

STRATTON CAPERS 2 GRAVITY SEWER IMPROVEMENTS

DORCHESTER COUNTY, SOUTH CAROLINA

CONTACTS:

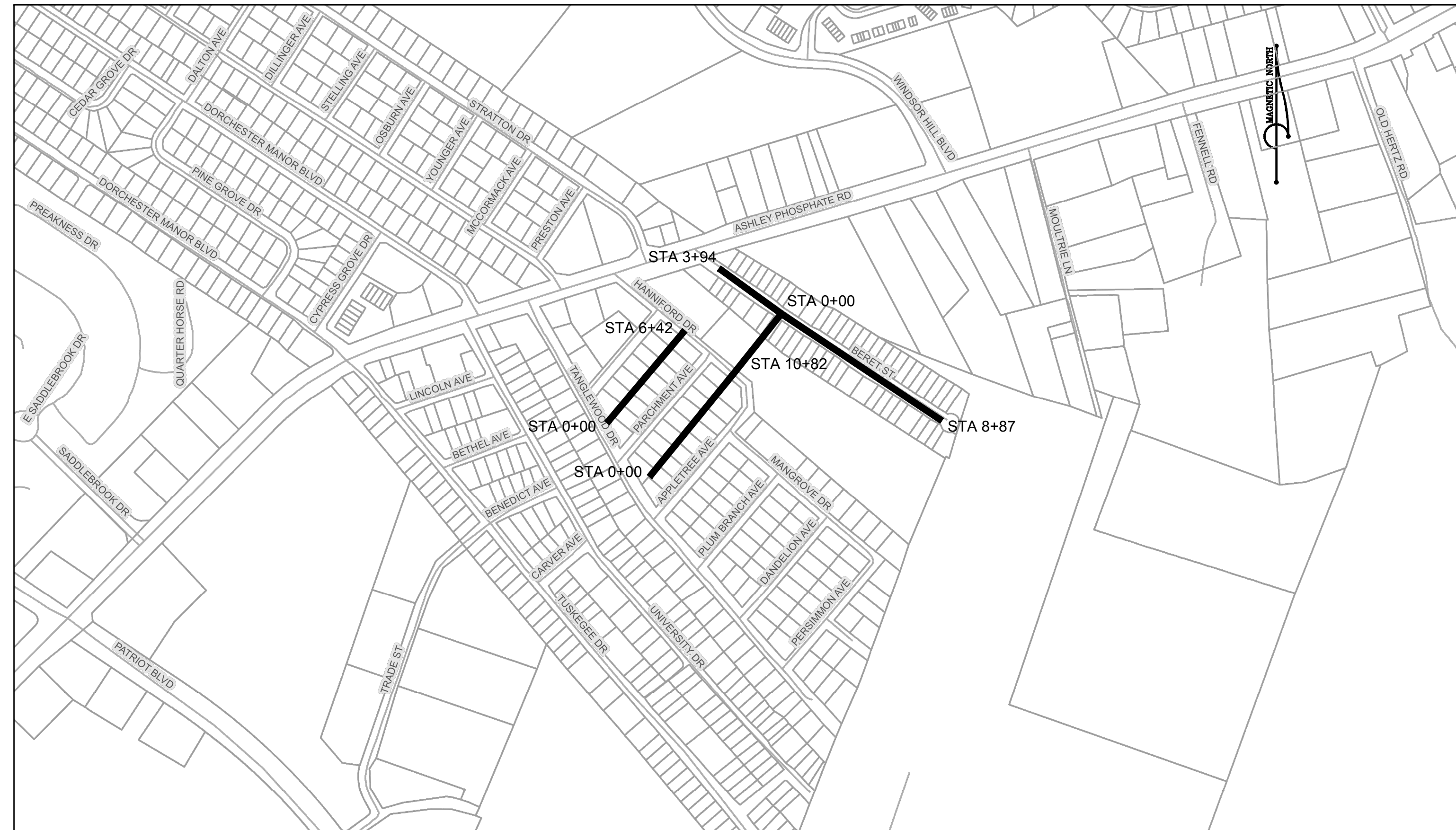
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843-259-1373



N.T.S.

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**DORCHESTER COUNTY
WATER & SEWER DEPARTMENT**
235 DEMING WAY
SUMMERVILLE, SC 29483
PHONE: (843) 832-0075
FAX: (843) 832-0073



COVER SHEET

**STRATTON CAPERS 2
GRAVITY SEWER
IMPROVEMENTS**

STRATTON CAPERS 2 SUBDIVISION
DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-27-19

DRAWN: STL

SCALE:

REVISIONS

COVER SHEET



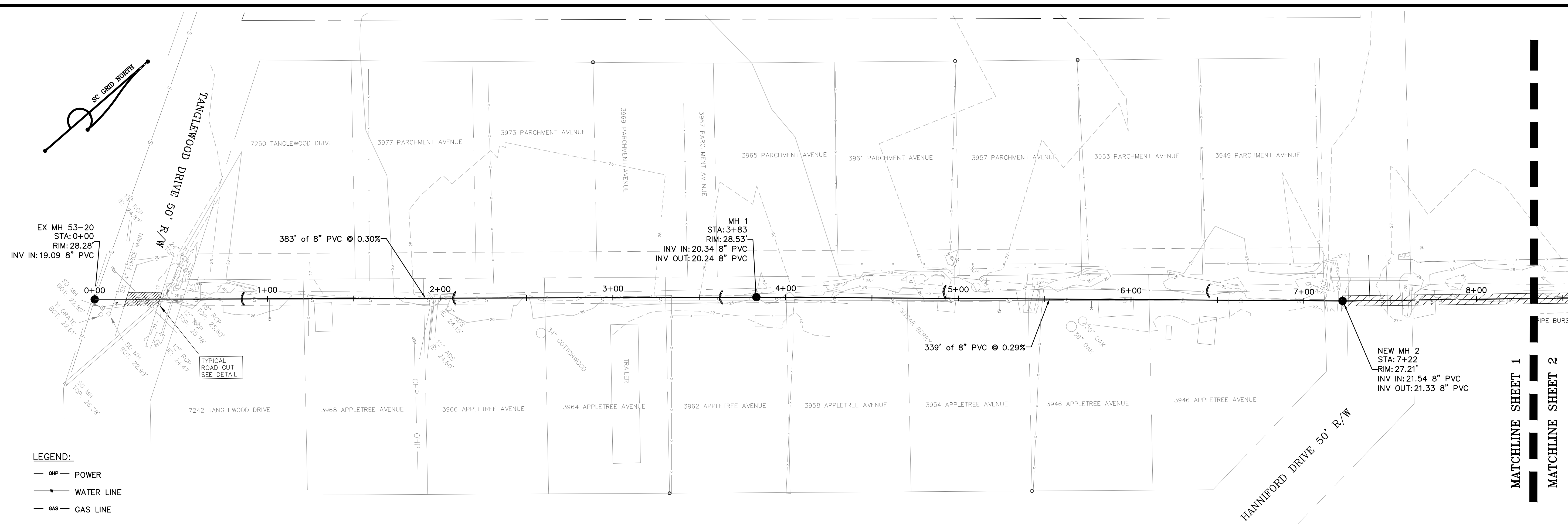
Know what's below.
Call before you dig.



