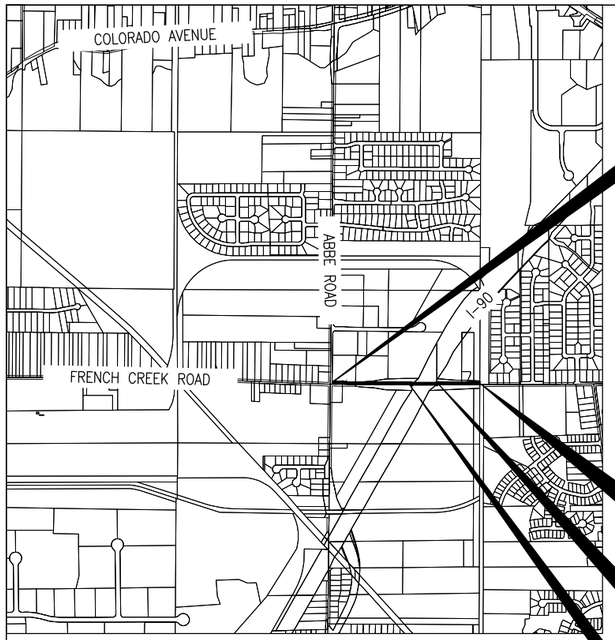
PID# 115433 FAN#E220497



BEGIN PROJECT
STA 0+00

END PROJECT
STA 24+37

RESUME PROJECT
STA 17+61.42

SUSPEND PROJECT
STA 12+78.38

LATITUDE: 41°44'N LONGITUDE: 82°07'W

SCALE IN FEET
0 1250 2500 5000 7500

N

SHEFFIELD VILLAGE
LORAIN COUNTY
METROPOLITAN PARK DISTRICT
LOR CR 0606 09.50
FRENCH CREEK
LORAIN COUNTY

INDEX OF SHEETS:

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PROJECT DESCRIPTION

THE FRENCH CREEK BIKEWAY PROJECT CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 0.46 MILES OF SHARED USE PATH ALONG FRENCH CREEK ROAD IN THE VILLAGE OF SHEFFIELD. THE BIKEWAY HAS AN EAST WEST ORIENTATION BEGINNING AT ABBE ROAD AND HEADING EAST TO SHEFFIELD/AVON MUNICIPAL BOUNDARY.

PROJECT EARTH DISTURBED AREA:	1.64 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.2 ACRES
NOTICE OF INTENT (NOI) EARTH DISTURBED AREA:	1.84 ACRES

2023 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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

DESIGN DESIGNATION

DESIGN SPEED: 12 MPH
DESIGN FUNCTIONAL CLASSIFICATION: SHARED USE PATH

DESIGN EXCEPTIONS: NONE

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
DM-1.1	7/17/2020	MGS-4.3	1/18/2013	800	7/19/2024
DM-1.2	7/16/2021	MGS-5.2/5.3	7/15/2016	813	7/21/2023
DM-4.3	1/15/2016			814	7/15/2016
DM-4.4	1/15/2016	TC-41.20	10/18/2013	823	10/20/2023
BP-1.1	7/28/2000	TC-41.30	4/21/2023	832	7/19/2024
BP-2.1	1/21/2022	TC-52.10	10/18/2013	836	1/19/2024
BP-2.2	1/15/2021	TC-52.20	1/15/2021	851	7/19/2024
BP-2.3	7/18/2014	TC-71.10	4/21/2023		
BP-2.4	7/19/2013				
BP-2.5	7/19/2024	MT-97.12	1/20/2017		
BP-3.1	1/19/2024	MT-99.30	1/17/2020		
BP-4.1	7/19/2013	MT-101.90	7/17/2020		
BP-5.1	1/21/2022	MT-105.10	1/17/2020		
BP-7.1	7/19/2024	MT-110.10	7/19/2013		
MGS-1.1	7/21/2021				
MGS-2.1	1/19/2018	LA-1.1	10/15/2010		
MGS-4.1	1/20/2017	LA-1.2	7/19/2024		
MGS-4.2	7/19/2013	RM-5.2	7/21/2023		

APPROVED BY:

JOHN D. HUNTER, MAYOR, SHEFFIELD VILLAGE DATE

JAMES ZIEMNIK, LORAIN COUNTY METROPARKS DIRECTOR DATE 12/5/22

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

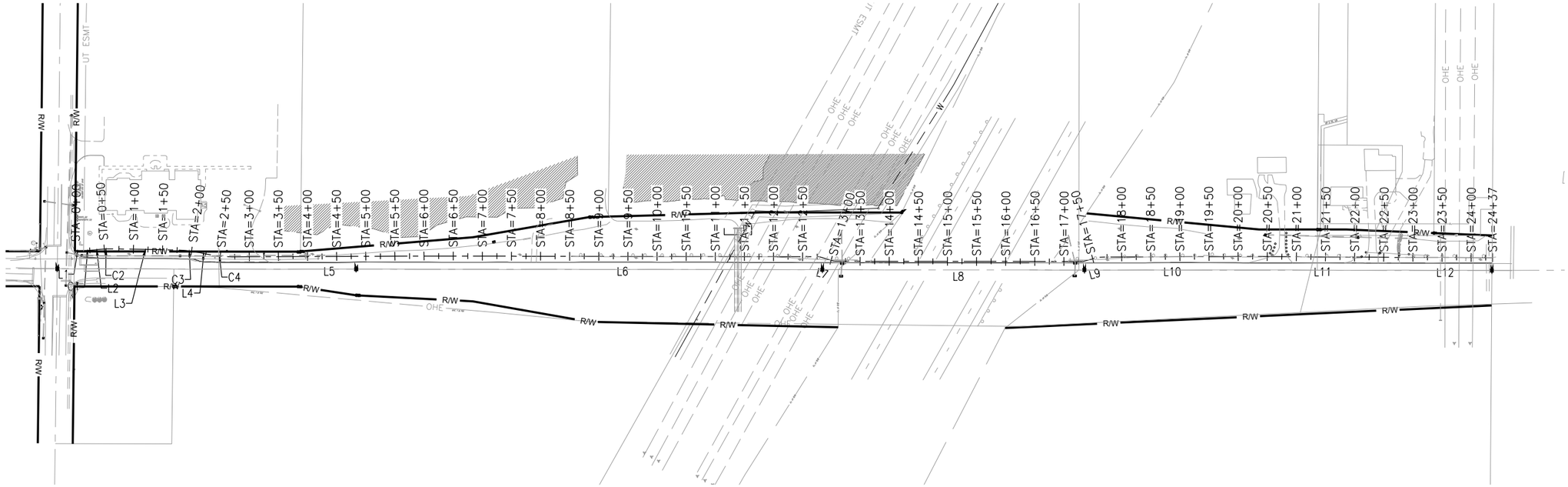
PLANS PREPARED BY:
behnke LANDSCAPE ARCHITECTURE
1215-B West 10th Street
Cleveland, Ohio 44113-1291
P: 216.589.9100 F: 216.589.8560
W: www.behnkela.com
E: info@behnkela.com

LANDSCAPE ARCHITECT'S SEAL:
STATE OF OHIO KNOPP 662 REGISTERED LANDSCAPE ARCHITECTS
SIGNED: P. Scot Knopp
DATE: 11/1/2022

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

LOR-FRENCH CREEK BIKEWAY

34" x 22"



TRAIL CENTERLINE – LINE TABLE			WESTERLY COORDINATE	EASTERLY COORDINATE
LINE #	LENGTH	DIRECTION		
L1	8.52'	S88° 58' 30.50"E	N:649866.19 E:2084775.46	N:649866.03 E:2084783.97
L2	6.34'	N83° 46' 20.88"E	N: 649867.18 E: 2084809.24	N: 649867.87 E: 2084815.54
L3	110.59'	S88° 58' 30.50"E	N: 649869.02 E: 2084840.82	N: 649867.04 E: 2084951.39
L4	10.55'	S77° 33' 45.15"E	N: 649862.38 E: 2084990.89	N: 649860.11 E: 2085001.19
L5	333.60'	N89° 45' 59.69"E	N: 649855.42 E: 2085045.08	N: 649856.77 E: 2085378.67
L6	674.01'	S89° 53' 37.14"E	N: 649856.77 E: 2085378.67	N: 649855.52 E: 2086052.68
L7	26.89'	S73° 31' 19.51"E	N: 649855.52 E: 2086052.68	N: 649847.90 E: 2086078.46
L8	427.17'	S89° 56' 09.64"E	N: 649847.90 E: 2086078.46	N: 649847.42 E: 2086505.63
L9	29.04'	N75° 14' 23.97"E	N: 649847.42 E: 2086505.63	N: 649854.82 E: 2086533.71
L10	251.50'	N89° 42' 57.53"E	N: 649854.82 E: 2086533.71	N: 649856.06 E: 2086785.20
L11	262.33'	S89° 39' 00.33"E	N: 649856.06 E: 2086785.20	N: 649854.46 E: 2087047.53
L12	161.53'	S89° 50' 40.47"E	N: 649854.46 E: 2087047.53	N: 649854.02 E: 2087209.05

TRAIL CENTERLINE – CURVE TABLE					
CURVE #	RADIUS	PI LOCATION	CHORD DIRECTION	START STATION	END STATION
C1	200.00'	N: 649865.81, E: 2084796.64	N87° 23' 55.19"E	0+08.52	0+33.83
C2	200.00'	N: 649869.25, E: 2084828.14	N87° 23' 55.19"E	0+40.17	0+65.49
C3	200.00'	N: 649866.68, E: 2084971.37	S83° 16' 07.83"E	1+76.08	2+15.91
C4	200.00'	N: 649855.32, E: 2085022.87	S83° 53' 52.73"E	2+26.46	2+70.69

NOTE:
SEE RIGHT OF WAY DRAWINGS FOR PROJECT CONTROL POINT INFORMATION TABLE.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED | CHECKED

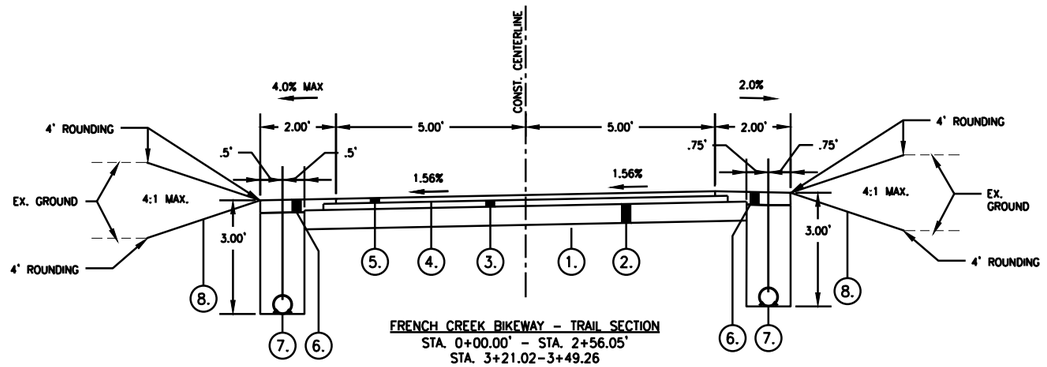
SCHEMATIC PLAN

LOR-FRENCH CREEK BIKEWAY

2
42

1" 0.5" 0

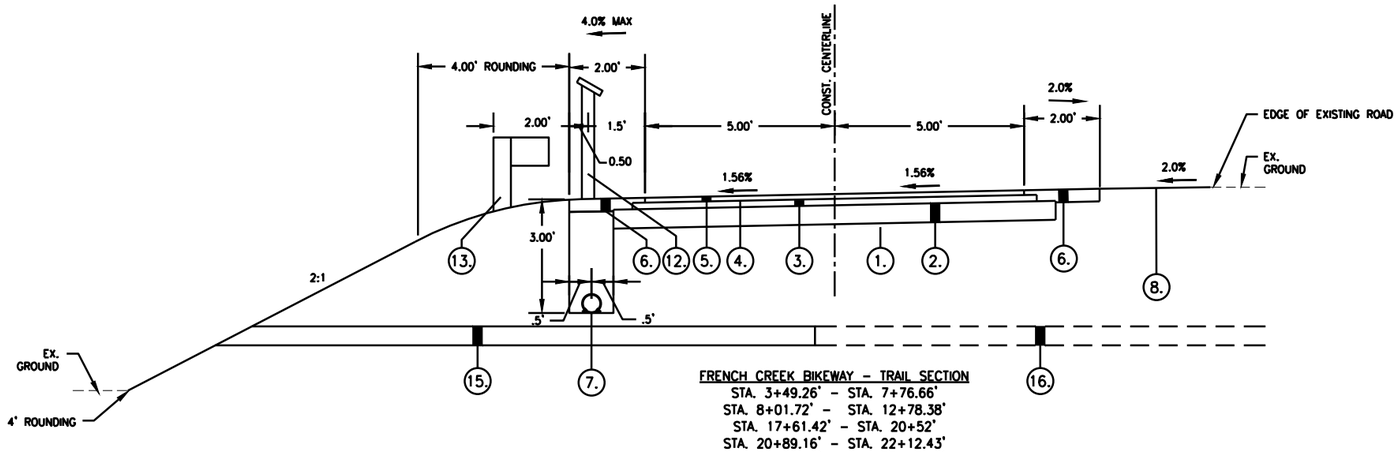
34" x 22"



FRENCH CREEK BIKEWAY – TRAIL SECTION
STA. 0+00.00' – STA. 2+56.05'
STA. 3+21.02–3+49.26
=284.29' TOTAL

NOTE:
TRANSITION CROSS–SLOPE NORTH PITCH TO SOUTH PITCH FROM STA. 2+46 TO 2+56. TRANSITION BACK TO NORTH PITCH FROM STA. 3+21 TO 3+31.

SEE SPECIAL BENCHING SECTION ON SHEET 4



FRENCH CREEK BIKEWAY – TRAIL SECTION
STA. 3+49.26' – STA. 7+76.66'
STA. 8+01.72' – STA. 12+78.38'
STA. 17+61.42' – STA. 20+52'
STA. 20+89.16' – STA. 22+12.43'
STA. 22+82.58' – STA. 24+36.74'
=1472.07' TOTAL

SEE SPECIAL BENCHING SECTION ON SHEET 4

LEGEND

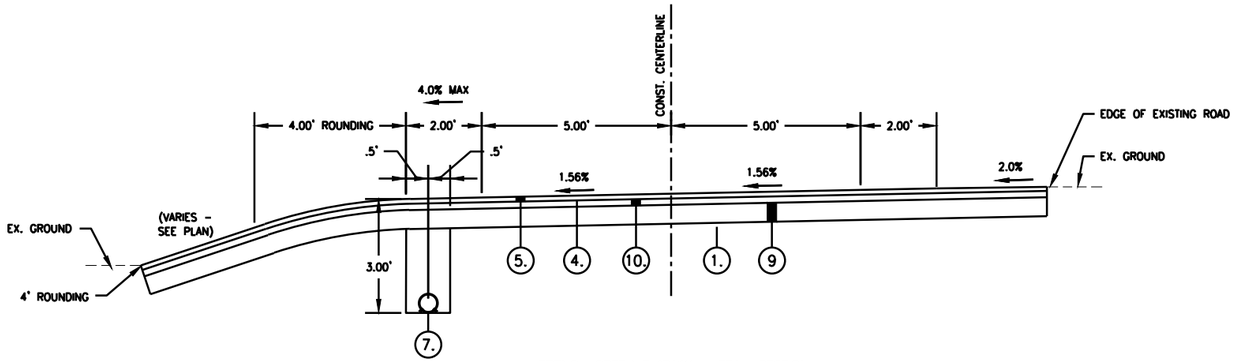
1. ITEM 204 – SUBGRADE COMPACTION, A.P.P.
2. ITEM 304 – AGGREGATE BASE, A.P.P. (6")
3. ITEM 441 – ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, A.P.P. (2–1/2")
4. ITEM 407 – TACK COAT, 702.13 (.05 GALS/SY)
5. ITEM 441 – ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, A.P.P. (1–1/2")
6. ITEM 410 – TRAFFIC COMPACTED SURFACE, TYPE B, A.P.P. (4")
7. ITEM 605 – 6" SHALLOW PIPE UNDERDRAINS, A.P.P.
8. ITEM 659 – SEEDING AND MULCHING, CLASS 1, A.P.P.
9. ITEM 304 – AGGREGATE BASE, A.P.P. (10")
10. ITEM 441 – ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, A.P.P. (3")
11. ITEM 451 – 8" NON–REINFORCED CONCRETE PAVEMENT, A.P.P.
12. ITEM SPECIAL MISC.: BIKEWAY RAILING (WHERE INDICATED ON PLAN)
13. ITEM 606– GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN OR ITEM 606– GUARDRAIL, REBUILT, TYPE MGS, AS PER PLAN (WHERE INDICATED ON PLAN)
14. ITEM 608– 6" CONCRETE WALK
15. ITEM 605– AGGREGATE DRAINS A.P.P.
16. EXISTING AGGREGATE DRAINS PER RECORD DWGS.

CALCULATED DS
CHECKED JK

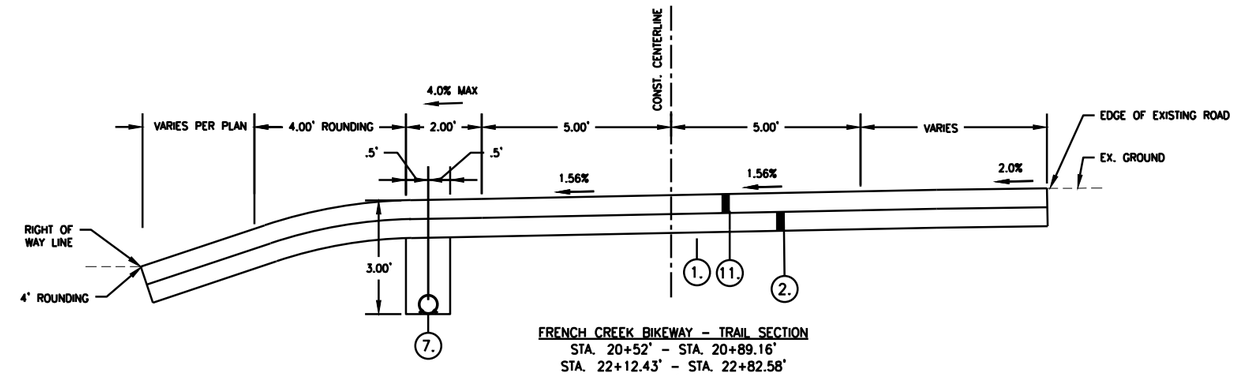
TYPICAL SECTIONS

LOR-FRENCH CREEK BIKEWAY

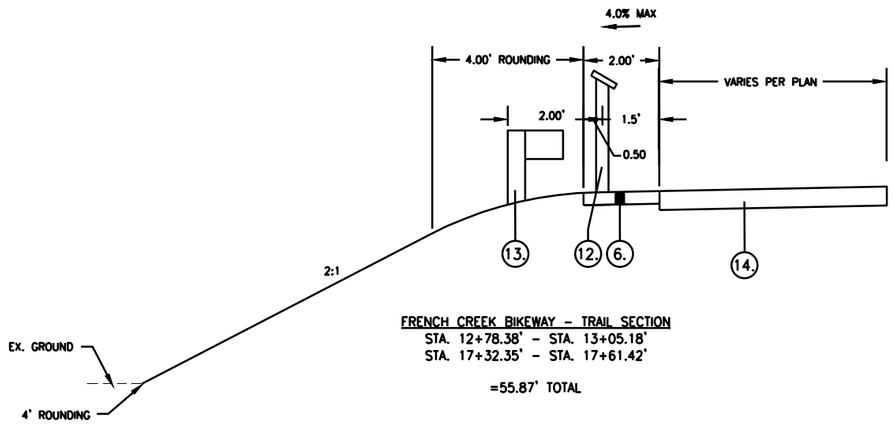
34" x 22"



FRENCH CREEK BIKEWAY - TRAIL SECTION
STA. 7+76.66' - STA. 8+01.72'
=25.06' TOTAL

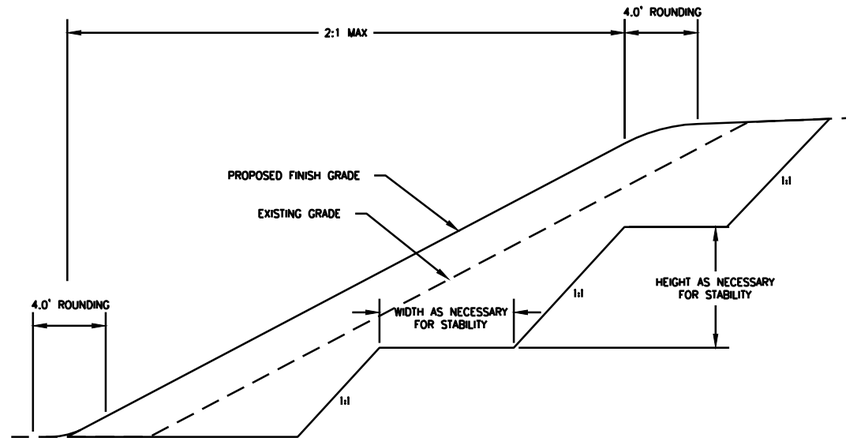


FRENCH CREEK BIKEWAY - TRAIL SECTION
STA. 20+52' - STA. 20+89.16'
STA. 22+12.43' - STA. 22+82.58'
=107.31' TOTAL



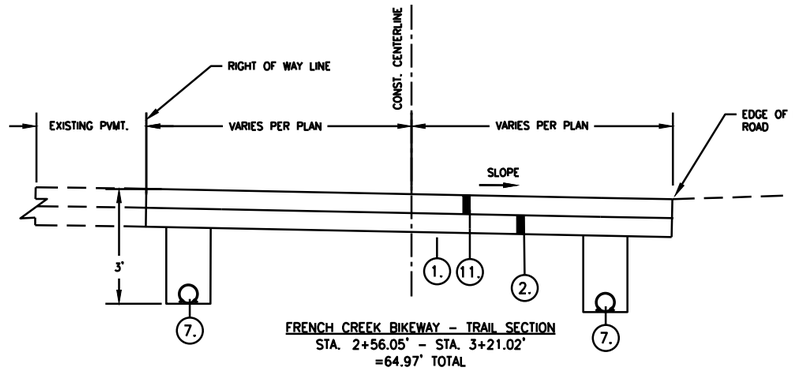
FRENCH CREEK BIKEWAY - TRAIL SECTION
STA. 12+78.38' - STA. 13+05.18'
STA. 17+32.35' - STA. 17+61.42'

=55.87' TOTAL



FRENCH CREEK BIKEWAY - SPECIAL BENCHING
STA. 3+49.26' - STA. 13+05.18'
STA. 17+32.35' - STA. 24+36.74'

=1660.31' TOTAL



FRENCH CREEK BIKEWAY - TRAIL SECTION
STA. 2+56.05' - STA. 3+21.02'
=64.97' TOTAL

NOTE: TRANSITION CROSS-SLOPE NORTH PITCH TO SOUTH PITCH FROM STA 2+46 TO 2+56. TRANSITION BACK TO NORTH PITCH FROM STAT 3+21 TO 3+31.

LEGEND

1. ITEM 204 - SUBGRADE COMPACTION, A.P.P.
2. ITEM 304 - AGGREGATE BASE, A.P.P. (6")
3. ITEM 441 - ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, A.P.P. (2-1/2")
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15. ITEM 605- AGGREGATE DRAINS A.P.P.
16. EXISTING AGGREGATE DRAINS PER RECORD DWGS.

CALCULATED DS CHECKED JK

TYPICAL SECTIONS

LOR-FRENCH CREEK BIKEWAY

0 0.5" 1"

34" x 22"

GENERAL

ROUNDING
THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIY SERVICE CONTACTS
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

OHIO EDISON CO. (DISTRIBUTION)
CHAD HAMPSON
6326 LAKE AVENUE
ELYRIA, OHIO 44035
330-716-6757
HAMPSONC@FIRSTENERGYCORP.COM

OHIO EDISON CO. (TRANSMISSION)
GUSTAVO MARTINEZ, SUPERVISOR
76 SOUTH MAIN STREET
AKRON, OHIO 44308
330-805-3042
GMARTINEZ@FIRSTENERGYCORP.COM

BRIGHTSPEED
STEPHEN WALEND
203 W. 9th ST.,
LORAIN, OH 44052
PHONE: 440-244-8423
EMAIL: STEPHEN.WALEND@LUMEN.COM

SHEFFIELD VILLAGE WATER/SERVICE DEPARTMENT
4480 COLORADO AVENUE
SHEFFIELD VILLAGE, OH 44054
EMAIL: KENK@SHEFFIELDVILLAGE.COM
ATTN: KEN KACZAY PHONE 440-949-6210
EMAIL: KIMA@SHEFFIELDVILLAGE.COM
ATTN: KIM ACKERMAN PHONE 440-949-6210

RURAL LORAIN COUNTY WATER AUTHORITY
42401 S.R. 303
LAGRANGE, OH 44050
PHONE: 440-355-5121
EMAIL: JDEMCZYK@RLCWA.COM
ATTN: JOE DEMCZYK

BREEZELINE
JOSE DIAZ
CONSTRUCTION COORDINATOR
105 BLAZE INDUSTRIAL PKWY
BEREA, OH 44017
385-3901
JDIAZ@BREEZELINE.COM

COLUMBIA GAS CO.
ADAM WOODIE
3101 NORTH RIDGE ROAD, EAST
LORAIN, OH 44055
PHONE: 440-240-6144
EMAIL: AWOODIE@NISOURCE.COM

CHARTER COMMUNICATIONS
JOSHUA CURTIS
576 TERNES AVENUE
ELYRIA, OH 44035
PHONE: 440-974-3209
EMAIL: JOSHUA.CURTIS@CHARTER.COM

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

ALL UTILITIES SHALL REMAIN OPERABLE AND IN PLACE DURING CONSTRUCTION AND ALL CONDUCTORS (TWO EXISTING 345 KV TRANSMISSION LINES AND 12.5 KV DISTRIBUTION LINES) SHALL REMAIN IN PLACE AND ENERGIZED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW AND MAINTAIN ALL OSHA REQUIRED CLEARANCES WHEN WORKING NEAR OVERHEAD WIRES. THE OVERHEAD WIRES SHOULD BE CONSIDERED ENERGIZED AT ALL TIMES.

EXISTING PLANS
EXISTING PLANS ENTITLED LOR-90-17.21 AND LOR-90-17.53 MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND.

CONSTRUCTION NOISE
ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS
PROJECT CONTROL WAS ESTABLISHED BY GPS OBSERVATIONS MADE WITH TIES TO ODOT VIRTUAL REFERENCE SYSTEM

VERTICAL POSITIONING
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD 88), (GEOID 12)

HORIZONTAL POSITIONING
HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2011 (NAD83(2011)), AND THE GRS80 ELLIPSOID.

COMBINED SCALE FACTOR: 1.0000682 (UNITLESS CONVERSION GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: X= 00.000, Y= 00.000

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH ODOT ITEM 623.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND AS PER ODOT GB2-SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF ITEM 203.

WORK LIMITS
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY AND ADJACENT PRIVATELY OWNED LANDSCAPING

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR ODOT.

