

CITY OF RICHMOND HEIGHTS

2024 PAVEMENT REPAIR PROGRAM

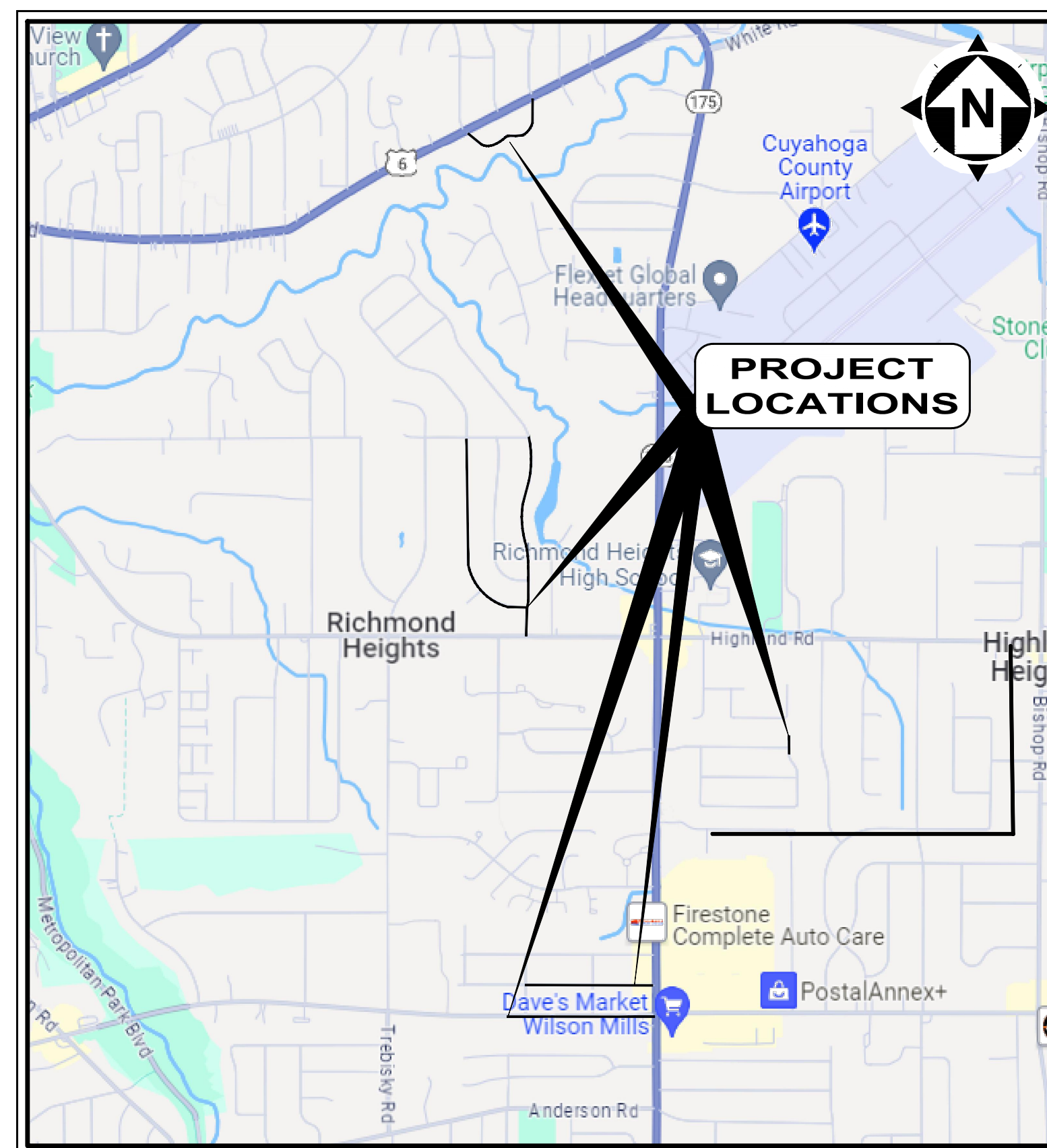
CONTRACT A - ASPHALT RESURFACING

CONTRACT B - CONCRETE PAVEMENT REPAIR

CUYAHOGA COUNTY, OHIO
JULY 2024



INDEX OF SHEETS	
SHEET TITLE	SHEET NUMBER
COVER SHEET	1
GENERAL NOTES	2
MAINTENANCE OF TRAFFIC	3
TYPICAL SECTIONS	4-5
CONTRACT A - PLAN SHEETS	6-19
CONTRACT B - PLAN SHEETS	20-23
DETAILS	24-26



LOCATION MAP
NOT TO SCALE

CITY OFFICIALS:

KIM A. THOMASMAYOR

COUNCIL-AT-LARGE

WARD COUNCIL

BOBBY JORDAN, PRESIDENT

TRACY JUSTICE, WARD I

JUANITA LEWIS

ASU MOOK ROBINSON, WARD II

DANIEL J. URSU

CASSANDRA NELSON, WARD III

TRACEY BLAIR, CLERK OF COUNCIL

BRIAN SILVER, WARD IV

BAYYINAH BROOKS, SPECIAL ASSISTANT TO THE MAYOR

CITY ADMINISTRATORS:

RYAN TIEDMAN SERVICE DIRECTOR

NICK LOPARDO ASSISTANT SERVICE DIRECTOR

R. TODD HUNT LAW DIRECTOR

TOM DILEILLIO FINANCE DIRECTOR

BILL GALLAGHER BUILDING COMMISSIONER

CAMERON CAMPBELL RECREATION DIRECTOR

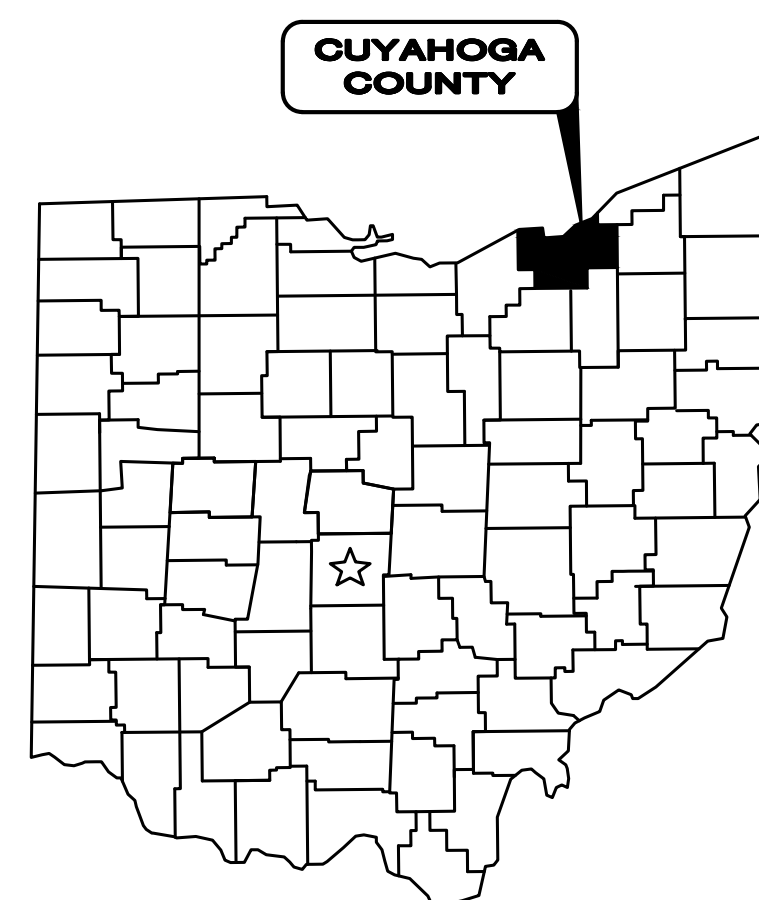
CALVIN D. WILLIAMS POLICE CHIEF

MARC NEUMANN FIRE CHIEF

JUSTIN HASELTON CITY ENGINEER

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

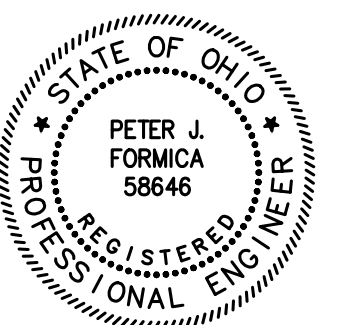
CALL
1-800-362-2764
(TOLL FREE)



1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.

2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.

3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



GENERAL NOTES

- 1. MATERIALS OF WORK FOR "AS DIRECTED" ITEMS SHALL NOT BE ORDERED FOR THE DELIVERY TO THE PROJECT OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
2. MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS SHALL BE RAISED OR LOWERED FLUSH WITH THE FINISHED SURROUNDING SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED AND ADJUSTED TO GRADE PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID.
3. BEFORE THE CITY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE CITY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
4. THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO TAPE SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO HAVE BEEN CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEO TAPE SURVEY, SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL UNLESS THERE IS A PRECONSTRUCTION VIDEO DOCUMENTATION BID ITEM INCLUDED IN THE PROJECT.

TRENCH EXCAVATION AND BACKFILL

- 1. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
2. BACKFILL FOR ALL UNDERGROUND UTILITIES INSTALLED UNDER PAVEMENT, OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT, SHALL BE "COMPACTED GRANULAR BACKFILL" AS DESCRIBED IN SPECIFICATION SECTION 312323.14 AND IN ACCORDANCE WITH THE PLANS. BACKFILL IN OTHER AREAS SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 312323.13 - "COMPACTED BACKFILL" OR SECTION 312323.14 - "COMPACTED GRANULAR BACKFILL". THE OWNER AND THE ENGINEER DO NOT GUARANTEE NOR SUGGEST THE INSITU MATERIAL TO BE EXCAVATED WILL BE SUITABLE OR IN ITS PRESENT STATE WILL CONSIST OF THE PROPER MOISTURE CONTENT TO ACHIEVE THE COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE BACKFILL MATERIAL HE WILL USE. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE FOR THE CONTRACTOR TO CONDUCT SUCH INVESTIGATION AND TESTS DEEMED NECESSARY TO MAKE HIS DETERMINATION. NO EXTRA PAYMENT WILL BE MADE TO DISPOSE OF UNSUITABLE MATERIAL OR FURNISH AND PLACE SUITABLE MATERIAL MEETING THE REQUIREMENTS OF SECTION 312323.13 "COMPACTED BACKFILL" OR SECTION 312323.14 "COMPACTED GRANULAR BACKFILL".
3. SLAG PRODUCTS WILL NOT BE PERMITTED FOR BEDDING OR BACKFILL MATERIAL.
4. ALL UTILITY LINES CROSSING TRENCHES, I.E. STORM LATERALS, SANITARY SEWERS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK, EVEN IF NOT SHOWN ON THE PLANS.
5. ALL EXISTING SEWER CASTINGS REMOVED ON THIS PROJECT SHALL REMAIN THE PROPERTY OF THE CITY OF RICHMOND HEIGHTS AND SHALL BE DELIVERED BY THE CONTRACTOR TO A SITE DESIGNATED BY THE CITY.
6. ALL EXISTING TEST TEE MARKINGS ENCOUNTERED ON THE SIDEWALK AND/OR CURB DURING CONSTRUCTION SHALL BE REFERENCED AND RESTORED, MARKED WITH A SAW CUT SYMBOL ON THE SIDEWALK. (+) FOR STORM TEE AND (Δ) FOR SANITARY TEE.
7. BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 9" IN DEPTH. BACKFILL MATERIAL SHALL BE PLACED WITH 2% OF THE OPTIMUM MOISTURE. THE ENGINEER MAY ORDER THE REMOVAL, REFILLING, RECOMPACTION AND RETESTING OF ALL BACKFILL NOT MEETING THE REQUIREMENTS OF THE CONTRACT.
8. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED USING MACHINE MOUNTED COMPACTION EQUIPMENT IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT ODOT 203.
9. NO BACKFILLING OF ANY TRENCHES OR EXCAVATIONS WILL BE PERMITTED WITHOUT TAMPING EQUIPMENT BEING USED. FLOODING, JETTING OR PUDDLING OF BACKFILL WILL NOT BE PERMITTED.

PROJECT PHASING

IT IS THE DESIRE OF THE CITY OF RICHMOND HEIGHTS TO HAVE THE CONTRACT WORK PROCEED IN AN ORDERLY AND NEAT MANNER IN ORDER TO KEEP THE DISRUPTION TO THE BUSINESSES AND RESIDENTS TO A MINIMUM. THUSLY THE CONTRACTOR IS TO PREPARE AND IMPLEMENT A WORK PHASING PLAN, APPROVED BY THE DIRECTOR OF PUBLIC SERVICE AND THE ENGINEER, INCLUSIVE OF THE FOLLOWING REQUIREMENTS:

- 1. ALL WORK SHALL BE 1/2 WIDTH, EXCEPT FOR ASPHALT MILLING AND RESURFACING OPERATIONS.
2. NO WORK SHALL BE DONE ON THE OPPOSITE SIDE OF THE STREET UNTIL ALL NEW PAVEMENT (CONCRETE OR ASPHALT BASE AND INTERMEDIATE COURSES), DRIVE APRONS, SIDEWALKS AND ROUGH GRADE LANDSCAPING ARE IN PLACE ON THE SIDE BEING CONSTRUCTED.
3. THE CITY MAY, ACCEPT A PHASING PLAN CONSISTING OF PERFORMING 1/2 WIDTH IMPROVEMENTS ALONG THE SECTIONS/PHASES OF THE PROJECT LENGTH. THE CONTRACTORS PLAN SHALL SUBSTANTIALLY COMPLETE EACH PHASE ON BOTH SIDES OF THE RIGHT-OF-WAY BEFORE MOVING ON THE THE NEXT PHASE.
4. DRIVE APRON ACCESS IS TO BE MAINTAINED AT ALL TIMES EXCEPTING DURING CONCRETE PLACEMENT AND CURING.

ROADWAY EXCAVATION AND PAVEMENT

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES PROOF ROLL TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
2. PART WIDTH CONSTRUCTION AS DESCRIBED IN PROJECT PHASING GENERAL NOTE SHALL BE USED FOR PAVING OPERATIONS. PAVING OPERATIONS SHALL NOT BEGIN ON THE OPPOSITE LANE(S) UNTIL ROADWAY AND DRIVE APRONS ARE INSTALLED AND OPEN TO TRAFFIC ON THE STARTING SIDE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE BARRICADE DEVICES TO PREVENT VEHICULAR TRAFFIC ON NEW CONCRETE PAVEMENT AND APRONS UNTIL THE END OF THE CURE PERIOD OR THE SPECIMEN TEST BEAMS HAVE ATTAINED A MODULUS OF RUPTURE OF 400 PSI FOR M.S. CONCRETE.
4. THE EXCAVATION, EMBANKMENT AND COMPACTION OF THE NEW ROADWAY SUBGRADES IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 203. A MINIMUM OF TWO (2) PROOF ROLLINGS WILL BE REQUIRED AS DIRECTED BY THE ENGINEER BEFORE PAVING. THE FIRST PROOF ROLLING SHALL BE PERFORMED AFTER THE INSTALLATION OF ALL UNDERGROUND IMPROVEMENTS AND AFTER FINE GRADING JUST PRIOR TO PAVING. THE PROOF ROLLINGS SHALL BE COMPLETED AS FOLLOWS: EXCAVATION OR EMBANKMENT TO FINISHED SUBGRADE. EMBANKMENTS ARE COMPACTED AND TESTED FOR COMPACTION IN 6" LIFTS PER ODOT 203. THE SUBGRADE IS COMPACTED AND TESTED. THE SUBGRADE FOR THE NEW ROAD IS THEN PROOF ROLLED. AREAS EXHIBITING UNACCEPTABLE MOVEMENT UNDER PROOF ROLLING ARE UNDERCUT TO A DEPTH DIRECTED BY THE ENGINEER AND BACKFILLED WITH MATERIALS SPECIFIED IN THE PLANS. THE SUBGRADE IS RE-PROOF ROLLED TO VERIFY THE UTILITY OF THE UNDERCUT. UPON PASSING THE PROOF ROLL THE AREA IS APPROVED FOR THE INSTALLATION OF THE BASE MATERIAL. THE AGGREGATE BASE MATERIAL IS PLACED PER ODOT SPECIFICATIONS, COMPACTED, TESTED AND PROOF ROLLED. UPON PASSING THE PROOF ROLL THE SPECIFIED TOP COURSES OF RIGID PAVEMENT MAY BE INSTALLED MOISTURE CONTENT OF THE SUBGRADE AT THE TIME OF PROOF ROLLING SHALL CONFORM TO SECTION 203.11 OF THE ODOT SPECIFICATIONS. THE MINIMUM EQUIPMENT SHALL CONSIST OF A SINGLE UNIT, TANDEM AXLE DUMP TRUCK CAPABLE OF BEING LOADED TO 30,000 POUND AXLE LOAD, 60,000 POUND GVW. TIRE PRESSURE SHALL BE MAINTAINED AT 90 PSI OR AS SPECIFIED UNDER SECTION 203.14 OF ODOT SPECIFICATIONS. ANY AREA PERMITTING TIRES TO LEAVE A GROOVE OF ONE (1) INCH OR MORE SHALL BE UNACCEPTABLE FOR PAVING. ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ZERO (0) TO ONE-HALF (1/2) INCH DEEP SHALL BE ACCEPTABLE. ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ONE-HALF (1/2) INCH TO ONE (1) INCH DEEP SHALL BE AT THE ENGINEER'S DISCRETION.
5. JOINT AND CRACK SEALER FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF ODOT ITEM 705.04 AND ASTM D 3405. A DOUBLE BOILER SHOULD BE USED FOR HEATING THE MATERIAL.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SECURITY MEASURES AND/OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM AT NO ADDITIONAL COST TO THE CITY. ANY VANDALIZED CONCRETE SHALL BE REPLACED IN FULL AT THE CONTRACTOR'S EXPENSE.

EXISTING UTILITIES

- 1. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF RICHMOND HEIGHTS AND THE CLEVELAND WATER DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
2. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. THE FOLLOWING REFERENCE NUMBERS HAVE BEEN ASSIGNED TO THIS PROJECT BY THE OHIO UTILITIES PROTECTION SERVICE. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF RICHMOND HEIGHTS, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE CITY OF RICHMOND HEIGHTS, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS LISTED BELOW AND THE UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND OUTLINED IN PROJECT SPECIFICATIONS. THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

AT&T
JAMES JANIS
13630 LORAIN AVE
CLEVELAND OHIO 44111
216-534-7285
Pj8191@att.com
DOMINION
320 SPRINGSIDE DR. SUITE 320
AKRON OHIO 44333
330-664-2409
relocation@dominionenergy.com

CHARTER
ROB ZELKO
7820 DIVISION DR.
MENTOR OHIO 44060
330-633-9203
Rob.Zelko@charter.com
EVERSTREAM
GIO REILLO
1228 EUCLID AVE SUITE 250
CLEVELAND OHIO 44115
216-905-0780
greillo@everstream.net

CLEVELAND WATER
FRED ROBERTS
1201 LAKESIDE AVE
CLEVELAND OHIO 44114
216-664-2444 ext 75590
fred_roberts@clevelandwater.com
THE ILLUMINATING COMPANY
P.O. BOX 5000
CLEVELAND, OHIO 44101
PHONE: (216) 622-9800
CITY OF RICHMOND HEIGHTS
457 RICHMOND ROAD
RICHMOND HEIGHTS, OHIO 44143
PHONE: (216) 731-7014

NORTHEAST OHIO REGIONAL
SEWER
ROB STOERKEL
3900 EUCLID AVE
CLEVELAND OHIO 44115
216-881-8247

OHIO UTILITY PROTECTION SERVICE
106 WEST RYEN, ROOM 427
YOUNGSTOWN, OHIO 44051
PHONE: (800) 362-2746

- 4. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST AND COORDINATION FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF RICHMOND HEIGHTS. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.

SERVICE CONNECTIONS

- 1. ALL ACTIVE DRAINAGE PIPES ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES.
2. ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC, TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED. THE COST OF UTILITY SERVICE CONNECTION REPAIR/REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS IN THE PROPOSAL.
3. ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND.
4. THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL EXPECT ONE UNDERGROUND SEWER, GAS AND WATER CONNECTION FOR EACH LOT (INCLUDING VACANT LOTS) ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.
6. THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF ASSOCIATED SEWER REPAIR.
GRASS RESTORATION
1. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TREELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. COST OF INVENTORY AND RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR LAWN RESTORATION.
2. RESTORATION OF TREELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR. THE LANDSCAPE CONTRACTOR MUST BE EXPERIENCED IN COMMERCIAL INSTALLATIONS AND PROVIDE REFERENCES AND OTHER DETAILED INFORMATION TO ENABLE THE OWNER TO JUDGE HIS EXPERIENCE AND CAPABILITY TO PERFORM THE WORK. GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. THE SEED SHALL BE PLACED ON A FOUR (4) INCH BED OF COMPACTED TOPSOIL THAT HAS BEEN RAKED AND BROUGHT TO AN EVEN SURFACE. TOPSOIL SHALL BE SHREDDED AND BE FREE OF ROCKS, ROOTS AND WEEDS. THE CONTRACTOR SHALL PROVIDE TOPSOIL SAMPLES AND SOURCES OF SUPPLY TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY OF THE MATERIAL TO THE JOB SITE.

SEWER INSTALLATION

- 1. ALL SANITARY SEWER 21" AND UNDER AND ALL STORM SEWER 18" AND UNDER SHALL BE PVC, SDR 26 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL STORM SEWER 21" AND GREATER SHALL BE ASTM F2281 CORRUGATED SMOOTH INTERIOR POLYPROPYLENE (PP) PIPE WITH ASTM 3212 BELL AND SPIGOT JOINTS (WT) UNLESS OTHERWISE SHOWN ON THE PLAN.
2. ALL CONNECTIONS MADE TO EXISTING STORM SEWERS SHALL BE MADE WITH MISSION COUPLINGS OR APPROVED EQUAL.
3. ALL SEWER REPAIRS AND/OR SECTIONS OF SEWER REPLACEMENT SHALL BE VISUALLY INSPECTED BY MEANS OF TELEVISION AND RECORDING ON DVD FORMAT VIDEOTAPE ALONG WITH AUDIO COMMENTARY. THE TELEVISION AND VIDEOTAPE RECORDING SHALL BE PERFORMED ONCE AFTER SEWER CONSTRUCTION IS COMPLETE. TELEVISION SHALL BE AS PER SPECIFICATION 330130.11. ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY THE VISUAL-AID INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY AND TO THE FULL SATISFACTION OF THE CITY AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL COST OF CLEANING ALL SEWERS PRIOR TO VISUAL INSPECTION. COST OF TELEVISION AND VIDEOTAPE OPERATION SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

PROPERTY PINS AND MONUMENTS

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LOCATE, RECORD, AND MARK ALL EXISTING MONUMENTS AND PROPERTY CORNERS WITHIN THE CONSTRUCTION LIMITS. THIS COST SHALL BE DISTRIBUTED AMONG THE APPROPRIATE PROJECT PAY ITEMS. A LISTING OF THE PINS AND MONUMENTS SHALL BE SUPPLIED TO THE CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PINS AND MONUMENTS DURING CONSTRUCTION. IF PINS AND MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL HAVE THEM REPLACED BY THE REGISTERED SURVEYOR AT NO ADDITIONAL COST TO THE CITY.

EROSION AND DUST CONTROL

- 1. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY HYDRO SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.

- 4. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN OR OTHER ENVIRONMENTALLY SENSITIVE AREA.
5. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN NEEDED OR ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE PER ODOT 616 FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
7. OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

EXCESS EXCAVATION

- 1. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE CITY IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS.

MAINTAINING TRAFFIC

- 1. SEE MAINTENANCE OF TRAFFIC PLAN.
TRENCH EXCAVATION
1. TRENCH EXCAVATION SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF REPLACEMENT SECTION WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

- 1. THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY; OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W. THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. ALL EQUIPMENT AND STORED MATERIALS SHALL NOT CAUSE SIGNIFICANT SIGHT DISTANCE HAZARDS TO THE TRAVELING PUBLIC. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

SUSPENSION OF WORK

- 1. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR MAINTENANCE OF TRAFFIC AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE MANUAL, THE ENGINEER MAY SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS. NO COMPENSATION WILL BE PAID FOR SUSPENSION OF WORK.

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACTS A & B
CUYAHOGA COUNTY, OHIO

Table with 2 columns: Field Name, Value. Fields include ISSUED FOR, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY.

GENERAL NOTES

Table with 2 columns: Field Name, Value. Fields include PROJECT NO., DISCIPLINE, SHEET NAME, SHEET OF.

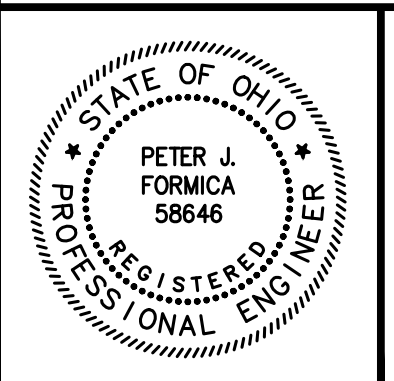
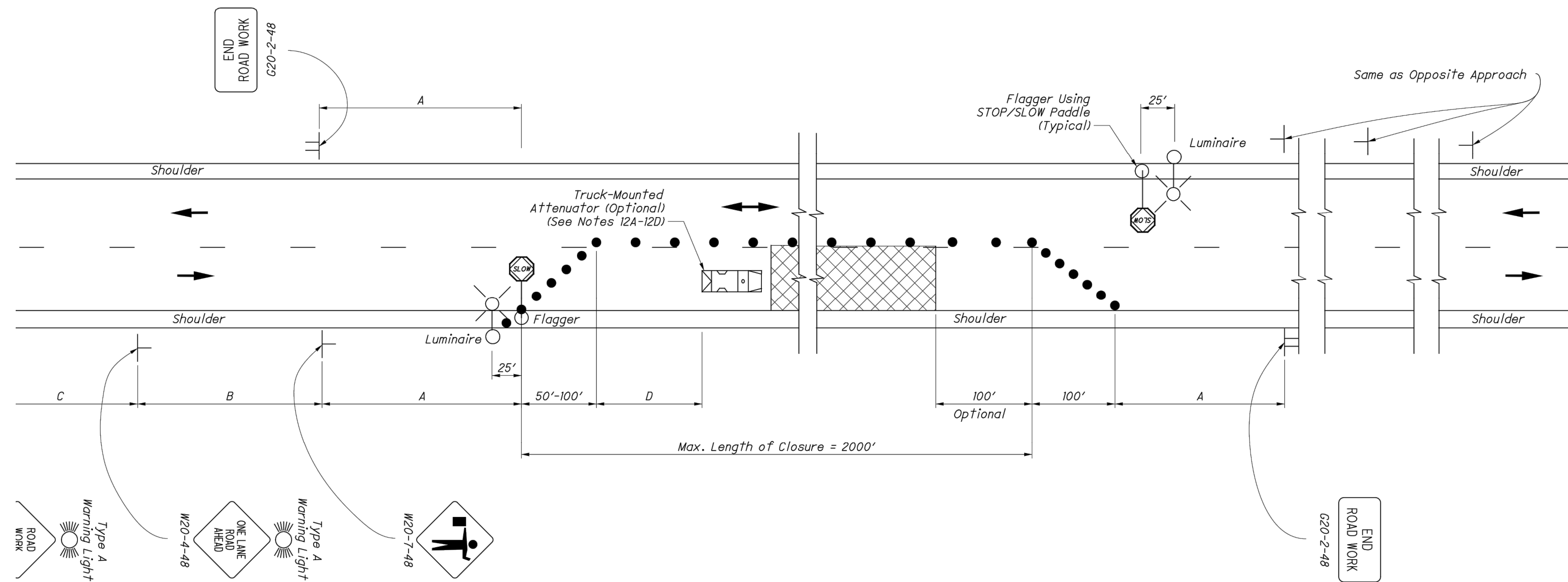


Table with 3 columns: NO, REVISION, DATE.



NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

- 3A. The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.
- 3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds of 50 mph or greater.
- 3C. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SIGHT DISTANCE

4. The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

BASIC SIGNING

- 5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.
- 5B. END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. If it is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.
- 5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20-1) or END ROAD WORK (G20-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS

- 6A. The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.
- 6B. 36" warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights shown on the ROAD WORK AHEAD (W20-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.