SEWER PLAN AND PROFILE
STRATTON CAPERS 2
GRAVITY SEWER
IMPROVEMENTS
 STRATTON CAPERS 2 SUBDIVISION
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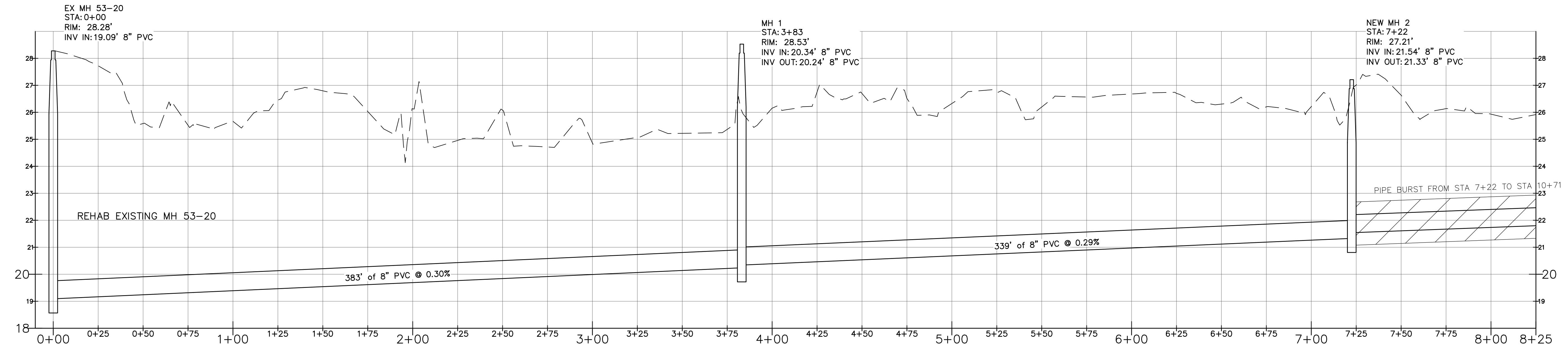
DATE: 3-27-19
 DRAWN: STL
 SCALE: HORIZ 1"=30'
 VERT. 1"=2'

REVISIONS

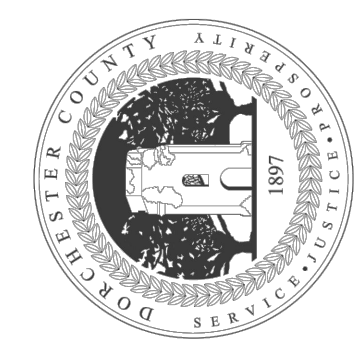


- LEGEND:**
- OHP — POWER
 - WATER LINE
 - GAS — GAS LINE
 - TEL — TELEPHONE
 - - - - - DISTURBED LIMITS
 - EXISTING SEWER LINE
 - SEWER CLEANOUT
 - ⊙ POWER POLE
 - △ MAILBOX
 - ⌒ SILT TUBE

- NOTES:**
1. REPLACE ANY DISTURBED PAVEMENT AND STORM DRAINS IN ACCORDANCE WITH SCDOT REQUIREMENTS.
 2. ALL PERSONAL PROPERTY INCLUDING MAILBOXES OR FENCES DAMAGED BY CONSTRUCTION TO BE REPAIRED OR REPLACED.
 3. RECONNECT ALL EXISTING SERVICES TO THE NEW SEWER MAIN WHETHER OR NOT THEY ARE SHOWN ON THE PLAN.
 4. ALL MANHOLES NOT LOCATED IN THE ROAD RIGHT OF WAY TO BE SET 2' ABOVE FINISHED GRADE.
 5. ALL MANHOLES SHALL BE WATERTIGHT AND INSTALLED WITH A LOCKABLE RING AND COVER PER DCWS APPROVAL.
 6. CONTRACTOR RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS AND/OR SPOILS.