ANY PROPERTY USED OUTSIDE OF THE R/W MUST BE DONE IN ACCORDANCE WITH ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ANY COST ASSOCIATED WITH THESE REVIEWS SHALL BE INCIDENTAL TO ITEM 624 MOBILIZATION A.P.P.

FENCE AND GUARDRAIL LENGTHS
THE LENGTH OF FENCE AND GUARDRAIL SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES SHALL BE IN ACCORDANCE WITH ITEM 607.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL
ONLY EXISTING GUARDRAIL SHALL BE CUT, DRILLED OR PUNCHED WHEN SPICING PROPOSED GUARDRAIL TO EXISTING GUARDRAIL. CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M180. TRANSITIONS BETWEEN DIFFERING HEIGHTS OF GUARDRAIL SHALL BE MADE OVER A LENGTH OF 25'. PAYMENT SHALL BE INCIDENTAL TO THE GUARDRAIL ITEMS.

ENVIRONMENTAL COMMITMENTS:

1. THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 201 CLEARING AND GRUBBING, AS PER PLAN
CLEAR AND GRUB ALL MARKED TREES, SHRUBS AND STUMPS WITHIN THE CONSTRUCTION LIMITS AS WELL AS ALL UNMARKED TREES, SHRUBS AND STUMPS AND ALL OTHER VEGETATION WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201. TREES SHALL ONLY BE CLEARED IN ACCORDANCE WITH TREE REMOVAL RESTRICTION. PRUNE ALL TREES AND/OR SHRUBS WITHIN THE 10' VERTICAL CLEARANCE OF THE TRAIL.

ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE MUST BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714.

ITEM 202 GUARDRAIL REMOVED, AS PER PLAN

EXISTING GUARDRAIL AND POSTS ARE TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ITEM 202 WITH THE EXCEPTION THAT SOME GUARDRAIL WILL BE REMOVED ACCORDING TO ITEM 202 GUARDRAIL REMOVED FOR REUSE, AS PER PLAN - SEE NOTE THIS SHEET. IN NO CASE ARE EXISTING BRIDGE TERMINAL ASSEMBLIES (APPROXIMATELY 27' PER EACH) TO BE DISTURBED.

ITEM 202 GUARDRAIL REMOVED FOR REUSE, AS PER PLAN

APPROXIMATELY 115'+/- ON WEST END OF BRIDGE AND 110'+/- ON EAST END OF BRIDGE THAT WAS RECENTLY INSTALLED AS PART OF PROJECT 81933 LOR IR090-17.53 IN 2015. THESE RAILS AND POSTS SHOULD BE CAREFULLY REMOVED AND REUSED AS PART OF THIS PROJECT. REPLACE ANY PORTIONS OF REUSED MATERIAL THAT ARE DEFECTIVE OR CORRODED INCLUDING POSTS, RAIL, AND HARDWARE. REINSTALL SALVAGED GUARDRAIL AND POSTS AS PART OF ITEM 606 GUARD RAIL REBUILT. IN NO CASE ARE EXISTING BRIDGE TERMINAL ASSEMBLIES (APPROXIMATELY 27' PER EACH) TO BE DISTURBED.

ITEM 202- GATE REMOVED, AS PER PLAN
WORK SHALL INCLUDE REMOVING AND/OR RELOCATING ANY REMAINING POSTS, FOOTINGS, GATES, CHAINS, SIGNS ETC. THAT REMAIN WITHIN THE RIGHT OF WAY. COORDINATE REMOVAL/RELOCATION OF EXISTING ENCROACHMENTS WITH LAND OWNER.

ITEM 203 BORROW AS PER PLAN

IF UNSUITABLE OR UNSTABLE SUBGRADE SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED ROADBED AFTER DESIGN SUBGRADE HAS BEEN REACHED, THEN 1) IT SHALL BE EXCAVATED TO A DEPTH OF 12" AND REMOVED FROM THE SITE, 2) A GEOTEXTILE MEETING ODOT 712.09 GEOTEXTILE FABRIC TYPE D INSTALLED, AND 3) BACKFILLED WITH 12" OF 100% CRUSHED LIMESTONE MEETING ITEM 304. THE LOCATION AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER. COST SHALL INCLUDE EXCAVATION AND REMOVAL OF SAME FROM SITE.

ITEM 203, BORROW APP 1,000 TONS

ITEM 203 ROADWAY EXCAVATION AND EMBANKMENT, A.P.P.

THIS ITEM CONSISTS OF EXCAVATION, BORROW AND EMBANKMENT AS PER ITEM 203 CMS EXCEPT AS MODIFIED HEREIN. CONTACT OUPS AT (800) 362-2764 PRIOR TO PERFORMING ANY EARTHWORK. EXCAVATION AND EMBANKMENT INCLUDES EARTHWORK REQUIRED TO OBTAIN SUBGRADE ELEVATIONS SHOWN IN THE DRAWINGS.

PRIOR TO ANY EXCAVATION OR EMBANKMENT, EXISTING TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON-SITE WITHIN THE LIMIT OF WORK IN CONFORMANCE WITH ITEM 651 TOPSOIL STOCKPILED, AS PER PLAN. EXCESS TOPSOIL OR EXCAVATED MATERIAL THAT IS UNSUITABLE OR UNNECESSARY FOR EMBANKMENT SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.

ONLY SUITABLE SOIL MATERIALS CONSISTING OF INORGANIC NATURAL SOIL ARE ACCEPTABLE FOR BORROW AND EMBANKMENT IN ALL AREAS. THE FOLLOWING MATERIALS ARE EXPRESSLY UNSUITABLE FOR BORROW AND EMBANKMENT: PCS SOIL, SILT, TOPSOIL, RPCC, RACP, SHALE, SLAG OF ANY KIND, ROCK, DEBRIS, SOIL WITH ORGANIC CONTAMINANTS, EXCESSIVELY MOIST MATERIAL, AND GRANULAR EMBANKMENT MATERIALS THAT ARE NOT SUITABLE FOR COMPACTION.

BLASTING OR USE OF LARGE EQUIPMENT (EMPTY WEIGHT OVER 15 TONS) IN EARTHWORK OPERATIONS IS EXPRESSLY FORBIDDEN. PREPARE SUITABLE SUBGRADE UNDER ALL PAVED AREAS IN ACCORDANCE WITH ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING. FILL MATERIAL SHALL BE PLACED IN 6" LIFTS AND COMPACTED WITH A VIBRATORY SHEEPSFOOT ROLLER. IN SMALLER AREAS, FILL SHALL BE PLACED IN 4" LIFTS AND COMPACTED WITH SMALLER EQUIPMENT. IN NO CASE SHALL FILLS BE COMPACTED TO ANYTHING LESS THAN 100% OF THE MAXIMUM LABORATORY DRY DENSITY DETERMINED BY ASTM D698, STANDARD PROCTOR. THE OWNER SHALL PROVIDE AND PAY FOR ALL EMBANKMENT COMPACTION TESTING. PROVIDE A MINIMUM OF ONE TEST PER 2,000 S.F. OF PAVED AREA. ALL EXCAVATION IS UNCLASSIFIED AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ROCK EXCAVATION.

EMBANKMENT PLACED ON THE ENTIRE EXISTING SLOPED AREA WILL REQUIRE SPECIAL BENCHING PROCEDURES AS DESCRIBED AS PER ODOT GB2- SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS. ALL BENCHED EXCAVATION, BORROWED FILL, OFF SITE REMOVAL AND DISPOSAL OF UNSUITABLE SOIL, DRAINAGE AGGREGATE, GEOTEXTILE, UNDERDRAINS, COMPACTION, TESTING, ETC. REQUIRED TO COMPLETE EMBANKMENT IN THIS AREA SHALL BE INCIDENTAL TO THE QUANTITIES SHOWN IN THE GENERAL SUMMARY FOR THIS WORK AND NOT PAID FOR ON A UNIT PRICE BASIS.

THE CONTRACTOR WILL BE REQUIRED TO IMPORT SIGNIFICANT AMOUNTS OF SUITABLE BORROW AND/OR HAUL ALL UNSUITABLE OR EXCESS MATERIALS OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. NO ON-SITE DISPOSAL OF EXCESS FILL IS PERMITTED. ALL EXCAVATED MATERIALS SHALL BE DEPOSITED AT AN APPROVED DUMP SITE IN ACCORDANCE WITH ODOT 105.16

CALCULATED DS CHECKED JK

GENERAL NOTES

LOR-FRENCH CREEK BIKEWAY

34" x 22"

CALCULATED DS | CHECKED JK

GENERAL NOTES

ITEM 204 SUBGRADE COMPACTION, AS PER PLAN

THIS ITEM INCLUDES PREPARATION OF PAVEMENT SUBGRADE. ALL WORK SHALL BE DONE IN CONFORMANCE WITH ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, AS MODIFIED HEREIN. NO RECYCLED MATERIALS, BROKEN ROCK, BROKEN SHALE, BROKEN PAVEMENT, OR SILT ARE ACCEPTABLE AS FILL MATERIALS.

THE SUBGRADE SHALL BE FREE OF ORGANIC MATTER, WASTE CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS. FILL MATERIALS SHALL HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY GREATER THAN 110 POUNDS PER CUBIC FOOT, AN ATTERBERG LIQUID LIMIT LESS THAN 40, A PLASTICITY INDEX LESS THAN 15, AND A MAXIMUM PARTICLE SIZE OF 3" OR LESS. STRUCTURAL FILL SHALL CONSIST OF NON-EXPANSIVE MATERIALS. PYRITIC AND/OR POTENTIALLY EXPANSIVE MATERIALS, SUCH AS MINE TAILING, SHALES AND SLAG SHALL NOT BE USED.

SUBGRADE SHALL BE COMPACTED TO AT LEAST 100% MAXIMUM DRY DENSITY AND WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY ASTM D-698. THE OWNER SHALL PROVIDE DENSITY TESTS AT A RATE OF ONE PER 2,000 S.F. PER LIFT TO DETERMINE THAT SPECIFIED COMPACTION IS BEING ACHIEVED.

ITEM 204 - PROOF ROLLING, AS PER PLAN

THE CONTRACTOR SHALL UTILIZE A FULLY LOADED TANDEM DUMP TRUCK IN LIEU OF THE PROOF ROLLER REQUIREMENTS LISTED IN SPECIFICATION 204.06, A-G. ALL OTHER REQUIREMENTS PER 204.06 SHALL APPLY.

PROOF ROLLING 8 HOURS

ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM CONSISTS OF PLACEMENT OF 6" OR 10", AGGREGATE BASE AS PER ITEM 304 EXCEPT AS MODIFIED HEREIN.
ALL AGGREGATE MATERIAL UNDER PAVEMENTS SHALL BE 100% CRUSHED LIMESTONE. THE USE OF ANY OTHER MATERIALS IS STRICTLY PROHIBITED. CONTRACTOR SHALL SUBMIT MATERIAL MIX AND MATERIALS CERTIFICATIONS FOR APPROVAL PRIOR TO BEGINNING WORK.

ITEM 407 TACK COAT

ALL NEW ASPHALT PAVEMENTS SHALL HAVE TACK COAT APPLIED BETWEEN THE INTERMEDIATE AND SURFACE COURSES AT AN APPLICATION RATE OF 0.05 GALLONS PER SQUARE YARD.

ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE 'B', AS PER PLAN

THIS ITEM CONSISTS OF PLACEMENT OF 4" LAYER OF AGGREGATE WEARING COURSE ON COMPLETED AND ACCEPTED SUBGRADE AS PER ITEM 410 EXCEPT AS MODIFIED HEREIN. AGGREGATE MATERIAL SHALL BE LIMITED TO BANK RUN, OR CRUSHER RUN AGGREGATE. SEED AND MULCH SURFACE AS PER ITEM 659.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 AS PER PLAN

THIS ITEM CONSISTS OF 1-1/2" ASPHALT SURFACE COURSE CONSTRUCTION AS PER ITEM 448 CMS EXCEPT AS MODIFIED HEREIN. IN NO CASE, SHALL ANY TYPE OF SLAG MATERIALS BE PERMITTED. IN NO CASE SHALL THE PERCENTAGE OF RECYCLED MATERIALS EXCEED 10% OF THE TOTAL. CONTRACTOR SHALL SUBMIT MATERIAL MIXES FOR APPROVAL PRIOR TO BEGINNING WORK. SURFACE COURSE SHALL BE 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, MEDIUM TRAFFIC DESIGN. AVERAGE DENSITY OF IN-PLACE MATERIAL SHALL BE AS PER ODOT S1055. TEST FOR SURFACE SMOOTHNESS WITH 10'-0" STRAIGHT-EDGE. AT COMPLETION OF ALL PAVING THE OWNER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO TAKE 30 CORES TO VERIFY THICKNESS AND TO DETERMINE DENSITY IN THE LABORATORY. CORES TO BE LOCATED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PATCH CORE HOLES TO MATCH PAVEMENT. REPLACE ANY DEFECTIVE WORK AT NO COST TO THE OWNER.

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 AS PER PLAN

THIS ITEM CONSISTS OF 2-1/2" ASPHALT INTERMEDIATE COURSE CONSTRUCTION AS PER ITEM 448 CMS EXCEPT AS MODIFIED HEREIN. IN NO CASE, SHALL ANY TYPE OF SLAG MATERIALS BE PERMITTED. IN NO CASE SHALL THE PERCENTAGE OF RECYCLED MATERIALS EXCEED 10% OF THE TOTAL. CONTRACTOR SHALL SUBMIT MATERIAL MIXES FOR APPROVAL PRIOR TO BEGINNING WORK. INTERMEDIATE COURSE SHALL BE 448 ASPHALT INTERMEDIATE COURSE, TYPE 2, PG 64-22, MEDIUM TRAFFIC DESIGN. AVERAGE DENSITY OF IN-PLACE MATERIAL SHALL BE AS PER ODOT S1055. AT COMPLETION OF ALL PAVING THE OWNER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO TAKE 30 CORES TO VERIFY THICKNESS AND TO DETERMINE DENSITY IN THE LABORATORY. CORES TO BE LOCATED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PATCH CORE HOLES TO MATCH PAVEMENT. REPLACE ANY DEFECTIVE WORK AT NO COST TO THE OWNER.

ITEM 451 - 8" NON-REINFORCED CONCRETE PAVEMENT, A.P.P.

ALL WORK AS PER CMS ITEM EXCEPT WHERE IT CONFLICTS WITH VILLAGE STANDARD FOR APRONS. IN CASE OF CONFLICT, FOLLOW VILLAGE STANDARD FOR APRONS AT NO ADDITIONAL COST TO OWNER.

ITEM 530 SPECIAL- RETAINING WALL

THIS ITEM CONSISTS OF DESIGN AND CONSTRUCTION OF APPROXIMATLEY 70 LINEAL FEET OF GEOGRID REINFORCED, PRECAST CONCRETE, SEGMENTAL RETAINING WALL. FINISH ELEVATIONS AND LAYOUT SHALL BE AS SHOWN IN THE DETAIL. DESIGN OF FOUNDATION, DRAINAGE, GEOTEXTILE, GEOGRID, BACKFILL, AND COPING SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF OHIO. DESIGN SHALL BE IN ACCORDANCE WITH DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, NATIONAL CONCRETE MASONRY ASSOCIATION, THIRD EDITION AND ODOT S.S. 851.

SEGMENTAL UNITS SHALL COMPLY WITH ASTM C 1372 FOR STRENGTH, ABSORPTION, FREEZE - THAW DURABILITY, PERMISSIBLE VARIATION IN DIMENSIONS, FINISH AND APPEARANCE. MINIMUM COMPRESSIVE STRENGTH OF UNITS SHALL BE 5,000 PSI, MAXIMUM ABSORPTION SHALL BE 6.5 LBS./CU. FT. EXTERIOR DIMENSIONS OF UNIT SHALL BE NO LESS THAN 16" LONG (MEASURED AT FACE) X 6" HIGH X 12" DEEP WITH A WALL BATTER NOT TO EXCEED 3 DEGREES. COLOR TO BE NATURAL AND FINISH TO BE STANDARD.

INSTALLATION OF ALL WALL COMPONENTS AND INCIDENTALS INCLUDING EARTHWORK, DRAINAGE, GEOGRID, GEOTEXTILE, ETC. RELATED TO ITS INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH ENGINEER'S DESIGN AND MANUFACTURER'S RECOMMENDATIONS AND INCIDENTAL TO THIS WORK. ANY SPECIAL BACKFILL REQUIRED OVER EXISTING STORM PIPES OR WATER LINE SHALL BE INCIDENTAL TO THIS WORK. ALL WALL AND INCIDENTAL COSTS SHALL BE PART OF THE LUMP SUM PAYMENT FOR THIS ITEM.

ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN, AS PER PLAN

THIS ITEM CONSISTS OF PLACEMENT AND INSTALLATION OF GEOTEXTILE FILTER FABRIC, UNDERDRAIN PIPING, AND AGGREGATE BACKFILL AS PER ITEM 605 CMS EXCEPT AS MODIFIED HERIEN. UNDERDRAIN PIPE TO BE 6" DIAMETER, SMOOTH WALLED PVC PIPE, 707.41. AGGREGATE BACKFILL MATERIAL TO BE LIMITED TO LIMESTONE ONLY. SUBDRAIN TRENCH SHALL BE A MINIMUM OF 18" WIDE BY 36" BELOW FINISH GRADE. INCIDENTAL WORK SHALL INCLUDE CONNECTING NEW UNDERDRAINS TO STRUCTURE OR PROVIDING DAYLIGHT AGGREGATE.

ITEM 605- AGGREGATE DRAINS, AS PER PLAN

RECORD DRAWINGS INDICATE THAT THERE ARE EXISTING AGGREGATE DRAINS WITHIN THE FILL PREVIOUSLY PLACED FOR THE FLYOVER BRIDGE. WHERE THESE DRAINS ARE DISCOVERED DURING EARTHWORK OPERATIONS, THEY MUST BE EXTENDED TO THE NORTH TO DAYLIGHT AT THE NEW EDGE OF SLOPE. NEW DRAINS SHALL MATCH EXISTING DRAINS FOR WIDTH, DEPTH, SLOPE AND TYPE OF AGGREGATE FILL. IF A FILTER FABRIC OR UNDERDRAIN IS PRESENT, THESE MUST ALSO BE MATCHED AND EXTENDED AT NO ADDITIONAL COST TO THE OWNER. ALL OTHER ASPECTS OF CONSTRUCTION SHALL BE AS PER ITEM 605.

ITEM 605- AGGREGATE DRAINS, A.P.P.- 500 FT

ITEM 606 - FLARED END SECTION, AS PER PLAN

PRECAST CONCRETE END SECTIONS FOR CULVERTS TO BE INCIDENTAL TO THIS ITEM, PER THE FOLLOWING: PRECAST CONCRETE TO BE A MINIMUM OF 4,000 PSI, CONCRETE FLARED-END SECTIONS SHALL BE OF THE DESIGN SHOWN IN THE PLANS AND IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M 170, CLASS II PIPE, AASHTO M 206, CLASS A-II PIPE, OR AASHTO M 207, CLASS HE-II PIPE FOR THE DIAMETER OF PIPE ON WHICH IT IS TO BE INSTALLED.
THE END SECTIONS SHALL BE MANUFACTURED TO SHOW CAREFUL FINISHED WORKMANSHIP.

SIZES SHALL BE MANUFACTURER'S STANDARD. END SECTIONS SHALL HAVE THE STANDARD TOE PLATE. THE ALIGNMENT OF THE END SECTION SHALL MATCH THAT OF THE PIPE. THE INSTALLATION SHALL BE COMPLETED BY PROPER COMPACTION OF THE BACKFILL AROUND THE END SECTION.

PIPE SIZE:	QUANTITY:
12"	1

ITEM 606- GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN

WORK TO BE AS PER CMS AND STANDARD DRAWINGS EXCEPT AS MODIFIED HEREIN. ALL LONG POSTS ARE TO BE GALVANIZED STEEL TO MATCH EXISTING. ENDS OF ALL GUARDRAILS, EXCEPT AT DRIVEWAYS, SHALL HAVE TYPE 1 IMPACT ATTENUATORS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INCLUDE ANCHOR ASSEMBLIES.

ENDS OF RAIL AT DRIVEWAYS SHALL HAVE STANDARD ROUNDED W-BEAM END SECTION AND TYPE T ANCHOR ASSEMBLIES AS PER STANDARD DRAWINGS MGS-1.1, MGS-4.2, AND FIGURE 603.3 TITLED "GUARD DRIVEWAY OPENING" IN THE LOCATION AND DESIGN MANUAL, VOLUME 1.

PROVIDE SHOP AND LAYOUT DRAWING OF ALL GUARDRAIL COMPONENTS THAT COORDINATES WITH BIKEWAY RAILING FOR REVIEW AND APPROVAL BY ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE ALL INCLUSIVE MADE AT THE UNIT PRICE BID FOR ITEM 606, GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL GUARDRAIL SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, REFLECTIVE SHEETING, ANCHOR ASSEMBLIES, IMPACT ATTENUATORS AND GRADING.

ITEM 606- GUARDRAIL, REBUILT, TYPE MGS, AS PER PLAN

WORK TO BE AS PER CMS AND STANDARD DRAWINGS EXCEPT AS MODIFIED HEREIN. GUARDRAIL AND POSTS SALVAGED AS PART OF ITEM 202 GUARDRAIL REMOVED FOR REUSE, AS PER PLAN CAN BE REINSTALLED ASSUMING ITS CONDITION IS GOOD. REUSE IS FOR RAIL AND POSTS ONLY, ALL OTHER COMPONENTS WILL BE REPLACED WITH NEW AS PART OF THIS WORK.

PROVIDE SHOP AND LAYOUT DRAWING OF ALL GUARDRAIL COMPONENTS THAT COORDINATES WITH BIKEWAY RAILING FOR REVIEW AND APPROVAL BY ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE ALL INCLUSIVE MADE AT THE UNIT PRICE BID FOR ITEM 606, GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL GUARDRAIL SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, REFLECTIVE SHEETING, REFLECTORS, ANCHOR ASSEMBLIES AND GRADING.

ITEM 611- 12" CONDUIT, TYPE B, AS PER PLAN

THIS ITEM CONSISTS OF STORM SEWER PIPE CONSTRUCTION AS PER ITEM 611 CMS EXCEPT AS MODIFIED HEREIN. PIPE SHALL BE REINFORCED CONCRETE PIPE- ODOT 706.02, ASTM C14-2, W/ GASKETED JOINTS PER ASTM C361 OR C443.
ALL BACKFILL SHALL BE PREMIUM BACKFILL. ALL BACKFILL IN SEWER TRENCHES SHALL BE PLACED IN MAXIMUM 12" LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENTS OF 100% MAXIMUM LABORATORY DRY DENSITY PER ASTM D-698 AND THOROUGHLY COMPACTED WITH MACHINE MOUNTED COMPACTION EQUIPMENT. COMPACTION TESTING OF THE BACKFILL WILL BE REQUIRED AT CONTRACTOR COST INCIDENTAL TO THIS ITEM.

ITEM 624 MOBILIZATION/GENERAL CONDITIONS, A.P.P.

WORK SHALL CONSIST OF THE PREPARATORY WORK AND OPERATIONS FOR THE ASSEMBLING AND SETTING UP NECESSARY FOR THE PROJECT INCLUDING PROVISIONS OF ADMINISTRATION, SUPERVISING, STORAGE AND STAGING AREAS, SIGNS, BARRICADES, TEMPORARY UTILITIES, PERMITS, TRAILERS, NOTICES, LAYOUT, SAFETY, SEDIMENT AND EROSION CONTROL, SUBMITTALS, AND CLEANING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING WEEKLY MEETINGS WITH THE OWNER AND/OR ITS REPRESENTATIVE AND ISSUING MINUTES FOR THOSE MEETINGS. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING AND PAYING FOR ON-SITE TESTING FOR EMBANKMENT, SUBGRADE COMPACTION, CONCRETE, MORTAR, ASPHALT AND TOPSOIL. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO COMPLETE ALL LAYOUT WORK. THE CONTRACTOR SHALL PROVIDE PDF DIGITAL PRODUCT SUBMITTALS FOR REVIEW AND APPROVAL OF ALL MATERIALS PRIOR TO INSTALLATION.

CONTRACTOR SHALL SECURE ALL STAGING AREAS. A FULL TIME SUPERVISOR SHALL BE ON-SITE AT ALL TIMES AND BE ACCESSIBLE VIA MOBILE TELEPHONE. CONTACTOR SHALL OBTAIN AND DISPLAY ALL APPLICABLE PERMITS, NOTICES, OSHA POSTERS, AND INSPECTIONS REQUIRED TO COMPLETE THE WORK. CONTRACTOR SHALL PROVIDE ALL SAFETY TRAINING, PERSONAL PROTECTION, ACCIDENT PREVENTION SIGNS, FALL PROTECTION, EQUIPMENT, LADDERS, FIRST AID KITS, SANITARY AND WATER FACILITIES, ETC. AS PER CURRENT OSHA REQUIREMENTS.
TRAFFIC SHALL BE MAINTAINED ON ALL ROADWAYS IN BOTH DIRECTIONS AT ALL TIMES. CONTRACTOR SHALL COORDINATE DELIVERIES AND LANE CLOSURES WITH LOCAL OFFICIALS IN CONFORMANCE WITH ODOT AND LOCAL REQUIREMENTS. ANY RESIDENT THAT WILL BE AFFECTED BY THE WORK MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF WORK.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT AND TAKE ANY OTHER NEEDED ACTIONS AS IT DETERMINES TO BE REASONABLY NECESSARY TO PROTECT THE LIFE AND HEALTH OF EMPLOYEES ON THE JOB AND THE SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE WORK COVERED BY THE CONTRACT.

IT IS A CONDITION OF THIS CONTRACT, AND SHALL BE MADE A CONDITION OF EACH SUBCONTRACT, WHICH THE CONTRACTOR ENTERS INTO PURSUANT TO THIS CONTRACT, THAT THE CONTRACTOR AND ANY SUBCONTRACTOR SHALL NOT PERMIT ANY EMPLOYEE, IN PERFORMANCE OF THE CONTRACT, TO WORK IN SURROUNDINGS OR UNDER CONDITIONS WHICH ARE UNSANITARY, HAZARDOUS OR DANGEROUS TO HIS/HER HEALTH OR SAFETY, AS DETERMINED UNDER CONSTRUCTION SAFETY AND HEALTH STANDARDS PROMULGATED BY THE SECRETARY OF LABOR.

THE CONTRACTOR SHALL PROVIDE A PRECONSTRUCTION VIDEO TAPE SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO BE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEOTAPE SURVEY, SHALL BE INCLUDED IN ITEM 624-MOBILIZATION.