DRUMS / CONES

- 8A. Drum spacing shall be as follows:
 - a) Spacing along the closure shall be 40' center-to-center.
 - b) Spacing along the approach taper shall be 10' center-to-center.
- 8B. Cones may be substituted for drums as follows:
 - a) Cones used for daytime traffic control shall have a minimum height of 28".
 - b) Cones used for nighttime traffic control shall have a minimum height of 42".
 - c) Use of cones at night shall be prohibited along tapers.
- 8C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.
- 8D. A minimum of two drums shall be used to close the paved shoulder.

(RESERVED FOR FUTURE USE)

9A. (intentionally blank)

AREA ILLUMINATION

- 10A. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.
- 10B. To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

11. Within the length of closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The Contractor shall:
 - a) Place across the closed lane, either three drums (cones) or barricades, and/or
 - b) Provide an additional flagger at every public street intersection and major driveway.

Drums (cones) placed across the closed lane shall be located 25' beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs) MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

- 12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenever workers are not in the work area.
- 12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe lights.
- 12C. The vehicle shall be equipped with a truck-mounted attenuator when called for in the plans.
- 12D. Other protective devices may be used in lieu of the shadow vehicle shown when approved by the Engineer.

CHIP SEAL OPERATIONS

13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.

- a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.
- b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
- c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

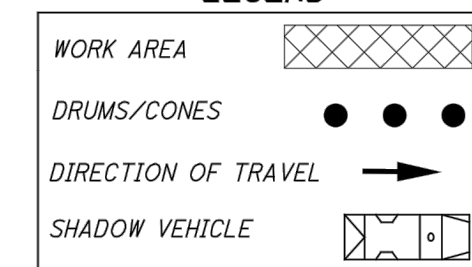
TABLE I (SIGN SPACING)

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (< 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

TABLE II

SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

LEGEND



ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND, AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC. WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE

FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ADDITIONAL TRAFFIC MAINTENANCE NOTES

1. ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES. LOCAL ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES.
2. PART WIDTH CONSTRUCTION, ONE LANE WIDTH, SHALL BE USED DURING THE PERFORMANCE OF PAVING OPERATIONS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, DETOUR AND CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS.
4. MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DETOUR ROUTES & SIGNAGE SHALL MEET THE APPROVAL OF THE CITY ENGINEER.
5. IN ORDER TO MAINTAIN LOCAL AND DRIVEWAY ACCESS, THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE, TYPE A OR B IN ACCORDANCE WITH ODOT ITEM 410 LIMESTONE OR GRAVEL ONLY INCLUDING NECESSARY WATER AND CALCIUM CHLORIDE IN ACCORDANCE WITH ODOT ITEM 616 AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC INCLUDING PROVIDING TRAFFIC COMPACTED SURFACES, OTHER TEMPORARY ROADWAYS, TRAFFIC CONTROL, AND ALL OTHER SAFEGUARDS. COST FOR MAINTAINING TRAFFIC INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.
6. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.
7. NOTICE OF CLOSURE SIGNS, FOR SEVERAL SIDE ROADS, AS DETAILED IN THESE PLANS, SHALL BE ERRECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERRECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERRECTED AT THE POINT OF CLOSURE.
8. THE CONTRACTOR SHALL PROVIDE, ERRECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE PLANS.
9. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.
10. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATIVE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ENGINEER.
11. PAYMENT FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIED SEPARATELY, SHALL BE AT THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DETAILED IN THE PLANS.



NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACTS A & B
CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

MAINTENANCE OF TRAFFIC

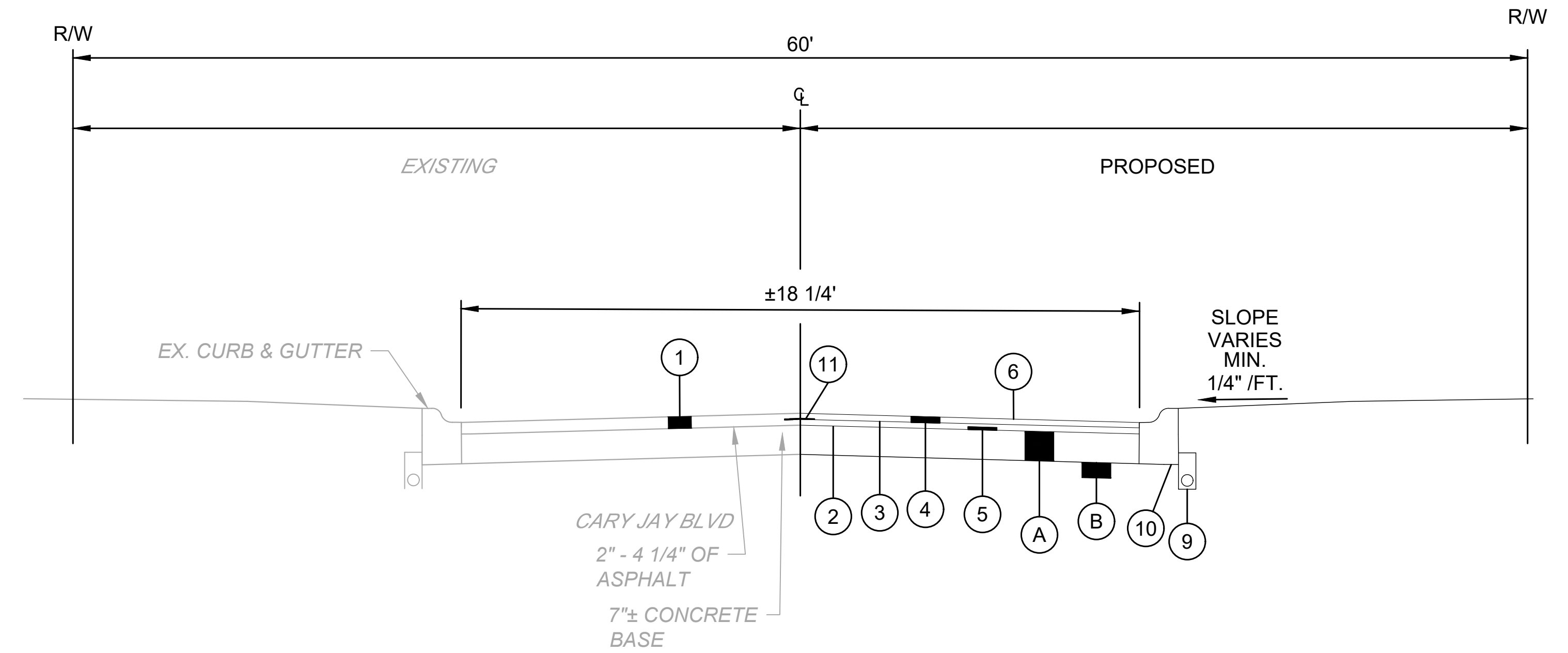
PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	MOT
SHEET	3
OF	26

- ① FULL DEPTH ASPHALT PLANING, AS PER PLAN
- ② ITEM 407 TACK COAT, TRACKLESS TACK (APPLICATION RATE PER ODOT TABLE 407.06-1)
- ③ PAVEMENT REINFORCING FABRIC, AS SPECIFIED, INCL. TACK COAT
- ④ 1 1/2" ITEM 448 A.C. SURFACE COURSE, TYPE 1, PG 64-22 (ALL VIRGIN MATERIAL)
- ⑤ 1" ITEM 448 A.C. INTERMEDIATE COURSE, TYPE 1, PG 64-22 (MAXIMUM 25% R.A.P.)
- ⑥ APPLY CONSTRUCTION SEAL IMMEDIATELY AFTER SURFACE COURSE INSTALLATION

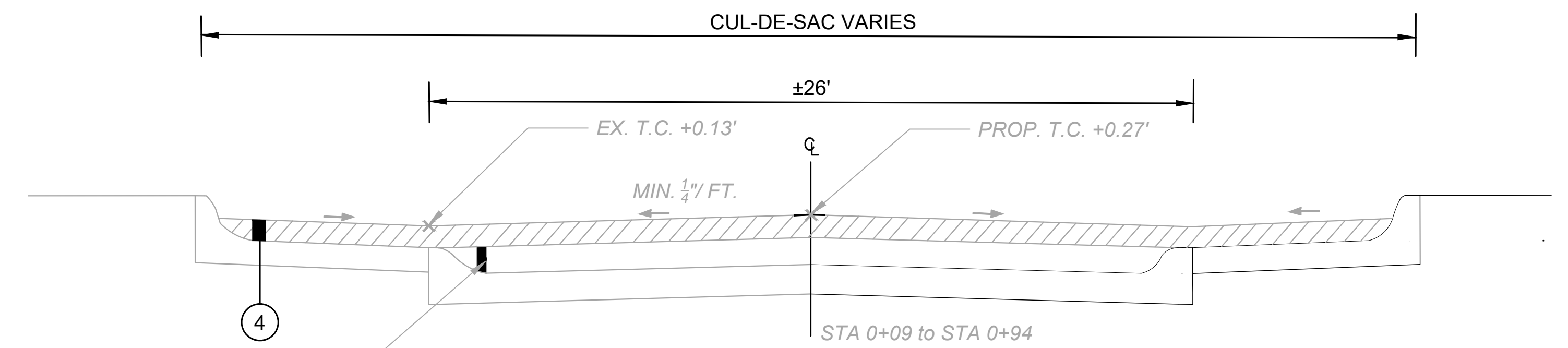
TYPICAL SECTION LEGEND

- ⑦ ITEM-SPECIAL LAWN RESTORATION, INCLUDING ITEM 653 4" TOPSOIL FURNISHED AND PLACED
- ⑧ ITEM 608 CONCRETE WALK INCLUDING ITEM 310 GRANULAR SUBBASE AND ITEM 202 WALK REMOVED, AS DIRECTED (AT LOCATIONS SHOWN ON PLAN)
- ⑨ UNDERDRAIN REPLACEMENT, AS DIRECTED
- ⑩ REMOVE AND REPAIR CURB, AS DIRECTED
- ⑪ ITEM 872 VOID REDUCING ASPHALT MEMBRANE
- Ⓐ ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN, AS DIRECTED
- Ⓑ ITEM 204 EXCAVATION OF SUBGRADE AND EMBANKMENT WITH GRANULAR MATERIAL, CCS, AS DIRECTED
- Ⓒ ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, AS DIRECTED

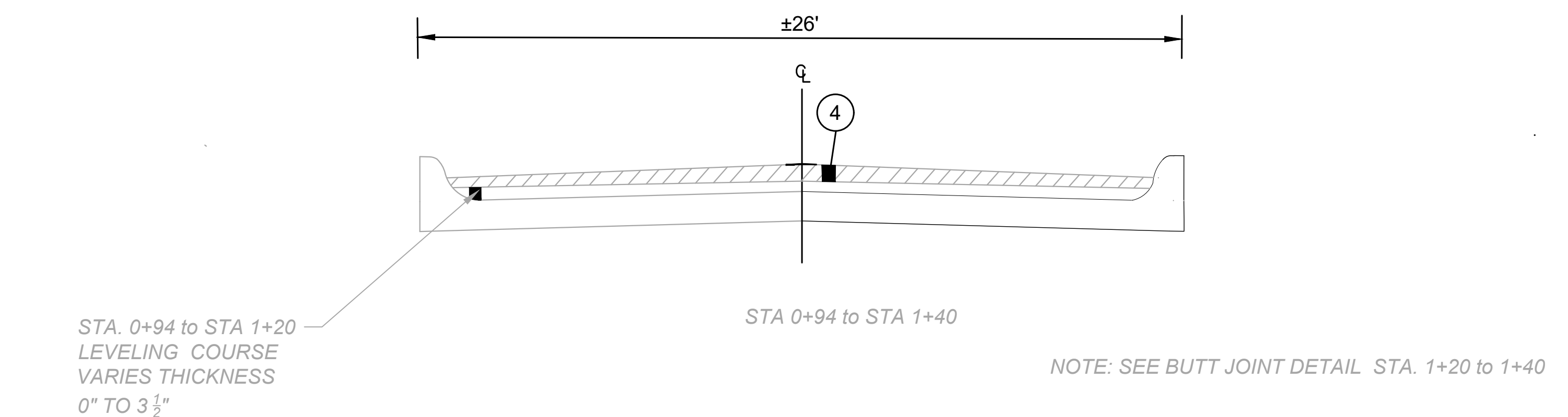
NOTE: PAVEMENT PLANING/GRINDING SHALL INCLUDE THE CLEANUP/REMOVAL OF THIN/LOOSE SHEETS OF ASPHALT (IF ANY). NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS REMOVAL REGARDLESS OF THE TIME PERIOD BETWEEN GRINDING AND RESURFACING.



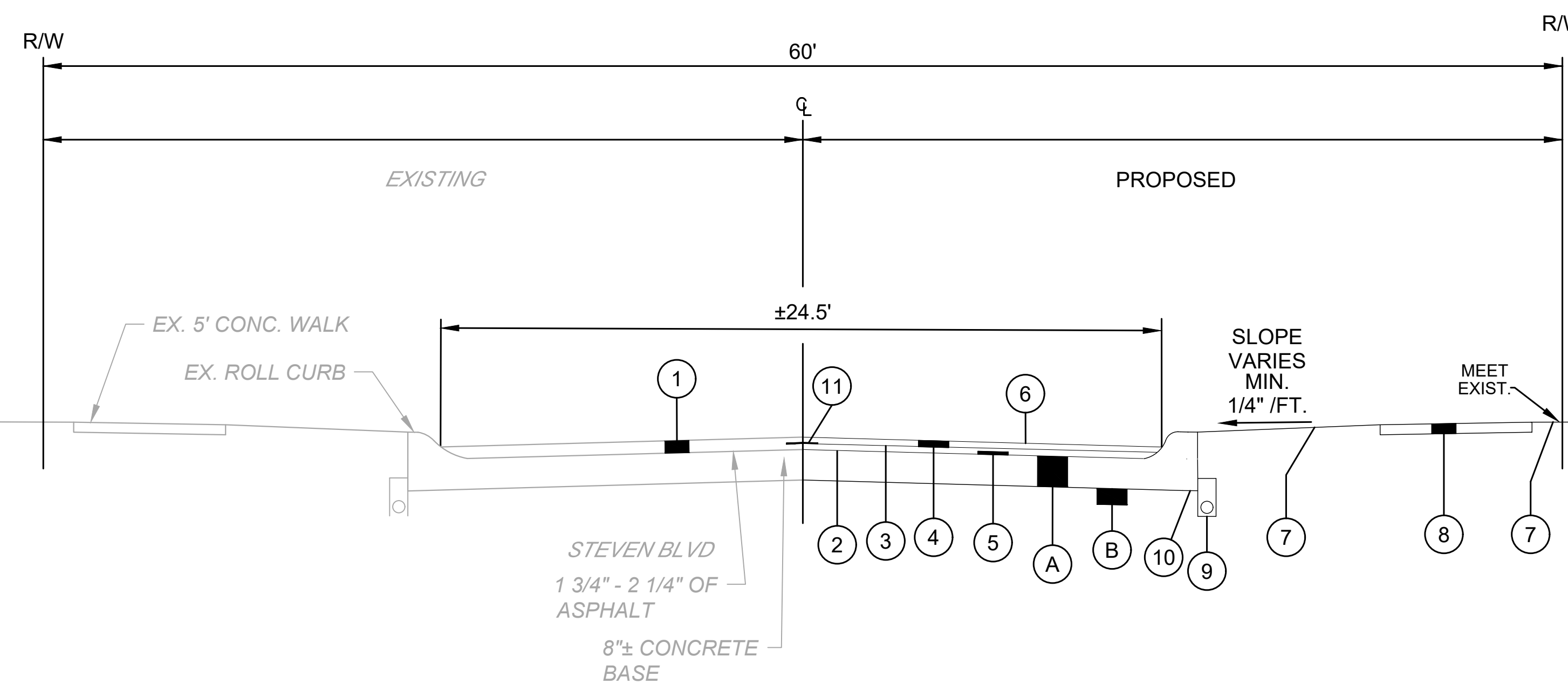
CARY JAY TYPICAL SECTION



THACKERY TYPICAL SECTION 1



THACKERY TYPICAL SECTION 2



STEVEN TYPICAL SECTION

NOTE: CONTRACTOR SHALL CREATE A NOTCH IN THE ROLL CURBS TO ACCOMMODATE THE ASPHALT OVERLAY.

NOTE: SEE BUTT JOINT DETAIL STA. 1+20 to 1+40



NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

TYPICAL SECTIONS

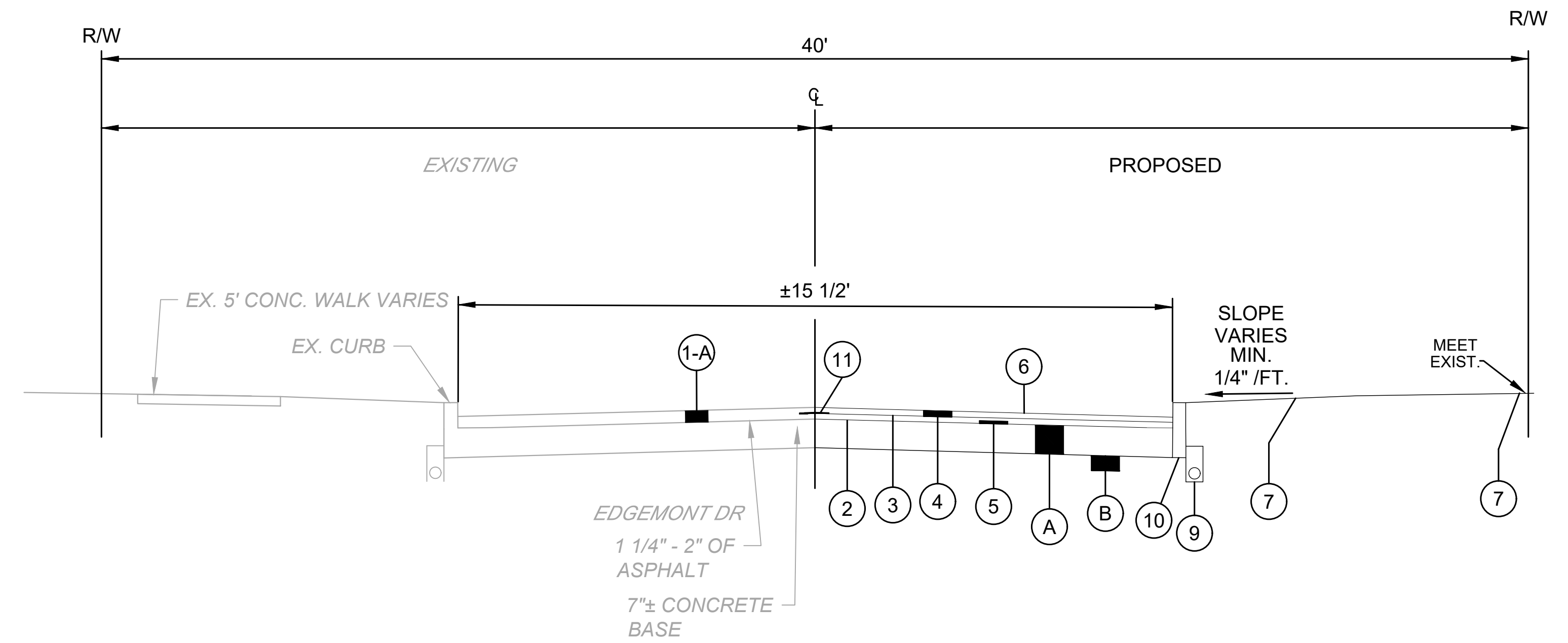
PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	TS-1
SHEET	4
OF	26

- ① FULL DEPTH ASPHALT PLANING, AS PER PLAN
- ② ITEM 407 TACK COAT, TRACKLESS TACK (APPLICATION RATE PER ODOT TABLE 407.06-1)
- ③ PAVEMENT REINFORCING FABRIC, AS SPECIFIED, INCL. TACK COAT
- ④ 1 1/2" ITEM 448 A.C. SURFACE COURSE, TYPE 1, PG 64-22 (ALL VIRGIN MATERIAL)
- ⑤ 1" ITEM 448 A.C. INTERMEDIATE COURSE, TYPE 1, PG 64-22 (MAXIMUM 25% R.A.P.)
- ⑥ APPLY CONSTRUCTION SEAL IMMEDIATELY AFTER SURFACE COURSE INSTALLATION

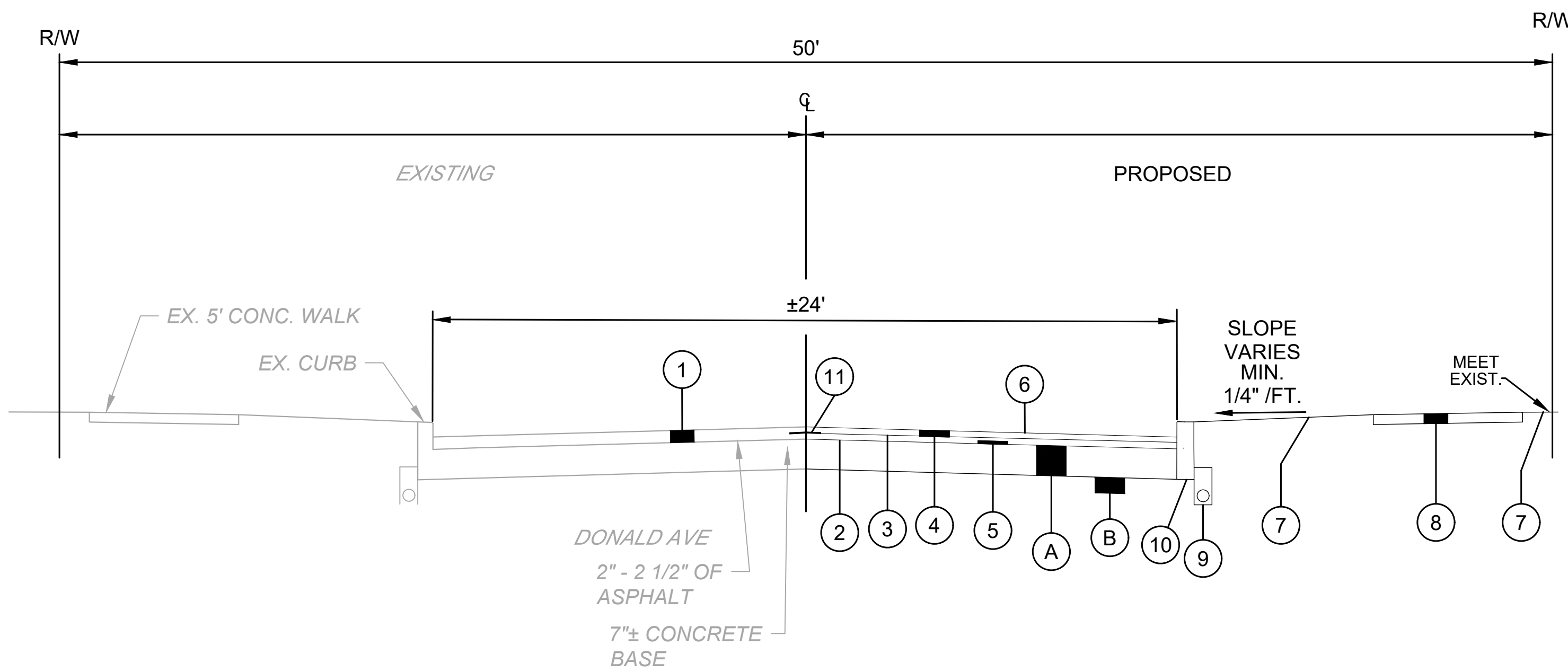
TYPICAL SECTION LEGEND

- ⑦ ITEM-SPECIAL LAWN RESTORATION, INCLUDING ITEM 653 4" TOPSOIL FURNISHED AND PLACED
- ⑧ ITEM 608 CONCRETE WALK INCLUDING ITEM 310 GRANULAR SUBBASE AND ITEM 202 WALK REMOVED, AS DIRECTED (AT LOCATIONS SHOWN ON PLAN)
- ⑨ UNDERDRAIN REPLACEMENT, AS DIRECTED
- ⑩ REMOVE AND REPAIR CURB, AS DIRECTED
- ⑪ ITEM 872 VOID REDUCING ASPHALT MEMBRANE
- Ⓐ ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN, AS DIRECTED
- Ⓑ ITEM 204 EXCAVATION OF SUBGRADE AND EMBANKMENT WITH GRANULAR MATERIAL, CCS, AS DIRECTED
- Ⓒ ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, AS DIRECTED

NOTE: PAVEMENT PLANING/GRINDING SHALL INCLUDE THE CLEANUP/REMOVAL OF THIN/LOOSE SHEETS OF ASPHALT (IF ANY). NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS REMOVAL REGARDLESS OF THE TIME PERIOD BETWEEN GRINDING AND RESURFACING.