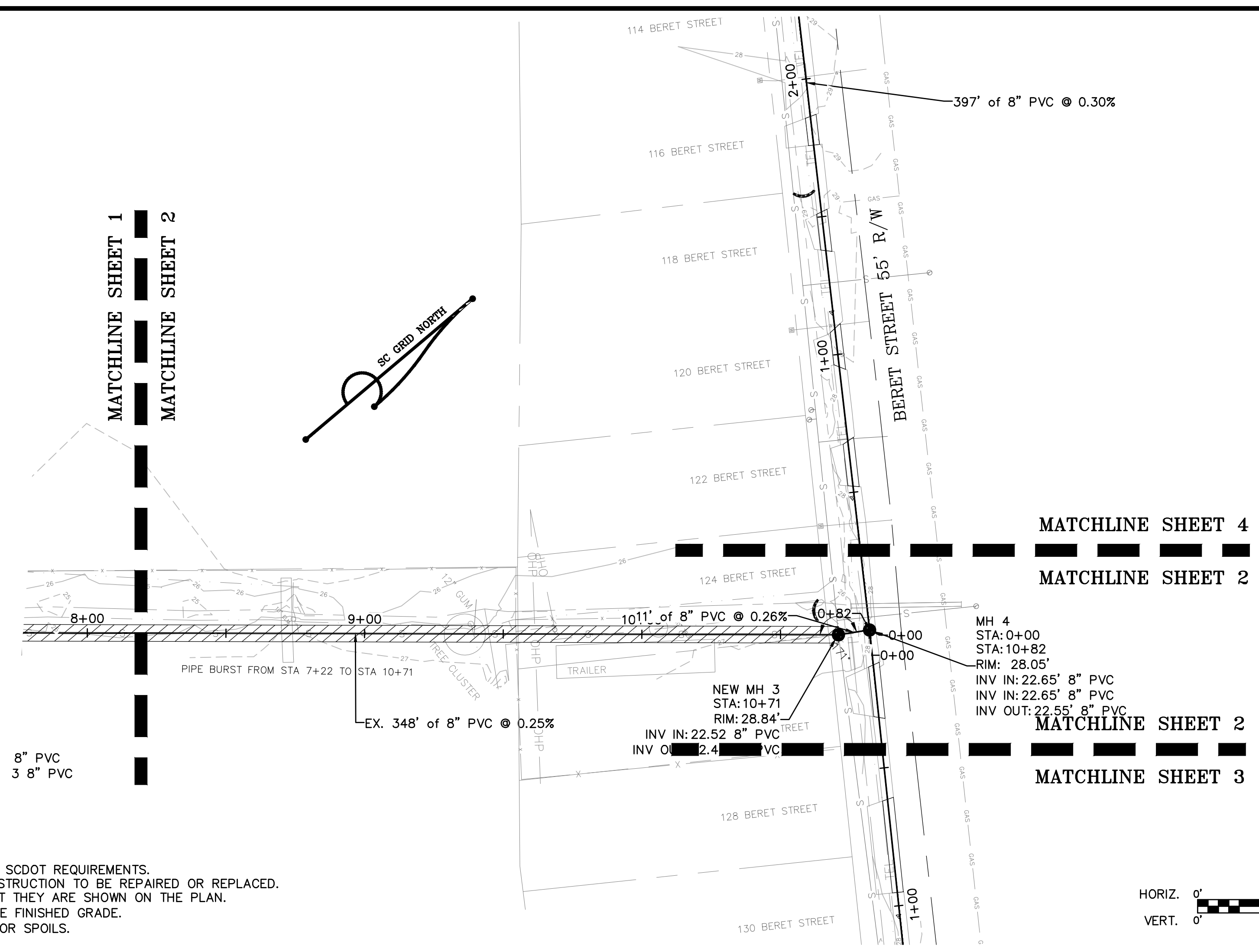


EX MH 53-20 TO EX MH 53-21
 STA -0+10 TO 8+25

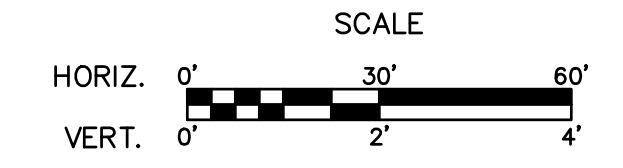


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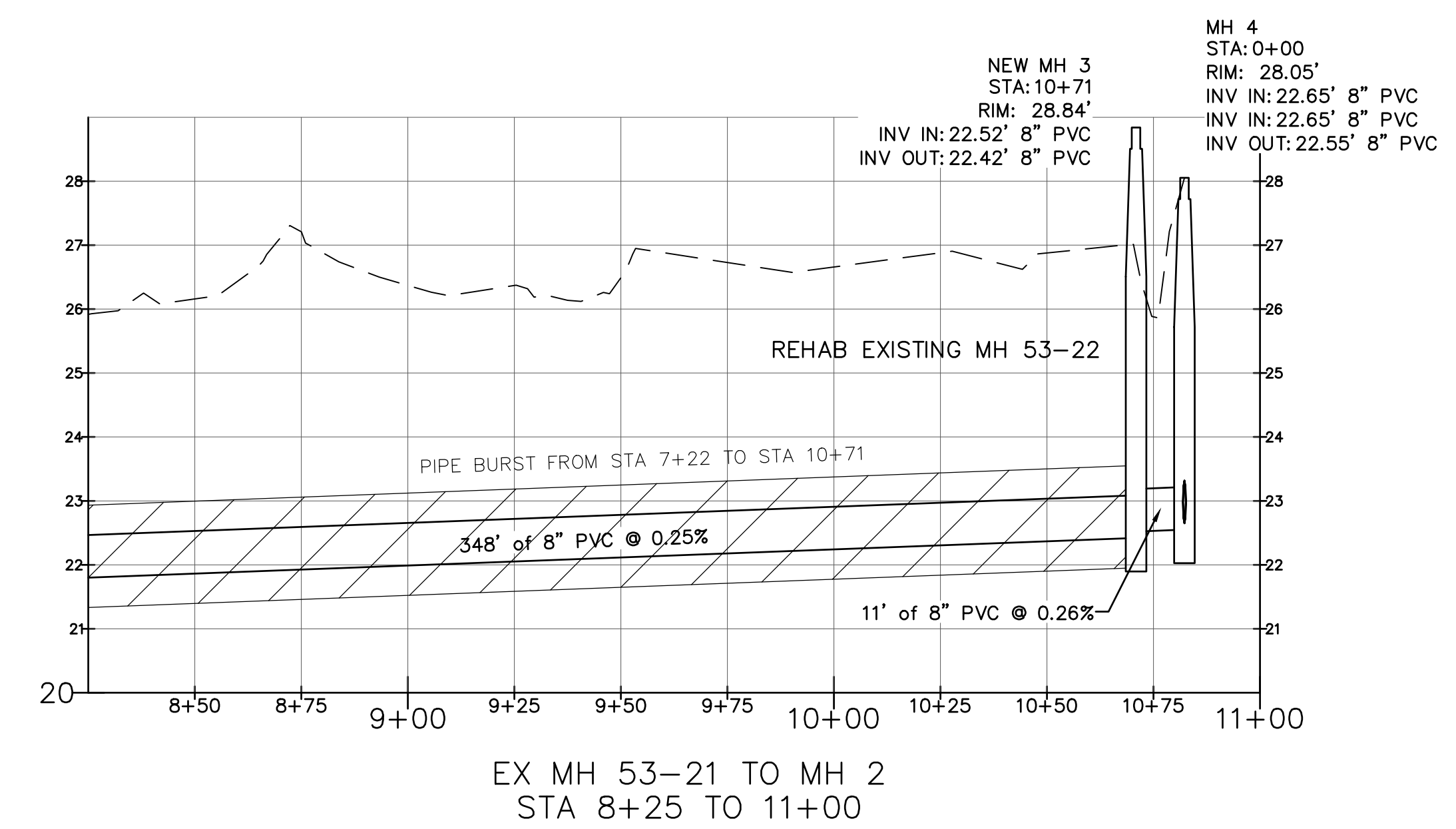
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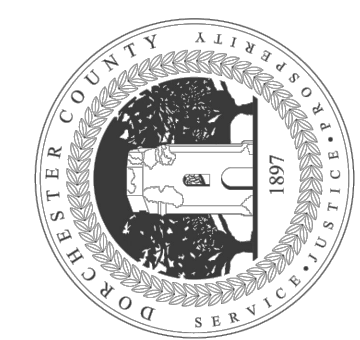


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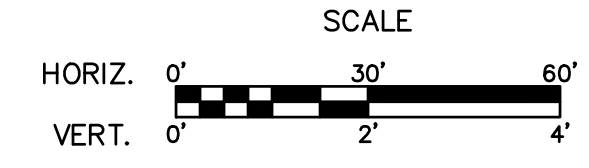
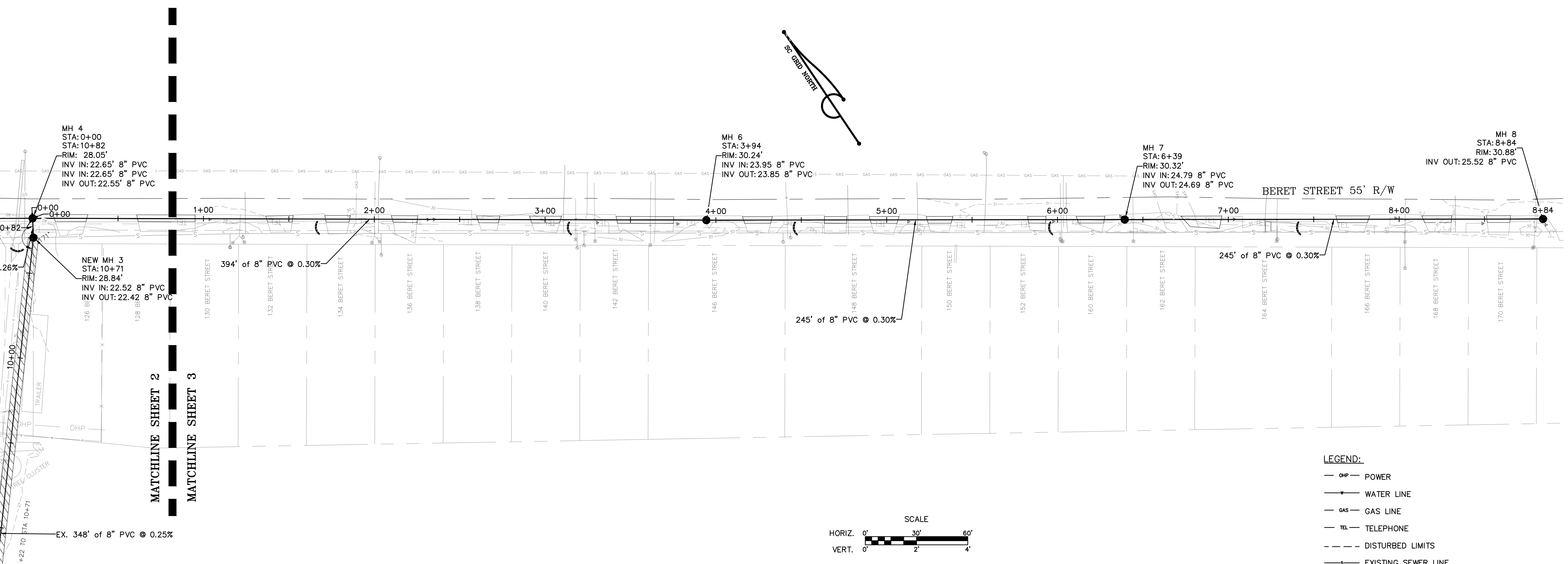