ITEM 638 FIRE HYDRANT AND GATE VALVE REMOVED AND RESET, AS PER PLAN

ALL WORK SHALL BE AS PER CMS AND IN ACCORDANCE WITH SHEFFIELD VILLAGE SPECIFICATIONS AVAILABLE AT THIS LINK:
https://virteomdevcdn.blob.core.windows.net/site-sheffieldvillage-com/uploaded_media/sheffieldvillage_com/departments/water/W&HGuide_1__1547751583.pdf

LOR-FRENCH CREEK BIKEWAY

34" x 22"

ITEM 651 – TOPSOIL STOCKPILED AS PER PLAN

AS PART OF ITEM 203 APP, STRIP AND REMOVE ALL TOPSOIL WITHIN THE LIMIT OF WORK AS PER ITEM 651 EXCEPT AS MODIFIED HEREIN. PLACE IN SCATTERED LOCATIONS AS DIRECTED BY ENGINEER FOR REPLACING AND/OR REMOVAL LATER. REMOVE ANY UNSUITABLE OR EXCESS TOPSOIL FROM SITE AND/OR IMPORT ANY ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER. PAYMENT TO BE MADE AS FOLLOWS:

ITEM 651 TOPSOIL STOCKPILED AS PER PLAN – 600 CY

ITEM 652 – PLACING STOCKPILED TOPSOIL AS PER PLAN

PLACE AND FINE GRADE TOPSOIL WITHIN THE LIMIT OF WORK AS PER ITEM 652 TO A DEPTH OF 4", EXCEPT AS MODIFIED HEREIN. IMPORT, SCREEN, AND/OR AMEND ANY ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER. REMOVE ANY UNSUITABLE OR EXCESS TOPSOIL FROM THE SITE AT NOT ADDITIONAL COST TO THE OWNER. ALL OTHER REQUIREMENTS AS PER ODOT ITEM 652 PLACING STOCKPILED TOPSOIL. PAYMENT TO BE MADE AS FOLLOWS:

ITEM 652 PLACING STOCKPILED TOPSOIL AS PER PLAN – 600 CY

ITEM 659 SEEDING AND MULCHING, AS PER PLAN

THIS ITEM CONSISTS OF SEEDING AND MULCHING AS PER ITEM 659 EXCEPT AS MODIFIED HEREIN. THIS WORK INCLUDES SEEDING, MULCHING, LIMING, FERTILIZING, WATERING AND MOWING AS SHOWN ON THE PLANS. SEED MIX SHALL BE CLASS 1, TYPE LAWN MIXTURE (SUBMIT MIX FOR APPROVAL). CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE MOWINGS OF SEEDED AREAS. WATERING, FERTILIZING, APPLYING HERBICIDES AND RESEEDING SHALL BE INCLUDED IN THIS ITEM, AS REQUIRED, UNTIL ACCEPTANCE BY THE OWNER.

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SOIL ANALYSIS TEST 2 EACH

ITEM 659, REPAIR SEEDING AND MULCHING 297.3 SQ. YD.

ITEM 659, INTER–SEEDING 297.3 SQ. YD.

ITEM 659, COMMERCIAL FERTILIZER 0.80 TON

ITEM 659, LIME 1.23 ACRES

ITEM 659, WATER 60.57 M. GAL.

ITEM 659, MOWING 1.49 M. SQ. FT.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT–OF–WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT–OF–WAY LINES COVERED BY WORK AGREEMENT OR CONSTRUCTION EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS AND INCLUDES SEEDING AND MULCHING ITEM 410–TRAFFIC COMPACTED SURFACE.

ITEM 690 SPECIAL– MAILBOX REMOVED AND RESET AS PER PLAN

ALL WORK SHALL BE AS PER USPS AND ODOT CMS AND IN ACCORDANCE WITH VILLAGE OF SHEFFIELD REQUIREMENTS FOUND AT THIS LINK:

https://virteomdevcdn.blob.core.windows.net/site–sheffieldvillage–2–com/uploaded_media/sheffieldvillage_com/departments/services–and–streets/Mailbox_standards__1550004401.pdf

ITEM 832 – STORM WATER POLLUTION PREVENTION PLAN AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING, LOCATING AND MAINTAINING TEMPORARY SEDIMENT AND EROSION CONTROL TO COMPLY WITH CLEAN WATER ACT, 33 USC SECTION 1251 ET SEG., AND THE OHIO WATER POLLUTION CONTROL ACT, ORC 6111.01 ET SEG., ALL CONDITIONS OF 404 PERMIT / 401 WATER QUALITY CERTIFICATION/ ISOLATED WETLAND PERMIT AND RELATED RULES, LOCAL GOVERNMENT AGENCY REQUIREMENTS, SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND PERMITS.

THE CONTRACTOR SHALL FURNISH A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO REPRESENT AND WARRANT COMPLIANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 832 RELATED RULES, SPECIFICATIONS, SCD AND PERMITS.

THE OWNER HAS OBTAINED AN OHIO EPA N.O.I. FOR THE PROJECT. THE CONTRACTOR SHALL SUBMIT A CO–PERMIT N.O.I.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 832, STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN LUMP

ITEM 832, EROSION CONTROL 11,500 EA.

ITEM 614, MAINTAINING TRAFFIC, MISC:

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. WORK OUTSIDE OF SHOULDER SHALL BE AS DEFINED IN OMUTCD SECTION 6G.06. TEMPORARY TRAFFIC CONTROL IN THESE AREAS SHALL BE AS DESCRIBED IN SECTION 6G.06 INCLUDING FIGURE 6H–1.
2. WORK ON THE SHOULDER WITH NO ENCROACHMENT SHALL BE AS DEFINED IN OMUTCD SECTION 6G.07 AND WHERE WORK WILL OCCUR WITHIN ON–STREET PARKING LANES. TEMPORARY TRAFFIC CONTROL IN THESE AREAS SHALL BE AS DESCRIBED IN SECTION 6G.07 INCLUDING FIGURES 6H–3, 6H–4, AND 6H–5.
3. WORK ON THE SHOULDER WITH MINOR ENCROACHMENT SHALL BE AS DEFINED IN OMUTCD SECTION 6G.08 AND WHERE WORK WILL OCCUR WITHIN ON–STREET PARKING LANES. TEMPORARY TRAFFIC CONTROL IN THESE AREAS SHALL BE AS DESCRIBED IN SECTION 6G.08 INCLUDING FIGURE 6H–6.
4. WORK WITHIN THE TRAVELED WAY OF URBAN STREETS SHALL BE AS DEFINED IN OMUTCD SECTION 6G.11. TEMPORARY TRAFFIC CONTROL IN THESE AREAS SHALL BE AS DESCRIBED IN SECTION 6G.11 INCLUDING FIGURES 6H–10, 6H–21, 6H–22, 6H–23, 6H–24, 6H–25, 6H–31, & 6H–32 FOR TWO–WAY STREETS AND FIGURE 6H–34 FOR ONE–WAY STREETS. FIGURES 6H–11 AND 6H–12 SHALL NOT APPLY TO THIS WORK. WORK WITHIN THE TRAVELED WAY OF URBAN STREETS SHALL BE AVOIDED AS MUCH AS POSSIBLE AND SHOULD ONLY BE UTILIZED FOR SHORT DURATIONS INVOLVING THE DELIVERY OF EQUIPMENT OR MATERIALS. EXCEPT FOR SHORT DURATIONS INVOLVING THE DELIVERY OF EQUIPMENT OR MATERIALS, A MINIMUM OF ONE, TWELVE–FOOT WIDE LANE IN EACH DIRECTION ON TWO–WAY STREETS SHALL BE MAINTAINED AT ALL TIMES. 12' WIDE LANES IN ONE DIRECTION ON ONE–WAY STREETS SHALL BE MAINTAINED AT ALL TIMES. NO TRAVEL LANES MAY BE CLOSED, RESTRICTED OR SHIFTED DURING NON–WORKING HOURS.
5. WORK AFFECTING EXISTING PEDESTRIAN AND BICYCLE FACILITIES SHALL BE AS DEFINED IN OMUTCD SECTION 6G.05. TEMPORARY TRAFFIC CONTROL IN THESE AREAS SHALL BE AS DESCRIBED IN SECTION 6G.05 INCLUDING FIGURES 6H–28, AND 6H–29.
6. WORK AFFECTING PRIVATE DRIVEWAYS AND/OR ON–STREET PARKING SHALL BE AS DESCRIBED IN SECTION 640–10 OF THE ODOT TRAFFIC ENGINEERING MANUAL (TEM). CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL PROPERTY OWNERS OF INCONVENIENCES INCLUDING INACCESSIBILITY TO DRIVEWAYS OR ON–STREET PARKING AREAS 48 HOURS PRIOR TO DOING THE WORK. THE CONTRACTOR SHALL DO EVERYTHING POSSIBLE TO REDUCE THE AMOUNT OF TIME THAT PROPERTY OWNERS CANNOT USE THEIR DRIVEWAYS OR ON–STREET PARKING AREAS INCLUDING, THE USE OF STEEL PLATING, USE OF HIGH–EARLY STRENGTH CONCRETE, ETC.
7. NO VEHICULAR DETOURS ARE PERMITTED FOR THIS PROJECT UNLESS APPROVED IN WRITING BY THE CITY ENGINEER. PEDESTRIAN DETOURS SHALL BE AS DEFINED IN ITEM 5 ABOVE.
8. THE CONTRACTOR SHALL PROVIDE DETAILED TEMPORARY TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE ABOVE STANDARDS TO THE RESIDENT ENGINEER, THE CITY ENGINEER AND AFFECTED PROPERTY OWNERS EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
9. CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR SHOULDER OR ON–STREET PARKING LANE RESTRICTIONS THAT ARE IN OPERATION ONE–HALF HOUR AFTER SUNSET OR ONE HALF–HOUR BEFORE SUNRISE. ALL NIGHT TIME SHOULDER OR ON–STREET PARKING LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET.
10. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.
11. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE.
12. CONTRACTOR SHALL CLEAN PUBLIC ROADS DAILY AT NO ADDITIONAL COST TO THE OWNER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND VILLAGE OF SHEFFIELD.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, MAINTAINING TRAFFIC, MISC. LUMP

CALCULATED DS CHECKED JK

GENERAL NOTES

LOR-FRENCH CREEK BIKEWAY

1" 0.5" 0

34" x 22"

SHEET NUM.								PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	12	23	26	29	32										
																ROADWAY	
					LUMP							201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	
					612							202	23000	612	SY	PAVEMENT REMOVED	
					LUMP							202	98000	LS		REMOVAL MISC.:SALVAGE EXISTING BOULDERS AS DIRECTED BY OWNER	
					804							202	38001	804	FT	GUARDRAIL REMOVED, AS PER PLAN	
225												202	38201	225	FT	GUARDRAIL REMOVED FOR REUSE, AS PER PLAN	
					1							202	75251	1	EACH	GATE REMOVED, AS PER PLAN	
				5367								203	98000	5,367	CY	ROADWAY, MISC.: EXCAVATION AND EMBANKMENT, AS PER PLAN	
1000												203	40121	1,000	TON	BORROW, USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING COST OF EXCAVATION	
			3654									204	10001	3,654	SY	SUBGRADE COMPACTION, AS PER PLAN	
8												204	45001	8	HOUR	PROOF ROLLING, AS PER PLAN	
					1							638	10600	1	EACH	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	
					1							638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
					2							SPECIAL	69098000	2	EACH	MISC.: MAILBOX REMOVED AND RESET, APP.	
																PAVEMENT	
			440									304	20001	440	CY	AGGREGATE BASE, AS PER PLAN (6")	
			12									304	20001	12	CY	AGGREGATE BASE, AS PER PLAN (10")	
			100									407	10000	100	GAL	TACK COAT	
			88									410	11001	88	CY	TRAFFIC COMPACTED SURFACE, TYPE B, AS PER PLAN (4")	
			85									441	50101	85	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN PG 64-22 (1 1/2")	
			138									441	50301	138	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN PG 64-22 (2 1/2")	
			3									441	50301	3	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN PG64-22 (3")	
			586									452	12051	586	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	
			420									608	13000	420	SF	6" CONCRETE WALK	
	LUMP											SPECIAL	53099050	LS		RETAINING WALL	
																DRAINAGE	
			2									601	32305	2	CY	ROCK CHANNEL PROTECTION, TYPE D WITH FABRIC FILTER, AS PER PLAN	
	500											605	31101	500	FT	AGGREGATE DRAINS, AS PER PLAN	
			2300									605	11100	2,300	FT	6" SHALLOW PIPE UNDERDRAINS	
			1									606	20000	1	EACH	FLARED END SECTION (12")	
			290									611	04401	290	FT	12" CONDUIT, TYPE B, AS PER PLAN	
			1									611	99550	1	EACH	MANHOLE, NO. 1	
																TRAFFIC CONTROL	
			1210									606	15101	1,210	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	
			225									606	16051	225	FT	GUARDRAIL REBUILT, TYPE MGS, AS PER PLAN	
		LUMP										614	18002	LS		MAINTAINING TRAFFIC, MISC.: PER NOTE	
		LUMP										624	10001	LS		MOBILIZATION, AS PER PLAN	
						42						630	03100	42	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						39						630	80100	39	SF	SIGN, FLAT SHEET	
						20						642	00500	20	FT	STOP LINE, TYPE 1	
						4						642	01380	4	EACH	WORD ON PAVEMENT, 48"	
			1320									SPECIAL	69098100	1,320	FT	MISC.: BIKEWAY RAILING	
																EROSION CONTROL	
		600										651	10001	600	CY	TOPSOIL STOCKPILED, AS PER PLAN	
		600										652	10001	600	CY	PLACING STOCKPILED TOPSOIL, AS PER PLAN	
		2										659	00100	2	EACH	SOIL ANALYSIS TEST	
							6100					659	00501	6,100	SY	SEEDING AND MULCHING, CLASS 1, AS PER PLAN	
		297.3										659	14000	297.3	SY	REPAIR SEEDING AND MULCHING	
		297.3										659	15000	297.3	SY	INTER-SEEDING	
		0.8										659	20000	0.8	TON	COMMERCIAL FERTILIZER	
		1.23										659	31000	1.23	ACRE	LIME	
		60.57										659	35000	60.57	MGAL	WATER	
		1.49										659	40000	1.49	MSF	MOWING	
		LUMP										832	15001	LS		STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN	
		11500										832	30001	11,500	EACH	EROSION CONTROL, AS PER PLAN	
																LANDSCAPING	
							3					661	40100	3	EACH	DECIDUOUS TREE, 2-1/2" CALIPER ACER X F. 'CELZAM ' CELEBRATION	
							8					661	40100	8	EACH	DECIDUOUS TREE, 2-1/2" CALIPER ACER RUBRUM ' SOMERSET'	
							4					661	40100	4	EACH	DECIDUOUS TREE, 2-1/2" CALIPER BETULA NIGRA 'HERITAGE'	

CALCULATED DS
CHECKED JK

GENERAL SUMMARY

LOR-FRENCH CREEK BIKEWAY

9
42

0 0.5" 1"

34" x 22"

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	12	23	26	29	32												
																		LANDSCAPING	
							6							661	40100	6	EACH	DECIDUOUS TREE, 2-1/2" CALIPER LIRIODENDRON TULIPIFERA	
							3							661	40100	3	EACH	DECIDUOUS TREE, 2-1/2" CALIPER PLATANUS OCCIDENTALIS	
							5							661	40100	5	EACH	DECIDUOUS TREE, 2-1/2" CALIPER QUERCUS ALBA	
							3							661	40100	3	EACH	DECIDUOUS TREE, 2-1/2" CALIPER QUERCUS RUBRA	
							3							661	40100	3	EACH	DECIDUOUS TREE, 2-1/2" CALIPER TILIA AMERICANA 'REDMOND'	
							8							661	40100	8	EACH	DECIDUOUS TREE, 2-1/2" CALIPERULMUS AMERICANA 'VALLEY FORGE'	

CALCULATED DS
CHECKED JK

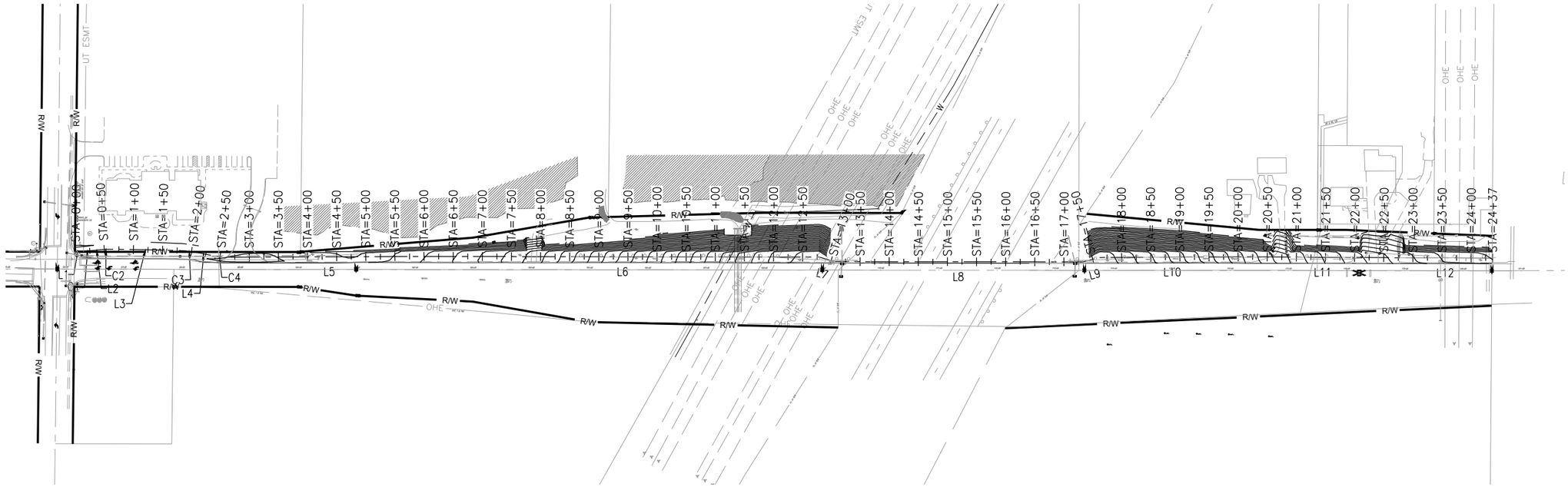
GENERAL SUMMARY

LOR-FRENCH CREEK BIKEWAY

10
42

0 0.5" 1"

34" x 22"



PROJECT DESCRIPTION

THE FRENCH CREEK BIKEWAY PROJECT CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 0.46 MILES OF SHARED USE PATH ALONG FRENCH CREEK ROAD IN THE CITY OF SHEFFIELD. THE BIKEWAY HAS AN EAST WEST ORIENTATION BEGINNING AT ABBE ROAD AND HEADING EAST TO SHEFFIELD AVON LINE.

PROJECT EARTH DISTURBED AREA:	*1.64 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*.2 ACRES*
NOTICE OF INTENT (NOI) EARTH DISTURBED AREA:	*1.84 ACRES*

PROJECT DATA			
TOTAL AREA (RIGHT OF WAY).....	N/A	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE.....	N/A
PROJECT EARTH DISTURBED AREA.....	1.64 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE...	N/A
ESTIMATED CONTRACTOR EARTH DISTURBED AREA.....	.2 AC	POST CONSTRUCTION BMPS TO MEET POST CONSTRUCTION NPDES REQUIREMENTS: PROVIDE VEGETATED FILTER STRIPS RANGING IN WIDTH FROM 5' TO 60' AS PER LOCATION & DESIGN MANUAL, VOL. 2, 1111.6.3.	
NOTICE OF INTENT EARTH DISTURBED AREA.....	1.84 AC		
IMPERVIOUS PAVED AREA FOR PRE-CONSTRUCTION SITE.....	0.08 AC	IMMEDIATE RECEIVING WATER.....	FRENCH CREEK
IMPERVIOUS PAVED AREA FOR POST CONSTRUCTION SITE.....	.47 AC	SUBSEQUENT RECEIVING WATER.....	BLACK RIVER/ LAKE ERIE

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED | CHECKED

SITE PLAN

LOR-FRENCH CREEK BIKEWAY

1" 0.5" 0

34" x 22"

SHEET	TRAIL STATIONS	REFERENCE NO. WHERE SHOWN ON SHEET	COMPUTER GENERATED AREAS (S.F.)	204	304	304	407	410	441	441	441	451	530	601	606	605	606	606	608	611	611	690
				SUBGRADE COMPACTION, A.P.P.	AGGREGATE BASE, A.P.P. (6")	AGGREGATE BASE, A.P.P. (10")	TACK COAT (.05 GAL/SY)	TRAFFIC COMPACTED SURFACE TYPE 'B' A.P.P. (4")	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, A.P.P. (2–1/2")	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, A.P.P. (3")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, A.P.P. (1–1/2")	8" NON–REINFORCED CONCRETE PAVEMENT, CLASS QC MS	ITEM SPECIAL – RETAINING WALL	ROCK CHANNEL PROTECTION, TYPE D, WITH GEOTEXTILE FABRIC, A.P.P.	12" FLARED END SECTION, A.P.P.	SHALLOW PIPE UNDERDRAIN (6"), A.P.P.	GUARDRAIL, TYPE MGS, WITH LONG POLES, AS PER PLAN	GUARDRAIL REBUILT, TYPE MGS, A.P.P.	6" CONCRETE WALK	CONDUIT TYPE B, A.P.P. (12")	MANHOLE, NO. 1	ITEM SPECIAL MISC.: BIKEWAY RAILING
				(A/9)*1.4	(6A/(12*27))* 1.04	(10A/(12*27))*1.04	.05*A/9	4(.4A/(12*27))	(2.5A/12*27)*1.02	(3A/12*27)*1.02	(1.5A/12*27)*1.02	A/9		A/27								
			A	SQ. YD.	CU. YD.	CU. YD.	GAL.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	LS	CU. YD.	EACH	FT.	FT.	FT.	SQ. FT.	FT.	EACH	FT.
13	0+00 – 4+25		3660	569	70		20	18	29		17											
		UN														760						
		CO	1290	201	25							143										
14	4+25 – 9+25		4910	764	95		27	24	39		23											
		UN														500						
		AP	362	56		12	2	2		3	2											
		BR																				370
		GR															380					
		CU																		290		
		CP												2.00								
		MH																			1	
		FL													1							
15	9+25 – 14+25		3033	472	58		17	15	24		14											
		UN														360						
		BR																				350
		GR															270					
		GRR																115				
		RW											LUMP									
		WA		22															200			
16	14+25 – 19+25		1640	255	32		9	8	13		8											
		UN														170						
		BR																				160
		GR															90					
		GRR																110				
		WA		24															220			
17	19+25 – 24+37		4312	671	83		24	21	34		20											
		UN														510						
		CO	3985	620	77							443										
		BR																				440
		GR															470					
		GRR																				
	TOTALS TO SHEET 9			3654	440	12	100	88	138	3	85	586	LUMP	2	1	2300	1210	225	420	290	1	1320

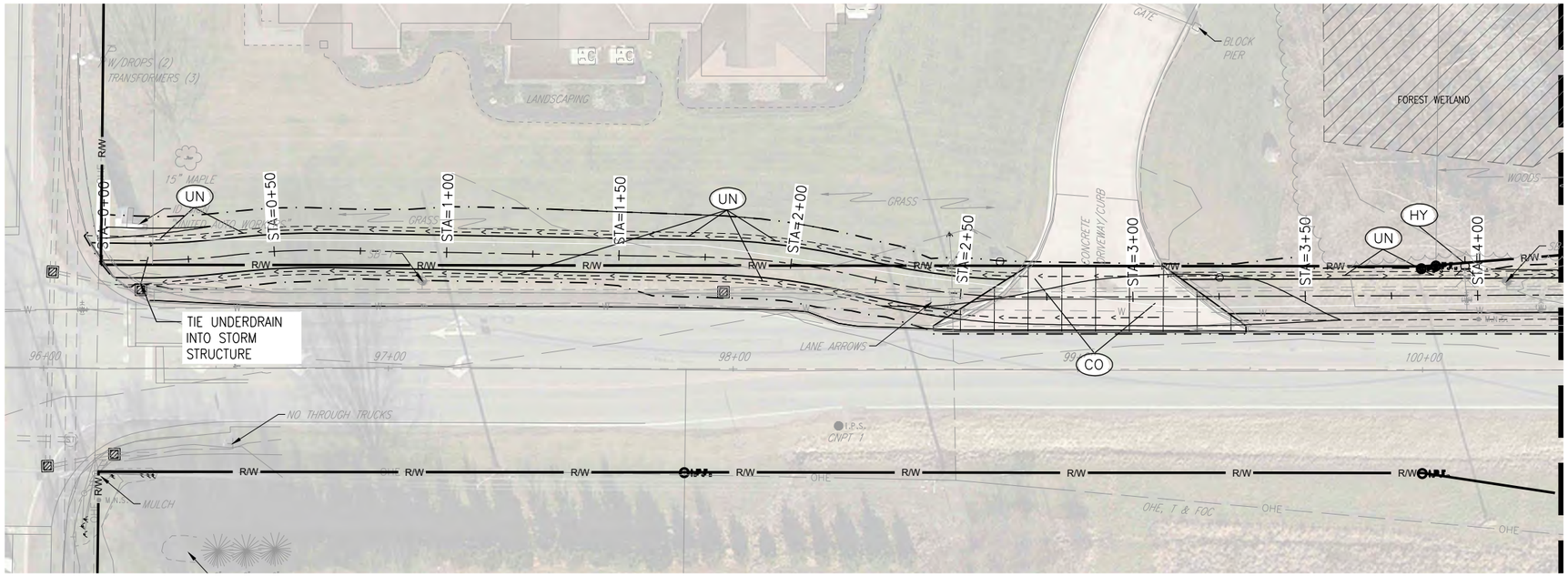
CALCULATED DS
CHECKED JK

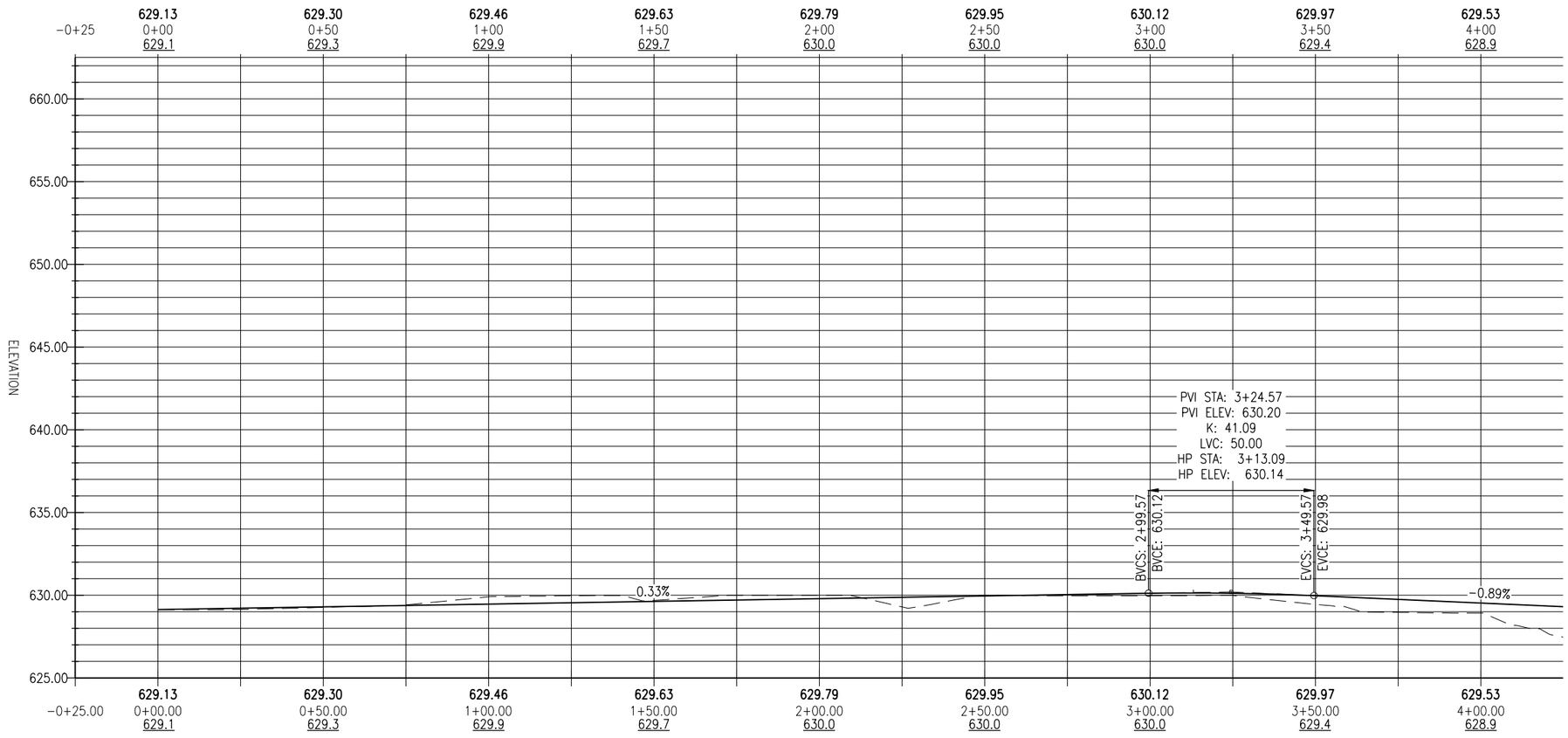
TRAIL SUBSUMMARY & PAVEMENT CALCULATIONS

