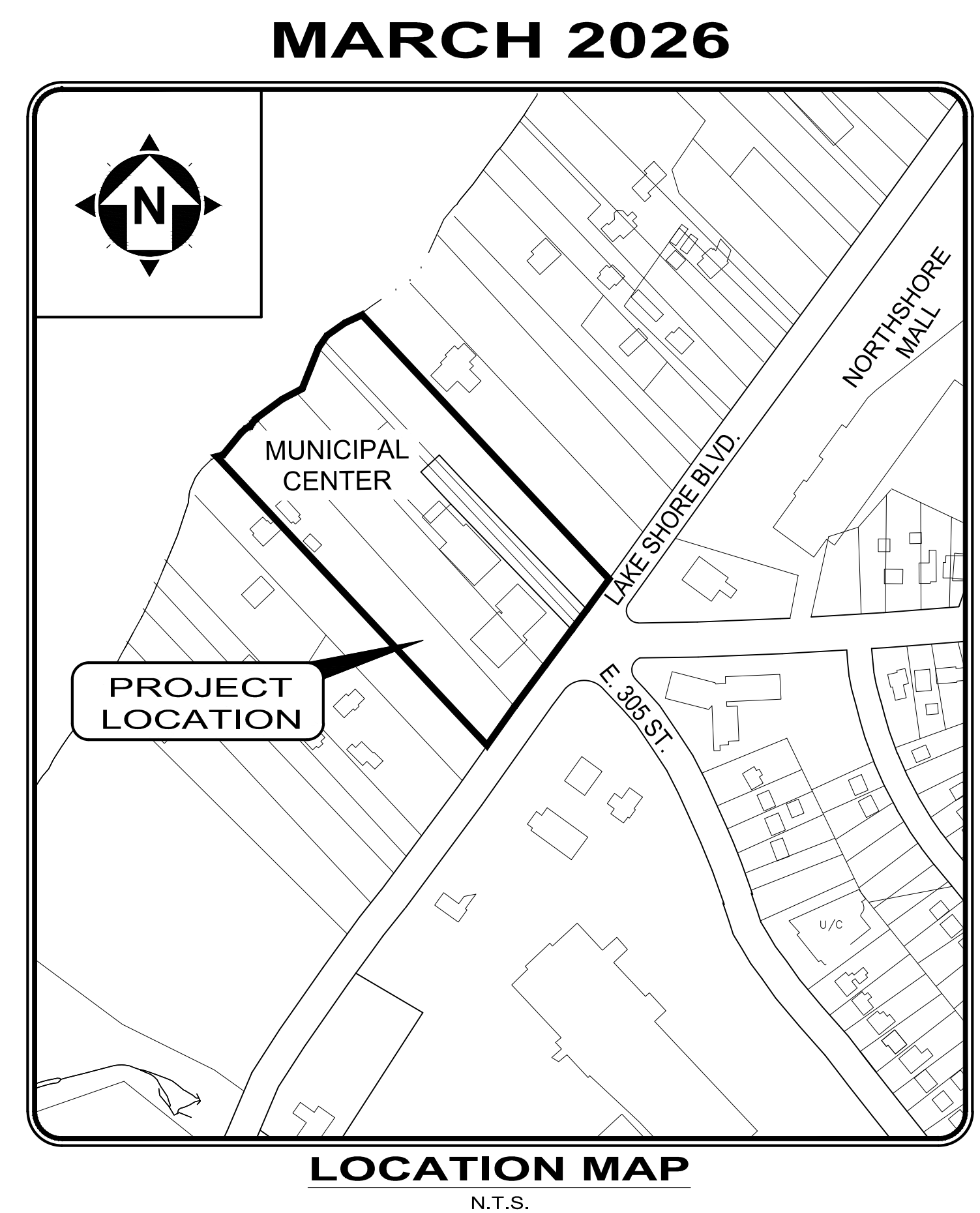
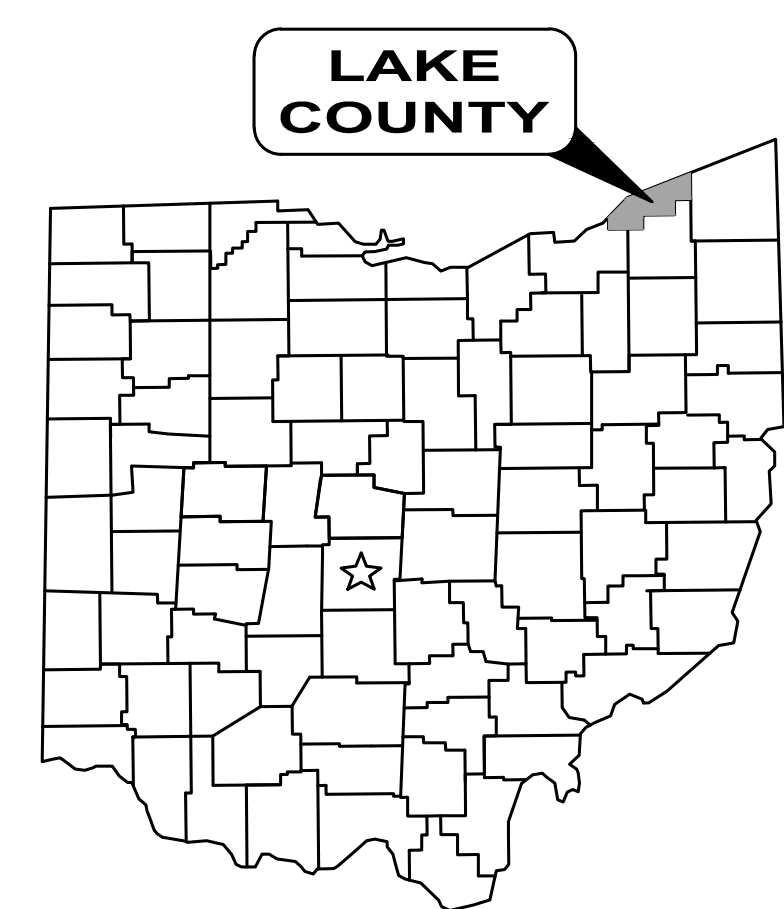


# THE CITY OF WILLOWICK

## WILLOWICK MUNICIPAL CENTER

### PARKING LOT IMPROVEMENTS

#### LAKE COUNTY, OHIO



**CITY COUNCIL:**

- MS. MONICA KOUDELA, COUNCIL PRESIDENT
- MR. PATRICK MOHORCIC, COUNCIL MEMBER
- MR. DEVON MCFARLAND, COUNCIL MEMBER
- MS. NATALIE ANTOSH, COUNCIL MEMBER
- MS. THERESA BISBEE, COUNCIL MEMBER
- MR. CHARLIE MALTA, COUNCIL MEMBER
- MR. DAVID PHARES, COUNCIL MEMBER



**OHIO 811 DESIGN SERIAL NUMBERS & UTILITY MEMBER LIST:**  
B508600788, REV 00B

1. THE ILLUMINATING COMPANY
  2. ENBRIDGE GAS OHIO
  3. LAKE COUNTY DEPARTMENT OF UTILITIES
  4. AT&T OHIO
  5. THE CITY OF WILLOWICK
1. 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.
  2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

**OWNER:**

THE CITY OF WILLOWICK  
30435 LAKESHORE BOULEVARD  
WILLOWICK, OH 44095  
(440) 585-3700 PHONE

**PROJECT SITE:**

BASE BID: OPEN SPACE LOCATED IMMEDIATELY WEST OF THE MUNICIPAL CENTER FOR THE PARKING LOT EXPANSION. ALT #1 INCLUDES RESURFACING, ADA ACCESSIBILITY AND RAMP IMPROVEMENTS, AND PAVEMENT REPAIRS, AND RE-STRIPING OF THE EXISTING MUNICIPAL CENTER PARKING LOT

**CITY OFFICIALS:**

- MR. MICHAEL J. VANNI, CITY MAYOR
- MR. TODD SHANNON, SERVICE DIRECTOR
- MR. GORAN VRHOVAC, FINANCE DIRECTOR
- MS. MANDY GWIRTZ, LAW DIRECTOR
- MS. JULIE KLESS, DIRECTOR OF RECREATION
- MR. ROB DAUBEMIRE, POLICE CHIEF
- MR. BILL MALOVRH, FIRE CHIEF
- MR. SEAN BRENNAN, CHIEF HOUSING AND ZONING INSPECTOR
- MR. TIM MCLAUGHLIN, CITY ENGINEER

**ENGINEER:**

VERDANTAS  
8150 STERLING COURT  
MENTOR, OH 44060

(440) 951-9000 PHONE  
(440) 951-7487 FAX

*Patrick Blake*  
PATRICK A. BLAKE



P.E. No. 88436

3/31/2026

DATE



ENGINEER'S PROJECT No. 32356



NO	REVISION	DATE

ISSUED FOR:	BID NO	DESIGNED BY:	DRAWN BY:	CHECKED BY:
ISSUE DATE:	SCALE:	LMM	LMM	PAB
03/24/2026				

**WILLOWICK CITY HALL**  
**PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO  
**COVER SHEET**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	G0-01
SHEET	OF
1	17

1.0 GENERAL NOTES

- 1.1 THE CONTRACTOR WILL DO ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- 1.2 A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK.
- 1.3 ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN SEWER INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
- 1.4 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.  
  
MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE LATEST VERSION OF THE OHIO MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS.
- 1.5 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE WILL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.
- 1.6 ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY AFFILIATION.
- 1.7 ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD THE CHECKED SHOP DRAWINGS TO THE OWNER FOR FINAL CHECKING AND APPROVAL. SHOP DRAWINGS MUST BE APPROVED PRIOR TO ORDERING ANY MATERIALS.
- 1.8 BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTEE RETAINER, THE CONTRACTOR WILL FURNISH THE OWNER 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 ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- 1.9 IN THE EVENT THAT ANY LEAD SERVICE CONNECTION IS ENCOUNTERED DURING THIS PROJECT BY THE CONTRACTOR, LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU) SHALL BE IMMEDIATELY NOTIFIED AND WORK AT THAT LOCATION SHALL BE STOPPED UNTIL DIRECTION ON HOW TO PROCEED IS MADE BY LCDU. CONTRACTOR SHALL CONTINUE WITH WORK ONCE LCDU GIVES NOTICE TO PROCEED WITHOUT ADDITIONAL PAYMENT FOR REMOBILIZATION.
- 2.0 EXCAVATION, BACKFILL AND COMPACTION
- 2.1 ALL EXCAVATION WILL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- 2.2 ALL BACKFILL WILL BE AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS.
- 2.3 SLAG PRODUCTS OR CRUSHED CONCRETE WILL NOT BE PERMITTED FOR BEDDING, BACKFILL, OR TRAFFIC COMPACTED SURFACE.
- 2.4 ALL UTILITY LINES CROSSING THE NEW STORM SEWER TRENCH, (I.E. STORM SEWERS, STORM LATERALS, WATERLINES, WATERLINE CONNECTIONS, SANITARY SEWERS, SANITARY LATERALS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OCT CONDUITS, CABLE TV 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 UNLESS ANY OF THE ABOVE UTILITIES ARE ENCOUNTERED AND NOT SHOWN ON THE DRAWINGS.
- 2.5 ANY COMPACTION TESTING REQUIRED AT THE SOLE DISCRETION OF THE ENGINEER SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- 2.6 THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND MANAGEMENT OF ALL GROUNDWATER AND SURFACE WATER AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ALL CONDUIT SHALL BE INSTALLED IN A DRY AND STABLE TRENCH.
- 3.0 STORM SEWER
- 3.1 ALL STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION 334100.
- 3.2 ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAN WATER CONNECTION TO THE SANITARY SEWER SYSTEM IS PROHIBITED.
- 3.3 CONTRACTOR SHALL FILL ALL VOIDS AT PIPE CONNECTIONS TO EXISTING & NEW CATCH BASINS INSIDE & OUTSIDE WITH NON-SHRINK GROUT. GROUT WATER-TIGHT AND FLUSH TO ALL INTERIOR WALLS.
- 3.4 CONTRACTOR SHALL RE-CONNECT ALL ENCOUNTERED DOWNSPOUT DRAINS AND OTHER STORM SEWER DRAIN LINES UNLESS DIRECTED OTHERWISE WITHIN.
- 3.5 EXISTING UTILITY LINE ELEVATIONS SHOWN ARE ESTIMATED AND MUST BE FIELD DETERMINED BY THE CONTRACTOR. CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE UTILITY OWNER.
- 3.6 INLET OR CATCH BASINS INSTALLED IN GRASS OR UNPAVED AREAS SHALL HAVE RIMS TO BE 3" BELOW FINAL GRADE TO ALLOW FOR POSITIVE DRAINAGE TO THE STRUCTURE.
- 3.7 PROPOSED STORM SEWER PIPE JOINTS AND FITTINGS SHALL BE WATERTIGHT.
- 3.8 INSTALL SILT SACK IN ALL CATCH BASINS, REMOVE WHEN DISTURBED AREAS ARE STABILIZED.
- 3.9 ALL GRATES SHALL BE BICYCLE SAFE, UNLESS OTHERWISE NOTED.
- 3.10 NO PIPES SHALL ENTER ANY INLET BOXES OR CATCH BASINS AT THE CORNERS.
- 3.11 PRIOR TO ORDERING CATCH BASIN STRUCTURES FOR INSTALLATION, THE CONTRACTOR SHALL INSPECT EACH LOCATION TO FIELD VERIFY EXISTING STORM CATCH BASIN AND MANHOLE SIZES AND INVERTS, AS WELL AS ALL PIPE MATERIALS, SIZES, ALIGNMENT AND INVERTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTION OF ALL EXISTING ACTIVE SEWERS AT EACH STRUCTURE LOCATION, UNLESS OTHERWISE NOTED IN THE PLANS. THE COSTS FOR INSPECTIONS SHALL BE INCLUDED IN THE UNIT PRICE STIPULATED FOR STRUCTURES TO BE REMOVED AND REPLACED OR INSTALLED. THE RESULTS OF THE CONTRACTOR SURVEY SHALL ALSO BE SHARED WITH THE ENGINEER'S REPRESENTATIVE PRIOR TO ORDERING MATERIALS.
- 3.12 ALL SAW CUTS SHALL BE FULL DEPTH ACCOMPLISHED USING A DIAMOND BLADE SAW. SAWCUTS ARE INCIDENTAL TO THE PROJECT.

4.0 EXISTING UTILITIES

- 4.1 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE OWNER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
- 4.2 BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE OWNER, 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 OWNER, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
- 4.3 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.
- 4.4 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.
- 4.5 CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE EXISTING GAS, WATER, ELECTRIC, CABLE, FIBER, TELEPHONE, SANITARY OR OTHER UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PROPOSED IMPROVEMENT INDICATED ON THE PLANS. SHOULD A CONFLICT EXIST AT A UTILITY CROSSING, THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY.  
  
THE CONTRACTOR SHALL ANTICIPATE ONE SERVICE CONNECTION FOR EACH UTILITY SHOWN TO EACH PROPERTY, EVEN IF NOT SHOWN ON PLAN.
- 4.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF THE EXISTING UTILITY OWNERS AND THE UTILITY PROTECTION SERVICE IN THE FOLLOWING LIST IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE.  
  
THE UTILITY OWNERSHIPS, AS REPORTED BY OUPS, ARE AS LISTED ON THE COVER SHEET OF THIS PLAN SET AND THE CONTACT INFORMATION FOR EACH UTILITY, IF AVAILABLE, IS LISTED BELOW.  
  
ENBRIDGE (GAS) 320 SPRINGDALE DRIVE, STE. 320 AKRON, OHIO 44333 PHONE: (330) 608-2576 ATTN: GINO MINNITI GENERAL PHONE: (800) 362-7557 RELOCATION@DOMINIONENERGY.COM  
  
THE ILLUMINATING COMPANY (ELECTRIC) 6896 MILLER ROAD BRECKSVILLE, OHIO 44141 ATTN: CHRIS MCLAUGHLIN PHONE: (440) 546-8711 MCLAUGHLIN@FIRSTENERGYCORP.COM  
  
THE CITY OF WILLOWICK TODD SHANNON CITY OF WILLOWICK SERVICE DIRECTOR 31230 VINE STREET WILLOWICK, OHIO 44095 PHONE: (440) 585-0963 TSHANNON@CITYOFWILLOWICK.COM  
  
LAKE COUNTY DEPARTMENT OF UTILITIES (WATER) 105 MAIN STREET PAINESVILLE, OHIO 44077 PHONE: (440) 350-5775 ATTN: RANDY ROTHLSBERGER, P.E. RANDY.ROTHLSBERGER@LAKECOUNTYOHIO.GOV
- 4.7 ALL ROAD CLOSURE MUST BE APPROVED BY THE OWNER. IN THE EVENT OF A ROAD CLOSURE THE CONTRACTOR SHALL NOTIFY THE CITY OF WILLOWICK, A MINIMUM OF 48 HOURS IN ADVANCE.
- 4.8 SERVICE CONNECTIONS AND LATERALS ARE SHOWN ON THE PLANS USING RECORD DRAWINGS AND G.I.S DATA. THE CONTRACTOR SHALL FIELD VERIFY AND PROTECT CONNECTIONS AND LATERALS DURING CONSTRUCTION AND REPAIR ANY DAMAGE DUE TO CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATION, PROTECTION, AND/OR REPAIR.
- 5.0 GRASS RESTORATION
- 5.1 GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
- 5.2 SEEDING AND/OR SODDING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 329200.19 OF THE DETAILED SPECIFICATIONS.
- 5.3 ALL GRASSSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY SEEDING AND MULCHING RATHER THAN SODDING UNLESS OTHERWISE SHOWN ON PLANS, DETAILS, OR SPECIFICATIONS.
- 5.4 SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL IMMEDIATELY FOLLOW EXCAVATION AND SEWER INSTALLATION OPERATIONS.
- 5.5 ALL EXPOSED SLOPES ARE TO BE SEEDED AND MULCHED IMMEDIATELY AFTER GRADING WORK IS COMPLETED. IF, IN THE OPINION OF THE ENGINEER, ADDITIONAL EROSION AND SEDIMENTATION CONTROLS ARE REQUIRED, THEY SHALL BE INSTALLED UNDER HIS DIRECTION IN ACCORDANCE WITH APPLICABLE SECTIONS OF ODOT ITEM 832.
- 6.0 DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL
- 6.1 ALL SWALES, OR DITCHES DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 6.2 POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.
- 6.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 832 AND AS REQUIRED BY THE LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT.
- 6.4 TEMPORARY OR PERMANENT EROSION CONTROL MATTING SHALL BE UTILIZED FOR STABILIZATION OF ALL DISTURBED SLOPE AREAS GREATER THAN 2:1 (HORZ:VERT). UTILIZED ON SEVERE SLOPES GREATER THAN 1-1/2:1, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6.5 THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE OWNER, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.

7.0 TREE PROTECTION

- 7.1 SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEM. THE OPERATION OF ALL EQUIPMENT, PARTICULARLY WHEN EMPLOYING BOOMS, THE STORAGE OF MATERIALS AND THE DISPOSITION OF EXCAVATED MATERIALS SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED BY THE ENGINEER FOR REMOVAL.
- 8.0 MONUMENT PROTECTION
- 8.1 PROPERTY PINS AND MONUMENTS ALONG THE ROUTE OF THE IMPROVEMENT, WHICH MAY BE DISTURBED BY THE CONTRACTOR, SHALL BE REFERENCED BY A PROFESSIONAL SURVEYOR, SO THEY CAN BE REPLACED IN THE EVENT THAT THEY ARE DISTURBED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL PINS, MONUMENTS AND REFERENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND REFERENCING AND REPLACING THE PROPERTY PINS AND MONUMENTS.
- 9.0 MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS
- 9.1 WHEN MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION (EXCEPT FENCES). AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS IN A PERMANENT LOCATION IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER ITEMS.
- 10.0 RESTORATION
- 10.1 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORK DAY.
- 10.2 ALL EXISTING STORM SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH WORK IN THE UNIT PRICE FOR OTHER RELATED ITEMS OF WORK.
- 10.3 RESTORATION SHALL INCLUDE SEEDING AND MULCHING OF DISTURBED AREAS, RESTORATION OF EXISTING DRIVES AND FINAL CLEAN UP.
- 11.0 MATERIAL STORAGE
- 11.1 ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, HYDRANTS, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES OR OTHER UTILITY CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. GUTTERS SHALL BE KEPT CLEAR AND MAINTAINED AT ALL TIMES OR OTHER SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE. NATURAL DRAINAGE COURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF WORK, ALL MATERIALS SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER.
- 11.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL TREES, STUMPS, BROKEN PAVEMENT AND ALL CONSTRUCTION DEBRIS OF WHATEVER NATURE WITHIN THE WORK LIMITS OF THE PROJECT. NO EXTRA PAYMENT WILL BE MADE BY THE OWNER FOR THE REMOVAL AND DISPOSAL OF DEBRIS.
- 12.0 MATERIAL TESTING
- 12.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE OWNER MAY REQUIRE SUBGRADE COMPACTION TESTING, ASPHALT AND CONCRETE QUALITY CONTROL TESTING WHICH WILL BE PAID FOR BY THE OWNER.
- 13.0 INSPECTION
- 13.1 THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING THE OWNER, AS APPROPRIATE, A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR OBSERVATION. IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE CITY TO AVOID UNNECESSARY OBSERVATION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE TIME INCURRED.
- 14.0 PROHIBITED CONSTRUCTION ACTIVITIES
- 14.1 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;
- 14.2 LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;
- 14.3 INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS;
- 14.4 PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE;
- 14.5 DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO;
- 14.6 PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;
- 14.7 DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA;
- 14.8 DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS;
- 14.9 OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;
- 14.10 DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION;
- 14.11 STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES;
- 14.12 RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER;
- 14.13 OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OR 8:00 AM AND 5:00 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS; AND
- 14.14 CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS.

- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

LEGEND & SYMBOLOGY:

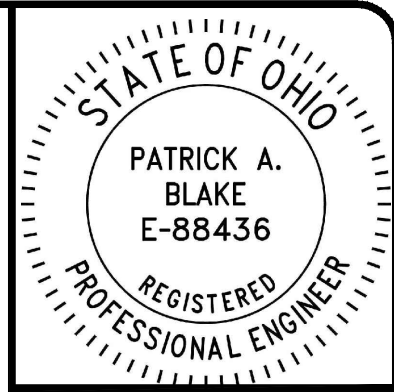
EXISTING LINETYPES

- EX. DRIVEWAY
- EX. CONCRETE SIDEWALK
- EX. EDGE OF PAVEMENT
- WS ----- WS ----- WS EX. WATER SERVICE
- SS ----- SS ----- SS EX. SANITARY SERVICE LATERAL
- WAT ----- EX. STORM SEWER LATERAL
- SAN ----- EX. WATER LINE / WATER MAIN
- STM ----- EX. SANITARY SEWER
- GAS ----- EX. STORM SEWER
- EX. RW ----- EX. GAS LINE
- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY

PROPOSED LINETYPES

- STM ----- STORM SEWER
- STORM SEWER, DOUBLE
- STORM, ROOF DRAIN
- UD ----- UD ----- UD STORM, UNDERDRAIN
- BUSH LINE
- TREE LINE
- 1005 ----- MAJOR CONTOUR
- 1001 ----- MINOR CONTOUR
- WATER EDGE
- BOUNDARY LINE
- PROPERTY LINE
- EASEMENT LINE
- LEASE LINE
- RIGHT-OF-WAY LINE
- RIGHT-OF-WAY C/L
- PHASE LINE
- TEMPORARY RIGHT-OF-WAY
- WORK LIMIT
- SETBACK

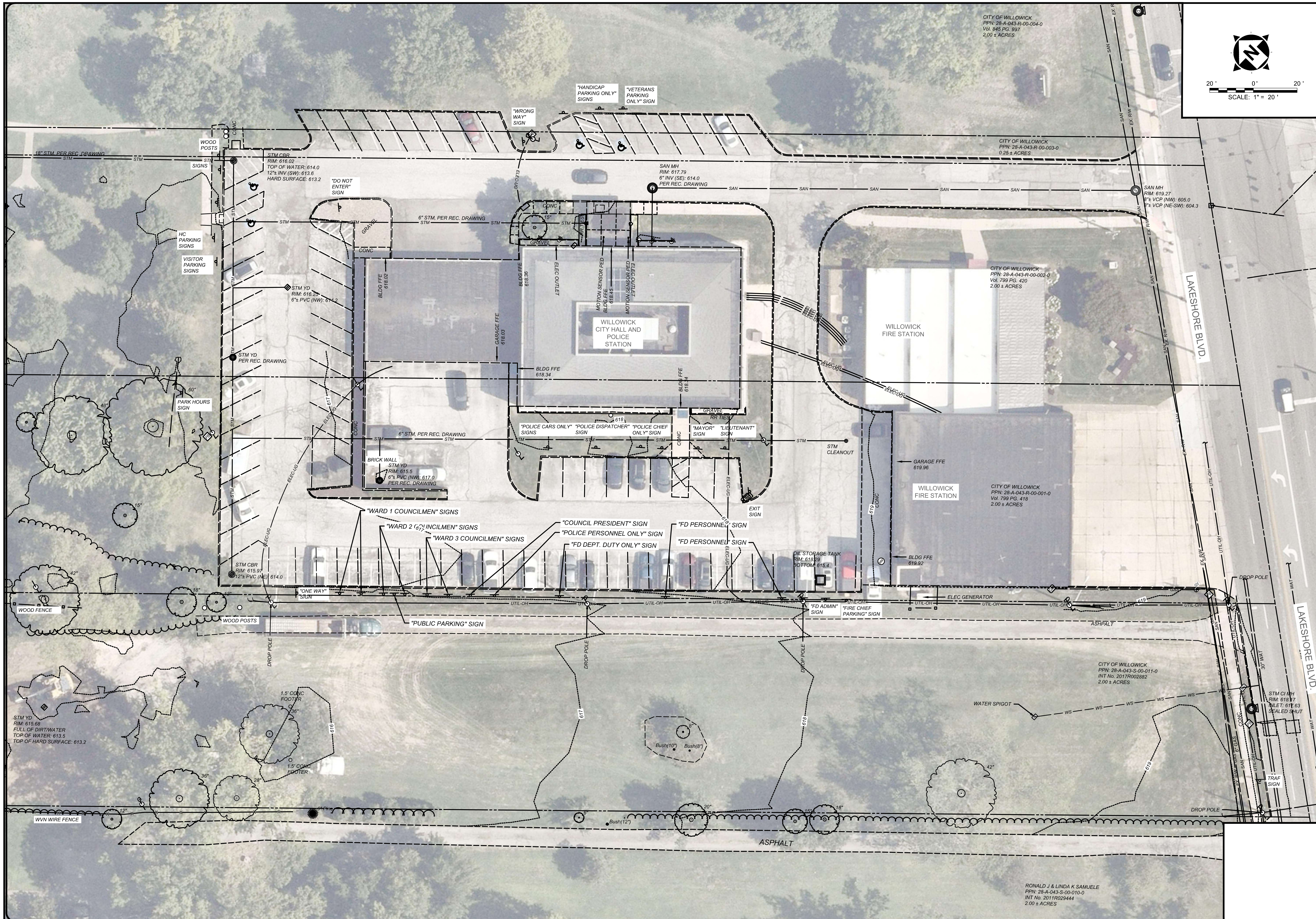
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9	ALT #1 - EXISTING LOT PLAN GRADING DETAILS - 2	C0-07
10	BASE BID - GRADING & DRAINAGE PLAN	C0-08
11	BASE BID - PARKING LOT EXPANSION STORM SEWER PROFILES	C0-09
12	STANDARD DETAILS - 1	C0-10
13	STANDARD DETAILS - 3	C0-11
14	STANDARD DETAILS - 4	C0-12
15	E&S PLAN	C0-13
16	E&S NOTES	C0-14
17	E&S DETAILS	C0-15



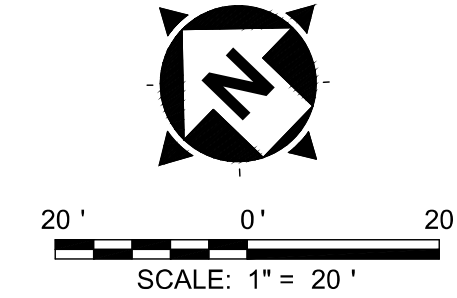
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REVISION					
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BID	03/24/2026	LMM	LMM	PAB	
ISSUED FOR:		SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

**WILLOWICK CITY HALL**  
**PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO  
**GENERAL NOTES, INDEX & SYMBOLOGY**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	G0-02
SHEET	OF
2	17



CITY OF WILLOWICK  
PPN: 28-A-043-R-00-004-0  
Vol. 845 PG. 997  
2.00 ± ACRES



**verdantas**

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LMM	PAB	

**WILLOWICK CITY HALL  
PARKING LOT IMPROVEMENTS**  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
CITY OF WILLOWICK  
LAKE COUNTY, OHIO

**EXISTING CONDITIONS**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-01
SHEET	3
OF	17

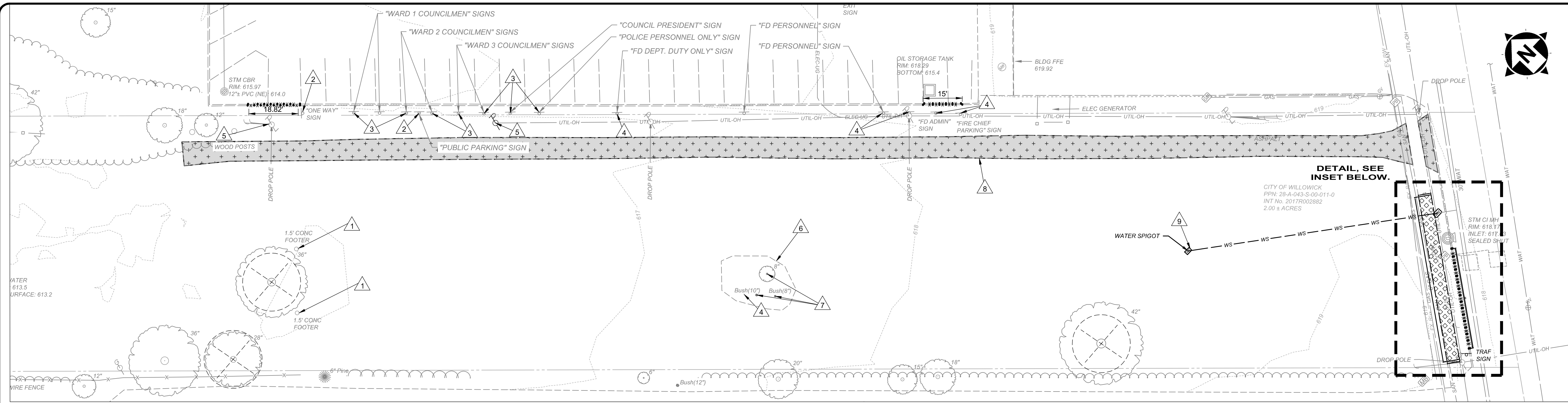
RONALD J & LINDA K SAMUELE  
PPN: 28-A-043-S-00-010-0  
INT No. 2011R029444  
2.00 ± ACRES

DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			03/24/2026	WILLOWICK CITY HALL PARKING LOT IMPROVEMENTS	03/24/2026	1"=20'	LMM	LMM	PAB

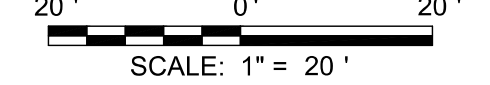
**WILLOWICK CITY HALL  
 PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO

**BASE BID: DEMOLITION PLAN**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-02
SHEET	4
OF	17



**BASE BID DEMOLITION PLAN (PLAN VIEW)**



**DEMOLITION PLAN CODED NOTES**

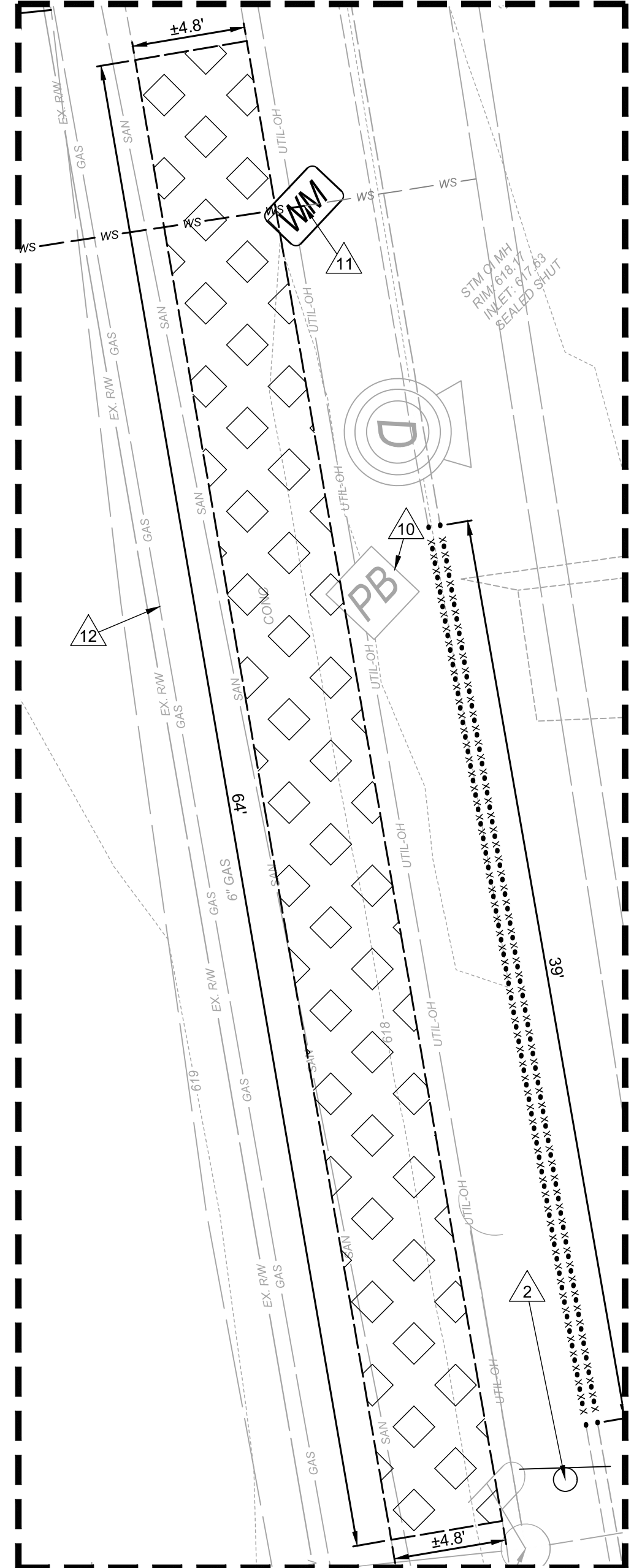
- 1 CONCRETE FOOTERS TO BE REMOVED.
- 2 TRAFFIC SIGN TO BE RELOCATED.
- 3 COUNCIL SIGNS TO BE RELOCATED. (WORK DONE BY CITY)
- 4 FD DEPT. SIGNS TO BE RELOCATED. (WORK DONE BY CITY)
- 5 EXISTING UTILITY POLE TO BE RELOCATED (BY OTHERS).
- 6 LANDSCAPE ISLAND TO BE REMOVED.
- 7 BUSHES TO BE REMOVED.
- 8 ASPHALT DRIVEWAY TO BE REMOVED.
- 9 WATER SPIGOT AND PIPING TO CAP AT OLD METER LOCATION TO BE REMOVED
- 10 PULL BOX TO BE RELOCATED.
- 11 REMOVE EXISTING WATER SERVICE LINE. CUT, CAP, AND ABANDON THE SERVICE LINE AT THE METER BOX. CONTRACTOR SHALL FIELD VERIFY LOCATION AND PRESENCE OF THE SERVICE LINE.
- 12 EX. GAS LINE CROSSING TO BE SUPPORTED DURING CONSTRUCTION BY AIR BRIDGE, REFER TO ENBRIDGE DETAIL.