SEWER PLAN AND PROFILE

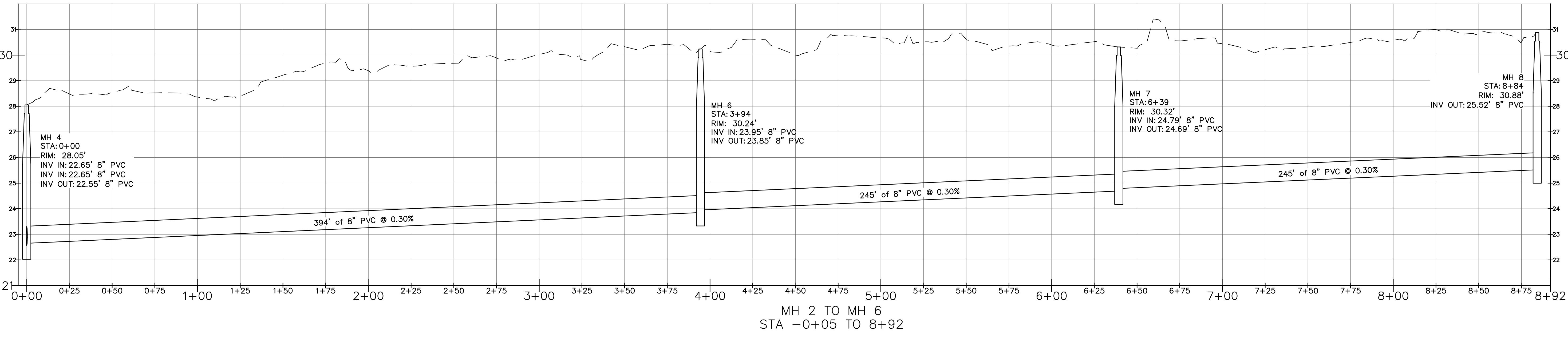
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SHEET 3



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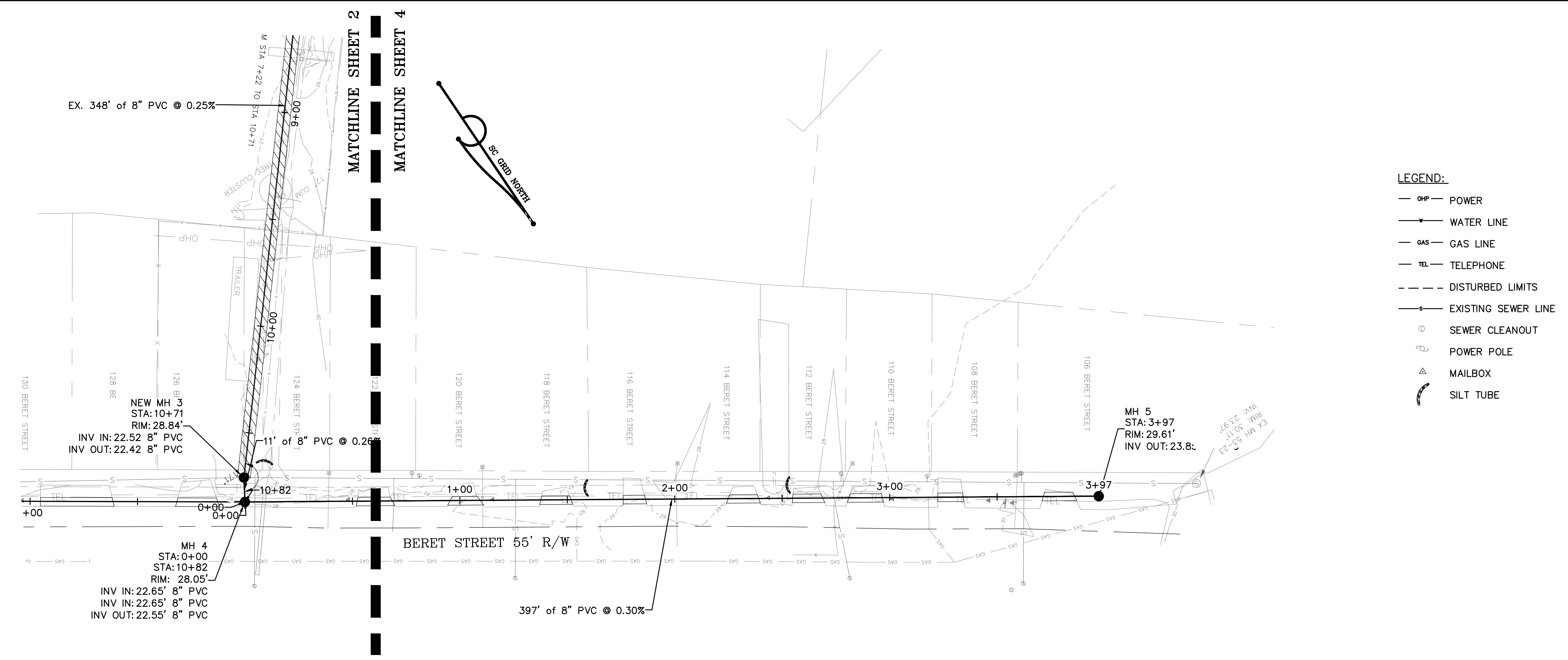