LOR-FRENCH CREEK BIKEWAY

1" 0.5" 0

34" x 22"





LEGEND:

- UN — ITEM 605 – SHALLOW PIPE UNDERDRAIN, A.P.P. (6")
- FL — ITEM 606 – FLARED END SECTION A.P.P. (12")
- MH — MANHOLE NO. 1
- CU — ITEM 611 – CONDUIT, TYPE B, A.P.P. (12")
- CP — ITEM 601 – ROCK CHANNEL PROTECTION, TYPE 'D' WITH GEOTEXTILE FABRIC, A.P.P.
- CO — ITEM 451– 8" NON–REINFORCED CONCRETE PAVEMENT, CLASS QC MS
- AP — HEAVY DUTY ASPHALT
- BR — ITEM 690 SPECIAL: BIKEWAY RAILING
- GR — ITEM 606 GUARDRAIL, TYPE MGS, WITH LONG POLES, A.P.P.
- GRR — ITEM 606 GUARDRAIL, REBUILT, TYPE MGS, A.P.P.
- HY — ITEM 638 FIRE HYDRANT & GATE VALVE REMOVED & RESET AS PER PLAN
- WA — ITEM 608 6" CONCRETE WALK
- CONSTRUCTION LIMITS (TYP.)
- TRAIL CENTERLINE
- SHOULDERS (TYP.)
- RIGHT OF WAY LINE
- SOIL BORING LOCATION

NOTES:

1. FOR TRAIL TYPICAL SECTIONS, SEE SHEET 3–4.
2. FOR TRAIL CROSS SECTIONS, SEE SHEETS 19–23.
3. FOR TRAIL QUANTITIES, SEE SHEET 12.
4. FOR DRAINAGE QUANTITIES, SEE SHEET 12.
5. SEE ADJUSTMENT/ REMOVAL PLANS, SHEETS 24–26.
6. SEE ENLARGEMENTS, SHEETS 33–34
7. HEAVY DUTY ASPHALT TO BE AS PER TYPICAL SECTION.
8. BIKEWAY ASPHALT TO BE AS PER TYPICAL SECTION.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

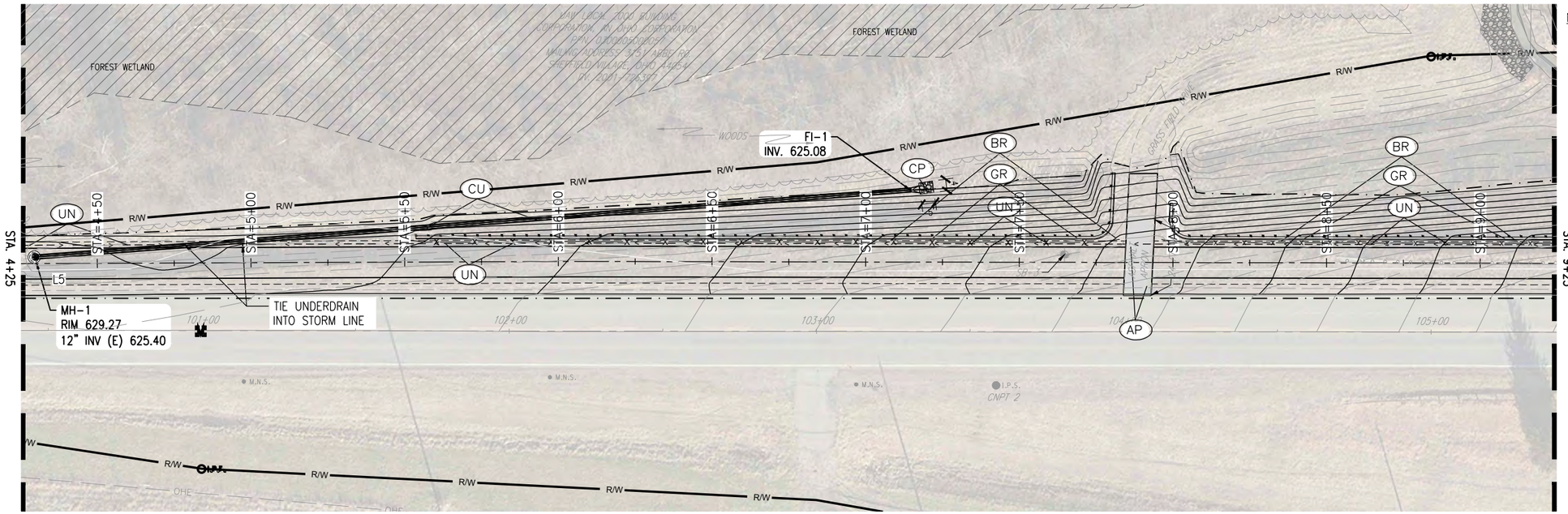
PLAN AND PROFILE SHEET
STA. 00+00 - STA. 4+25

LOR-FRENCH CREEK BIKEWAY

13
42

1" 0.5" 0

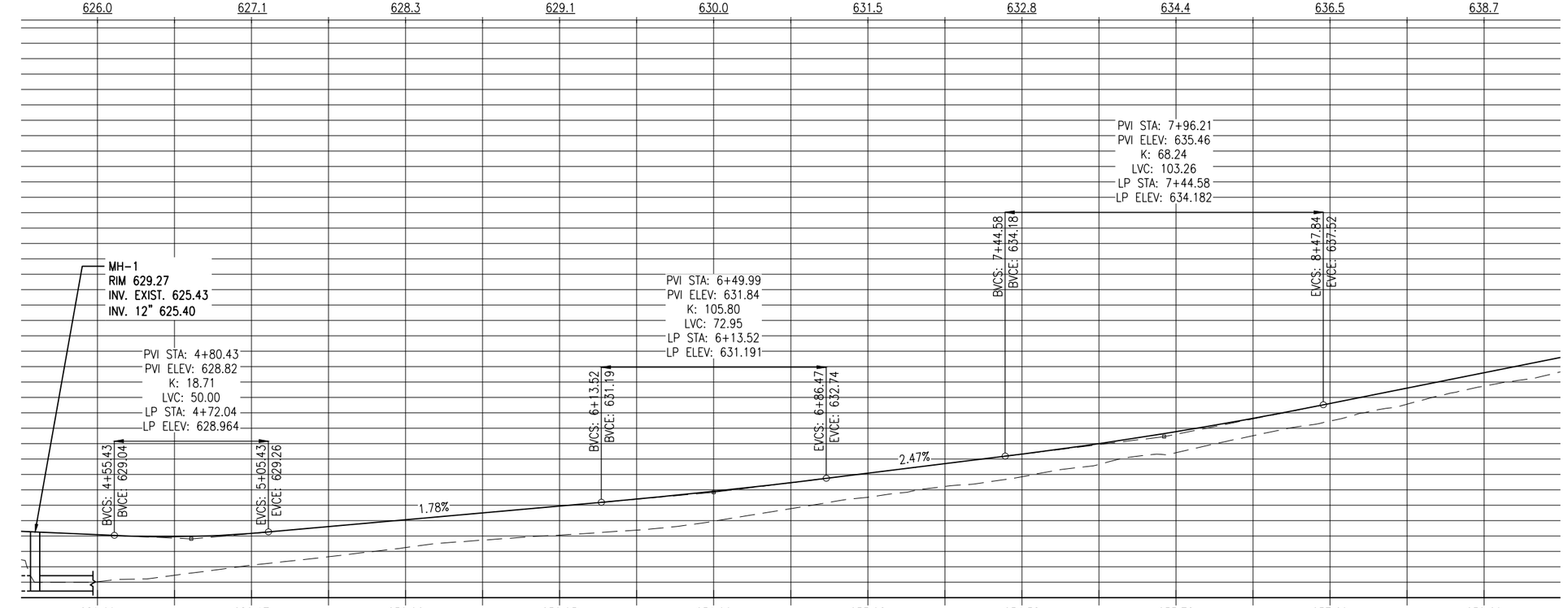
34" x 22"



NOTES:

1. SEE LEGEND AND NOTES ON SHEET 13

629.09	629.17	630.06	630.95	631.90	633.08	634.32	635.78	637.60	639.60
4+50	5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00
626.0	627.1	628.3	629.1	630.0	631.5	632.8	634.4	636.5	638.7



629.09	629.17	630.06	630.95	631.90	633.08	634.32	635.78	637.60	639.60
4+50.00	5+00.00	5+50.00	6+00.00	6+50.00	7+00.00	7+50.00	8+00.00	8+50.00	9+00.00
626.0	627.1	628.3	629.1	630.0	631.5	632.8	634.4	636.5	638.7

1" 0.5" 0

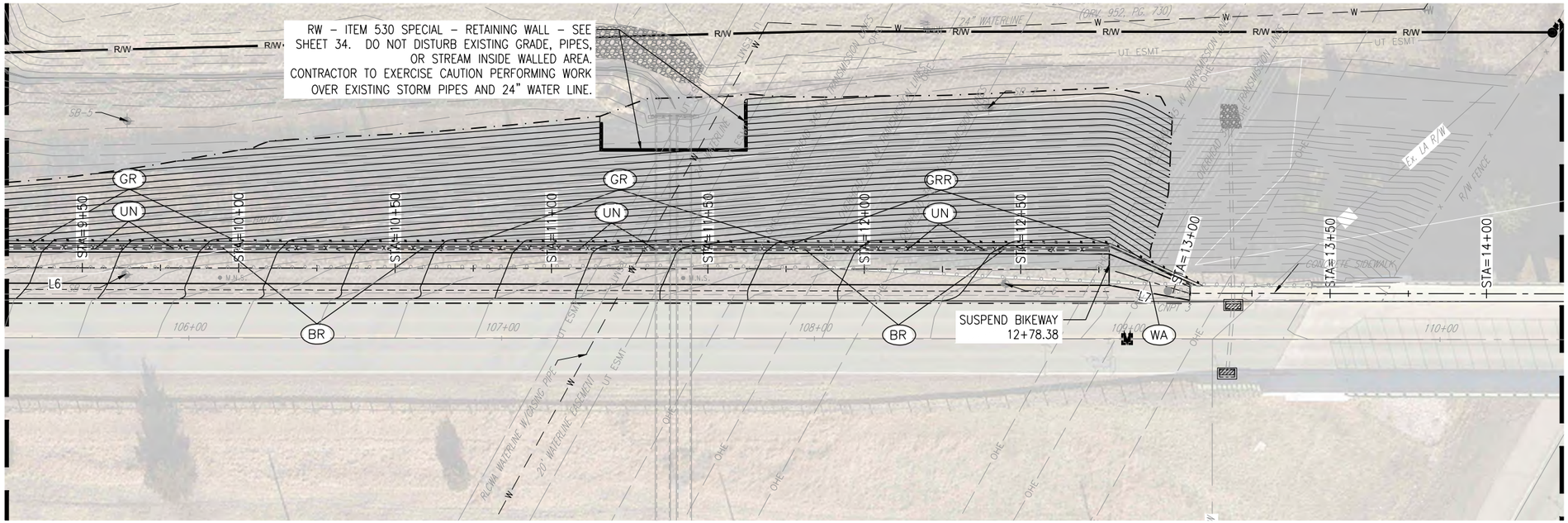
34" x 22"

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE SHEET - STA. 4+25 - STA. 9+25

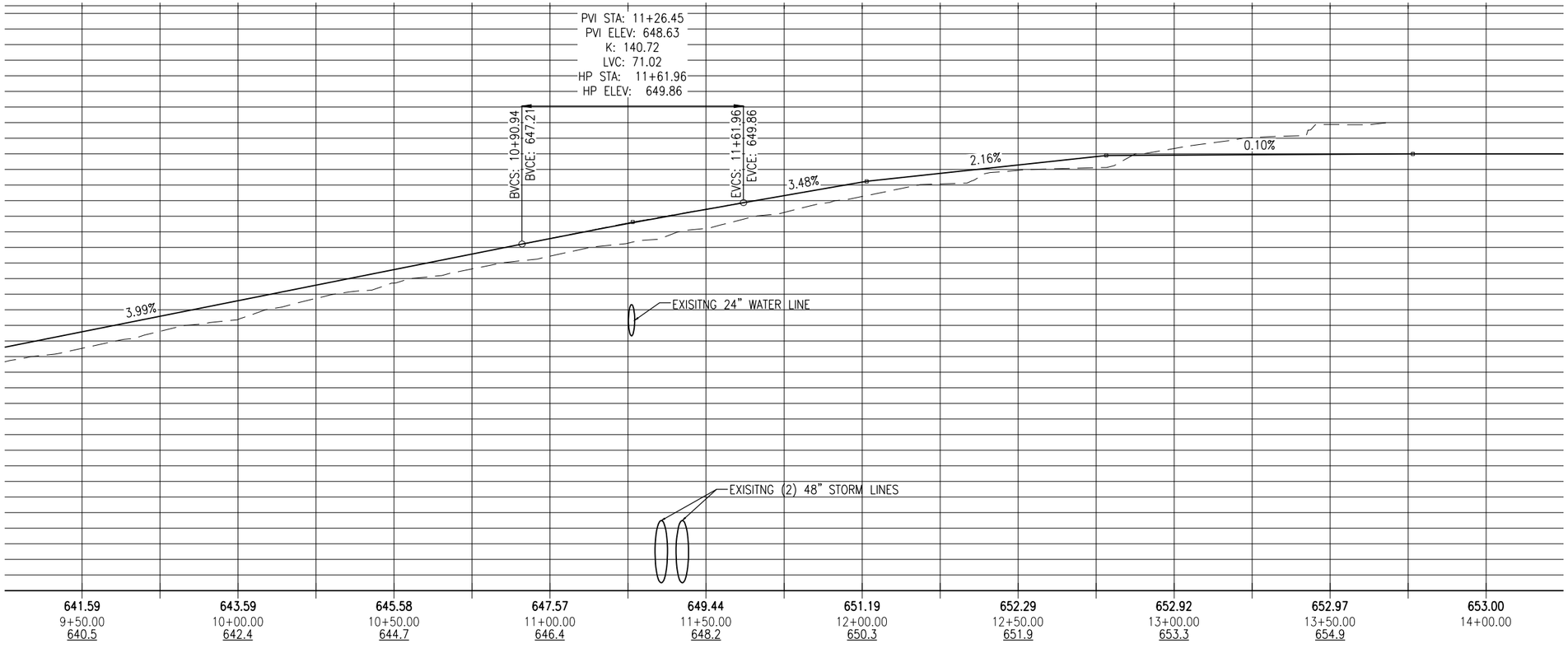
LOR-FRENCH CREEK BIKEWAY



NOTES:

1. SEE LEGEND AND NOTES ON SHEET 13

641.59	643.59	645.58	647.57	649.44	651.19	652.29	652.92	652.97	653.00
9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00
640.5	642.4	644.7	646.4	648.2	650.3	651.9	653.3	654.9	



641.59	643.59	645.58	647.57	649.44	651.19	652.29	652.92	652.97	653.00
9+50.00	10+00.00	10+50.00	11+00.00	11+50.00	12+00.00	12+50.00	13+00.00	13+50.00	14+00.00
640.5	642.4	644.7	646.4	648.2	650.3	651.9	653.3	654.9	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE SHEET
STA. 9+25 - STA. 14+25

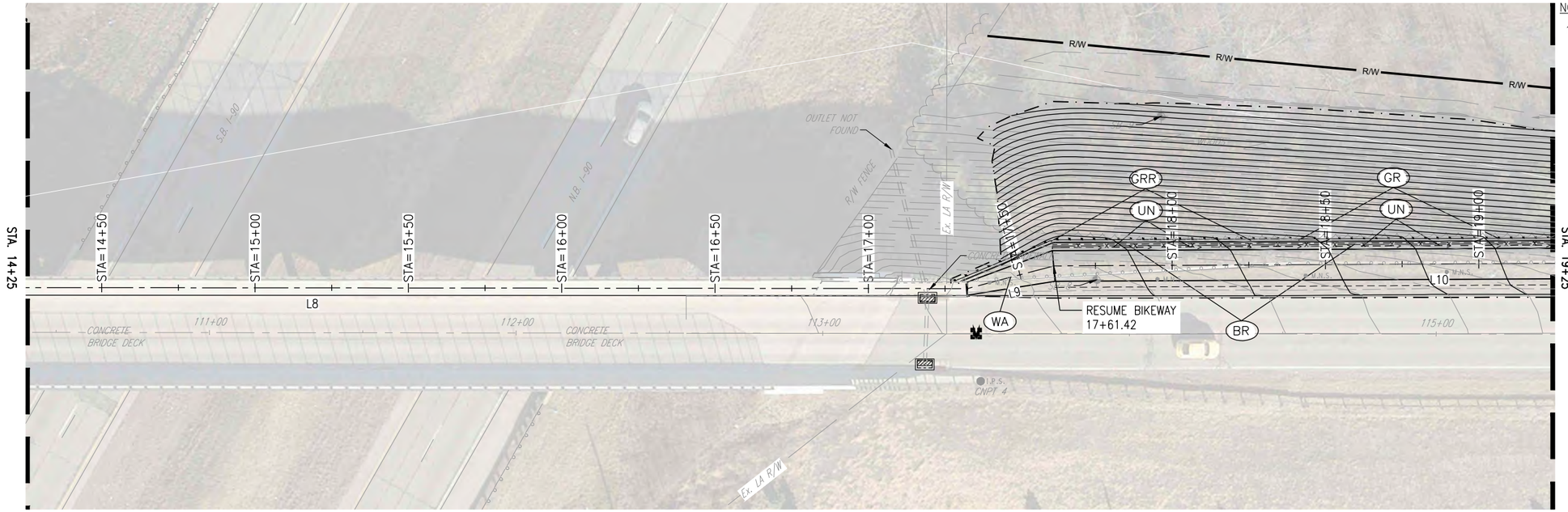
LOR-FRENCH CREEK BIKEWAY

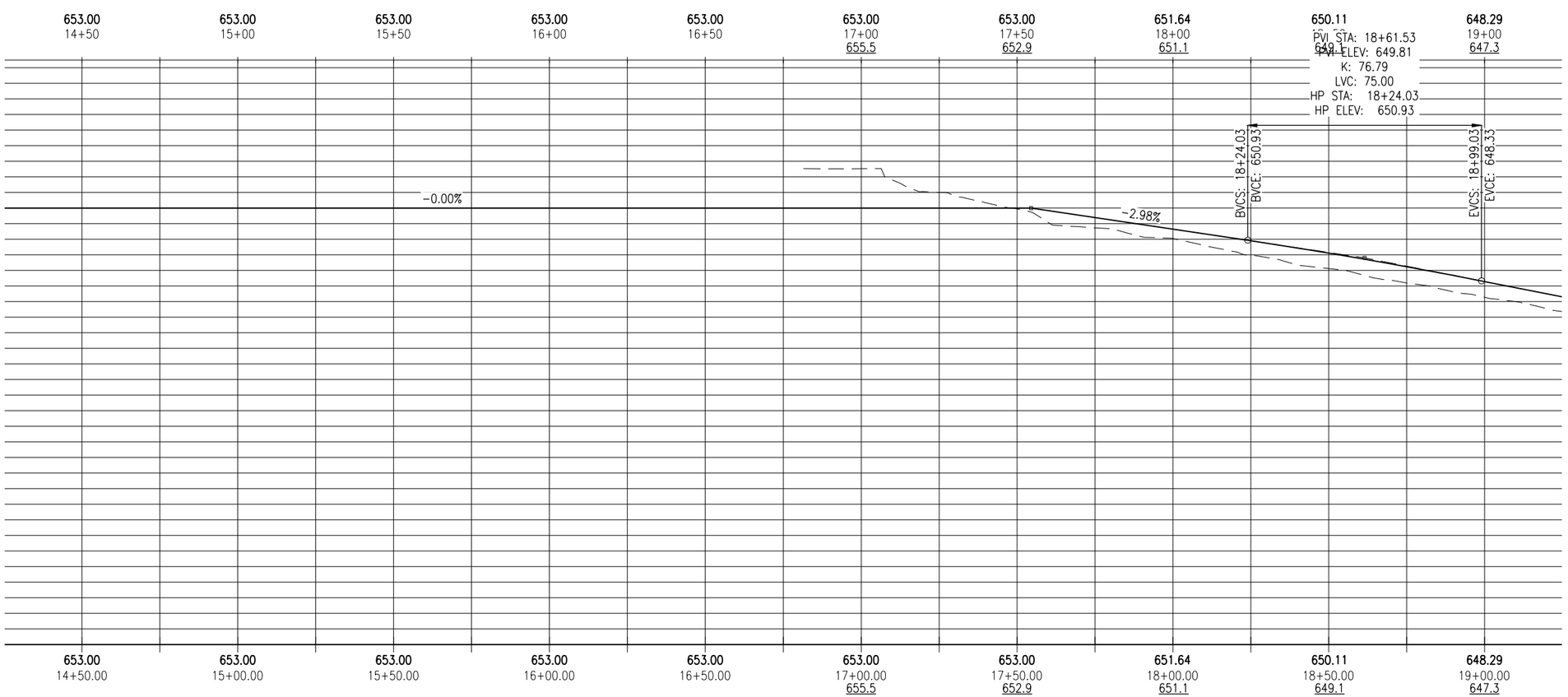
1" 0.5" 0

34" x 22"

NOTES:

1. SEE LEGEND AND NOTES ON SHEET 13





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE SHEET
STA. 14+25 - STA. 19+25

LOR-FRENCH CREEK
BIKEWAY

16
42

1" 0.5" 0

34" x 22"

NOTE: NEW CONSTRUCTION IN THIS AREA OCCURRED AFTER DESIGN OF SHARED USE PATH. EXISTING CONDITION SHOWN IS FROM CONSTRUCTION DOCUMENTS AND MAY NOT BE ACCURATE. ACTUAL EXISTING CONDITION MAY AFFECT SCOPE OF WORK. CONTRACTOR TO VERIFY EXISTING CONDITION AND ADJUST WORK ACCORDINGLY. DEMOLITION AND REBUILDING OF NEW DRIVEWAY MAY NOT BE NECESSARY.

EASEMENT FROM DANIEL P. SHARICK TO MARY L. SHARICK FOR WATER, STORM, SANITARY, GAS, UNDERGROUND ELECTRICAL, TELEPHONE, AND TELEGRAPH CABLES DV. 977, PG. 329 (no other restrictions stated)(No utilities located per OUPS Locate Request)

DAYLIGHT UNDERDRAIN

WELCOME TO SHEFFIELD

NOTES:

1. SEE LEGEND AND NOTES ON SHEET 13

STA. 19+25 — END

GR UN BR CO

STA=19+50 STA=20+00 STA=20+50 STA=21+00 STA=21+50 STA=22+00 STA=22+50 STA=23+00 STA=23+50 STA=24+00 STA=24+37

116+00 117+00 118+00 119+00 120+00

L1 L12

P-STM-OUTLET P-SMH-3 P-STM-2004 P-SMH-4

6" "P" BEAM POSTS

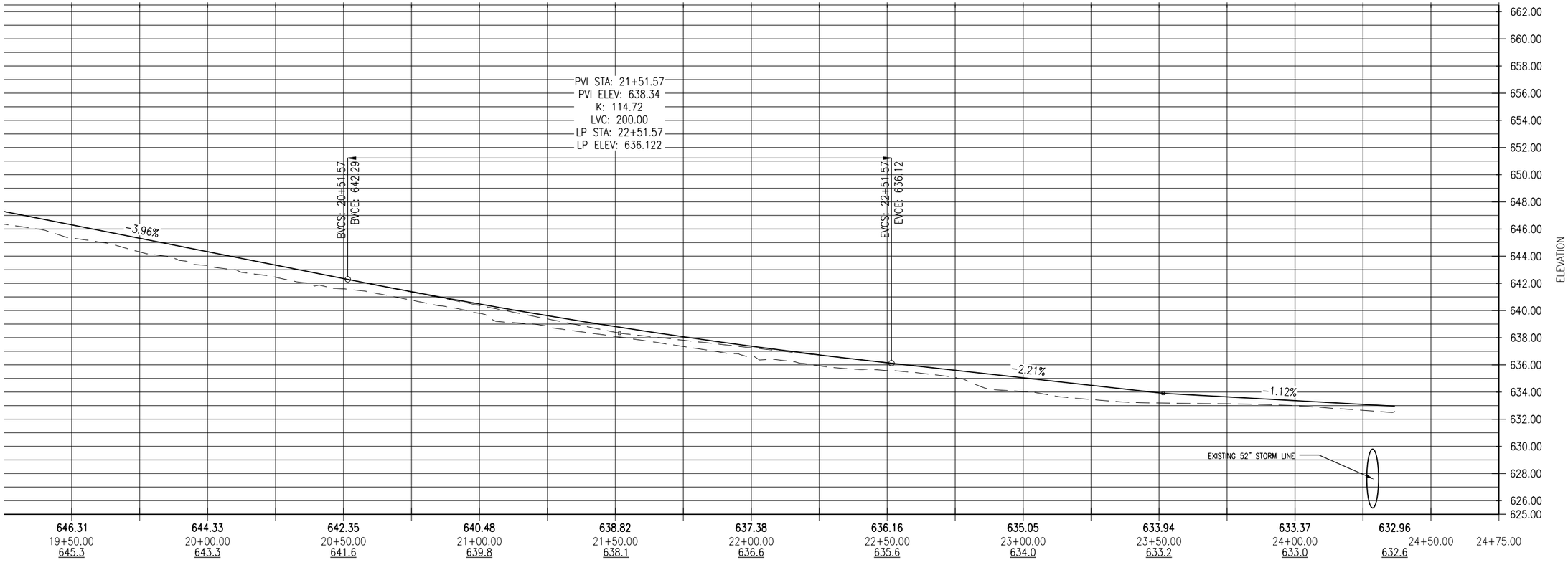
Ex. UT ESMT

OHE

CONCRETE DRIVEWAY

ASPHALT PAVEMENT

M.H.S. CNPT 5



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CHECKED

PLAN AND PROFILE SHEET STA. 19+25 - STA. 24+37

LOR-FRENCH CREEK BIKEWAY

17
42

1" 0.5" 0

34" x 22"

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	0
0	0		
		13	1
12	1		
		20	0
31	1		
		15	1
33	1		
		14	3
27	3		
TOTAL TO THIS SHEET.		103	6	62	5

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		24	3
13	0		
		20	1
10	0		
		14	3
5	2		
		9	4
4	2		
		4	24
0	24		
TOTAL TO THIS SHEET.		32	28	71	35

CALCULATED DS
CHECKED JK

CROSS SECTIONS
STA. 0+00 - STA. 4+50

LOR-FRENCH CREEK
BIKEWAY

19
42

0 0.5" 1"

34" x 22"

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3	44
3	24		
		4	53
1	33		
		1	79
0	52		
		0	103
0	59		
		0	109
0	58		
4	226	8	388

TOTAL TO THIS SHEET.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1	102
0	52		
		1	108
1	64		
		2	91
2	34		
		4	67
2	38		
		4	83
2	51		
7	239	12	451

TOTAL TO THIS SHEET.

