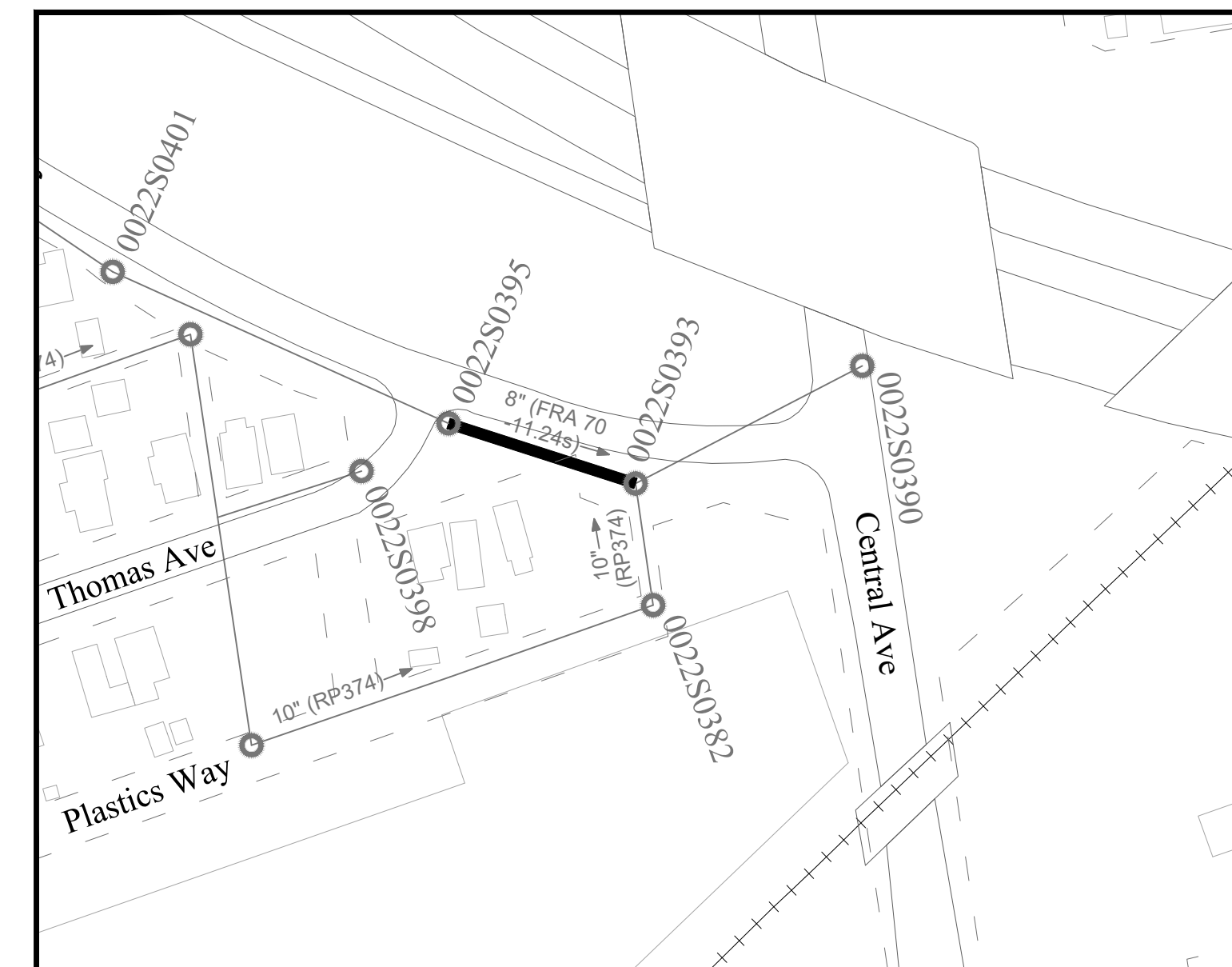
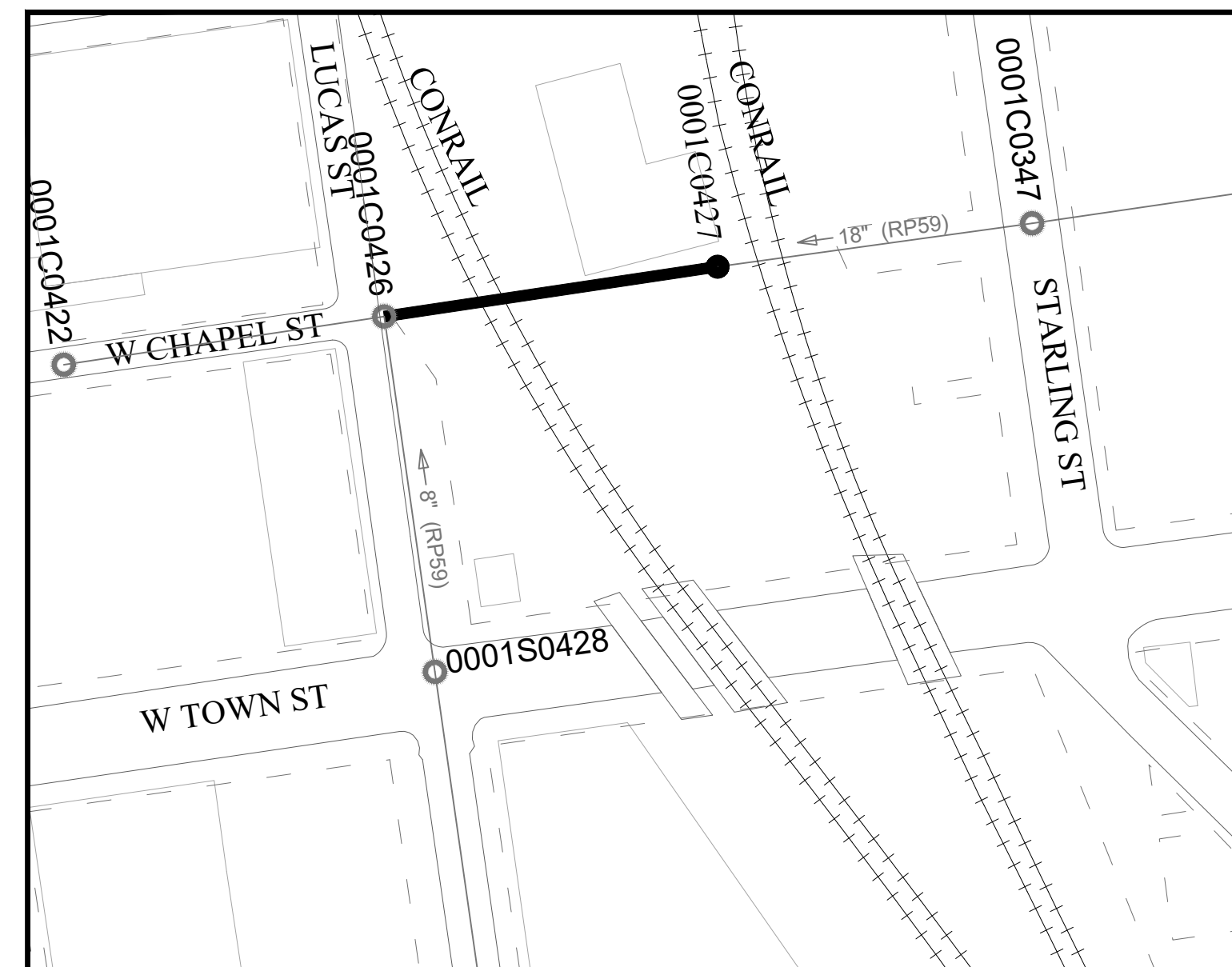
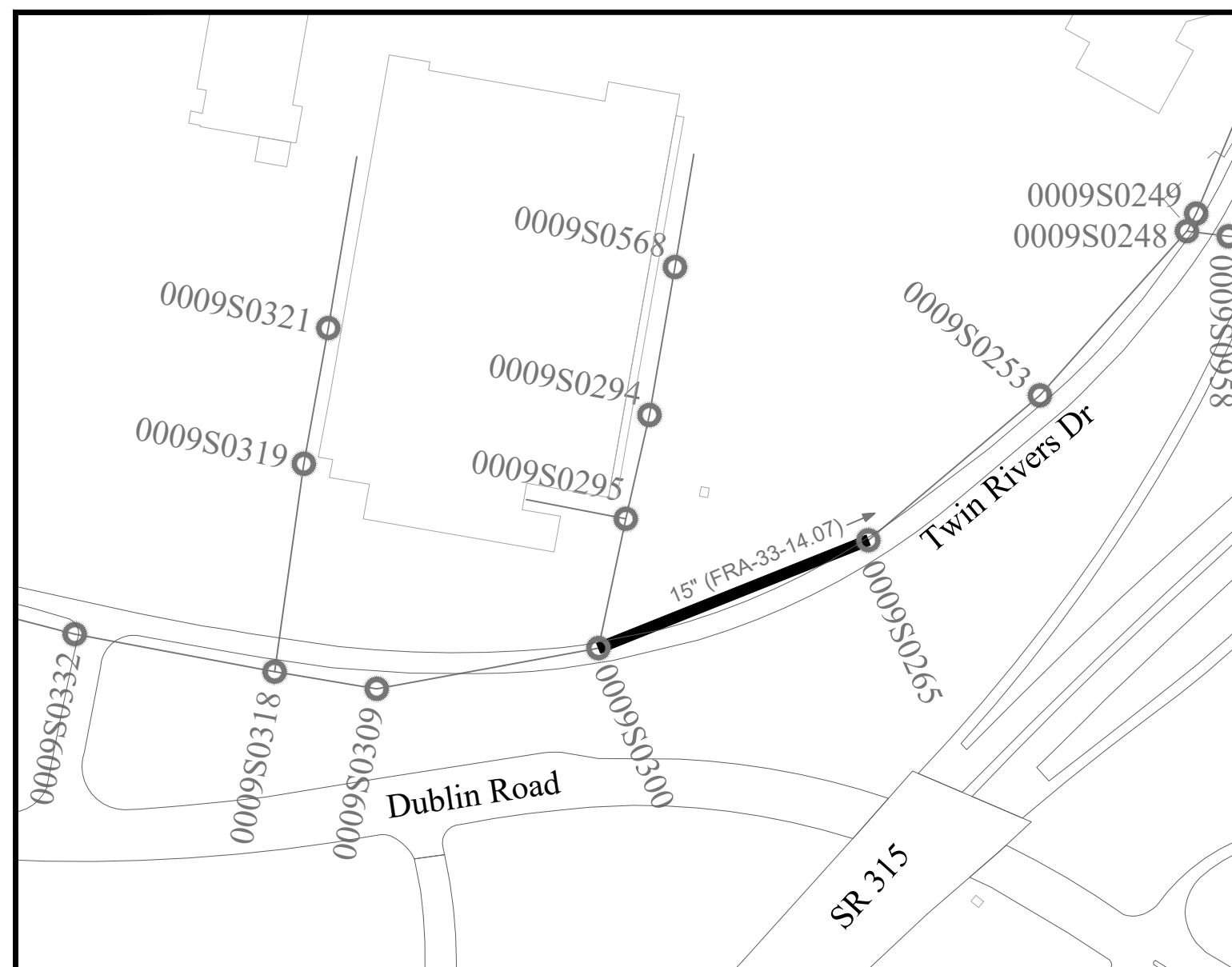
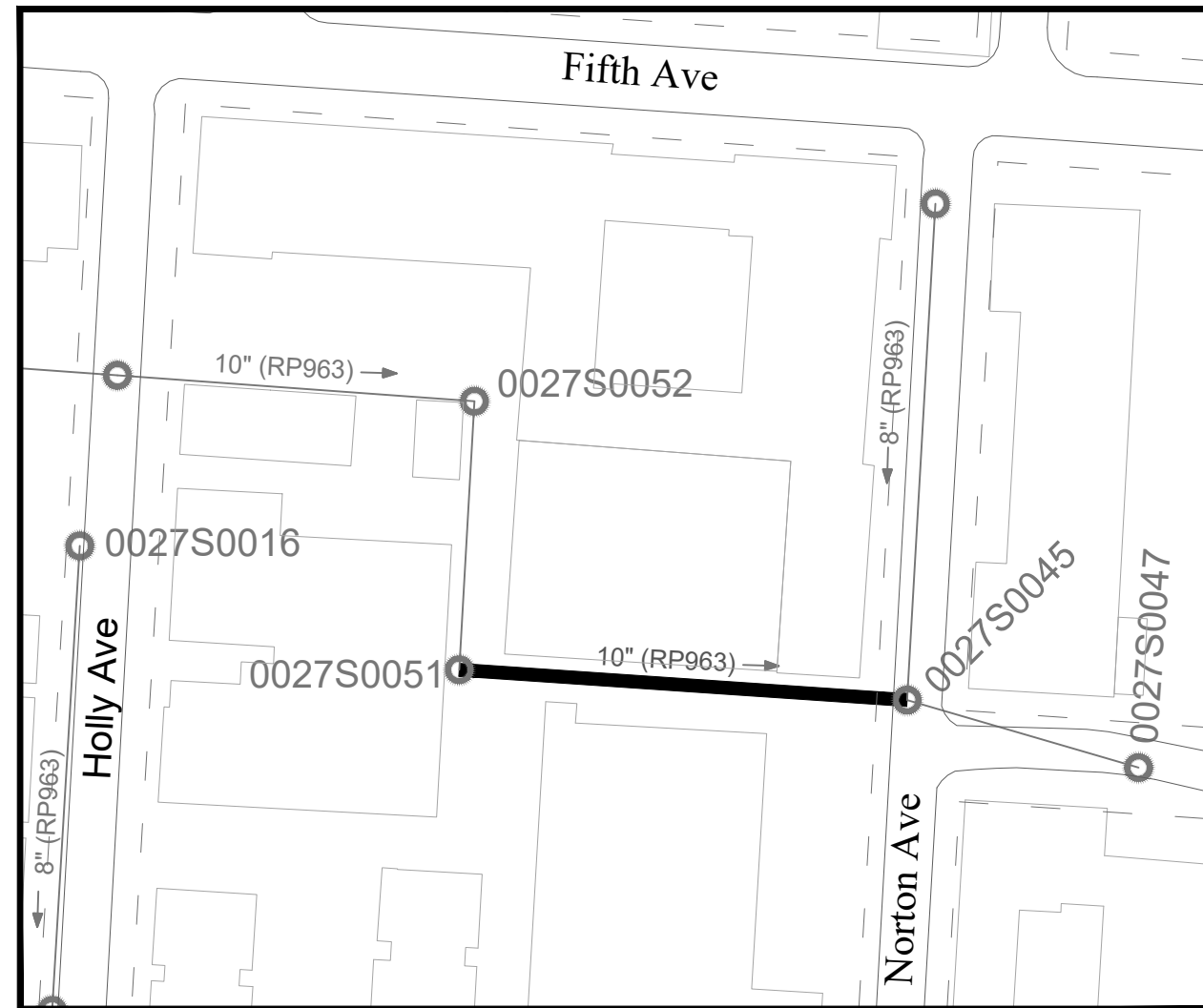