**DEMOLITION PLAN LEGEND**

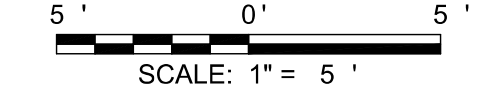
- SAWCUT FULL DEPTH PVTM.
- REMOVE FULL DEPTH ROADWAY ASPHALT PVTM.
- REMOVE ASPHALT DRIVEWAY
- CONCRETE, SIDEWALK REMOVED
- EXISTING 6" CURB TO BE REMOVED / SAWCUT FOR APRON
- TREE TO BE REMOVED

**GENERAL NOTES**

- SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
- EXISTING CONDITIONS SHOWN HEREIN ARE PER LIMITED TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS DATED JULY 7, 2025.
- EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO CONSTRUCTION. IN THE EVENT UTILITY LOCATION DIFFERS IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
- CONTRACTOR TO RECONNECT ALL ACTIVE EXISTING DRAIN LINES AND ROOF DRAINS, SHOWN OR NOT SHOWN IN THE PLANS, TO THE STORM SEWER SYSTEM - SEE 'DRAIN PIPE CONNECTION ANY AND ALL STORM STRUCTURES, PIPES, DRAINS, ETC. NOT ILLUSTRATED IN THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND DYE-TESTED TO DETERMINE THE FLOW PATH.
- EXISTING CONDITIONS ARE GRAPHICALLY SHOWN IN LIGHT GRAY FOR CLARITY PURPOSES.
- ANY ITEM NOT MARKED TO BE REMOVED SHALL REMAIN.

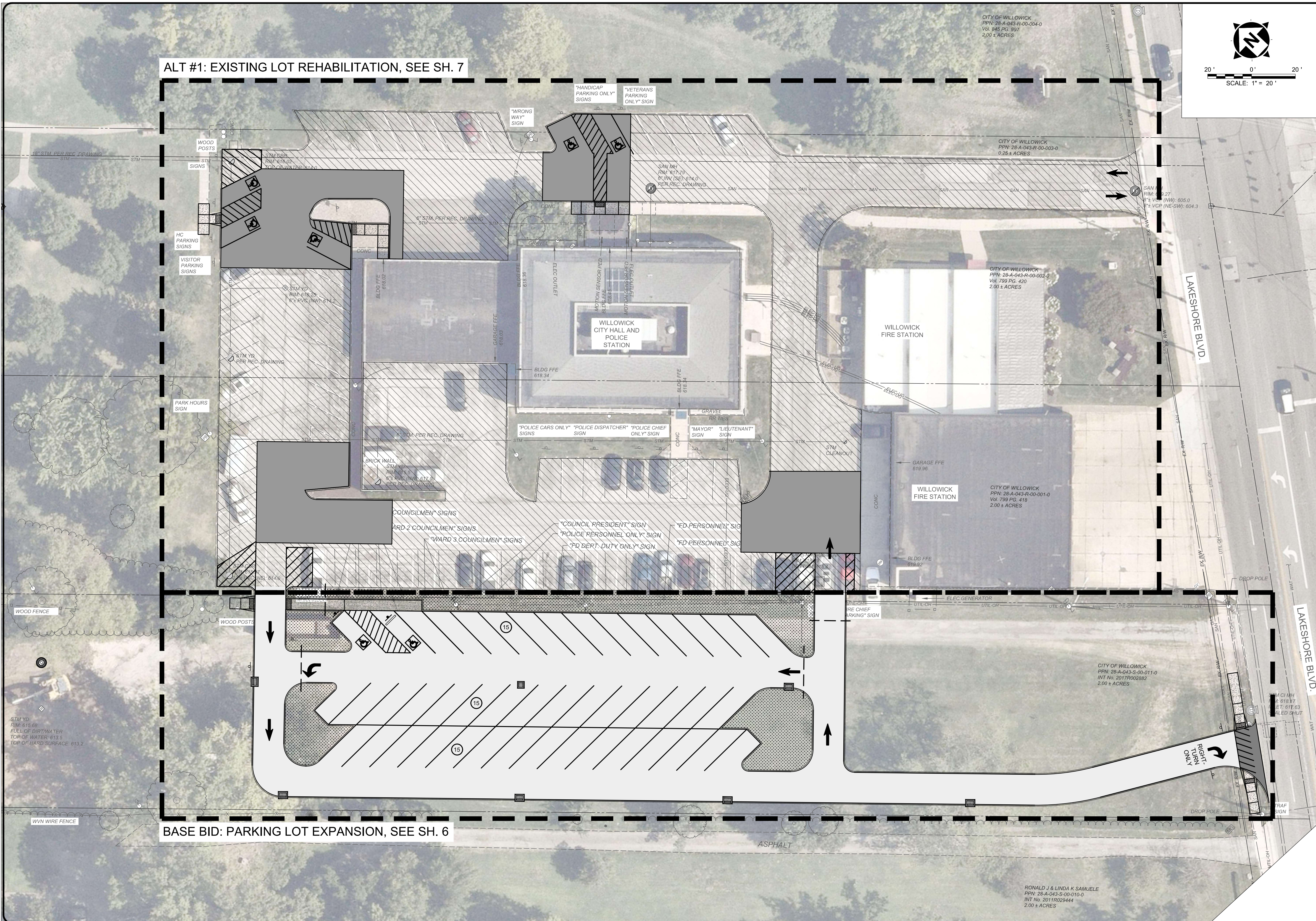


**APRON DEMOLITION DETAIL**

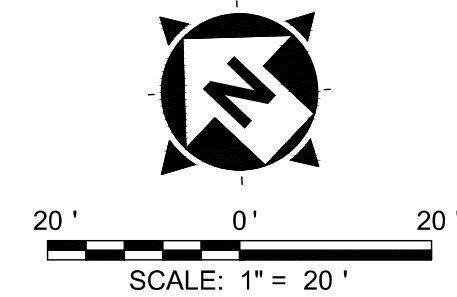


ALT #1: EXISTING LOT REHABILITATION, SEE SH. 7

BASE BID: PARKING LOT EXPANSION, SEE SH. 6



CITY OF WILLOWICK  
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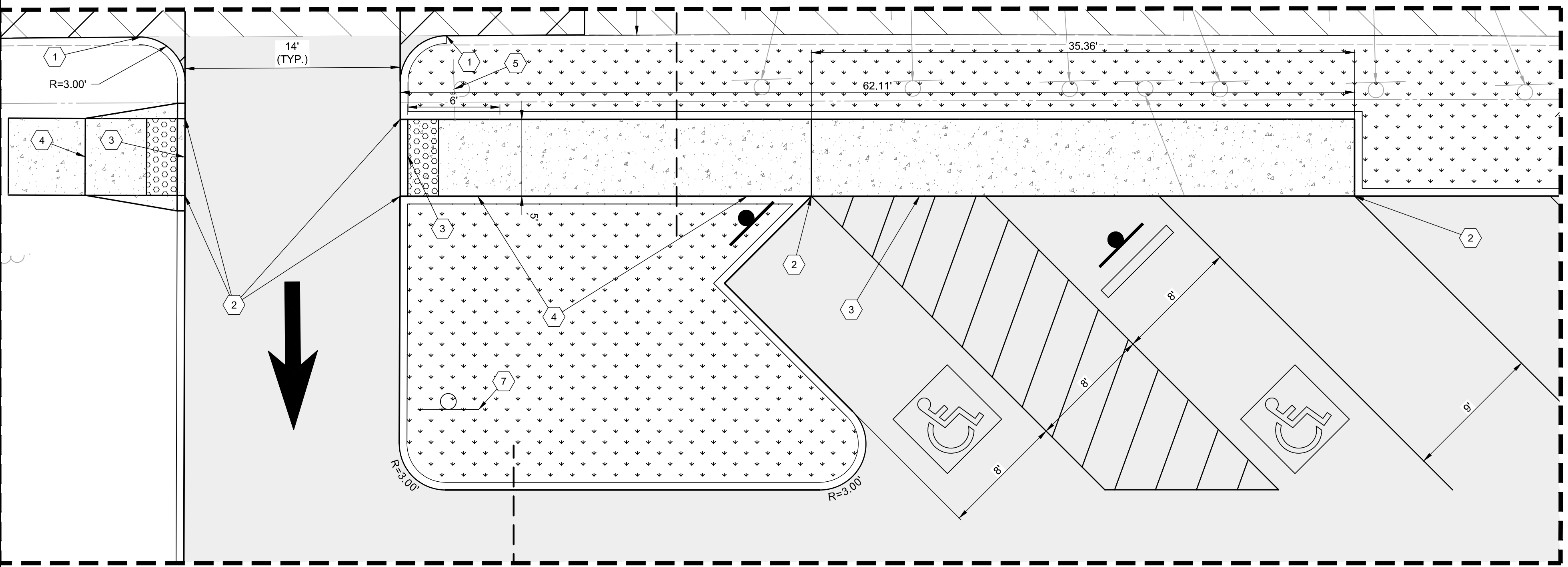
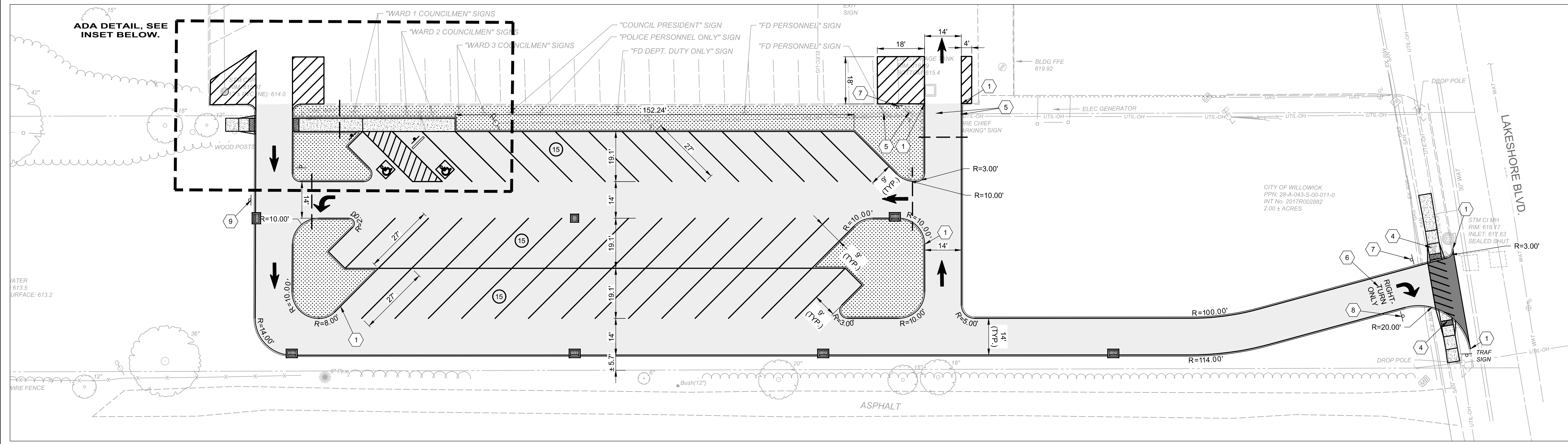
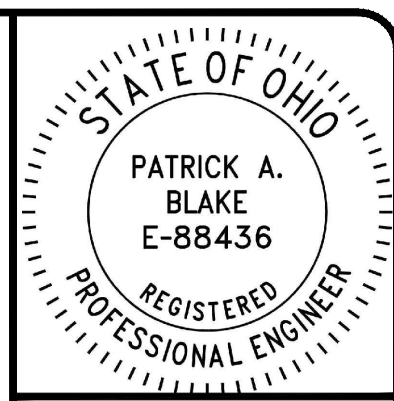
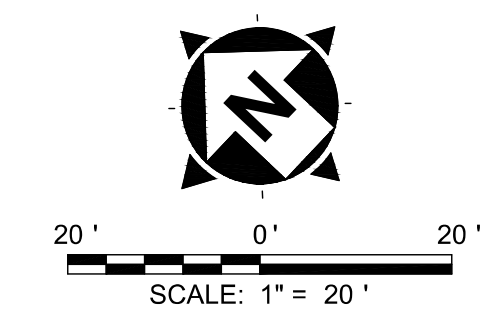


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**WILLOWICK CITY HALL  
PARKING LOT IMPROVEMENTS**  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
LAKE COUNTY, OHIO  
CITY OF WILLOWICK  
**OVERALL SITE PLAN**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-03
SHEET	5
OF	17

RONALD J & LINDA K SAMUELE  
PPN: 28-A-043-S-00-010-0  
INT No: 2011R029444  
2.00 ± ACRES



**ADA GRADING DETAIL**  
SCALE: 1" = 5'

**SITE PLAN LEGEND**

- CATCH BASIN
- CATCH BASIN CURB INLET
- PROPOSED TYPE "C" PAVEMENT (ASPHALT), PARKING LOT
- PROPOSED CONCRETE DRIVE APRON
- PROPOSED CONCRETE SIDEWALK
- PROPOSED WHEEL STOP
- PROPOSED ADA SIGN
- PROPOSED ADA PAVEMENT LOGO
- PROPOSED PARKING STRIPING
- PROPOSED CROSSWALK STRIPING
- PROPOSED ADA STRIPING OR PARKING ISLAND STRIPING
- PROPOSED DIRECTIONAL ARROW
- EXISTING UTILITY POLE TO BE RELOCATED
- PROPOSED PARKING SPACE COUNT
- PROPOSED GRASS SEEDING AND MULCHING
- PROPOSED SCHEDULE 40 PVC CONDUIT FOR FUTURE LIGHTING. INSTALL PER LIGHTING TRENCH DETAIL.

**SITE PLAN CODED NOTES**

- 1 CURB, TYPE 6, PER DETAIL ON SH. 11
- 2 TRANSITION BETWEEN VERTICAL CURB & FLUSH CURB & WALK
- 3 FLUSH CURB
- 4 PROPOSED ADA RAMP, PER DETAILS ON SH. 13
- 5 EXISTING SIGN TO BE RELOCATED BY CITY
- 6 PROPOSED PAVEMENT MARKING TEXT
- 7 PROPOSED "DO NOT ENTER" SIGN, MUTCD R5-1
- 8 PROPOSED "RIGHT TURN ONLY" SIGN, MUTCD R3-5R
- 9 PROPOSED "LEFT TURN ONLY" SIGN, MUTCD R3-5L

**GENERAL NOTES**

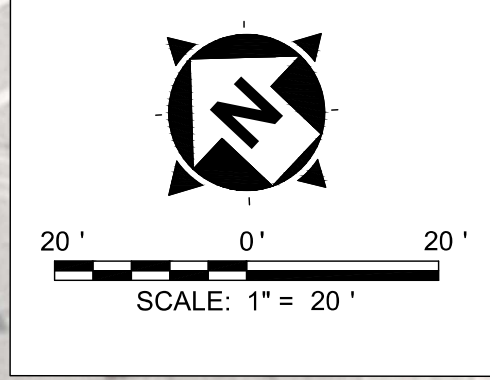
1. EXISTING AND PROPOSED TOPOGRAPHY ARE NOT SHOWN FOR CLARITY PURPOSES.
2. FUTURE BUILDING IS SHOWN FOR REFERENCE ONLY, FOOTPRINT OF STRUCTURE IS APPROXIMATE.
3. PROPOSED DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
5. EXISTING CONDITIONS SHOWN HEREIN ARE PER TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS DATED JULY 7, 2025.
6. EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO CONSTRUCTION. IN THE EVENT UTILITY LOCATION DIFFERS IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
7. CONTRACTOR TO RECONNECT ALL ACTIVE EXISTING DRAIN LINES AND ROOF DRAINS, SHOWN OR NOT SHOWN IN THE PLANS, TO THE STORM SEWER SYSTEM - SEE 'DRAIN PIPE CONNECTION ANY AND ALL STORM STRUCTURES, PIPES, DRAINS, ETC. NOT ILLUSTRATED IN THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND DYE-TESTED TO DETERMINE THE FLOW PATH.
8. THE PROPOSED IMPROVEMENTS ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
9. ALL INTERFACES BETWEEN PROPOSED CONCRETE CURBING AND ASPHALT PAVEMENT, ASPHALT JOINTS AT PROPOSED SAWCUTS, AND BETWEEN PROPOSED CONCRETE AND ASPHALT SURFACES SHALL BE NEATLY SEALED WITH A RUBBERIZED ASPHALT SEALANT
10. SEEDING AND MULCHING HATCH IS INTENDED TO ILLUSTRATE MATERIALS WITHIN THE INTERIOR ISLANDS OF THE PARKING LOT. ALL DISTURBED AREAS WITHIN THE LIMITS OF WORK, THAT ARE NOT INTENDED TO BE PAVED WITH HARDSCAPE SHALL ALSO BE SEEDING AND MULCHED PER THE SPECIFICATIONS.

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03/24/2026			
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CHECKED BY:	PAB		

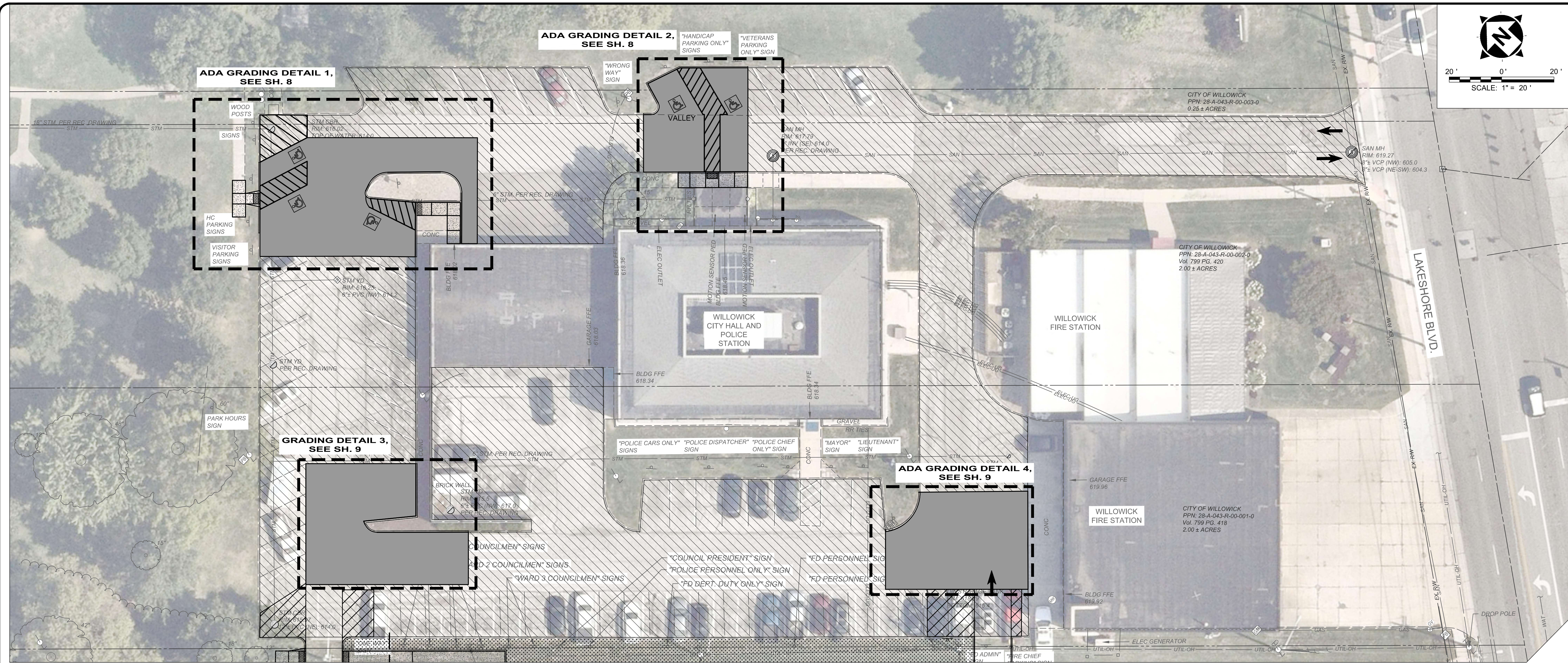
**WILLOWICK CITY HALL  
PARKING LOT IMPROVEMENTS  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
CITY OF WILLOWICK  
LAKE COUNTY, OHIO**

**BASE BID - PARKING LOT  
EXPANSION SITE PLAN**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-04
SHEET	6
OF	17



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03/24/2026		
ISSUE DATE:	SCALE:	DESIGNED BY:
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LMM	PAB	



**EXISTING LOT REHAB. LEGEND**

- ASPHALT PAVEMENT REPLACEMENT, TYPE "C"
- ASPHALT PAVEMENT MILL & RESURFACING (PAVEMENT PLANING), PER DETAIL ON SH. 12. PARKING LOT SHALL BE STRIPED AFTER IMPROVEMENTS AND RESURFACING PER PAVEMENT MARKING DETAILS
- ADA CURB RAMP TO BE REPLACED AND PROPOSED CONCRETE SIDEWALK
- SANITARY MANHOLE ADJUSTED TO GRADE
- STORMWATER CLEANOUT ADJUSTED TO GRADE
- CATCH BASIN (ROUND GATE) ADJUSTED TO GRADE
- STORM YARD DRAIN ADJUSTED TO GRADE

**GENERAL NOTES**

1. GRAPHICAL SCREENING AND SHADING IS USED TO DE-EMPHASIZE EXISTING ITEMS AND SOME NEW IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK.
2. EXISTING AND PROPOSED TOPOGRAPHY ARE NOT SHOWN FOR CLARITY PURPOSES.
3. PROPOSED DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
5. EXISTING CONDITIONS SHOWN HEREIN ARE PER LIMITED TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS DATED JULY 7, 2025. RECORD AERIAL PHOTOGRAPHY TO ESTABLISH HARDSCAPE EXTENTS.
6. EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO CONSTRUCTION. IN THE EVENT UTILITY LOCATION DIFFERS IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
7. THE PROPOSED IMPROVEMENTS AND REHABILITATION WORK ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
8. ALL INTERFACES BETWEEN PROPOSED CONCRETE CURBING AND ASPHALT PAVEMENT, ASPHALT JOINTS AT PROPOSED SAWCUTS, AND BETWEEN PROPOSED CONCRETE AND ASPHALT SURFACES SHALL BE NEATLY SEALED WITH A RUBBERIZED ASPHALT SEALANT

**WILLOWICK CITY HALL  
 PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO  
**ALT #1 - EXISTING LOT  
 REHABILITATION SITE PLAN**

PROJECT NO.	
32356	
DISCIPLINE	
CIVIL	
SHEET NAME	
C0-05	
SHEET	OF
7	17

NO	REVISION	DATE

**WILLOWICK CITY HALL  
 PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO

**ALT #1 - EXISTING LOT PLAN  
 GRADING DETAILS - 1**

ISSUED FOR:	BID NO	PAB
ISSUE DATE:	03/24/2026	
SCALE:	1"=20'	
DESIGNED BY:	LMM	
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**EXISTING LOT REHAB. LEGEND**

- ASPHALT PAVEMENT REPLACEMENT, TYPE "C"
- ADA CURB RAMP TO BE REPLACED AND PROPOSED CONCRETE SIDEWALK
- PROPOSED SPOT ELEVATION ABBREVIATIONS AS FOLLOWS:
  - TAGLESS - PROPOSED GRADE
  - BC - BOTTOM OF CURB AT PAVEMENT
  - TC - TOP OF CURB
  - TC/BC - FLUSH CURB
  - RIM - RIM ELEVATION OF STRUCTURE
- EXISTING SPOT ELEVATION/MEET EXISTING GRADE
- PROPOSED SLOPE
- 650 CONTOUR - MAJOR
- 649 CONTOUR - MINOR

**EXISTING LOT REHAB. CODED NOTES**

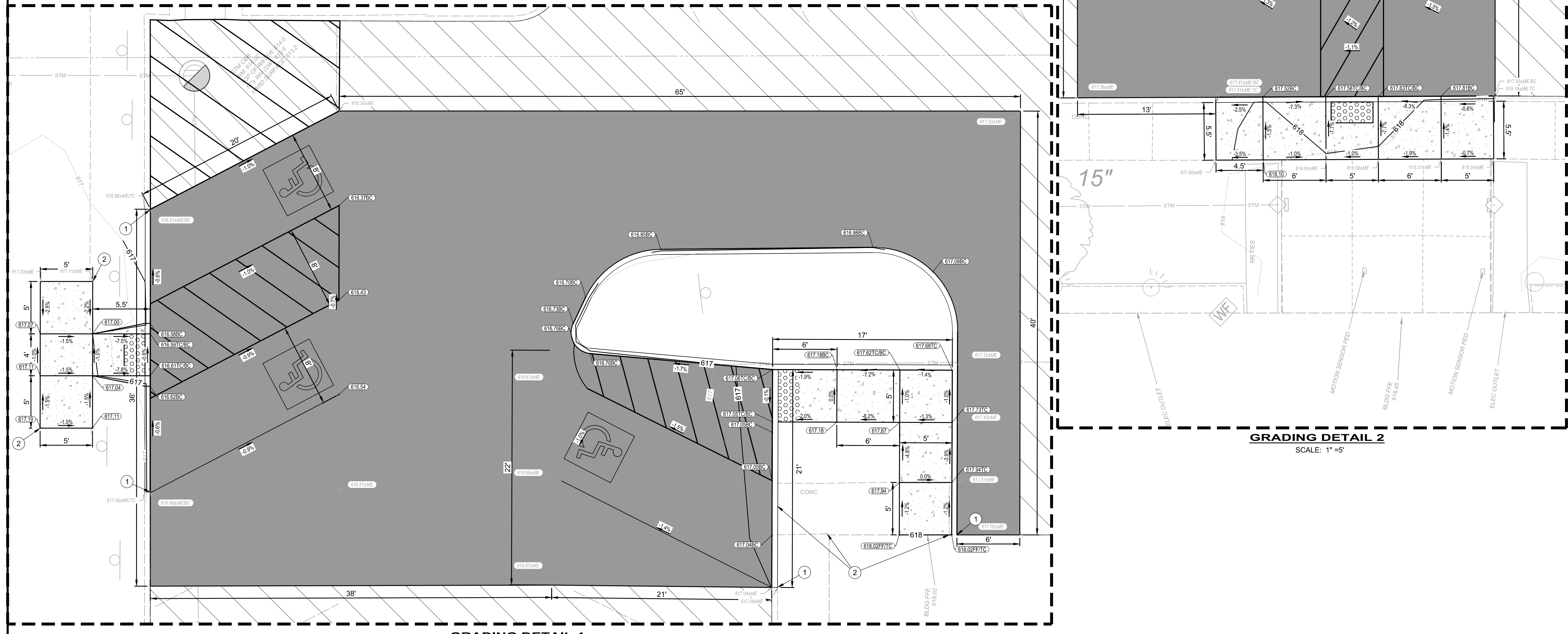
- ① PROPOSED CURB, TYPE 6
- ② SIDEWALK TO BE REMOVED

**GENERAL NOTES**

1. PROPOSED DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
3. EXISTING CONDITIONS SHOWN HEREIN ARE PER LIMITED TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS DATED JULY 7, 2025.
4. THE PROPOSED IMPROVEMENTS ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL INTERFACES BETWEEN PROPOSED CONCRETE CURBING AND ASPHALT PAVEMENT, ASPHALT JOINTS AT PROPOSED SAWCUTS, AND BETWEEN PROPOSED CONCRETE AND ASPHALT SURFACES SHALL BE NEATLY SEALED WITH A RUBBERIZED ASPHALT SEALANT.
6. RE STRIPE PER PAVEMENT MARKING DETAILS ON SHEET 11.
7. REFER TO PREVIOUS SHEET FOR RESURFACING EXTENTS.