SEWER PLAN AND PROFILE

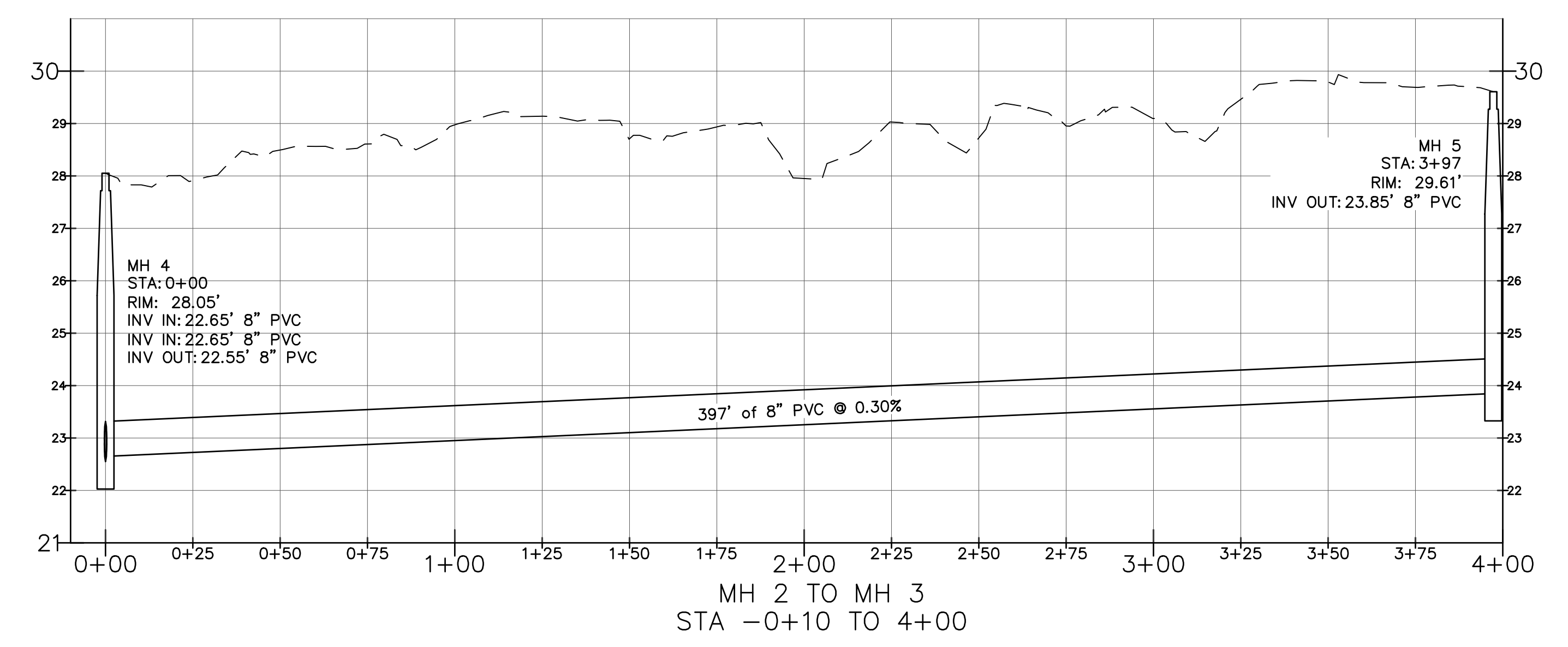
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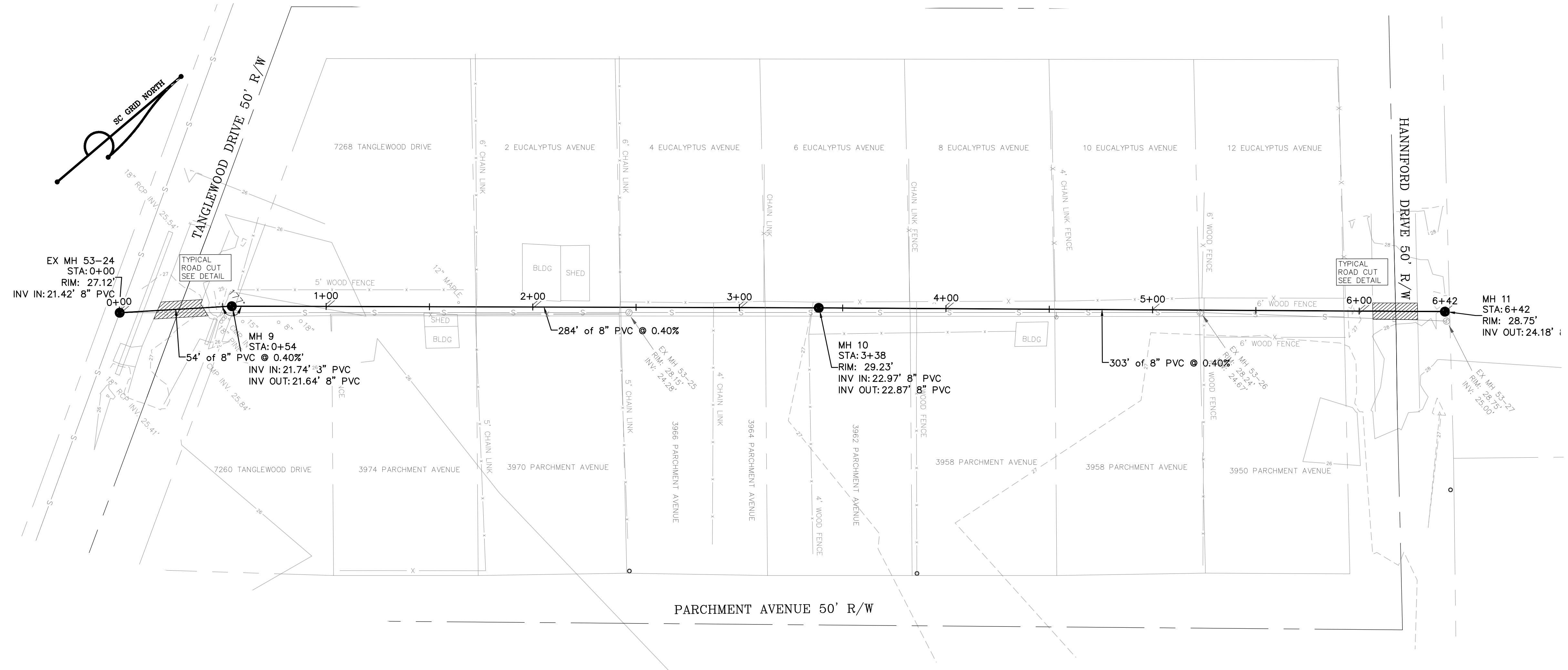


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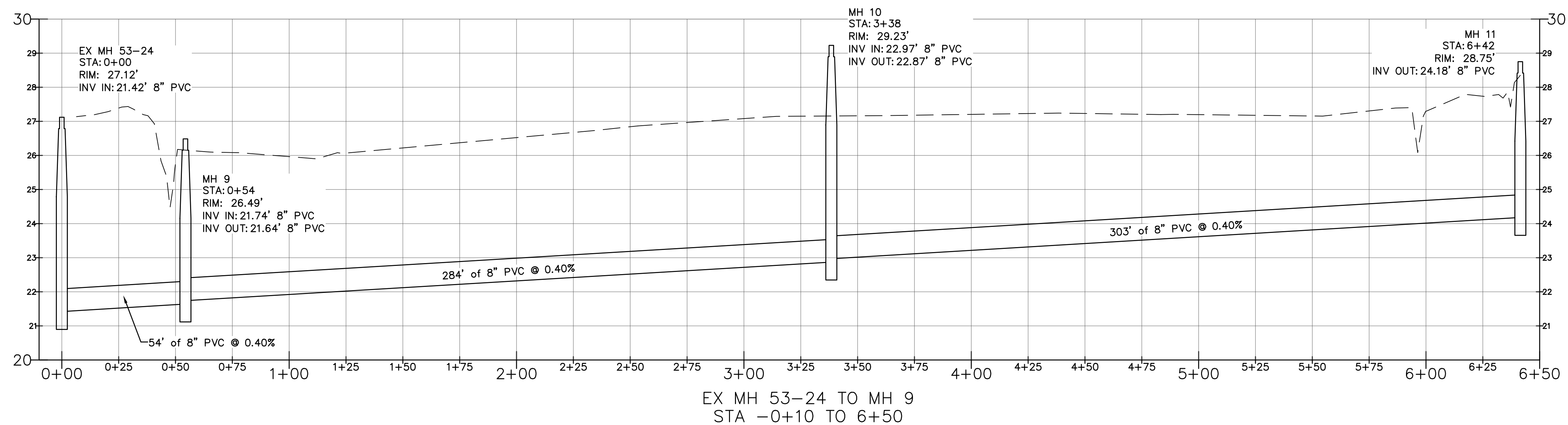