# SANITARY SEWER LINING CONTRACT (2021-2023) CIP 650403-100001



**INDEX OF SHEETS**

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NOTE: LOCATIONS OF MANHOLES AND SEWERS SHOWN IN THESE PLANS ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE OR CORRECT.

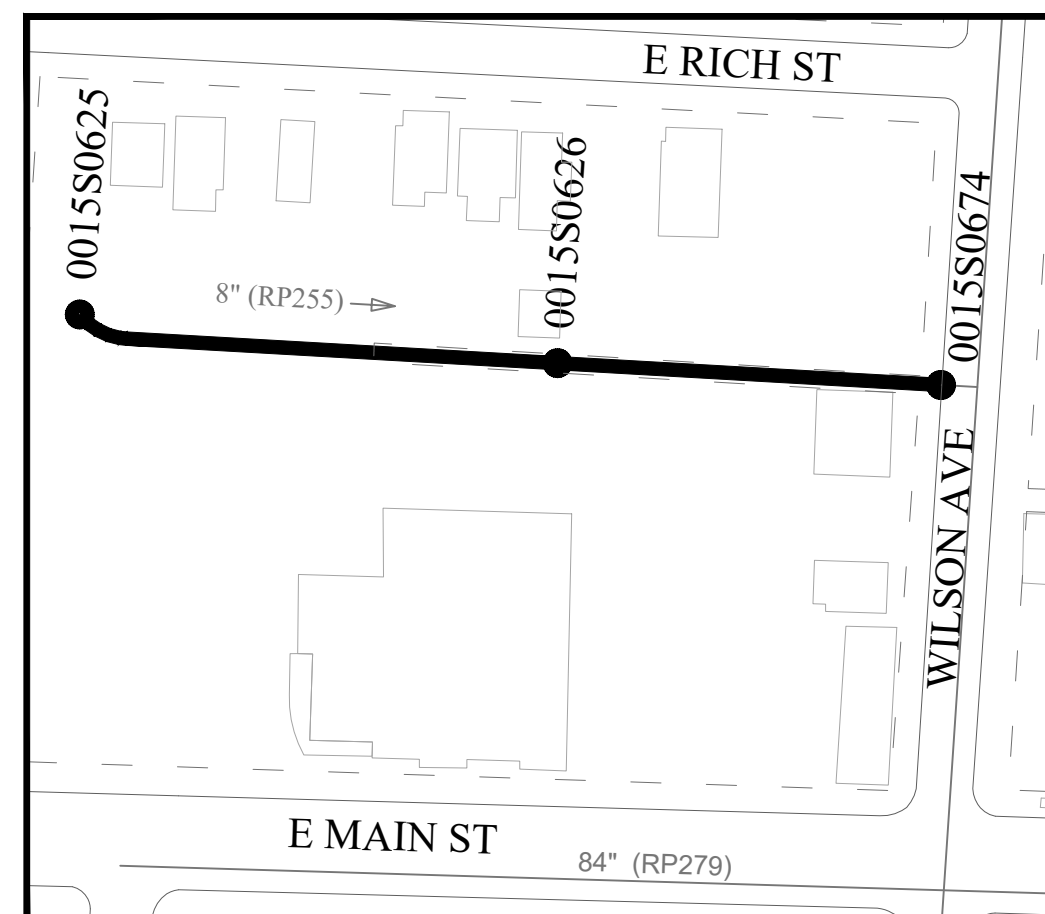
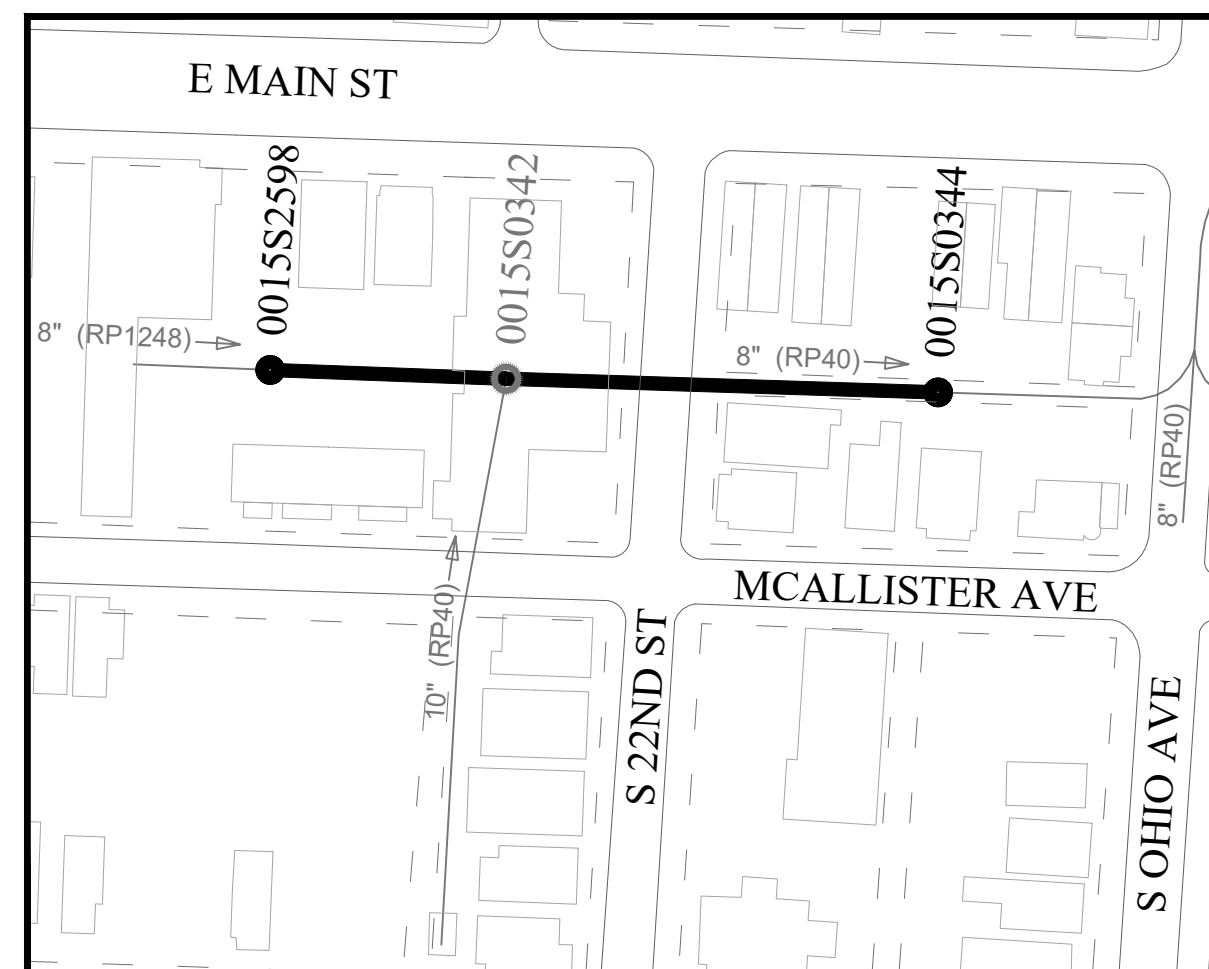
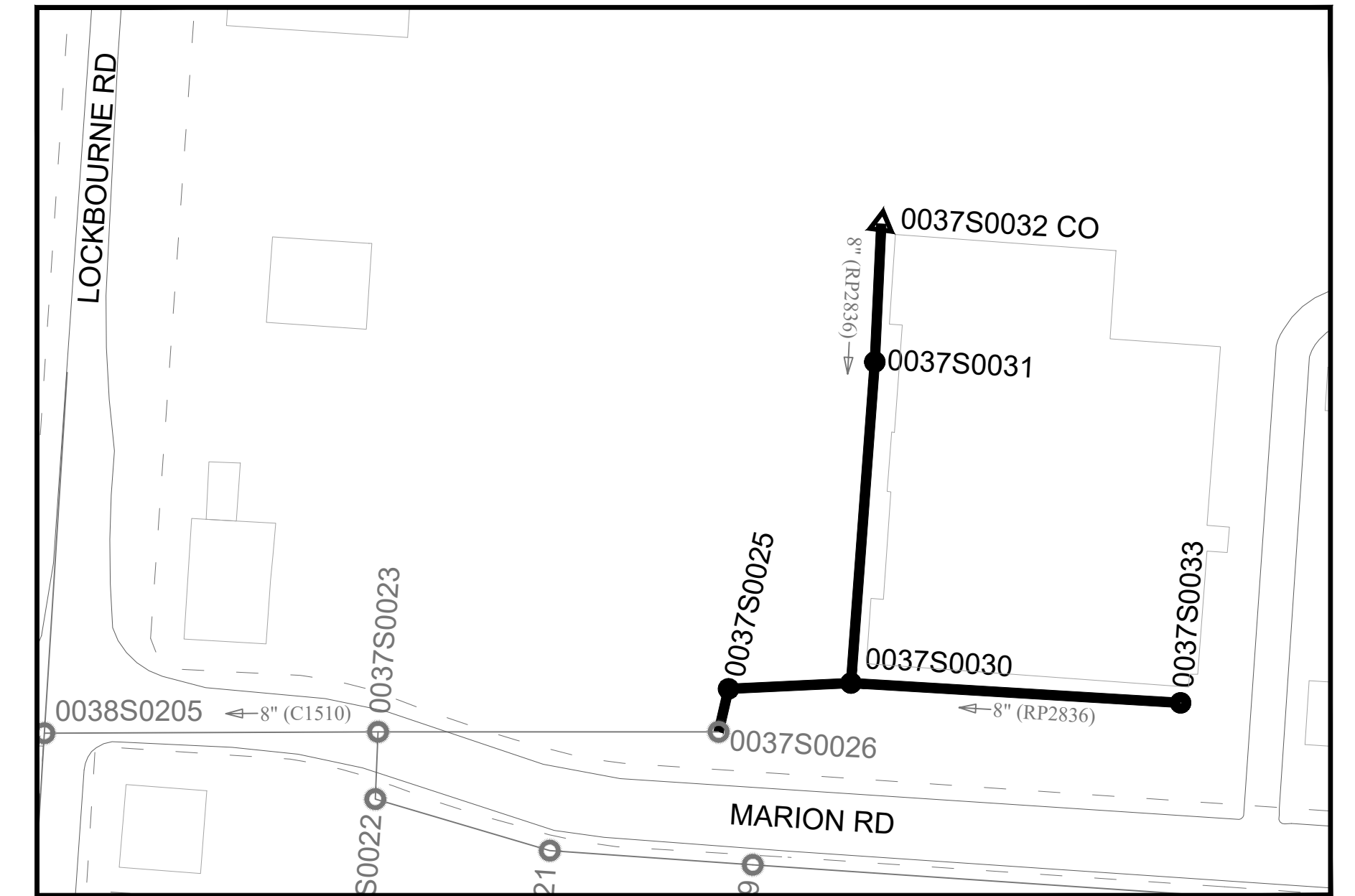
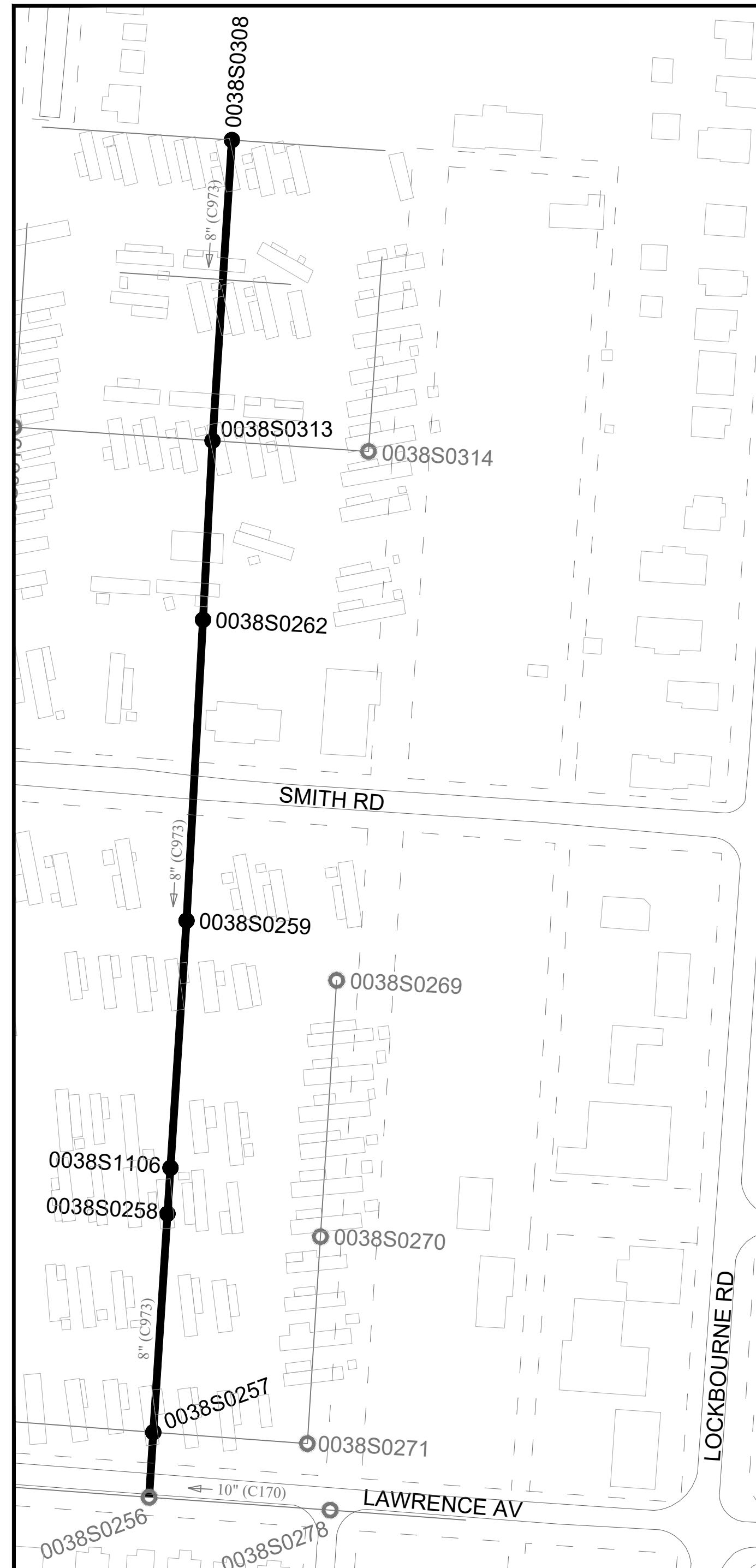
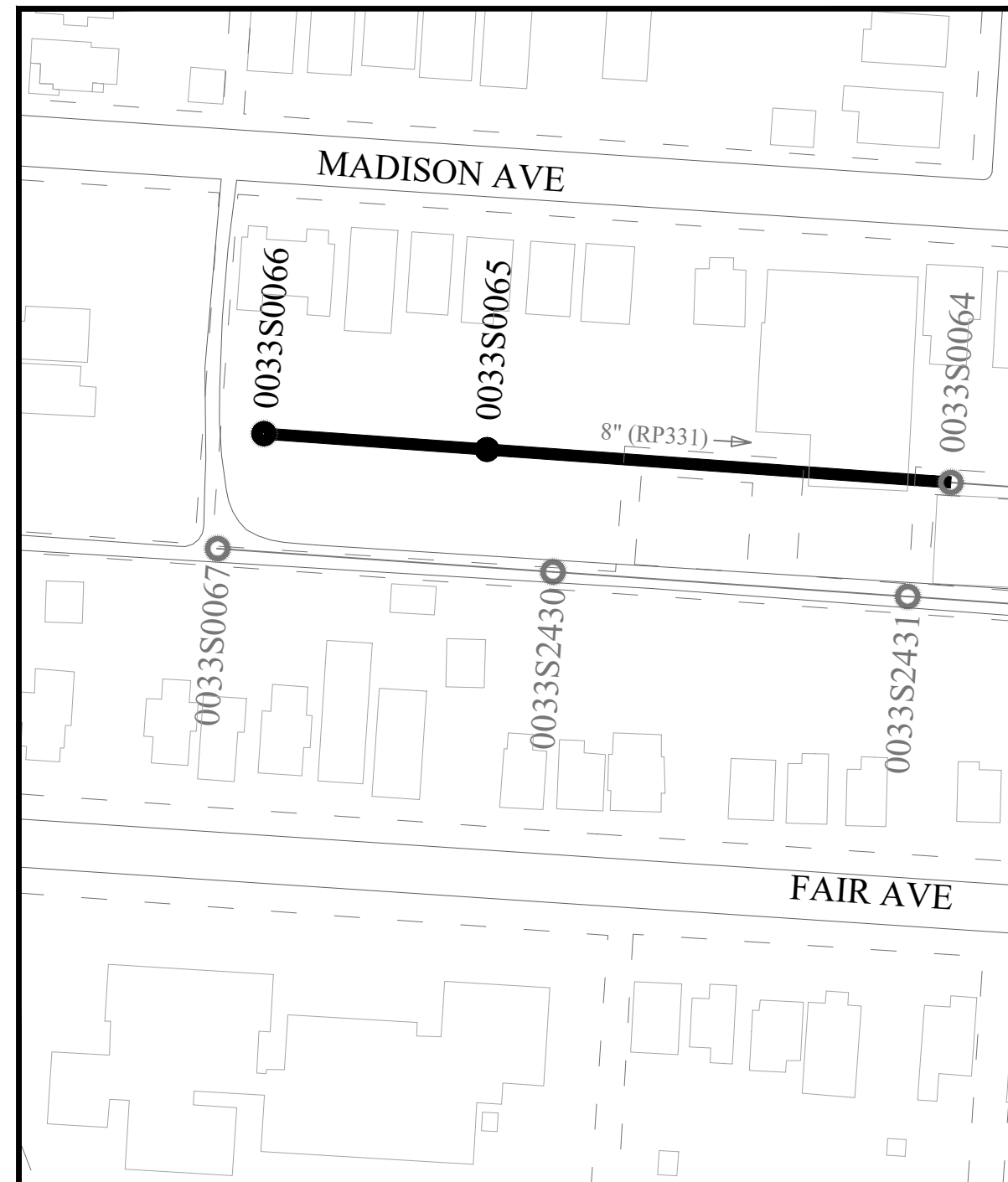
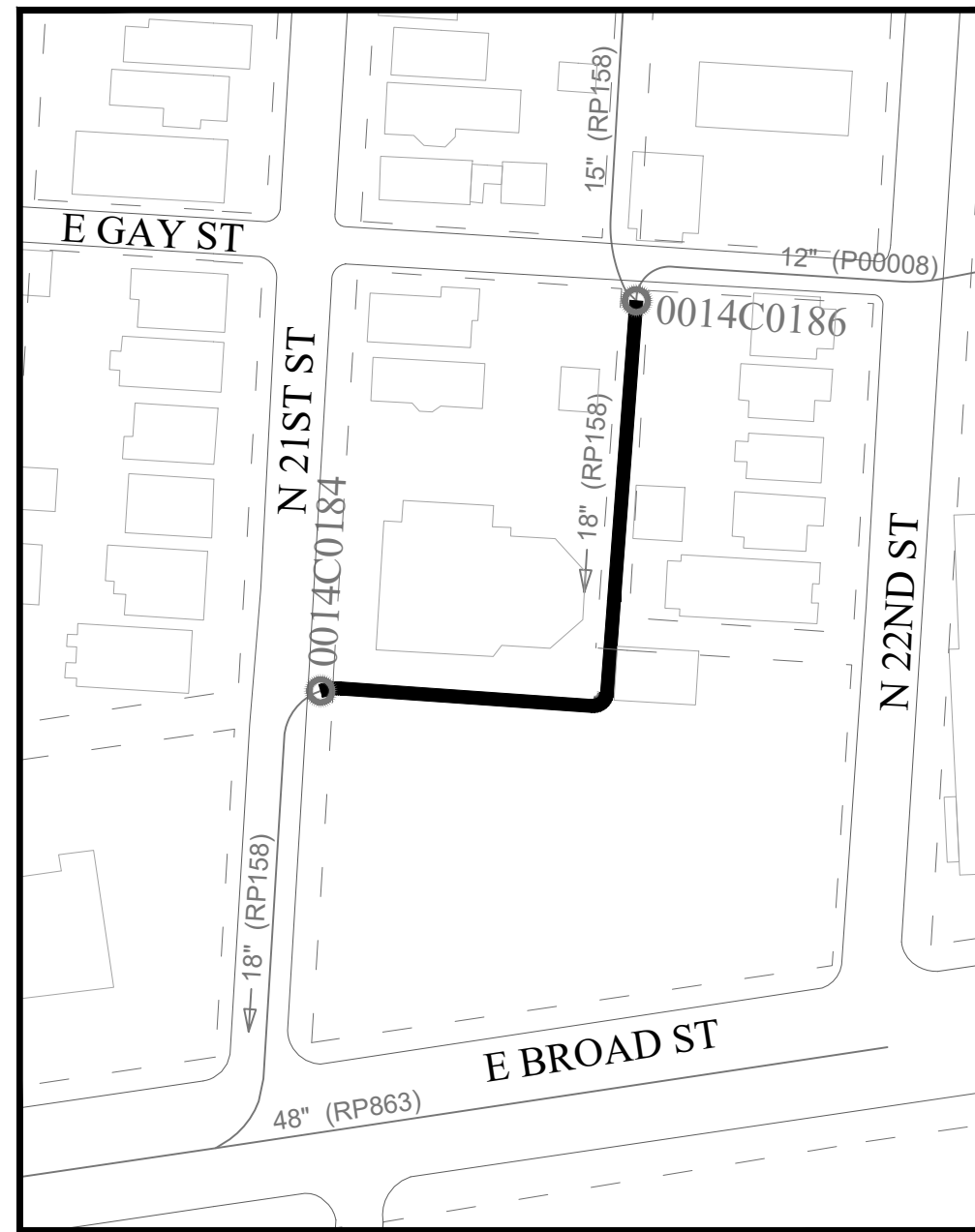
**LEGEND**