EDGEMONT TYPICAL SECTION



DONALD TYPICAL SECTION

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

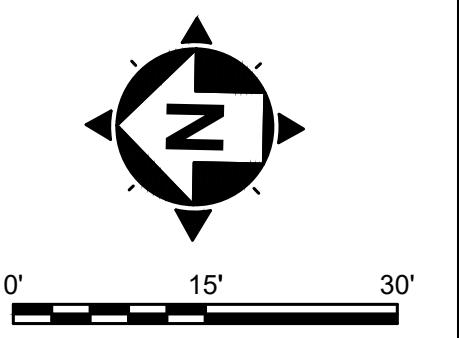
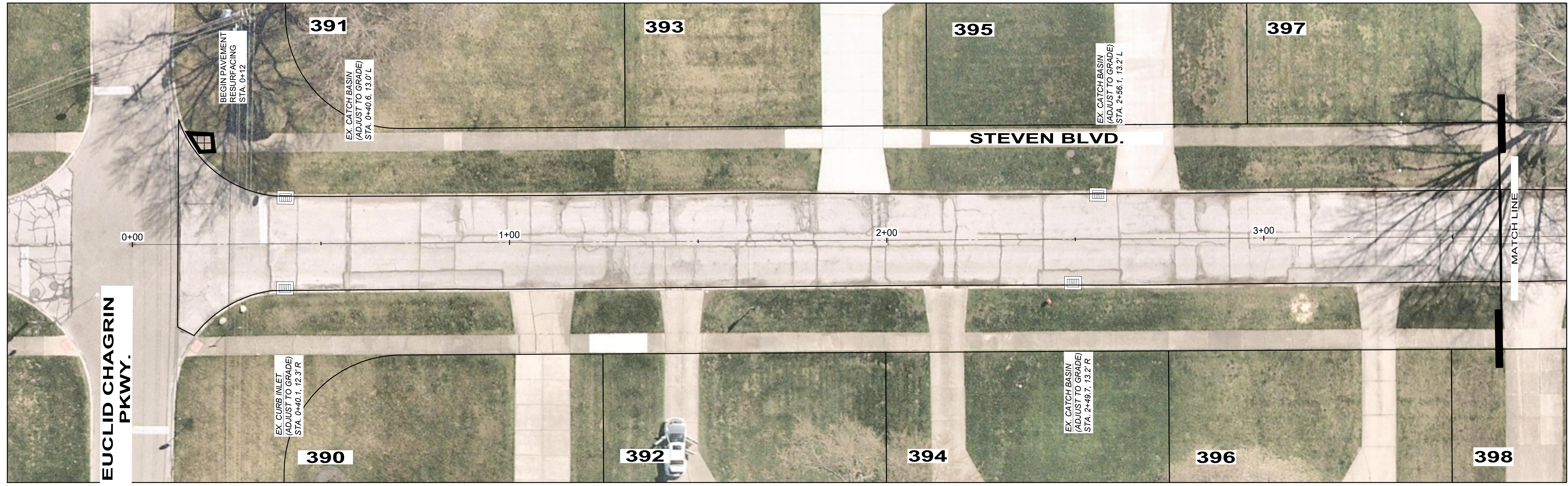
ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

TYPICAL SECTIONS

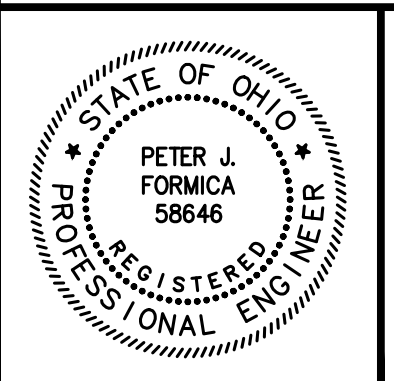
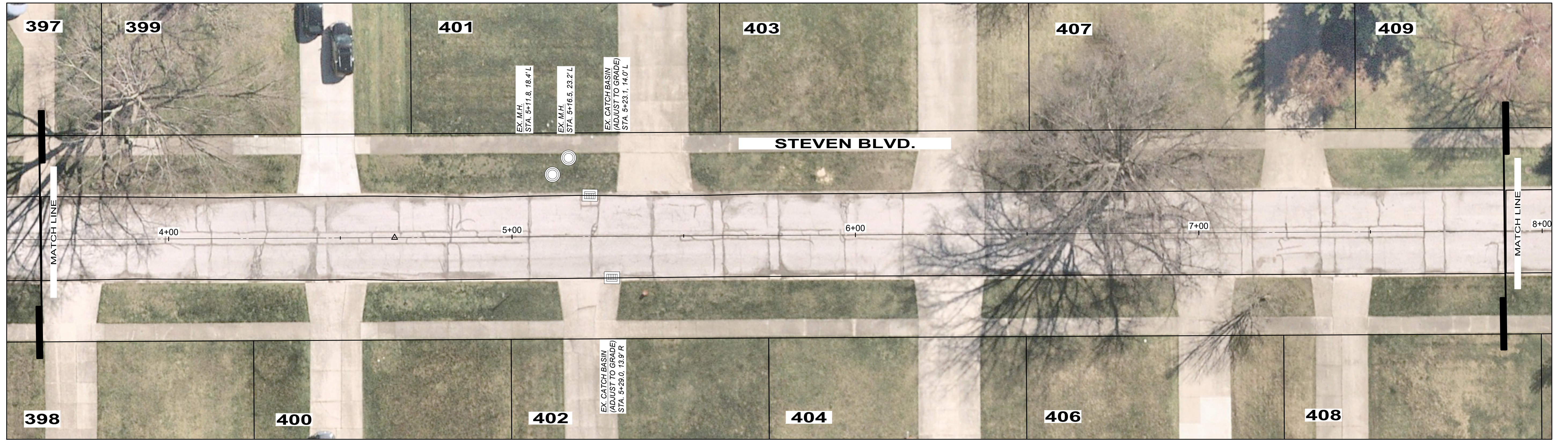
PROJECT NO.	
241378	
DISCIPLINE	
CIVIL	
SHEET NAME	
TS-2	
SHEET	OF
5	26



NO	REVISION	DATE



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



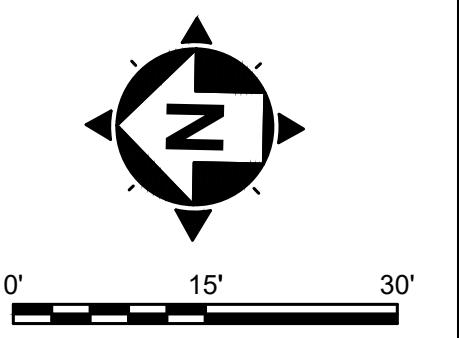
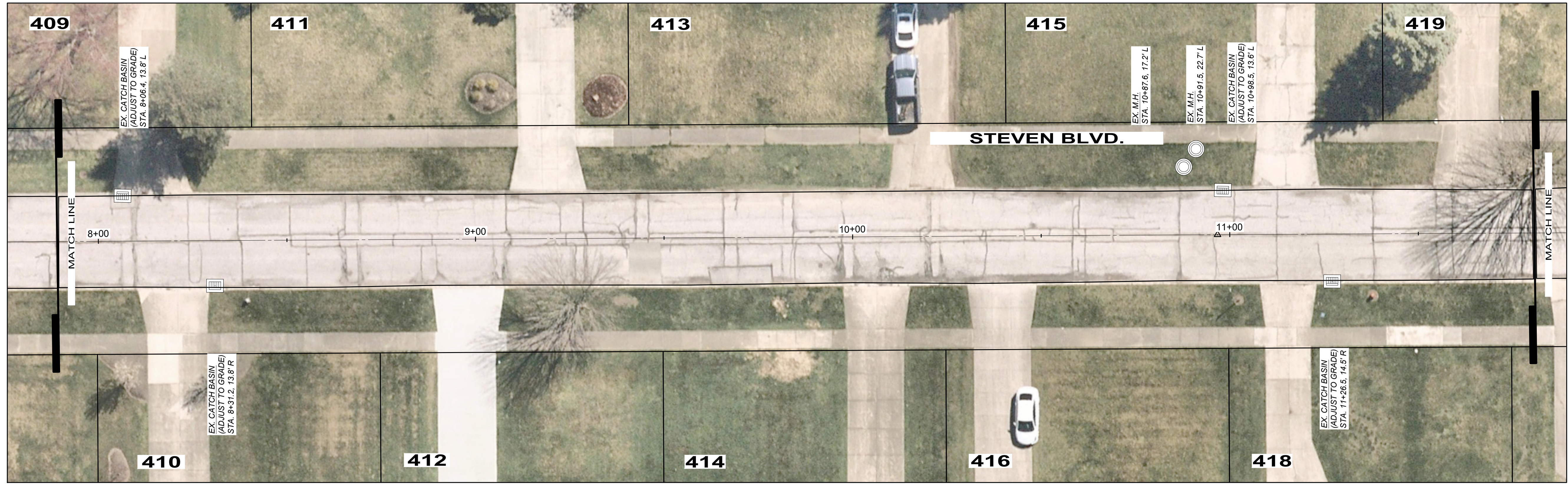
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

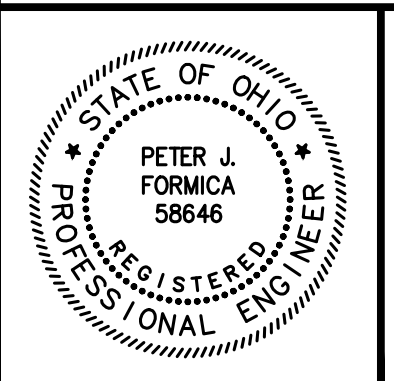
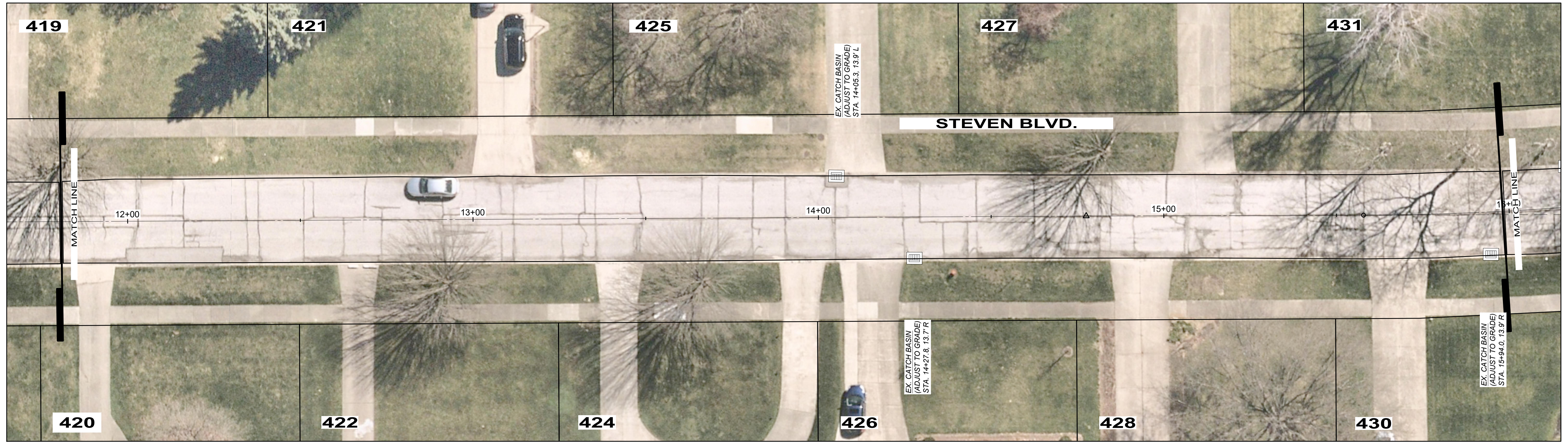
ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

STEVEN BOULEVARD

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		STEVEN 1
SHEET	OF	
6	26	



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP, SEE RAMP DETAILS



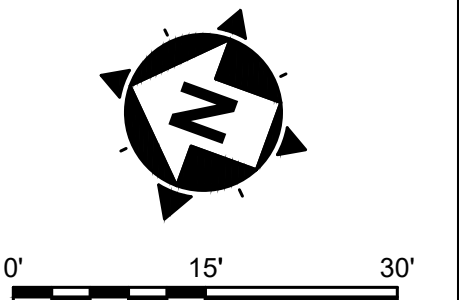
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

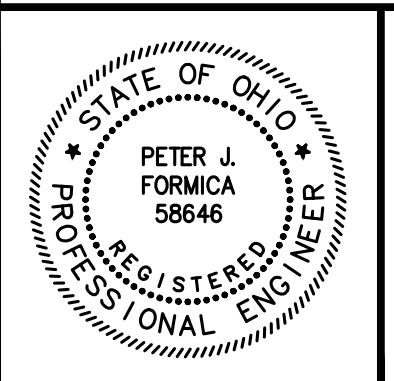
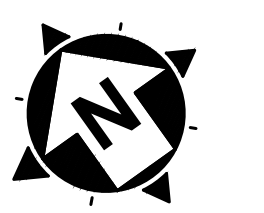
ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

STEVEN BOULEVARD

PROJECT NO. 241378	
DISCIPLINE CIVIL	
SHEET NAME STEVEN 2	
SHEET 7	OF 26



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



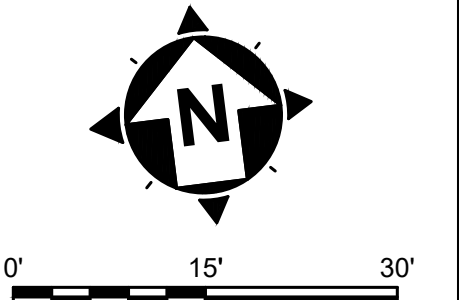
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

STEVEN BOULEVARD

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		STEVEN 3
SHEET	OF	
8	26	



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



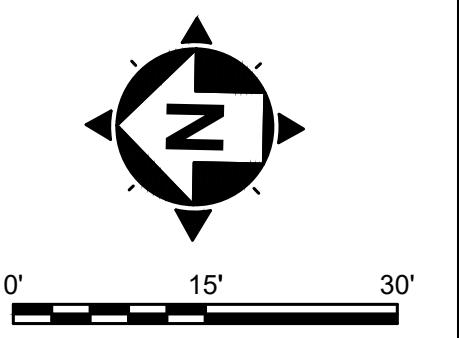
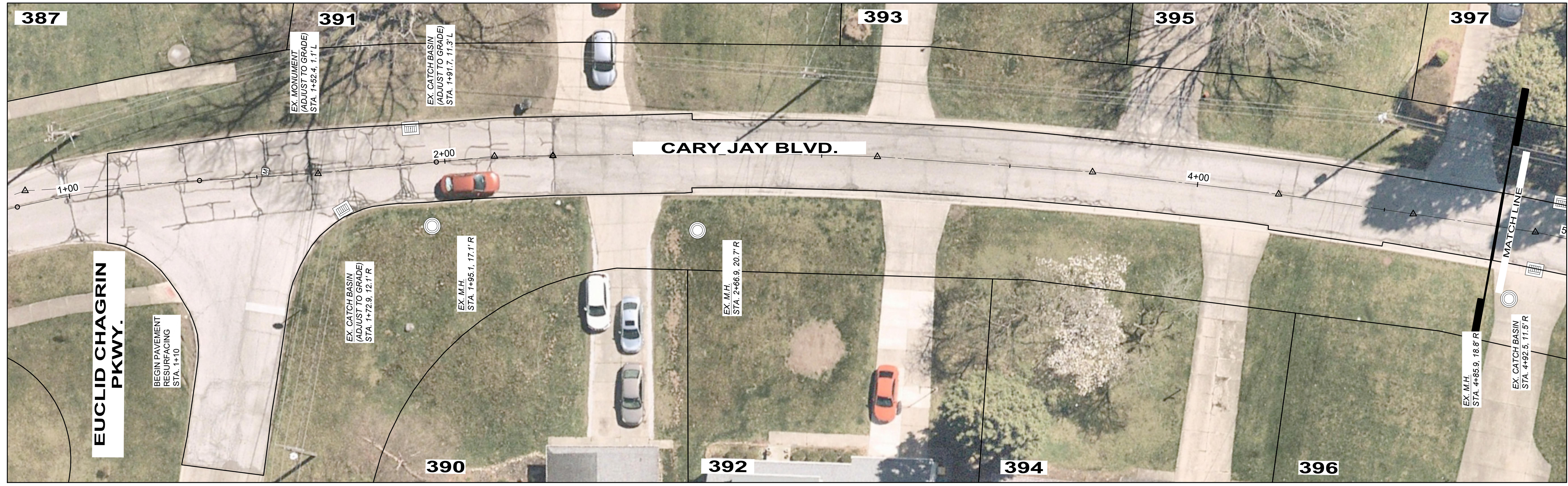
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

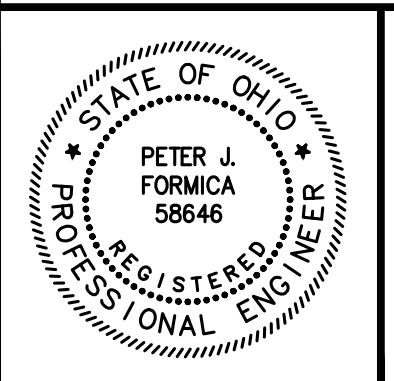
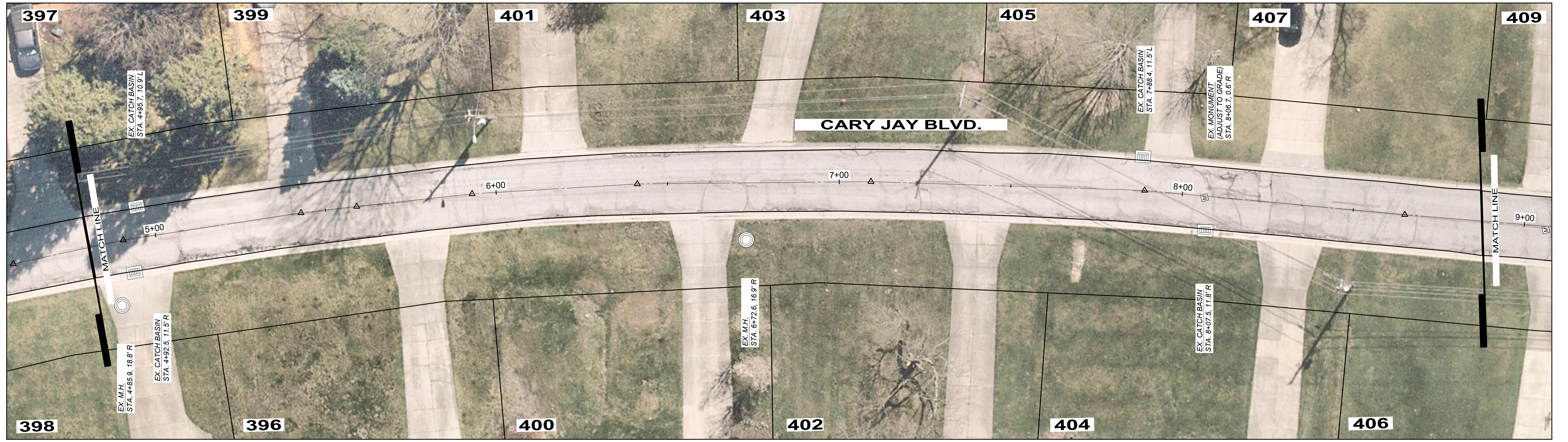
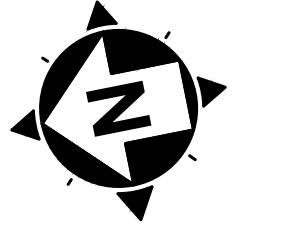
ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

STEVEN BOULEVARD

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		STEVEN 4
SHEET	OF	
9	26	



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



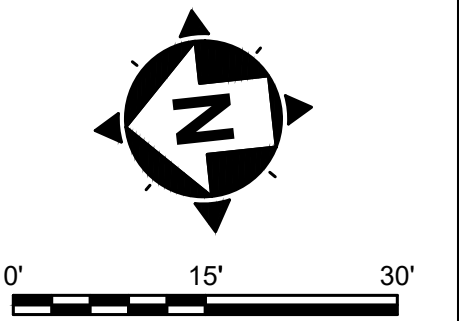
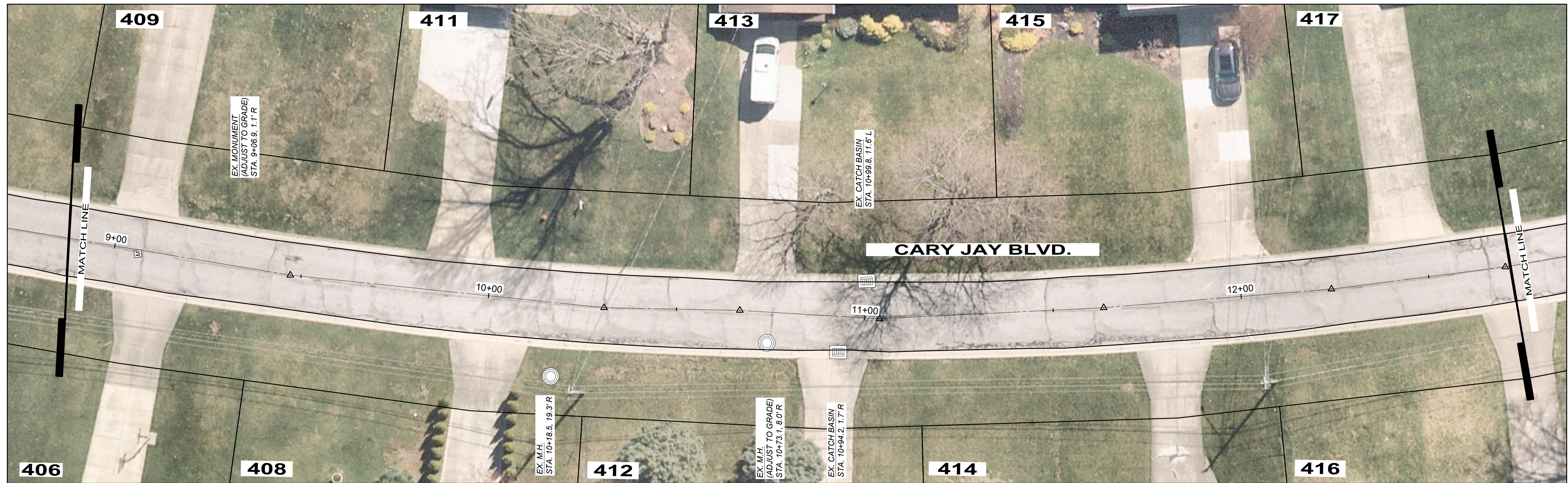
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

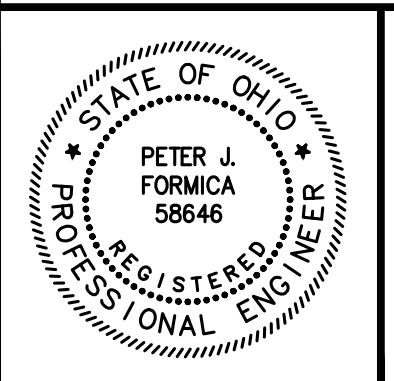
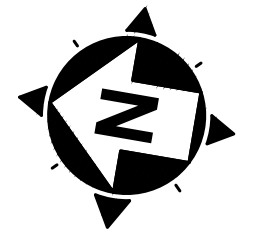
ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

CARY JAY BOULEVARD

PROJECT NO. 241378	
DISCIPLINE CIVIL	
SHEET NAME CARY JAY 1	
SHEET 10	OF 26



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



NO	REVISION	DATE

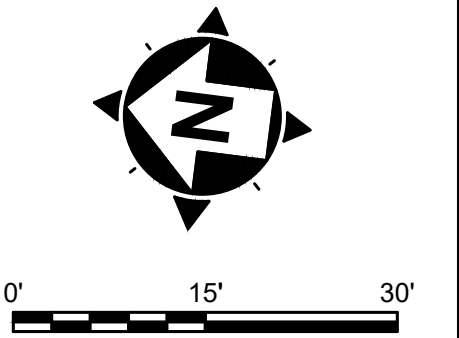
CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

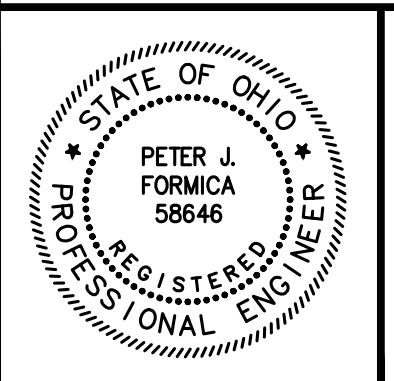
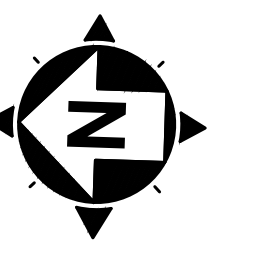
CARY JAY BOULEVARD

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		CARY JAY 2
SHEET	OF	
11	26	

H:\2024\241378\DWG\SHHEET\241378 - PLAN CONTRACT A.DWG - CARY JAY 2 - 7/15/2024 4:27:34 PM - BRADY PUGH



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



NO	REVISION	DATE

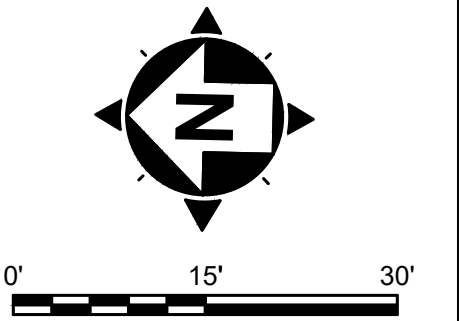
CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

CARY JAY BOULEVARD

PROJECT NO. 241378	
DISCIPLINE CIVIL	
SHEET NAME CARY JAY 3	
SHEET 12	OF 26

H:\2024\241378\DWG\SHETS\C_241378 - PLAN CONTRACT A.DWG - CARY JAY 3 - 7/15/2024 4:27:34 PM - BRADY PUGH



LEGEND

- DRIVE APRON REPLACEMENT
- ASPHALT RESURFACING AREA
- PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



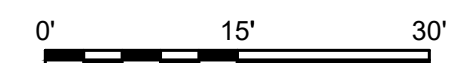
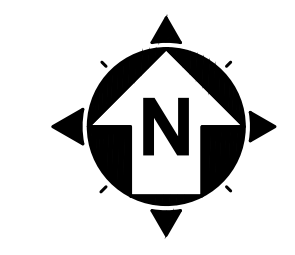
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

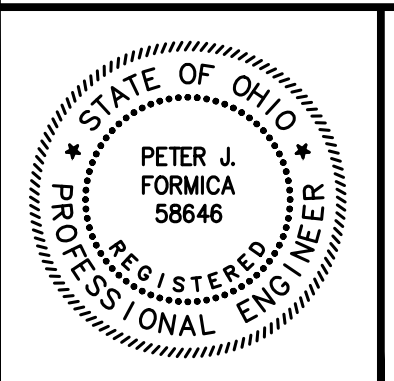
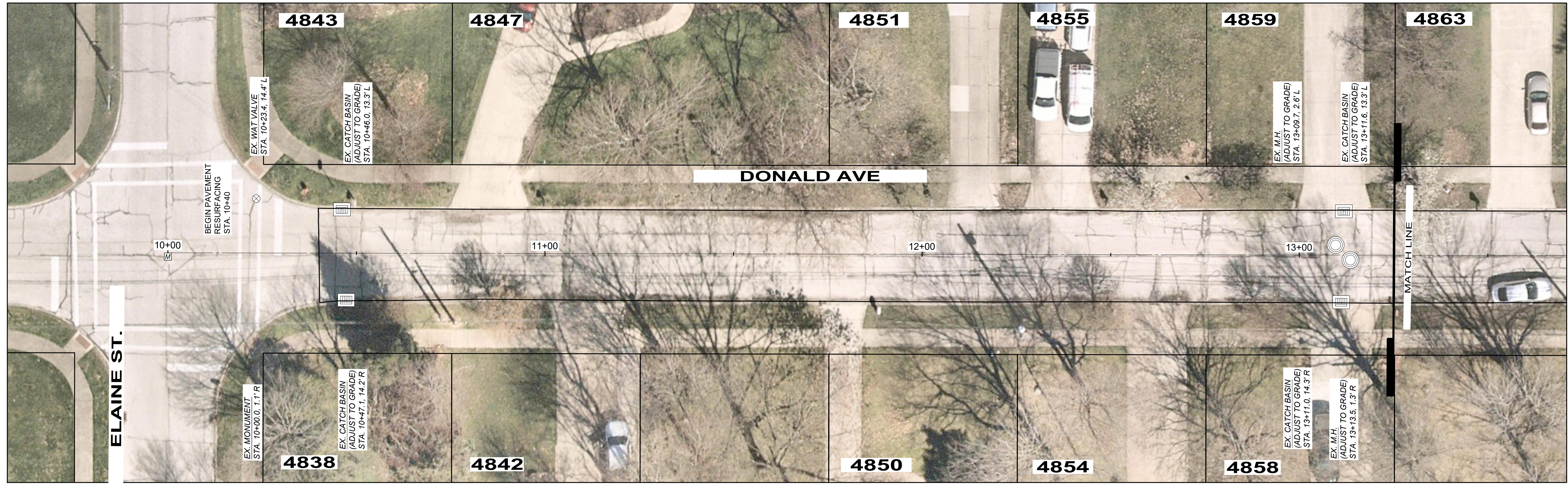
CARY JAY BOULEVARD

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		CARY JAY 4
SHEET	OF	
13	26	



LEGEND

- DRIVE APRON REPLACEMENT
- ASPHALT RESURFACING AREA
- PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



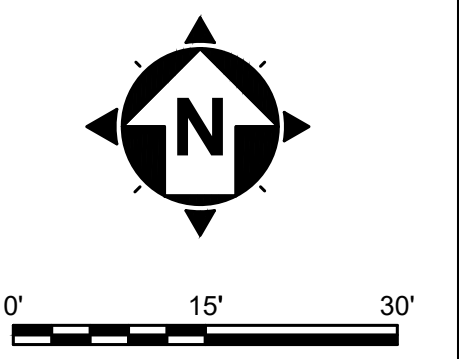
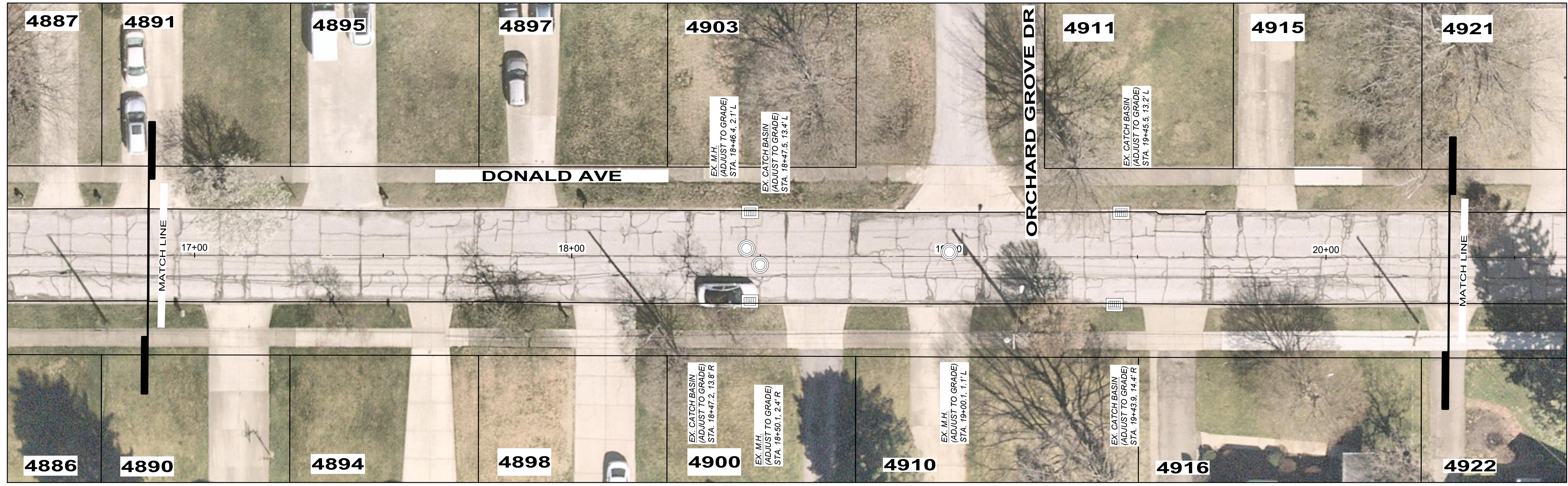
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