**EXISTING PAVEMENT REPLACEMENT AND GRADING:**

1. PAVEMENT REPLACEMENT LIMITS IN SOME OF THE AREAS ARE SHOWN WITHOUT ELEVATION DATA. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND MATCH THE FINISHED PAVEMENT SURFACE TO EXISTING SURROUNDING GRADES. PAVEMENT SHALL BE CONSTRUCTED TO PROVIDE SMOOTH TRANSITIONS AND POSITIVE DRAINAGE, WITH NO PONDING OR CREATION OF LOW SPOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MINOR GRADING OR ADJUSTMENT NECESSARY TO ACHIEVE PROPER DRAINAGE AND TIE-IN TO EXISTING CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER.



**GRADING DETAIL 1**  
 SCALE: 1" = 5'

**GRADING DETAIL 2**  
 SCALE: 1" = 5'

**EXISTING PAVEMENT REPLACEMENT AND GRADING:**

- PAVEMENT REPLACEMENT LIMITS IN SOME OF THE AREAS ARE SHOWN WITHOUT ELEVATION DATA. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND MATCH THE FINISHED PAVEMENT SURFACE TO EXISTING SURROUNDING GRADES. PAVEMENT SHALL BE CONSTRUCTED TO PROVIDE SMOOTH TRANSITIONS AND POSITIVE DRAINAGE, WITH NO PONDING OR CREATION OF LOW SPOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MINOR GRADING OR ADJUSTMENT NECESSARY TO ACHIEVE PROPER DRAINAGE AND TIE-IN TO EXISTING CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER.

**EXISTING LOT REHAB. LEGEND**

ASPHALT PAVEMENT REPLACEMENT, TYPE "C"

**EXISTING LOT REHAB. CODED NOTES**

1 PROPOSED CURB, TYPE 6

**GENERAL NOTES**

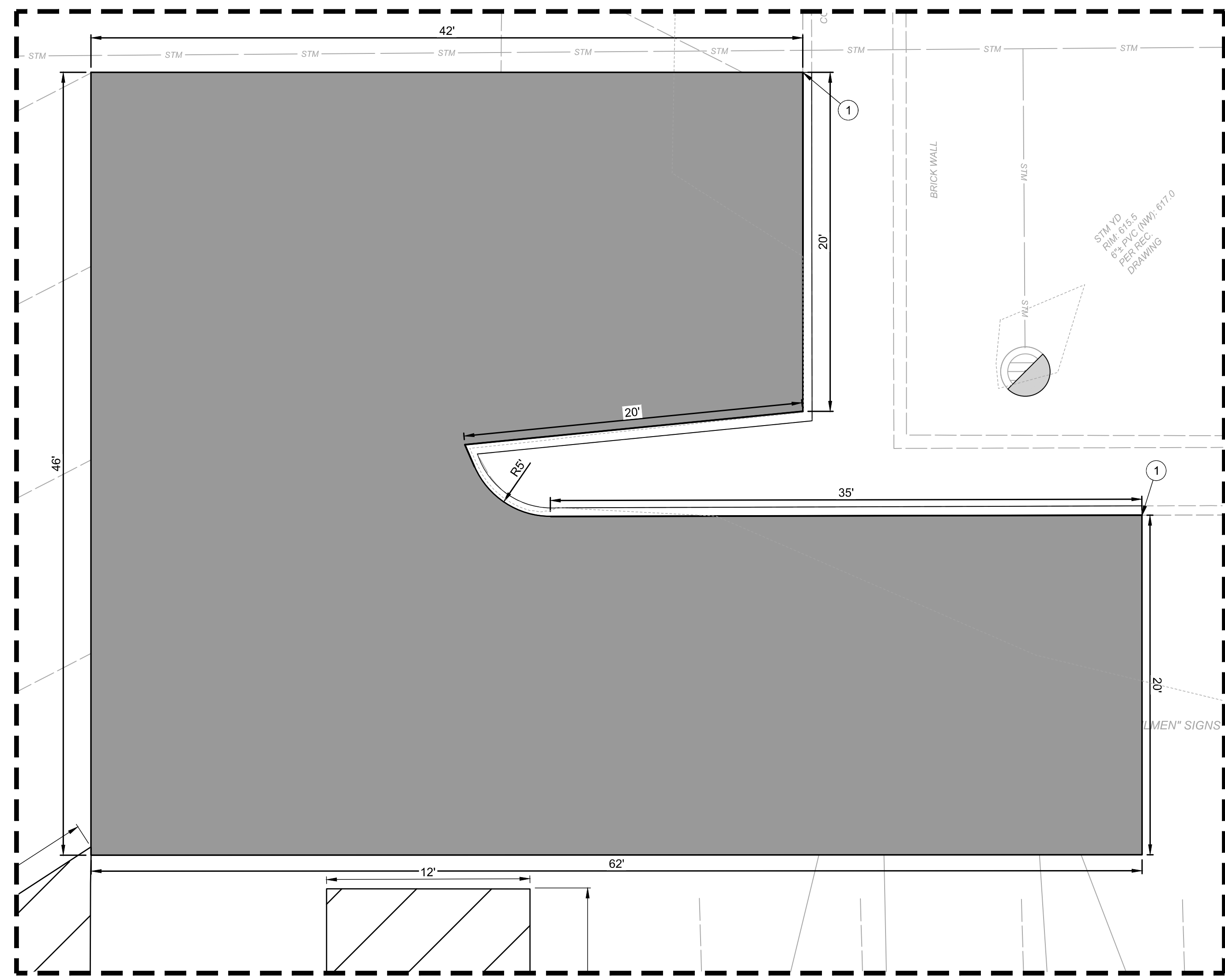
- PROPOSED DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
- EXISTING CONDITIONS SHOWN HEREIN ARE PER LIMITED TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS DATED JULY 7, 2025.
- THE PROPOSED IMPROVEMENTS ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL INTERFACES BETWEEN PROPOSED CONCRETE CURBING AND ASPHALT PAVEMENT, ASPHALT JOINTS AT PROPOSED SAWCUTS, AND BETWEEN PROPOSED CONCRETE AND ASPHALT SURFACES SHALL BE NEATLY SEALED WITH A RUBBERIZED ASPHALT SEALANT.
- RE STRIPE PER PAVEMENT MARKING DETAILS ON SHEET 11.
- REFER TO PREVIOUS SHEET FOR RESURFACING EXTENTS.



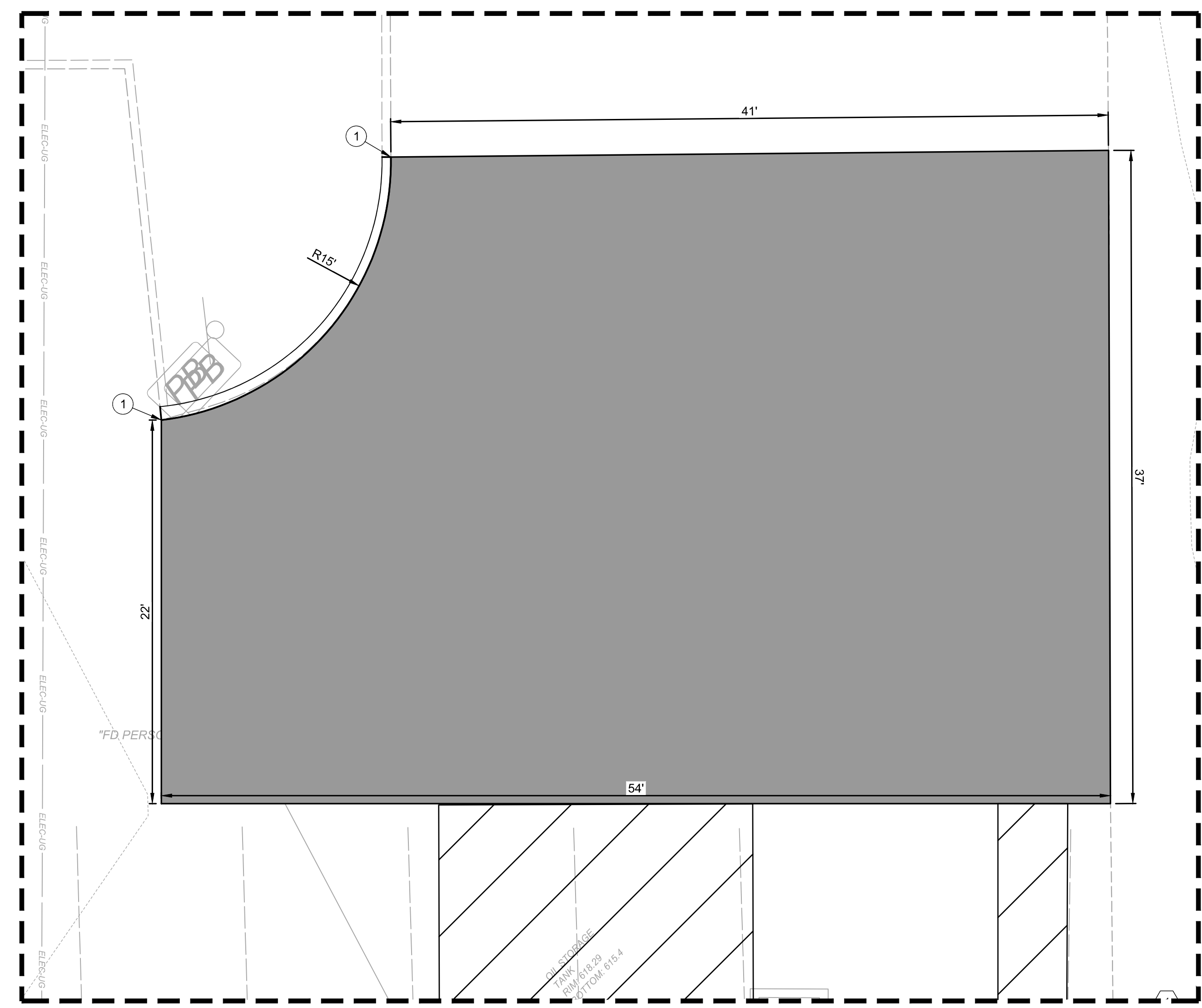
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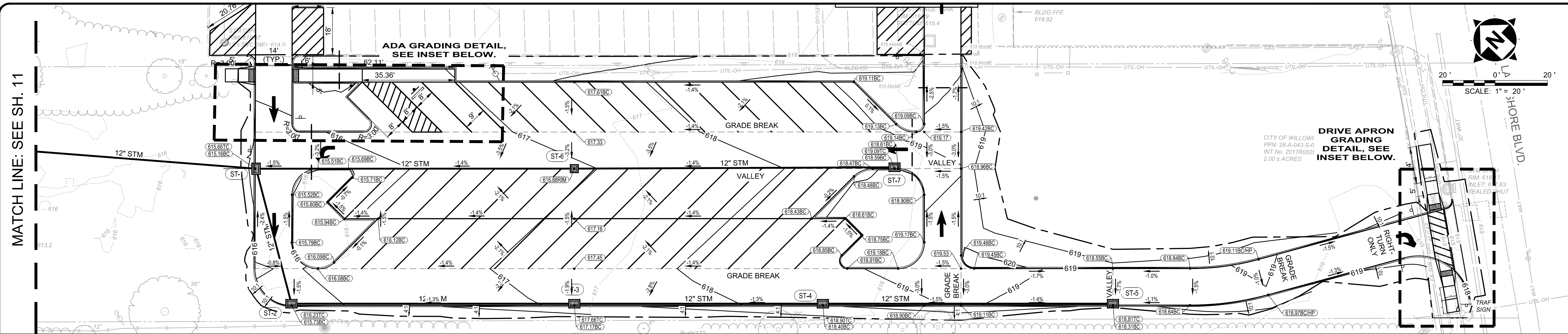
PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-07
SHEET	9
OF	17



**GRADING DETAIL 3**  
SCALE: 1"=5'



**GRADING DETAIL 4**  
SCALE: 1"=5'

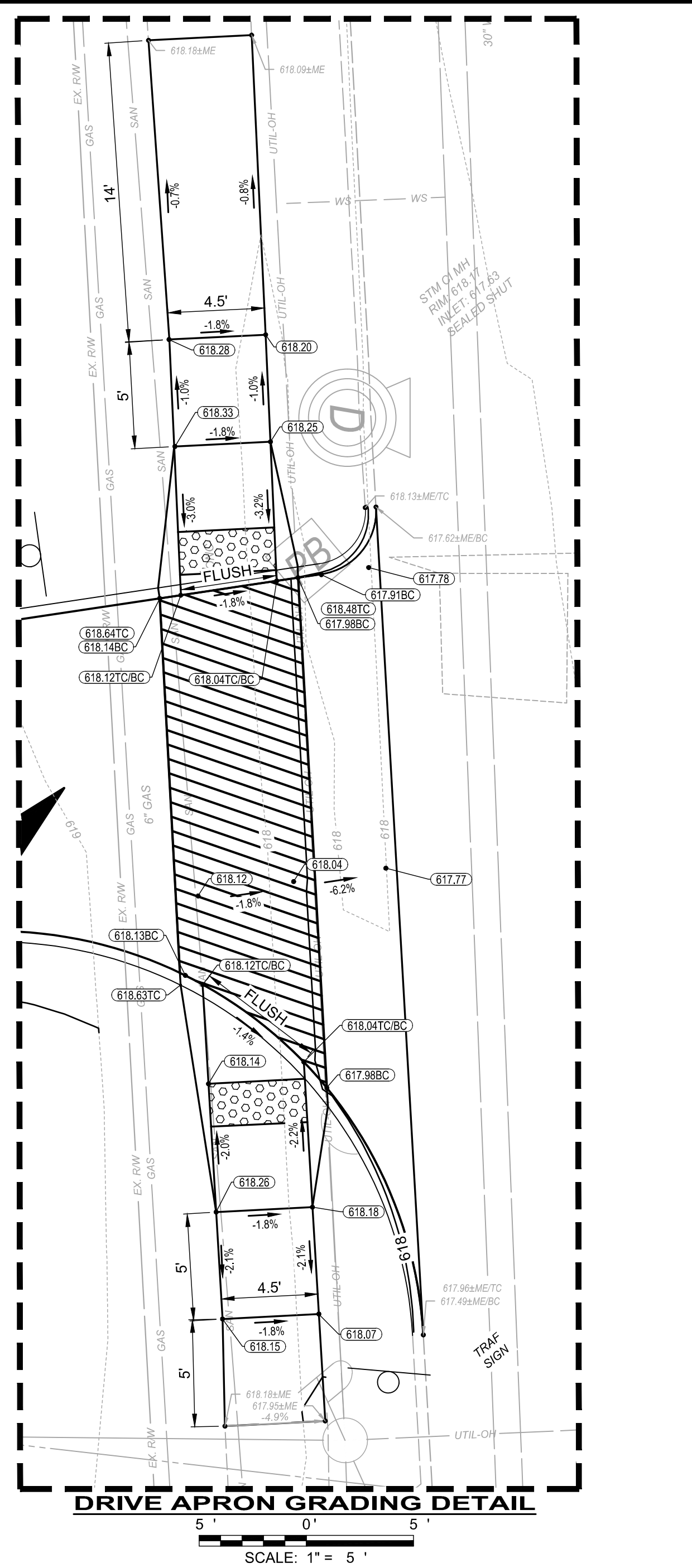
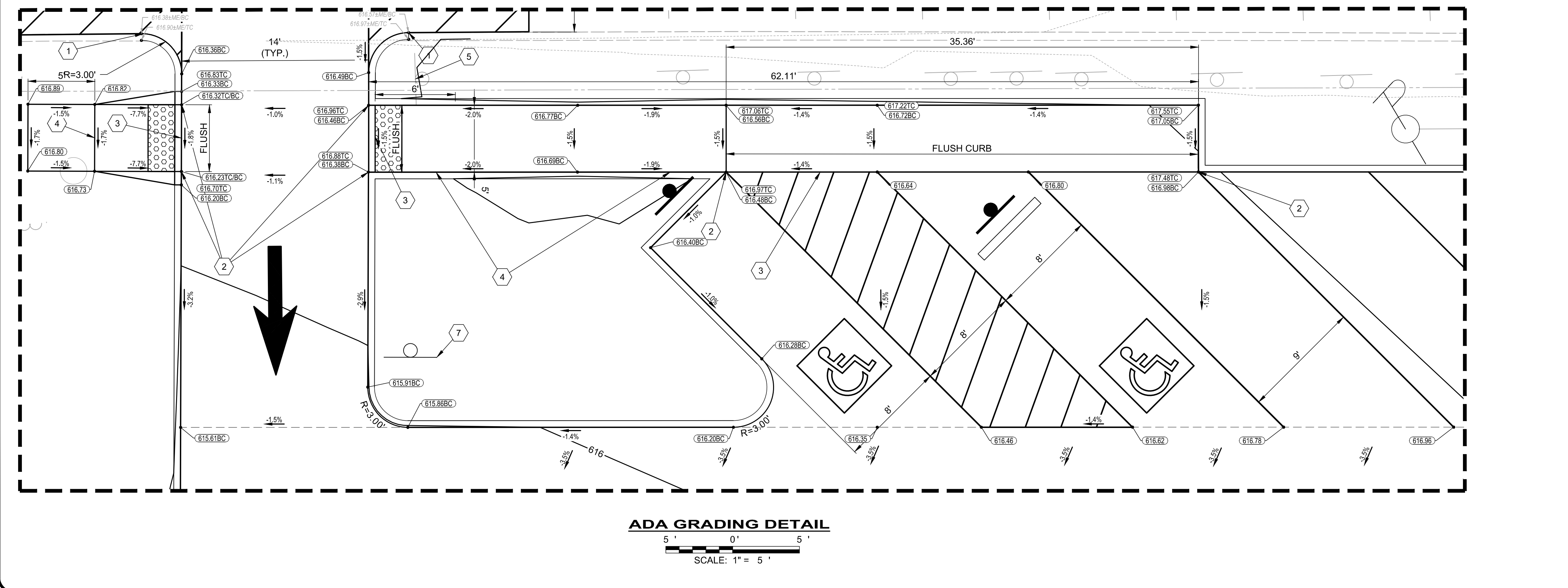


**GENERAL NOTES**

- GRAPHICAL SCREENING AND SHADING IS USED TO DE-EMPHASIZE EXISTING ITEMS AND SOME NEW IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK.
- PROPOSED DEMOLITION PLAN ITEMS ARE NOT SHOWN FOR CLARITY PURPOSES.
- SOME EXISTING AND PROPOSED UNDERGROUND AND OVERHEAD UTILITIES ARE NOT SHOWN FOR CLARITY PURPOSES.
- EXISTING AND PROPOSED TOPOGRAPHY ARE NOT SHOWN FOR CLARITY PURPOSES.
- PROPOSED BUILDINGS ARE SHOWN FOR REFERENCE ONLY. SEE SEPARATE ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS AND THE LOCATION OF FROST-FREE SLABS, FOOTINGS AND DOWNSPOUTS.
- HOUSES AND DRIVEWAYS ARE SHOWN FOR REFERENCE ONLY FOR THE GENERAL INTENT OF LOCATION AND ORIENTATION ON EACH LOT; IT IS NOT A HOUSE DESIGN OR HOUSE PLOT PLAN.
- SIDEWALKS IN OPEN SPACE AREAS, INTERSECTION CURB RAMPS, AND OTHER LOCATIONS AS PER PLAN SHALL BE CONSTRUCTED AS PART OF THESE PLANS. SIDEWALKS ALONG SUBLOT FRONTAGES ARE SHOWN FOR REFERENCE ONLY AND SHALL BE CONSTRUCTED BY HOME BUILDER AT TIME OF HOME CONSTRUCTION.
- PROPOSED LIGHT POLES ARE SHOWN FOR LOCATION AND OFFSET PURPOSES ONLY. SEE SEPARATE ELECTRICAL PLANS FOR COLOR, FIXTURE AND POLE TYPES, AND POLE FOUNDATION.
- PROPOSED DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.

**SHEET CODED NOTES**

- XXXXXX PROPOSED SPOT ELEVATION ABBREVIATIONS AS FOLLOWS:
  - TAGLESS - PROPOSED GRADE
  - BC - BOTTOM OF CURB AT PAVEMENT
  - TC - TOP OF CURB
  - TC/BC - FLUSH CURB
  - RIM - RIM ELEVATION OF STRUCTURE
- XXXXXME EXISTING SPOT ELEVATION/MEET EXISTING GRADE
- APPROXIMATE GRADING LIMIT
- VALLEY / GRADE BREAK VALLEY OR GRADE BREAK
- CATCH BASIN CURB INLET, AND CATCH BASIN
- STORM MANHOLE
- 1.0% or X:1 PROPOSED SLOPE
- 650 CONTOUR - MAJOR
- 649 CONTOUR - MINOR



DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			03/24/2026	WILLOWICK CITY HALL	03/24/2026	1"=20'	LMM	LMM	PAB

<b>WILLOWICK CITY HALL</b>	
<b>PARKING LOT IMPROVEMENTS</b>	
30435 LAKESHORE BLVD., WILLOWICK, OH 44095	
CITY OF WILLOWICK LAKE COUNTY, OHIO	
<b>BASE BID - GRADING &amp; DRAINAGE PLAN</b>	
PROJECT NO.	<b>32356</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>C0-08</b>
SHEET	OF
<b>10</b>	<b>17</b>



**verdantas**

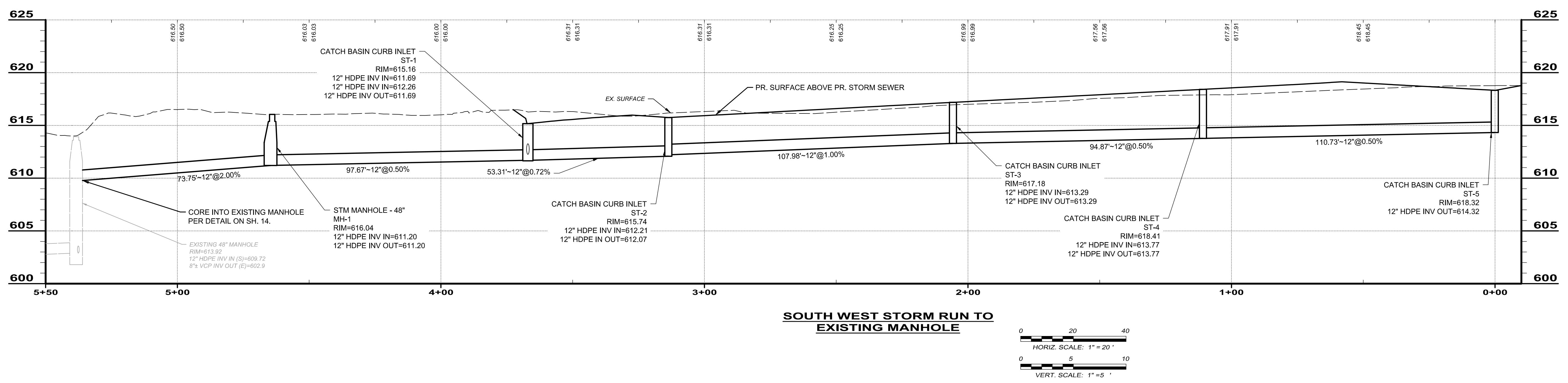
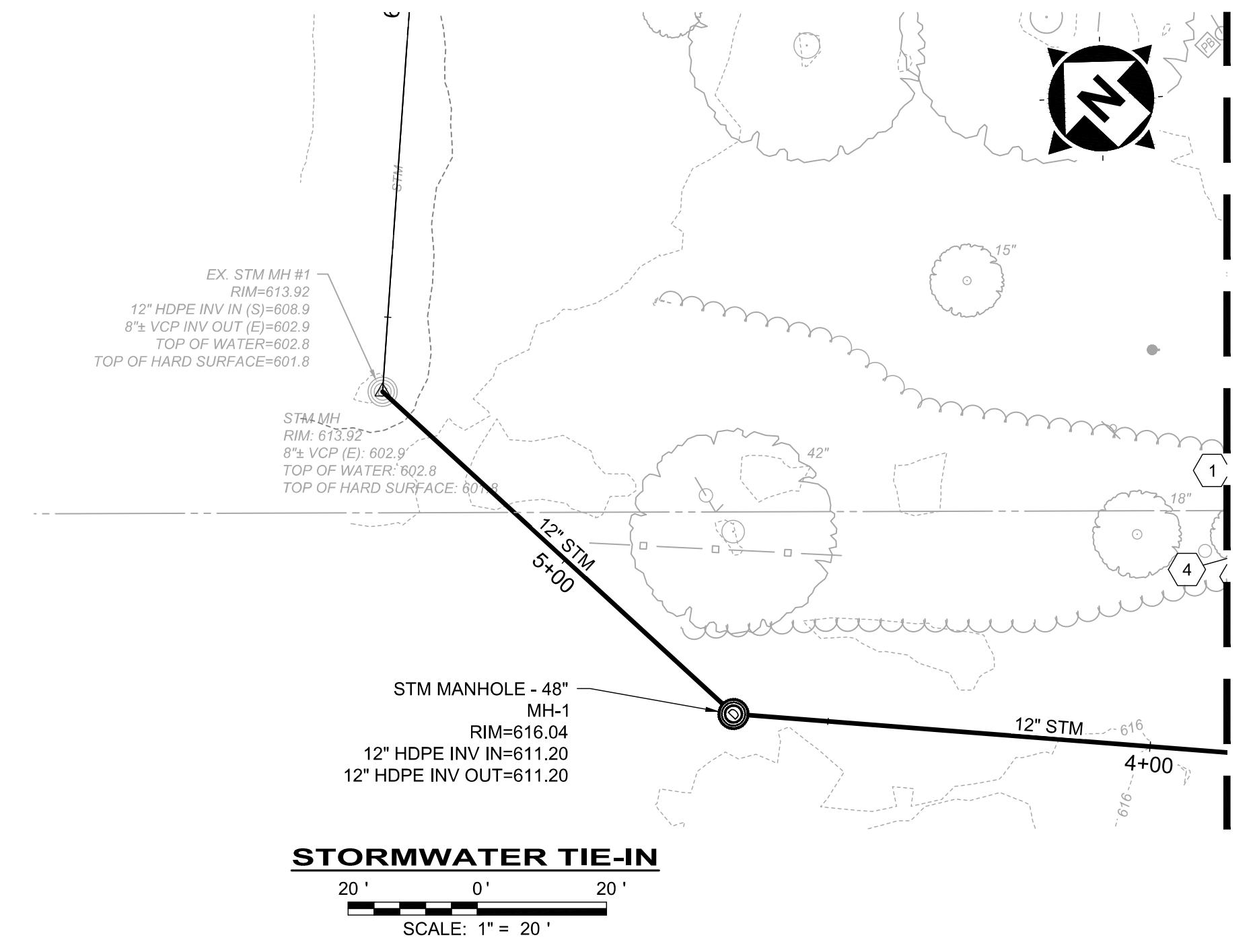
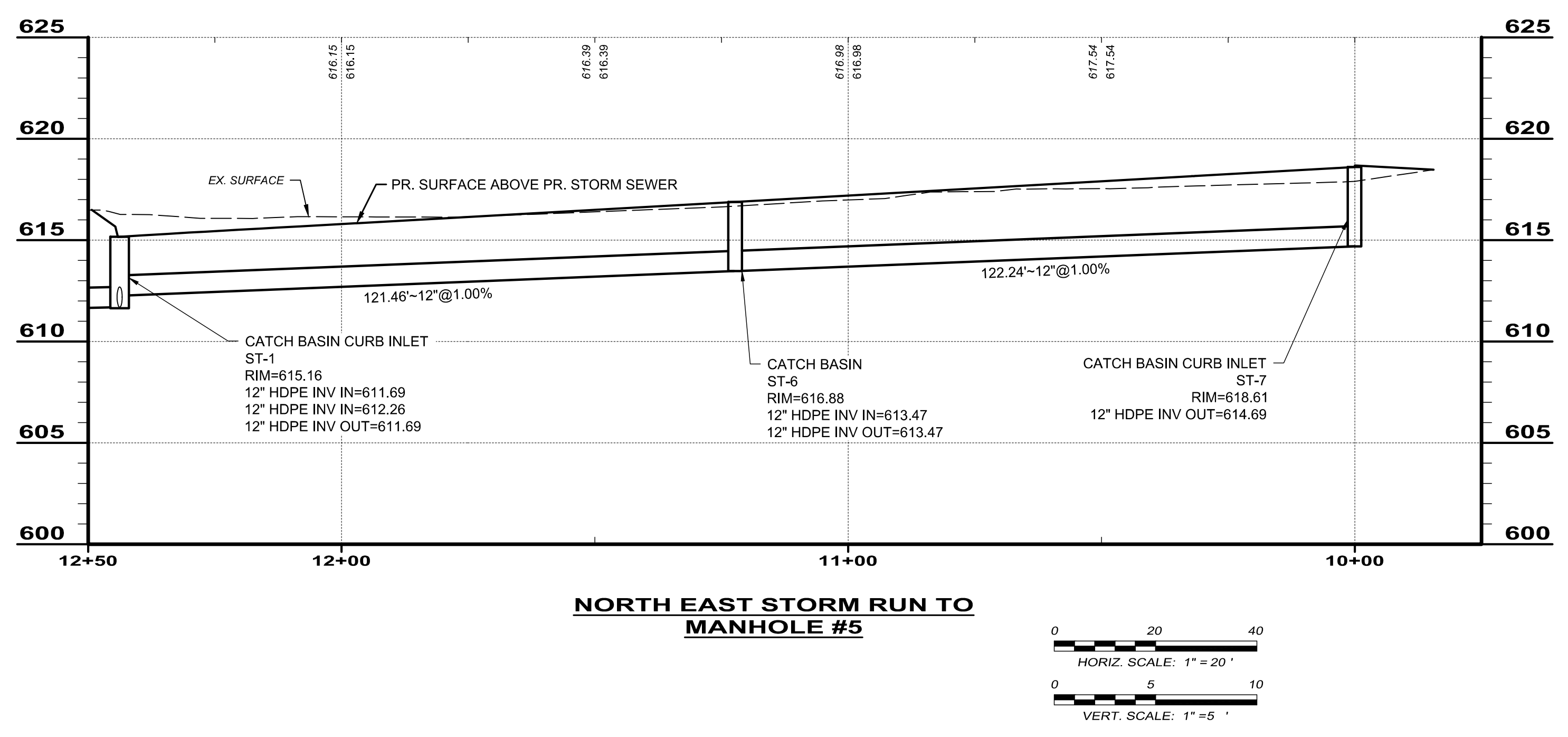
NO	REVISION	DATE