- SEWER TO BE CIPP LINED
- SEWER TO BE CLEANED AND TELEVIEWED
- MANHOLE TO BE REHABILITATED
- EXISTING MANHOLE
- (RP1231) RECORD PLAN NUMBER
- 0005S0495 MANHOLE REFERENCE NUMBER
- RIGHT-OF-WAY
- CLEANOUT

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER		NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE			
GRANTOR					

TITLE SHEET / MISCELLANEOUS SITES

PROJECT TITLE: <b>SANITARY SEWER LINING CONTRACT (2021-2023) CIP 650403-100001</b>		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
AGREEMENT		COMPLETED	
RPD	CKD	CLD	CON. DR.
INDEX DETAIL		RECORD FILE	
SCALE: 1"=100'		SHEET: 1/5	
CONTRACT DRAWING NO. <b>CC 19237</b>		RECORD PLAN NO.	

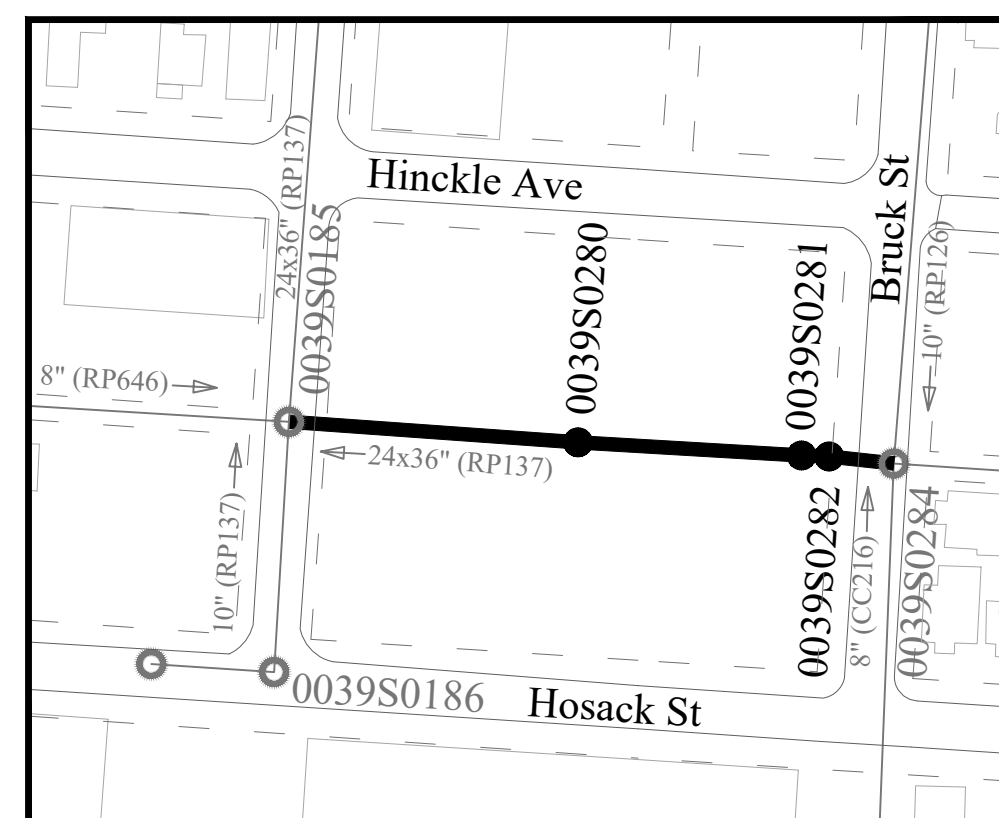
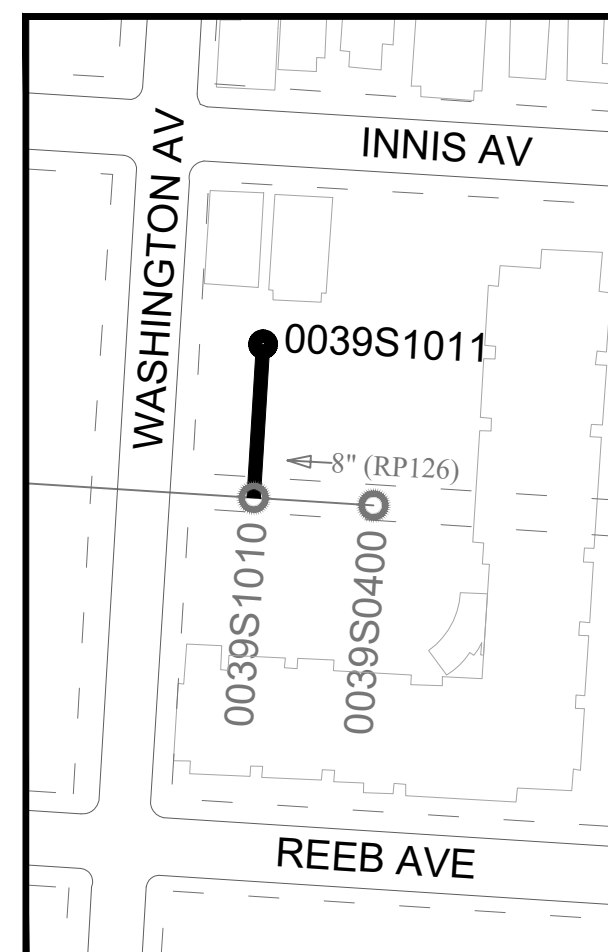
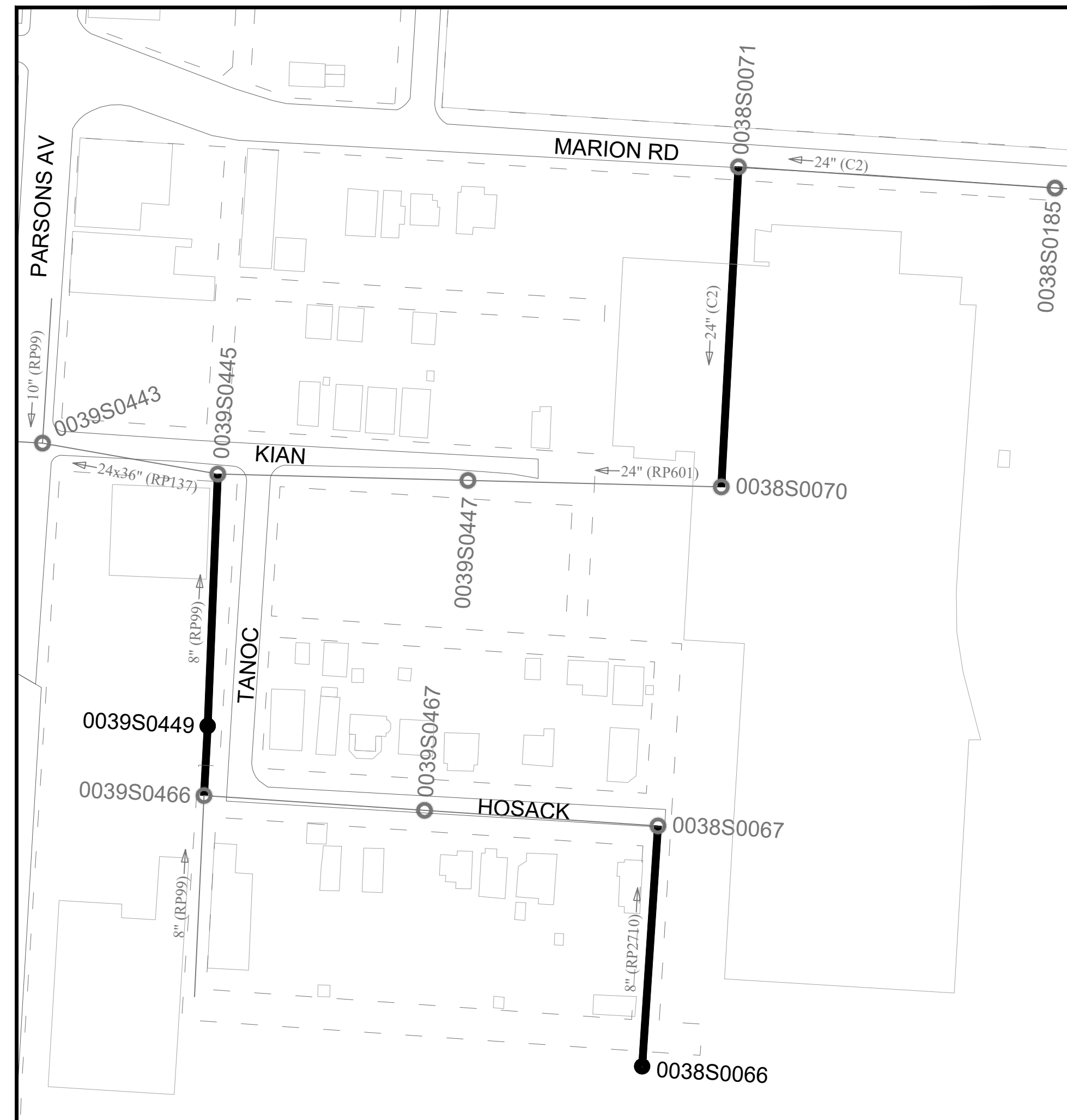
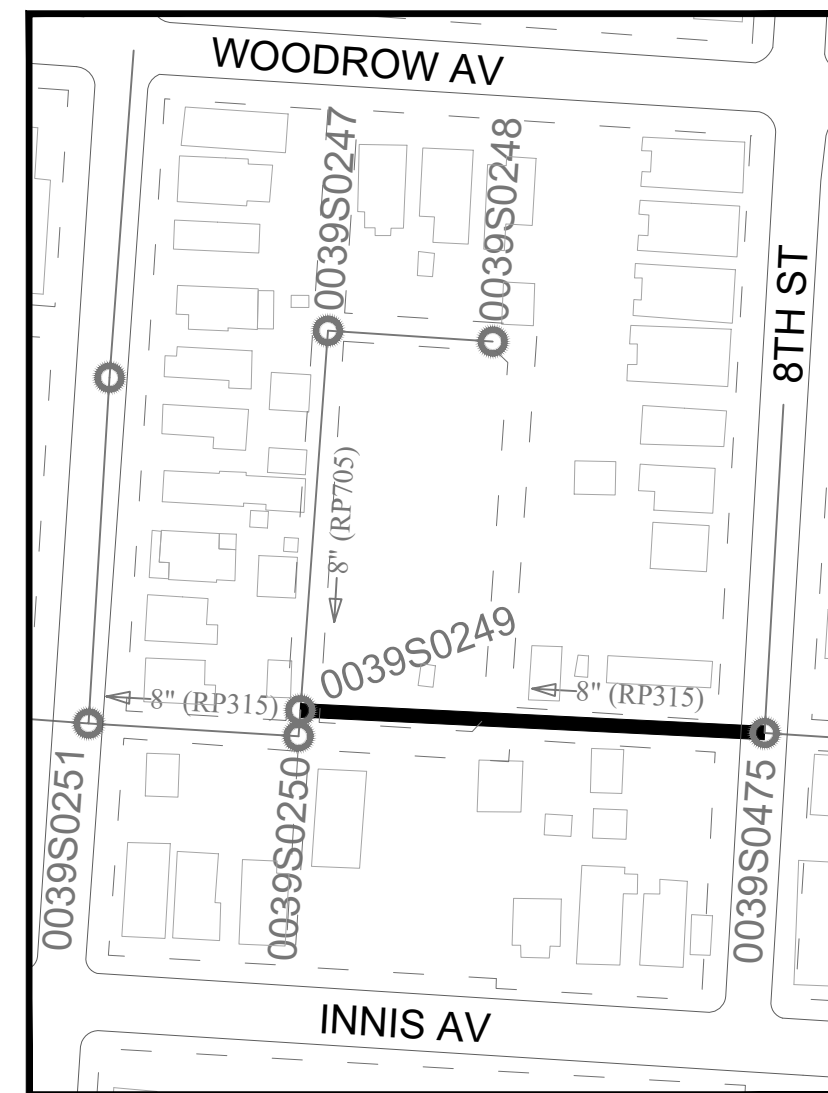
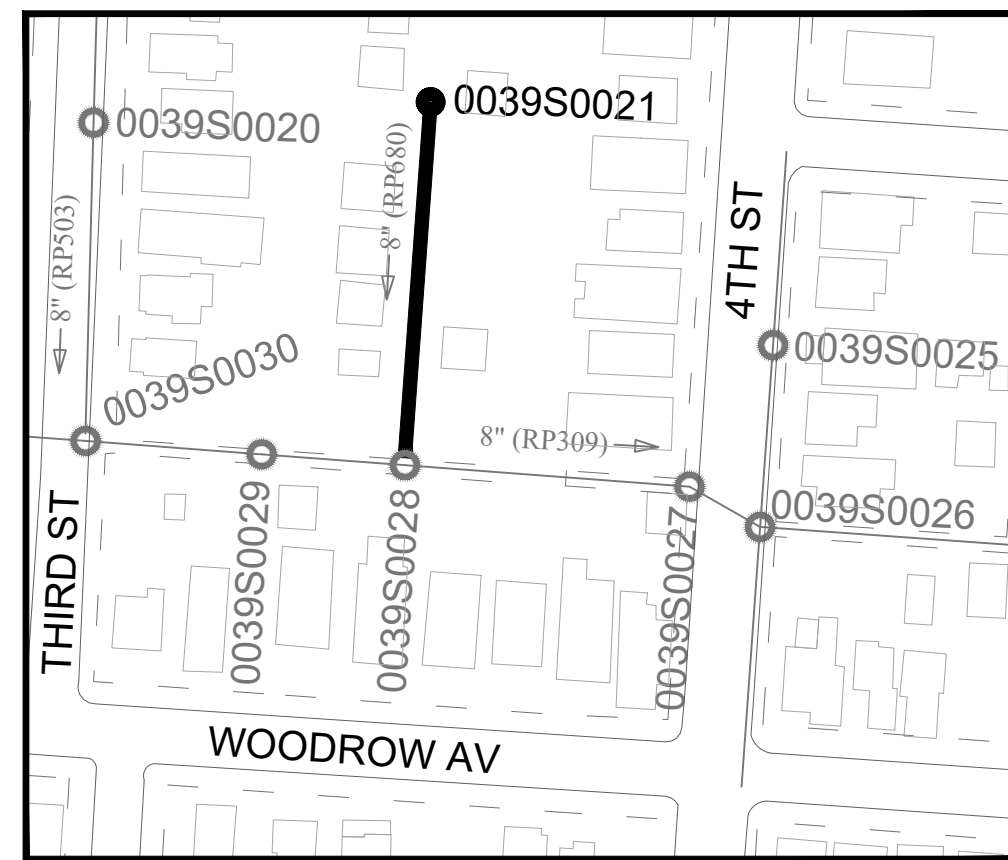


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MISCELLANEOUS SITES

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GRANTOR					

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DIVISION USE ONLY			OWNER			SCALE: N.T.S.		SHEET: 2/5	
			CONTRACTOR						
			INSPECTOR						
			AGREEMENT		COMPLETED		CONTRACT DRAWING NO.		RECORD PLAN NO.
			RPD	CKD	CLD	CON.	DR.	CC 19237	
			INDEX DETAIL		RECORD FILE				



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	VOL.	PAGE				

MISCELLANEOUS SITES

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DIVISION USE ONLY			OWNER		
			CONTRACTOR		
			INSPECTOR		
AGREEMENT		COMPLETED			
RPD	CKD	CLD	CON.	DR.	
INDEX DETAIL		RECORD FILE			

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>		SCALE: N.T.S.	SHEET: 3/5
CONTRACT DRAWING NO. <b>CC 19237</b>		RECORD PLAN NO.	

GENERAL NOTES

1. Work Modifications. Any modifications to the specifications or changes to the work as shown on the Drawings must have prior written approval by the Administrator, Division of Sewerage and Drainage.
  2. Excavation Permit. When excavating within the public right of way limits, it is necessary to obtain an excavation permit from the Department of Public Service Permit Office between the hours of 7:30 AM - 4:00 PM, Mon-Fri, (614) 645-1876.
  3. Sewer Maintenance Notification. The Contractor shall notify the Division of Sewerage and Drainage at least 24 hours in advance of the anticipated start of construction by calling (614) 645-7102 during the hours of 7:30 AM - 5:00 PM, Mon-Fri.
  4. Manhole Frames and Covers. For any new or modified manholes, the top of manhole castings shall be set flush with the existing surface. The Contractor is responsible for field verifying the top of casting elevations prior to ordering materials.
  5. Protruding Taps. All protruding lateral taps shall be removed flush with the wall of the mainline sewer prior to installation of the CIPP liner. Care shall be taken to ensure that the lateral sewer is not damaged beyond the connection point to the main. Cost to be included in the unit price bid for cured-in-place pipe rehabilitation.
  6. Street Restoration. Repavement of disturbed areas in arterial streets shall be the same day as completion of pipe installation in a particular area and in accordance with pavement and utility cut repair standards, 1441 DR. A.
- Pavement striping shall be installed to the same pattern as the existing markings using thermoplastic materials in accordance with Item 644. Cost for all striping work shall be included as a lump sum under Item 614, "Maintaining Traffic".
- Any components of the traffic control system that are damaged or removed shall be replaced in accordance with the traffic control notes. Cost of this work (including surface restoration) shall be at the Contractor's expense and shall not be paid for by the owner.
7. Clean Water Connections Prohibited. Roof drains, foundation drains, and other clean water connections to the sanitary system are prohibited on this project.