CALCULATED DS
CHECKED JK

CROSS SECTIONS
STA. 5+00 - STA. 9+50

LOR-FRENCH CREEK BIKEWAY

20
42

34" x 22"

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3	111
1	68		
		4	156
3	101		
		4	242
1	161		
		2	335
1	200		
TOTAL TO THIS SHEET.	6	530	13	844

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3	375
2	209		
		7	382
5	204		
		9	290
4	69		
TOTAL TO THIS SHEET.	11	482	19	1047

CALCULATED DS
CHECKED JK

CROSS SECTIONS
STA. 10+00 - STA. 13+00

LOR-FRENCH CREEK BIKEWAY

0 0.5" 1"

34" x 22"

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		44	31
47	33		
		53	155
11	163		
58	196	97	186

TOTAL TO THIS SHEET.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		13	352
3	172		
		5	321
2	174		
		4	312
2	162		
7	508	22	985

TOTAL TO THIS SHEET.

CALCULATED DS
CHECKED JK

CROSS SECTIONS
STA. 17+00 - STA. 19+00

LOR-FRENCH CREEK BIKEWAY

22
42

0 0.5" 1"

34" x 22"

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4	285
2	146		
		4	231
1	104		
		4	123
3	29		
		6	57
4	33		
		7	64
3	36		
TOTAL TO THIS SHEET.			
13	348	25	760

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		6	66
3	35		
		7	59
5	29		
		6	69
2	45		
		6	65
5	25		
		12	41
8	19		
TOTAL TO THIS SHEET.			
23	153	37	300
TOTAL TO GENERAL SUMMARY			
264	2816	366	5001

CALCULATED DS
CHECKED JK

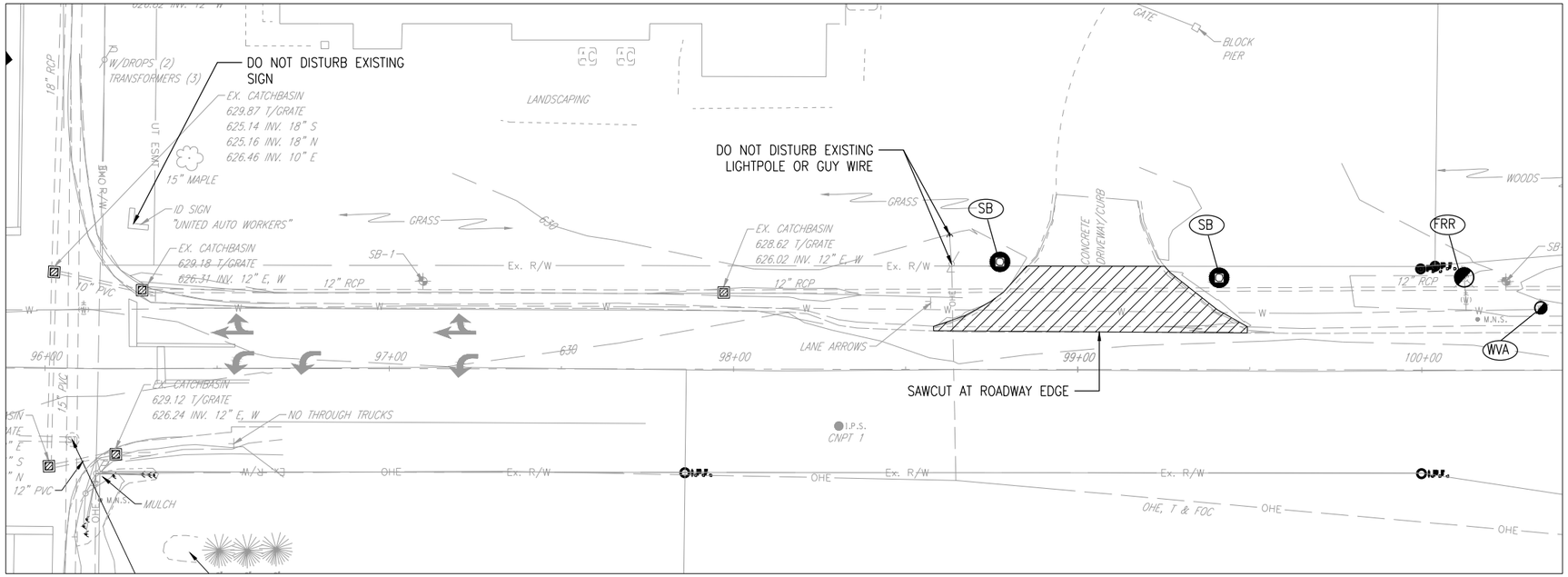
CROSS SECTIONS
STA. 19+50 - STA. 24+00

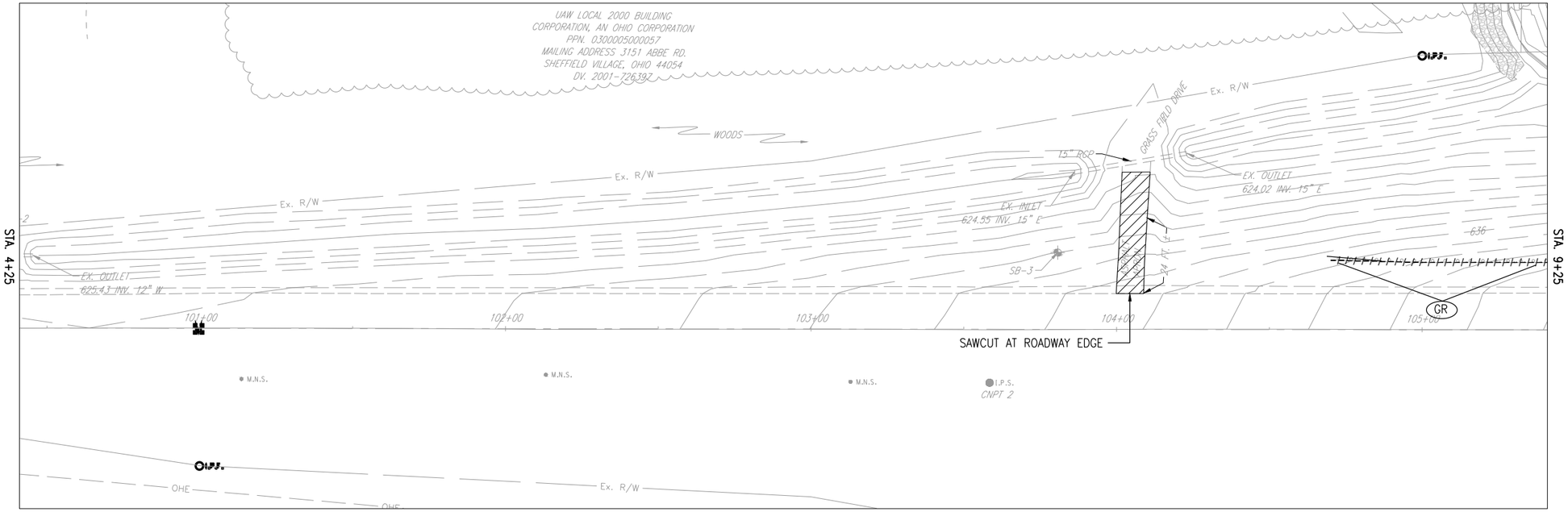
LOR-FRENCH CREEK
BIKEWAY

23
42

0 0.5" 1"

34" x 22"





LEGEND:

- PR – ITEM 202 –PAVEMENT REMOVED
- VG – ITEM 201 – CLEARING AND GRUBBING, A.P.P.
- GR – ITEM 202 – GUARDRAIL REMOVED A.P.P.
- GRR – ITEM 202 GUARDRAIL REMOVED FOR REUSE. A.P.P.
- GPR – ITEM 202 – GUARD POST REMOVED
- WVA – ITEM 638 – VALVE BOX ADJUSTED TO GRADE.
- FRR – ITEM 638 – FIRE HYDRANT AND GATE VALVE REMOVED AND RESET, AS PER PLAN
- SB – ITEM 202 REMOVAL MISC.: SALVAGE EXISTING BOULDERS AS DIRECTED BY OWNER
- CONSTRUCTION LIMITS
- FR – ITEM 202 – GATE REMOVED, A.P.P.

NOTES:

1. FOR TRAIL AND APRON CROSS SECTIONS, SEE SHEETS 19–23.
2. FOR REMOVAL SUBSUMMARY TOTALS, SEE SHEET 26.
3. SEE SIGNAGE PLANS FOR SIGNAGE REMOVAL/ADJUSTMENT, SEE SHEETS 27–29.
4. FOR TRAIL SUBSUMMARY AND PAVEMENT CALCULATIONS, SEE SHEET 12.
5. FOR DRAINAGE SUBSUMMARY, SEE SHEET 12.

HORIZONTAL SCALE IN FEET
0 10 20 40

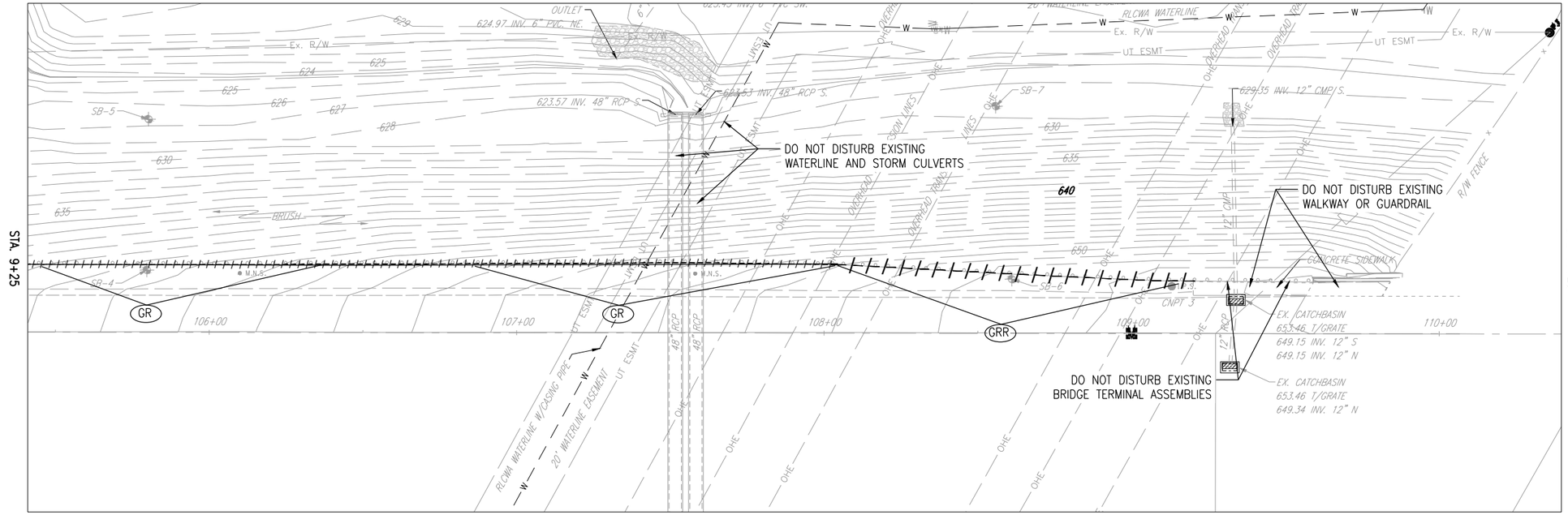
CALCULATED | CHECKED

DEMOLITION PLAN
STA. 0+00 - STA. 9+25

LOR-FRENCH CREEK BIKEWAY

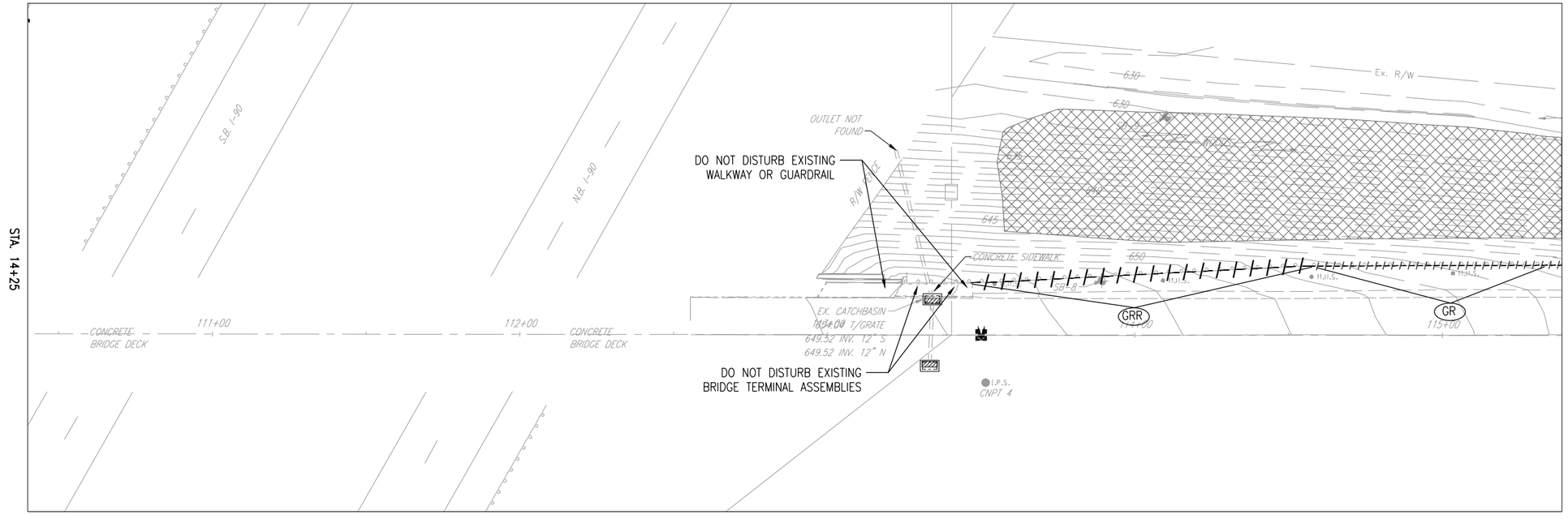
1" 0.5" 0

34" x 22"



NOTE:

1. NOTES SEE SHEET 24
2. LEGEND SEE SHEET 24



DEMOLITION PLAN
STA. 9+25 - STA. 19+25

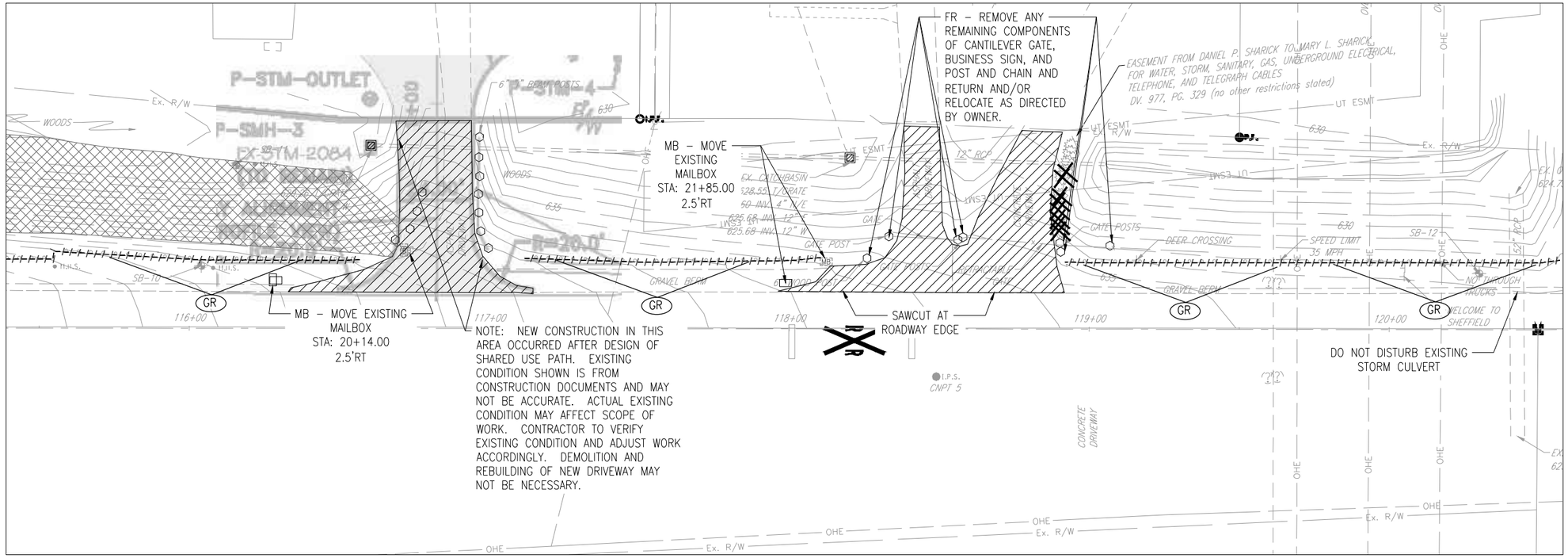
LOR-FRENCH CREEK
BIKEWAY

CALCULATED | CHECKED

HORIZONTAL
SCALE IN FEET
0 10 20 40

25
42

34" x 22"



NOTE:

1. NOTES SEE SHEET 24
2. LEGEND SEE SHEET 24

SHEET REMOVAL SUBSUMMARY

SHEET NO.	QUANTITY (COMPUTER GENERATED AREAS - SQ. FT.)	201 CLEARING & GRUBBING A.P.P.	202 PAVEMENT REMOVED (S.F./9)	202 REMOVAL MISC.: SALVAGE EXISTING BOULDERS AS DIRECTED BY OWNER	202 GUARDRAIL REMOVED A.P.P.	202 GUARDRAIL REMOVED FOR REUSE. A.P.P.	202 GATE REMOVED, A.P.P.	638 VALVE BOX ADJUSTED TO GRADE	638 FIRE HYDRANT AND VALVE REMOVED AND RESET, AS PER PLAN	690 SPECIAL – MAILBOX REMOVED AND RESET AS PER PLAN
		LUMP	S.Y.	EACH	FT.	FT.	EACH	EACH	EACH	EA
CALLOUT		VG	PV	SB	GR	GRR	FR	WVA	FRR	MB
24	1564	LUMP	146	LUMP	72			1	1	
25		LUMP			347	225				
26	3538	LUMP	466		385		1			2
TOTALS TO GENERAL SUMMARY		LUMP	612	LUMP	804	225	1	1	1	2

CALCULATED | CHECKED

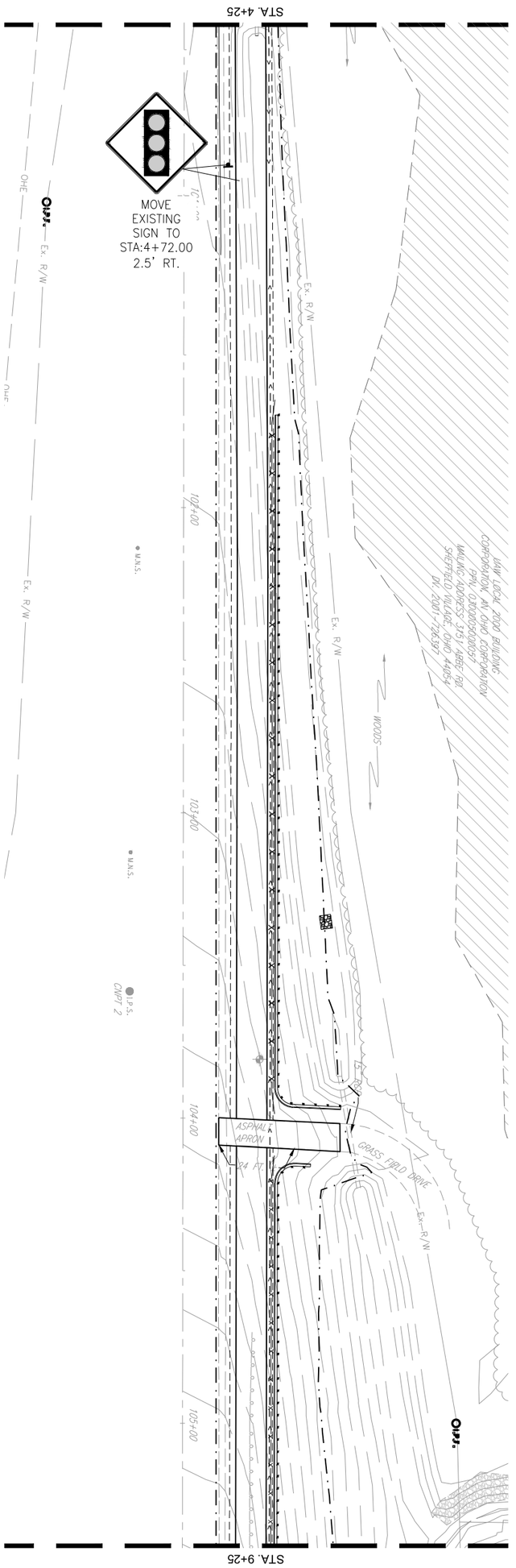
HORIZONTAL SCALE IN FEET 0 10 20 40

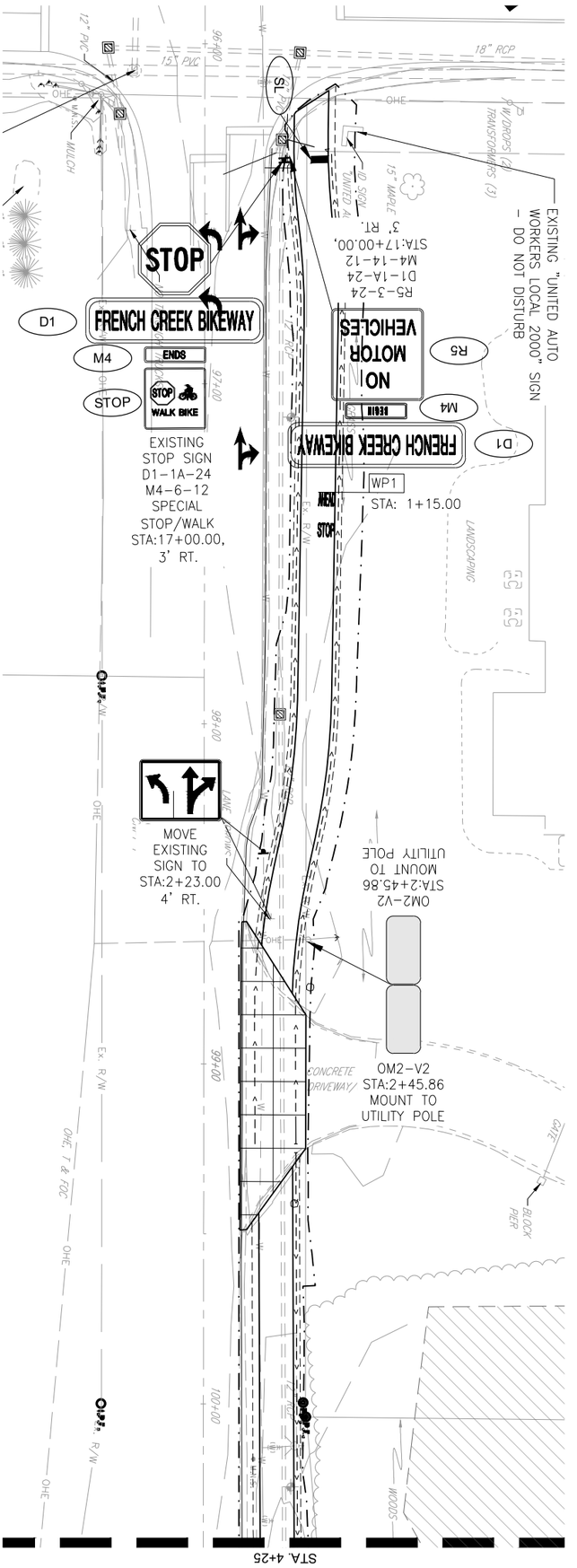
DEMOLITION PLAN
STA. 19+25 - STA. 24+37

LOR-FRENCH CREEK BIKEWAY

1" 0.5" 0

34" x 22"





LEGEND:

(SL) ITEM 642 - STOP LINE, TYPE 1

(WP1) ITEM 642 - WORD ON PAVEMENT, 48", TYPE 1

NOTE:

1. SEE SHEET 33 FOR SIGNAGE DETAILS.
2. SEE SIGNAGE SUBSUMMARY ON SHEET 29.
3. SEE SHEET 27 FOR SIGNAGE LEGEND.

27 / 42	LOR-FRENCH CREEK BIKEWAY	SIGNAGE PLAN STA. 0+00 - STA. 9+25	CALCULATED / CHECKED; HORIZONTAL SCALE IN FEET (0, 10, 20, 40); N

NOTE:

1. SEE SHEET 33 FOR SIGNAGE DETAILS.
2. SEE SIGNAGE SUBSUMMARY ON SHEET 29.
3. SEE SIGNAGE LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