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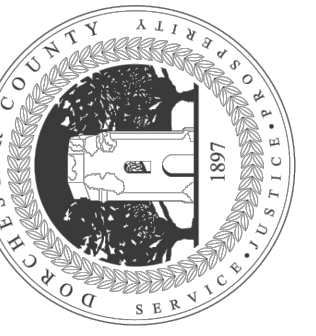
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SEWER PLAN AND PROFILE

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REVISIONS	

SHEET 5



NOTE:

- REHAB THE FOLLOWING 8 MANHOLES CIRCLED ON THE MAP WITHIN STRATTON CAPERS 2:

53-4	53-20
53-7	53-24
53-9	
53-11	
53-13	
53-15	



MANHOLE REHAB

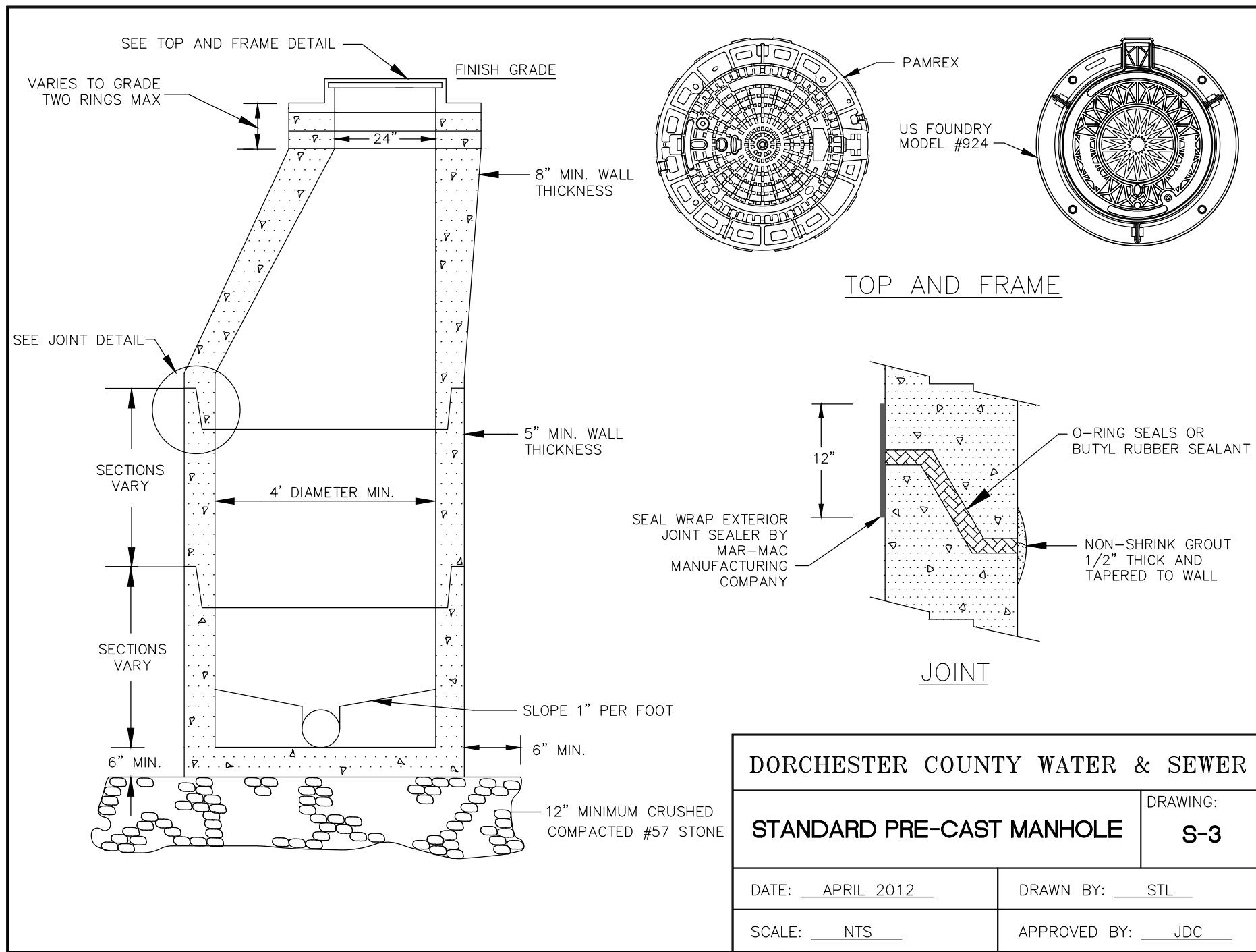