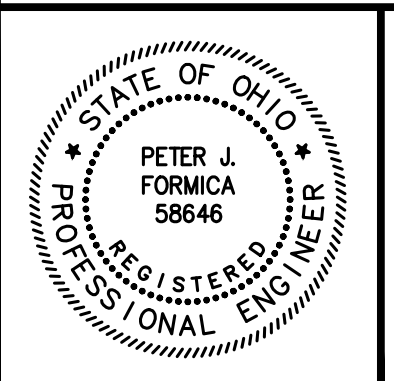
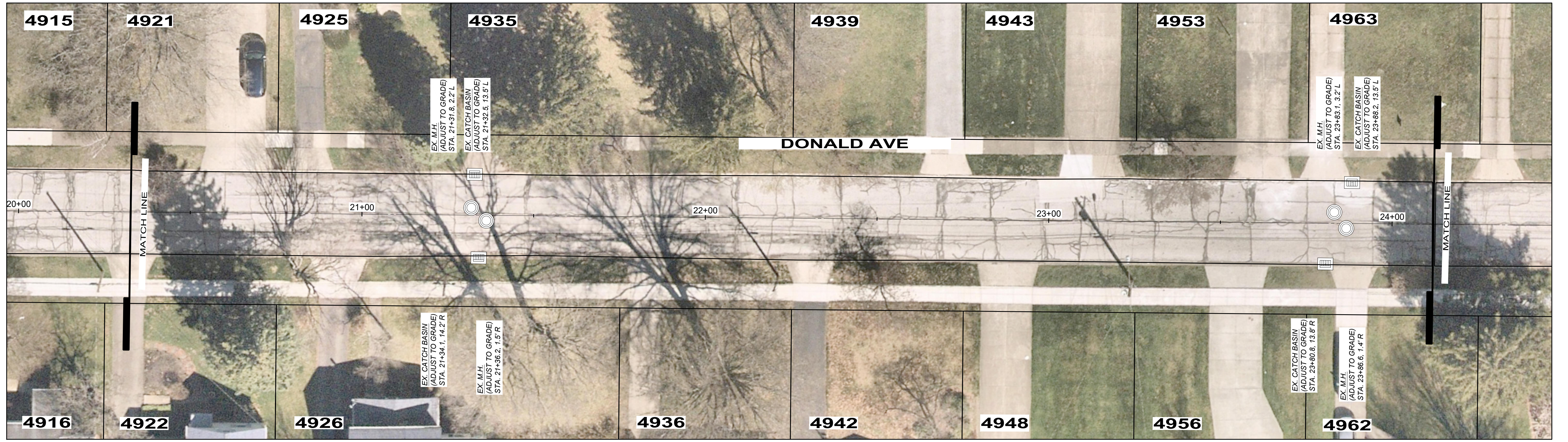
ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

DONALD AVE

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		DONALD AVE 1
SHEET	OF	
14	26	



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



NO	REVISION	DATE

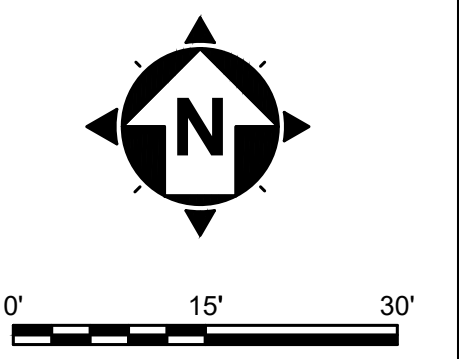
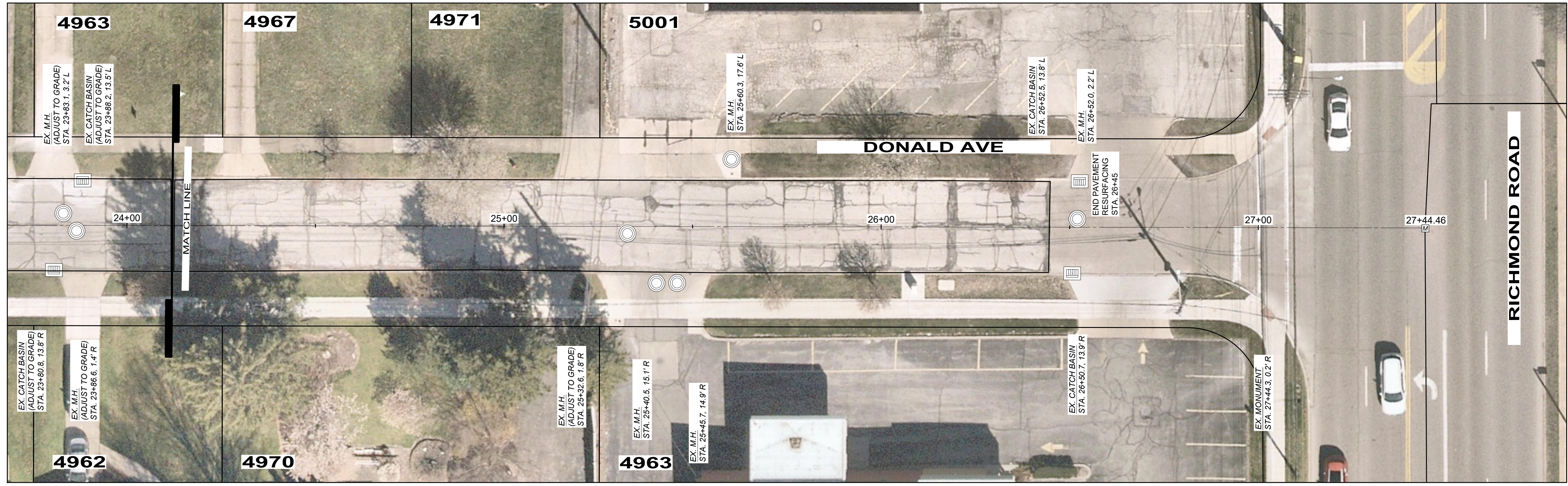
CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

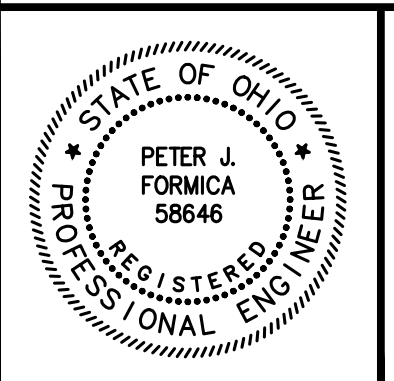
DONALD AVE

PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		DONALD AVE 2
SHEET	OF	
15	26	

H:\2024\241378\DWG\SHETS\241378 - PLAN CONTRACT A.DWG - DONALD AVE 2 - 11/20/24 4:27:34 PM - BRADY PUGH



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS

**2024 PAVEMENT REPAIR PROGRAM
CONTRACTS A & B**

CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

DONALD AVE

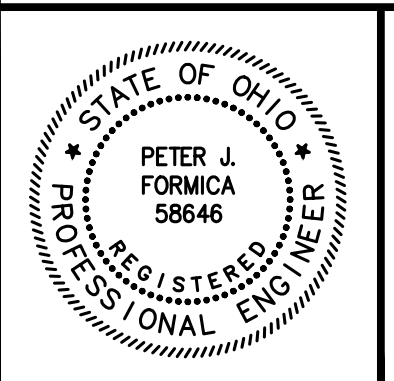
PROJECT NO.		241378
DISCIPLINE		CIVIL
SHEET NAME		DONALD AVE 3
SHEET	OF	
16	26	



LEGEND

- DRIVE APRON REPLACEMENT
- ASPHALT RESURFACING AREA
- PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS

NOTE: EXISTING LOW AREA STATION 2+85 TO 3+50 ENGINEER & CONTRACTOR TO DEVELOP A PLAN TO ELIMINATE



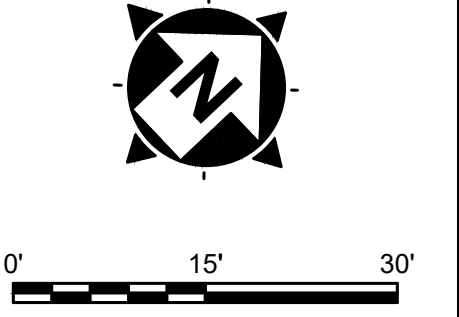
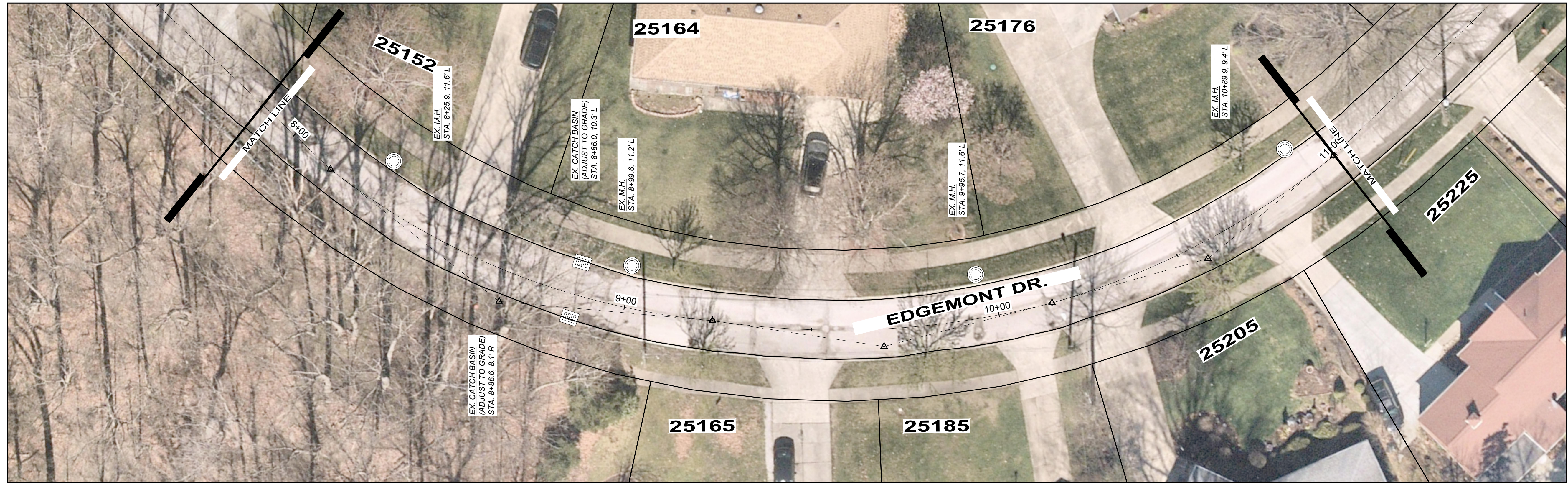
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

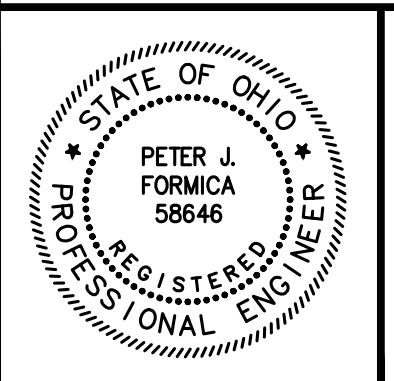
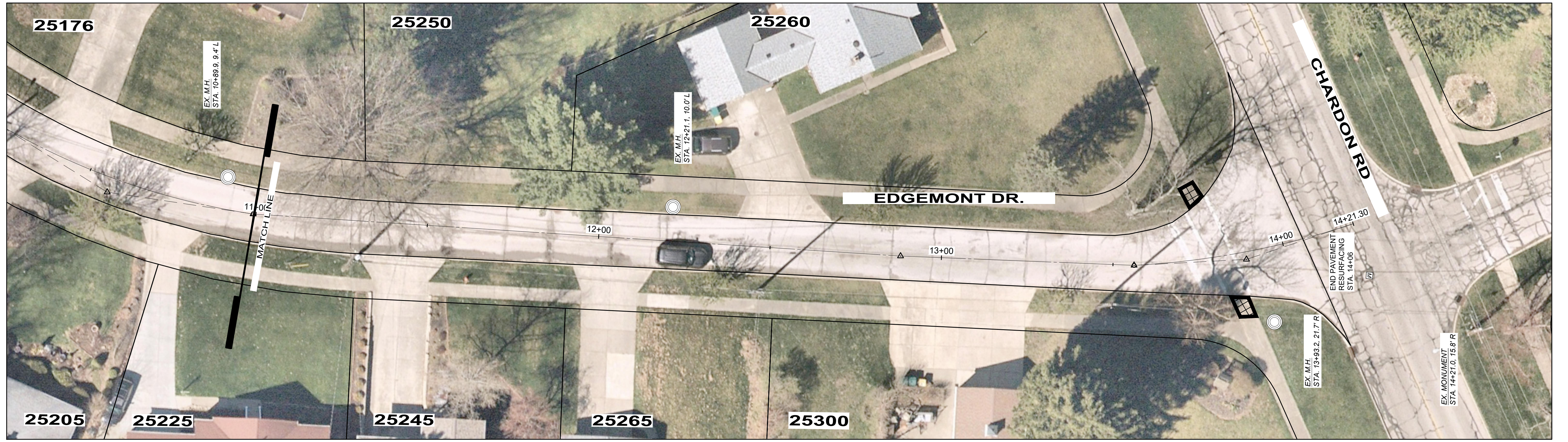
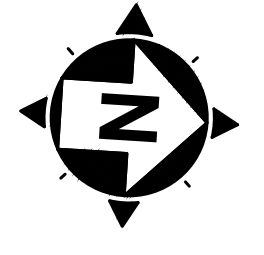
ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

EDGEMONT DR.

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	EDGEMONT DR
SHEET	1
OF	17
	26



- LEGEND
- DRIVE APRON REPLACEMENT
 - ASPHALT RESURFACING AREA
 - PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS



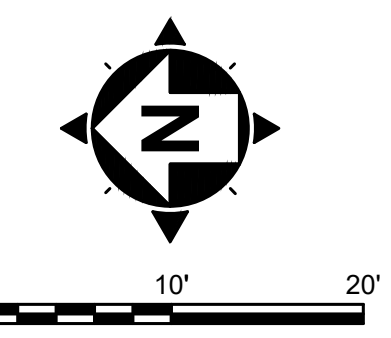
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO




ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

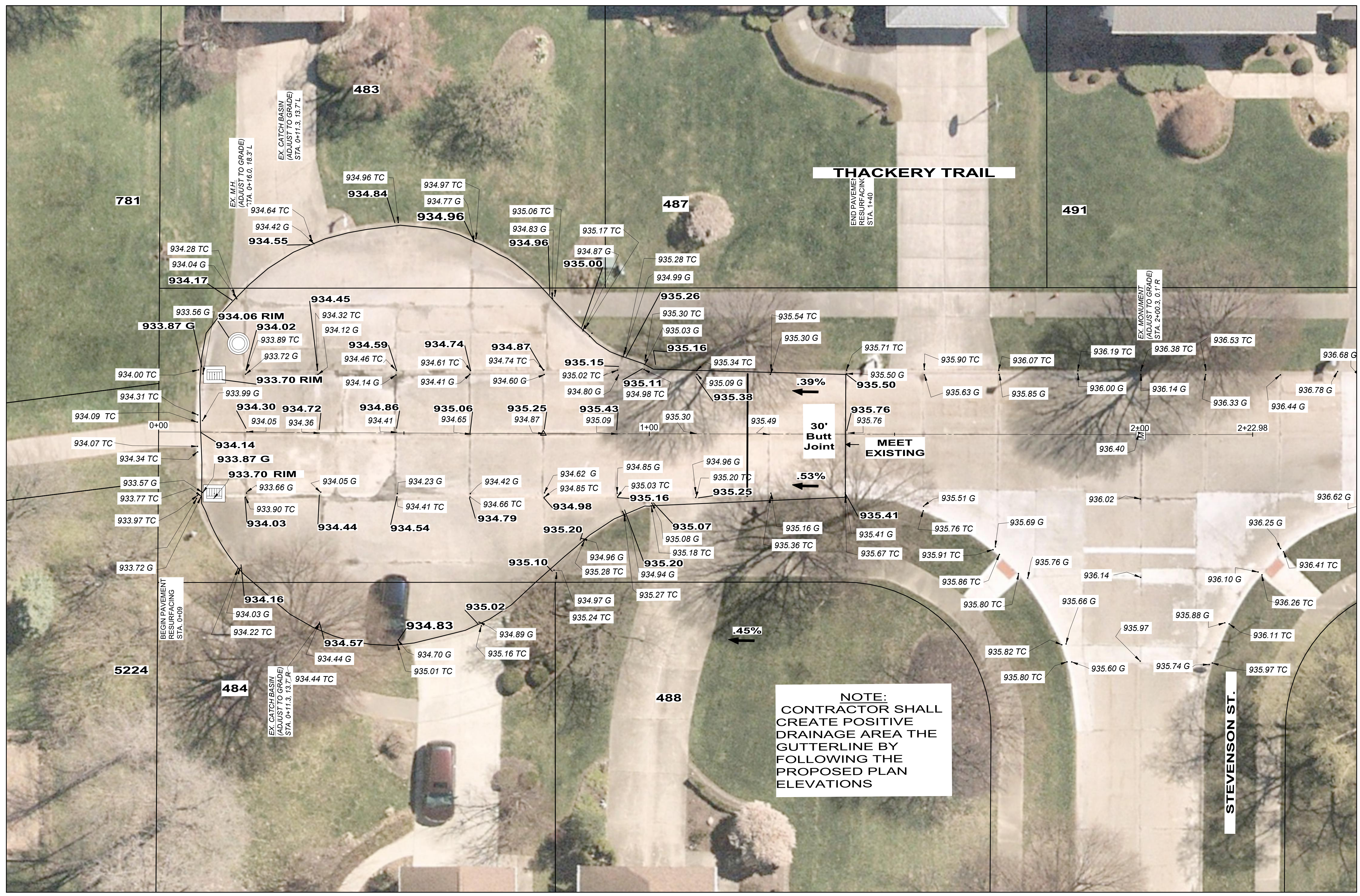
EDGEMONT DR.

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	EDGEMONT DR.
SHEET	2
OF	26

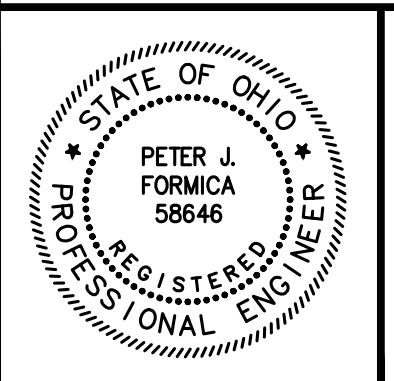


LEGEND

-  DRIVE APRON REPLACEMENT
-  ASPHALT RESURFACING AREA
-  PROPOSED ADA COMPLIANT RAMP. SEE RAMP DETAILS
- 93X.XX** PROPOSED ASPHALT GRADE
- 93X.XX EXISTING GRADE, TC/GUTTER



NOTE:
 CONTRACTOR SHALL
 CREATE POSITIVE
 DRAINAGE AREA THE
 GUTTERLINE BY
 FOLLOWING THE
 PROPOSED PLAN
 ELEVATIONS



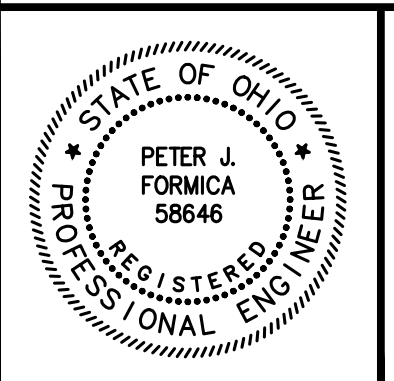
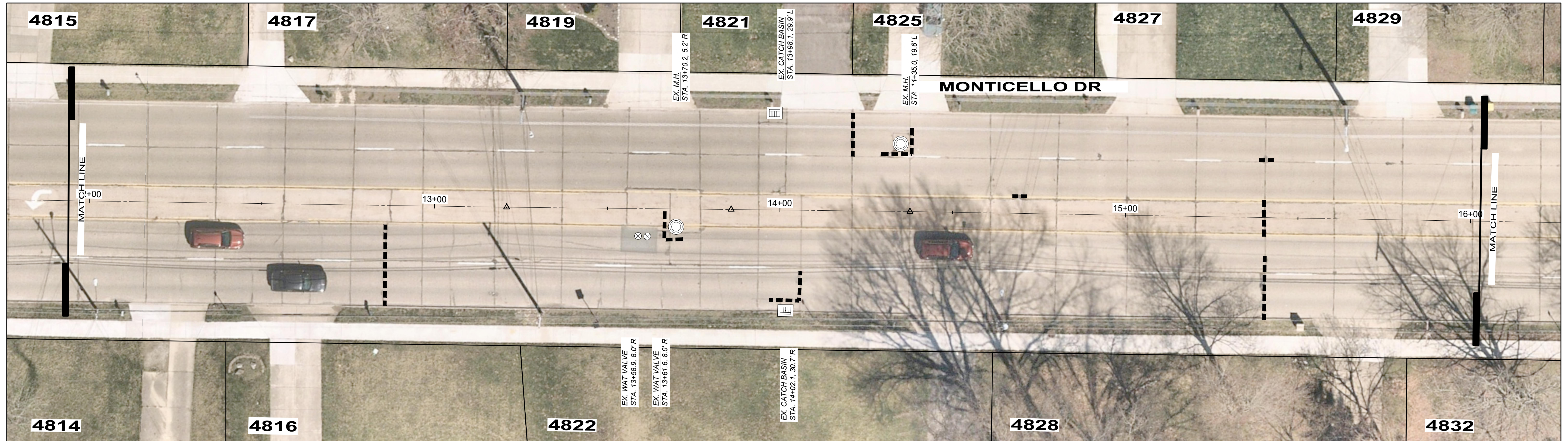
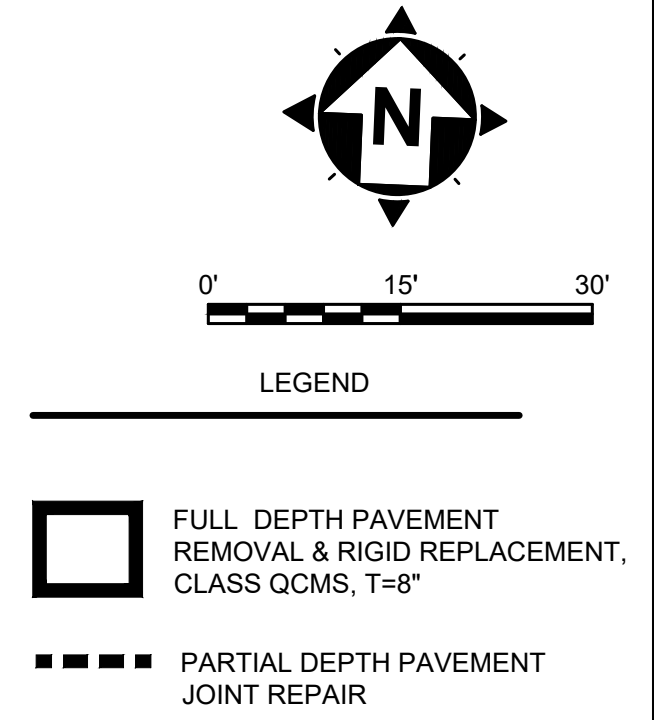
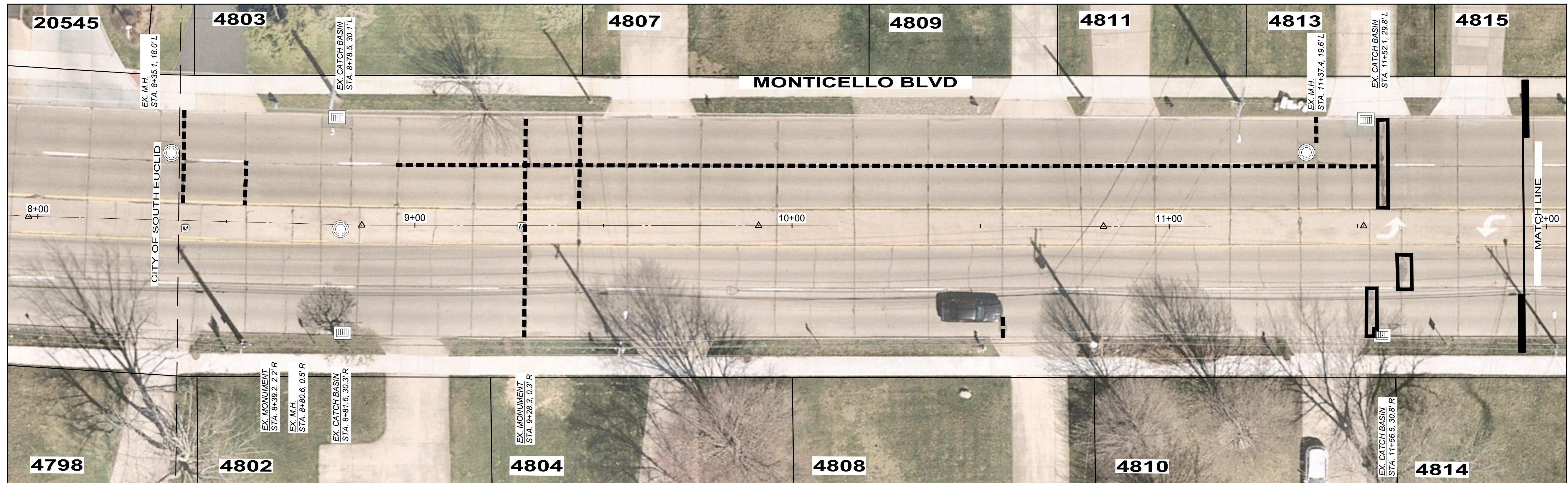
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
 CONTRACTS A & B**
 CUYAHOGA COUNTY, OHIO

ISSUED FOR: BID SET
 ISSUE DATE: MARCH 2024
 SCALE: AS SHOWN
 DESIGNED BY: PJF
 DRAWN BY: PJF
 CHECKED BY: PJF

THACKERY TRAIL

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	THACKERY TRAIL
SHEET	19
OF	26