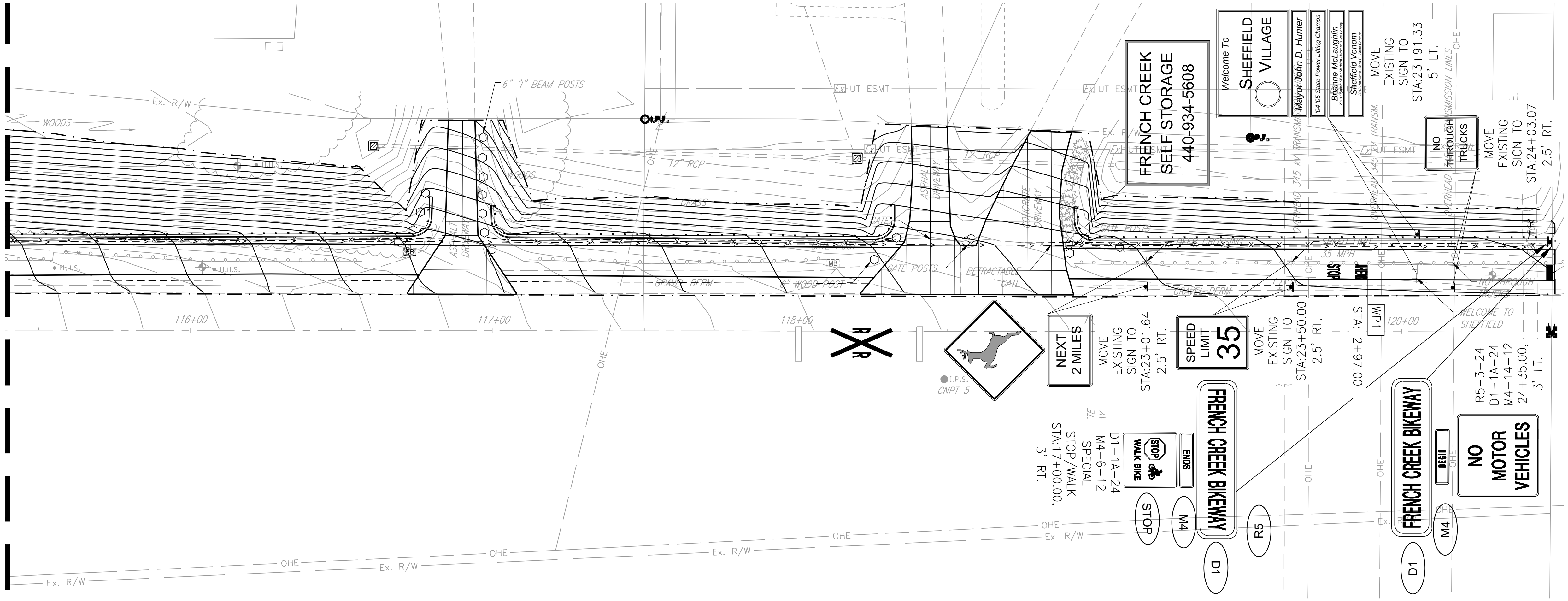
SIGNAGE PLAN
STA. 9+25 - STA. 19+25

LOR-FRENCH CREEK BIKEWAY

28
42

1" 0.5" 0

34" x 22"



NOTE:

1. SEE SHEET 33 FOR SIGNAGE DETAILS.
2. SEE SIGNAGE SUBSUMMARY ON SHEET 29.
3. SEE SHEET 27 FOR SIGNAGE LEGEND.

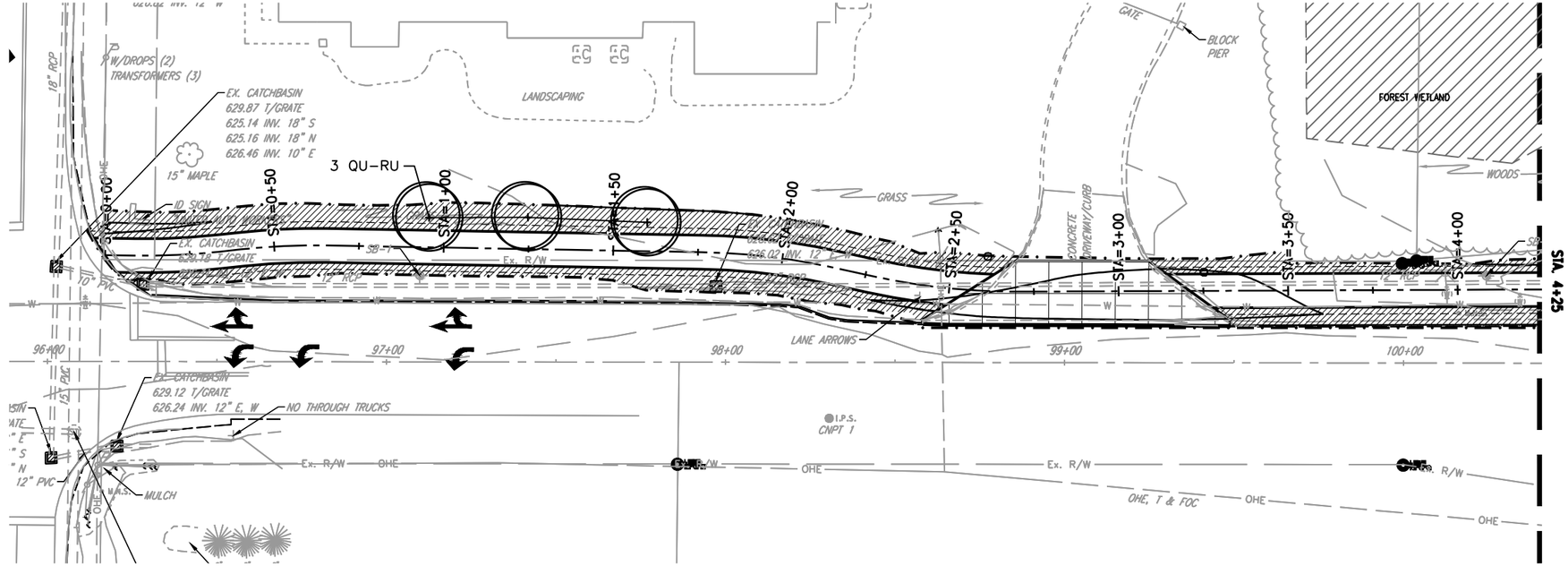
	SHEET NO.	630						630	642	642
		SIGN, FLAT SHEET, (QUAN. X S.F.)						GROUND MOUNTED SUPPORT NO. 3 POST	STOP LINE, TYPE 1	WORD ON PAVEMENT 48" TYPE 1
								L.F.	L.F.	EACH
REFERENCE ONLY		D1	M4	OM2	R5	STOP	EXIST		SL	WP1
SIZE (INCHES)		6X24	6X12	6X12	24X24	18X18	EACH			
	27	2	2	2	1	1	2		5	1
	28				2	2		28	10	2
	29	2	2		1	1	5	14	5	1
TOTAL SF. PER SIGN TYP		4.00	2.00	8.00	16.00	9.00				
TOTAL TO GEN. SUM.		39					7.00	42	20	4

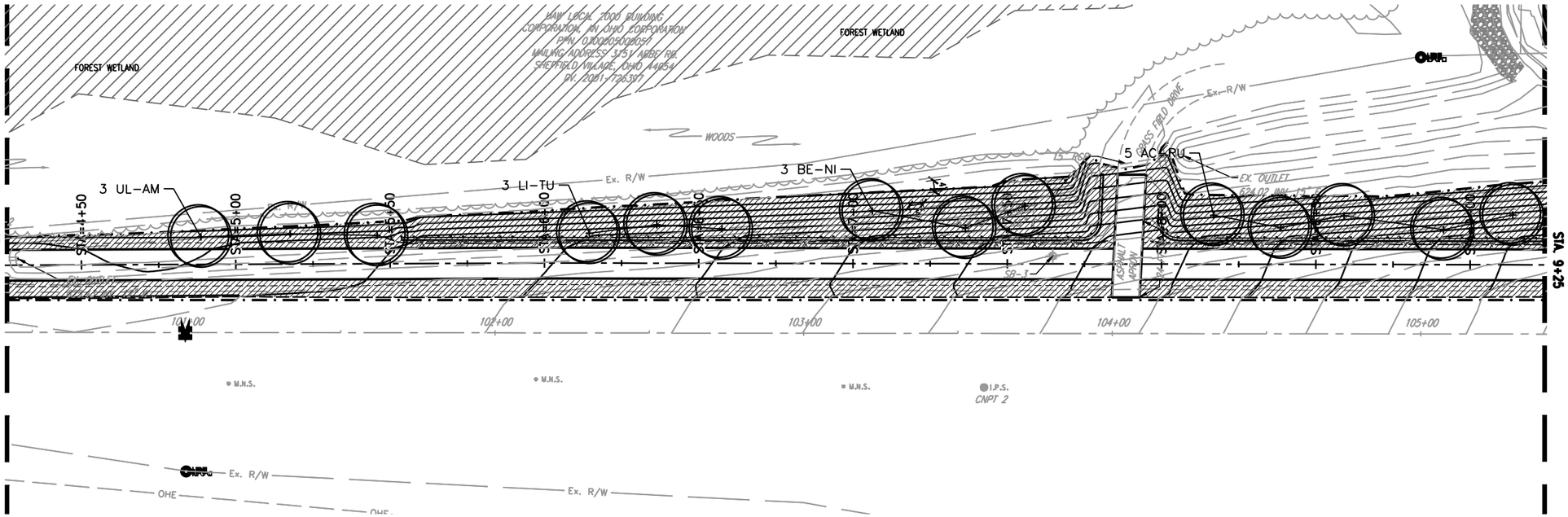
HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CHECKED

SIGNAGE PLAN STA. 19+25 - STA. 24+37

LOR-FRENCH CREEK BIKEWAY





LEGEND:

ITEM 659 – SEEDING AND MULCHING, CLASS 1, A.P.P.

ITEM 661 – DECIDUOUS TREE, 2–1/2" CALIPER

CONSTRUCTION LIMITS, TYP.

NOTE:

1. SEE PLANTING SUB-SUMMARY ON SHEET 32.
2. PROVIDE 4" TOPSOIL AND SEED ALL DISTURBED AREAS.

HORIZONTAL SCALE IN FEET
0 10 20 40

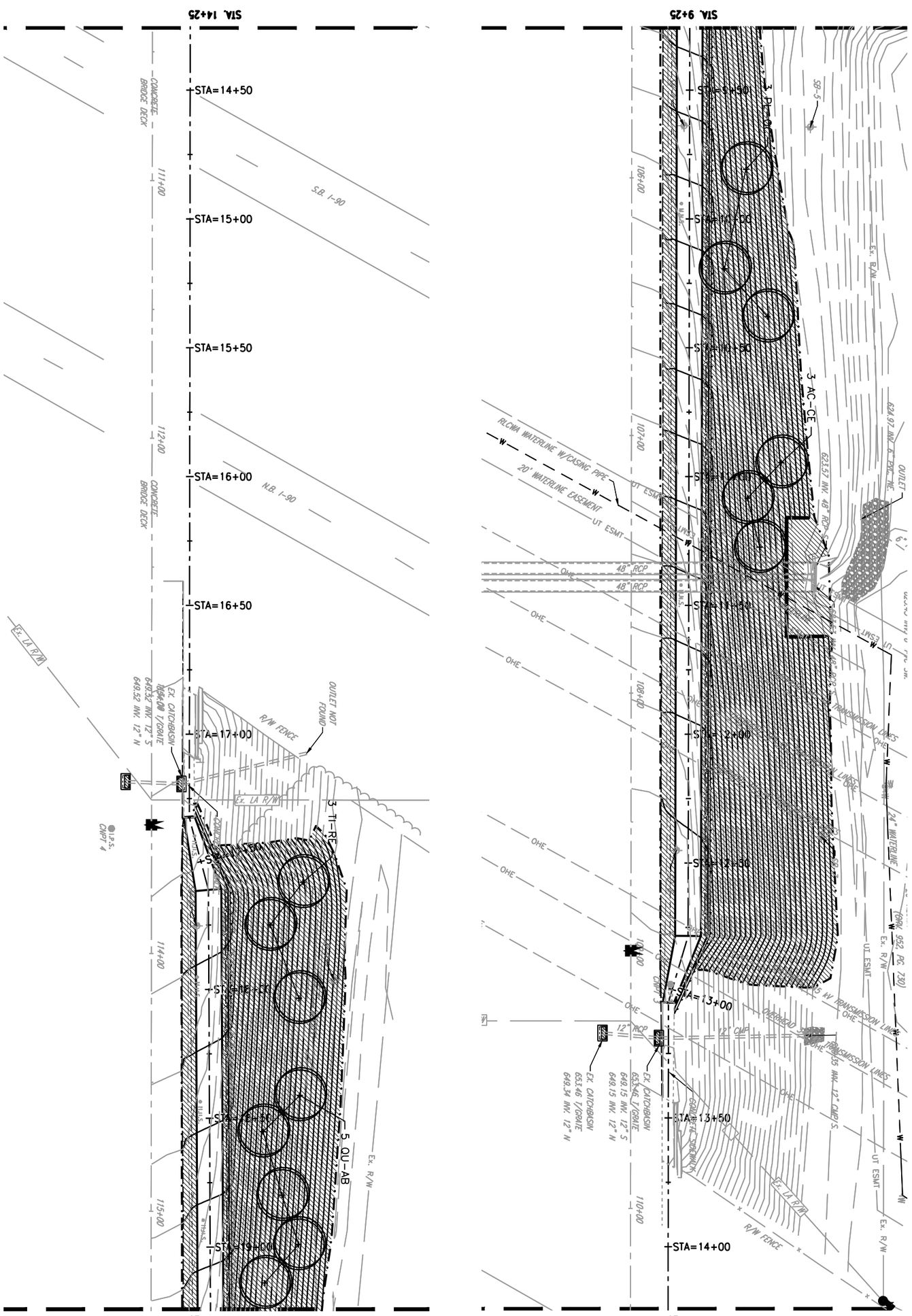
CALCULATED | CHECKED

PLANTING PLAN STA. 0+00 - STA. 9+25

LOR-FRENCH CREEK BIKEWAY

0 0.5"

34" x 22"



NOTE:
1. SEE PLANTING SUB-SUMMARY ON SHEET 32.
2. PROVIDE 4" TOPSOIL AND SEED ALL DISTURBED AREAS.

31/42	LOR-FRENCH CREEK BIKEWAY	PLANTING PLAN STA. 9+25 - STA. 19+25	CALCULATED / CHECKED	0 20 10 40 HORIZONTAL SCALE IN FEET

NOTE:

1. SEE PLANTING SUB-SUMMARY ON SHEET 32.
2. PROVIDE 4" TOPSOIL AND SEED ALL DISTURBED AREAS.

PLANTING SUBSUMMARY

SHEET NO.	659	661	661	661	661	661	661	661	661	661
	SEEDING AND MULCHING, CLASS 1, A.P.P.	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Acer x. F. 'Celzam' Celebration -Celebration Maple	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Acer Rubrum 'Somerset' - Somerset Red Maple	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Betula nigra 'Heritage' -Heritage River Birch	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Liriodendron tulipifera - Tuliptree	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Platanus occidentalis - American Sycamore	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Quercus alba - White Oak	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Quercus rubra -Red Oak	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Tilia americana 'Redmond' - Redmond Linden	DECIDUOUS TREE 2-1" CALIPER, AS PER PLAN Ulmus americana 'Valley Forge' - Valley Forge American Elm
	S.Y.	EA	EA	EA	EA	EA	EA	EA	EA	EA
	SEED	AC-CE	AC-RU	BE-NI	LI-TU	PL-OC	QU-AB	QU-RU	TI-RE	UL-AM
30	1600		5	3	3			3		3
31	3000	3			3	3	5		3	
32	1500		3	1						5
TOTALS TO GENERAL SUMMARY	6,100.00	3.00	8.00	4.00	6.00	3.00	5.00	3.00	3.00	8.00

HORIZONTAL SCALE IN FEET
0 10 20 40

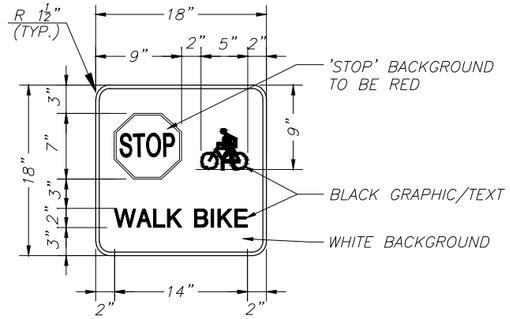
CALCULATED | CHECKED

PLANTING PLAN
STA. 19+25 - STA. 24+37

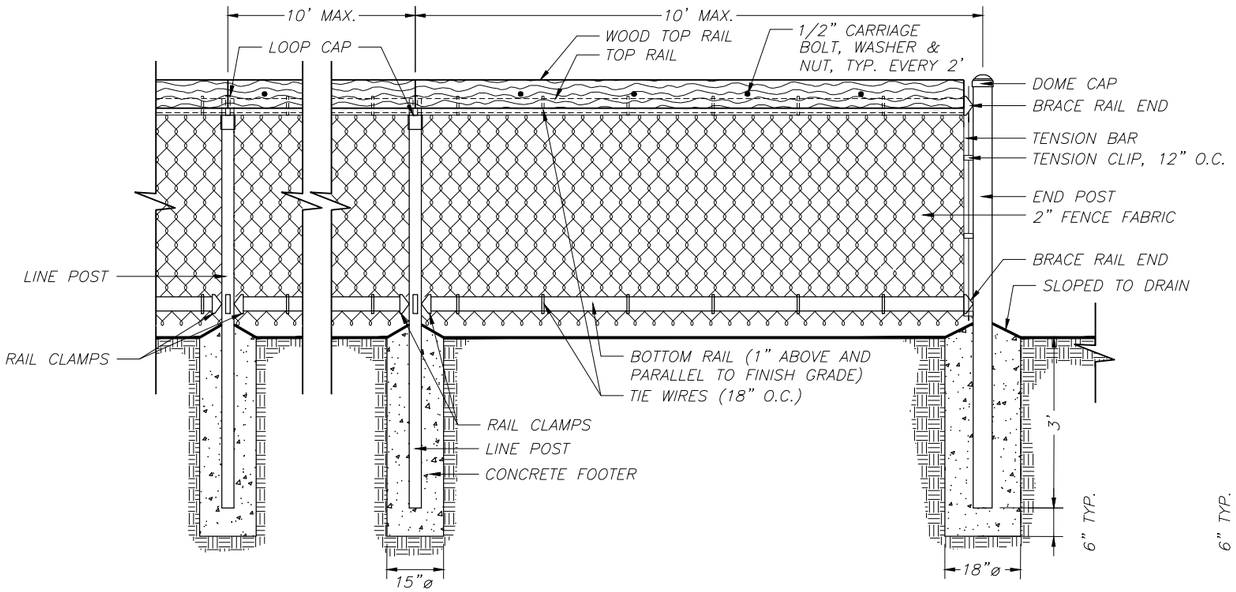
LOR-FRENCH CREEK BIKEWAY

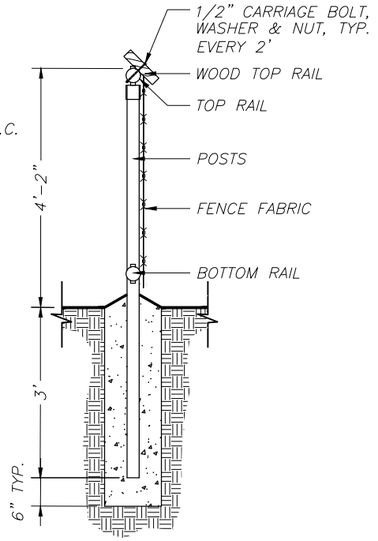
32
42

34" x 22"



ITEM #630: STOP/WALK BIKE SIGN
NOT TO SCALE





POST & RAIL SIZES:

WOOD TOP RAIL: 2"X8"X20' MAX, #1 OR BETTER S.Y.P. ACQ TREATED

TOP RAIL: 1.90 INCHES OD, 2.72 LBS. PER LINEAL FOOT.

BOTTOM RAIL: 1.66 INCHES OD, 2.27 LBS. PER LINEAL FOOT.

LINE POST: 1.90 INCHES OD, 2.72 LBS. PER LINEAL FOOT.

END AND CORNER POST: 2.375 INCHES, 3.65 LBS. PER LINEAL FOOT.

ALL POSTS TO BE ENCASED IN CONCRETE. ALL METAL FENCE MATERIALS TO BE HOT DIP GALVANIZED AND BLACK VINYL COATED PER ASTM F668, CLASS 2B.

SELVAGE – KNUCKLE AT BOTH SELVAGES.

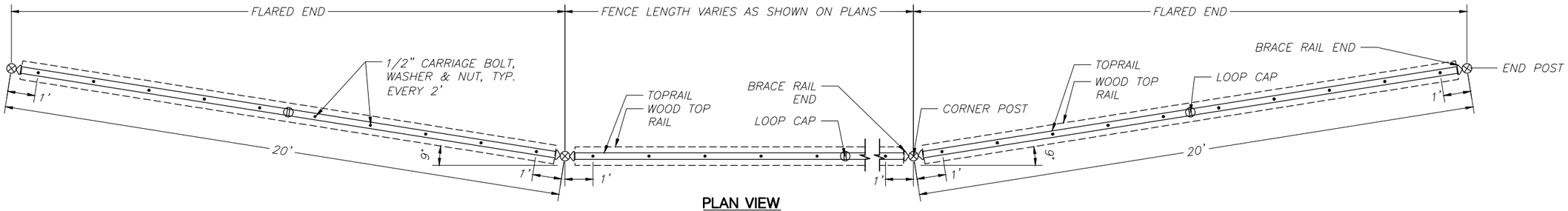
FENCE TO HAVE TOP AND BOTTOM RAILS, NO TENSION WIRE WILL BE ACCEPTABLE

WOOD TOP RAILING ATTACHMENT HARDWARE TO BE TYPE 311 STAINLESS STEEL. ALL CHAIN LINK FENCE ATTACHMENT HARDWARE TO BE GALV. AND POWDER COATED TO MATCH FRAMEWORK. PROVIDE A WOOD RAILING THAT IS SMOOTH AND SPLINTER FREE.

PROVIDE A SHOP AND LAYOUT DRAWING OF ALL COMPONENTS THAT COORDINATES WITH LOCATION OF GUARDRAIL FOR REVIEW AND APPROVAL BY ENGINEER.

INCLUDE THE COST OF FURNISHING AND PLACING ALL POSTS, RAILS, AND HARDWARE IN THE UNIT PRICE BID FOR

ITEM SPECIAL – BIKEWAY RAILING



PLAN VIEW

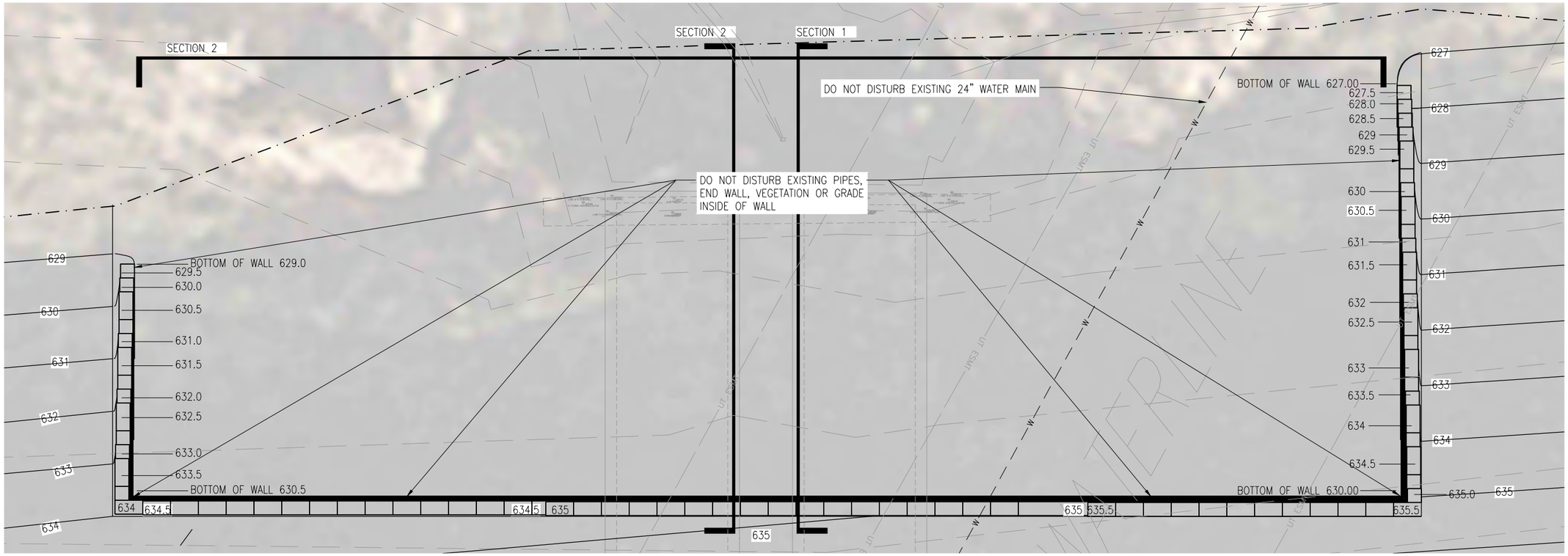
ITEM SPECIAL: BIKEWAY RAILING

CALCULATED DS CHECKED JK

DETAILS/ENLARGMENTS

LOR-FRENCH CREEK BIKEWAY

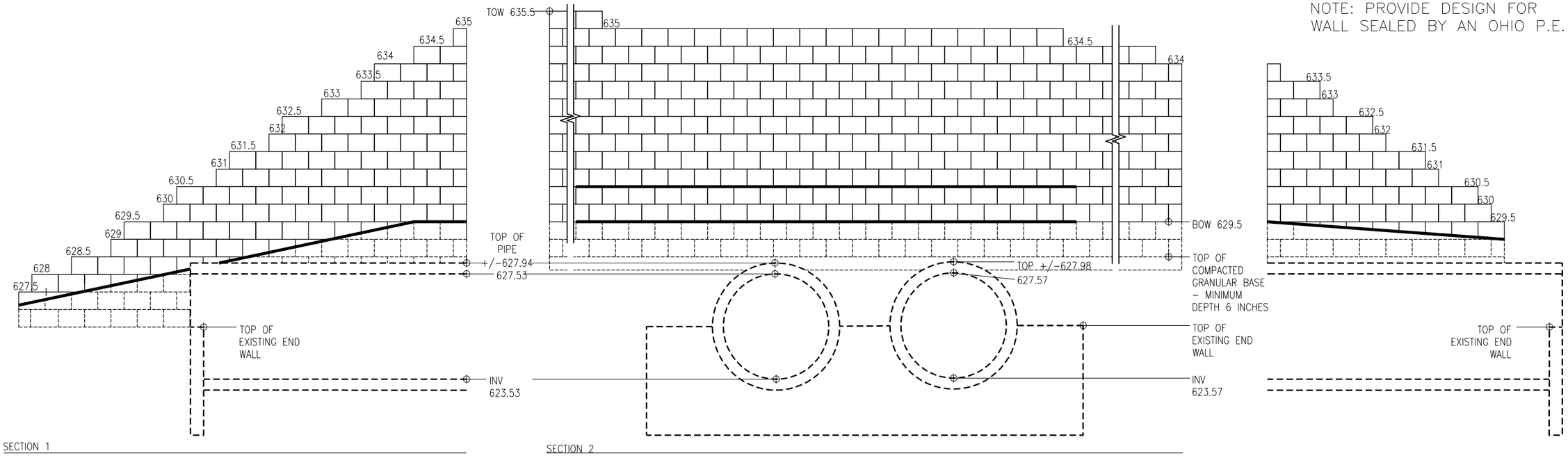
34" x 22"



ITEM SPECIAL- RETAINING WALL PLAN

HORIZONTAL SCALE IN FEET

NOTE: PROVIDE DESIGN FOR WALL SEALED BY AN OHIO P.E.