  8. Compliance with Federal, State and Local. The Contractor and subcontractor shall be solely responsible for complying with all Federal, State and Local safety requirements, together with exercising precautions at all times for the protection of persons (including employees) and property. It is also the sole responsibility of the Contractor and subcontractor to initiate, maintain and supervise all safety requirements, precautions, and programs in connection with the work.
  9. Forester Notification. The Contractor is hereby notified to contact the City Forester of the recreation and Parks Department (phone: (614) 645-3350) 24 hours prior to any construction in or near city of Columbus park property.
  10. Confined Space Entry. The Contractor shall follow the OSHA requirements for "Confined Space Entry," Title 29 of the Code of Federal Regulations, Part 1910.146 while performing work inside any manhole or other permit required confined space.
  11. Approval Requirement. All concrete pipe, storm and sanitary sewer structures will be stamped or have such identification noting that said pipe, storm and sanitary structures have been inspected by the designated representative of the City of Columbus and meets their specifications. Pipe and structures without proper identification will not be permitted for installation.
  12. Contract Work Performed by the City. In the event that it becomes necessary for the City to perform work of an immediate nature (such as the placement of barricades or replacement of signs or other warning or protective devices) required of the Contractor by this contract because of failure or refusal of the Contractor to perform such work, the Contractor by this contract shall reimburse the City at the rate of 2.5 times the actual cost of labor, materials, and equipment necessary to perform such work. If the Contractor refuses or fails within a reasonable time to perform or cause the performance of such work, the City shall be reimbursed by the Contractor by way of a deduction from the Contractor's net payment under the contract. Reasonable time for all streets involved on this contract is a maximum of 4 hours from the time of notification by the City.
  13. Dewatering. Should water be encountered, the Contractor shall furnish and operate suitable pumping equipment of such capacity adequate to dewater the trench. The trench shall be sufficiently dewatered so that the placement of bedding and laying and joining of the pipe or manhole is made on firm, dry ground. The Contractor shall convey all trench water to a natural drainage channel or storm sewer without causing any damage to the property. Dewatering costs will be included in the various items of the contract. If dewatering cannot produce an acceptable subgrade, then unsuitable materials shall be removed and replaced per Item 906, Stone Foundation, as directed by the Engineer. If this item should be necessary, cost would be negotiated and paid under Force Account.
  14. Non-rubber Tire Vehicles. No non-rubber tire vehicles shall be moved on City streets. Exceptions may only be granted by the owner where short distances and special circumstances are involved. Granting of exceptions must be in writing and any resulting damage must be repaired to the satisfaction of the appropriate jurisdiction.
  - 15 Work Limits. All work performed and all equipment, materials, vehicles, etc. used to carry out the work, shall be kept within the street rights-of-way as shown on the plans.
  16. Residual Grout. Contractor shall not allow residual grout in the grouting hoses to be blown out into the sewer. All residual grout shall be removed and disposed of.
  17. Rebound Clean-up. Contractor shall insure that all rebound of sprayed cementitious material shall be cleaned up and removed from the sewer.
  18. General work hours on this project shall be as described in Sections 108.04 of the CMSC.
  19. Fire hydrant permits may not be available in project limits. Contractor shall contact the Division of Water to locate hydrants available for use prior to bidding. All costs associated with trucking water to the project site shall be included in the lining costs.
  20. **Manholes shall be constructed at the following locations.** Depths shown are approximate, the Contractor shall field verify actual depths.

