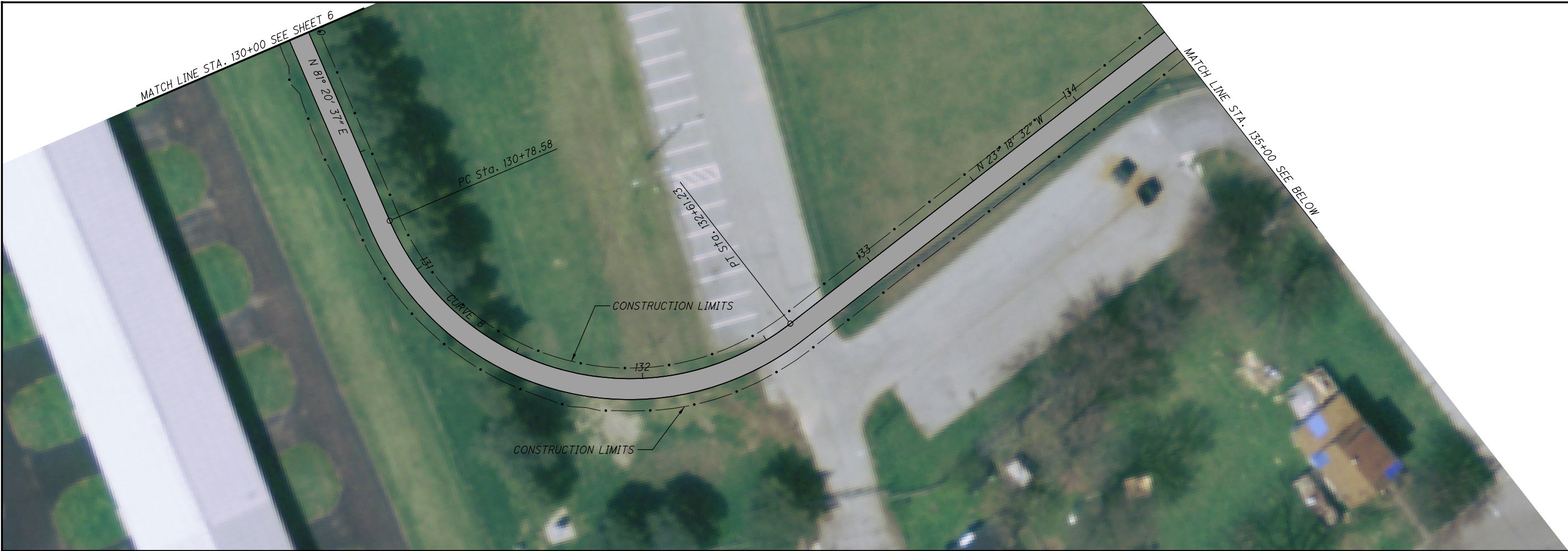
**WAX PARK TRAIL**

**PLAN SHEET  
STA. 120+00 TO STA. 130+00**

CALCULATED
LDW
CHECKED
SRI



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CALCULATED	LDW	CHECKED	SRI

0 20 40  
HORIZONTAL SCALE IN FEET

**PLAN SHEET**  
**STA. 130+00 TO STA. 140+00**

**WAX PARK TRAIL**

MATCH LINE STA. 140+00 SEE SHEET 7



WAX PARK TRAIL

PLAN SHEET  
STA. 140+00 TO STA. 142+33.38

CALCULATED	LDW
CHECKED	SRI