ITEM SPECIAL- RETAINING WALL ELEVATIONS

CALCULATED DS CHECKED JK

DETAILS/ENLARGMENTS

LOR-FRENCH CREEK BIKEWAY

34" x 22"

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / T.S | DRILL RIG: ATV CME-55 | STATION / OFFSET: 0+90, RT. | EXPLORATION ID B-001-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD | PAGE 1 OF 1
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 629.3 (MSL) EOB: 6.0 ft.
START: 3/14/22 END: 3/14/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 99* | LAT / LONG: 41.449503, -82.076105

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
4" Topsoil	629.3																		
STIFF, BROWN/GRAY, **ELASTIC CLAY**, SOME SILT, TRACE SAND, MODEATELY ORGANIC, MOIST (Fill)	629.0	1	4 8 9	18	33	SS-1	3.00	5	8	10	44	33	65	34	31	31	A-7-5 (20)	-	
** Organic Content = 5.1%	627.3	2																	
STIFF, BROWN/GRAY, **CLAY**, SOME SILT, TRACE SAND, SLIGHTLY ORGANIC, MOIST	625.3	3	7 9 8	26	54	SS-2	3.00	1	2	6	46	45	51	26	25	30	A-7-6 (16)	-	
VERY STIFF TO HARD, BROWN TO GRAY, **SILT AND CLAY**, TRACE SAND, TRACE TO SOME GRAVEL, MOIST	623.3	4 5 6	10 15 18 24	50	38	SS-3	4.00	-	-	-	-	-	-	-	-	26	A-6a (V)	-	
		COB																	

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / J.J | DRILL RIG: TRUCK D-50 | STATION / OFFSET: 4+10, RT. | EXPLORATION ID B-002-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD | PAGE 1 OF 1
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 628.5 (MSL) EOB: 6.0 ft.
START: 3/11/22 END: 3/11/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 90* | LAT / LONG: 41.449483, -82.074922

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
4" Topsoil	628.5																		
MEDIUM STIFF, GRAY, **CLAY**, SOME SILT, TRACE CINDERS, MODERATELY ORGANIC, MOIST (Fill)	628.0	1	4 4 4	12	68	SS-1	2.50	6	13	13	39	29	49	26	23	26	A-7-6 (13)	-	
STIFF, BROWN/GRAY, **SILT AND CLAY**, TRACE TO SOME GRAVEL, MODERATELY ORGANIC, MOIST	626.5	2 3 4	5 5 6 8	17	100	SS-2	2.50	4	7	12	42	35	36	21	15	30	A-6a (10)	-	
** Organic Content = 4.6%	622.5	5 6	6 7 12	20	68	SS-3	3.00	-	-	-	-	-	-	-	-	27	A-6a (V)	-	
		COB																	

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / J.J | DRILL RIG: TRUCK D-50 | STATION / OFFSET: 7+60, RT. | EXPLORATION ID B-003-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD | PAGE 1 OF 1
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 633.0 (MSL) EOB: 6.0 ft.
START: 3/11/22 END: 3/11/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 90* | LAT / LONG: 41.449505, -82.073581

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	632.5																		
STIFF, BROWN/GRAY, **SILT AND CLAY**, TRACE TO LITTLE GRAVEL, TRACE TO LITTLE SAND, MOIST (Clean Fill)	631.0	1	2 6 5	15	100	SS-1	2.50	5	12	13	41	29	29	18	11	14	A-6a (7)	-	
STIFF, BROWN/GRAY, **CLAY**, SOME SILT, TRACE GRAVEL, TRACE TO LITTLE SAND, MOIST (Clean Fill)	629.0	2 3 4	5 7 9	18	100	SS-2	3.00	3	6	10	34	47	42	20	22	18	A-7-6 (13)	-	
VERY STIFF, BROWN/GRAY, **SILT AND CLAY**, TRACE TO LITTLE GRAVEL, TRACE TO LITTLE SAND, MOIST	627.0	5	8 9 12	26	100	SS-3	3.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
		COB																	

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / J.J | DRILL RIG: TRUCK D-50 | STATION / OFFSET: 9+60, RIGHT | EXPLORATION ID B-004-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD | PAGE 1 OF 1
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 641.4 (MSL) EOB: 20.0 ft.
START: 3/11/22 END: 3/11/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 90* | LAT / LONG: 41.449467, -82.072870

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	641.4																		
STIFF TO VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE GRAVEL, TRACE SAND, SLIGHTLY ORGANIC, MOIST (Fill)	640.9	1	4 6	15	89	SS-1	2.00	7	11	12	38	32	31	19	12	18	A-6a (8)	-	
		2 3 4	4 5 6	15	61	SS-2	2.00	7	11	12	38	32	32	18	14	17	A-6a (9)	-	
		5 6 7	4 5 5	15	72	SS-3	2.00	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
** Organic Content = 3.0%		8 9 10	2 3 6	14	72	SS-4	2.00	-	-	-	-	-	-	-	-	25	A-6a (V)	-	
@ 8.5 - 17.0' ft ; Trace Organics, Trace Cinders		11 12 13	4 5 7	18	94	SS-5	2.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
		14 15 16	5 7 9	24	78	SS-6	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
		17 18	4 6 9	23	89	SS-7	2.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
STIFF, GRAY, **SANDY SILT**, TRACE CLAY, TRACE SHALE, MOIST	622.9 / 621.4	19 20	9 23 49	108	100	SS-8	3.50	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
		COB																	

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

CALCULATED DS | CHECKED JK

SOIL BORINGS

LOR-FRENCH CREEK BIKEWAY

PROJECT:	BIKE TRAIL	DRILLING FIRM / OPERATOR:	ODOT / T.S	DRILL RIG:	ATV CME-55	STATION / OFFSET:	9+60, LT.	EXPLORATION ID
TYPE:	ROADWAY	SAMPLING FIRM / LOGGER:	ODOT / Z.O	HAMMER:	AUTOMATIC HAMMER	ALIGNMENT:	FRENCH CREEK RD	B-005-0-22
PID:	N/A SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	10/26/20	ELEVATION:	627.1 (MSL) EOB: 7.7 ft.	PAGE
START:	3/14/22 END: 3/14/22	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	90"	LAT / LONG:	41.449706 -82.072862	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	626.6																		
STIFF TO HARD, BROWN TO RED, **SILTY CLAY**, LITTLE TO SOME GRAVEL, TRACE TO LITTLE SAND, MOIST			2 3 6	14	78	SS-1	1.00	3	4	15	40	38	35	18	17	23	A-6b (11)	-	
@ 3 ft : Gray Till	623.6	TR																	
SHALE, GRAY, HIGHLY WEATHERED, STRONG.	619.4	619.6 COD	12 31 45	114	78	SS-2	2.00	-	-	-	-	-	-	-	-	11	Rock (V)	-	
			12 40 50/2"	-	100	SS-3	3.00	-	-	-	-	-	-	-	-	9	Rock (V)	-	
			50/2"	-	100	SS-4	4.00	-	-	-	-	-	-	-	-	4	Rock (V)	-	

PROJECT:	BIKE TRAIL	DRILLING FIRM / OPERATOR:	ODOT / T.S	DRILL RIG:	ATV CME-55	STATION / OFFSET:	12+45, RT.	EXPLORATION ID
TYPE:	ROADWAY	SAMPLING FIRM / LOGGER:	ODOT / Z.O	HAMMER:	AUTOMATIC HAMMER	ALIGNMENT:	FRENCH CREEK RD	B-007-0-22
PID:	N/A SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	10/26/20	ELEVATION:	628.5 (MSL) EOB: 13.75 ft.	PAGE
START:	3/14/22 END: 3/14/22	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	90"	LAT / LONG:	41.449674, -82.071813	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	628.5																		
STIFF, BROWN, **CLAY**, SOME SILT, LITTLE GRAVEL, MODERATELY ORGANIC, MOIST (Fill)	628.0		2 8 7	23	61	SS-1	2.00	13	4	8	39	36	42	21	21	22	A-7-6 (13)	-	
MEDIUM STIFF, BROWN, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MODERATELY ORGANIC, MOIST (Fill)	625.0		3 3 5	12	61	SS-2	2.00	8	10	10	38	34	35	21	14	15	A-6a (9)	-	
** Organic Content = 5.5%																			
@ 5.5 ft: Gray Till	622.0	TR																	
SHALE, GRAY, HIGHLY TO MODERATELY WEATHERED, SLIGHTLY STRONG.			23 50/4"	-	100	SS-3	-	-	-	-	-	-	-	-	-	14	Rock (V)	-	
			50/4"	-	100	SS-4	-	-	-	-	-	-	-	-	-	5	Rock (V)	-	
			50/3"	-	100	SS-5	-	-	-	-	-	-	-	-	-	4	Rock (V)	-	
	614.8	615.0 COD	50/5"	-	67	SS-6	-	-	-	-	-	-	-	-	-	5	Rock (V)	-	

PROJECT:	BIKE TRAIL	DRILLING FIRM / OPERATOR:	ODOT / T.S	DRILL RIG:	HAND HOLE	STATION / OFFSET:	17+90, RT.	EXPLORATION ID
TYPE:	ROADWAY	SAMPLING FIRM / LOGGER:	ODOT / Z.O	HAMMER:	SAFETY HAMMER	ALIGNMENT:	FRENCH CREEK RD	B-009-0-22
PID:	N/A SFN: N/A	DRILLING METHOD:	HAND AUGER	CALIBRATION DATE:	N/A	ELEVATION:	630.4 (MSL) EOB: 10.0 ft.	PAGE
START:	3/14/22 END: 3/14/22	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	60	LAT / LONG:	41.449577, -82.069836	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
5" Topsoil	630.4																		
MEDIUM STIFF TO STIFF, BROWN, **CLAY**, TRACE BRICK, TRACE GLASS, LITTLE ROOTING, MOIST (Fill)	630.0		2 2 3	4	29	SS-1	1.50	2	9	16	42	31	47	26	21	32	A-7-6 (13)	-	
	625.4		6 8 6 9	14	50	SS-2	2.00	8	6	10	35	41	41	22	19	22	A-7-6 (12)	-	
STIFF TO VERY STIFF, BROWN, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MOIST			6 8 7 9	15	50	SS-3	2.00	-	-	-	-	-	-	-	-	22	A-6a (V)	-	
			6 9 11 15	20	67	SS-4	2.50	-	-	-	-	-	-	-	-	23	A-6a (V)	-	
			7 12 16 23	28	63	SS-5	2.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
	620.4	COD																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

PROJECT:	BIKE TRAIL	DRILLING FIRM / OPERATOR:	ODOT / J.J	DRILL RIG:	TRUCK D-50	STATION / OFFSET:	12+40, RT.	EXPLORATION ID
TYPE:	ROADWAY	SAMPLING FIRM / LOGGER:	ODOT / Z.O	HAMMER:	AUTOMATIC HAMMER	ALIGNMENT:	FRENCH CREEK RD	B-006-0-22
PID:	N/A SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	10/26/20	ELEVATION:	652.4 (MSL) EOB: 30.0 ft.	PAGE
START:	3/9/22 END: 3/9/22	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	90"	LAT / LONG:	41.449463, -82.071789	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
3" Topsoil	652.4																		
MEDIUM STIFF, BROWN/GRAY, **CLAY**, TRACE TO SOME SAND, TRACE TO LITTLE GRAVEL, MOIST (Fill)	652.2		4 4 4	12	78	SS-1	2.00	2	4	8	35	51	45	23	22	21	A-7-6 (14)	-	
	648.9																		
MEDIUM STIFF TO STIFF, BROWN/GRAY, **SILT AND CLAY**, SOME SILT, TRACE GRAVEL, MODERATELY ORGANIC, MOIST (Fill)			2 3 4	11	78	SS-2	2.00	31	9	9	27	24	32	19	13	18	A-6a (4)	-	
			2 2 3	8	67	SS-3	1.50	-	-	-	-	-	-	-	-	13	A-6a (V)	-	
			2 3 3	9	61	SS-4	1.50	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
			2 5 7	18	83	SS-5	2.00	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
			5 8 9	26	94	SS-6	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			4 4 7	17	78	SS-7	2.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
			4 6 10	24	100	SS-8	2.00	-	-	-	-	-	-	-	-	13	A-6a (V)	-	
** Organic Content = 6.7%																			
VERY STIFF @ 23.5 - 28.5 ft : Black Slag			7 7 9	24	78	SS-9	3.00	-	-	-	-	-	-	-	-	36	A-6a (V)	-	
	623.9																		
HARD, BROWN, **SILT AND CLAY**, SHALE FRAGMENTS, MOIST (Gray Till)	622.4	COD	9 16 18	51	89	SS-10	3.50	-	-	-	-	-	-	-	-	13	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

PROJECT:	BIKE TRAIL	DRILLING FIRM / OPERATOR:	ODOT / T.S	DRILL RIG:	ATV CME-55	STATION / OFFSET:	17+75, RT.	EXPLORATION ID
TYPE:	ROADWAY	SAMPLING FIRM / LOGGER:	ODOT / Z.O	HAMMER:	AUTOMATIC HAMMER	ALIGNMENT:	FRENCH CREEK RD	B-008-0-22
PID:	N/A SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	10/26/20	ELEVATION:	652.1 (MSL) EOB: 30.0 ft.	PAGE
START:	3/14/22 END: 3/14/22	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	90"	LAT / LONG:	41.449451, -82.069849	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
4" Topsoil	652.1																		
LOOSE, BROWN, **SANDY SILT**, SOME GRAVEL, TRACE TO LITTLE SAND, LITTLE CLAY, MOIST (Clean Fill)	651.8		7 3 5	12	17	SS-1	2.00	50	7	7	23	13	27	18	9	12	A-4a (0)	-	
	648.6																		
STIFF, BROWN/GRAY, **SILT AND CLAY**, LITTLE TO SOME GRAVEL, MOIST (Clean Fill)			5 6 4	15	61	SS-2	2.00	5	10	12	42	31	33	20	13	17	A-6a (9)	-	
			2 4 5	14	61	SS-3	1.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
	642.6																		
STIFF TO HARD, BROWN TO GRAY, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MOIST			3 5 9	21	89	SS-4	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
			3 3 4	11	72	SS-5	2.00	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			4 6 6	21	83	SS-6	2.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
			3 7 10	26	78	SS-7	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			5 7 9	24	89	SS-8	2.00	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			4 5 7	18	94	SS-9	3.00	-	-	-	-	-	-	-	-	26	A-6a (V)	-	
	622.1	COD	13 19 26	68	94	SS-10	3.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

CALCULATED DS CHECKED JK

SOIL BORINGS

LOR-FRENCH CREEK BIKEWAY

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / J.J | DRILL RIG: TRUCK D-50 | STATION / OFFSET: 19+90, RT. | EXPLORATION ID B-010-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 644.1 (MSL) EOB: 20.0 ft. | PAGE 1 OF 1
START: 3/9/22 END: 3/9/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 90* | LAT / LONG: 41.449455, -82.069145

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	644.1																		
MEDIUM STIFF, DARK BROWN, **CLAY**, TRACE TO LITTLE GRAVEL, SLIGHTLY ORGANIC, MOIST (Possible Fill)	643.6		3 4 4	12	69	SS-1	2.00	2	7	11	36	44	45	23	22	14	A-7-6 (14)	-	
STIFF, DARK BROWN, **SILTY CLAY**, LITTLE SILT, TRACE TO LITTLE SAND, TRACE GRAVEL, MOIST (Possible Fill) ** Organic Content = 2.2%	640.6		3 4 5	14	61	SS-2	2.00	5	7	10	35	43	39	21	18	22	A-6b (11)	-	
STIFF TO VERY STIFF, BROWN TO GRAY, **SILT AND CLAY**, TRACE GRAVEL, TRACE GRAVEL, MOIST	638.1		3 5 5	15	61	SS-3	1.50	-	-	-	-	-	-	-	-	12	A-6a (V)	-	
			3 4 6	15	72	SS-4	1.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
			4 4 5	14	72	SS-5	2.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
			4 5 7	18	72	SS-6	2.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
			4 5 5	15	89	SS-7	2.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
	624.1	COB	5 10 11	32	94	SS-8	3.00	-	-	-	-	-	-	-	-	13	A-6a (V)	-	

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / C.A | DRILL RIG: HAND HOLE | STATION / OFFSET: 20+05, RT. | EXPLORATION ID B-011-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: SAFETY HAMMER | ALIGNMENT: FRENCH CREEK RD
PID: N/A SFN: N/A | DRILLING METHOD: HAND AUGER | CALIBRATION DATE: N/A | ELEVATION: 631.1 (MSL) EOB: 8.0 ft. | PAGE 1 OF 1
START: 3/10/22 END: 3/10/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 60 | LAT / LONG: 41.449597, -82.069102

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	631.1																		
MEDIUM STIFF TO STIFF, BROWN/BLACK, **CLAY**, SOME SILT, LITTLE BRICK, MODERATELY ORGANIC, MOIST (Fill) ** Organic Content = 5.5%	630.6		4 3 6	7	25	SS-1	2.00	9	6	10	32	43	42	23	19	31	A-7-6 (12)	-	
	627.1		8 6 4	14	33	SS-2	2.50	11	15	16	34	23	51	28	23	36	A-7-6 (11)	-	
STIFF TO VERY STIFF, BROWN/GRAY, **SILT AND CLAY**, TRACE GRAVEL AND ROCK FRAGMENTS, MOIST			3 7 8	15	46	SS-3	2.50	-	-	-	-	-	-	-	-	22	A-6a (V)	-	
	623.1	COB	8 12 11 13	23	50	SS-4	3.00	-	-	-	-	-	-	-	-	21	A-6a (V)	-	

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

PROJECT: BIKE TRAIL | DRILLING FIRM / OPERATOR: ODOT / J.J | DRILL RIG: TRUCK D-50 | STATION / OFFSET: 24+15, RT. | EXPLORATION ID B-012-0-22
TYPE: ROADWAY | SAMPLING FIRM / LOGGER: ODOT / Z.O | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: FRENCH CREEK RD
PID: N/A SFN: N/A | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/26/20 | ELEVATION: 633.5 (MSL) EOB: 6.0 ft. | PAGE 1 OF 1
START: 3/11/22 END: 3/11/22 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 90* | LAT / LONG: 41.449441, -82.067612

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
6" Topsoil	633.5																		
MEDIUM STIFF TO STIFF, BROWN/GRAY, **SILT AND CLAY**, LITTLE GRAVEL, TRACE SAND, SLIGHTLY ORGANIC, MOIST (Clean Fill)	633.0		4 6 2	15	54	SS-1	2.50	44	10	10	20	16	36	21	15	18	A-6a (1)	-	
	629.5		2 3 5	8	75	SS-2	2.50	7	10	12	30	41	33	21	12	19	A-6a (8)	-	
MEDIUM STIFF, BROWN/ GRAY, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MOIST	627.5	COB	3 4 3	11	92	SS-3	2.50	14	18	8	36	24	-	-	-	24	A-6a (V)	-	

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

CALCULATED DS | CHECKED JK

SOIL BORINGS

LOR-FRENCH CREEK BIKEWAY

37
42

SHEFFIELD VILLAGE
LOR CR 0606 09.50
FRENCH CREEK
LORAIN COUNTY
STATE OF OHIO
T-7 N, R-17 W
OF THE CONNECTICUT WESTERN RESERVE
PART OF ORIGINAL SHEFFIELD TOWNSHIP
ORIGINAL LOT 5

UTILITIES
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

OHIO EDISON CO. (DISTRIBUTION)
NATALIE CAMP
6326 LAKE AVENUE
ELYRIA, OH 44035
PH: 440-326-3319
EMAIL: NCAMP@FIRSTENERGYCORP.COM

ALAN D. SCHEMPP, P.E. (TRANSMISSION)
FIRSTENERGY SERVICE COMPANY
TRANSMISSION ENGINEERING DESIGN
76 S. MAIN ST.
AKRON, OH 44308
EMAIL: ASCHEMPP@FIRSTENERGYCORP.COM

CENTURY TEL OF OHIO INC.
GERONIMO SALES
1730 WEST 19TH ST.
LORAIN, OHIO 44052
EMAIL: GERONIMO.O.SALES@CENTURYLINK.COM

SHEFFIELD VILLAGE WATER/SERVICE DEPARTMENT
4480 COLORADO AVENUE
SHEFFIELD VILLAGE, OH 44054
EMAIL: KENK@SHEFFIELDVILLAGE.COM
ATTN: KEN KACZAY
EMAIL: KIMA@SHEFFIELDVILLAGE.COM
ATTN: KIM ACKERMAN

RURAL LORAIN COUNTY WATER AUTHORITY
42401 S.R. 303
LAGRANGE, OH 44050
EMAIL: PROJECTS@RLCWA.COM
ATTN: JIM TRUESDELL

WOW CABLE
DAVID RINALDI
EMAIL: DAVID.RINALDI@WOWINC.COM

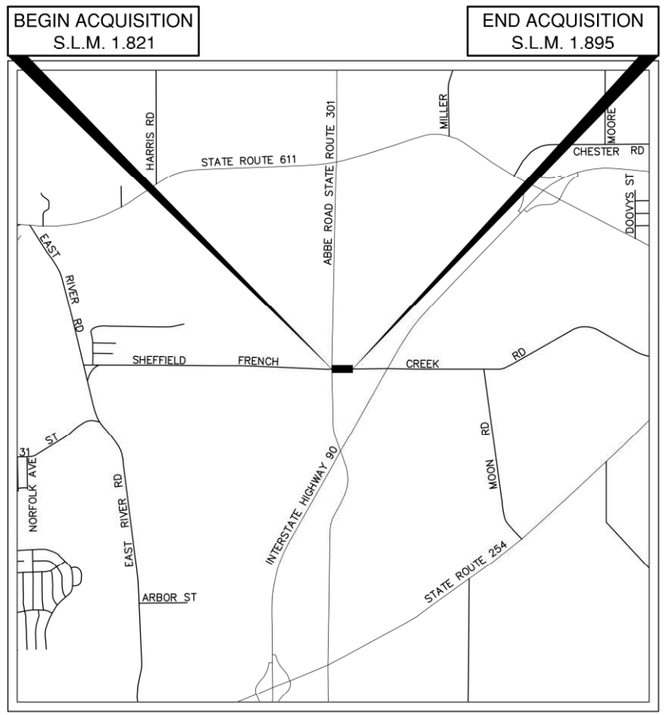
COLUMBIA GAS CO.
ADAM WOODIE
3101 NORTH RIDGE ROAD, EAST
LORAIN, OH 44055
440-240-6144
AWOODIE@NISOURCE.COM

SPECTRUM
MARTIN VAN KUREN
1801 ELYRIA AVENUE
LORAIN, OH 44052
216-854-0755
MARTY.VANKUREN@CHARTER.COM

UNITED STATES POST OFFICE
CHARLES HIRSCH
3190 COLOADO AVENUE
LORAIN, OH 44052
440-288-8593
EMAIL: CHARLES.E.HIRSCH@USPS.GOV

OHIO UTILITIES PROTECTION SERVICE
800-362-2764 (OR 811)
WWW.OUPS.ORG

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. THEY ARE APPROXIMATE ONLY, THE ENGINEER AND OWNER CANNOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES AS TO LINE AND GRADE BEFORE STARTING ANY WORK.



LOCATION MAP
NOT TO SCALE

LATITUDE: 41° 44' N LONGITUDE: 82° 07' W

INDEX OF SHEETS

LEGEND SHEET 1
CENTERLINE PLAT 2-3
PROPERTY MAP/SUMMARY OF ADDITIONAL R/W . . 4
RIGHT OF WAY DETAIL 5

CONVENTIONAL SYMBOLS

MONUMENT BOX FOUND	M
MAG NAIL SET-TEMP CONTROL	• M.N.S.
IRON PIN SET W/ ID CAP	● I.P.S.
IRON PIN FOUND W/ ID CAP	I.P.F.
IRON PIN FOUND	I.P.F.
IRON PIPE FOUND	P.F.
EROSION CONTROL	
CATCHBASIN	
STORM MANHOLE	ST
HANDICAP PARKING	
PAINTED RAILROAD CROSSING	
PAINTED TURN ARROWS	
CELL TOWER	
TRUNCATED DOME	
AIR CONDITIONING	AC
TRAFFIC CONTROL BOX	TR
GUY WIRE	
ROCK	
PAPER BOX	PB
MAILBOX	MB
POST/BOLLARD	
SIGN	
WATER LINE MARKER	W
WATER VALVE	
WATER SERVICE VALVE	WS
FIRE HYDRANT	
SOIL BORING	
BUSH	

EXISTING RAILROAD TRACKS	
EXISTING STORM SEWER	
EXISTING ELECTRIC LINE	E
EXISTING TELEPHONE	T
EXISTING FENCE	x
EXISTING SHOULDER	
EXISTING LANDSCAPING	
EXISTING HEADWALL	
EXISTING PAINT EDGE LINE	
EXISTING BUILDING	
EXISTING CONCRETE PAD	
EXISTING GUY LINE	
EXISTING CURB	
EXISTING CONTOUR MINOR	
EXISTING CONTOUR MAJOR	
EXISTING DRIVEWAY	
EXISTING EDGE OF PAVEMENT	
EXISTING WALK	
EXISTING STOP BAR	
EXISTING LANE LINE	
GUARDRAIL	
CENTER LINE	3 4 5
EXISTING SH:	SH
EXISTING RIGHT OF WAY	Ex. R/W
PROPOSED RIGHT OF WAY	SH
TEMPORARY RIGHT OF WAY:	TMP
PROPERTY LINE:	PL
OWNERSHIP HOOK:	
CONSTRUCTION LIMITS:	CONSTRUCTION LIMITS (OR CONST. LIMITS)
UTILITY POLES: TELEPHONE:	P
POWER:	P
LIGHT:	P
EXISTING GASLINE:	G
WATERLINE:	W
SANITARY:	SAN
TREES: TREELINE:	(TO BE REMOVED)

PROJECT DESCRIPTION

THE FRENCH CREEK BIKEWAY PROJECT CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 0.46 MILES OF SHARED USE PATH ALONG FRENCH CREEK ROAD IN THE VILLAGE OF SHEFFIELD. THE BIKEWAY HAS AN EAST WEST ORIENTATION BEGINNING AT ABBE ROAD AND HEADING EAST TO SHEFFIELD/AVON MUNICIPAL BOUNDARY.

NOTE:
THE EXISTING AND PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY FRENCH CREEK ROAD.

THIS PLAN PREPARED BY:

52 N. Diamond Street
Mansfield, OH 44902
T: 419-525-0093

526 E. Broad Street
Elyria, OH 44035
T: 440-323-9608

KEM
K.E. McCARTNEY & ASSOCIATES
ENGINEERS · PLANNERS · SURVEYORS

R/W DESIGNER: MATTHEW D. DAWSON

R/W REVIEWER: NATHANIEL B. RAMSEY, P.S.

FIELD REVIEWER: KENNETH A. McCARTNEY, P.S.