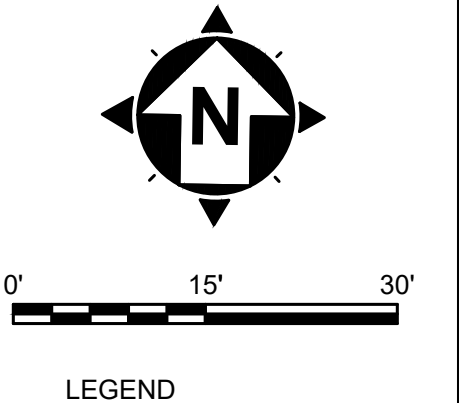
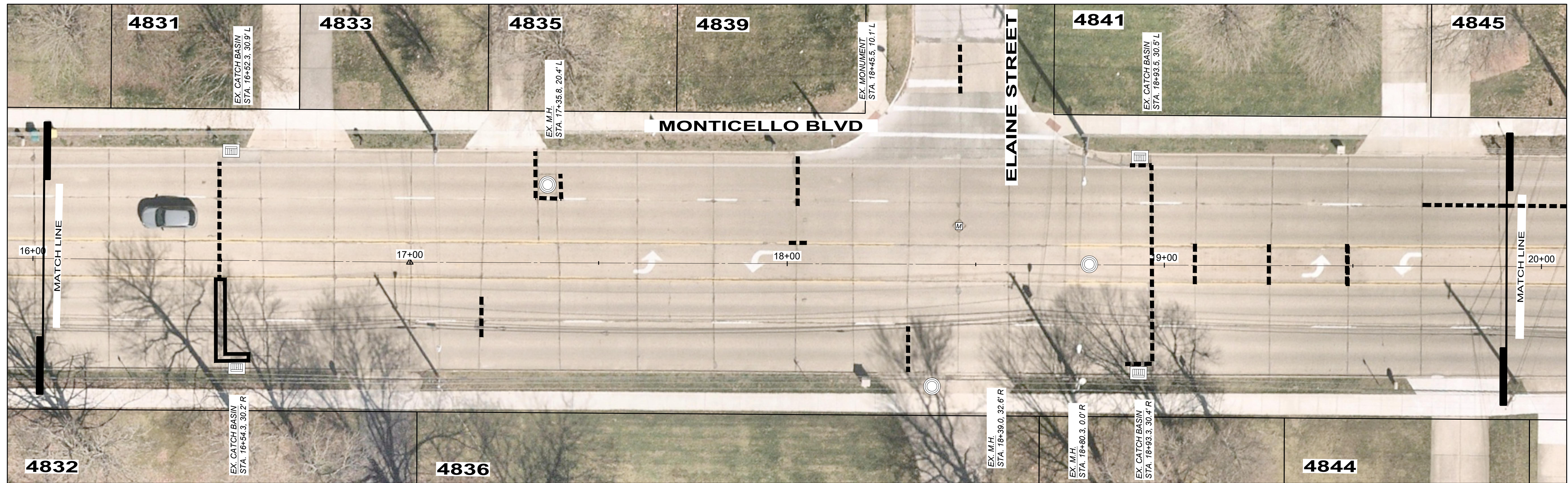
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACT B - CONCRETE
PAVEMENT REPAIR
 CUYAHOGA COUNTY, OHIO

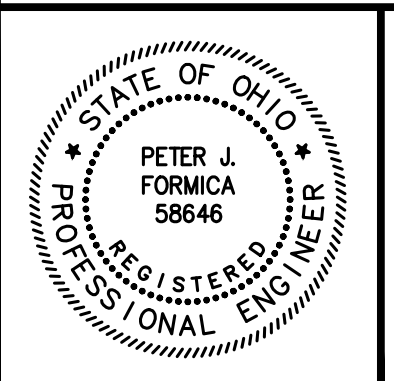
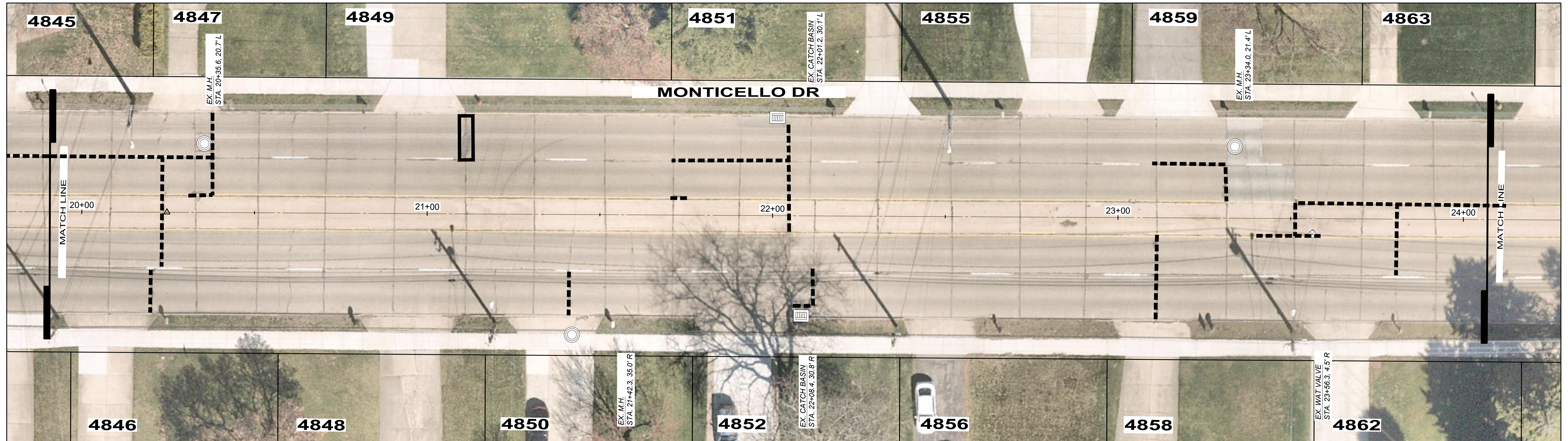
ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

MONTICELLO BLVD.

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	MONTICELLO BLVD 1
SHEET OF	20 OF 26



- LEGEND**
- FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS QCMS, T=8"
 - PARTIAL DEPTH PAVEMENT JOINT REPAIR



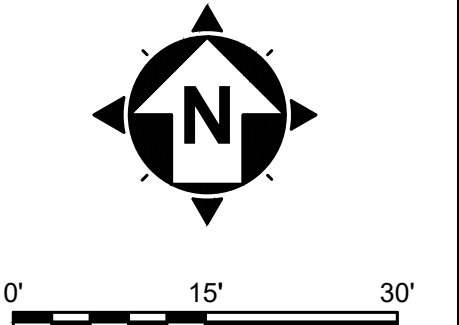
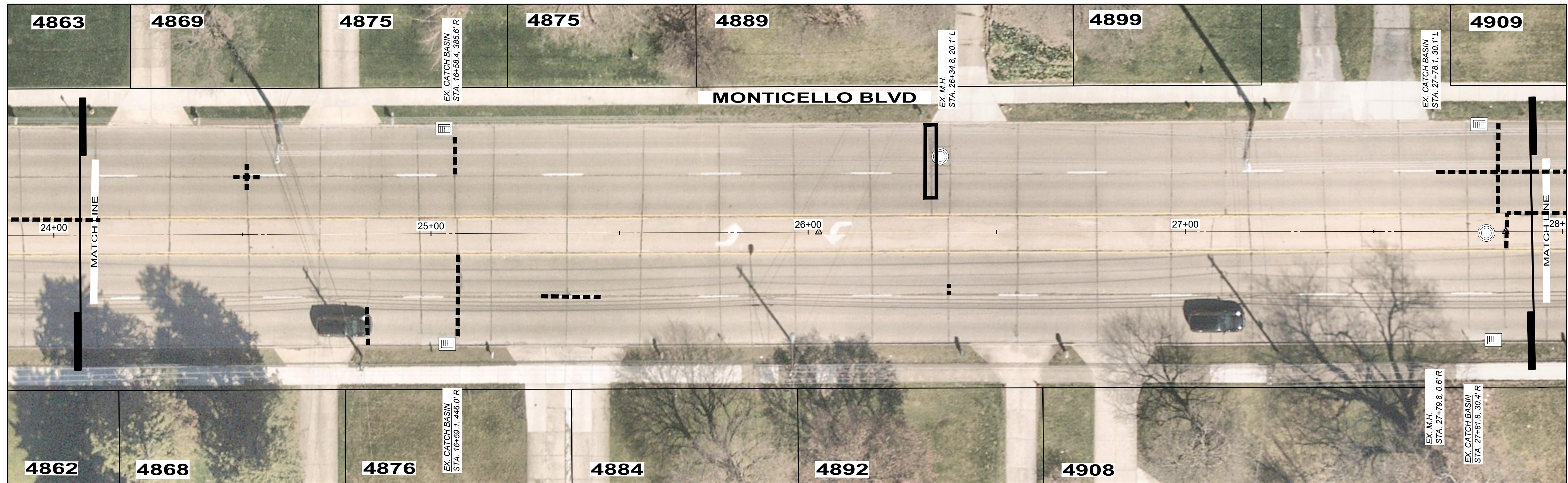
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACT B - CONCRETE
PAVEMENT REPAIR
 CUYAHOGA COUNTY, OHIO

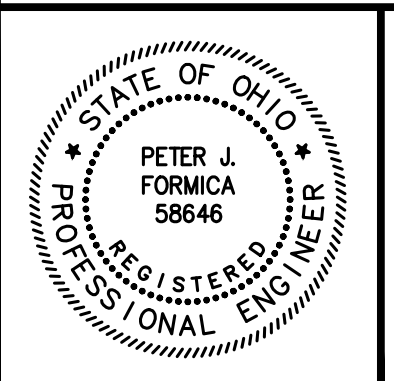
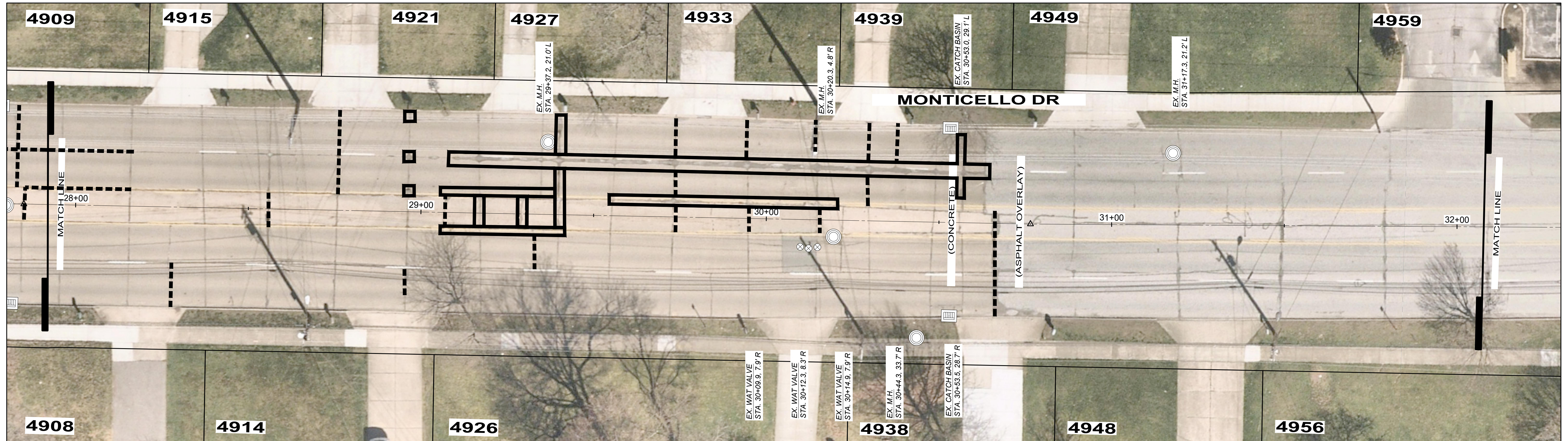
ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

MONTICELLO BLVD.

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	MONTICELLO BLVD 2
SHEET OF	21 OF 26



- LEGEND
- FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS QCMS, T=8"
 - PARTIAL DEPTH PAVEMENT JOINT REPAIR



NO	REVISION	DATE

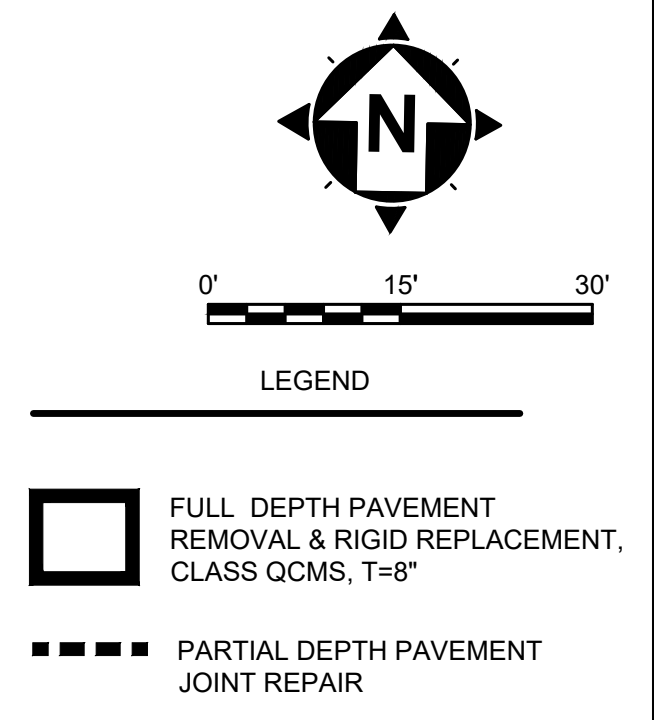
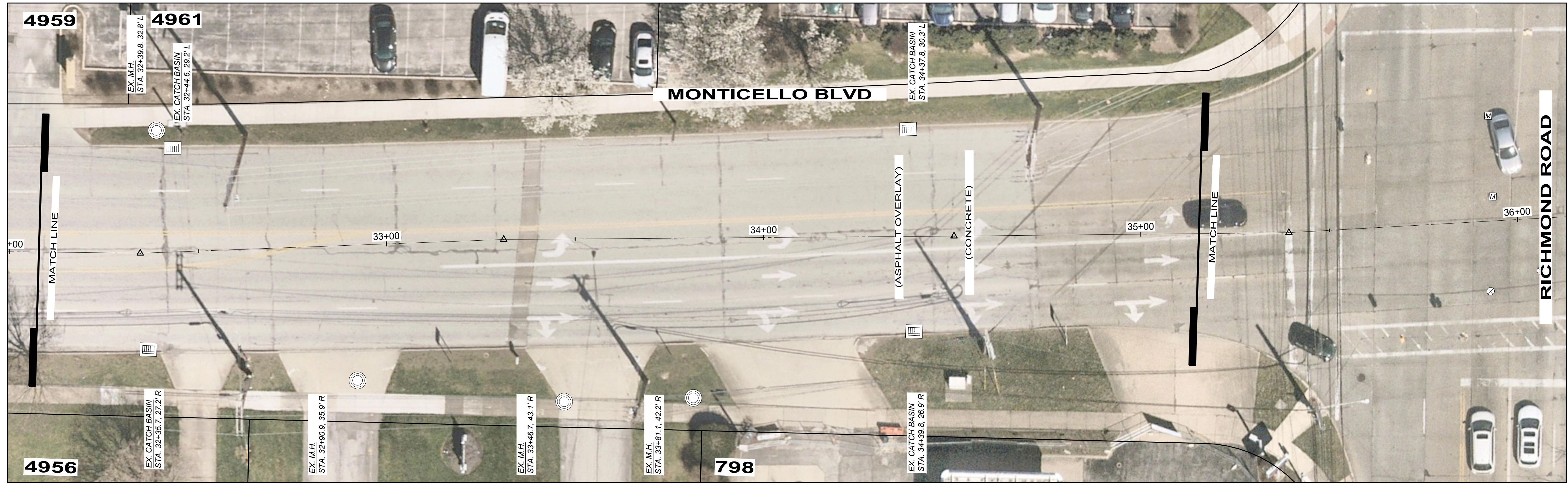
CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACT B - CONCRETE
PAVEMENT REPAIR
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

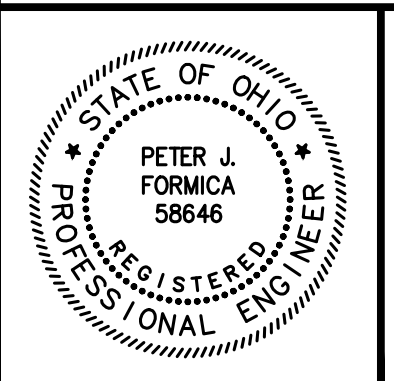
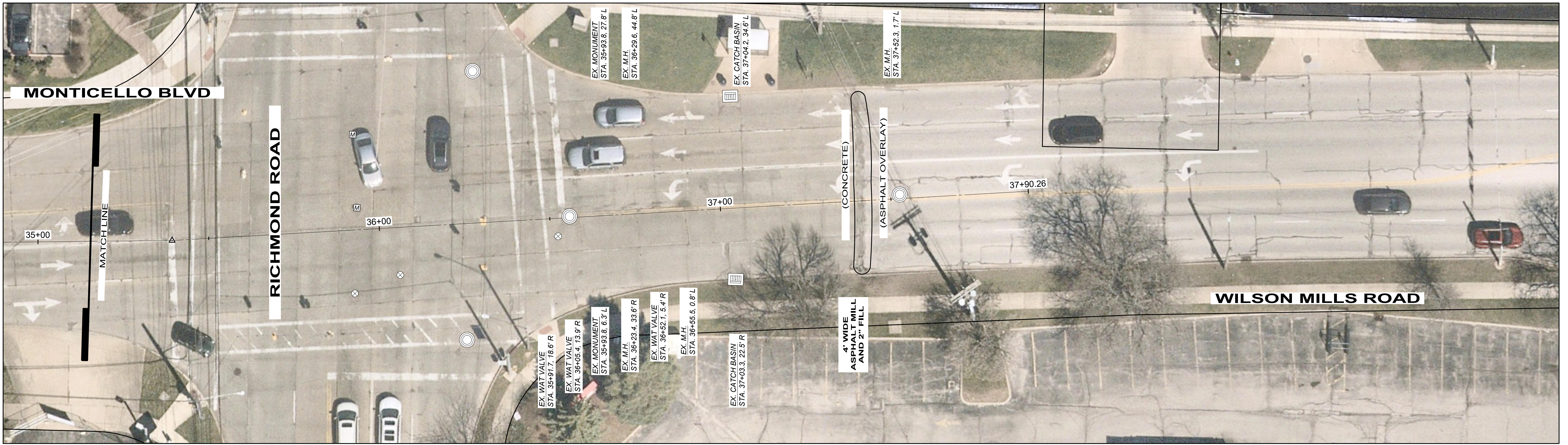
MONTICELLO BLVD.

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	MONTICELLO BLVD 3
SHEET OF	22 OF 26

H:\2024\241378\DWG\SHETS\C_241378 - PLAN CONTRACT B.DWG - MONTICELLO BLVD 3 - 1150204 4:33:45 PM - BRADY PUGH



- LEGEND**
- FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS QCMS, T=8"
 - PARTIAL DEPTH PAVEMENT JOINT REPAIR



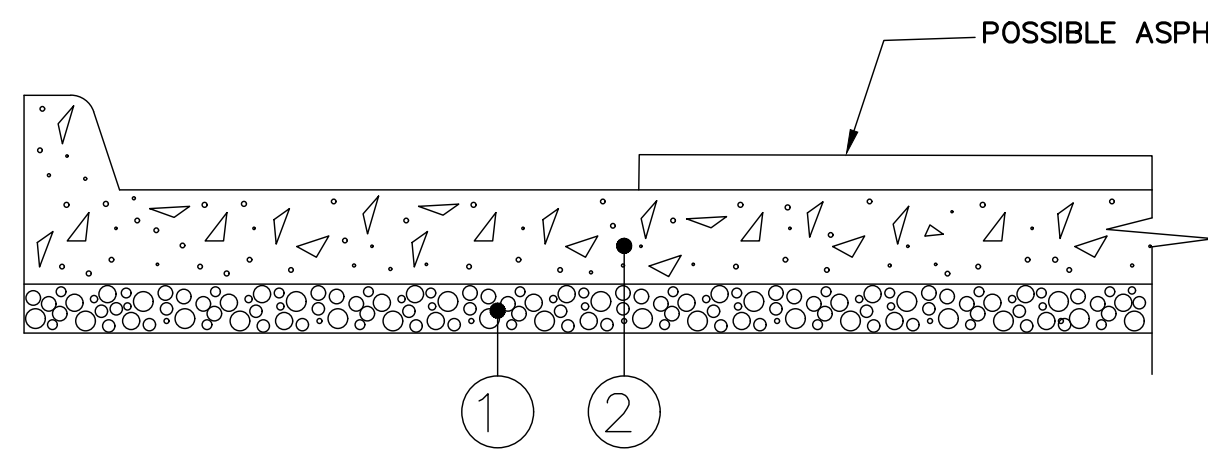
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACT B - CONCRETE
PAVEMENT REPAIR
 CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

MONTICELLO BLVD. / WILSON MILLS ROAD

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	MONTICELLO BLVD 4
SHEET OF	23 OF 26



- ① 3" ODOT ITEM 304 COMPACTED LIMESTONE AGGREGATE BASE
- ② 8" MIN. ODOT ITEM 255 INCLUDING INTEGRAL CURB, DOWEL/HOOK BOLT INSTALLATION. (CONCRETE THICKNESS SHALL NOT BE LESS THAN EXISTING)

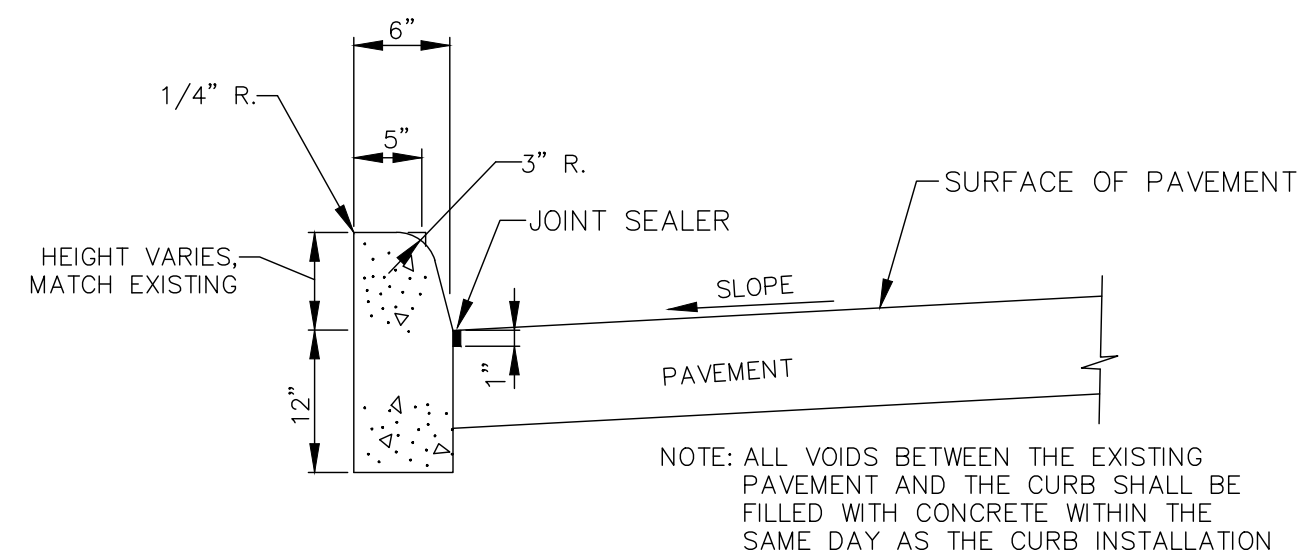
**JOINT / SLAB REPLACEMENT
DETAIL
(ITEM 255)**

NOTES:

- EXCAVATION AND REMOVAL OF EXISTING PAVEMENT AND 3" OF SUBGRADE SHALL BE INCLUDED IN THE UNIT PRICE OF ITEM 255.
- PREP, INSTALLATION, AND COMPACTION OF 3" OF ODOT ITEM 304 SHALL BE INCLUDED IN THE PRICE OF ITEM 255.
- CONCRETE SHALL BE CLASS QC MS.
- FOR ALL PAVEMENT REPAIRS, ASPHALT AND/OR CONCRETE PAVEMENT SHALL BE FULL DEPTH SAWCUT.
- ALL JOINTS SHALL BE SEALED WITH HOT APPLIED SEALER - ASTM D6690 TYPE II.
- HOOK BOLTS SHALL BE INSTALLED AT 18" O/C ALONG ALL LONGITUDINAL JOINTS.
- DOWELS SHALL BE INSTALLED AT 12" O/C ALONG ALL TRANSVERSE JOINTS.

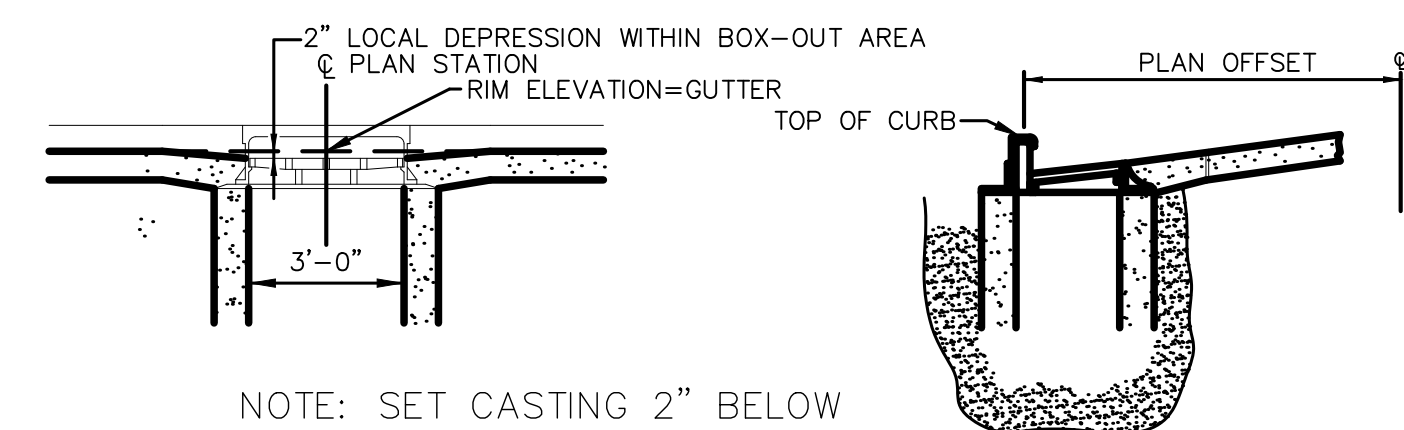
NOTE: ALL VOIDS BETWEEN THE EXISTING PAVEMENT AND THE CURB AND/OR GUTTER, SHALL BE FILLED WITH CONCRETE WITHIN THE SAME DAY AS THE CURB AND/OR GUTTER INSTALLATION

NOTE: SAWCUTS SHALL BE LOCATED AT ALL EXISTING TRANSVERSE JOINTS AND AT THE MIDPOINT OF SAME. SAWCUTS SHALL EXTEND A MINIMUM OF 1/4 THE DEPTH OF THE CONCRETE AND SHALL EXTEND THROUGH THE CURB.



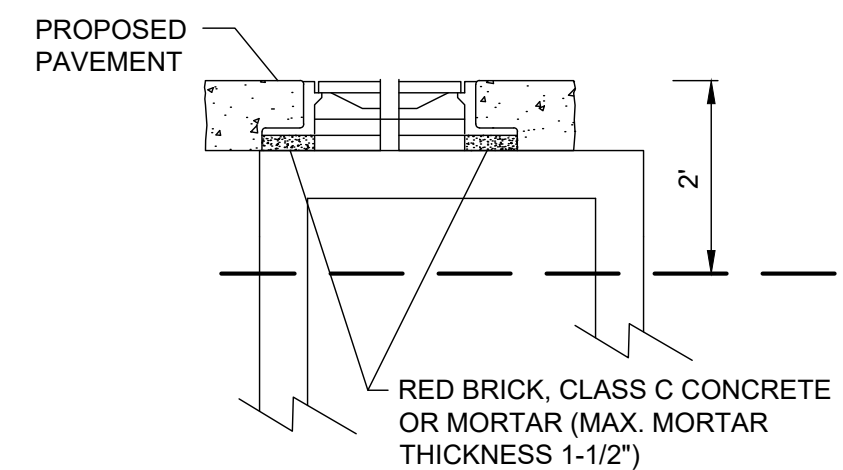
**CURB, TYPE 6
(VERTICAL CURB)**

NOTE: ALL VOIDS BETWEEN THE EXISTING PAVEMENT AND THE CURB SHALL BE FILLED WITH CONCRETE WITHIN THE SAME DAY AS THE CURB INSTALLATION



NOTE: SET CASTING 2" BELOW ROADWAY GUTTER GRADE.