Structure #	Depth	Pave/grass	Sheet	Structure #	Depth	Pave/grass	Sheet
0037S0032	7	G	2	-----	--	--	--
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Item 604, Manholes, in Pavement: This line item is payment for constructing a manhole in paved area. Payment shall be for all labor, materials, and equipment to install the manhole complete in place including but not limited to excavation, right of entry, pavement removal, remove and dispose of cleanout and excess materials, manhole, frame and cover, channel construction, steps, pipes, couplings, bedding, backfill, concrete collar, reinforcing steel, pavement, heat weld, flexible chimney seal. No other payment shall be made.

Item 604, Manholes, in Grass: This line item is payment for constructing a manhole in grass area. Payment shall be for all labor, materials, and equipment to install the manhole complete in place including but not limited to excavation, right of entry, remove and dispose of cleanout and excess materials, manhole, frame and cover, channel construction, steps, pipes, couplings, bedding, backfill, flexible chimney seal. No other payment shall be made.

RESTORATION NOTES

1. All curbs, pavement or sidewalks damaged or removed as a result of the Contractor's operations outside the excavation limits delineated on the plans shall be replaced using the same type material and of the same dimensions as that removed at the Contractor's own expense. Sidewalks shall be removed from existing joints and replaced in accordance with Standard Construction Drawing 2300 DR. A. In the 10' x 10' work limits around manhole frames, the backfill shall be 912 granular backfill and pavement replacement per 1441 DR. A, and will be paid under the appropriate pay item.
2. Open Excavations: All excavations shall be maintained as safe as possible by the Contractor at all times and backfilled as soon as practical. Open excavations after work hours require traffic plates, and/or lighted barricades and construction fence.
3. All trees, whether shown or not shown on the plans, are to be preserved unless approval to remove is given by the City or their removal has been designated on the plans. The Contractor shall use special precautions to avoid damage to all other trees. when required, limbs shall be carefully and neatly pruned and painted with a sealing compound in accordance with Items 107.12 and 201 of the CMSC.
4. The Contractor shall be responsible for the cost of replacement or repair of all property damaged or removed during construction to its former condition and to the satisfaction of the property owner. Such items include but are not limited to fences, gates, mailboxes, landscaping and buildings.
5. Trench Maintenance. The Contractor shall be responsible for the condition of the trenches for a period of 1 year from the date of final estimate.

EXISTING UTILITY NOTES

1. The Contractor is responsible for the investigation, location, support, protection, and restoration of all existing utilities and appurtenances whether shown on these plans or not. The Contractor shall expose all utilities or structures prior to construction to verify the vertical and horizontal effect on the proposed construction. The Contractor shall call, toll free, the Ohio Utilities Protection Service (1-800-362-2764) 72 hours prior to construction and shall notify all utility companies at least 48 hours prior to work in the vicinity of their underground lines. The owner of the underground facility should, within seventy-two (72) hours, excluding Saturdays, Sundays and legal holidays, after notice is received, stake, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they are installed. The marking of locations shall be coordinated to stay approximately two working days ahead of the planned construction.

The following City of Columbus utilities might be located within the work limits of this project and do not subscribe to registered underground protection services:

Division of Traffic Management 1820 Seventeenth Ave Columbus, Ohio 43219 (614) 645-7393	Telecommunications Division 4211 Groves Rd Columbus, Ohio 43232 (614) 645-7756	Communications Division 90 W Broad St Columbus, Ohio 43232 (614) 645-7344
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2. Support protection, and restoration of all existing utilities and appurtenances, whether shown on the plans or not, shall be the responsibility of the Contractor. The cost of this work shall be included in the price bid for the various items.

3. The work of this contract shall not interfere with maintaining continuous flow in the existing sanitary sewer, storm sewer system, water lines, power, telephone, cable tv, gas or any other system that may be encountered during construction. The Contractor is responsible to maintain all poles and relocate any utility that impedes construction. Nothing shall be done by any other Contractor for this project which will in any way reduce the quality or quantity level of such operations. The Contractor shall notify the owner (1) week prior to modifying any facilities. No payment will be made for any utility maintenance unless specifically noted as a bid item in the proposal.

4. The Contractor must have owner approval and pay all fees prior to connection of his water supply lines to any fire hydrant. The Contractor shall provide the necessary gate valves, backflow preventers, and flow meter for each hydrant connection. All equipment, fittings and valves shall be in accordance with the City of Columbus standards. Use of water from fire hydrants and associated fees are outlined in City of Columbus Rule and Regulation No. 01-01. A copy of this regulation is available from the Division of Water, Permit Office, (614) 645-7330.

5. The Contractor shall provide all labor, material and equipment necessary to replace in part and/or repair any utility line disturbed during construction activities and make them complete and ready for use. The replacement and/or repair of the utility line shall be according to approved standard methods of the industry and meet inspection requirements by the utility company whose line is disturbed. Repair of damaged lines by the Contractor will be paid for only if the service line damaged is not shown on the plans and the utility owner, having been properly notified by the Contractor, failed to mark the location of the service line in the field.

6. Support of existing brick sewers. The contractor shall support the existing sewers during construction of manholes, as necessary, to keep sewers in operation and to assure a sound watertight connection to the base of the manhole upon completion. Any changes to the manhole from the standard type shall be submitted by the Contractor to the Engineer for approval, with supporting calculations sealed by a registered Professional Engineer. In any locations where new sewer pipe is to be connected to an existing manhole or to the main trunk, the existing brick sewer shall be kept sound to the extent possible for a distance of 3 ft. outside of the manhole or main trunk and a collar of reinforced concrete placed to connect the new concrete sewer to the brick. Shop drawings for the connection shall be submitted for review prior to construction.

For the Division of Power

The Division of Power (DOP), City of Columbus, Ohio has overhead primary, secondary and street lighting at various locations along the proposed site. The Contractor is hereby required to contact the DOP by fax (614) 645-7150 (fax) forty-eight hours prior to conducting any activity within the construction area. The DOP dispatch office number is: (614) 645-7627 (voice).

Any required relocation, support, protection, or any other activity concerned with the City's street lighting system in the construction area is to be performed by the Contractor under the direction of DOP personnel and at the expense of the project. For conflicts with DOP primary and other secondary circuits contact the DOP. The Contractor shall conform to the DOP's existing conductor safety policy and hold card system, copies of which are available from the DOP. If you have any questions, call Chris Vogel at (614) 645-6963.

If any electric facility belonging to the DOP is damaged in any manner by the Contractor, it's agents, servants, or employees and requires emergency repairs, the DOP shall make all necessary repairs, and the expense of such repairs and other related costs shall be paid by the Contractor to the DOP, City of Columbus, Ohio.

STANDARD DRAWINGS

The following City of Columbus Standard Drawings shall be considered a part of this contract.

Type "C" Manhole	AA-S102
Typical Assembly Combinations for Precast Manhole	AA-S106
Miscellaneous Items Precast Manholes	AA-S107
Std. Dimensions for Sanitary Manhole	AA-S111
Precast Manhole Base Channelization Detail	AA-S117
Manhole Steps Detail	AA-S119
Type I Bedding for Flexible Sewer Pipes	AA-S149
Type I Bedding for Rigid Sewer Pipe	AA-S151
Type II Bedding for Rigid Sewer Pipe	AA-S153
Typical Sanitary House Connection Service	AA-S160
Typical Tee Riser	AA-S162
Pre-cast Manhole Rehabilitation	AA-S171
Brick Manhole Rehabilitation	AA-S172
Manhole Reconstruction & Rehabilitation	AA-S173
Pavement and Utility Cut Repair	1441 DR. A.
Typical Water Line Lowering	L-7401

ENVIRONMENTAL PROTECTION MEASURES

Erosion and Sedimentation Control

1. Land-disturbing activities must comply with all provisions of the Division of Sewerage and Drainage erosion and sediment control regulation. All land-disturbing activities shall be subject to inspection and site investigation by the City of Columbus and/or the OEPA. Failure to comply with these regulations is subject to legal enforcement action.

All erosion control and sediment control practices are subject to field modification at the discretion of the City of Columbus and/or the Ohio EPA.

2. Silt barriers shall be installed by the Contractor to prevent sediment-laden runoff from entering the storm sewers in the event of rainfall.

3. Contractor shall remove daily all mud, soil, and debris that may be tracked onto existing streets, drives, or walks 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 areas. Erosion control measures at the disposal site must be installed and maintained until disposal is complete and the disposal site is permanently stabilized.

5. If work is suspended for any reason, the Contractor shall maintain the soil erosion and sedimentation controls in good operating condition during the suspension of the work. Also, when seasonal conditions permit and the suspension of work is expected to exceed a period of one month, the Contractor shall place topsoil, fine grade, seed, fertilize, and mulch all disturbed areas left exposed when work is stopped.

Air Pollution / Noise Control

1. Construction equipment shall be provided with intake silencers and mufflers, as required by safety standards.

2. All Construction vehicles shall be equipped with proper emissions control equipment.

3. All equipment and machinery shall be maintained to minimize exhaust emissions and noise.

Prohibited Construction Activities

1. Disposing of excess or unsuitable excavated material or trees, brush, and other debris in any stream corridor, any wetlands, any surface waters, or at unspecified locations is prohibited.