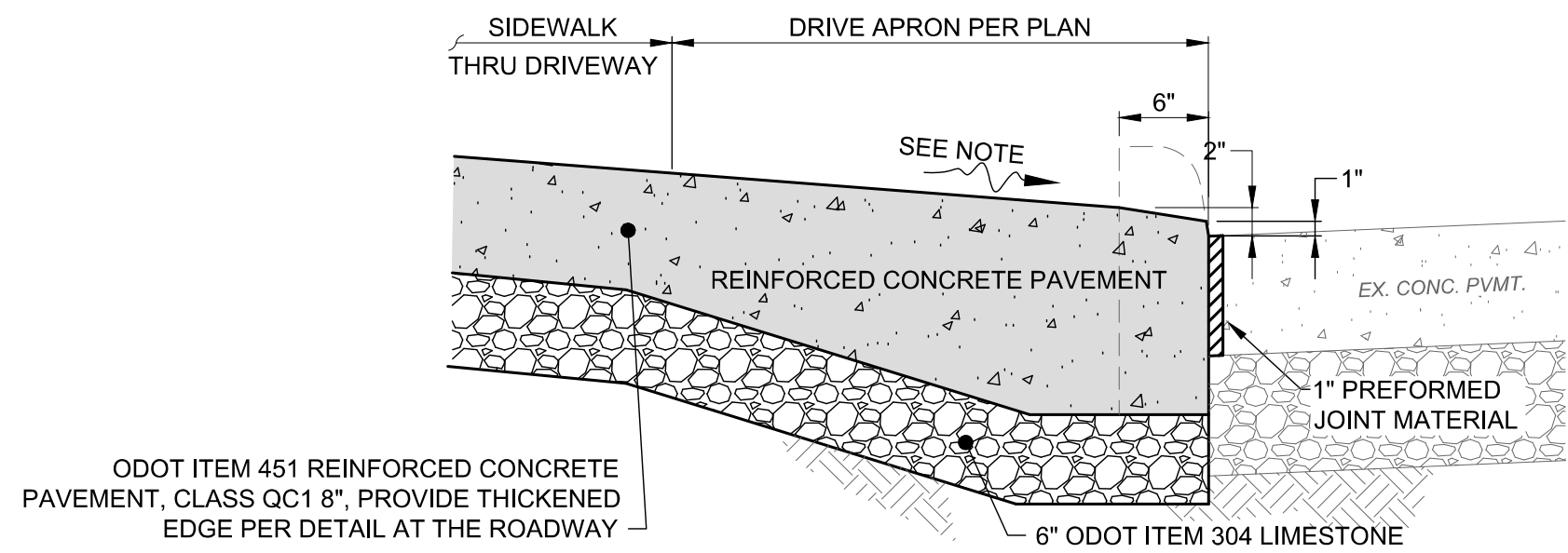
WILLOWICK CITY HALL  
 PARKING LOT IMPROVEMENTS  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK, OHIO  
 BASE BID - PARKING LOT  
 EXPANSION STORM  
 SEWER PROFILES

ISSUED FOR:	BID	NO
ISSUE DATE:	03/24/2026	
SCALE:	1"=20'	
DESIGNED BY:	LMM	
DRAWN BY:	LMM	
CHECKED BY:	PAB	

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-09
SHEET	11
OF	17

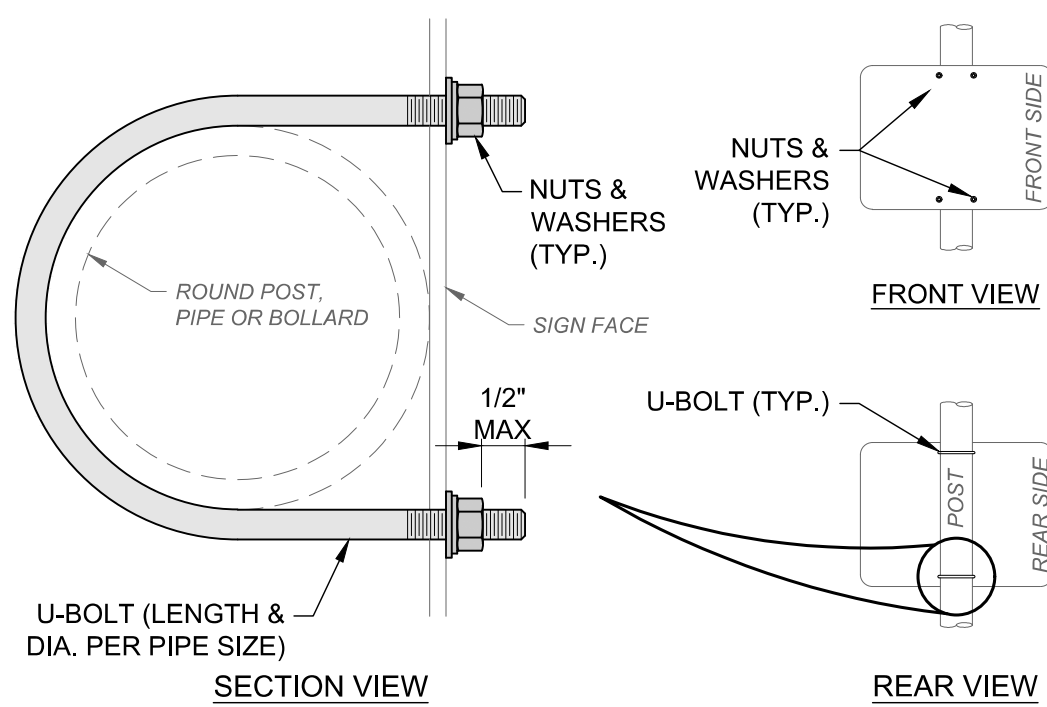
MATCH LINE: SEE SH. 10 FOR STORMWATER SYSTEM



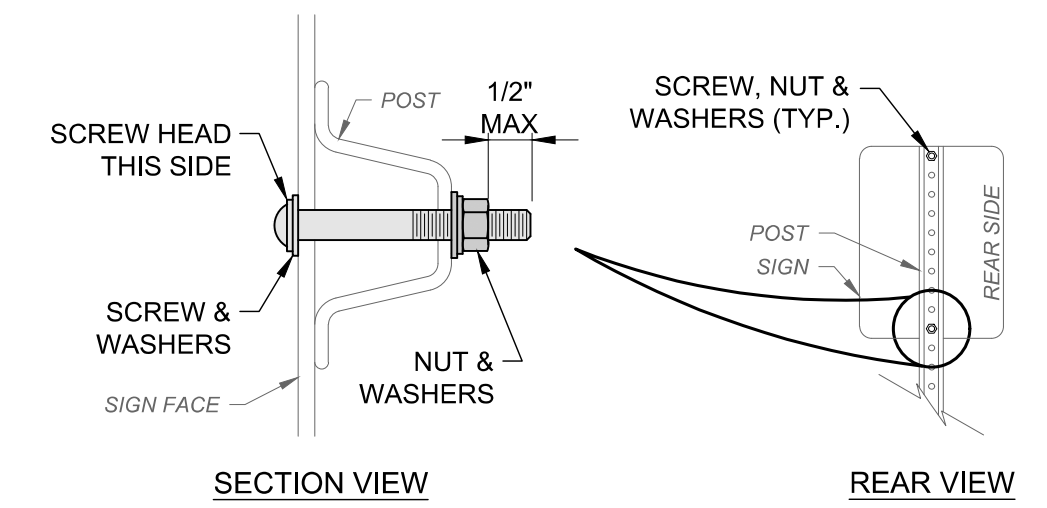


ODOT ITEM 451 REINFORCED CONCRETE PAVEMENT, CLASS QC1 8", PROVIDE THICKENED EDGE PER DETAIL AT THE ROADWAY

SECTION A-A



ATTACHED TO ROUND POST OR BOLLARD



ATTACHED TO U-CHANNEL POST

- NOTES:
1. CONCRETE SHALL BE ODOT ITEM 451, CLASS QC-1.
  2. THE DROP CURB SHALL BE HAND FORMED AT THE TIME THE CONCRETE APRON IS POURED.
  3. MINIMUM DRIVE APRON SLOPE PERMITTED IS 1/8"/FT. (1.00%) AND MAXIMUM IS 1"/FT. (8.33%). SEE GRADING PLAN FOR ACTUAL SLOPES AND ELEVATIONS.
  4. SEE SEPARATE DETAILS FOR ADDITIONAL REQUIREMENTS AND LAYOUT PLAN FOR ACTUAL THICKNESS AND DIMENSIONS.

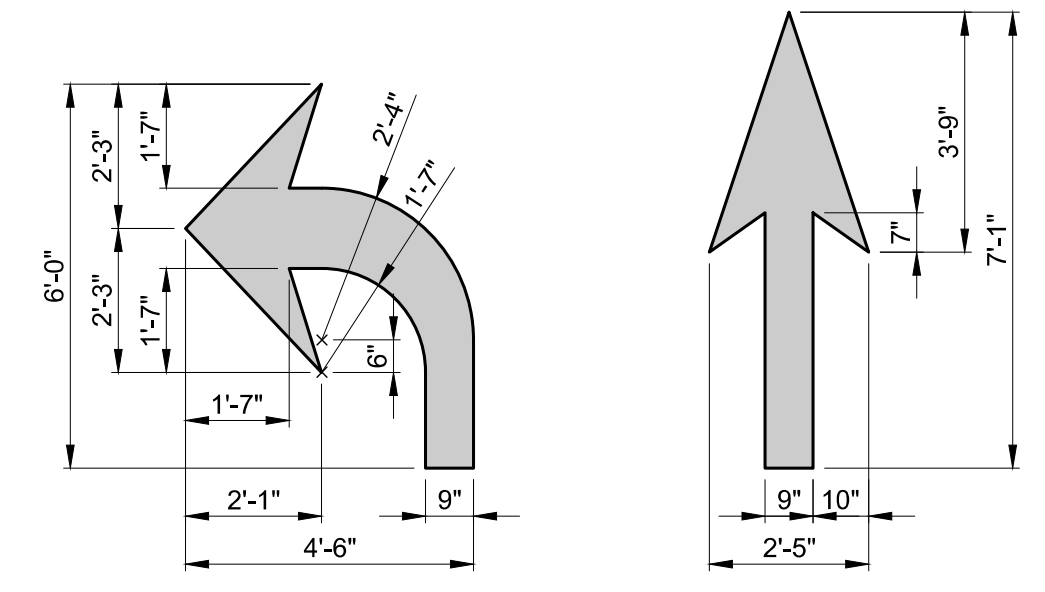
CONCRETE DRIVE APRON W/ DROP VERTICAL CURB AT EX. CONCRETE PAVEMENT DETAIL

SCALE: NONE

- NOTES:
1. SECURE SIGN TO U-CHANNEL POST USING (2) SETS OF: (1) 5/16"Ø GALVANIZED STEEL PAN HEAD MACHINE SCREW; (1) GALVANIZED HEX NUT; (2) GALVANIZED STEEL WASHERS; AND (2) NYLON WASHERS.
  2. SECURE SIGN TO ROUND POST, PIPE OR BOLLARD USING (2) SETS OF APPLICABLE SIZED: (1) 5/16"Ø GALVANIZED STEEL U-BOLT; (2) GALVANIZED HEX NUTS; (2) GALVANIZED STEEL WASHERS; AND (2) NYLON WASHERS.

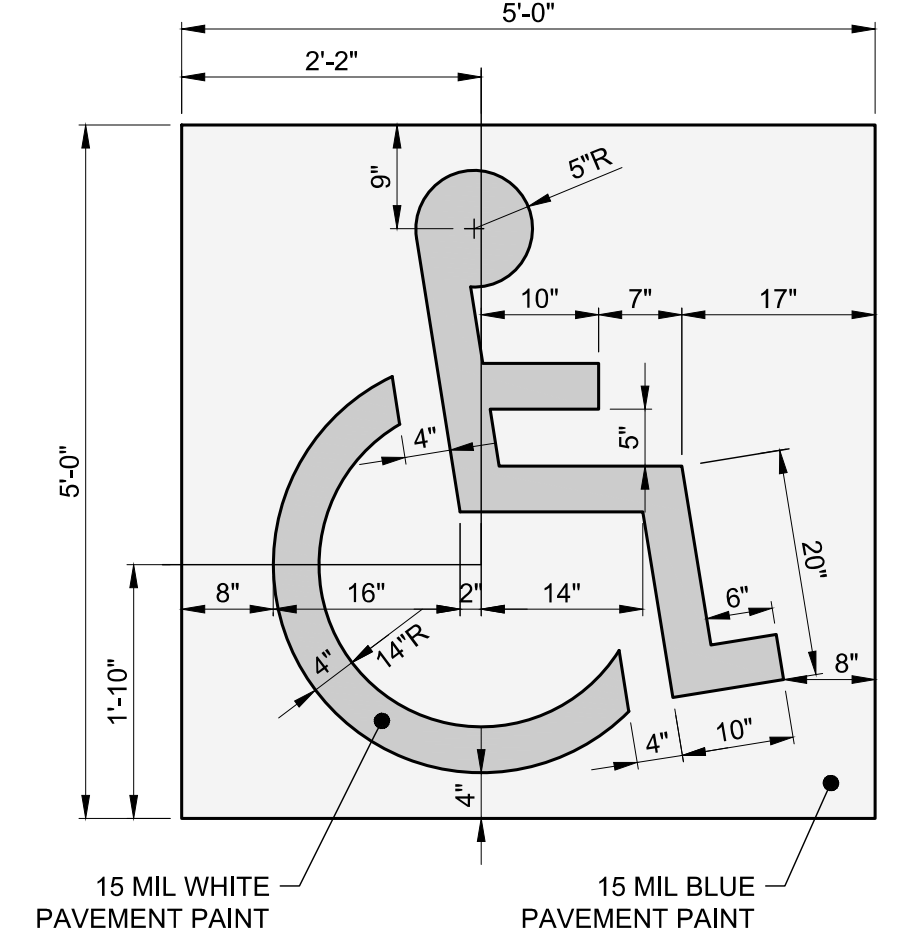
SIGN PANEL ATTACHMENT DETAIL

SCALE: NONE



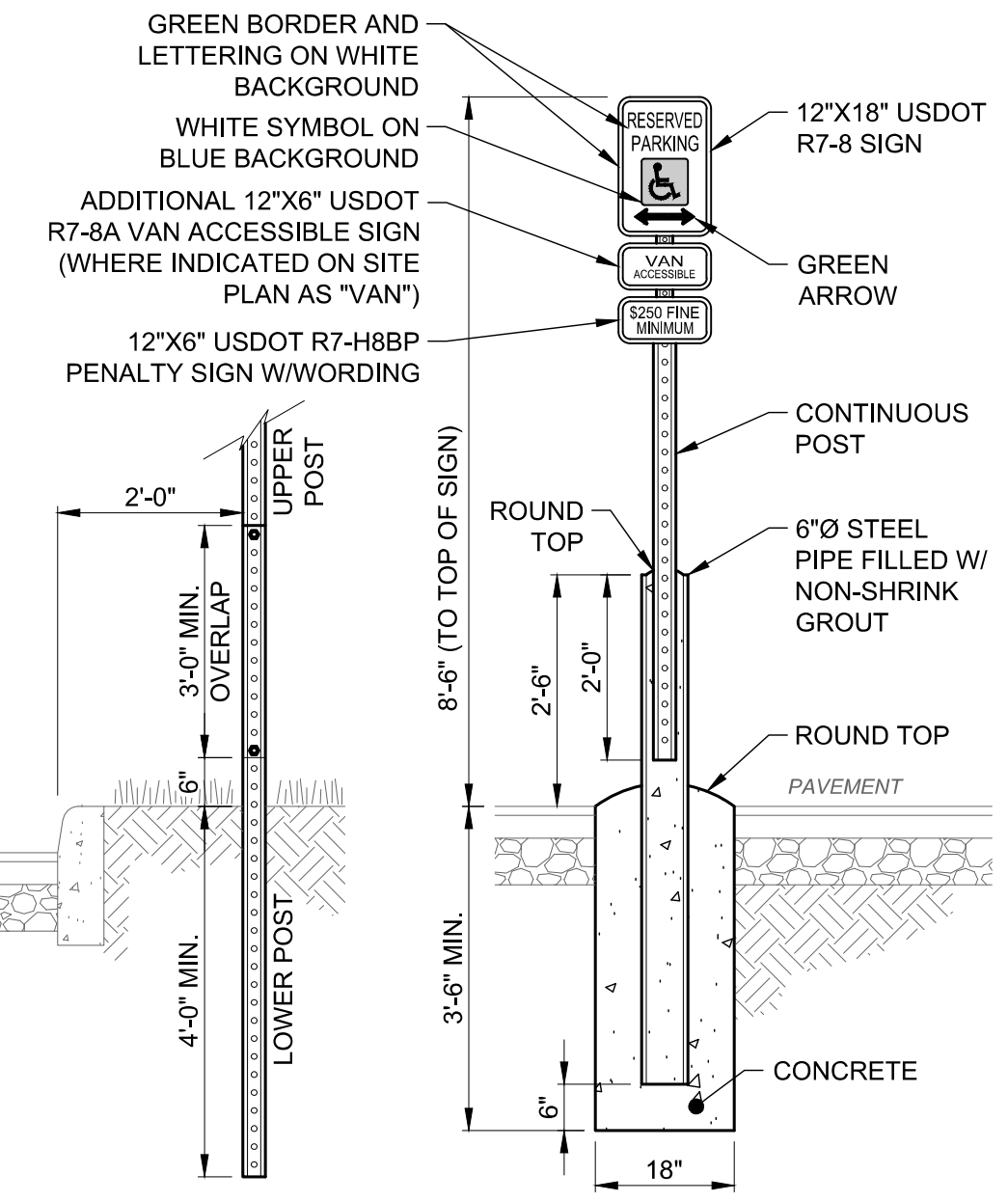
TURN & STRAIGHT ARROWS (6 FT) DETAIL

SCALE: NONE



ACCESSIBLE PARKING SYMBOL DETAIL

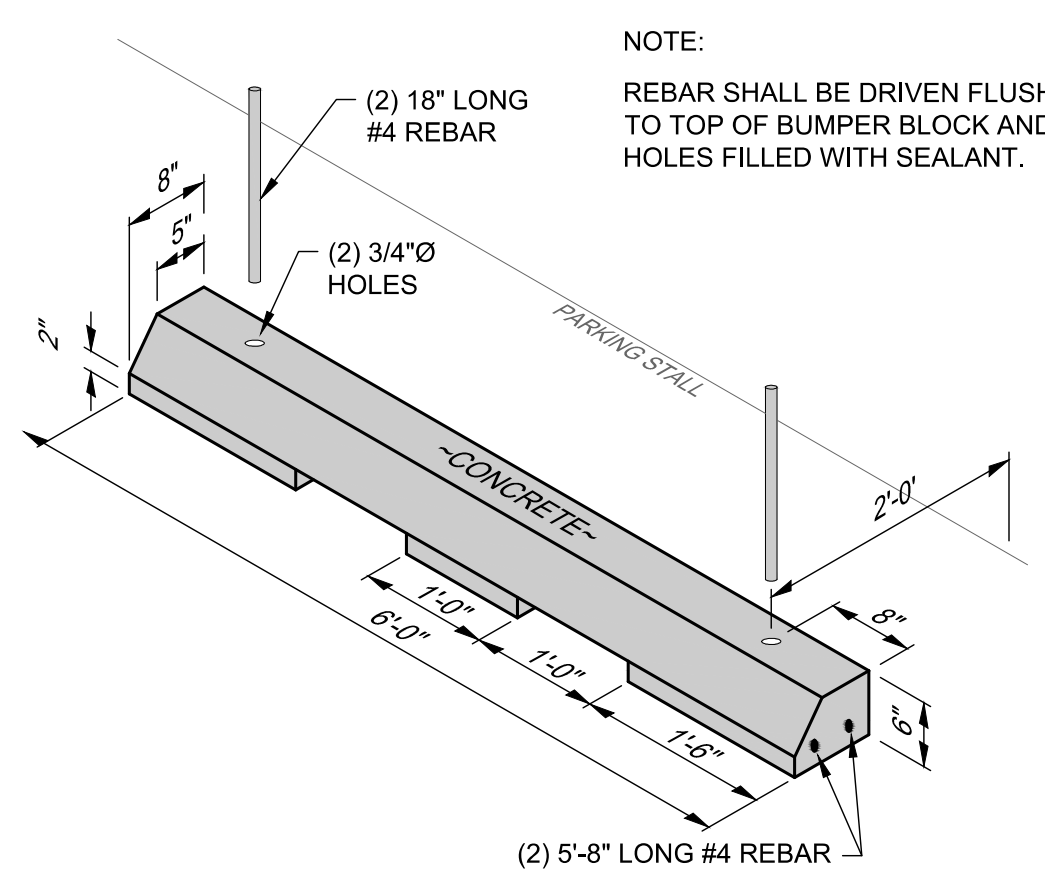
SCALE: NONE



'ACCESSIBLE PARKING' SIGN W/ POST DETAIL

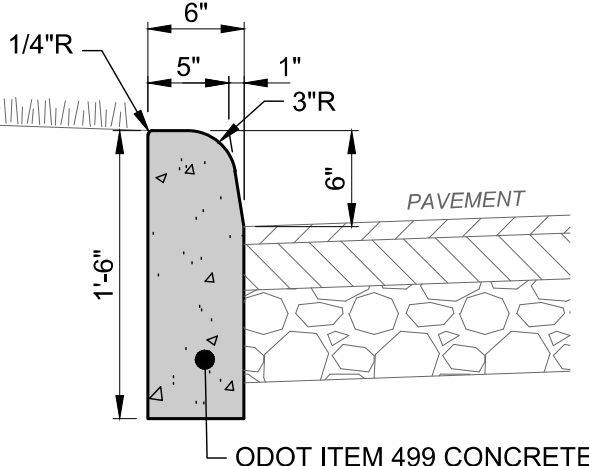
SCALE: NONE

- NOTES:
1. ALL CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
  2. POST SHALL BE 2 LB/FT GALVANIZED STEEL U-CHANNEL WITH 3/8" HOLES ON 1" CENTERS.
  3. PAINT STEEL PIPE TRAFFIC YELLOW OR COLOR PER PLAN.
  4. LOCATE SIGNS ON BOTH SIDES WHERE ACCESSIBLE PARKING STALLS FACE EACH OTHER.



6' CONCRETE PARKING BLOCK DETAIL

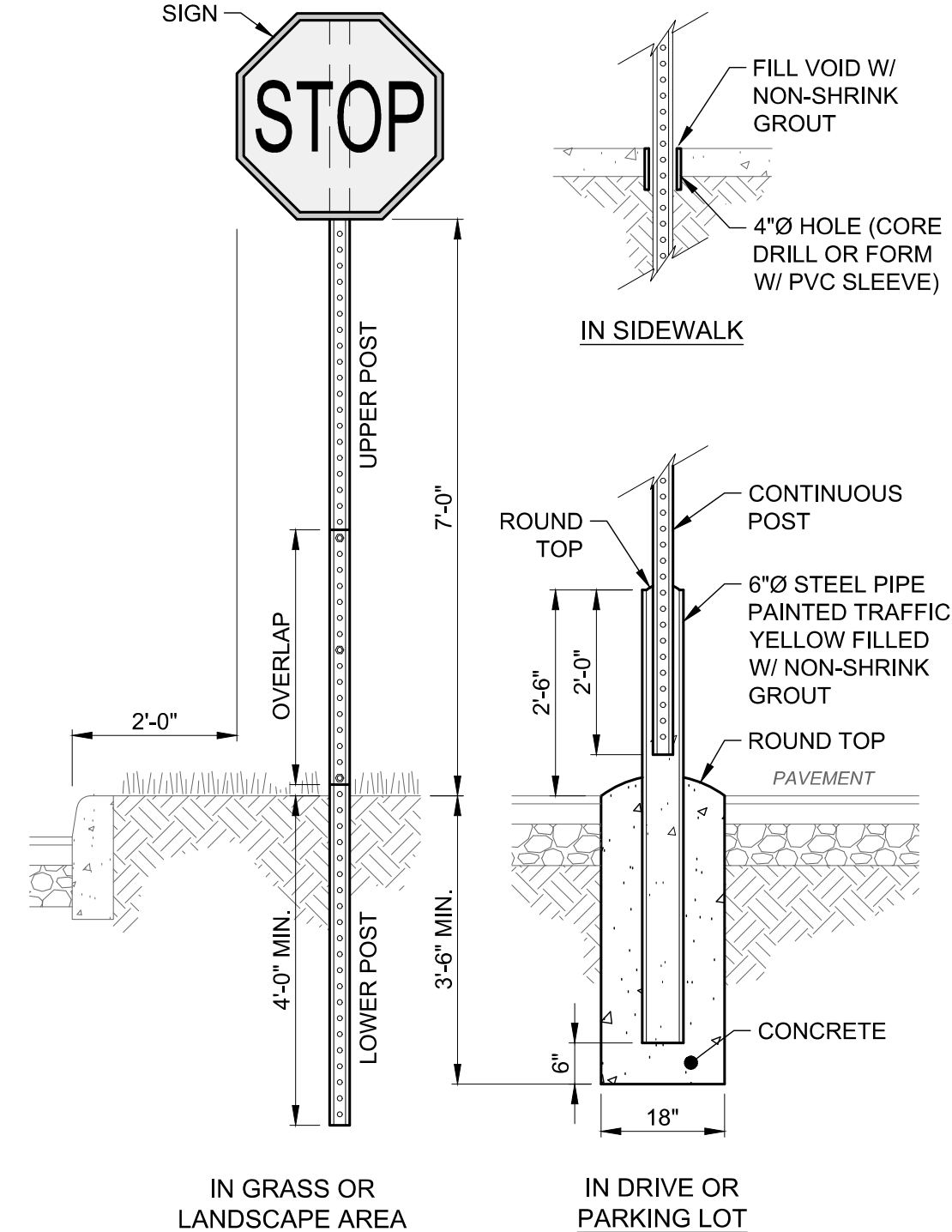
SCALE: NONE



(ODOT TYPE 6) 6" VERTICAL CURB DETAIL

SCALE: NONE

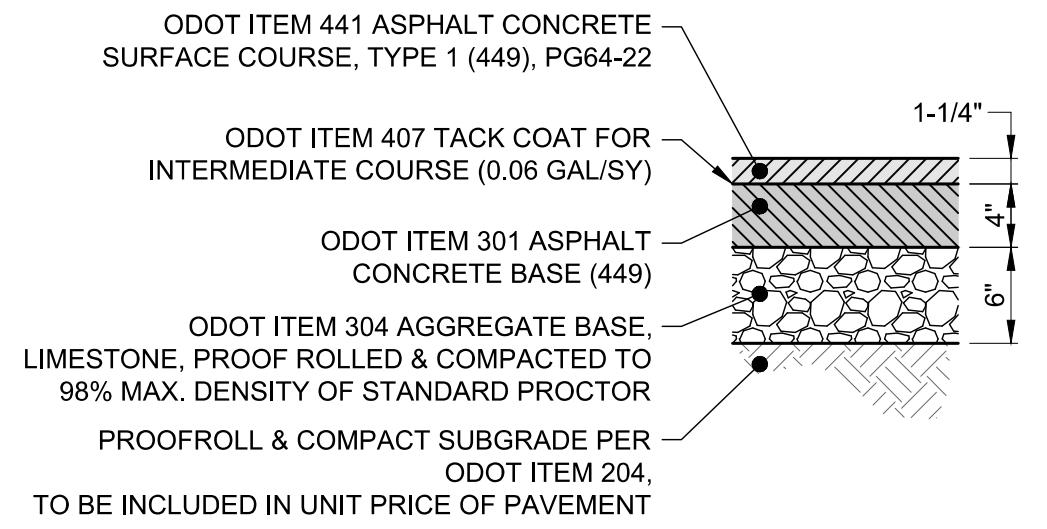
- NOTES:
1. INSTALL 1/2" PREFORMED JOINT MATERIAL AND USE DOWELS INTO COLD JOINTS TOP AND BOTTOM WHERE NEW CURB MEETS EXISTING CURB.
  2. PROVIDE CONTRACTION JOINTS AT 15 O.C.
  3. APPLY LIQUID-MEMBRANE CURING COMPOUND.



SIGN POST DETAIL

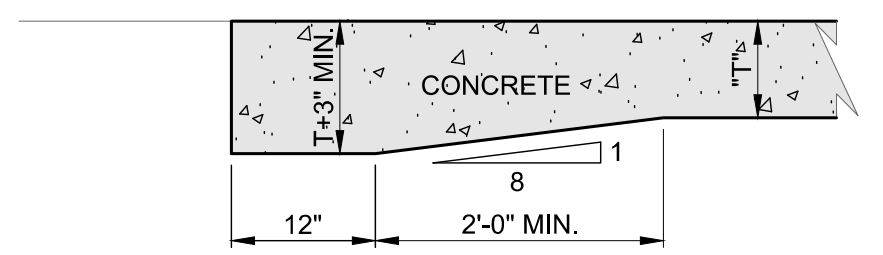
SCALE: NONE

- NOTES:
1. POSTS SHALL BE 2 LB/FT GALVANIZED STEEL U-CHANNEL WITH 3/8" HOLES ON 1" CENTERS.
  2. ALL SIGNS SHALL BE PLACED 90° TO THE ROADWAY TRAVEL DIRECTION.
  3. "STOP" SIGN SHOWN FOR REFERENCE. SEE LAYOUT PLAN FOR SPECIFIC TYPE OF SIGN(S) TO BE USED.