STRATTON CAPERS 2

**GRAVITY SEWER
IMPROVEMENTS**

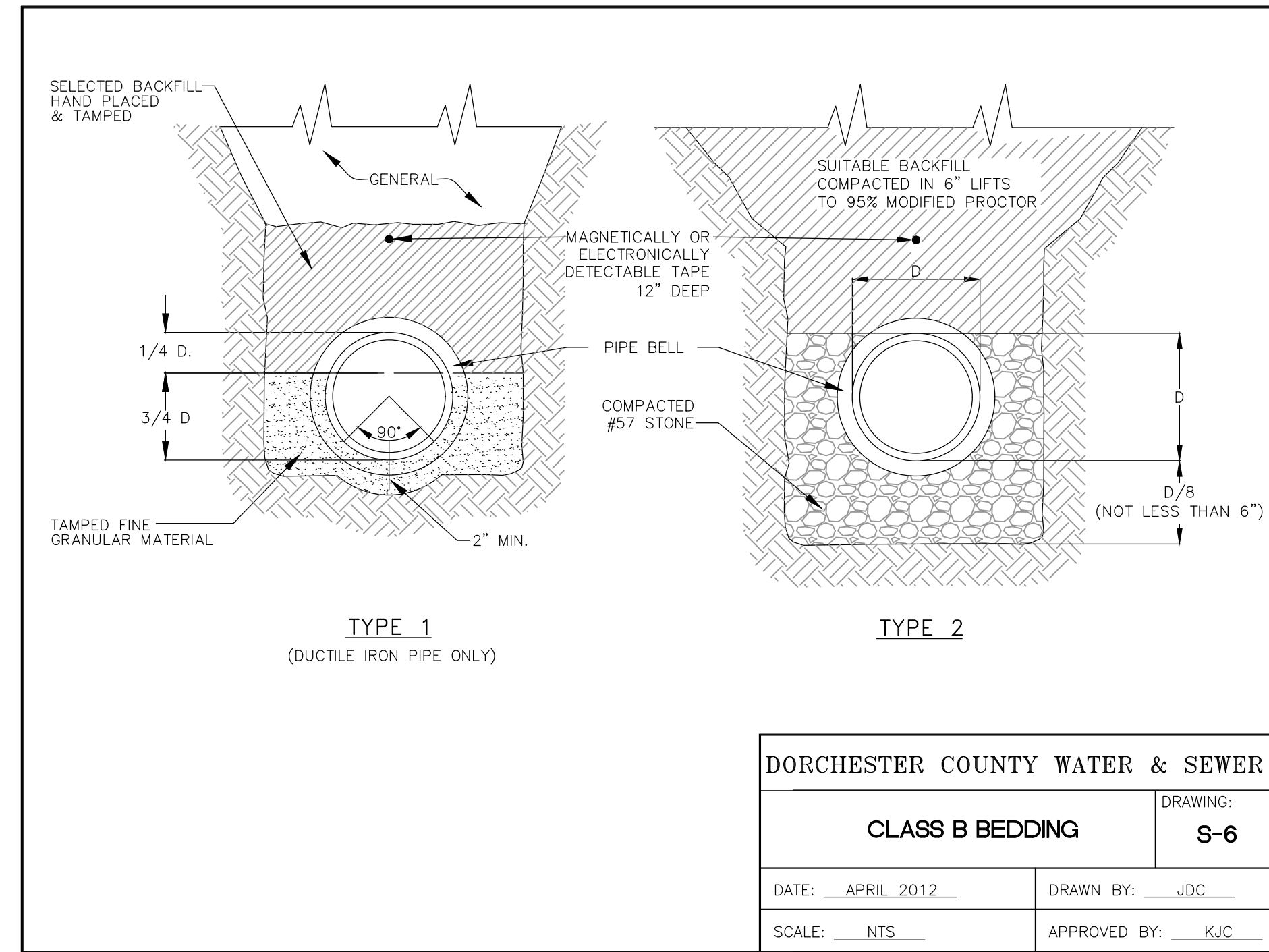
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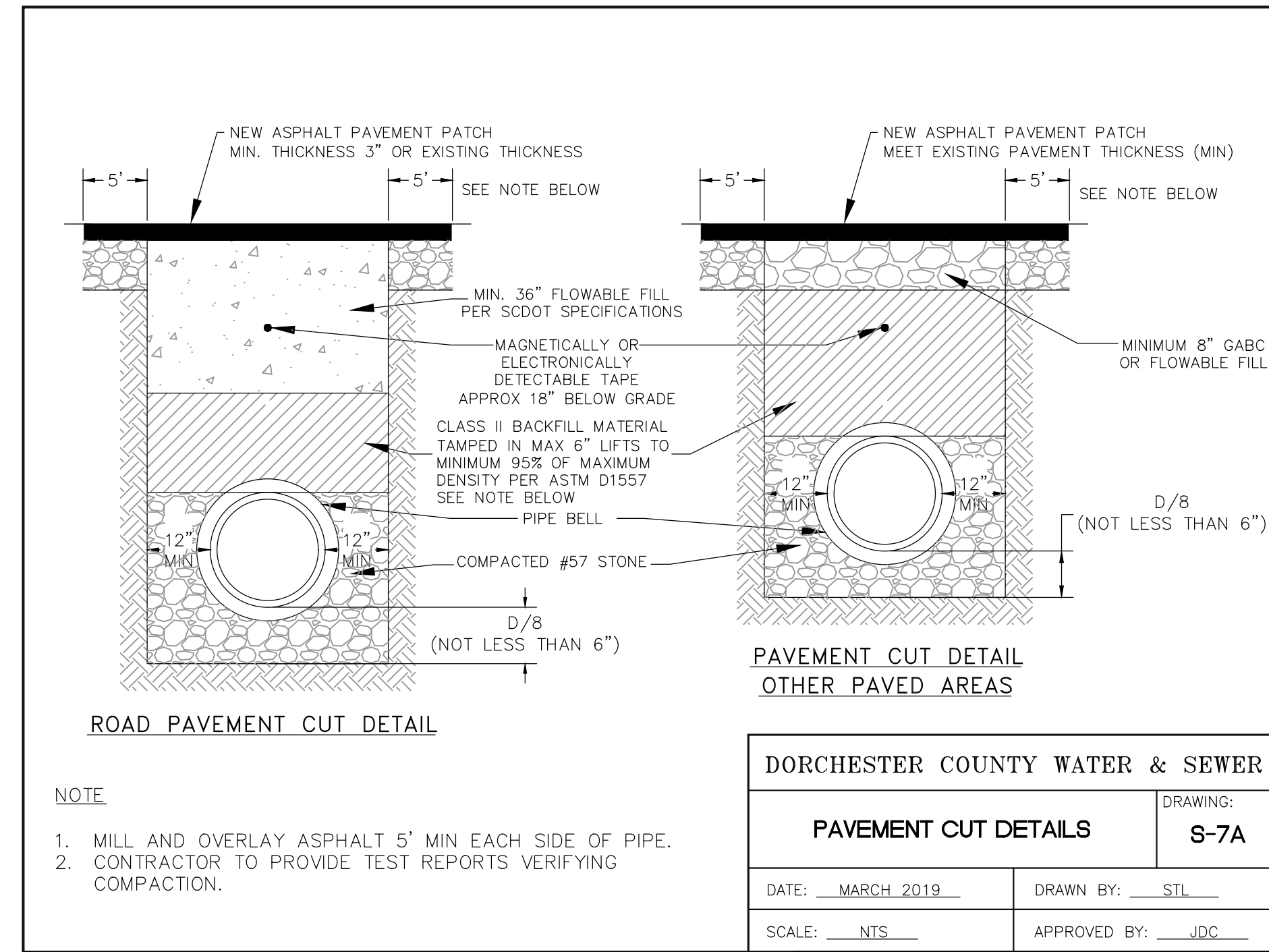
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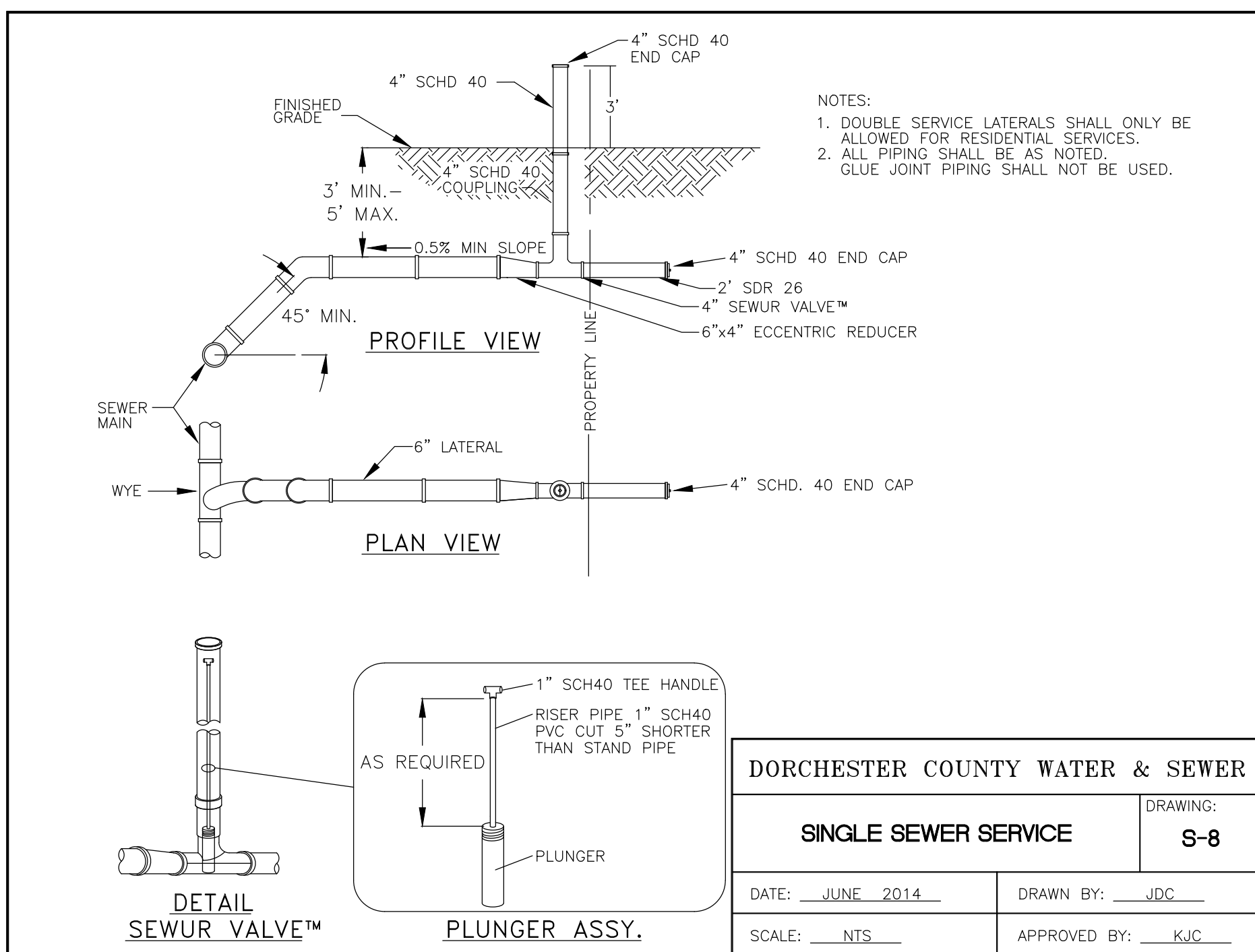
DORCHESTER COUNTY WATER & SEWER	
STANDARD PRE-CAST MANHOLE	DRAWING: S-3
DATE: APRIL 2012	DRAWN BY: STL
SCALE: NTS	APPROVED BY: JDC