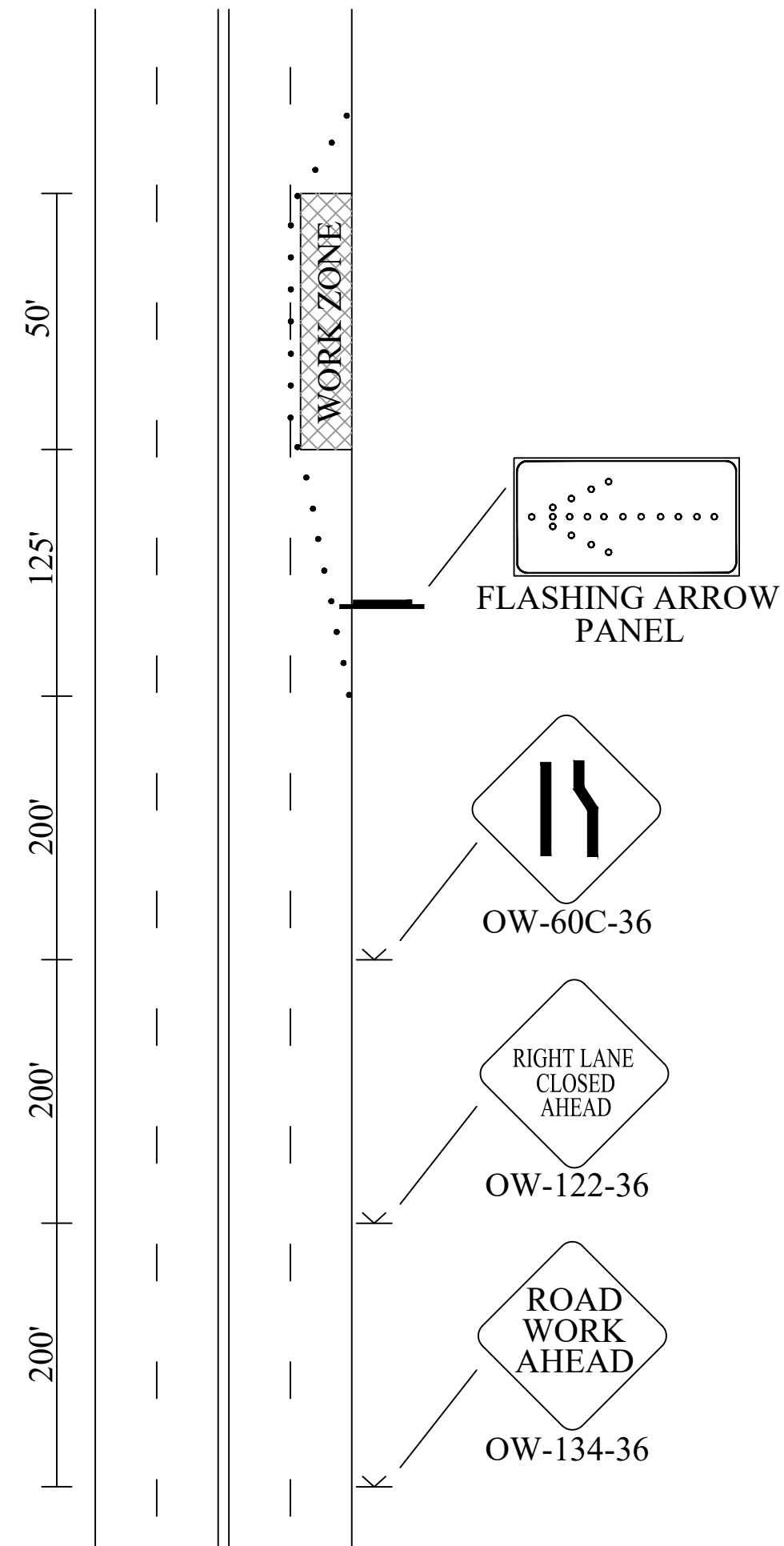
2. Stockpiling materials or storing construction equipment and vehicles on property not specified on the plans or by the Engineer for such purposes is prohibited.

3. Indiscriminate, arbitrary, or capricious operation of equipment in any stream corridors, any wetlands, any surface waters, or outside the easement limits is prohibited.

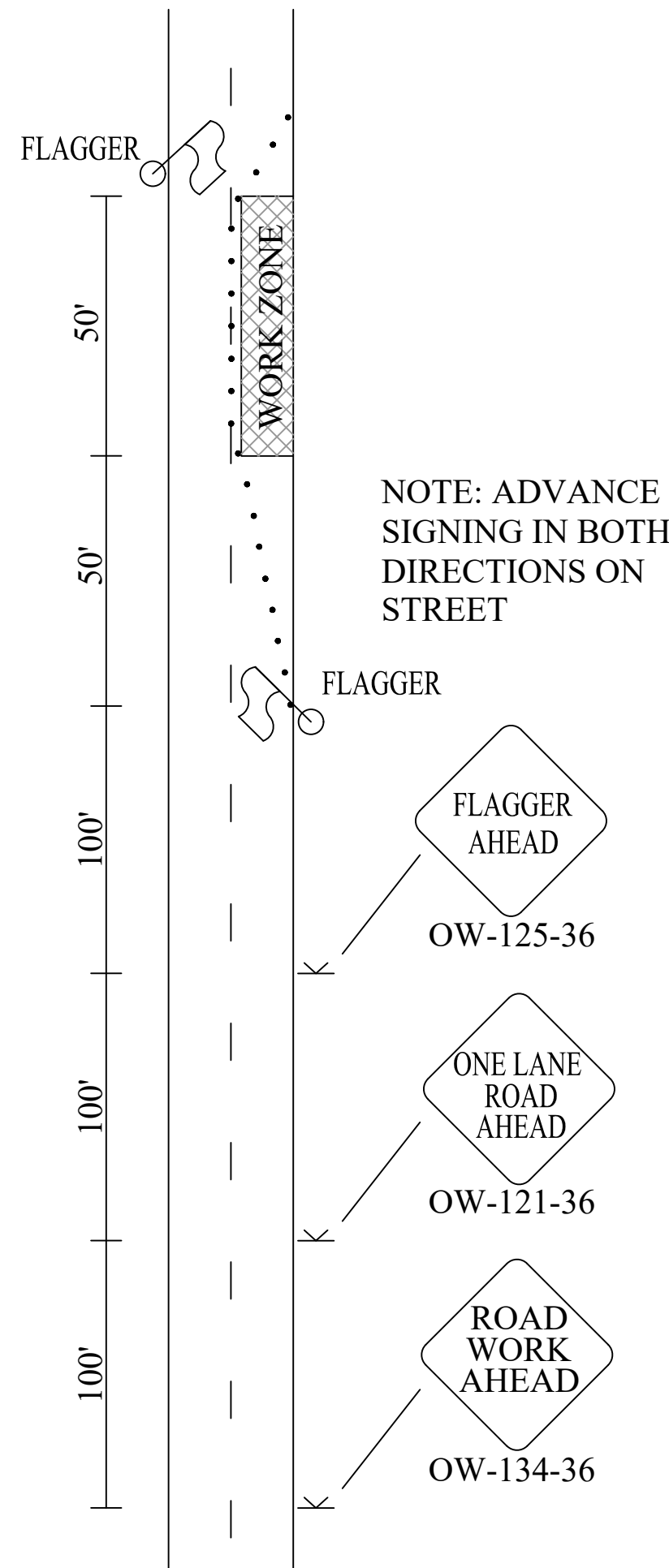
4. Discharging pollutants such as chemicals, fuels, lubricants, bituminous materials, raw sewage, or other harmful waste into or alongside of rivers, streams, impoundments, or into any natural or man-made channels is prohibited.

5. Damaging vegetation outside of the construction area is prohibited.

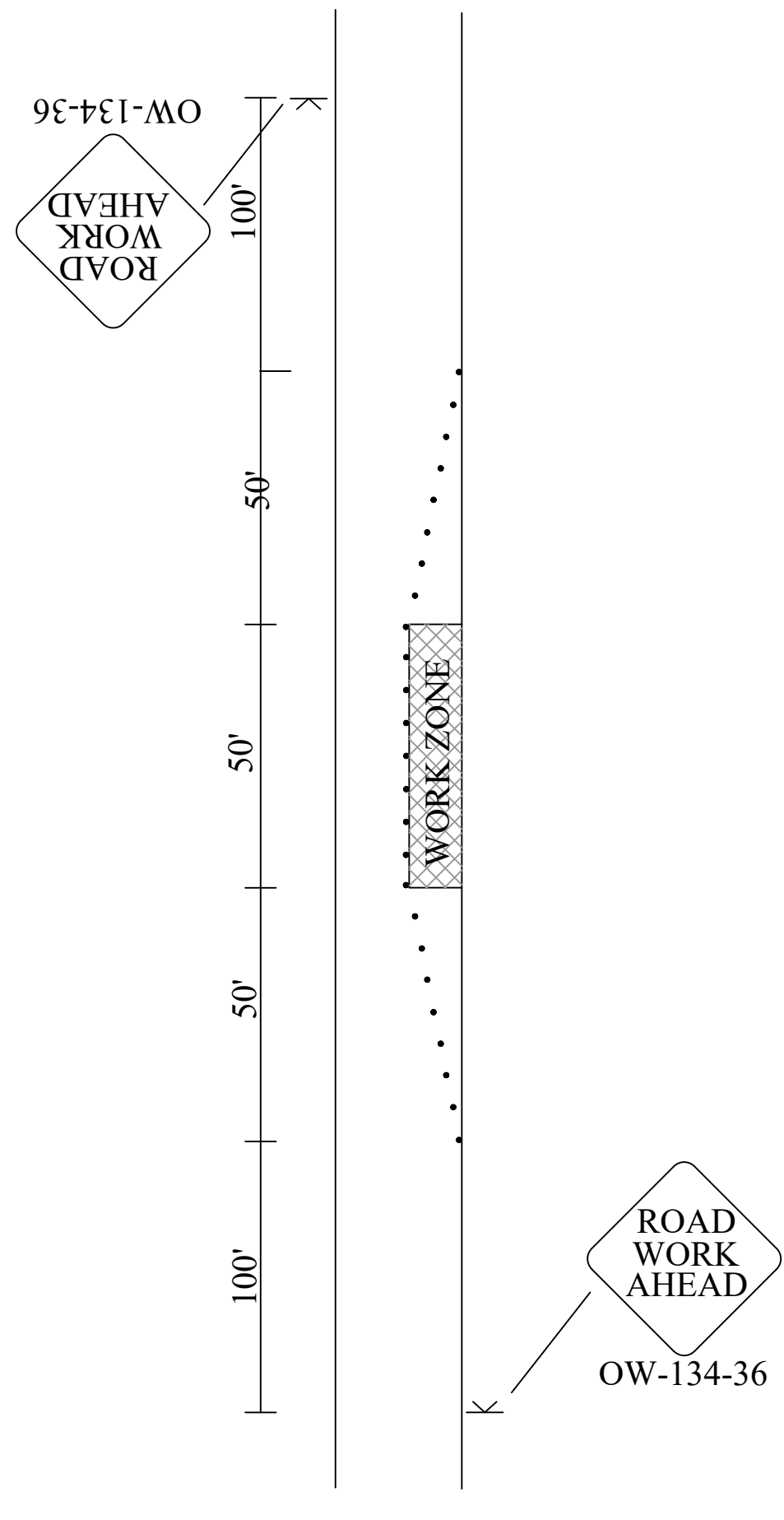
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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			SANITARY SEWER LINING CONTRACT (2021-2023) CIP 650403-100001					
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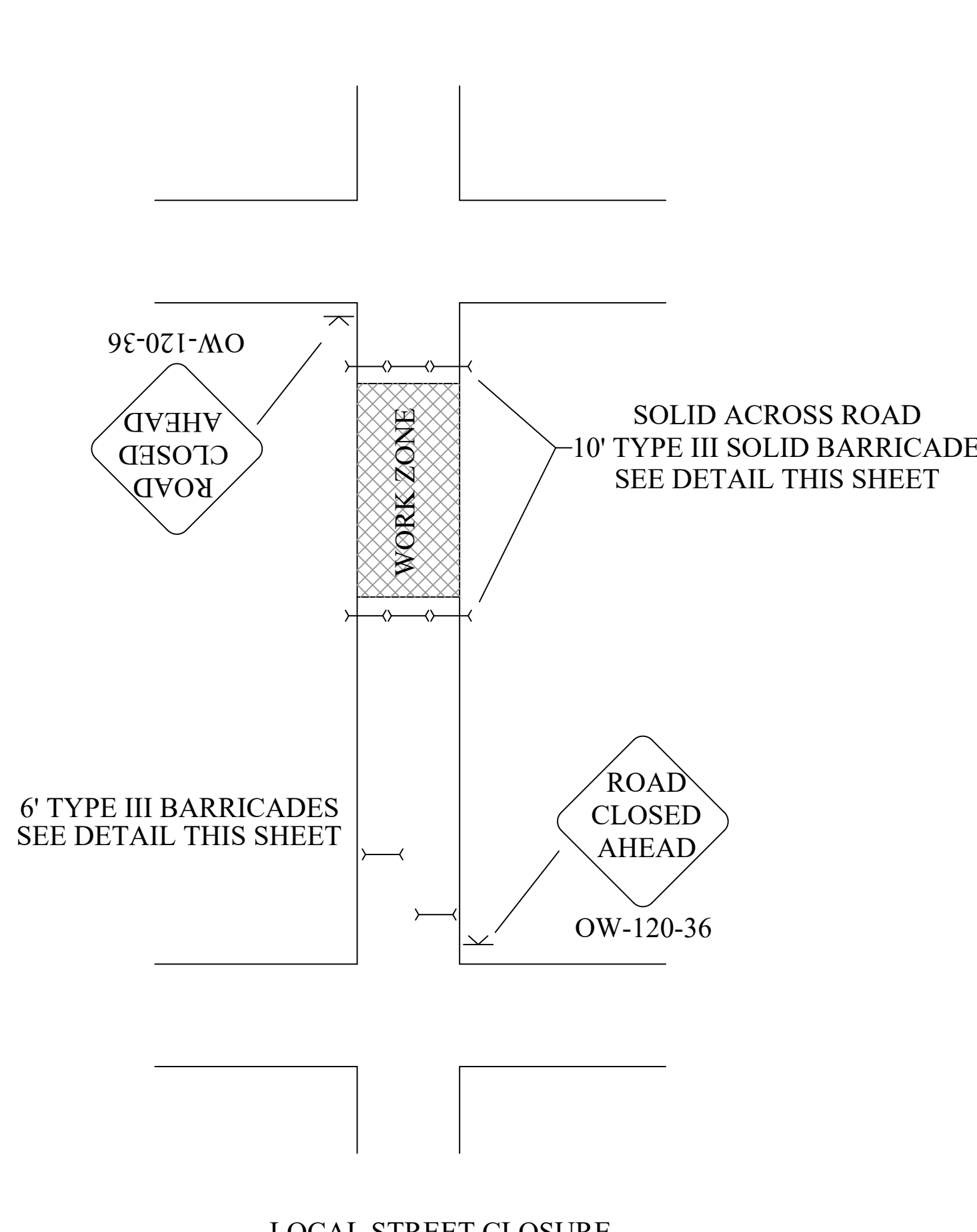
RIGHT LANE CLOSURE