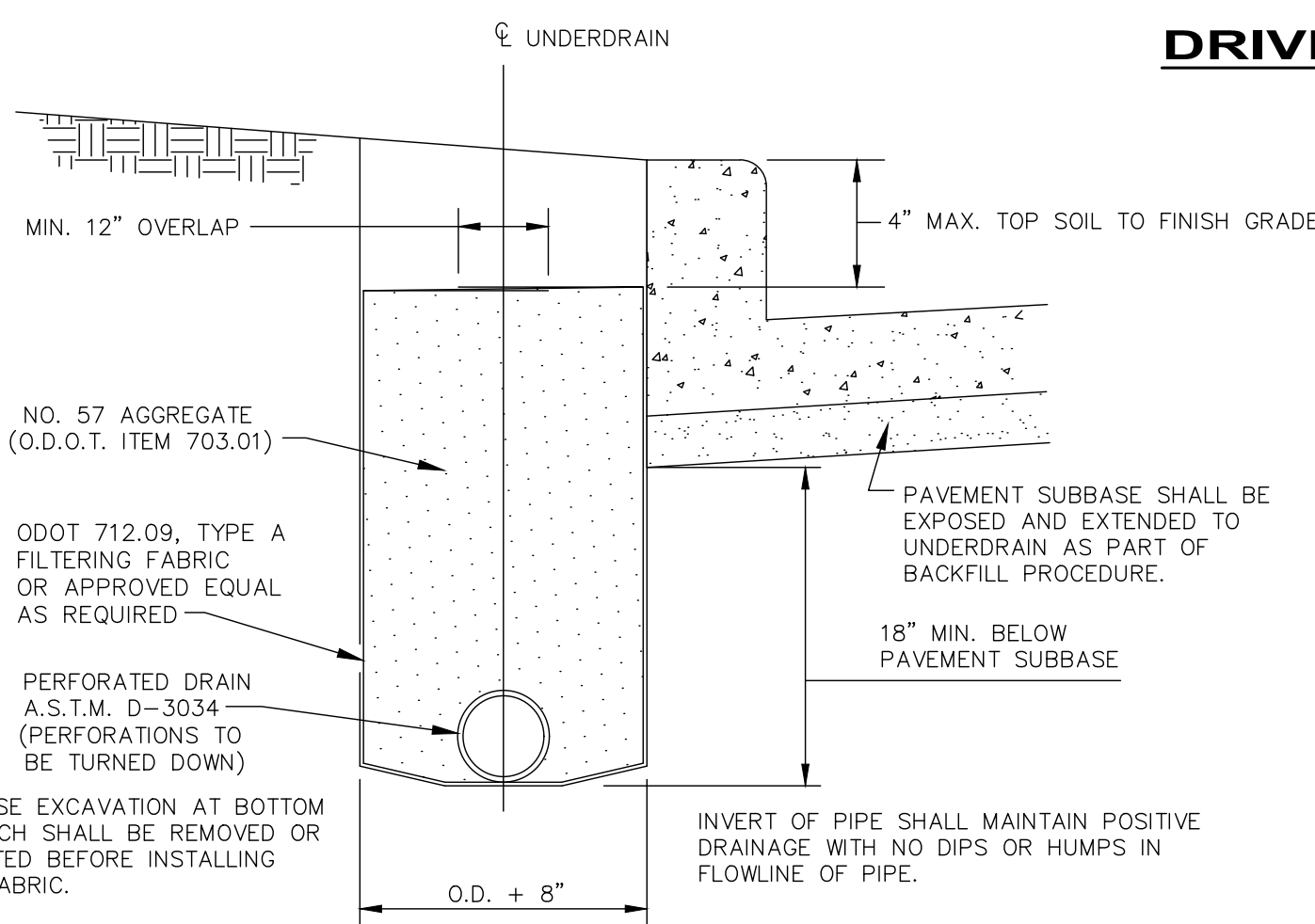
**INLET CASTING ADJUSTMENT
AND GRADING DETAIL**



WORK SHALL INCLUDE RECONSTRUCTION OF MANHOLE/BASIN FOR UP TO 2' FROM PROPOSED RIM ELEVATION OR GUTTER GRADE ELEVATION

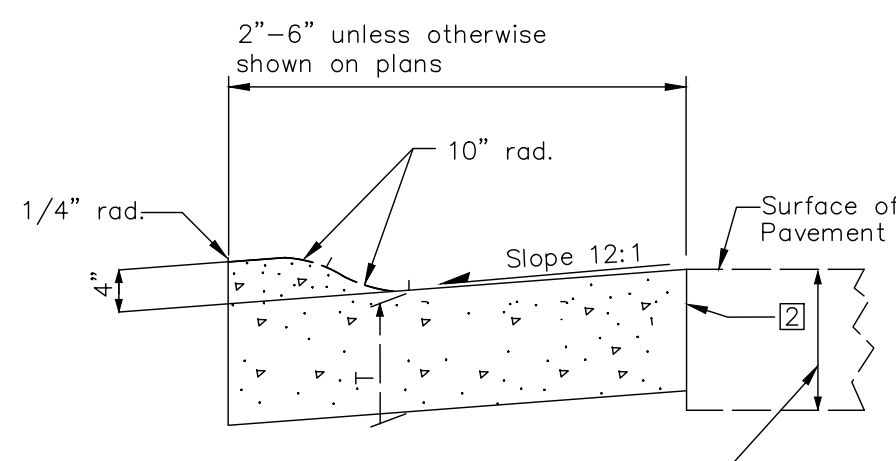
RECONSTRUCTION OF MANHOLE/BASIN BELOW 2' FROM PROPOSED RIM ELEVATION OR GUTTER GRADE ELEVATION SHALL BE PAID FOR UNDER MANHOLE/BASIN RECONSTRUCTED TO GRADE

M.H./I.B. ADJUSTED TO GRADE



UNDERDRAIN DETAIL

NOTE: ITEM SHALL BE USED AS DIRECTED



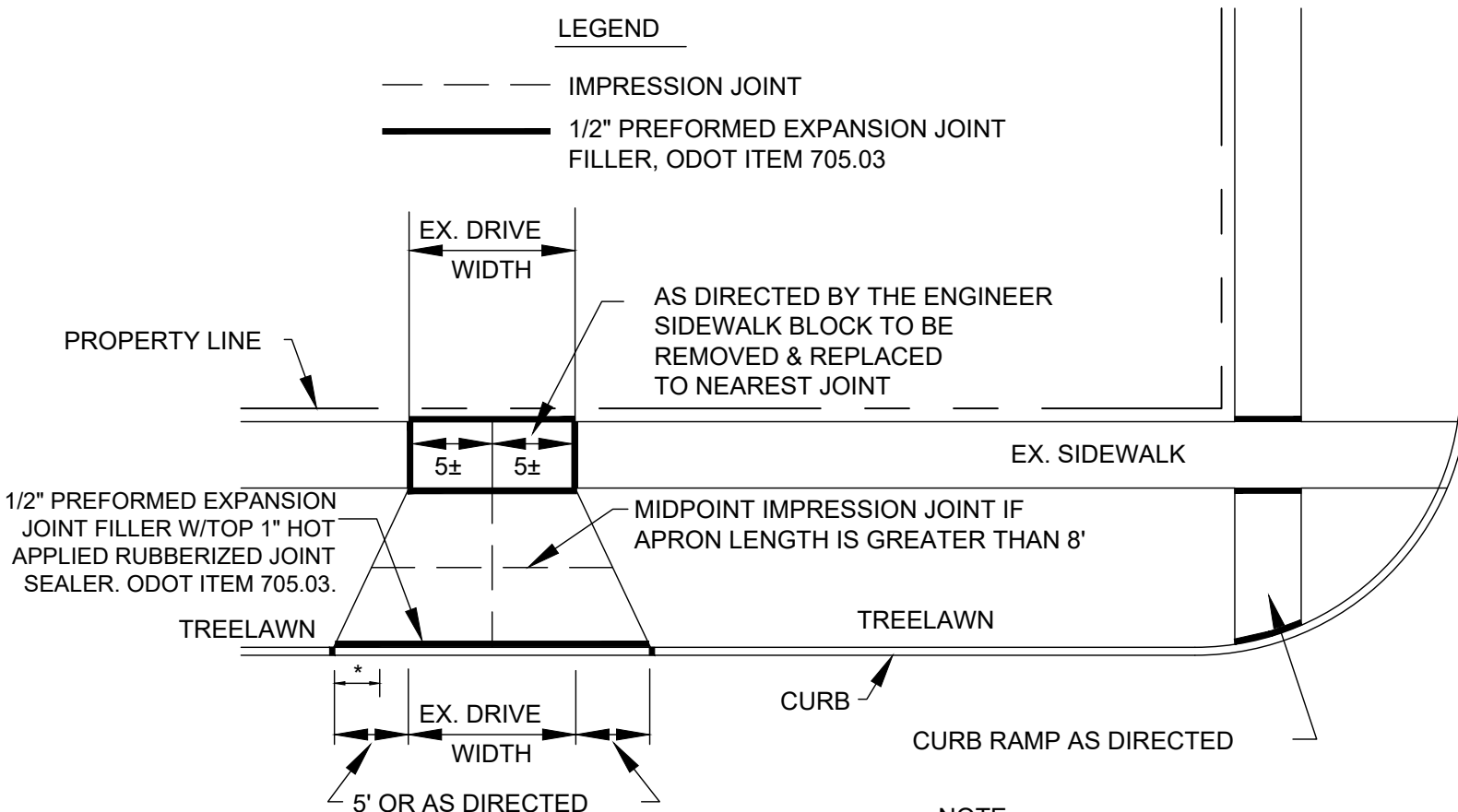
TYPE 3

As Shown on Typical Sections in Plans

COMPACTED ODOT 304 STONE AND GEOTEXTILE FABRIC PER ODOT 712.09, TYPE D. DEPTH OF UNDERCUT AND AREA SHALL BE AS DIRECTED BY THE ENGINEER IN ORDER TO REPLACE UNSTABLE MATERIAL

**ADDITIONAL SUBGRADE
REPLACEMENT DETAIL
(ITEM 204)**

NOTE: ITEM SHALL BE USED AS DIRECTED

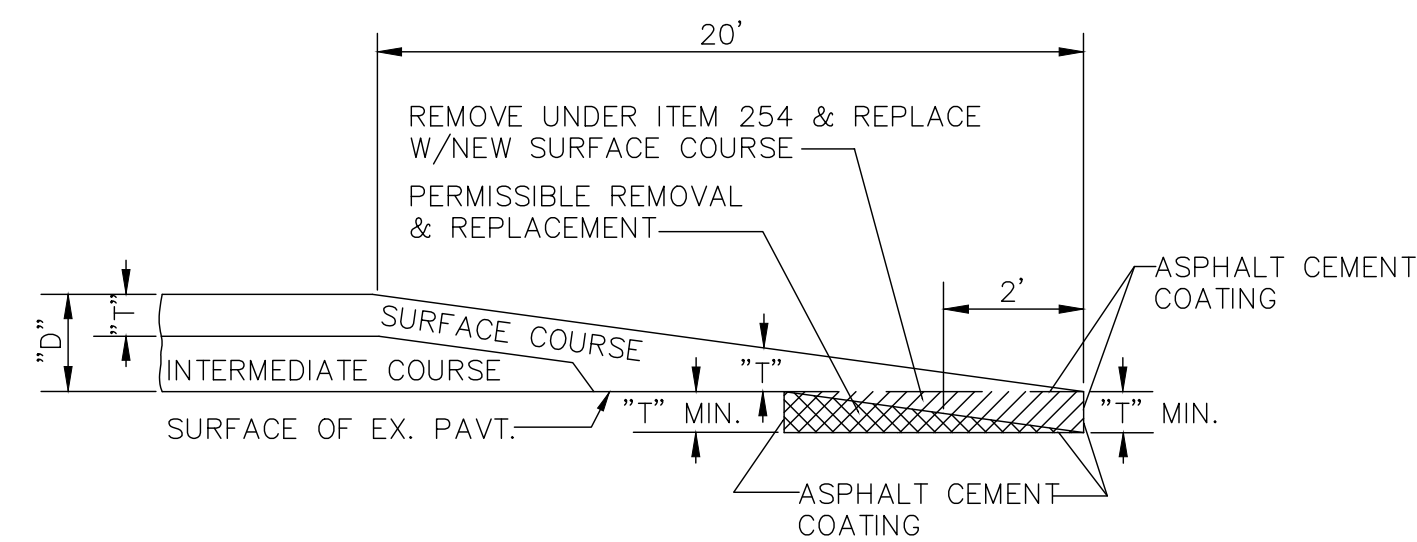


DRIVEWAY APPROACH DETAIL

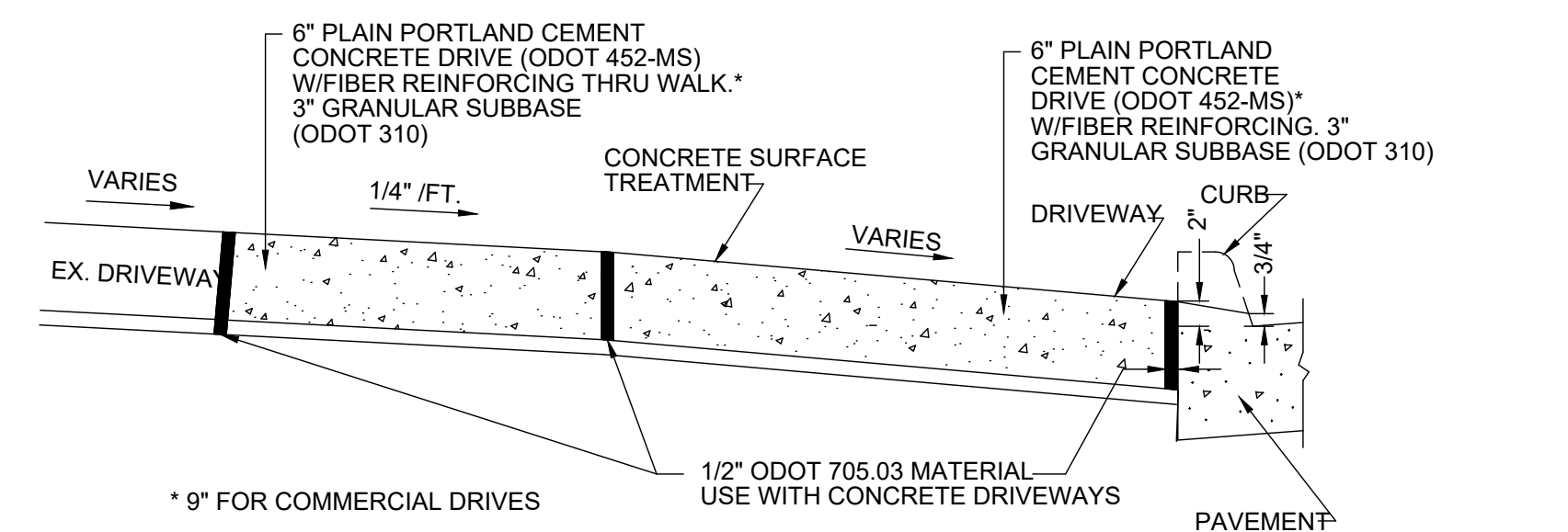
NOT TO SCALE

NOTE: IN NO CASE SHALL THE DRIVE APRON BE SMALLER IN DIMENSION THAN THE EXISTING APRON.

• THE TRANSITION FROM STANDARD VERTICAL CURB SECTION TO DROP CURB SECTION IS TO BE WITHIN 12" OF DRIVEWAY.



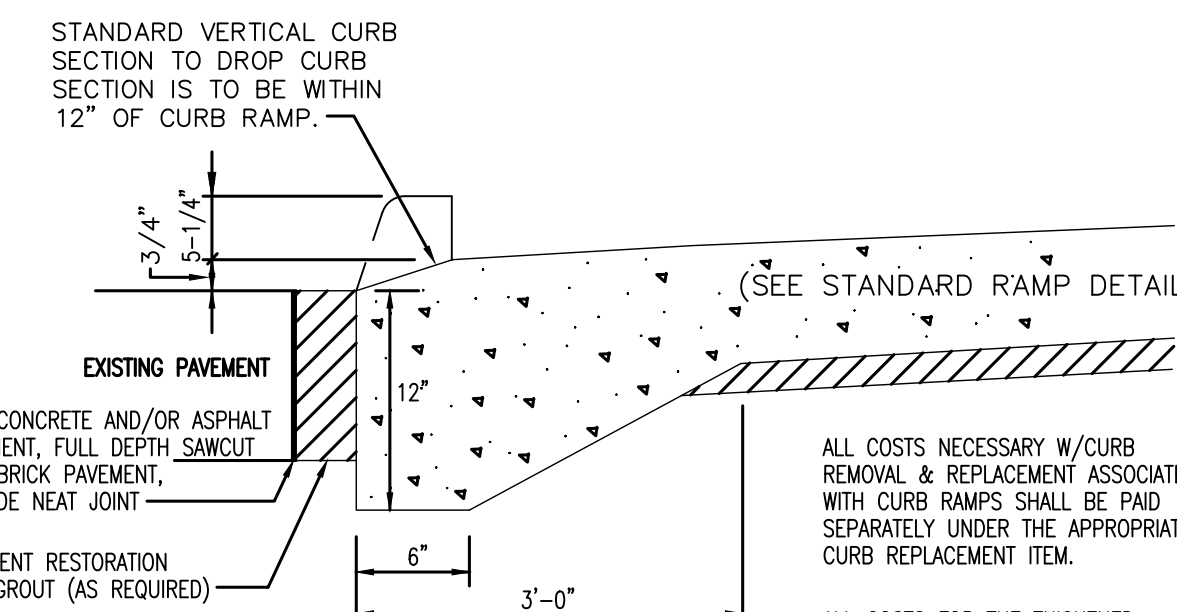
BUTT JOINT DETAIL



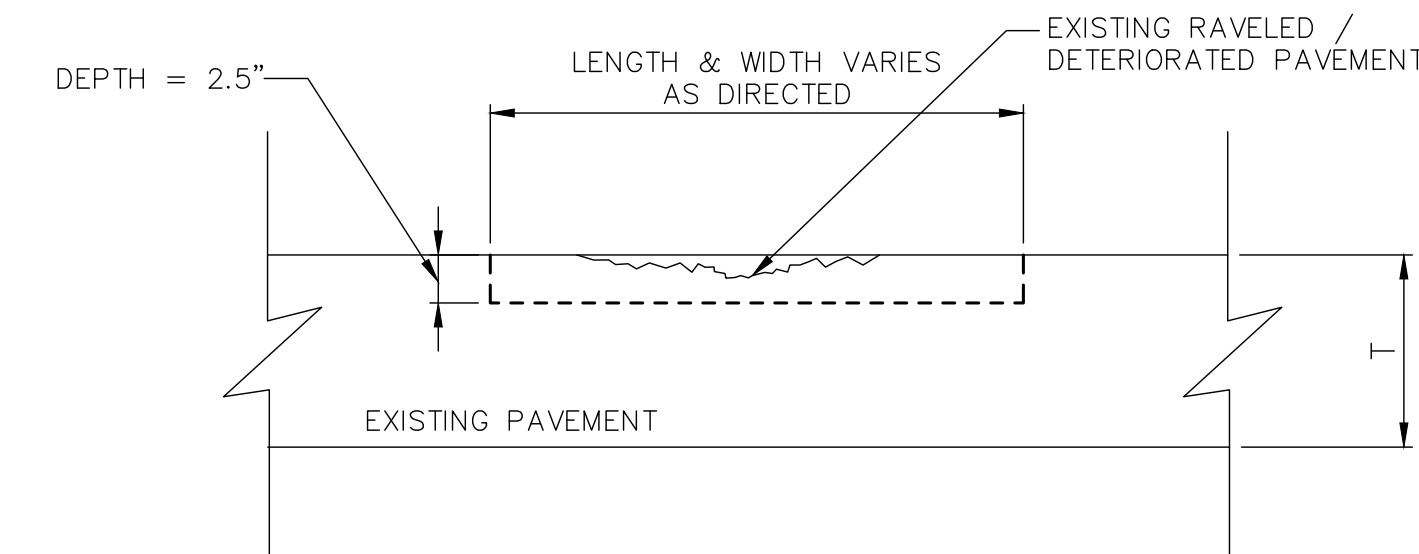
DROP CURB DETAIL AT DRIVEWAY

NOT TO SCALE

NOTE: WIRE MESH REINFORCING SHALL BE FURNISHED & INSTALLED IN-KIND IF FOUND IN THE EXISTING APRON.

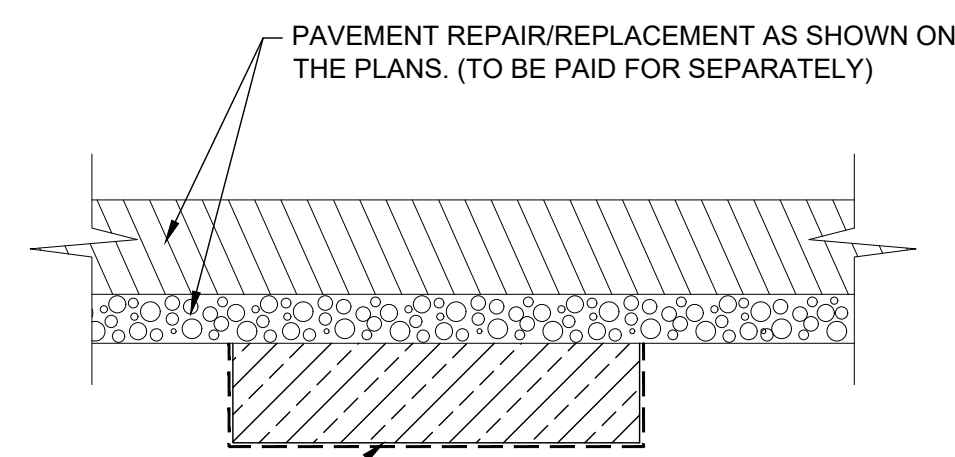


**DROP CURB DETAIL
(CURB RAMP)**



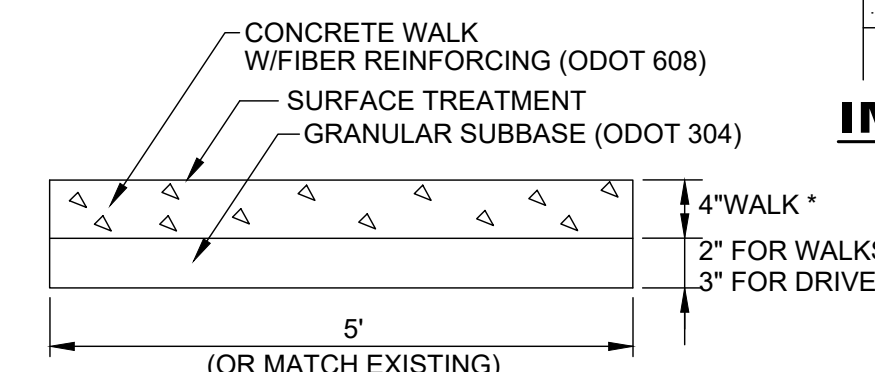
**PARTIAL DEPTH PAVEMENT REPAIR
(ITEM 251)**

NOTE: ALL LOOSE AND DETERIORATED MATERIAL SHALL BE MILLED OUT UNTIL STABLE PAVEMENT IS FOUND. THE RESULTING EDGE SHALL BE REASONABLY VERTICAL AND SQUARE TO THE BOTTOM AND SHALL BE TACK COATED PRIOR TO THE PLACEMENT AND COMPACTION OF ODOT ASPHALT CONCRETE SURFACE COURSE, TYPE I, (448), PG64-22



**IMPRESSION JOINT
FORMED**

ALL DRIVE AND SIDEWALK JOINTS SHALL BE FORMED, NOT SAWCUT. EACH AND EVERY SLAB PERIMETER SHALL BE EDGED TOoled (2") AFTER TEXTURING SURFACE.



CONCRETE WALK DETAIL

DETAILS

CLASS MS CONCRETE WITH FIBER MESH SHALL BE USED ON ALL CONCRETE APRONS AND WALKS FOR THIS PROJECT.

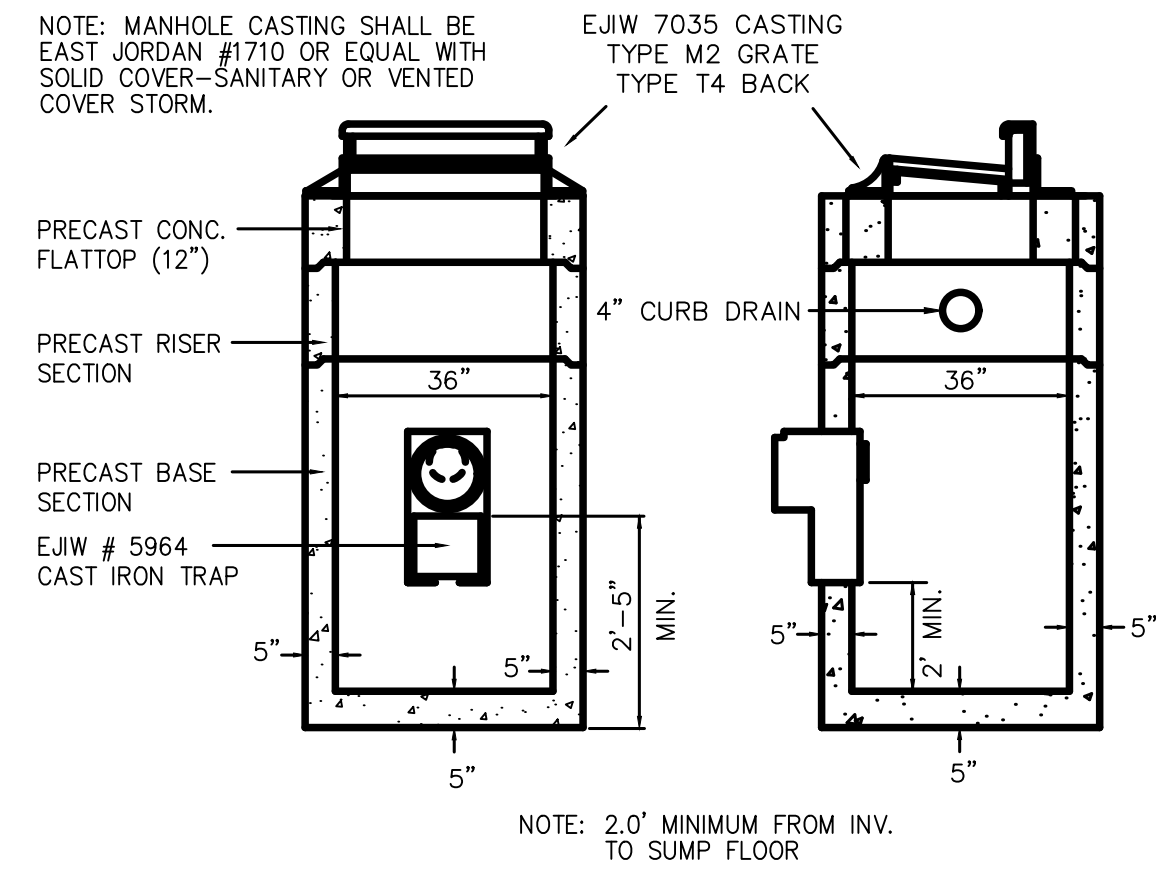


NO	REVISION	DATE

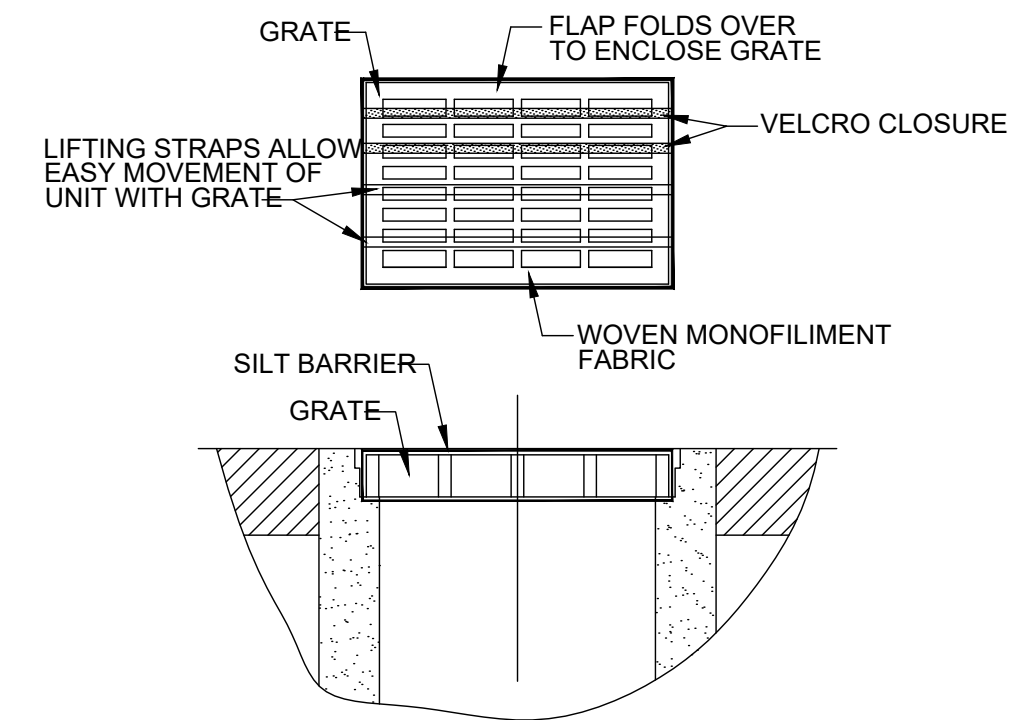
CITY OF RICHMOND HEIGHTS
**2024 PAVEMENT REPAIR PROGRAM
CONTRACTS A & B**
CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	D-1
SHEET	OF
24	26