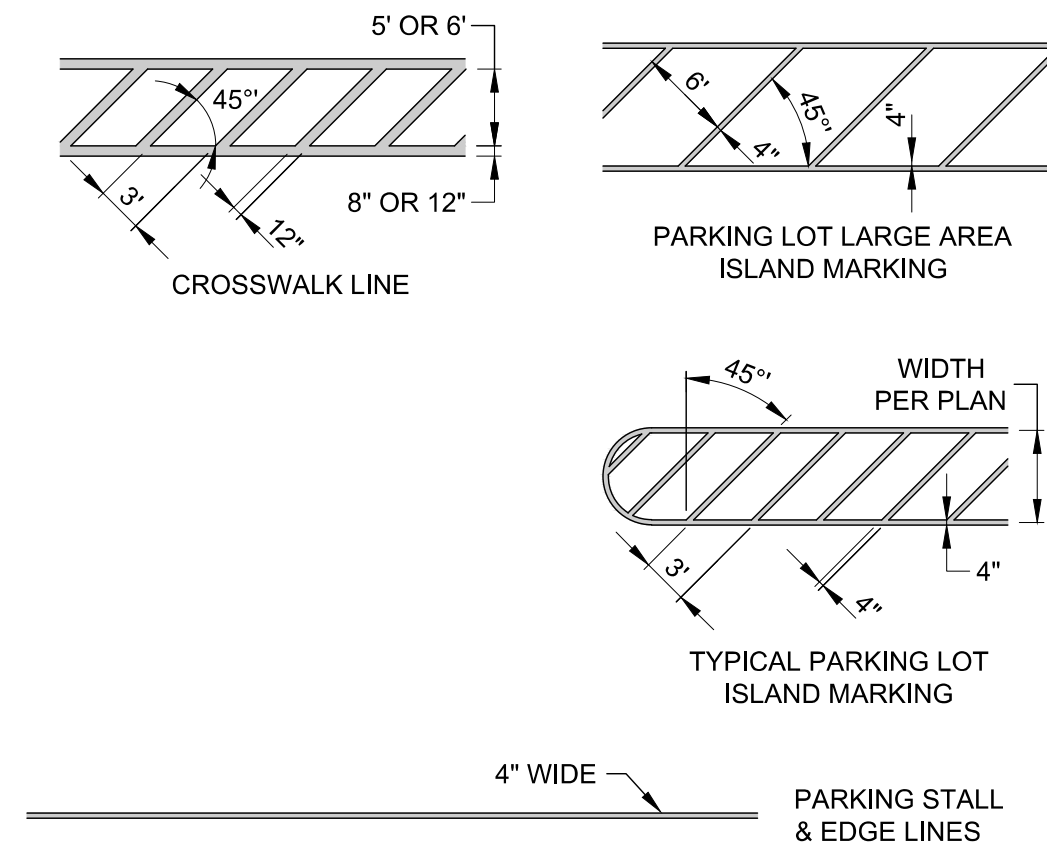
TYPE "C" PAVEMENT (ASPHALT), PARKING LOT

SCALE: NONE



CONCRETE PAVEMENT THICKENED EDGE DETAIL

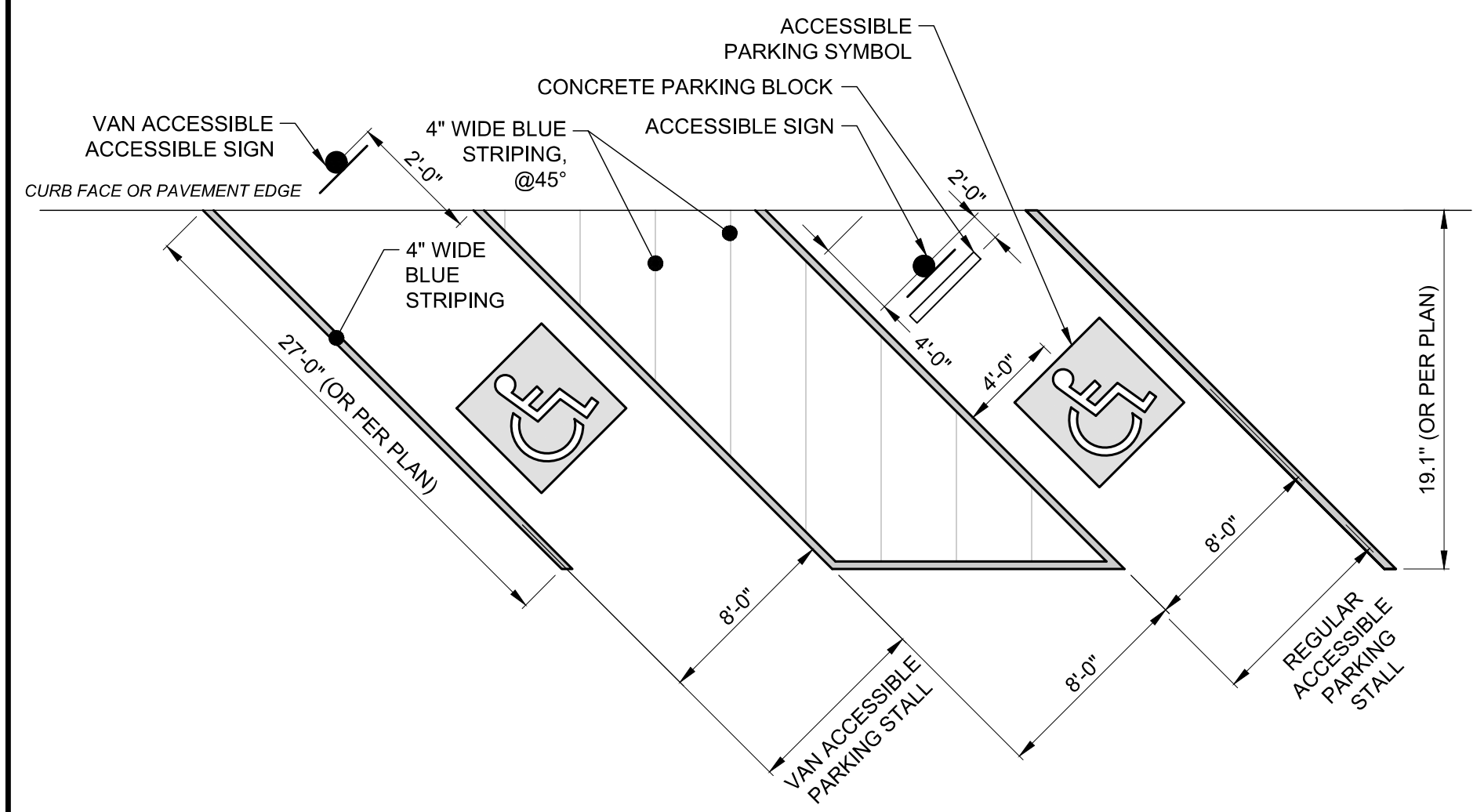
SCALE: NONE



PAVEMENT MARKING DETAIL

SCALE: NONE

- NOTES:
1. PAINT COLORS SHALL BE AS FOLLOWS:
    - A. WHITE OR YELLOW, AS PER PLAN: PARKING STALL LINES AND ISLAND MARKINGS.
    - B. WHITE: WORDS, LANE ARROWS, CHANNELIZING LINES, TRANSVERSE LINES, DOTTED LINES, EDGE LINES, STOP LINES AND CROSSWALKS.
    - C. BLUE: PARKING STALL LINES AND ISLAND STRIPING TO DESIGNATE ADA ACCESSIBILITY.
  2. THIS DETAIL IS FOR REFERENCE ONLY. SEE PLANS AND APPLICABLE DETAILS FOR TYPES, LOCATIONS AND SIZES.



ACCESSIBLE PARKING LAYOUT DETAIL

SCALE: NONE

- NOTES:
1. THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE LAYOUT PLAN FOR ACTUAL CONFIGURATIONS AND NOT ALL ITEMS SHOWN MAY APPLY.
  2. SEE SEPARATE DETAILS FOR SIGNS, ACCESSIBLE PARKING SYMBOL AND BUMPER BLOCK.

DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			03/24/2026 <td>WILLOWICK CITY HALL PARKING LOT IMPROVEMENTS</td> <td></td> <td></td> <td></td> <td></td> <td></td>	WILLOWICK CITY HALL PARKING LOT IMPROVEMENTS					

WILLOWICK CITY HALL  
PARKING LOT IMPROVEMENTS  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
CITY OF WILLOWICK  
LAKE COUNTY, OHIO  
STANDARD DETAILS - 1

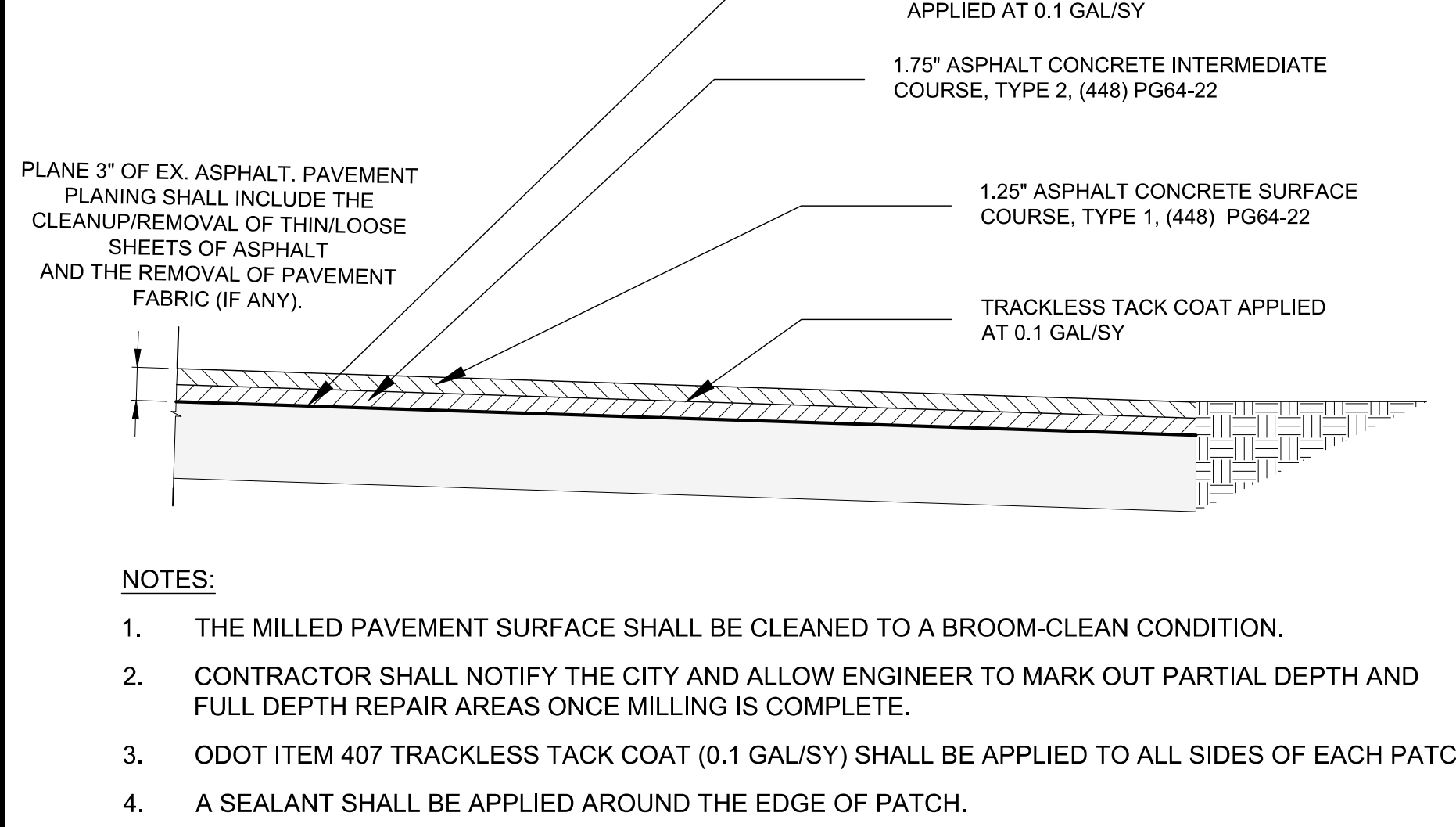
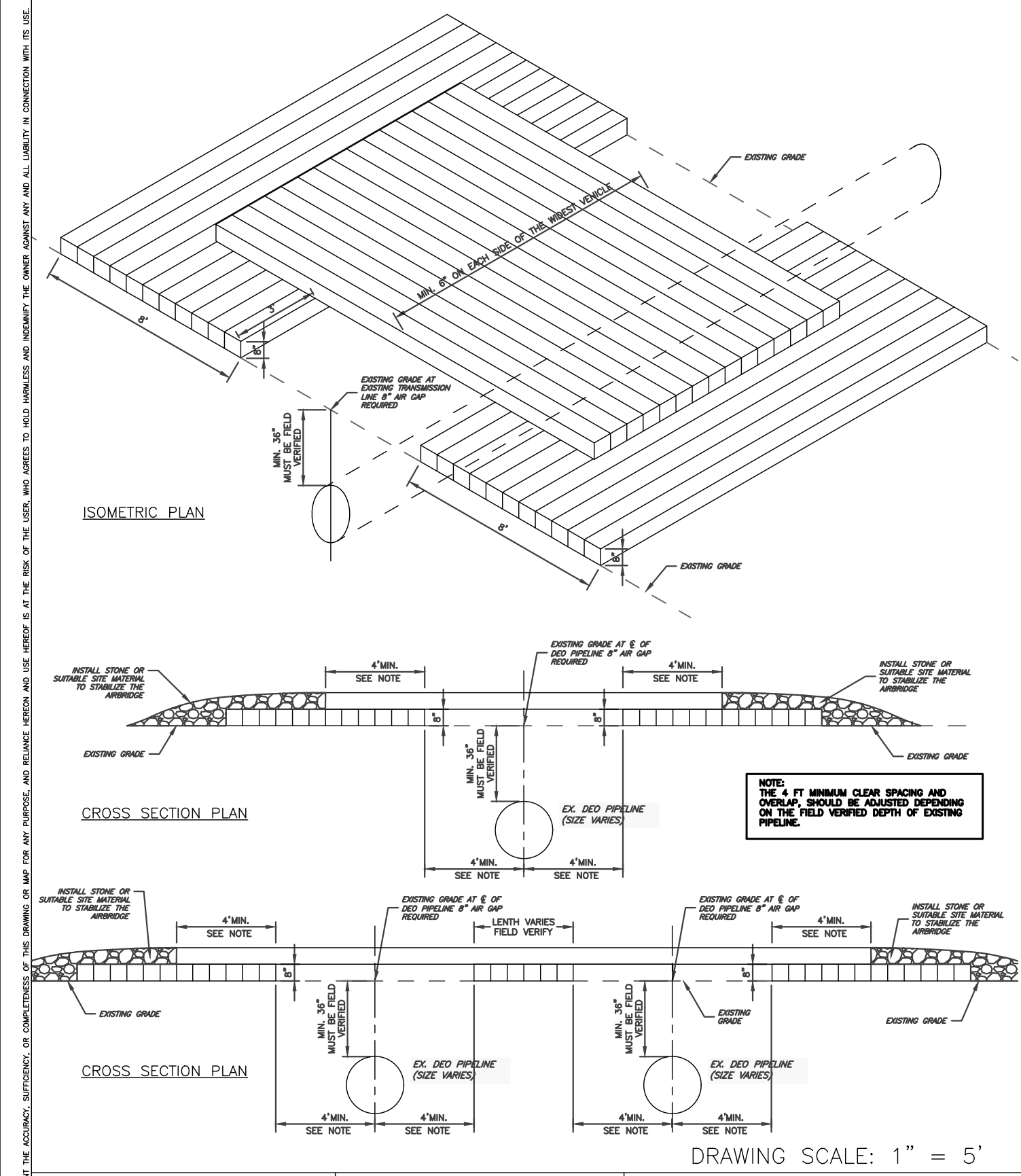
PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-10
SHEET	12
OF	17

DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			03/24/2026	WILLOWICK CITY HALL			LMM	LMM	PAB

WILLOWICK CITY HALL  
PARKING LOT IMPROVEMENTS  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
CITY OF WILLOWICK  
LAKE COUNTY, OHIO

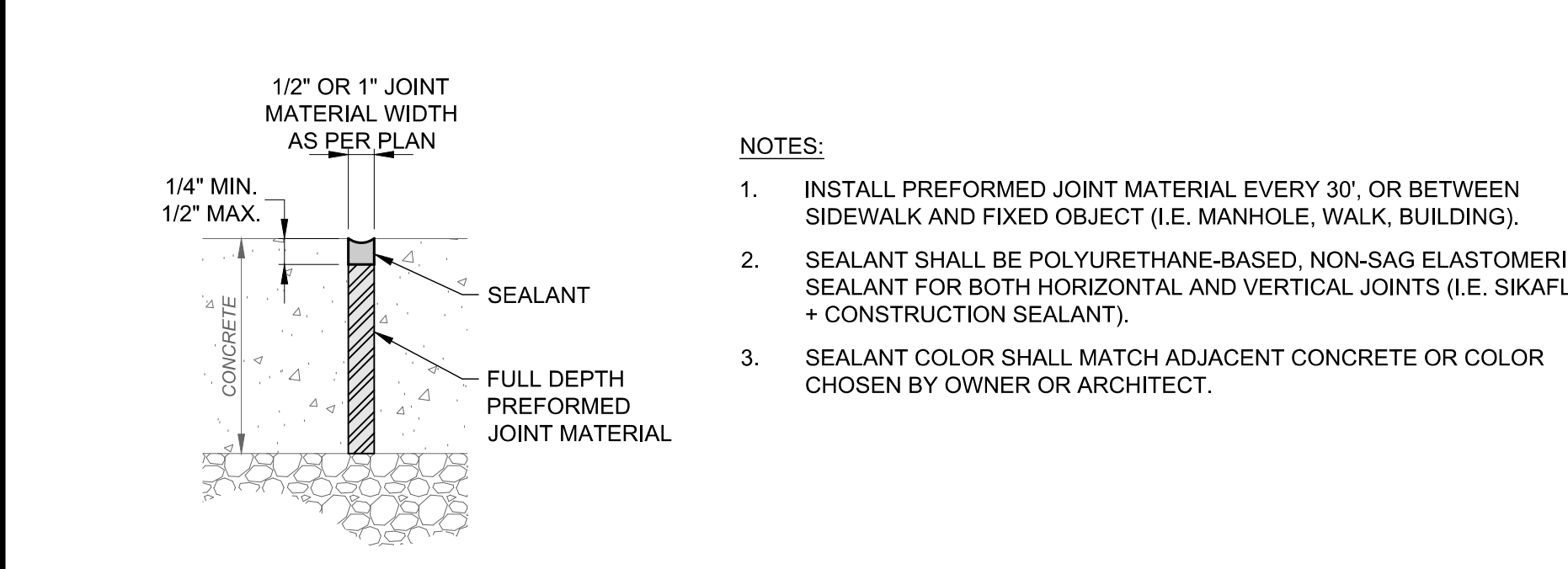
STANDARD DETAILS - 3

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-11
SHEET	13
OF	17



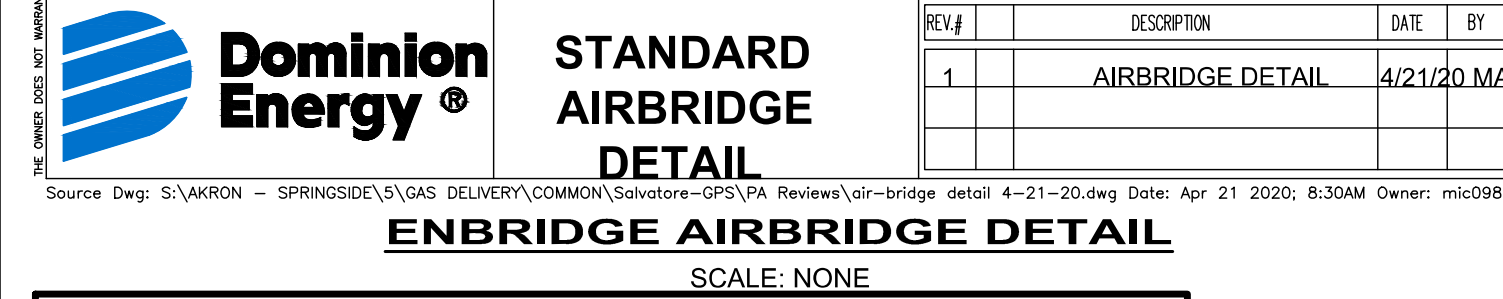
**PAVEMENT PLANING**  
NOT TO SCALE

- NOTES:
- THE MILLED PAVEMENT SURFACE SHALL BE CLEANED TO A BROOM-CLEAN CONDITION.
  - CONTRACTOR SHALL NOTIFY THE CITY AND ALLOW ENGINEER TO MARK OUT PARTIAL DEPTH AND FULL DEPTH REPAIR AREAS ONCE MILLING IS COMPLETE.
  - ODOT ITEM 407 TRACKLESS TACK COAT (0.1 GAL/SY) SHALL BE APPLIED TO ALL SIDES OF EACH PATCH.
  - A SEALANT SHALL BE APPLIED AROUND THE EDGE OF PATCH.



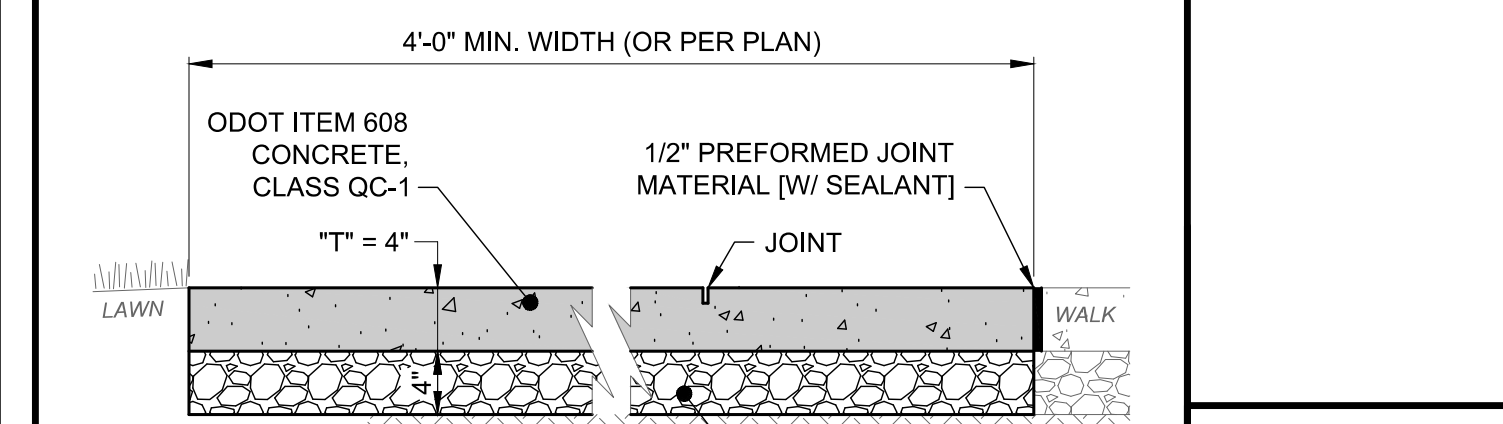
**EXPANSION JOINT W/ SEALANT DETAIL**  
SCALE: NONE

- NOTES:
- INSTALL PREFORMED JOINT MATERIAL EVERY 30' OR BETWEEN SIDEWALK AND FIXED OBJECT (I.E. MANHOLE, WALK, BUILDING).
  - SEALANT SHALL BE POLYURETHANE-BASED, NON-SAG ELASTOMERIC SEALANT FOR BOTH HORIZONTAL AND VERTICAL JOINTS (I.E. SIKAFLEX + CONSTRUCTION SEALANT).
  - SEALANT COLOR SHALL MATCH ADJACENT CONCRETE OR COLOR CHOSEN BY OWNER OR ARCHITECT.