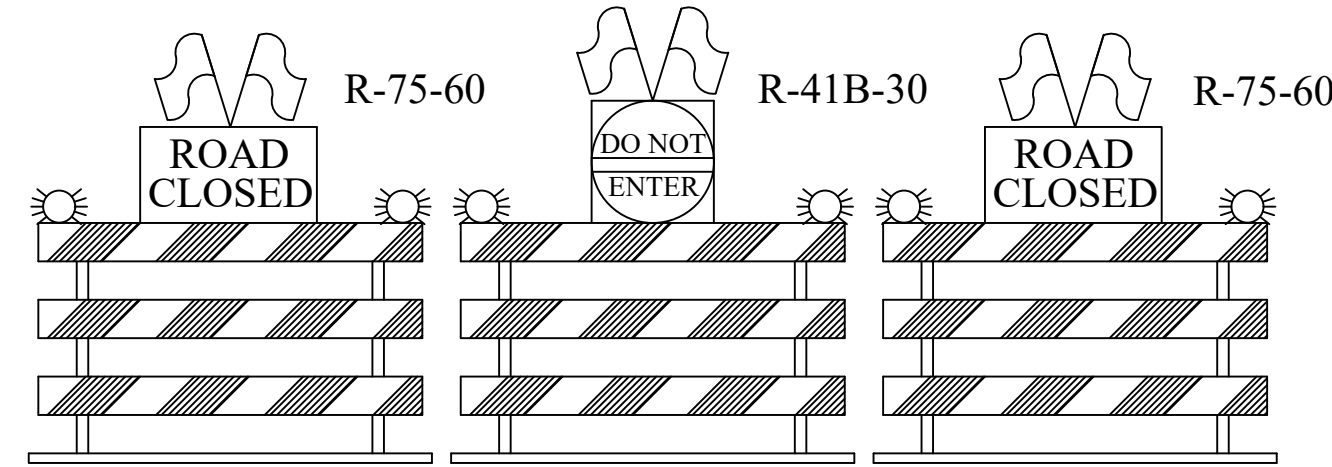
STATIONARY OPERATION IN ONE LANE



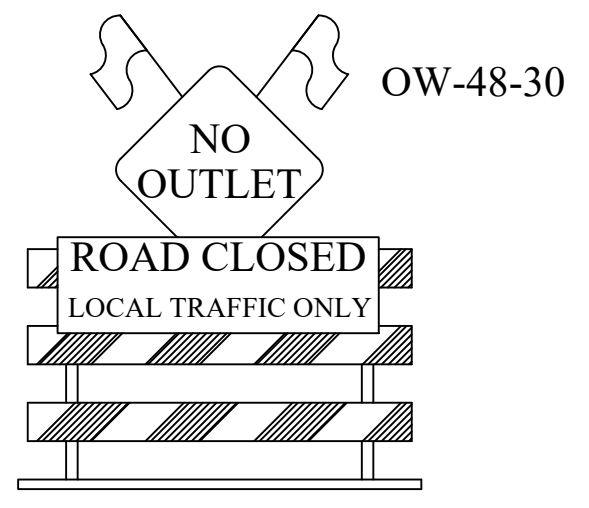
STATIONARY OPERATION ON LOCAL STREET



LOCAL STREET CLOSURE



10' TYPE III BARRICADE SOLID ACROSS ROAD



6' TYPE III BARRICADE TO BE USED IF CLOSURE IS NOT READILY VISIBLE AT NEAREST CROSS STREET.

- All temporary traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the "Ohio Manual of Traffic Control Devices for Construction and Maintenance Operations" (current edition), copies of which are available from the Ohio Dept. of Transportation, Bureau of Traffic, 1980 W. Broad St. Columbus, Ohio 43223.
- The Contractor shall submit a Maintenance of Traffic Control Plan (MTCPP) prepared by an ATSSA Certified Work Site Control Supervisor to the Transportation Division Construction Coordinator (645-6269 or 645-5845) at the pre-construction meeting or a minimum of ten (10) working days prior to beginning work. Copies of the approved MTCPP shall be given to the Project Engineer and kept on the project site along with the Contractor obtained city street occupancy permit.
- The Transportation Division (645-6269 or 645-5845) and the Columbus Paving the Way Program (645-7283) shall be notified a minimum of five (5) working days prior to each phase of major change in traffic patterns either permanent or temporary, within the right-of-way.
- Construction operations shall not begin until all traffic control is in place and approved by the City's construction inspection representative. All temporary traffic control devices shall be approved for condition and location by the Construction Inspector before the Contractor will be allowed to begin work. If the Contractor does not comply with the standards, including the installation of temporary pavement markings, his permit shall be revoked and all work shall be terminated.
- Access for pedestrian and vehicular traffic to all adjoining properties shall also be maintained at all times.
- The safety of pedestrian and bicycle traffic shall be considered at all times. It shall be the Contractor's responsibility to provide lights, signs, barricades and other devices to warn and physically separate the pedestrian and/or bicyclist from hazards incidental to the construction and/or installation of the required traffic control and roadway items such as anchor bolts, open excavations, etc. unless otherwise directed by the Engineer, such pedestrian/bicycle protection shall utilize, but not be limited to drums, temporary fence, Type I, Type II, or Type III barricades.
- The Contractor shall maintain all permanent traffic controls not in conflict with the temporary traffic controls throughout this project. Permanent traffic controls may be temporarily relocated as approved by the Engineer. The Contractor shall assume all liability for missing, damaged and improperly placed signs.

- Temporary "Emergency No Parking" signs shall be installed and removed by the Contractor in areas with no parking meters. The signs shall have the installation date, working dated, and hours of restriction shown on each sign; the signs may be obtained from the Transportation Division's permit office. The Columbus Police Division requires the "Emergency No Parking" signs be posted a minimum of seventy-two (72) hours prior to any vehicles being towed. The Contractor shall supply the Transportation Division with a written record of locations posted, within twenty-four (24) hours of posting.
- All trenches or open excavations within the road right-of-way shall be backfilled or securely plated during non-working hours.
- Steady burning Type "C" lights shall be required on all barricades, drums and similar traffic control devices in use at night. Cones are not approved for use at night.
- Any work done by the Transportation Division, including installation, relocation, removal and/or replacement of temporary traffic control devices as a result of work done by the Contractor or as a result of negligence by the Contractor shall be at the expense of the Contractor.
- All excavation work shall require one LEO.
- Temporary traffic control items shall be removed upon completion of work within said limits.
- All conflicting pavement markings shall be covered as necessary.
- The general maintenance of traffic plan provided is for bidding purposes only and represents the level of traffic control expected during the performance of the work. The Contractor shall develop a plan that minimizes traffic disruption.
- Upon initiation of the project and prior to blocking any streets the Contractor shall notify local residents and businesses as to the access restrictions and schedule of the project, and shall provide for needed access to the extent safe and feasible.
- All lanes shall be open to traffic during non-working hours.

- Work hours along residential streets and alleys are limited to 7:00am - 10:00pm.
- No two consecutive streets shall be closed at the same time.
- The MTCPP shall include by-pass sewers and show how traffic shall be maintained over/around the lines.
- Payment for the above work, unless specifically paid for elsewhere, shall be included in the lump sum bid price for Item 614, Maintaining Traffic.

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER		NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE			
GRANTOR					

MAINTENANCE OF TRAFFIC

PROJECT TITLE:		SANITARY SEWER LINING CONTRACT (2021-2023) CIP 650403-100001	
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT COMPLETED	
		RPD CKD CLD CON. DR.	
		INDEX DETAIL RECORD FILE	

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
SCALE: N.T.S.	SHEET: 5/5
CONTRACT DRAWING NO. CC 19237	RECORD PLAN NO.