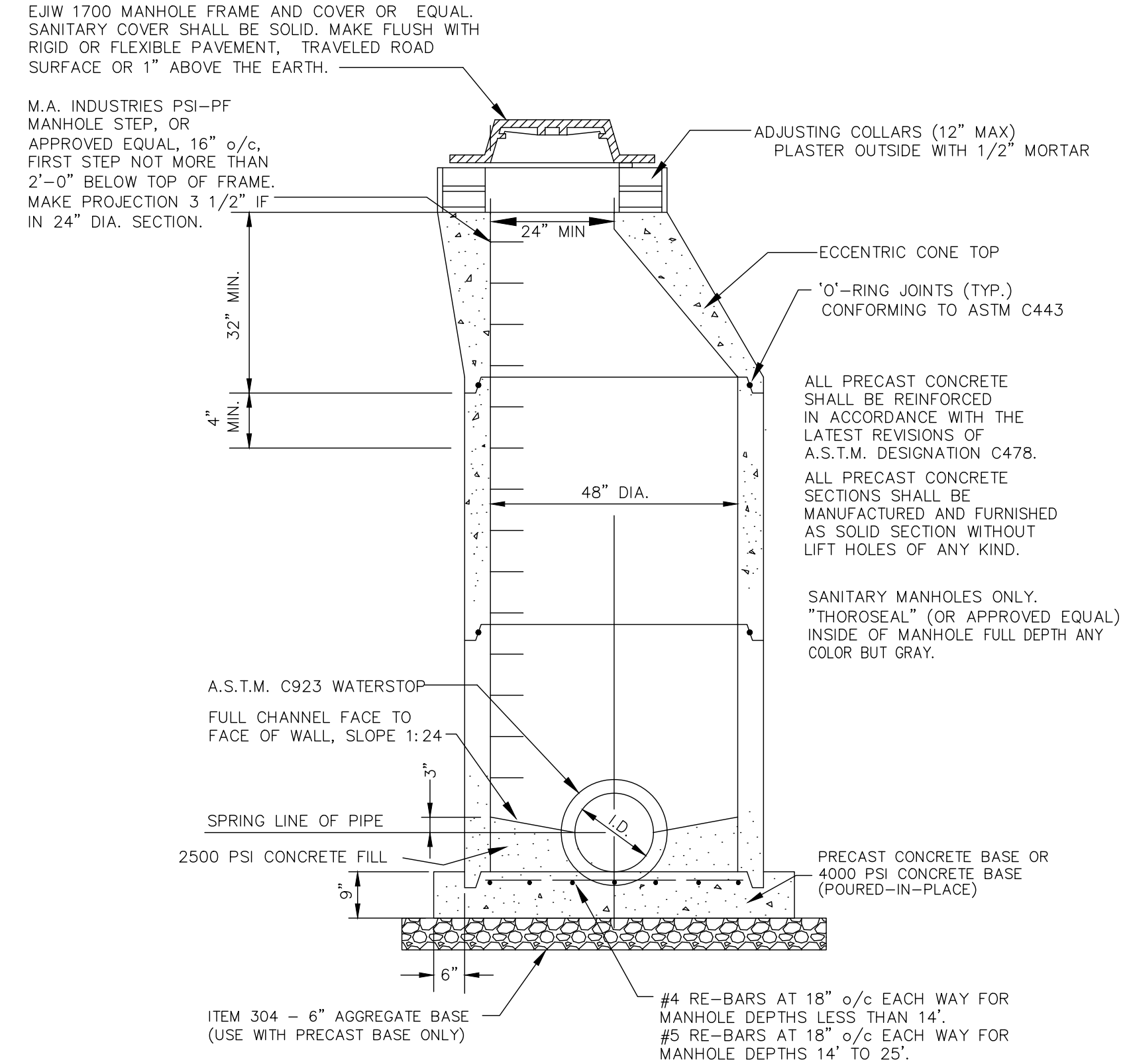


PRECAST CATCH BASIN

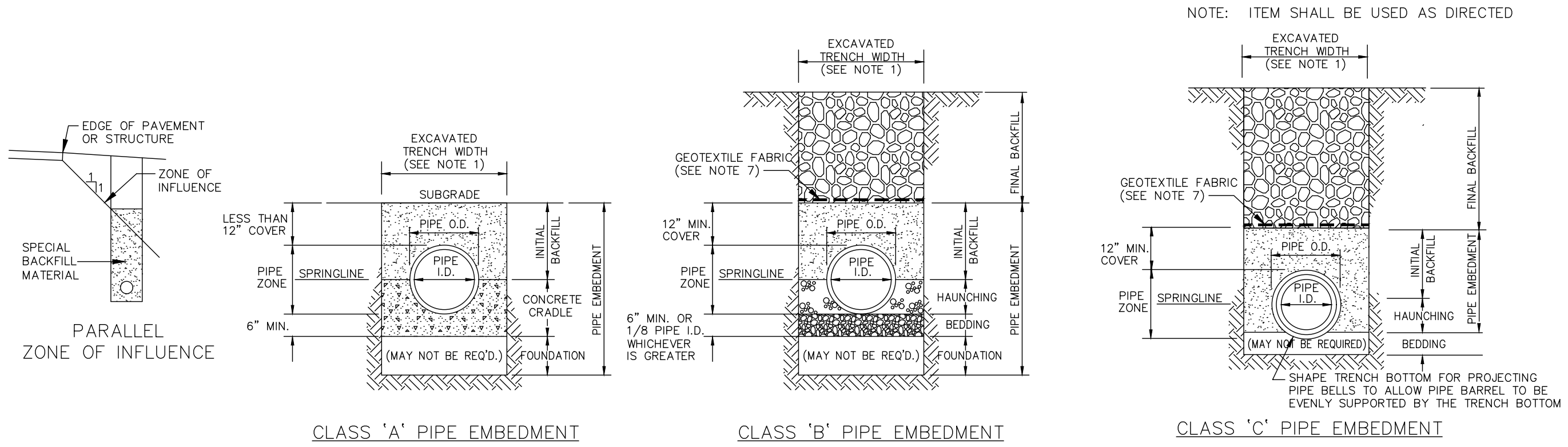


1. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT.
2. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE SILT BARRIER AS NEEDED.
3. TO INSTALL CATCH BASIN INLET SILT BARRIER: THE EMPTY SILT BARRIER SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

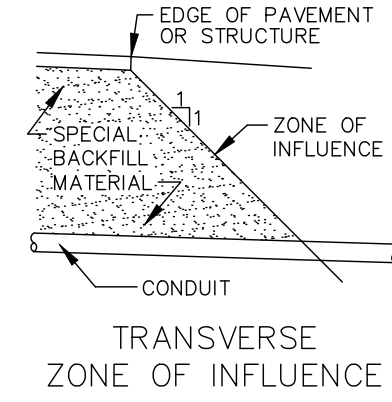
INLET PROTECTION FOR CATCH BASIN IN ROADWAY



STANDARD TYPE "A" ECCENTRIC MANHOLE (24" I.D. AND LESS)

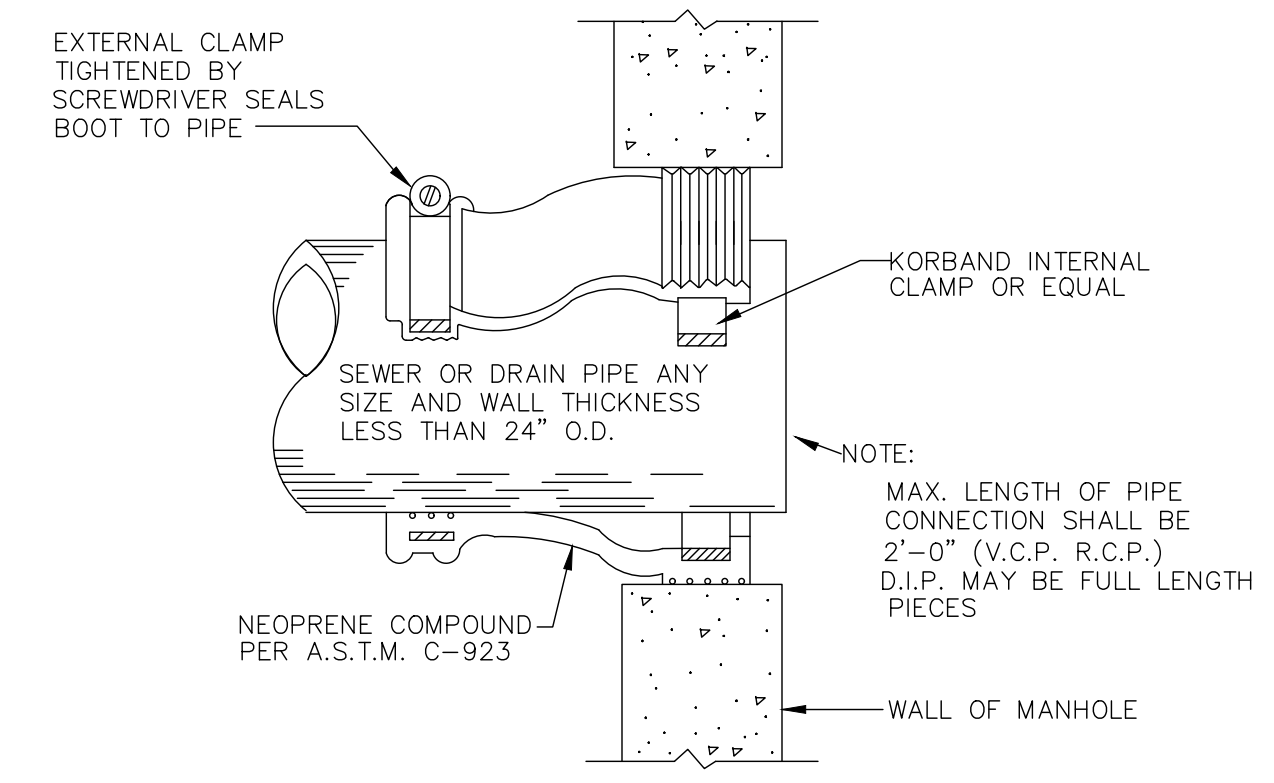


CLASS 'A' PIPE EMBEDMENT CLASS 'B' PIPE EMBEDMENT CLASS 'C' PIPE EMBEDMENT

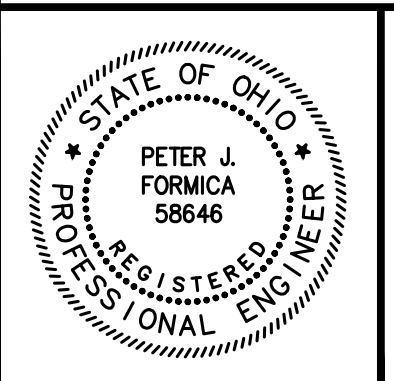


- NOTE: ITEM SHALL BE USED AS DIRECTED
- NOTES:
1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
 2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
 3. PIPE EMBEDMENT: CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
 4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
 5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204CT.
 6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.
 7. GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 8. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

TRENCHING, EMBEDMENT AND BACKFILL DETAIL
6/04 NOT TO SCALE SD-1-1
(FOR SEWER INSTALLATION)



CORE DRILLED PIPE CONNECTION AT MANHOLE FLEXIBLE GASKET DETAIL



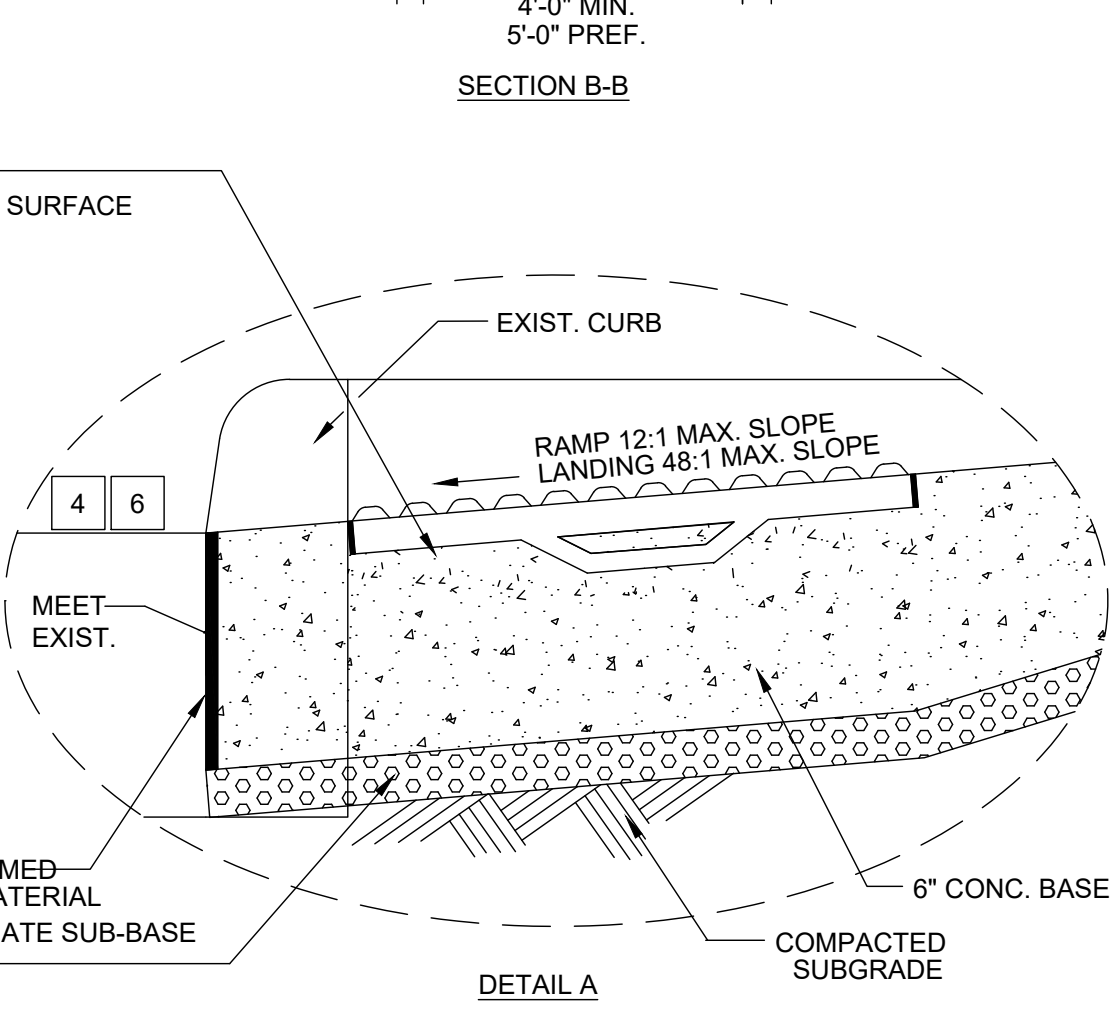
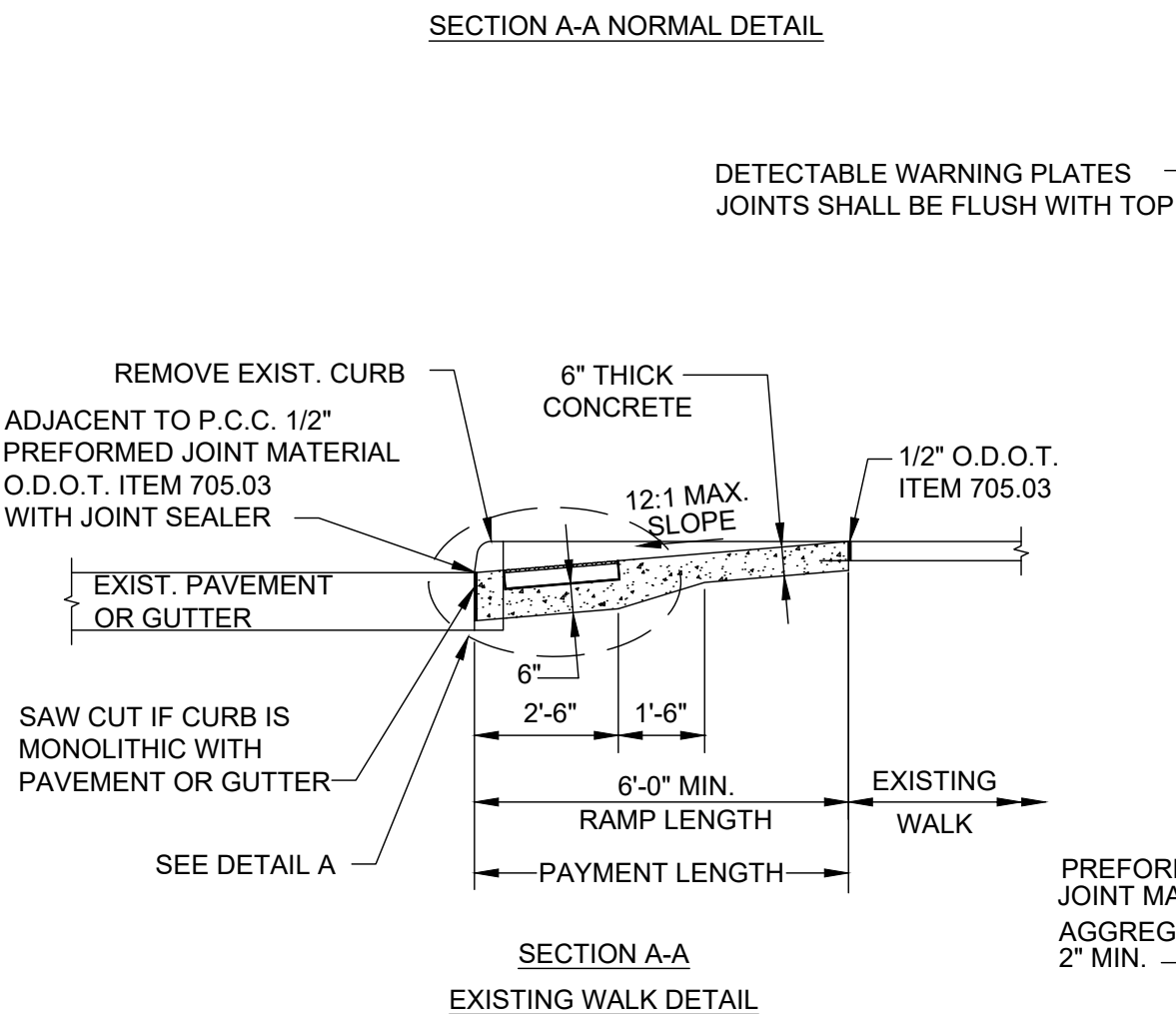
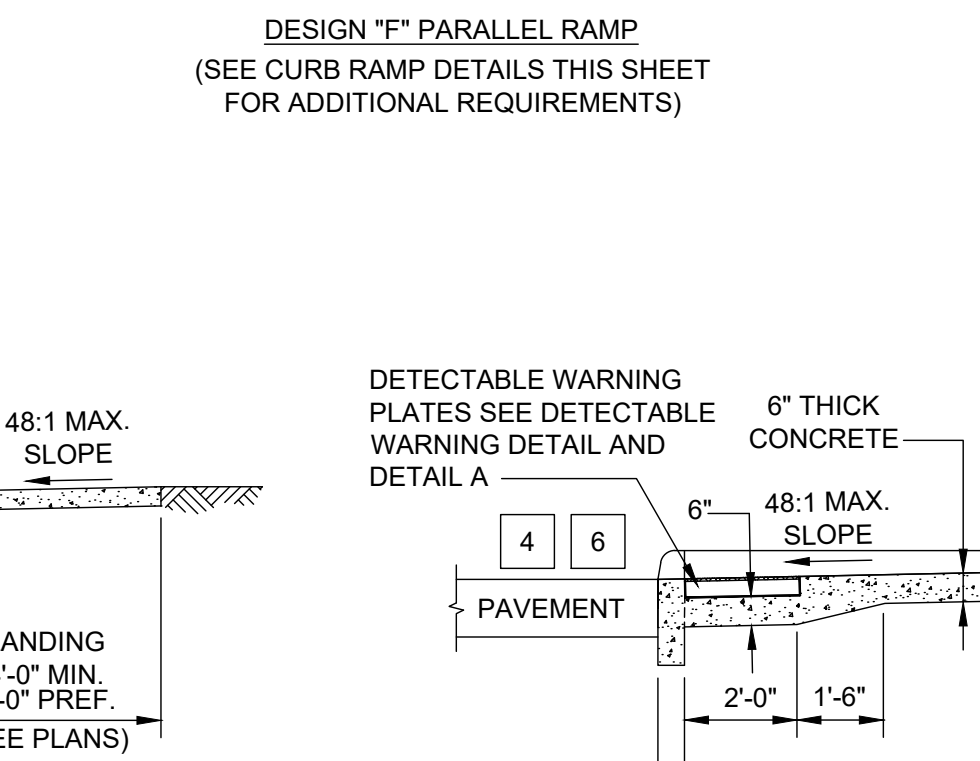
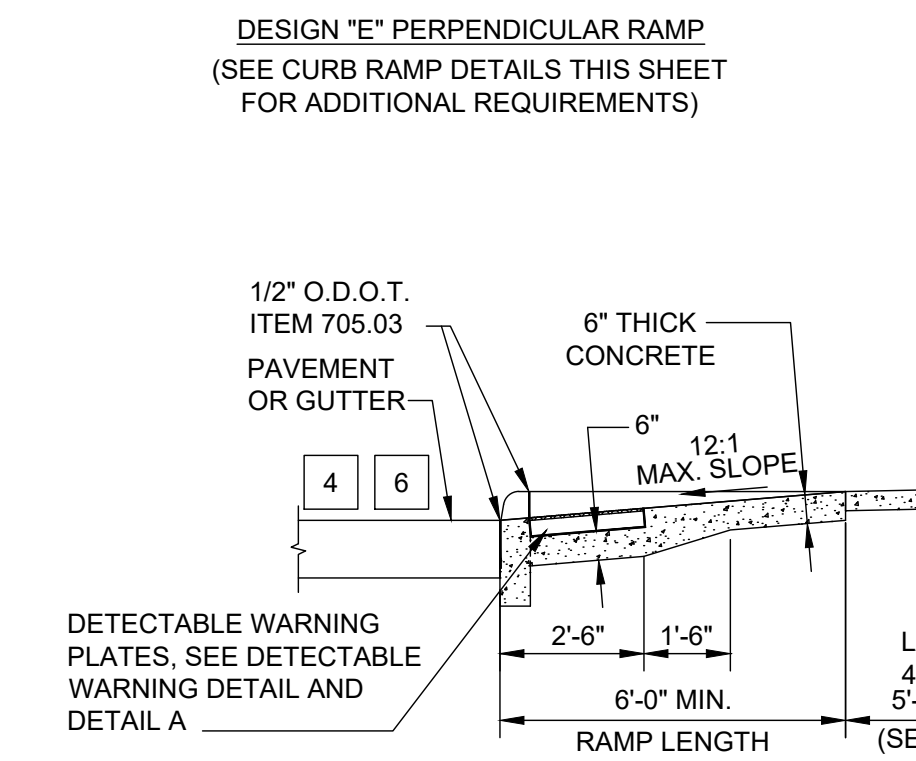
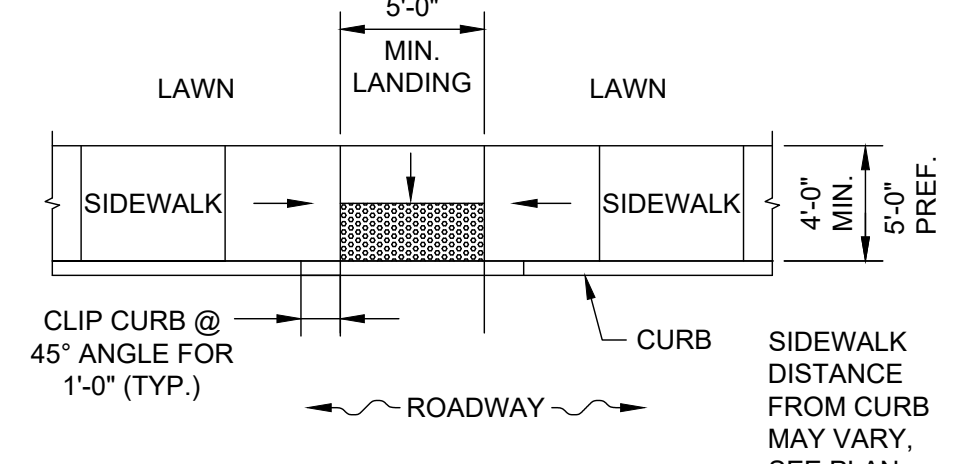
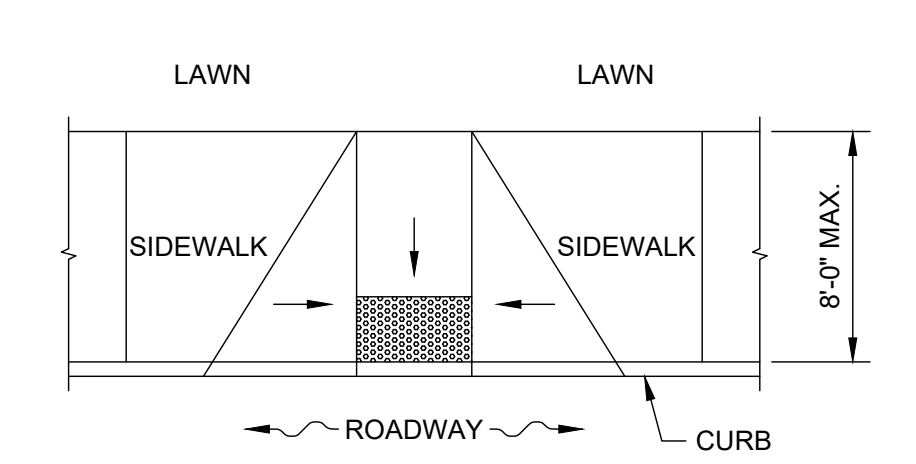
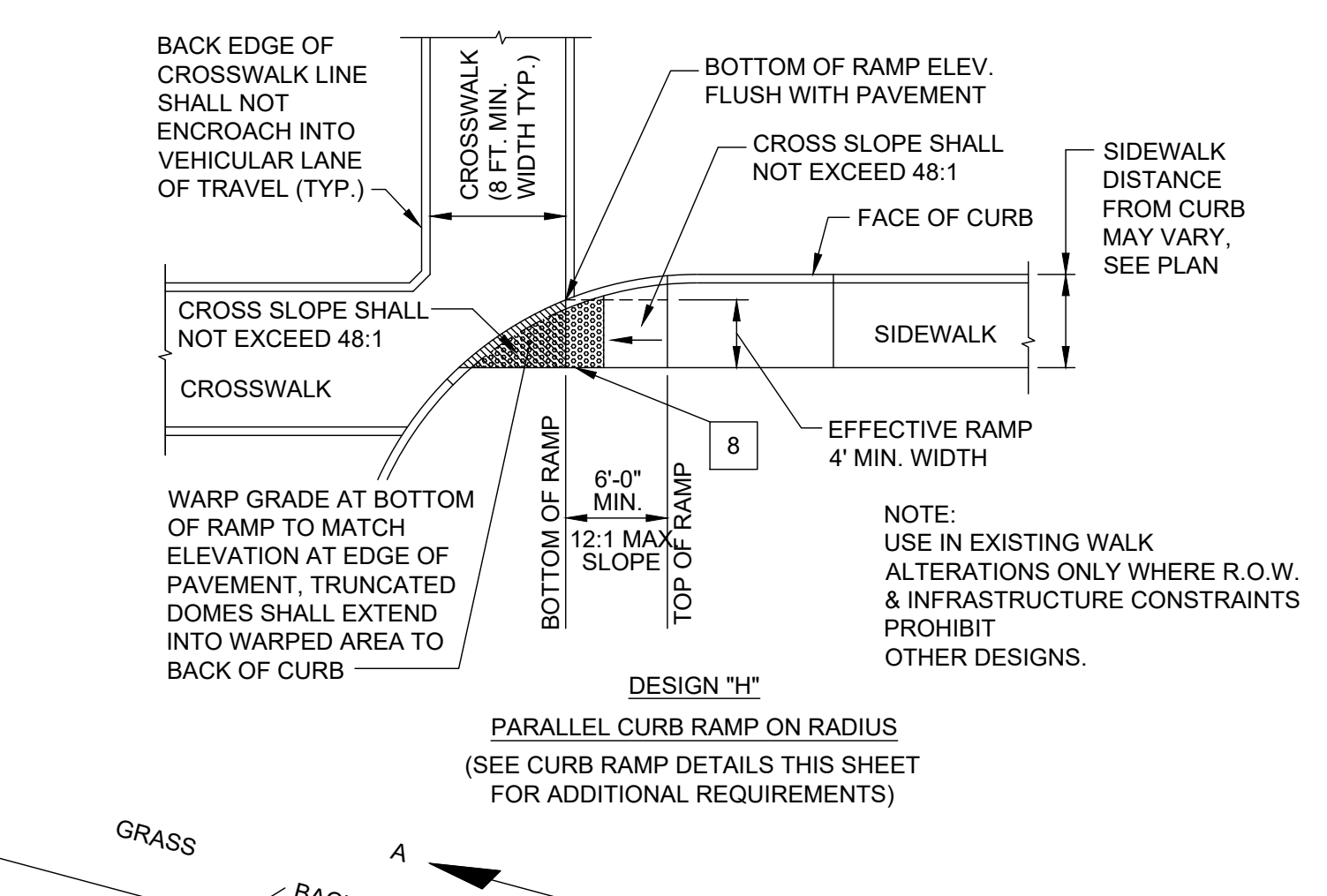
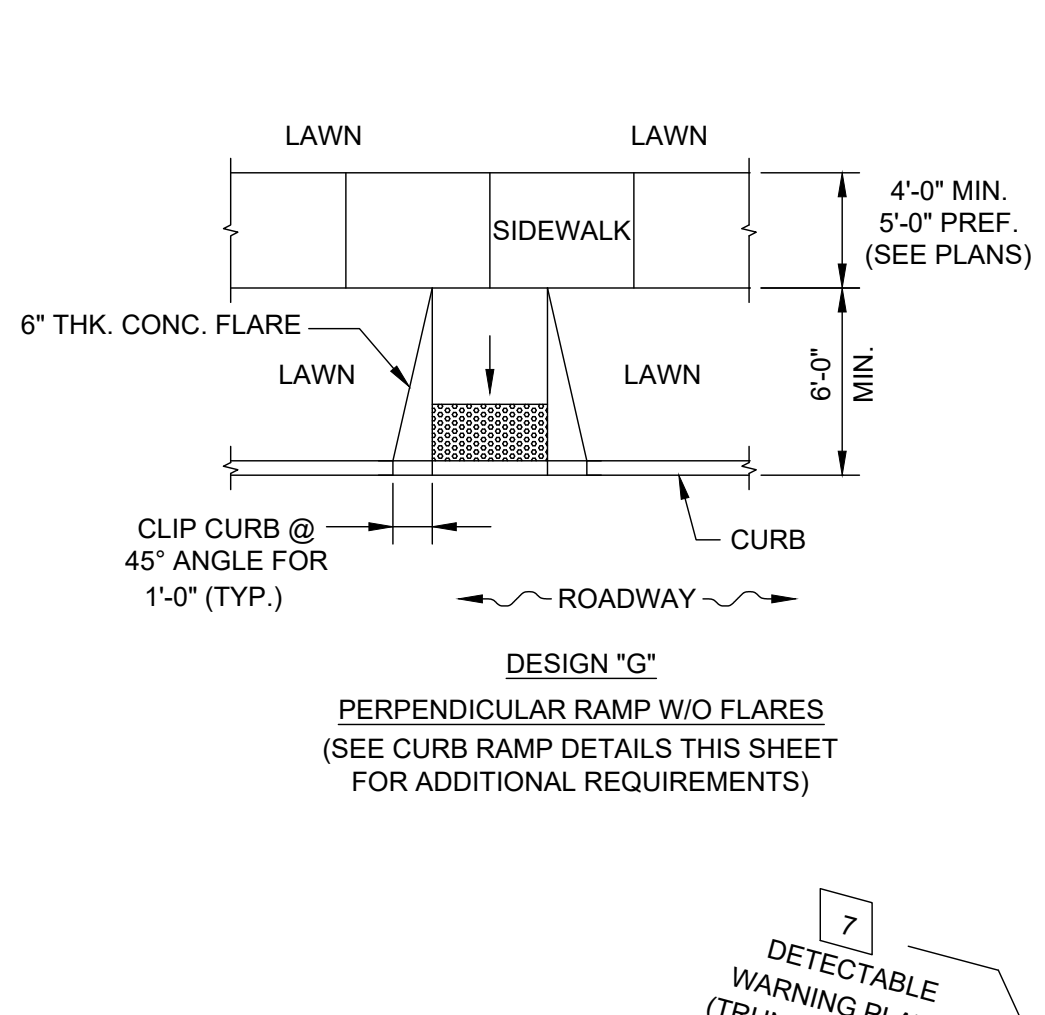
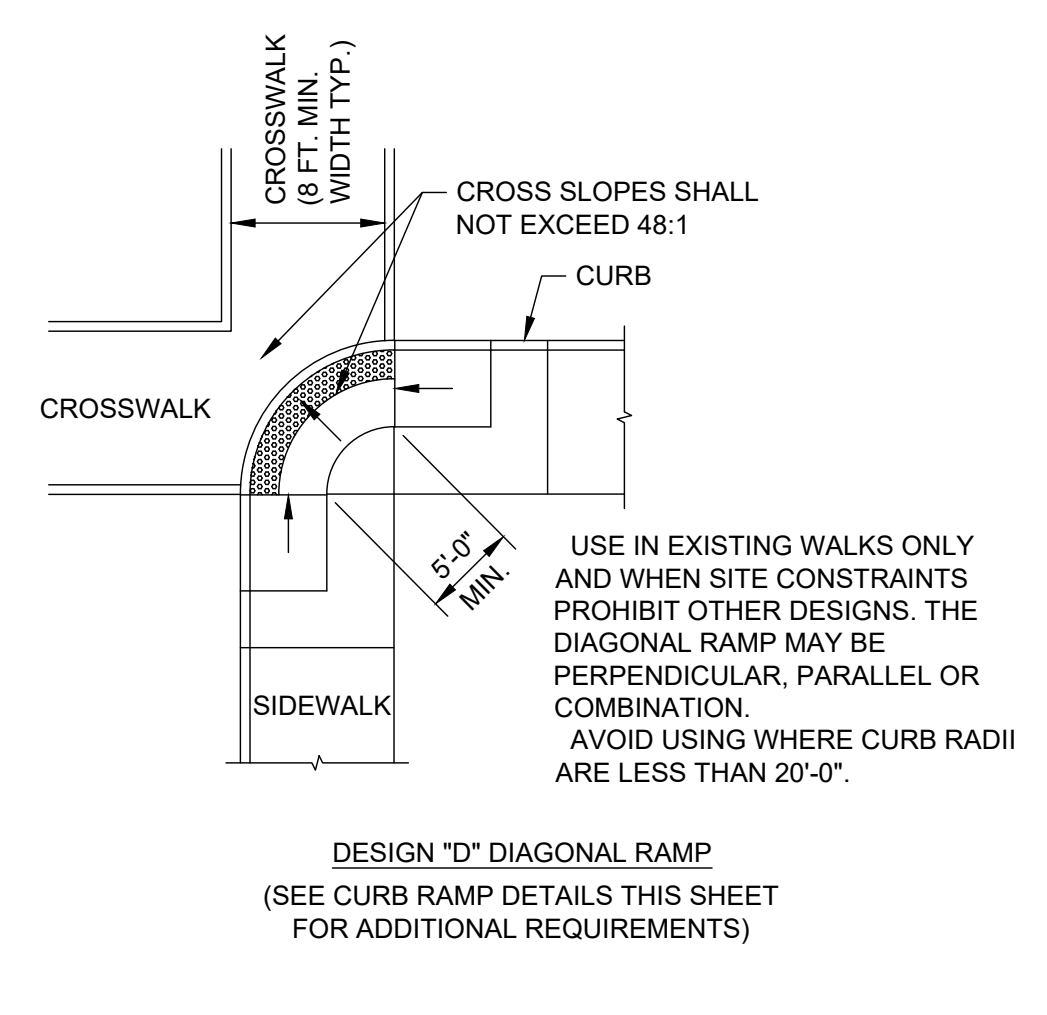
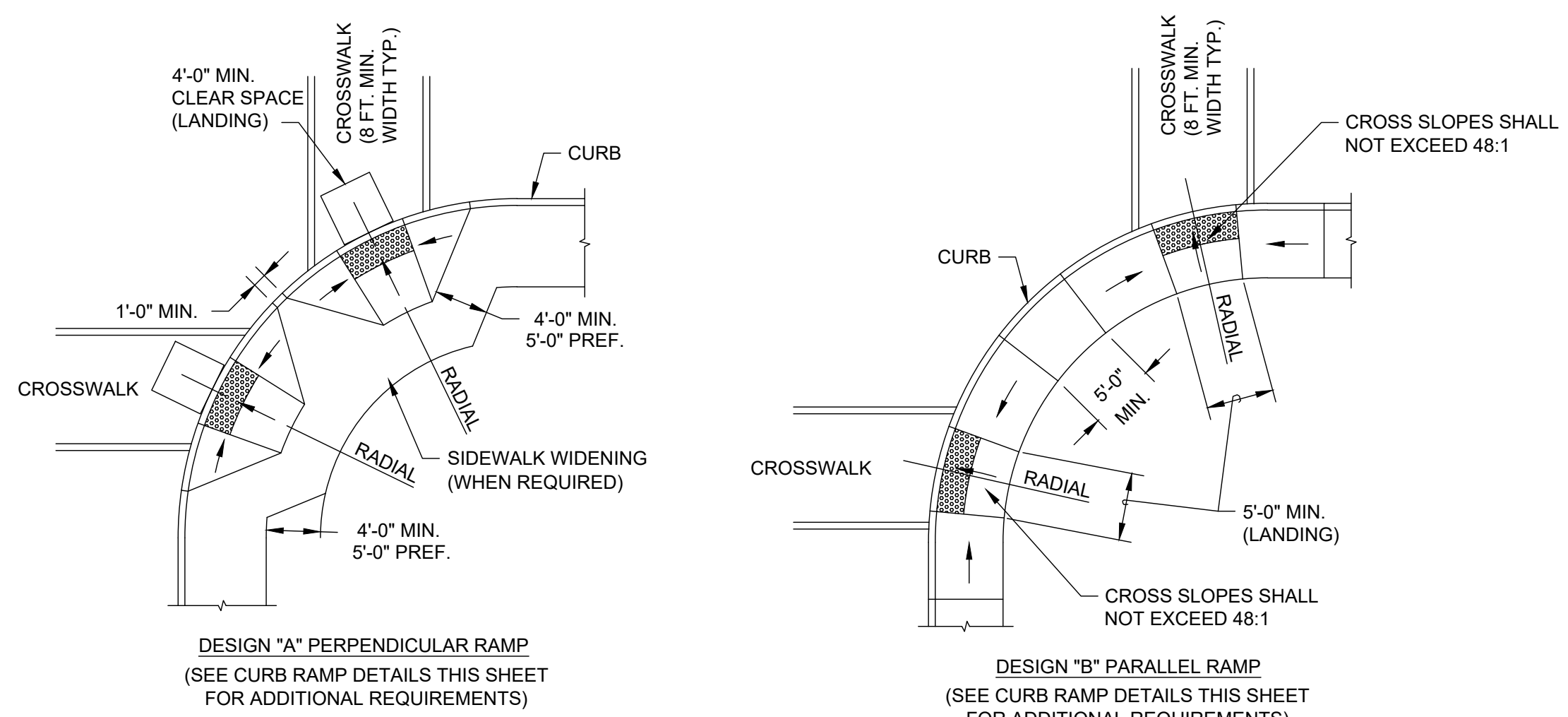
NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM CONTRACTS A & B
CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