PRELIMINARY FIELD REVIEW DATE: 07/26/2022

TRACINGS FIELD REVIEW DATE: *09/13/2022*

OWNERSHIP UPDATED BY: MATTHEW D. DAWSON

DATE COMPLETED: 09/12/2022

PLAN COMPLETION DATE: *09/13/2022*

PARCEL LEGEND

SH = STANDARD HIGHWAY EASEMENT
T = TEMPORARY EASEMENT

STRUCTURE KEY

RESIDENTIAL
COMMERCIAL
OUT-BUILDING

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

behnke
LANDSCAPE ARCHITECTURE
1215-B West 10th Street
Cleveland, Ohio 44113-1291
P: 216.589.9100 F: 216.589.8560
W: www.behnkela.com
E: info@behnkela.com

I, NATHANIEL B. RAMSEY, P.S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE LORAIN COUNTY METROPOLITAN PARK DISTRICT IN NOVEMBER, 2021. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THEIR LOCATION AS MARKED ON THE GROUND BY THE UTILITY COMPANY OR THEIR REPRESENTATIVES PER OHIO811 CONFIRMATION NUMBERS A215802920, A131903280, B215900113 WERE SURVEYED AND MAPPED AS A PART OF THIS PROJECT. OHIO811 UTILITY DAMAGE PREVENTION LAWS WERE FOLLOWED AND I HAVE NO DIRECT KNOWLEDGE OR CONTROL OF HOW THESE MARKS WERE PLACED, NOR KNOWLEDGE OF THE ACCURACY AS TO THEIR INTENDED DEPICTION OF SUBSURFACE UTILITY FACILITIES. SEE THE AFFIXED SURVEY PARAMETERS NOTE FOR THE HORIZONTAL AND VERTICAL SURVEY PARAMETERS USED FOR THIS PROJECT. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING BOUNDARY LINES AND CENTERLINE OF EXISTING RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED BOUNDARY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. AS A PART OF THIS WORK, RIGHT OF WAY MONUMENTS WILL BE SET AT THE LOCATIONS SHOWN HEREIN PER THE MEMORANDUM OF UNDERSTANDING BETWEEN THE BOARD OF REGISTRATION FOR ENGINEERS AND SURVEYORS AND THE OHIO DEPARTMENT OF TRANSPORTATION DATED 9-22-2010. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH THE OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 STANDARDS FOR BOUNDARY SURVEYS UNLESS SO NOTED. THE WORDS "I" AND "MY" AS USED HEREIN ARE TO MEAN THAT EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

STATE OF OHIO
NATHANIEL B. RAMSEY
S-8396
REGISTERED
PROFESSIONAL SURVEYOR

NATHANIEL B. RAMSEY, P.S. 8396 — *DATE* 09/13/2022

KEM
K.E. McCARTNEY & ASSOCIATES
ENGINEERS · PLANNERS · SURVEYORS

P.I.D. NO. 115433

R/W DESIGNER MDD
R/W REVIEWER NBR

RIGHT OF WAY LEGEND SHEET

LOR-FRENCH CREEK BIKEWAY

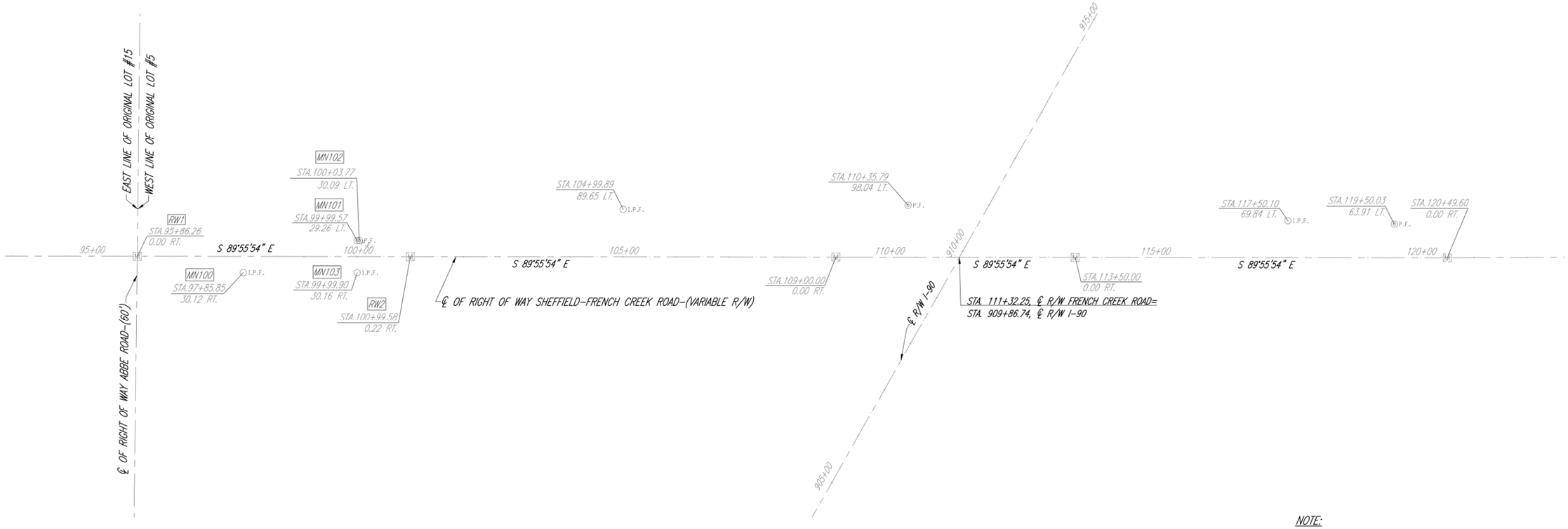
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42

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-297 LOR-French Creek Road - LCMP\RoW\Plan Sheets\HY-297_BL001.dwg Sep 12, 2022 - 3:30pm

RECEIVED _____, 20____
RECORDED _____, 20____
BOOK _____ PAGE _____
COUNTY RECORDER

LORAIN COUNTY
SHEFFIELD VILLAGE
T-7 N, R-17 W
OF THE CONNECTICUT WESTERN RESERVE
PART OF SHEFFIELD TOWNSHIP ORIGINAL LOT 5



I, NATHANIEL B. RAMSEY, P.S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE LORAIN COUNTY METROPOLITAN PARK DISTRICT IN NOVEMBER, 2021. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THEIR LOCATION AS MARKED ON THE GROUND BY THE UTILITY COMPANY OR THEIR REPRESENTATIVES PER OHIO811 CONFIRMATION NUMBERS A215802920, A131903280, B215900113 WERE SURVEYED AND MAPPED AS A PART OF THIS PROJECT. OHIO811 UTILITY DAMAGE PREVENTION LAWS WERE FOLLOWED AND I HAVE NO DIRECT KNOWLEDGE OR CONTROL OF HOW THESE MARKS WERE PLACED, NOR KNOWLEDGE OF THE ACCURACY AS TO THEIR INTENDED DEPICTION OF SUBSURFACE UTILITY FACILITIES. SEE THE AFFIXED SURVEY PARAMETERS NOTE FOR THE HORIZONTAL AND VERTICAL SURVEY PARAMETERS USED FOR THIS PROJECT. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING BOUNDARY LINES AND CENTERLINE OF EXISTING RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED BOUNDARY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. AS A PART OF THIS WORK, RIGHT OF WAY MONUMENTS WILL BE SET AT THE LOCATIONS SHOWN HEREIN PER THE MEMORANDUM OF UNDERSTANDING BETWEEN THE BOARD OF REGISTRATION FOR ENGINEERS AND SURVEYORS AND THE OHIO DEPARTMENT OF TRANSPORTATION DATED 9-22-2010. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH THE OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 STANDARDS FOR BOUNDARY SURVEYS UNLESS SO NOTED. THE WORDS "I" AND "MY" AS USED HEREIN ARE TO MEAN THAT EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

NATHANIEL B. RAMSEY, P.S. 8396

09/13/2022
DATE

STATE OF OHIO
NATHANIEL B. RAMSEY
S-8396
REGISTERED
PROFESSIONAL SURVEYOR

SURVEYING PARAMETERS

THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS WERE USED FOR ALL SURVEYING ON THIS PROJECT:

POSITIONING METHOD: ODOT REAL TIME NETWORK (2011)

VERTICAL POSITIONING-
ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 12A

HORIZONTAL POSITIONING-
REFERENCE FRAME: NAD83 (2011 ADJ, 2010.0)
ELLIPSOID: GRS 80
COORDINATE SYSTEM: CUSTOM ODOT
PROJECTION SCALE FACTOR: 1.00006997583236

UNITS ARE IN U.S. SURVEY FEET. CONVERSION FACTOR: 1 METER=3.280833333 U.S. SURVEY FEET.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

MONUMENT LEGEND

▣	EXISTING R/W MONUMENT BOX
○I.P.F.	IRON PIN FOUND
◎P.F.	IRON PIPE FOUND

NOTE:
THE CENTERLINE ALIGNMENT WAS BASED ON FOUND MONUMENTS REFERENCED IN PLANS FOR PROJECT LOR-90-17.53 AND LOR-90-17.21, IN CONJUNCTION WITH SUBDIVISION PLATS AND SURVEYS ON FILE WITH LORAIN COUNTY.

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY OF SHEFFIELD-FRENCH CREEK ROAD-(VARIABLE WIDTH)

BASIS FOR BEARINGS:
ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS ARE BASED ON GRID NORTH AS DETERMINED FROM GPS OBSERVATIONS MADE BY K.E. McCARTNEY & ASSOCIATES, INC. AND ARE RELATIVE TO THE OHIO STATE PLANE COORDINATE SYSTEM, OHIO NORTH ZONE, NAD83(2011) AND ARE FOR THE PURPOSES OF DETERMINING DIRECTIONAL VARIATIONS.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 09/12/2022

HORIZONTAL SCALE IN FEET: 0 50 100 200

PID NO. 115433

K.E. McCARTNEY & ASSOCIATES
ENGINEERS · PLANNERS · SURVEYORS

R/W DESIGNER MDD
R/W REVIEWER NBR

CENTERLINE PLAT

LOR-FRENCH CREEK BIKEWAY

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PROJECT: LOR-FRENCH CREEK BIKEWAY

PID: 115433

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)

BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.28106291

	C/L OF R/W FRENCH CREEK RD							
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION
CP1	98+30.63	16.49	RT	649818.037	2084989.037	629.48	IPINS	IPINS-KEM CONTROL POINT
CP2	103+58.45	17.50	RT	649816.440	2085516.856	633.60	IPINS	IPINS-KEM CONTROL POINT
CP3	109+13.03	15.38	LT	649848.666	2086071.478	653.34	IPINS	IPINS-KEM CONTROL POINT
CP4	113+51.49	15.54	RT	649817.225	2086509.897	653.45	IPINS	IPINS-KEM CONTROL POINT
CP5	118+49.04	15.85	RT	649816.320	2087007.452	636.67	IPINS	IPINS-KEM CONTROL POINT

CENTERLINE OF RIGHT OF WAY FRENCH CREEK RD

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION
CL1	95+86.26	0.00	LT.	649834.864	2084744.686	0.00	DEFAULT	CL INTERSECTION
CL2	120+49.61	0.00	LT.	649831.928	2087208.036	0.00	DEFAULT	PI

PROJECT ADJUSTMENT FACTOR BASED ON:

UNITLESS FACTOR =	1.00006998	State Plane Grid to Project Ground (same units)
PROJECT ADJ. FACTOR =	3.28106291	State Plane Grid (meters) to Project Ground (US Survey Feet)
ENG./METRIC CONV.=	3.28083333	US SURVEY FOOT TO METERS CONVERSION FACTOR

PROJECT Coordinates are Scaled From GRID Coordinates About The OHIO NORTH ZONE Grid Point N=0,E=0.

PROJECT CONTROL POINTS

Control point horizontal positions were established by averaging multiple VRS derived GNSS observations. Elevations were derived through conventional leveling holding the VRS derived position for CP01. All positions are in conformance to the ODOT Surveying and Mapping Specifications.

CENTERLINE ALIGNMENT

STATE PLANE GRID COORDINATES

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

CP01 defined by GPS from CORS using GEOID 12A all other elevations established from leveling from CP01

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CP1	198051.0886	635461.4624	191.865	649772.613	2084843.148
CP2	198050.5984	635622.3307	193.120	649770.972	2085370.930
CP3	198060.4100	635791.3683	199.138	649803.195	2085925.514
CP4	198050.8276	635924.9892	199.170	649771.757	2086363.902
CP5	198050.5518	636076.6336	194.056	649770.852	2086861.422

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CL1	198056.2036	635386.9893	0.000	649789.395	2084598.814
CL2	198055.3088	636137.7673	0.000	649786.459	2087061.992

MONUMENTS TO BE SET DURING CONSTRUCTION

ITEM 623.05 MONUMENT ASSEMBLY	ITEM 623.05 REFERENCE MONUMENT

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)

BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.28106291

	C/L OF R/W FRENCH CREEK RD			0.00000				
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION
DV500	96+16.55	30.00	LT	649864.828	2084775.018	0.00	DEFAULT	
DV501	96+16.65	40.00	LT	649874.828	2084775.128	0.00	DEFAULT	PROPOSED RIGHT OF WAY
DV502	96+35.00	40.00	LT	649874.806	2084793.478	0.00	DEFAULT	PROPOSED RIGHT OF WAY
DV503	96+35.00	45.00	LT	649879.806	2084793.484	0.00	DEFAULT	PROPOSED RIGHT OF WAY
DV504	100+03.94	45.00	LT	649879.366	2085162.419	0.00	DEFAULT	PROPOSED RIGHT OF WAY
DV505	100+03.79	30.32	LT	649864.682	2085162.257	0.00	DEFAULT	
DV506	100+00.00	30.00	LT	649864.371	2085158.466	0.00	DEFAULT	

PROPOSED RIGHT OF WAY LOCATIONS

STATE PLANE GRID COORDINATES

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
DV500	198065.3359	635396.2339	0.000	649819.356	2084629.144
DV501	198068.3837	635396.2675	0.000	649829.356	2084629.254
DV502	198068.3770	635401.8602	0.000	649829.334	2084647.603
DV503	198069.9009	635401.8620	0.000	649834.333	2084647.609
DV504	198069.7669	635514.3058	0.000	649833.894	2085016.518
DV505	198065.2915	635514.2563	0.000	649819.211	2085016.356
DV506	198065.1967	635513.1011	0.000	649818.899	2085012.566
SUBTOTAL MONUMENTS - QUANTITY CARRIED TO THE GENERAL SUMMARY					

MONUMENTS TO BE RESET AFTER CONSTRUCTION

ITEM 623.05 RIGHT OF WAY PIN (TYPE "B")	ITEM 623.05 BOUNDARY PIN (TYPE "B")
0	0

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)

BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.28106291

	C/L OF R/W FRENCH CREEK RD			0.00000				
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION
RW1	95+86.26	0.00	RT	649834.860	2084744.690	629.97	MONBOX	1" IRON PIN IN MONBOX
RW2	100+98.58	0.22	RT	649834.037	2085258.014	629.22	MONBOX	1" IRON PIN IN MONBOX
RW3	120+49.63	0.00	RT	649831.928	2087208.056	633.46	MONBOX	1" IRON PIN IN MONBOX

EXISTING RIGHT OF WAY POINTS

STATE PLANE GRID COORDINATES

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
RW1	198056.2023	635386.9906	192.015	649789.390	2084598.818
RW2	198055.9513	635543.4410	191.788	649788.567	2085112.106
RW3	198055.3088	636137.7735	193.079	649786.459	2087062.012

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)

BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.28106291

	C/L OF R/W FRENCH CREEK RD			0.00000				
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION
MN100	97+85.85	30.12	RT	649804.507	2084944.241	628.36	IPIN	IPIN-5/8"-REBAR IN CONC.
MN101	99+99.57	29.26	LT	649863.630	2085158.035	628.38	IPIPE	IPIPE-1.0"-CRIMP TOP
MN102	100+03.77	30.09	LT	649864.462	2085162.234	628.53	IPIPE	IPIPE-7/8"
MN103	99+98.90	30.16	RT	649804.209	2085158.291	628.13	IPIN	IPIN-5/8"-REBAR IN CONC.

EXISTING BOUNDARY MONUMENTS

STATE PLANE GRID COORDINATES

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN100	198046.9515	635447.8085	191.523	649759.040	2084798.355
MN101	198064.9707	635512.9695	191.532	649818.158	2085012.134
MN102	198065.2243	635514.2493	191.575	649818.990	2085016.333
MN103	198046.8607	635513.0475	191.454	649758.742	2085012.390
SUBTOTAL MONUMENTS - QUANTITY CARRIED TO THE GENERAL SUMMARY					

MONUMENTS TO BE RESET AFTER CONSTRUCTION

ITEM 623.05 RIGHT OF WAY PIN (TYPE "B")	ITEM 623.05 BOUNDARY
	1
	1
0	2

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-297 LOR-French Creek Road - LCMP\Row\Plan Sheets\HY-297_RCL001.dwg Sep 12, 2022 - 3:30pm

PID NO. 115433

K.E. McCARTNEY & ASSOCIATES ENGINEERS · PLANNERS · SURVEYORS

R/W DESIGNER MDD

R/W REVIEWER NBR

CENTERLINE PLAT

LOR-FRENCH CREEK BIKEWAY

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3 / 5

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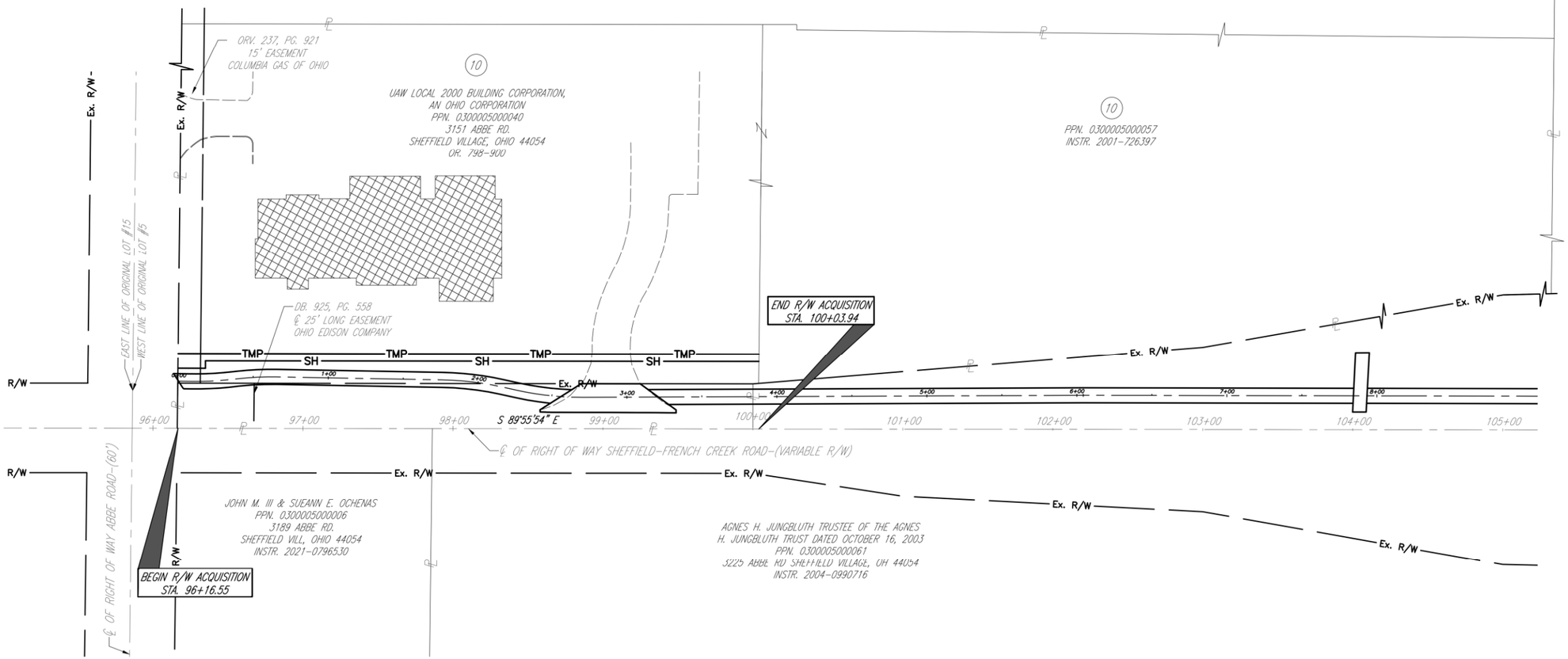
NOTE:
ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION. FROM START OF CONSTRUCTION.

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

SCHEDULE OF EASEMENTS:
EASEMENT TO OHIO EDISON COMPANY: DB. 925, PG. 558
EASEMENT TO COLUMBIA GAS OF OHIO, INC.: OR. 237, PG. 921

(c.) = CALCULATED AREA
* = DENOTES RIGHT OF WAY ENCROACHMENT
SH = STANDARD HIGHWAY EASEMENT
T = TEMPORARY EASEMENT

LORAIN COUNTY
SHEFFIELD VILLAGE
T-7 N, R-17 W
OF THE CONNECTICUT WESTERN RESERVE
PART OF SHEFFIELD TOWNSHIP ORIGINAL LOT 5



GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE VILLAGE OF SHEFFIELD UNLESS OTHERWISE SHOWN.

1 OWNERS 0 TOTAL TAKES ALL AREAS IN ACRES
2 PARCEL 0 OWNERSHIPS W/STRUCTURES INVOLVED NET TAKE = GROSS TAKE - PRO IN TAKE NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

REV. BY	DATE	DESCRIPTION
DATE COMPLETED	09/12/2022	

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	REMARKS
1-9	NOT USED												
10-SH	UAW LOCAL 2000 BUILDING CORPORATION, AN OHIO CORPORATION	5	OR. 798, PG. 900	0300005000040	4.260	0.264	0.131	0.000	0.131				EASEMENT OVERLAP: 0.0034 OF AN ACRE
			INSTR. 2001-726397	0300005000057	5.060	0.000	0.000	0.000	0.000				
				TOTAL	9.320	0.264	0.131	0.000	0.131		8.925		
10-T			OR. 798, PG. 900	0300005000040	4.260		0.0466	0.000	0.0466				FOR GRADING
			INSTR. 2001-726397	0300005000057	5.060		0.000	0.000	0.000				
				TOTAL	9.320		0.0466	0.000	0.0466				

PROPERTY MAP
SUMMARY OF ADDITIONAL RIGHT OF WAY

LOR-FRENCH CREEK BIKEWAY

HORIZONTAL SCALE IN FEET 0 20 40 80

PID. NO. 115433

STATE JOB NO. 439 704

DESIGNED MDD REVIEWED NBR

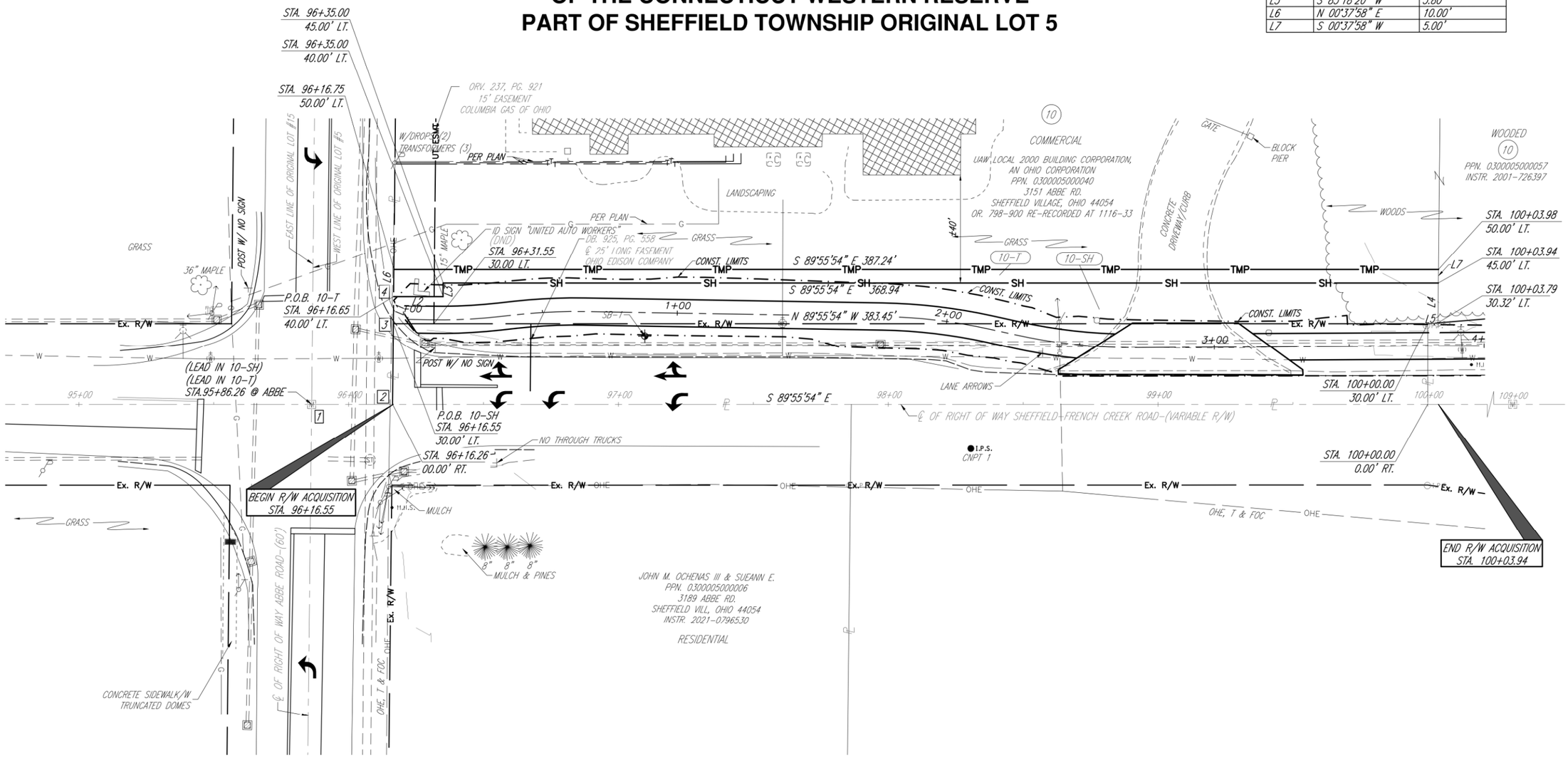
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LORAIN COUNTY
SHEFFIELD VILLAGE
T-7 N, R-17 W
OF THE CONNECTICUT WESTERN RESERVE
PART OF SHEFFIELD TOWNSHIP ORIGINAL LOT 5

LINE	BEARING	DISTANCE
L1	N 00°37'58" E	10.00'
L2	S 89°55'54" E	18.35'
L3	N 00°04'06" E	5.00'
L4	S 00°37'58" W	14.68'
L5	S 85°18'20" W	3.80'
L6	N 00°37'58" E	10.00'
L7	S 00°37'58" W	5.00'



LEAD IN COURSE: 1 TO 2 = S 89°55'54" E 30.00'
LEAD IN COURSE: 2 TO 3 = N 00°37'58" E 30.00'
LEAD IN COURSE: 2 TO 4 = N 00°37'58" E 40.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED	9/12/2022	

HORIZONTAL SCALE IN FEET
0 5 20 40

PID. NO. 115433

DESIGNED MDD
REVIEWED NBR

KEM
K.E. McCARTNEY & ASSOCIATES
ENGINEERS · PLANNERS · SURVEYORS

RIGHT OF WAY DETAIL SHEET

LOR-FRENCH CREEK BIKEWAY

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