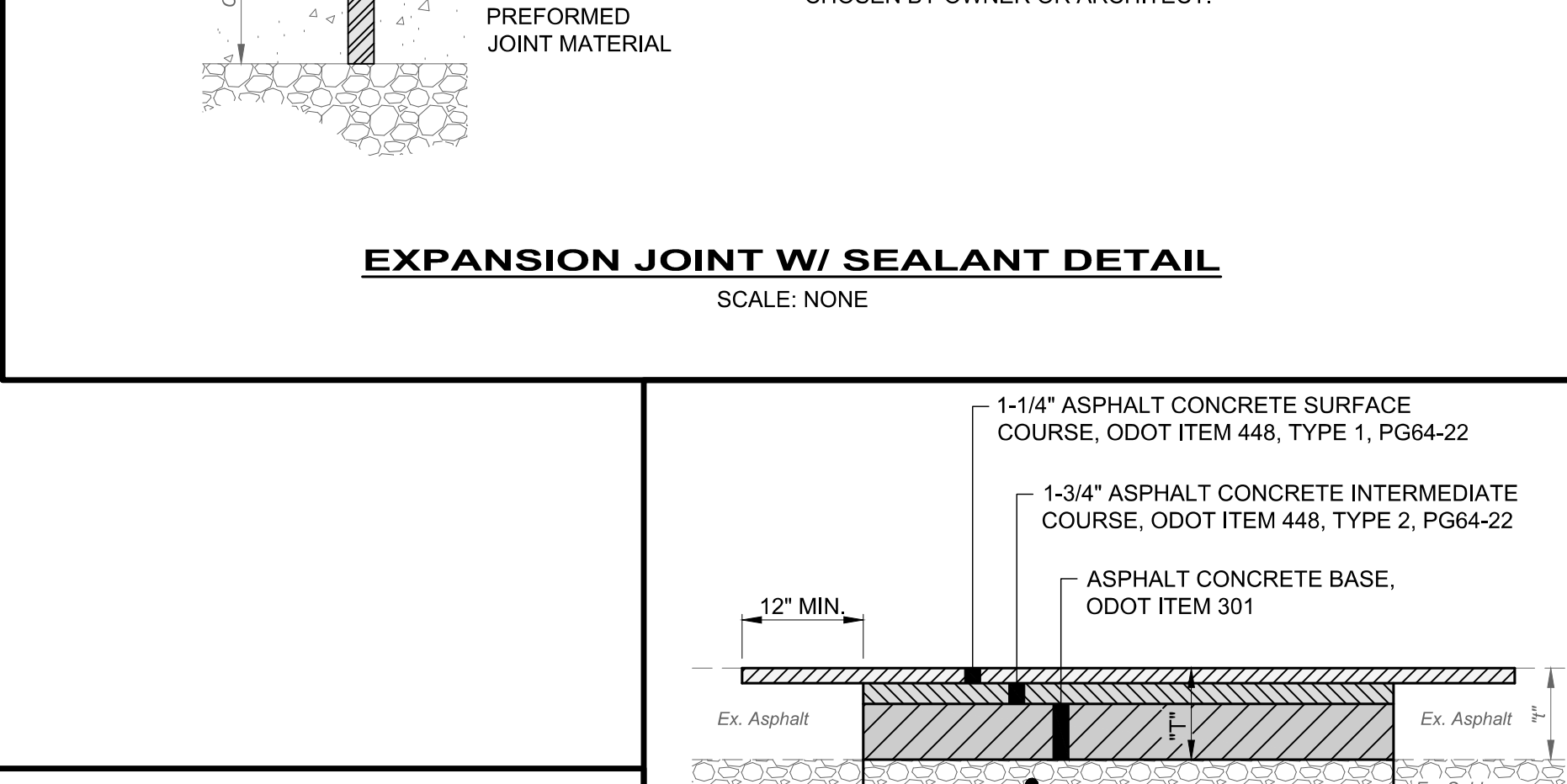
**CONCRETE WALK DETAIL**  
SCALE: NONE

- NOTES:
- THIS DETAIL SHOWS A 4\"/>



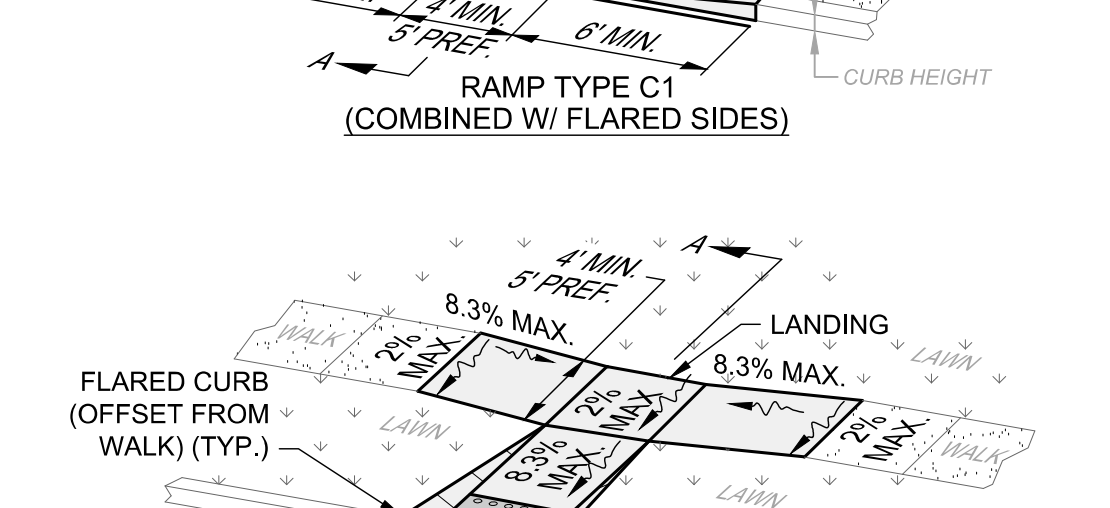
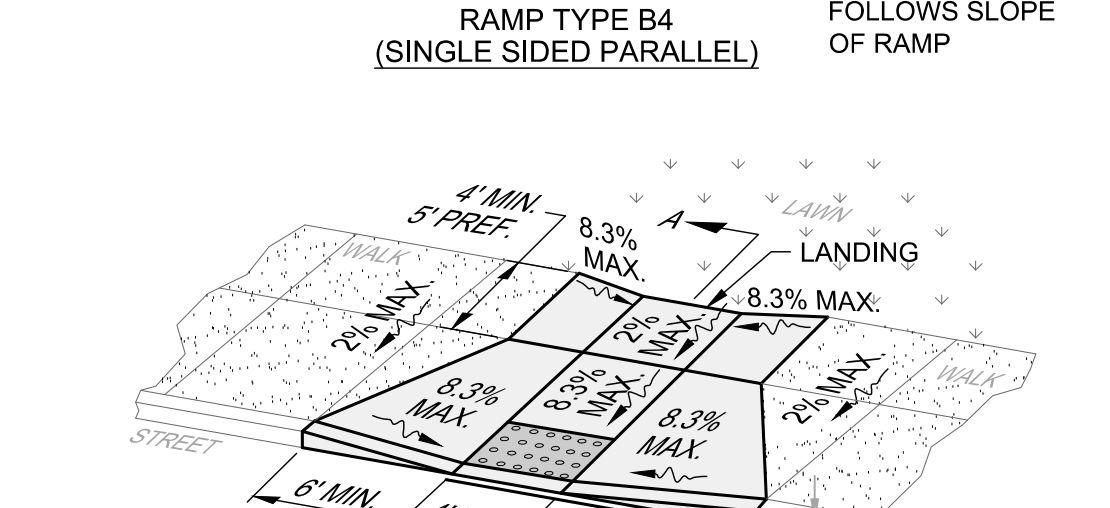
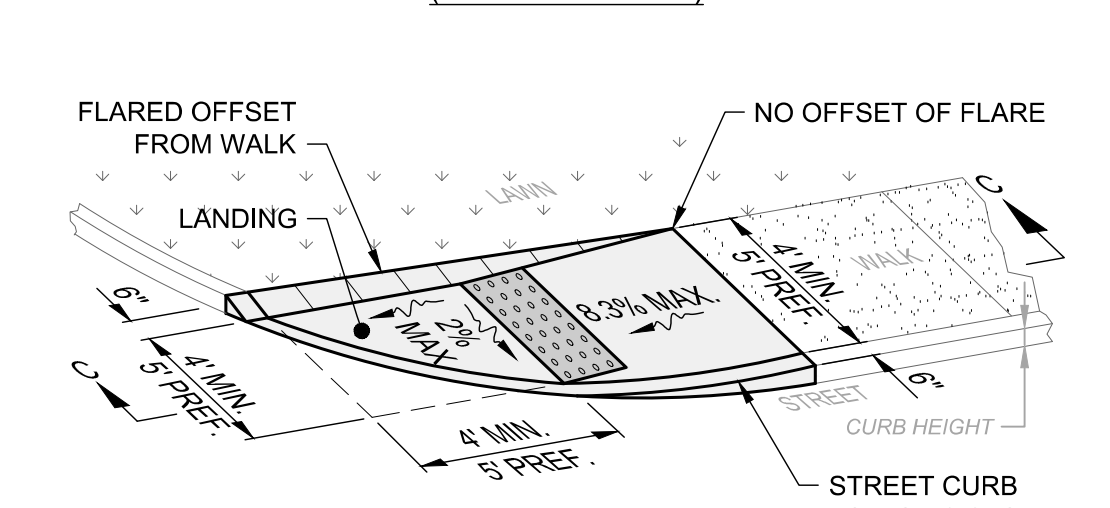
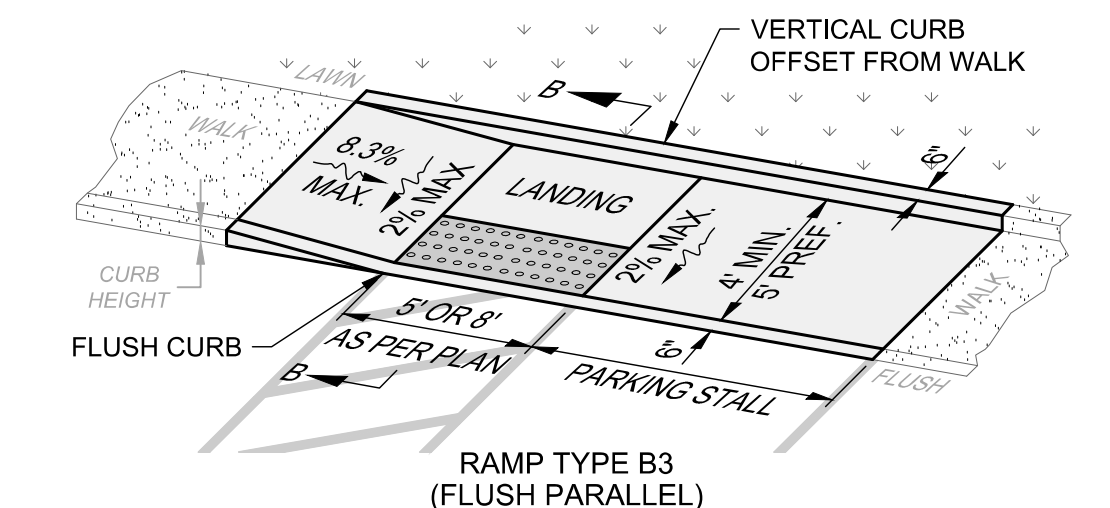
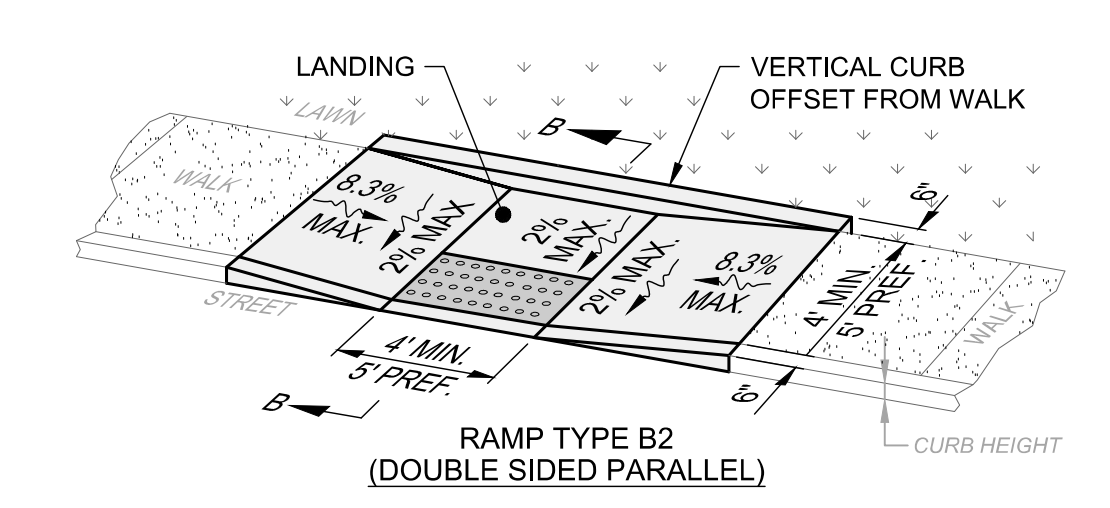
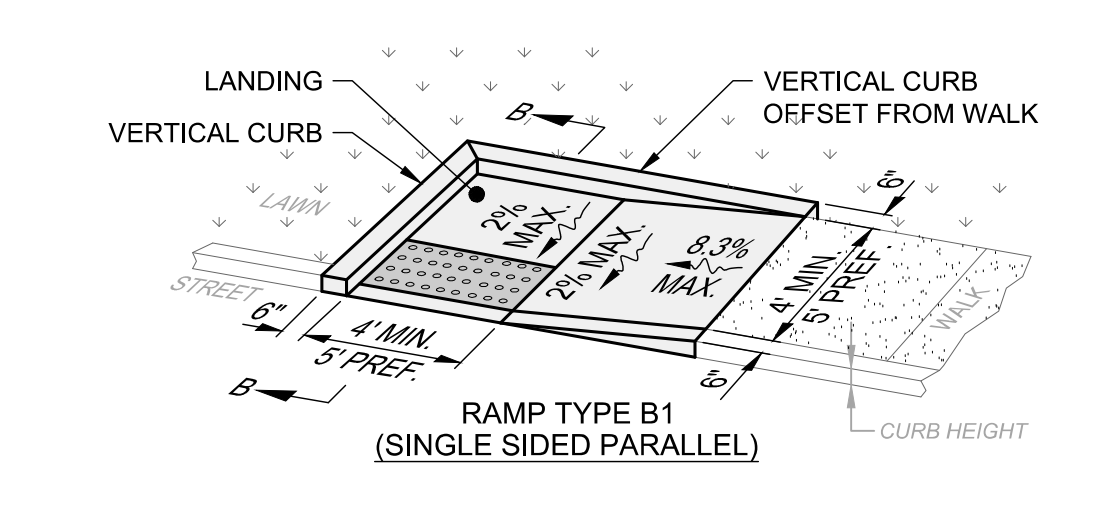
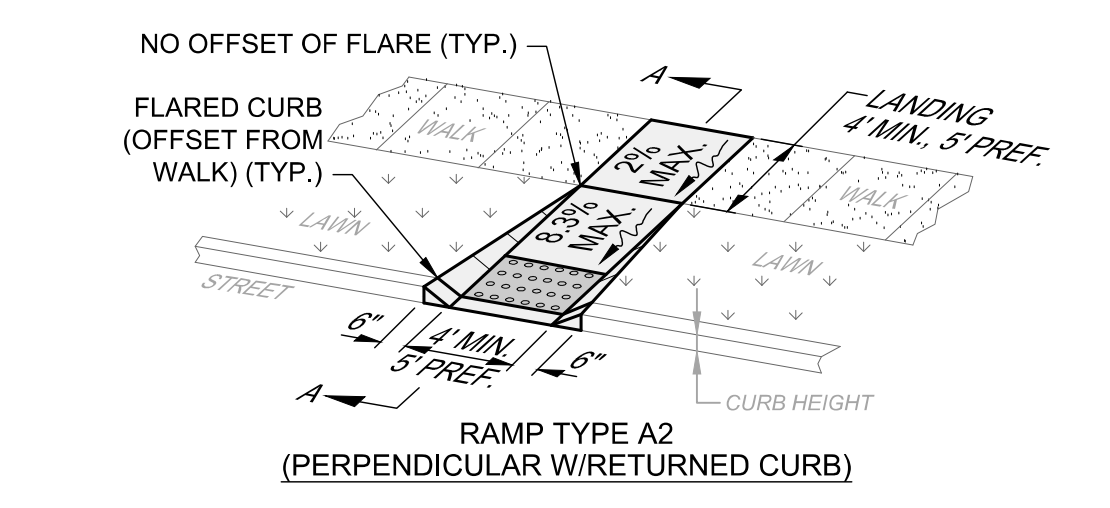
**ASPHALT PAVEMENT OVERLAY BUTT JOINT DETAIL**  
SCALE: NONE

- NOTES:
- BOTH THE EXISTING AND MILLED BASE PAVEMENT SHALL BE CLEANED TO A BROOM-CLEAN CONDITION.
  - TACK COAT SHALL BE APPLIED TO THE EXISTING ASPHALT SURFACE AND ALL SIDES OF PATCH.
  - APPLY ODOT ITEM 705.04 HOT APPLIED JOINT SEALER ALONG ALL EDGES WHERE NEW ASPHALT MEETS EXISTING ASPHALT.



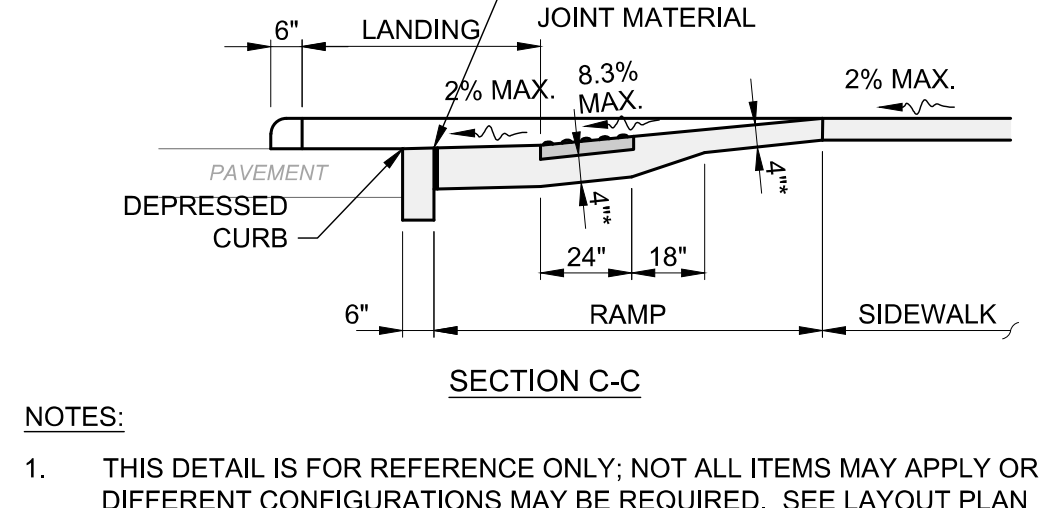
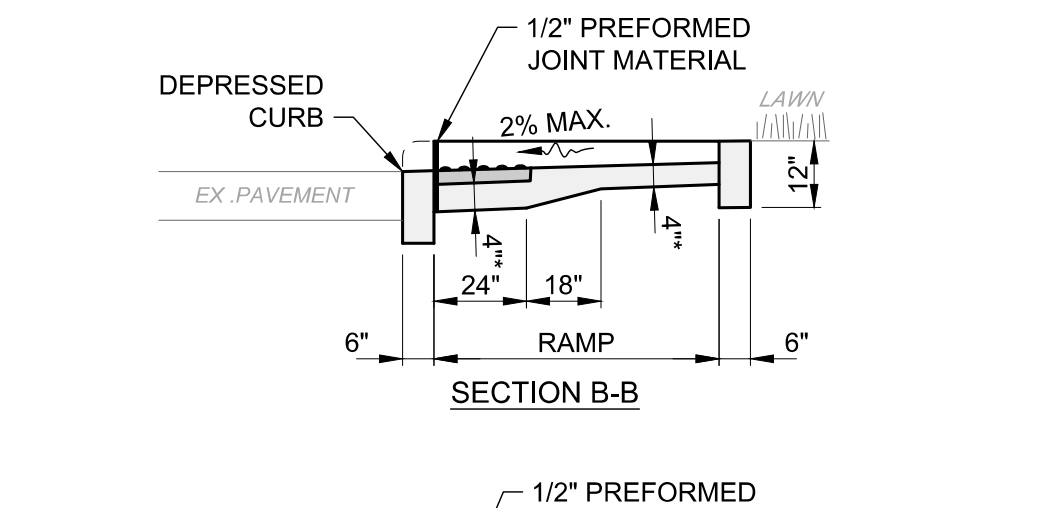
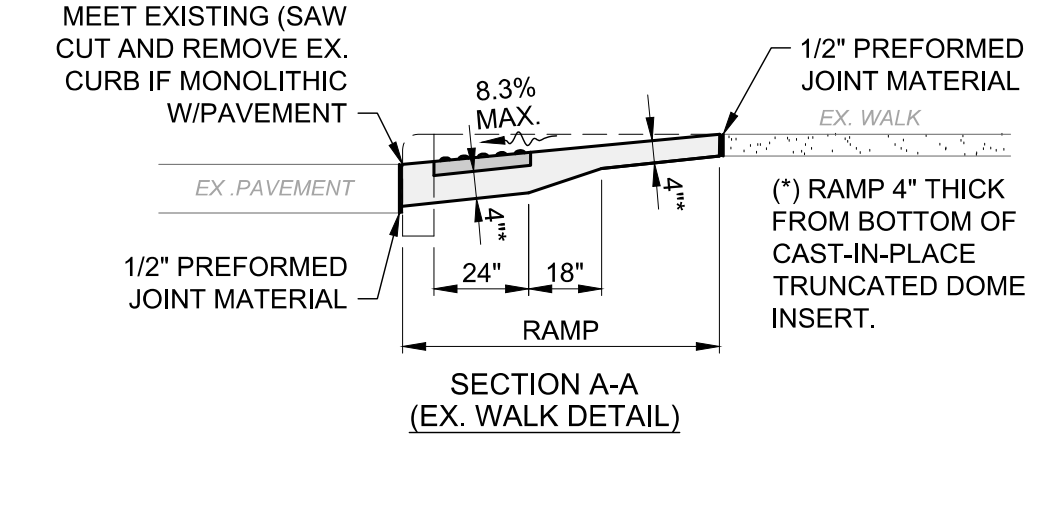
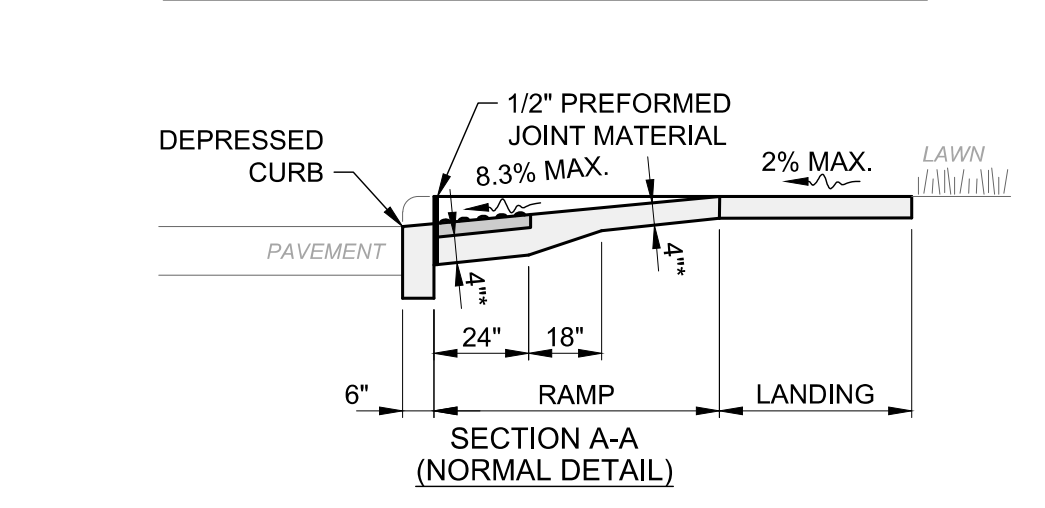
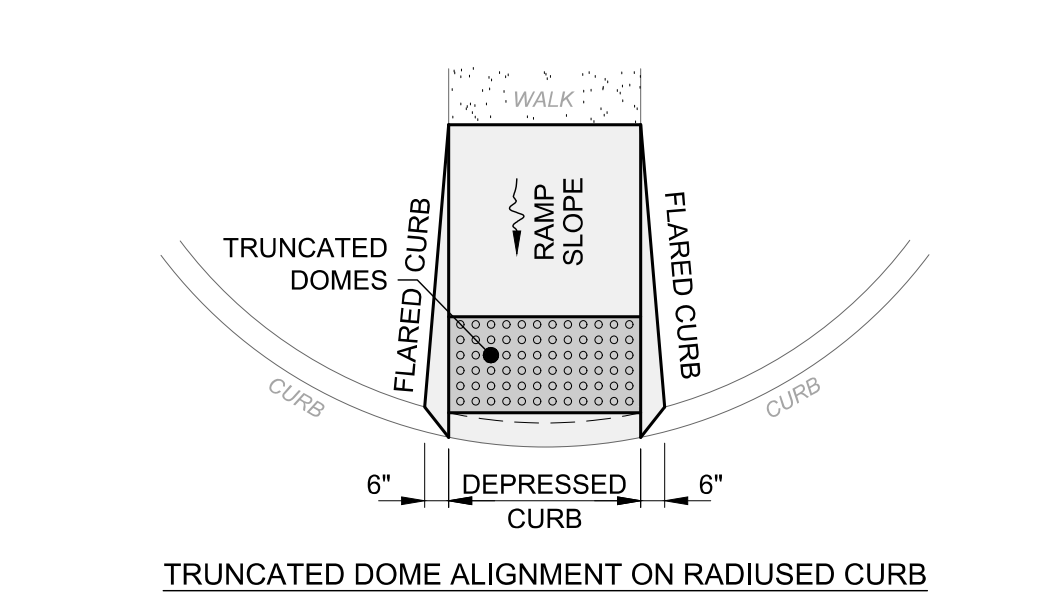
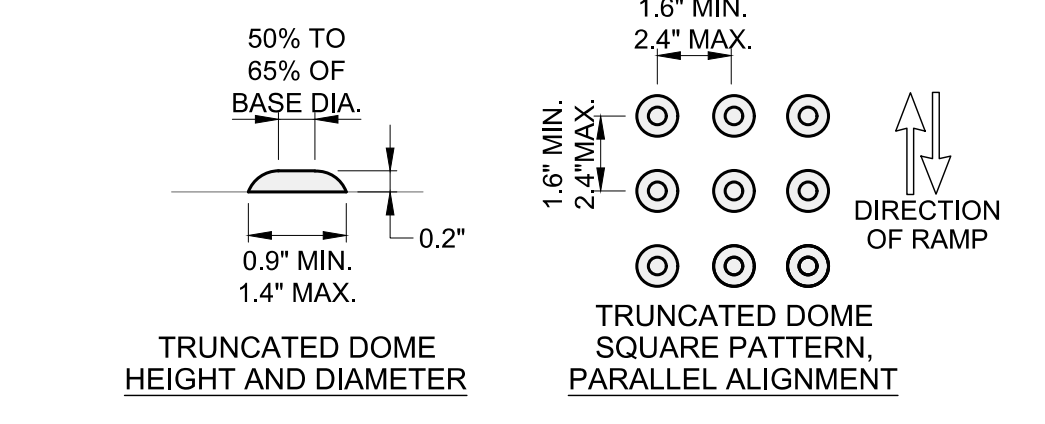
**TYPE "C" PAVEMENT REPLACEMENT (ASHPALT), DRIVEWAY, APRON, OR PARKING LOT, AS PER PLAN**  
SCALE: NONE

- NOTES:
- ASPHALT PAVEMENT TO BE REMOVED SHALL BE SAW CUT IN A NEAT AND STRAIGHT LINE AT THE LIMITS SHOWN ON THE PLANS OR AS FIELD MARKED BY THE ENGINEER. ADDITIONAL SAW CUTS MAY BE DESIRED TO FACILITATE REMOVAL, BUT THERE WILL BE NO EXTRA PAYMENT.
  - PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAW CUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.
  - TACK COAT SHALL BE APPLIED TO THE EXPOSED EX. ASPHALT BASE COURSE AND ALL SIDES OF PATCH.
  - ODOT ITEM 705.04 JOINT SEALANT SHALL BE APPLIED AROUND THE EDGE OF PATCH.



**ACCESSIBLE CURB RAMPS DETAIL**  
SCALE: NONE

- NOTES:
- THIS DETAIL IS FOR REFERENCE ONLY; NOT ALL ITEMS MAY APPLY OR DIFFERENT CONFIGURATIONS MAY BE REQUIRED. SEE LAYOUT PLAN FOR RAMP TYPE, CONFIGURATION, DIMENSIONS AND DEPRESSED CURB LOCATION; GRADING PLAN FOR ELEVATIONS AND SLOPES; AND DETAIL SHEETS FOR APPLICABLE WALK AND CURB DETAILS.
  - LINES SHOWN IN THIS DETAIL INDICATE RAMP EDGES AND CHANGES IN SLOPE, AND NOT NECESSARILY JOINT LINES.
  - TEXTURE CONCRETE SURFACE BY COARSE BROOMING TRANSVERSE TO RAMP SLOPE.
  - ALL RAMPS SHALL BE POURED INTEGRAL WITH NEW CURBS WITH CURB EDGE FLUSH TO PAVEMENT.
  - TRUNCATED DOMES SHALL BE ALONG THE FULL RAMP WIDTH AND ALIGNED WITH THE PRIMARY RAMP DIRECTION.
  - TRUNCATED DOMES SHALL BE INSTALLED FLUSH WITH BACK OF CURB. IN SKEWED CONDITION, ONE CORNER OF THE STRIP MUST BE ADJACENT TO BACK OF CURB. TRUNCATED DOME MATERIALS SHALL BE MITERED AND PLACED SEGMENTALLY FOR NON-STANDARD LAYOUTS.
  - ONLY CAST-IN-PLACE TRUNCATED DOMES ARE ALLOWED.
  - TRUNCATED DOME COLOR SHALL BE BRIGHT RED, ORANGE RED OR FEDERAL YELLOW AND CONTRAST WITH CONCRETE.



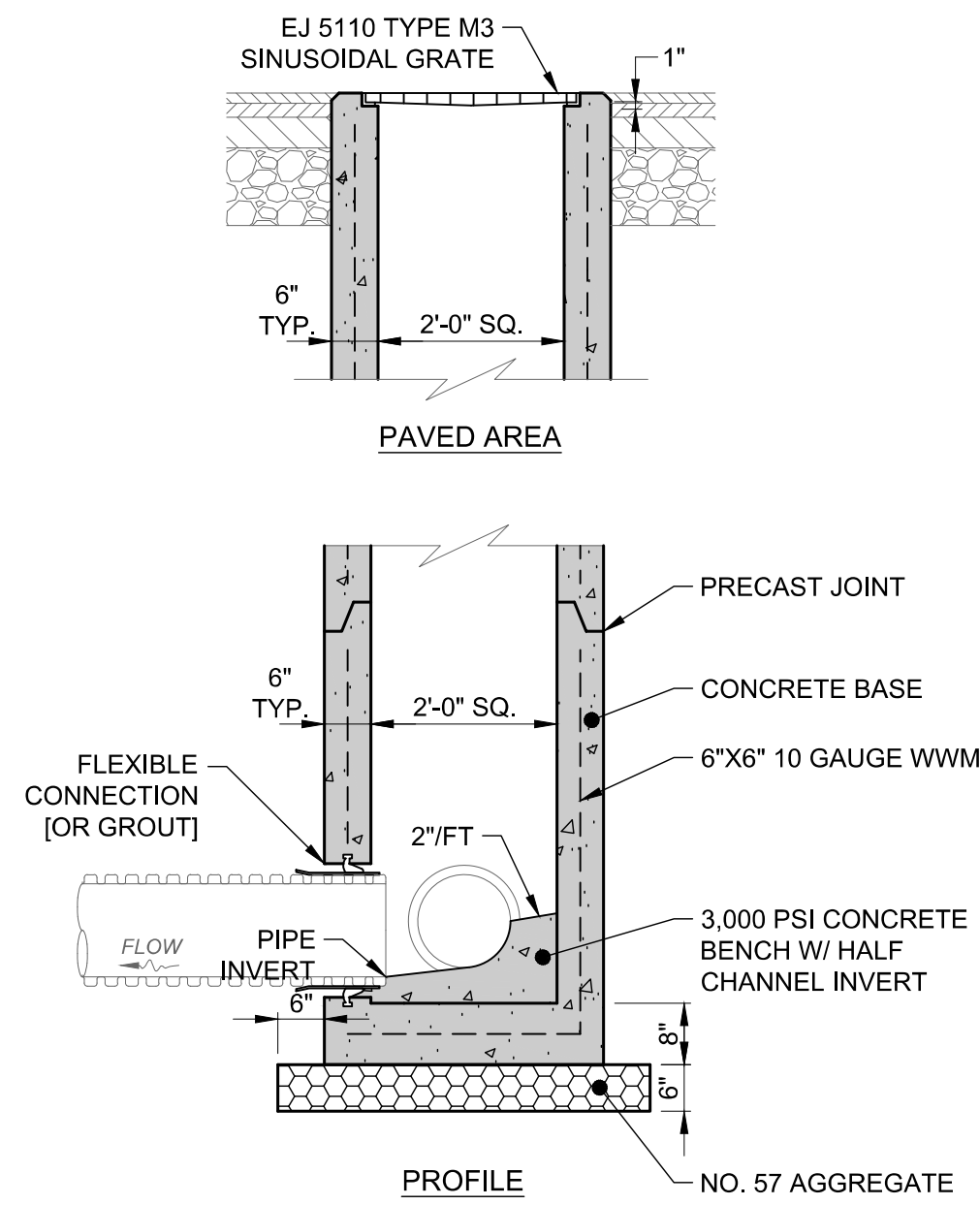
**STANDARD DETAILS - 3**

- NOTES:
- THIS DETAIL IS FOR REFERENCE ONLY; NOT ALL ITEMS MAY APPLY OR DIFFERENT CONFIGURATIONS MAY BE REQUIRED. SEE LAYOUT PLAN FOR RAMP TYPE, CONFIGURATION, DIMENSIONS AND DEPRESSED CURB LOCATION; GRADING PLAN FOR ELEVATIONS AND SLOPES; AND DETAIL SHEETS FOR APPLICABLE WALK AND CURB DETAILS.
  - LINES SHOWN IN THIS DETAIL INDICATE RAMP EDGES AND CHANGES IN SLOPE, AND NOT NECESSARILY JOINT LINES.
  - TEXTURE CONCRETE SURFACE BY COARSE BROOMING TRANSVERSE TO RAMP SLOPE.
  - ALL RAMPS SHALL BE POURED INTEGRAL WITH NEW CURBS WITH CURB EDGE FLUSH TO PAVEMENT.
  - TRUNCATED DOMES SHALL BE ALONG THE FULL RAMP WIDTH AND ALIGNED WITH THE PRIMARY RAMP DIRECTION.
  - TRUNCATED DOMES SHALL BE INSTALLED FLUSH WITH BACK OF CURB. IN SKEWED CONDITION, ONE CORNER OF THE STRIP MUST BE ADJACENT TO BACK OF CURB. TRUNCATED DOME MATERIALS SHALL BE MITERED AND PLACED SEGMENTALLY FOR NON-STANDARD LAYOUTS.
  - ONLY CAST-IN-PLACE TRUNCATED DOMES ARE ALLOWED.
  - TRUNCATED DOME COLOR SHALL BE BRIGHT RED, ORANGE RED OR FEDERAL YELLOW AND CONTRAST WITH CONCRETE.

MANHOLE		MAX. PIPE I.D.	
BASE I.D.	MIN. WALL THICKNESS	STRAIGHT THRU INSTALLATION	RIGHT ANGLE INSTALLATION
4'-0"	5"	27"	24"
5'-0"	5"	36"	30"
6'-0"	6"	42"	36"
7'-0"	7"	54"	42"
8'-0"	8"	60"	48"

**NOTES:**

- TOP SECTION SHALL BE AN ECCENTRIC CONE. ROTATE CONE TO OFFSET MANHOLE CASTING TO AVOID SIDEWALKS, UNDERDRAINS AND CURBS.
- LARGER BASE WITH TRANSITION SECTION MAY BE REQUIRED BASED ON PIPE SIZES, QUANTITIES AND ANGLES.
- PRECAST MANHOLE AND REINFORCEMENT SHALL CONFORM TO ASTM C-478.
- STRUCTURE SHALL MEET H-20 LOADING.
- BASE MUST BE PRECAST MONOLITHIC WITH BASE RISER.
- ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTIONS WITHOUT LIFT HOLES OF ANY KIND.
- O-RING JOINT BETWEEN PRECAST MANHOLE SECTIONS SHALL BE RESILIENT WATERTIGHT GASKET PER ASTM C-443.
- ALL PIPE OPENINGS MUST BE PRECAST WITH FLEXIBLE CONNECTIONS (Z-LOK OR A-LOK) PER ASTM C-923. [OR: PIPE OPENINGS <24" MUST BE PREFABRICATED WITH FLEXIBLE CONNECTIONS (Z-LOK OR A-LOK) PER ASTM C-923. LARGER PIPES MAY USE FLEXIBLE CONNECTIONS OR FILL INTERSTITIAL SPACE WITH GROUT.]
- USE REINFORCED PLASTIC MANHOLE STEPS.
- FIRST STEP SHALL NOT BE MORE THAN 2'-0" BELOW TOP OF FRAME. MAKE PROJECTION 3-1/2" IF IN 24" DIA. SECTION.
- CASTING TYPE VARIES BASED ON MANHOLE LOCATION AND SHALL BE AS FOLLOWS OR PER PLAN:
  - IN PAVEMENT: EJ 1040 FRAME WITH TYPE "B" VENTED COVER LABELED "STORM".
  - IN PAVEMENT ADJACENT TO CURB: EJ 7010 FRAME WITH TYPE "M4" VANE GRATE AND "T1" BACK.
  - IN SIDEWALK: EJ 1040 FRAME WITH TYPE "A" SOLID COVER LABELED "STORM".
  - IN GRASS: EJ 1040 FRAME WITH TYPE "N" OVAL GRATE.
- ANY PRECAST CONCRETE SECTION DAMAGED IN TRANSIT OR ON-SITE AND WHERE THE WATER TIGHTNESS OF THE SECTION HAS BEEN ADVERSELY AFFECTED SHALL BE REPLACED AND NOT UTILIZED IN THE CONSTRUCTION OF THE MANHOLE.

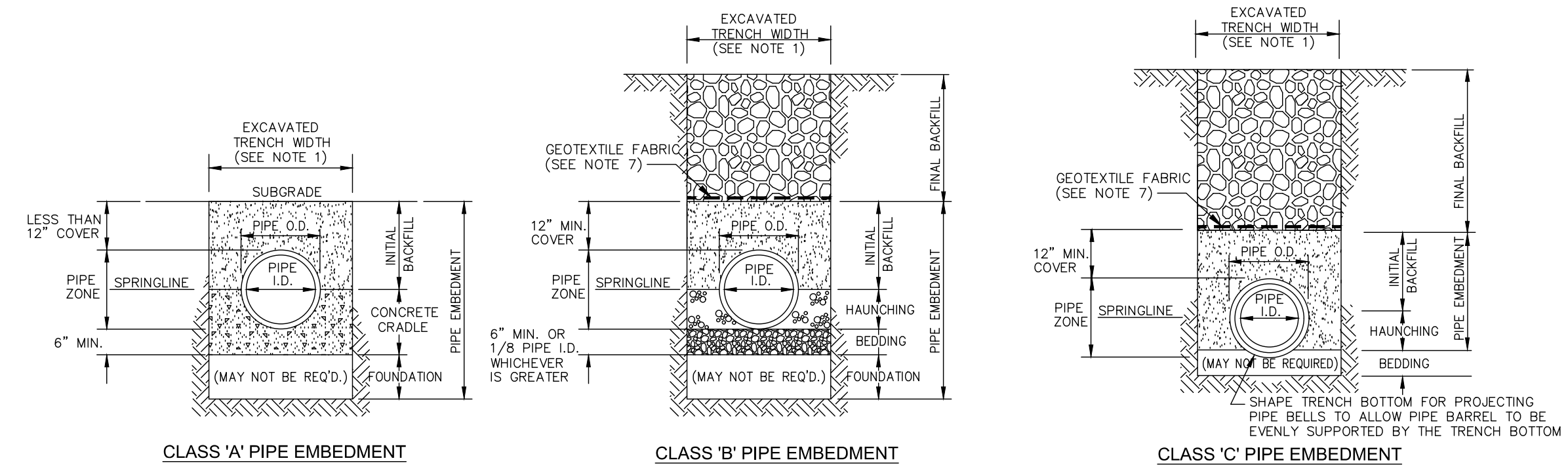


**NOTES:**

- CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
- STRUCTURE SHALL MEET H-20 LOADING.
- PRECAST CONCRETE STRUCTURE AND REINFORCEMENT SHALL CONFORM TO ASTM C-913.
- PRECAST KNOCKOUT SIDES FOR CURB DRAIN AND PIPE CONNECTION HOLES, AS REQUIRED. PIPE OPENINGS SHALL BE O.D. OF PIPE PLUS 2", AND INTERSTITIAL SPACE FILLED WITH GROUT.
- IF TOP SECTION IS A SEPARATE CAST PIECE, 1/2"Ø X 6" L DOWELS SHALL BE USED AT EACH CORNER TO ATTACH THE TOP TO THE BOTTOM SECTIONS OF BASIN.
- GRATE MUST INCLUDE LETTERING "DUMP NO WASTE" AND FISH IMAGE.
- THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE UTILITY PLAN FOR ACTUAL PIPE SIZES AND ELEVATIONS.