DETAILS

PROJECT NO.	
241378	
DISCIPLINE	
CIVIL	
SHEET NAME	
D-2	
SHEET	OF
25	26



DETAIL NOTES

- MAY BE REDUCED TO 3'-4" IN EXISTING SIDEWALKS TO BETTER FIT THE WALK CONFIGURATION OR WHERE SITE CONDITIONS ARE RESTRICTED BY NARROW WALKS, POLE FOUNDATIONS, DRAINAGE INLETS, ETC. THE WIDTH MAY BE TAPERED.
- IF FLARED SIDES ARE USED IN AREAS OF CROSS TRAVEL, THE MINIMUM SLOPE SHALL BE 10:1 WITH A LANDING AND 12:1 WITHOUT A DEFINED LANDING.
- THE SLOPE OF THE RAMP TOWARD THE CURB IS REQUIRED TO BE 12:1 [0.0833] OR LESS, RELATIVE TO THE HORIZONTAL, UNLESS APPROVED IN WRITING BY THE ENGINEER/ARCHITECT.

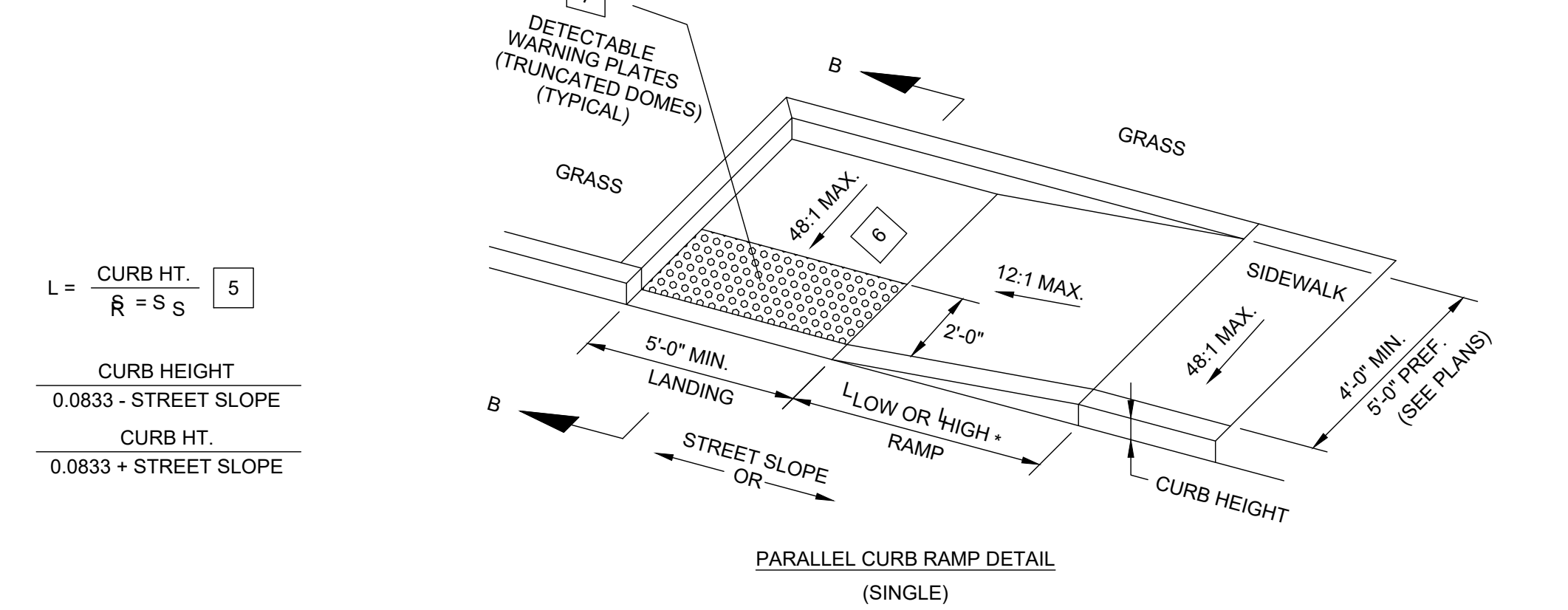
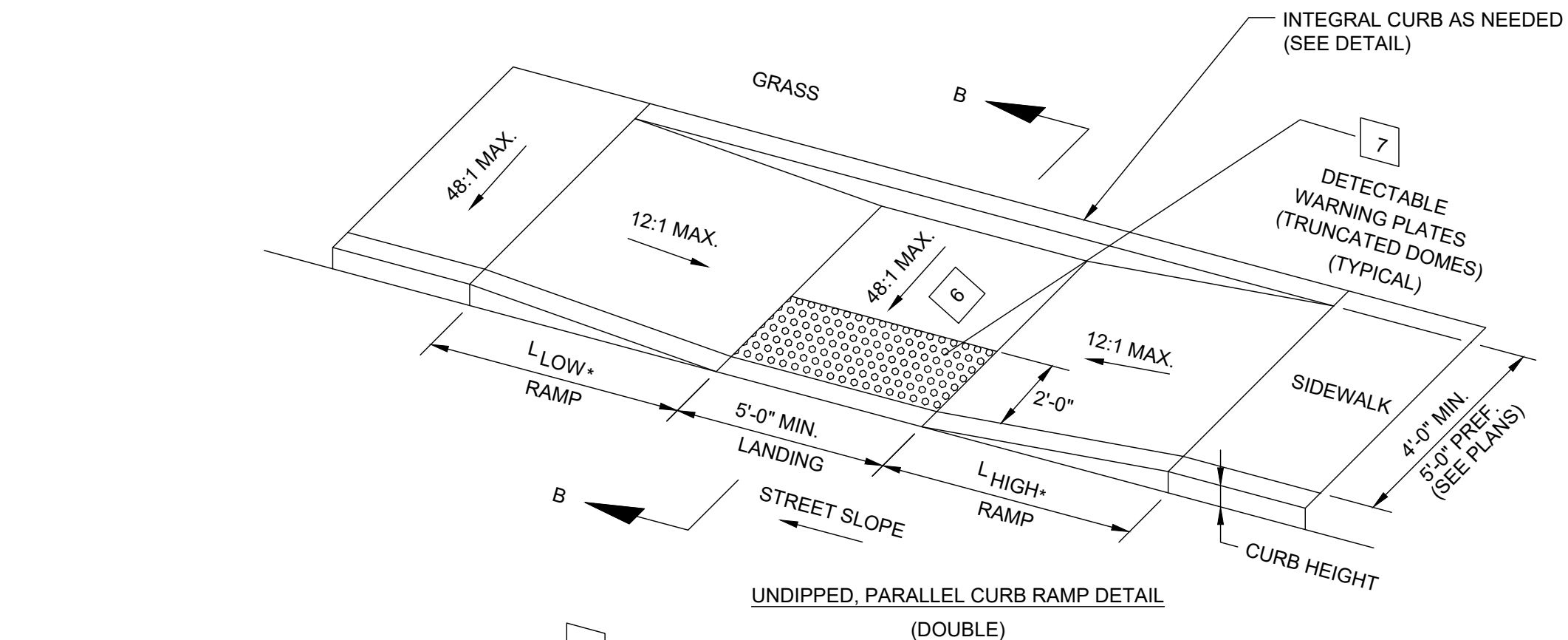
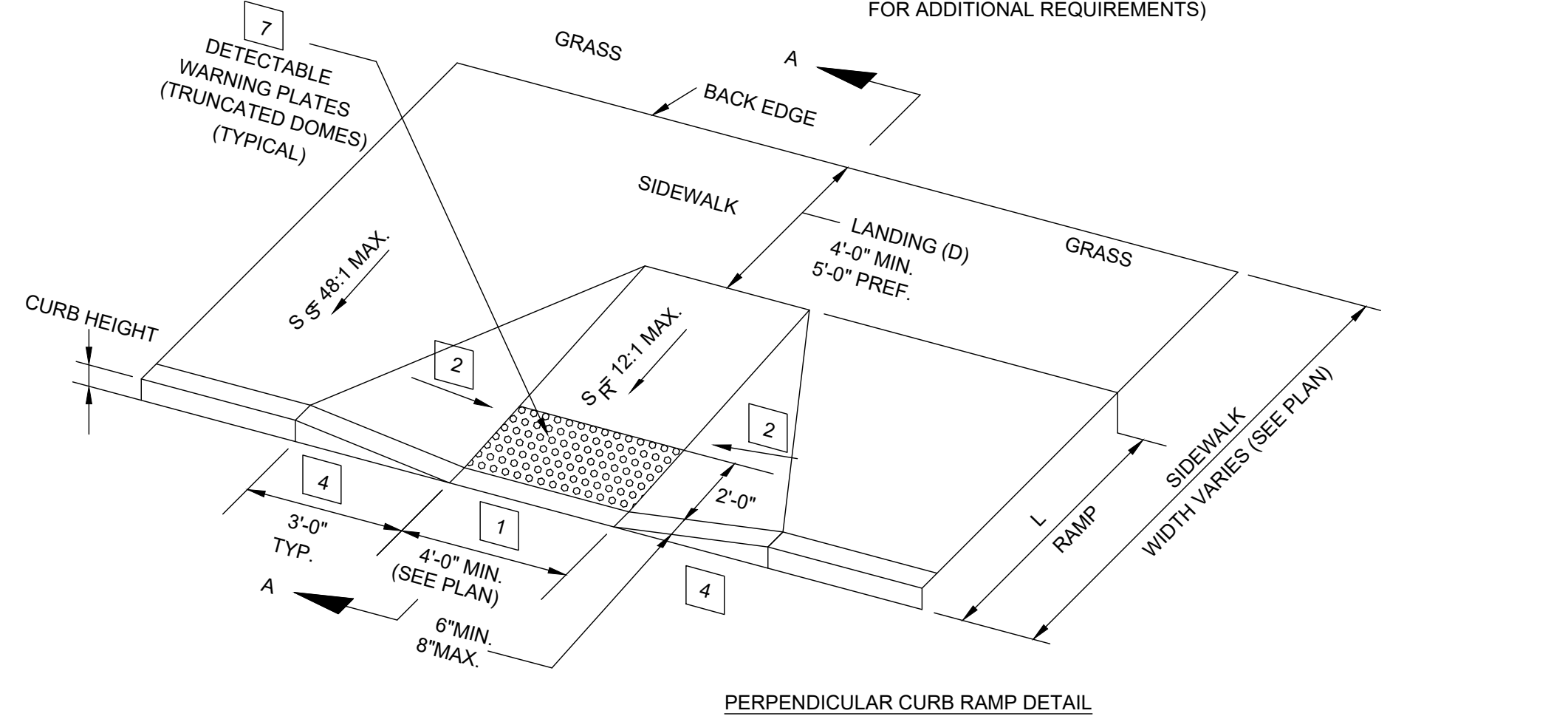
THE MINIMUM LENGTH OF A PERPENDICULAR RAMP IS 6' FROM THE BACK OF A 6" CURB AND MAY BE INCREASED WHERE FEASIBLE TO OBTAIN A FLATTER RAMP SLOPE OR TO BETTER BLEND WITH THE WALK CONFIGURATION
- THE GRADE BREAK BETWEEN THE COUNTER SLOPES OF GUTTER AND/OR ROAD SURFACES, WITHIN 24 INCHES OF THE CURB RAMP AND THE RUNNING GRADE OF THE CURB RAMP, SHALL NOT EXCEED THE ALGEBRAIC DIFFERENCE OF 11 PERCENT. IF TWO OR MORE PLANE CHANGES ARE PRESENT, THEY SHALL BE SEPARATED BY 24 INCHES.
- DIMENSIONS DERIVED FROM EQUATIONS ARE NOMINAL. CONSTRUCT RAMPS TO MEET REQUIRED SLOPES AND EXISTING CONDITIONS.
- GRADES FOR LANDING SHALL PROMOTE POSITIVE DRAINAGE, WITHIN MAXIMUM ALLOWABLE SLOPE. NO PONDING OF WATER WILL BE ACCEPTABLE.
- DETECTABLE WARNING PLATES SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED ON A SQUARE GRID, IN THE PREDOMINANT DIRECTION OF TRAVEL, EXTENDING A DISTANCE OF 24" FROM THE BACK OF CURB AND SPANNING THE ENTIRE WIDTH OF THE RAMP OPENING.

TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9", A TOP DIAMETER OF 0.56", A HEIGHT OF 0.2" AND CENTER TO CENTER SPACING OF 2.35".

PLATES SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM PAVEMENT TO PAVEMENT AND PAVEMENT TO CONCRETE SURFACE. THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. PLATES SHALL BE BOLTED TOGETHER IN REQUIRED LENGTH. FACE OF ALL PLATES SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID DAMAGE DURING CONSTRUCTION.

DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- WHERE PLATES ABUT LAWN, INSTALL RIGID PVC OR GALVANIZED STEEL EDGE RESTRAINT WITH MINIMUM 1 3/4" VERTICAL FACE, 1 1/4" TOE, AND 3 1/4" HEAL USING 10" X 3/8" LONG SPIKES AT 12" C-C.

DETECTABLE WARNING PLATES SHALL BE ADVANTAGE TACTILE SYSTEMS STAINLESS STEEL COATED 2'X4' PLATE AT PERPENDICULAR CURB RAMPS AND CURB RAMPS ON THE RADIUS. 20" RADIUS PLATES SHALL BE INSTALLED AT DIAGONAL CURB RAMP. ALL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



SURFACE TEXTURE: TEXTURE SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES AND SHALL BE ROUGHER THAN ADJACENT WALK. (DOES NOT APPLY TO TRUNCATED DOMES)

JOINTS: JOINTS SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS. A 1/2" O.D.O.T. ITEM 705.03 PREFORMED JOINT MATERIAL SHALL BE PROVIDED AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALK. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGE AND SLOPE CHANGES AND ARE NOT NECESSARILY JOINT LINES.

SEE NOTE 3

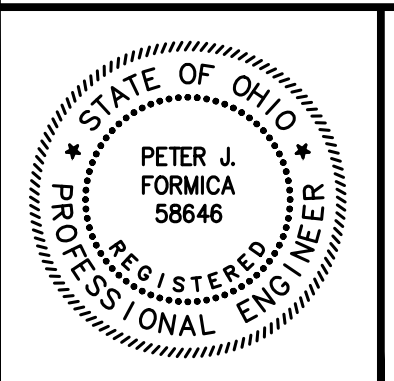
STREET SLOPE	RAMP LENGTH @ 1 INCH PER FOOT [0.0833]	
	L LOW SIDE*	L HIGH SIDE*
0.01	5'-5"	6'-10"
0.02	4'-10"	7'-11"
0.03	4'-5"	9'-5"
0.04	4'-1"	11'-8"
0.05	3'-9"	15'-2"

5

$$L = \frac{\text{CURB HT.}}{R} = S \cdot S$$

L HIGH = CURB HEIGHT / 0.0833 - STREET SLOPE

L LOW = CURB HEIGHT / 0.0833 + STREET SLOPE



NO	REVISION	DATE

CITY OF RICHMOND HEIGHTS
2024 PAVEMENT REPAIR PROGRAM
CONTRACTS A & B
CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MARCH 2024
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	PJF
CHECKED BY:	PJF

DETAILS	
PROJECT NO.	241378
DISCIPLINE	CIVIL
SHEET NAME	D-3
SHEET	26
OF	26