**(PRECAST CONCRETE 2'X2')  
CATCH BASIN DETAIL**

SCALE: NONE



**NOTES:**

- 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.
- 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.
- PIPE EMBEDMENT:
 

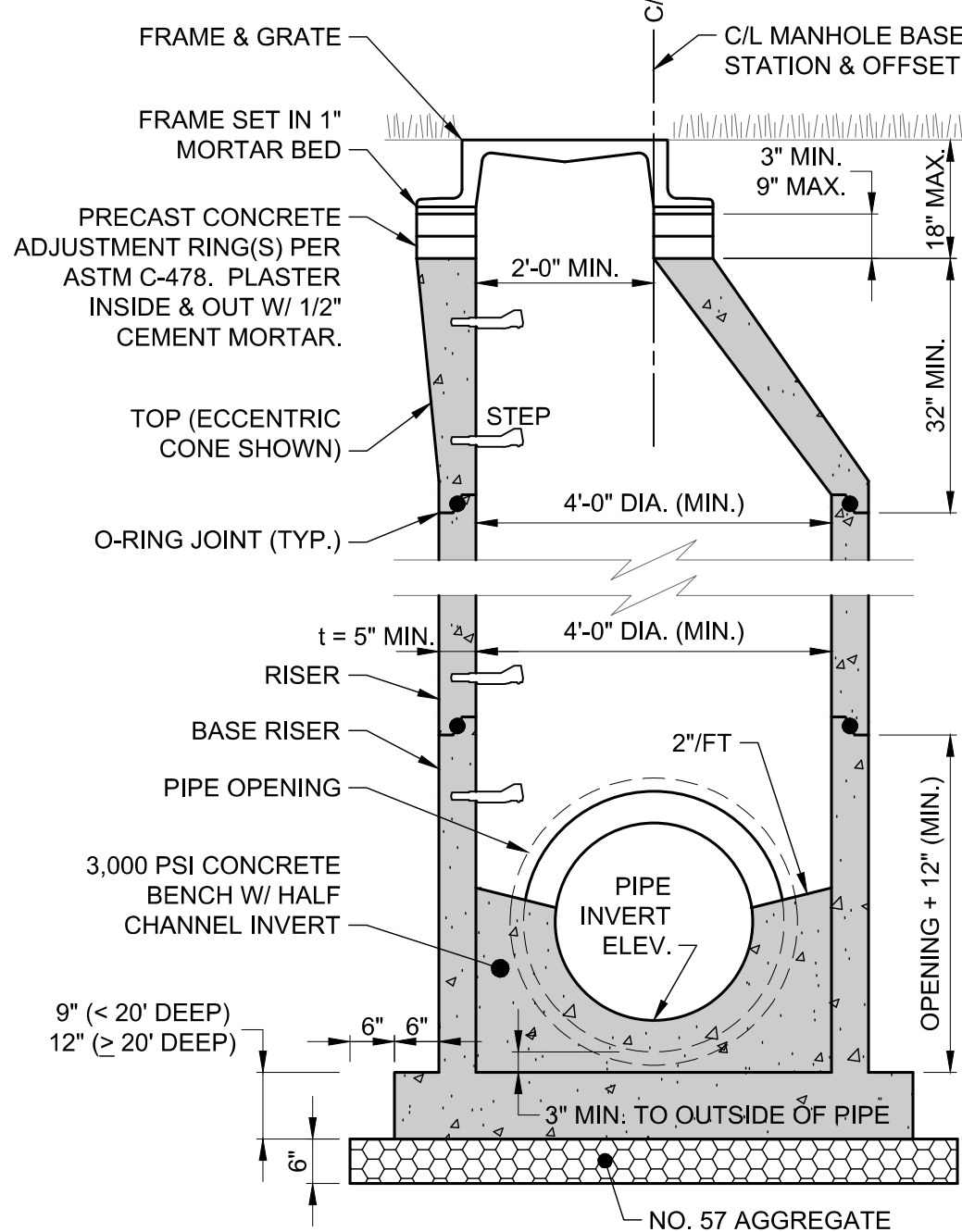
CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

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.
- 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.
- SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 310000.
- CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.
- 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.
- 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.

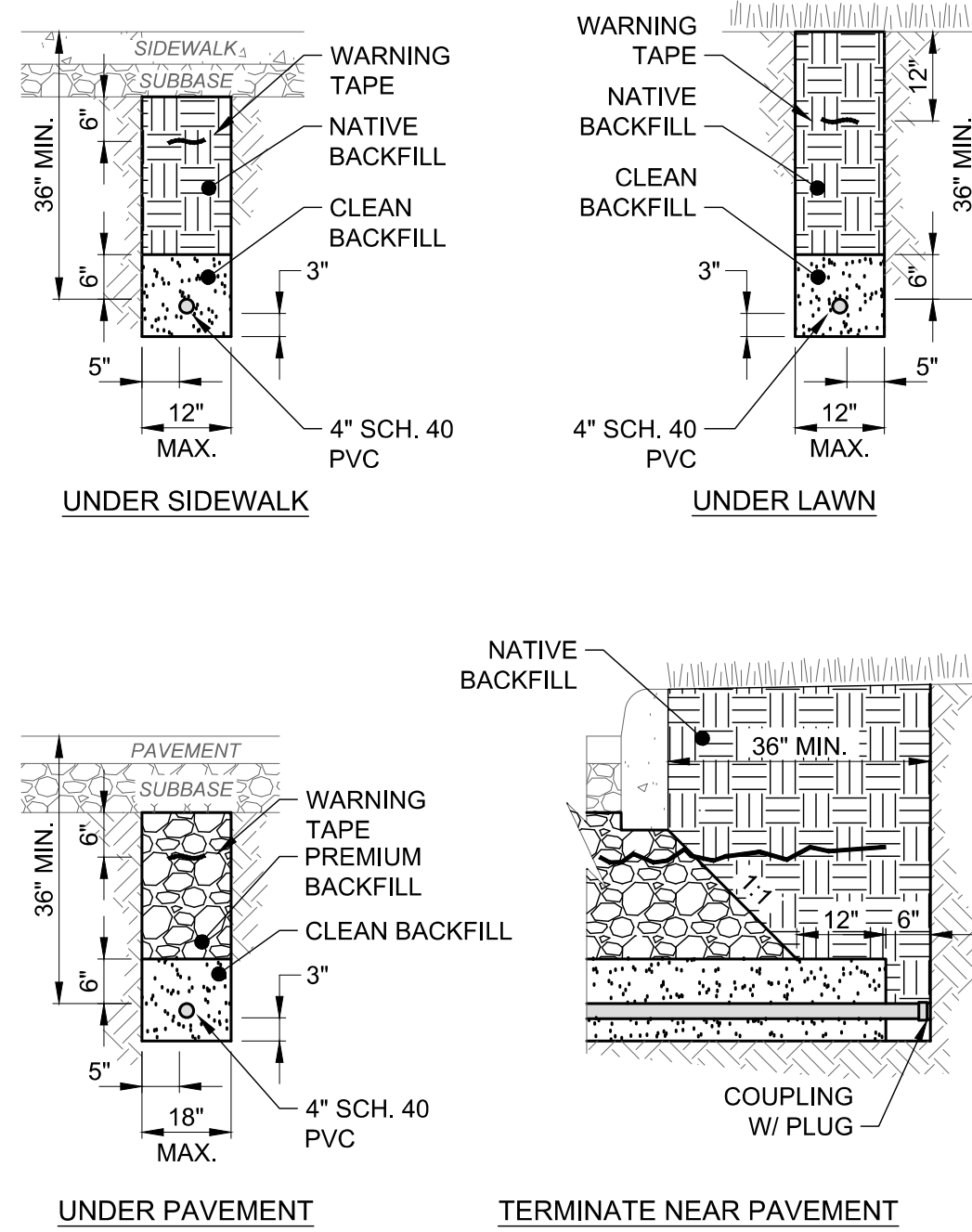
**TRENCHING, EMBEDMENT AND BACKFILL DETAIL**

NOT TO SCALE



**PRECAST CONCRETE MANHOLE  
(STORM) DETAIL**

SCALE: NONE

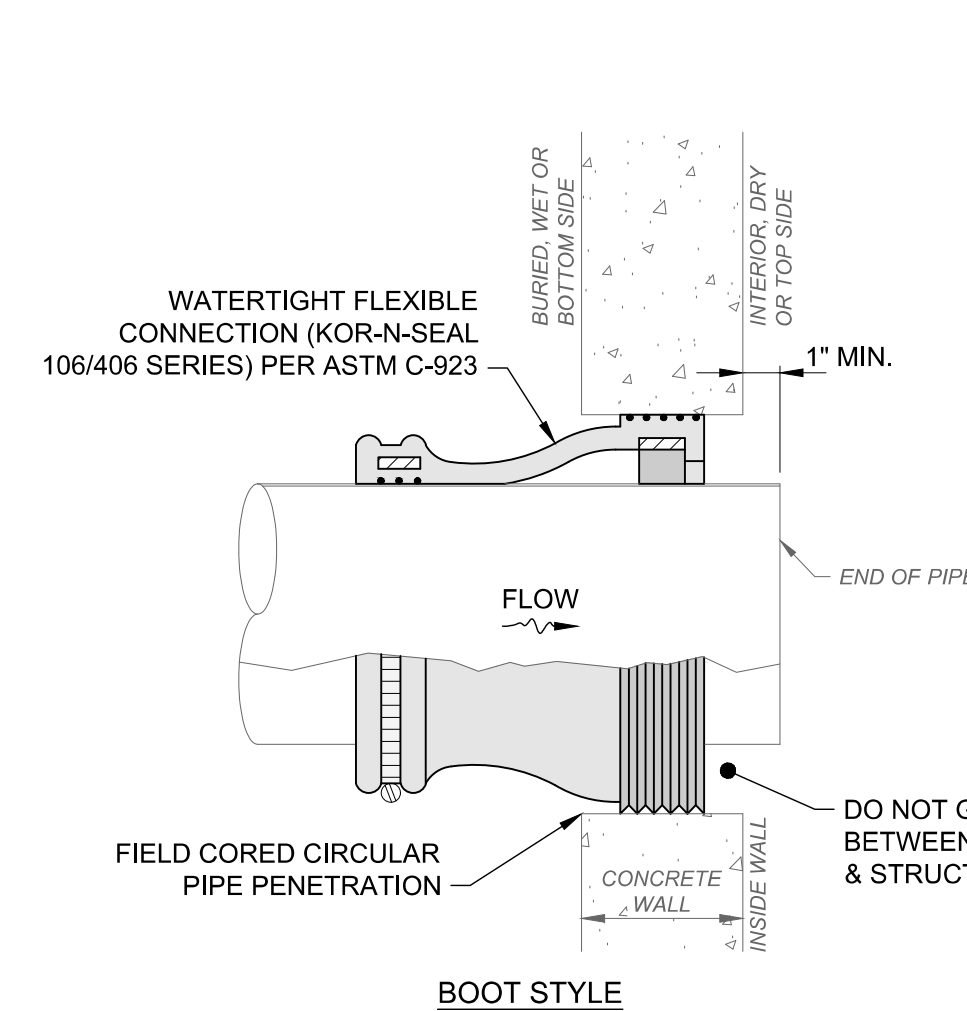


**NOTES:**

- SEE SEPARATE GENERAL NOTES FOR ACCEPTABLE TRENCH BACKFILL MATERIAL AND OTHER REQUIREMENTS AND SPECIFICATIONS.

**LIGHTING TRENCH DETAIL**

SCALE: NONE

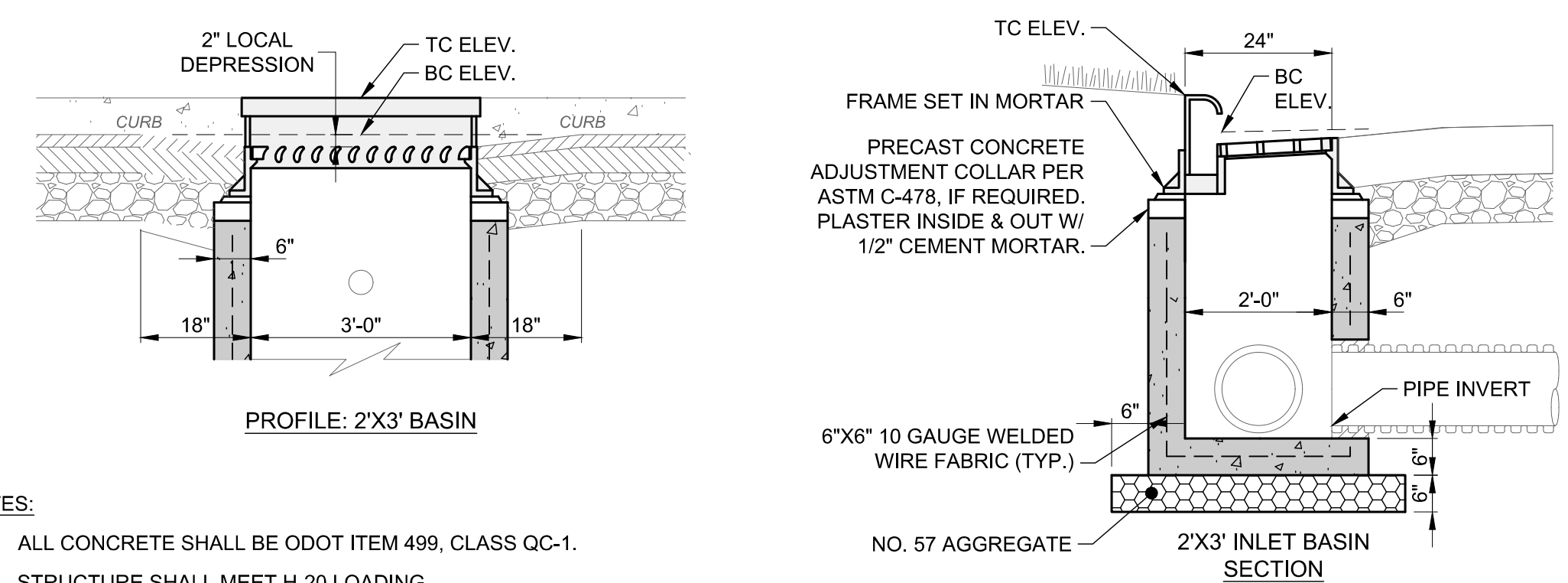


**NOTES:**

- OPENING REQUIRED IN STRUCTURE SHALL BE FIELD CORED TO SIZE PER MANUFACTURER RECOMMENDATION.

**FLEXIBLE CONNECTION TO EXISTING  
CONCRETE MANHOLE DETAIL**

SCALE: NONE



**NOTES:**

- ALL CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
- STRUCTURE SHALL MEET H-20 LOADING.
- PRECAST CONCRETE STRUCTURE AND REINFORCEMENT SHALL CONFORM TO ASTM C-913.
- INSTALL STEPS IF STRUCTURE IS MORE THAN 5' DEEP (NOT SHOWN FOR CLARITY). USE REINFORCED PLASTIC MANHOLE STEPS. FIRST STEP SHALL NOT BE MORE THAN 2'-0" BELOW TOP OF FRAME.
- PRECAST KNOCKOUT SIDES FOR CURB DRAIN AND PIPE CONNECTION HOLES, AS REQUIRED. PIPE OPENINGS SHALL BE O.D. OF PIPE PLUS 2", AND INTERSTITIAL SPACE FILLED WITH GROUT. SPRAY FOAM, STONES, WOOD WEDGES AND LOOSE BRICKS ARE UNACCEPTABLE. GRADE ADJUSTMENT BY PRE-CAST CONCRETE ADJUSTING COLLAR OR MAX. 2 COURSES ASTM C-32 BRICK MASONRY SET IN MORTAR.
- (\*) IF TOP SECTION IS A SEPARATE CAST PIECE, 1/2"Ø X 6" L DOWELS SHALL BE USED AT EACH CORNER TO ATTACH THE TOP TO THE BOTTOM SECTIONS OF BASIN.
- FRAME AND GRATE SHALL BE EJ 7030 WITH TYPE M6 VANE GRATE AND T1 BACK FOR 2'X3' OR 3'X3' BASIN, AND EJ 7031 WITH TYPE M6 VANE GRATE AND T1 BACK FOR 2'X6' OR 3'X6' BASIN; OR PER PLAN.
- ALL GRATES SHALL INCLUDE LETTERING "DUMP NO WASTE" AND FISH IMAGE.
- BASIN SHALL INCLUDE SUMP IF REQUIRED PER PLAN.
- THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE UTILITY PLAN FOR ACTUAL SIZES.

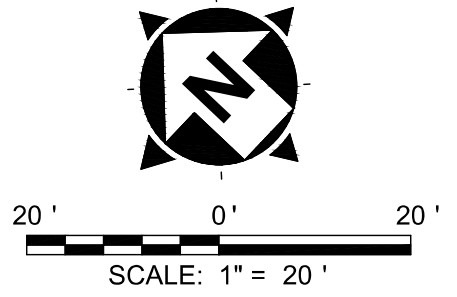
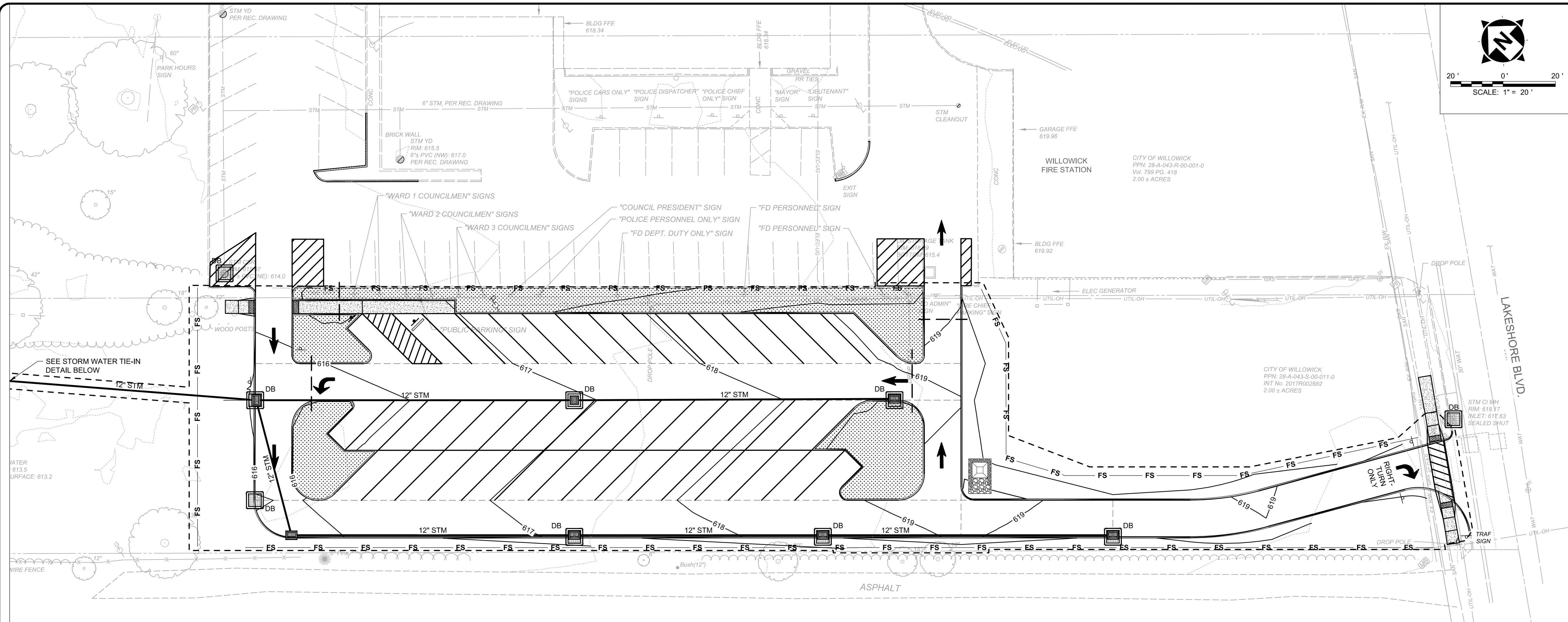
**PRECAST CONCRETE 2'X3'  
CURB INLET BASIN DETAIL**

SCALE: NONE



DATE	REVISION	NO	BID	ISSUED FOR:
			03/24/2026	WILLIOWICK CITY HALL
				PARKING LOT IMPROVEMENTS
				30435 LAKESHORE BLVD.,
				WILLIOWICK, OH 44095
				CITY OF WILLIOWICK
				LAKE COUNTY, OHIO
				STANDARD DETAILS - 4

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-12
SHEET	14
OF	17



STATE OF OHIO  
 PATRICK A. BLAKE  
 E-88436  
 REGISTERED  
 PROFESSIONAL ENGINEER

**verdantas**

ISSUED FOR:	DATE
BID	
NO	
REVISION	

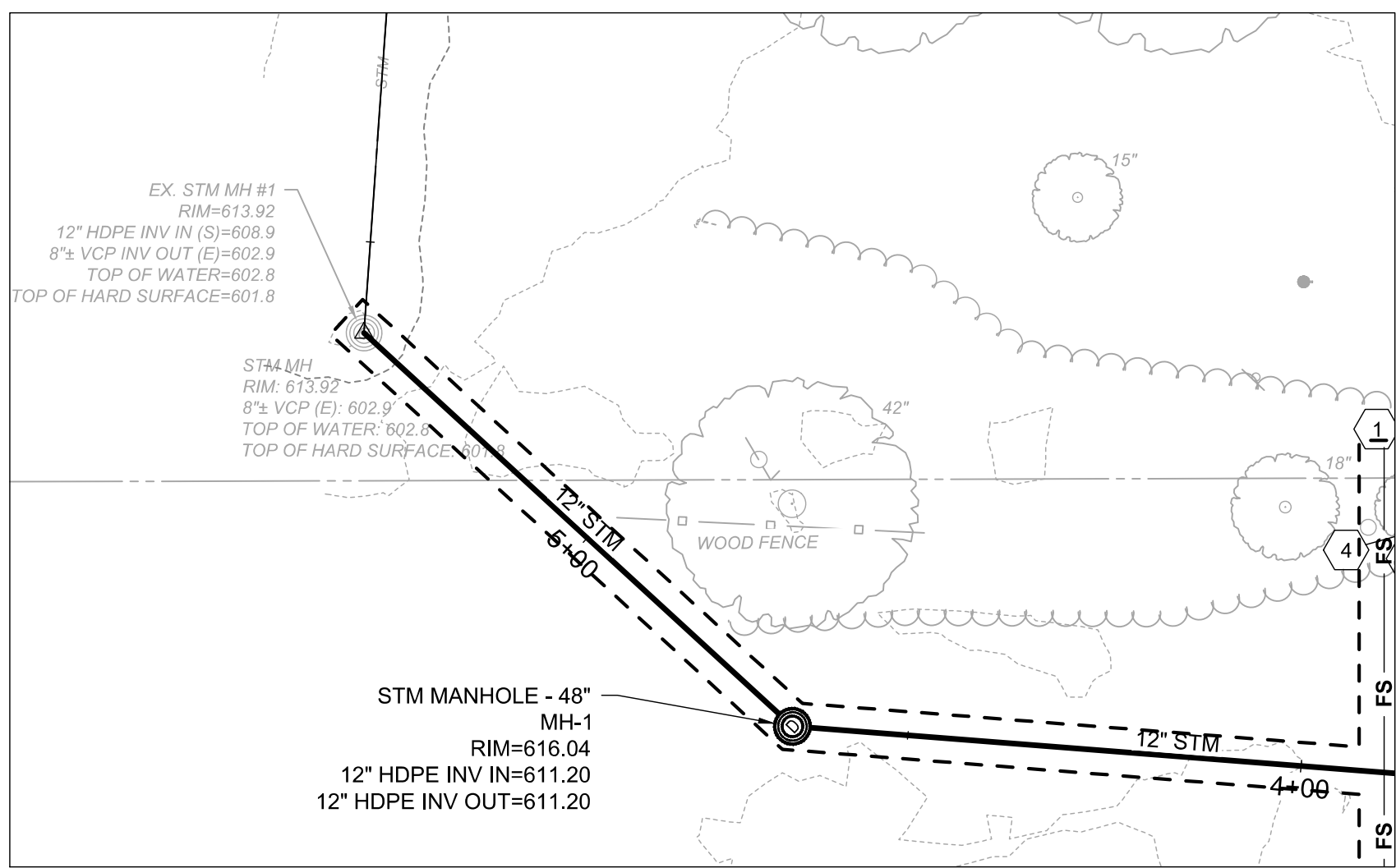
ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
03/24/2026	1"=20'	LMM	LMM	PAB

**SHEET LEGEND**

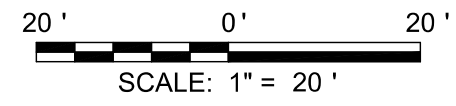
- APPROXIMATE DISTURBED LIMITS
- 18" FILTER SOCK
- STORM INLET PROTECTION; DANDY BAG
- CONCRETE WASHOUT

**GENERAL NOTES**

1. GRAPHICAL SCREENING AND SHADING IS USED TO DE-EMPHASIZE EXISTING ITEMS AND SOME NEW IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK.
2. PROPOSED DEMOLITION PLAN ITEMS ARE NOT SHOWN FOR CLARITY PURPOSES.
3. SEE GENERAL ABBREVIATIONS, LINETYPES & SYMBOLS SHEET FOR COMMONLY USED ABBREVIATIONS, LINETYPES AND SYMBOLS.
4. EXISTING CONDITIONS SHOWN HEREIN ARE PER TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS INC DATED APRIL 24, 2025.
5. EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO CONSTRUCTION. IN THE EVENT UTILITY LOCATION DIFFERS IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.



**STORMWATER TIE-IN DETAIL**



**WILLOWICK CITY HALL  
 PARKING LOT IMPROVEMENTS**  
 30435 LAKESHORE BLVD.,  
 WILLOWICK, OH 44095  
 CITY OF WILLOWICK  
 LAKE COUNTY, OHIO

**E&S PLAN**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-13
SHEET	OF
15	17

**SITE INFORMATION**

PROJECT INFORMATION:  
630435 LAKESHORE BOULEVARD  
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

ENGINEER INFORMATION:  
VERDANTAS  
8150 STERLING COURT  
MENTOR, OHIO 44060  
CONTACT: PATRICK BLAKE, PE  
PHONE: 440-530-2341

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TYPE OF CONSTRUCTION:  
(x) NEW      ( ) MAINTENANCE      ( ) REDEVELOPMENT

TYPE OF PROJECT:  
(x) SITE

DESCRIPTION OF PROJECT:  
PARKING LOT EXPANSION, WITH NEW CURB, PAVEMENT, SIDEWALK, CATCH BASINS, INLETS, AND PAVEMENT MARKINGS. AS WELL AS REHABILITATION OF THE EXISTING SITE PARKING LOT. THE REHABILITATION WILL BE PAVEMENT PLANING, PARTIAL DEPTH PAVEMENT REPAIR, AND NEW PAVEMENT MARKINGS.

SOIL DISTURBING ACTIVITIES INCLUDE:  
EROSION AND SEDIMENT CONTROL INSTALLATION; REMOVAL OF VEGETATION, TOPSOIL, AND SOIL BENEATH PAVEMENT SUBBASE; EARTHWORK GRADING; AND INSTALL OF NEW UTILITIES

DESCRIPTION OF PRIOR LAND USE:  
MIXED USE DISTRICT, BUSINESS AND GOVERNMENT BUILDINGS. STORM SEWER DISCHARGES TO A TRIBUTARY TO LAKE ERIE.

SITE AREA INFORMATION:  
PROJECT LIMIT/CONSTRUCTION AREA:      0.89 AC.  
AREA OF SOIL DISTURBANCE:                0.89 AC.  
INCREASE/DECREASE OF IMPERVIOUS AREA:    +51 %

NAME OF RECEIVING STREAM, SURFACE WATER OR MS4:  
CITY OF WILLOWICK STORM SEWER THAT DISCHARGES TO LAKE ERIE

**EROSION CONTROL NOTES**

- SPECIAL MEASURES SHALL BE TAKEN TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
- DIVERT SURFACE RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN THE TIME FRAMES IN THE FOLLOWING TABLES:

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY CONTROLS
ANY OTHER AREA TO BE DORMANT MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR	WITHIN 7 DAYS OF MOST RECENT DISTURBANCE
AREA TO REMAIN IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER
AREA TO BE PAVED	STABILIZE WITH STONE SUBBASE UNTIL PAVED

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY CONTROLS
ANY AREA AT FINAL GRADE	WITHIN 7 DAYS OF REACHING FINAL GRADE

**OTHER WASTE CONTROL NOTES**

- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS. ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, MUST BE DISPOSED OF IN A CONCRETE WASHOUT AREA TO COLLECT AND HARDEN.
- OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADS TO REMOVE MUD, DIRT OR ROCK TRACKED FROM THE SITE AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPULIN.
- IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS SOLID OR LIQUID WASTE INCLUDING TRASH, CONSTRUCTION DEBRIS, SOLVENTS, PAINT, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUND, ANTIFREEZE OR OTHER TOXIC OR HAZARDOUS WASTE. WASTE MATERIALS SHALL BE COLLECTED IN A SECURELY LIDDED DUMPSTER, DISPOSED OF IN AN APPROVED LANDFILL AND EMPTIED AS NECESSARY.
- FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA WITH A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. A DIKED AREA IS NOT NECESSARY IF A SELF-CONTAINED SPILL PROOF TANK IS USED.
- ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES TO THE LOCAL FIRE DEPARTMENT AND OHIO EPA.
- CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED OR HAZARDOUS WASTE MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK AND DISPOSED OF AS A WASTE WATER.

**GENERAL NOTES**

- THE CONTRACTOR SHALL REVIEW AND FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE CURRENT, ACTIVE OHIO EPA NPDES PERMIT NO. 3IN00000\*HD.
- THIS SWP3 HAS BEEN PREPARED SHOWING THE ITEMS LISTED BELOW, BUT THE CONTRACTOR MAY NEED TO MOVE OR ADD ITEMS AS CONSTRUCTION PROGRESSES OR DURING THE VARIOUS STAGES OF CONSTRUCTION.
  - LIMITS OF EARTH DISTURBING ACTIVITY
  - EROSION AND SEDIMENT CONTROL MEASURES
  - INLET PROTECTIONS
  - CONCRETE WASHOUT PIT
  - ANY OTHER EROSION CONTROL REQUIRED
- ALL WORK REQUIRED TO IMPLEMENT THE SW3P INCLUDING INSPECTION FEES, MAINTENANCE AND REPAIRS SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL AMEND THE SW3P WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES INSTALLATION OF BMPS OR MODIFICATION TO EXISTING BMPS.
- THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORMWATER GENERAL PERMIT OHC000006 AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
- THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE A "DELEGATION OF AUTHORITY FOR STORMWATER POLLUTION PREVENTION PLAN" AND PROVIDE A COPY TO THE OWNER AND SWCD.
- ALL PROCEDURES AND REQUIREMENTS CONTAINED IN THIS SW3P APPLY TO ALL GENERAL AND SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, INFORM, REQUIRE AND ENFORCE ALL ASPECTS AND PROCEDURES OF THE SW3P. THE CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS THAT ARE OR MAY BE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORMWATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL", AND PROVIDE A COPY TO THE OWNER AND SWCD AS NEEDED. EACH CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL FINES, DAMAGES AND LIABILITY RESULTING FROM FAILURE TO PROVIDE THE REQUIRED POLLUTION CONTROL.
- THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE, SW3P AND INSPECTION LOGS/REPORTS.
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD.

**MAINTENANCE REQUIREMENTS**

- BMPS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS, POSSESS THE TECHNICAL SKILLS TO ASSESS SITE CONDITIONS THAT COULD IMPACT STORM WATER QUALITY, AND CAN ASSESS THE EFFECTIVENESS OF ANY BMP SELECTED.
- TO DETERMINE IF THE SWP3 WAS PROPERLY IMPLEMENTED.
- THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION SUMMARIZING INSPECTION RESULTS INCLUDING THE FOLLOWING:
  - DATE OF INSPECTION
  - NAME AND QUALIFICATION OF THE INSPECTOR
  - WEATHER CONDITIONS
  - LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION OR OTHER POLLUTANTS WERE OBSERVED.
  - LOCATIONS OF BMPS NEEDING MAINTENANCE.
  - LOCATIONS OF BMPS FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION.
  - LOCATION OF AREAS IN NEED OF ADDITIONAL BMPS NOT IN PLACE AT THE TIME OF INSPECTION.
  - CORRECTIVE ACTIONS REQUIRED, CHANGES TO THE SW3P AND IMPLEMENTATION DATES.
  - EROSION AND SEDIMENT CONTROL AMENDMENT LOG
- ALL INCIDENCES OF NON-COMPLIANCE MUST BE IDENTIFIED IN THE REPORT. IF A REPORT DOES NOT IDENTIFY INCIDENCES OF NON-COMPLIANCE, IT MUST CONTAIN A CERTIFICATION THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
- THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER WEATHER (I.E. SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
  - FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR EXTENDED PERIODS OF TIME (I.E. MORE THAN 1 MONTH).

**SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES**

- CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES.
- BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPS.
- ESTABLISH STAGING AREA AND NON-SEDIMENT BMPS.
- INSTALL SILT FENCE, INLET PROTECTION
- INSTALL OTHER TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS AS SOON AS POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER FIRST SOIL DISTURBANCE. INSPECT AND MAINTAIN BMPS FOR THE PROJECT DURATION UNTIL UPSLOPE AREAS ARE PERMANENTLY STABILIZED.
- BEGIN SITE DEMOLITION AND CONSTRUCTION.
- APPLY TEMPORARY SEED.
- INSTALL STORM SEWERS AND INLETS.
- INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND INLETS.
- APPLY PERMANENT SEED.
- INSTALL LANDSCAPING.
- CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING, AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED.
- REMOVE TEMPORARY BMPS FROM STORM SEWER AND INLETS, AND OPEN GUTTERS AND DITCHES TO OBTAIN FREE DRAINAGE.
- DISPOSE OF ALL DEBRIS AND WASTE MATERIAL.


**EROSION CONTROL TIMETABLE**

STABILIZATION TYPE	YEAR											
	J	F	M	A	M	J	J	A	S	O	N	D
TEMPORARY SEEDING						⊗	⊗	⊗	⊗	⊗	⊗	
PERMANENT SEEDING						⊗	⊗	⊗	⊗	⊗	⊗	
SODDING						⊗	⊗	⊗	⊗	⊗	⊗	
MULCHING	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
PAVING						⊗	⊗	⊗	⊗	⊗	⊗	

⊗ IRRIGATION NEEDED

**SEDIMENT CONTROL NOTES**

- INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING.
- PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF CLEARING AND GRUBBING, AND CONTINUE TO FUNCTION UNTIL ALL DISTURBED UPLAND AREAS ARE STABILIZED.
- SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL.
- TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT, PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
- SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.



**verdantas**

NO	DATE	REVISION

ISSUED FOR:	BID	DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

**WILLOWICK CITY HALL**

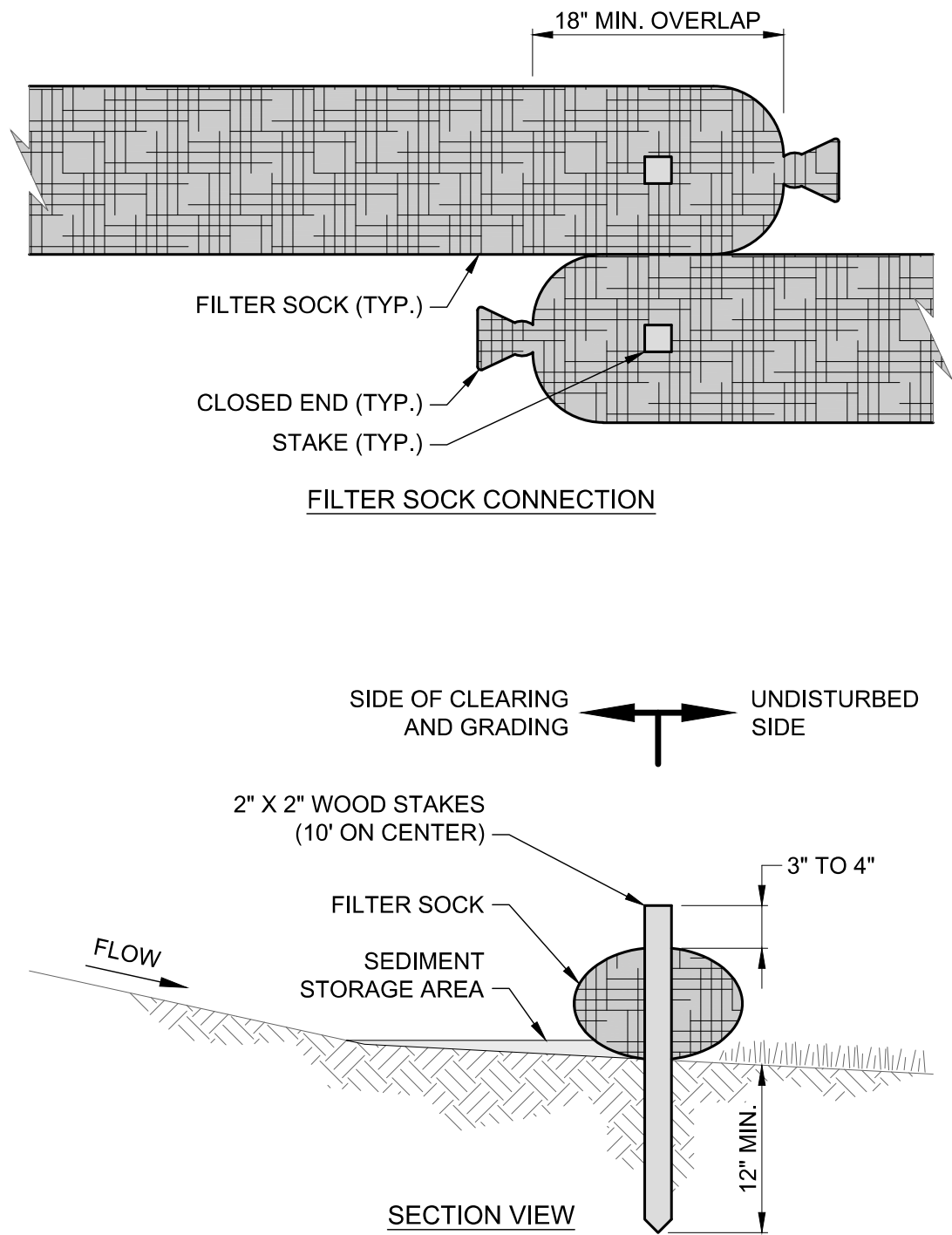
**PARKING LOT IMPROVEMENTS**

30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095

CITY OF WILLOWICK      LAKE COUNTY, OHIO

PROJECT NO.	<b>32356</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>C0-14</b>
SHEET	OF
<b>16</b>	<b>17</b>

**E&S NOTES**



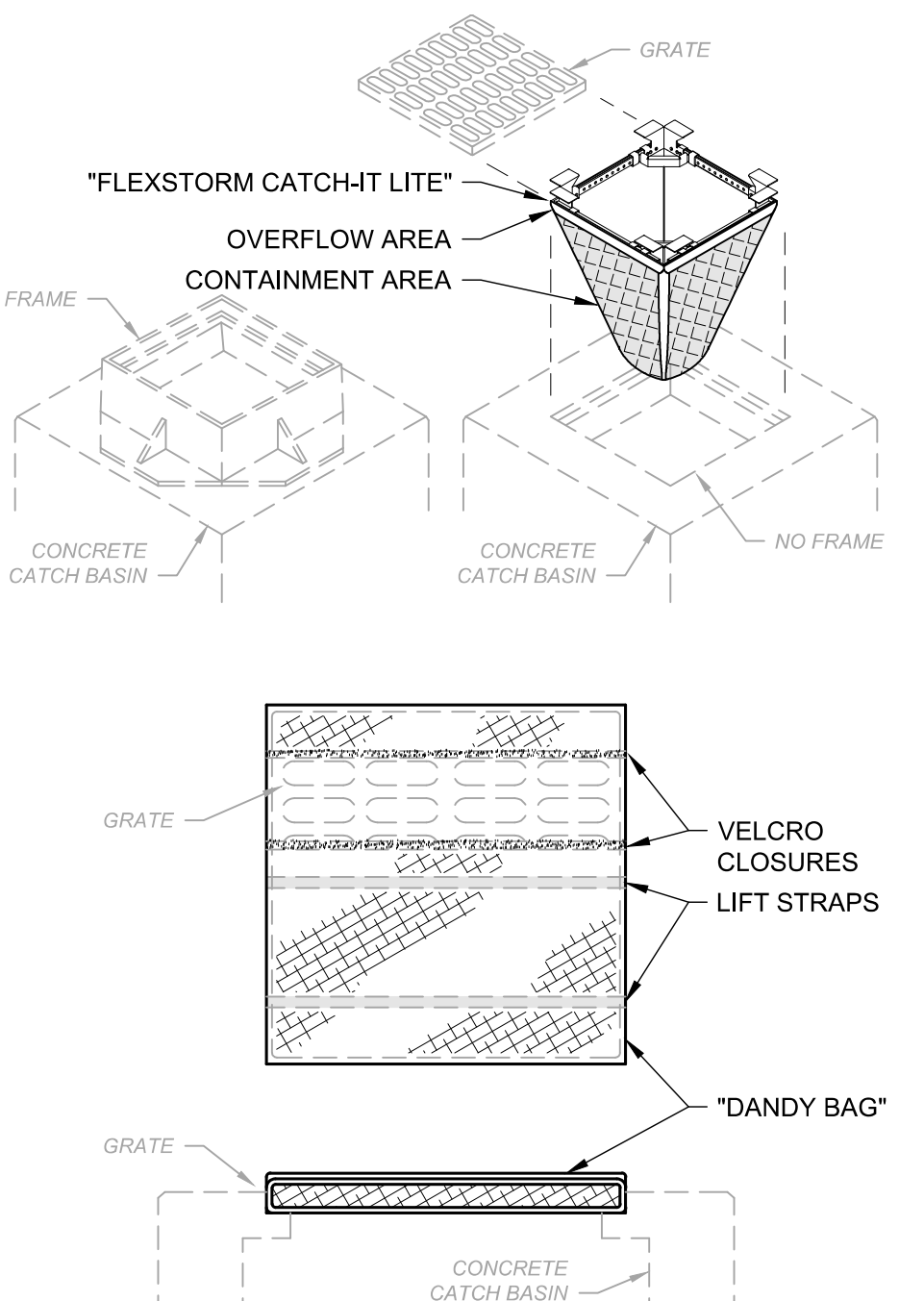
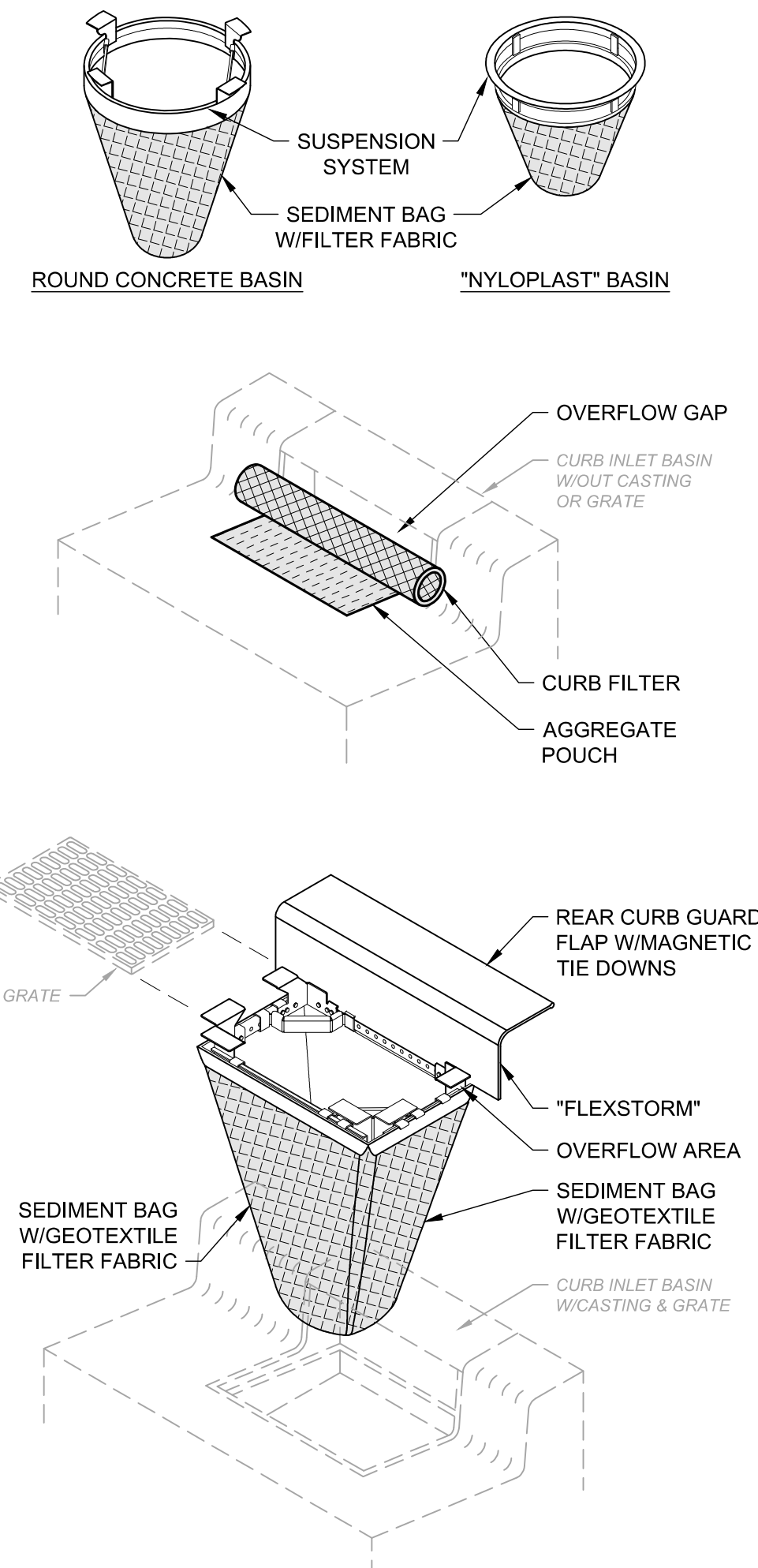
- NOTES:**
- FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, HDPE KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
  - COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF REFUSE, CONTAMINANTS OR MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
  - FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE.
  - THE FLAT DIMENSION OF THE SOCK SHALL BE AT LEAST 1.5 TIMES THE NOMINAL DIAMETER.
  - FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
  - TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
  - BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
  - BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  - WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
  - THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE PER THE CHARTS BELOW:

MAX. DRAINAGE AREA (AC.) PER 100-FT OF FILTER SOCK (*)	RANGE OF SLOPE PER INDIVIDUAL DRAINAGE AREA
0.50 AC.	<2% (50H:1V)
0.25 AC.	≥2% (50H:1V) BUT <20% (5H:1V)
0.125 AC.	≥20% (5H:1V) BUT <50% (2H:1V)

(\*) FILTER SOCK CANNOT BE USED FOR SLOPES ≥50% (2H:1V).

MAX. SLOPE LENGTH ABOVE FILTER SOCK				
SLOPE (%)	RATIO (H:V)	12"	18"	24"
0% TO <2%	0 TO <50:1	250'	300'	350'
≥2% TO <10%	≥50:1 TO <10:1	125'	200'	25'
≥10% TO <20%	≥10:1 TO <5:1	100'	150'	200'
≥20% TO <50%	≥5:1 TO ≥2:1	50'	75'	100'

**FILTER SOCK DETAIL**  
SCALE: NONE



- NOTES:**
- ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED.
  - INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
  - NOT ALL ITEMS SHOWN MAY APPLY OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.

**INLET PROTECTION DETAIL**  
SCALE: NONE

- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SEED BED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED BETWEEN MARCH 1 AND MAY 31 OR AUGUST 1 AND SEPTEMBER 30. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEEDING SHOULD NOT BE APPLIED BETWEEN OCTOBER 1 AND NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. IF SEEDING MUST OCCUR, INCREASE THE SEEDING RATE BY 50% AND ANCHOR. APPLY ADDITIONAL MULCH AND IRRIGATION AS REQUIRED TO ENSURE GERMINATION.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS.
- SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF SEEDING. DURING THIS PERIOD INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION.

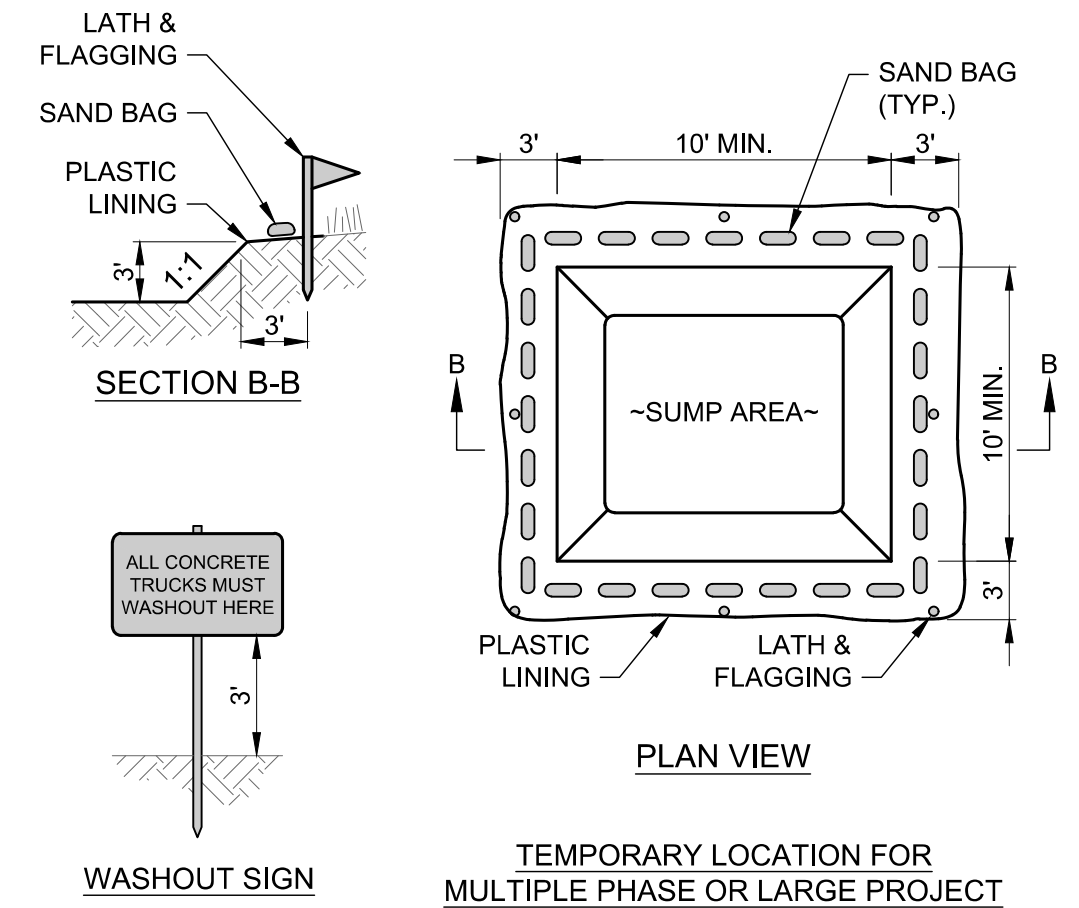
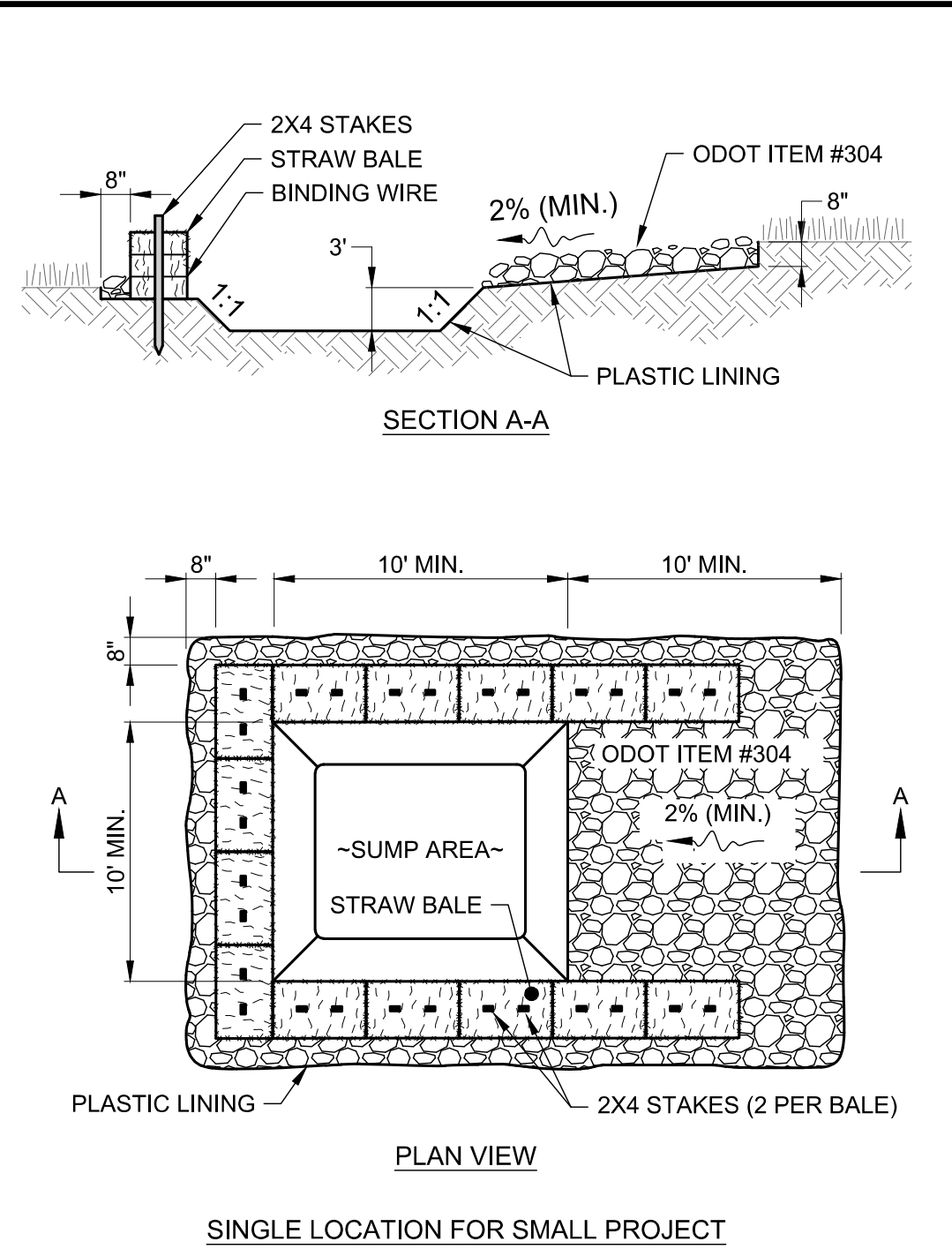
**PERMANENT SEEDING FERTILIZATION AND MOWING CHART**

MIXTURE	FORMULA	LB/ AC.	TIME	MOW
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	≥3"
TALL FESCUE	10-10-10	500		≥4"
TURF-TYPE FESCUE	10-10-10	500		
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND YEARLY AFTER ESTABLISHED	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400		

**PERMANENT SEEDING SPECIES SELECTION**

SEED MIX	SEED RATE LB./AC.	NOTES:
GENERAL USE		
CREeping RED FESCUE	20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH <2.0 FT./SEC. VELOCITY
DOMESTIC RYEGRASS	10 - 20	
KENTUCKY BLUEGRASS	20 - 40	
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEEP BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH	10 - 20	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
FLAT PEA	20 - 25	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
ROAD DITCHES AND SWALES		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
KENTUCKY BLUEGRASS	5	
LAWN		
KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL RYEGRASS	100 - 120	
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
CREeping RED FESCUE	100 - 120	

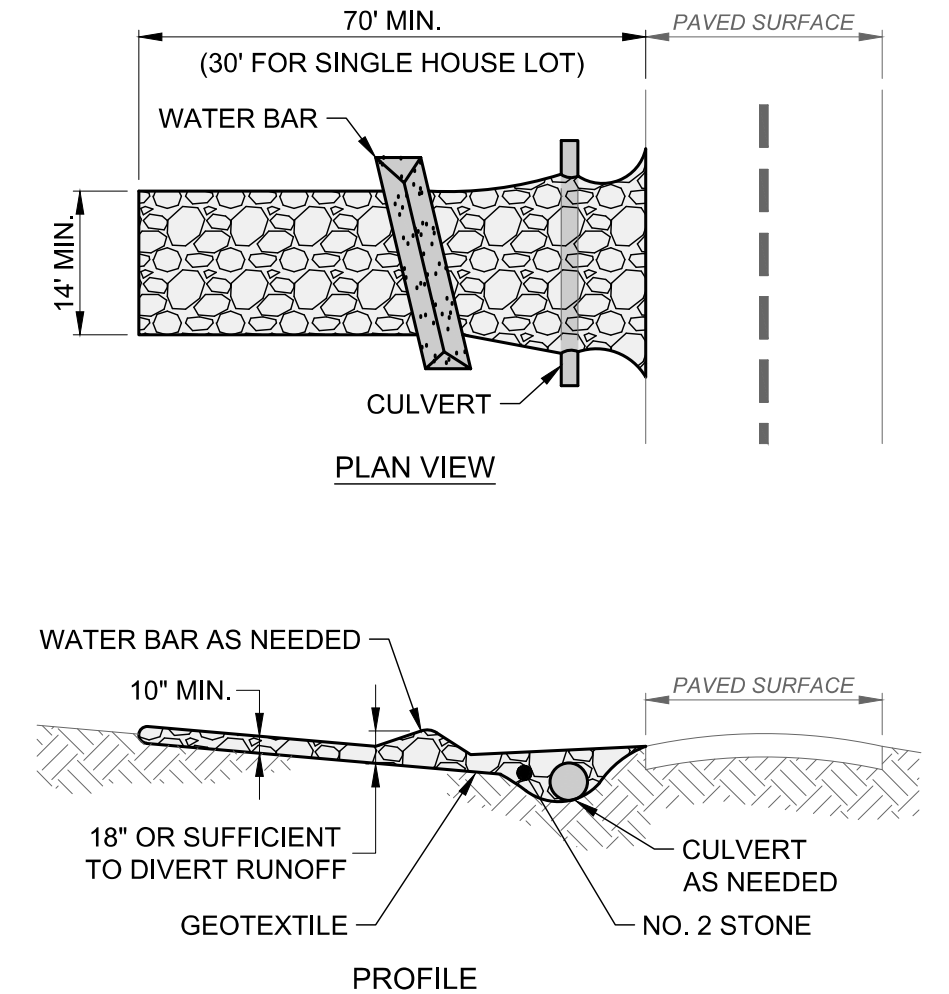
**PERMANENT SEEDING NOTES**



- NOTES:**
- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS OF THE STATE.
  - IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
  - CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONTAINERS WASHOUT AREAS.
  - PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
  - CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
  - CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
  - PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
  - CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

**CONCRETE WASHOUT DETAIL**  
SCALE: NONE

- MULCHING NOTES**
- MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:
    - UNROTTED SMALL GRAIN STRAW SPREAD UNIFORMLY AT 2 TONS/AC. (2 TO 3 BALES).
    - WOOD-CELLULOSE FIBER (I.E. HYDROSEEDING) APPLIED AT 1 TON/AC.
    - ROLLED EROSION CONTROL PRODUCT OR MULCH MATTING APPLIED PER MANUFACTURER RECOMMENDATION.
    - WOOD MULCH OR CHIPS APPLIED AT 6 TONS/AC.
  - MULCH SHALL BE ANCHORED IMMEDIATELY BY ONE OF THE FOLLOWING METHODS:
    - PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL USING A DISK, CRIMPER OR SIMILAR TOOL.
    - NETTING PER MANUFACTURER RECOMMENDATION IN CONCENTRATED RUNOFF AREAS OR CRITICAL SLOPES.
    - SYNTHETIC BINDERS AT MANUFACTURER RATE.
    - WOOD-CELLULOSE FIBER BINDER AT A NET DRY WEIGHT OF 750 LB/AC., MIXED WITH WATER, AND CONTAIN 50 LB/100 GAL. MAX. OF WOOD CELLULOSE FIBER.



- NOTES:**
- GEOTEXTILE SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS MEETING THE FOLLOWING:
  - INSTALL WATER BAR, AS NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING OUT ONTO PAVEMENT.
  - APPLY ADDITIONAL STONE AS CONDITIONS DEMAND, REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6", AND REPLACE IF STONES BECOMES MUD-LADEN.
  - IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
  - CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
  - CONSTRUCTION ENTRANCE SHALL REMAIN UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY.

**CONSTRUCTION ENTRANCE DETAIL**  
SCALE: NONE



DATE	REVISION	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			03/24/2026			LMM	LMM	PAB

**WILLOWICK CITY HALL**  
**PARKING LOT IMPROVEMENTS**  
30435 LAKESHORE BLVD.,  
WILLOWICK, OH 44095  
LAKE COUNTY, OHIO  
CITY OF WILLOWICK

**E&S DETAILS**

PROJECT NO.	32356
DISCIPLINE	CIVIL
SHEET NAME	C0-15
SHEET	OF
17	17