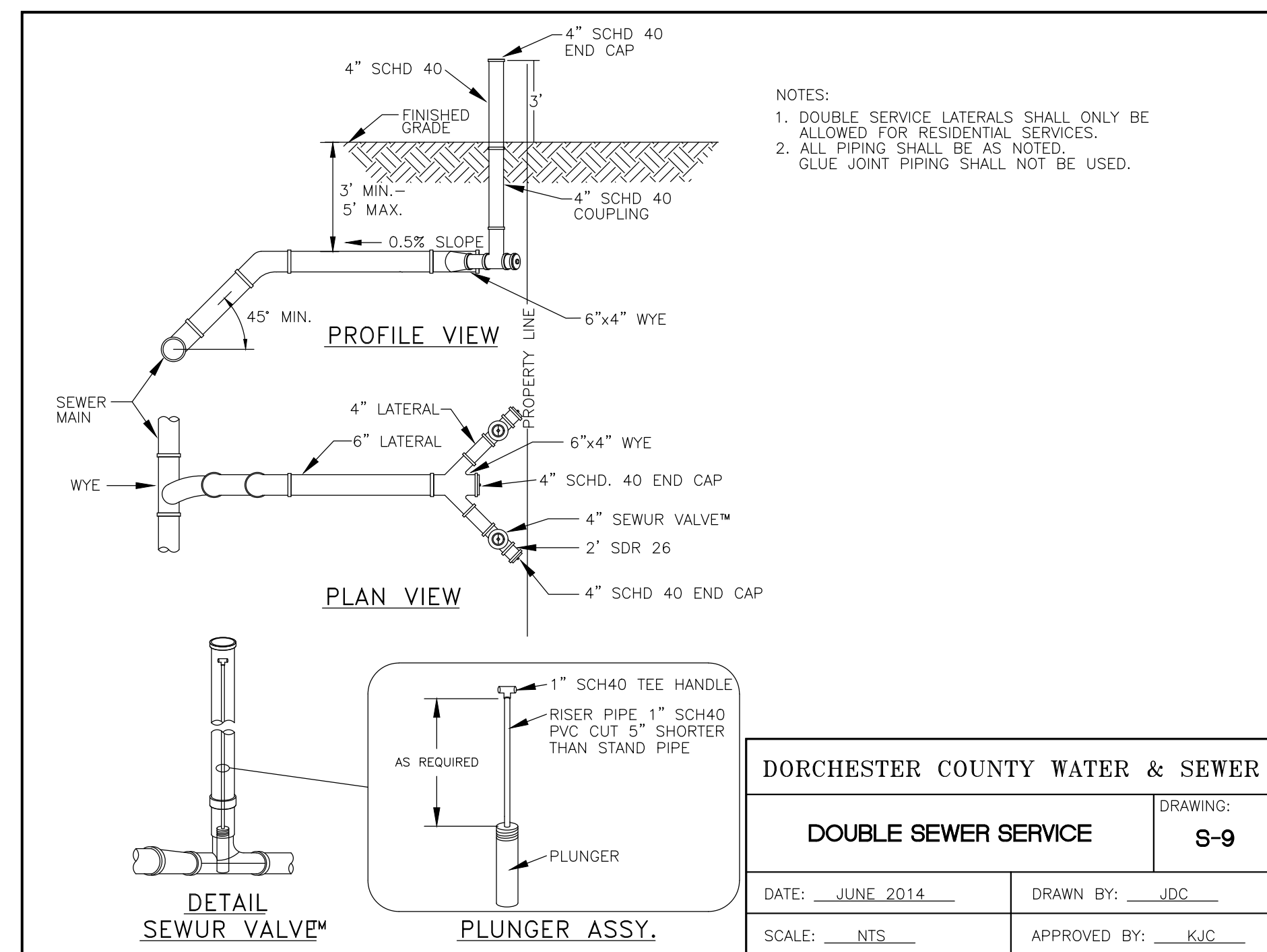
DORCHESTER COUNTY WATER & SEWER	
CLASS B BEDDING	DRAWING: S-6
DATE: APRIL 2012	DRAWN BY: JDC
SCALE: NTS	APPROVED BY: KJC



DORCHESTER COUNTY WATER & SEWER	
PAVEMENT CUT DETAILS	DRAWING: S-7A
DATE: MARCH 2019	DRAWN BY: STL
SCALE: NTS	APPROVED BY: JDC



DORCHESTER COUNTY WATER & SEWER	
SINGLE SEWER SERVICE	DRAWING: S-8
DATE: JUNE 2014	DRAWN BY: JDC
SCALE: NTS	APPROVED BY: KJC



DORCHESTER COUNTY WATER & SEWER	
DOUBLE SEWER SERVICE	DRAWING: S-9
DATE: JUNE 2014	DRAWN BY: JDC
SCALE: NTS	APPROVED BY: KJC

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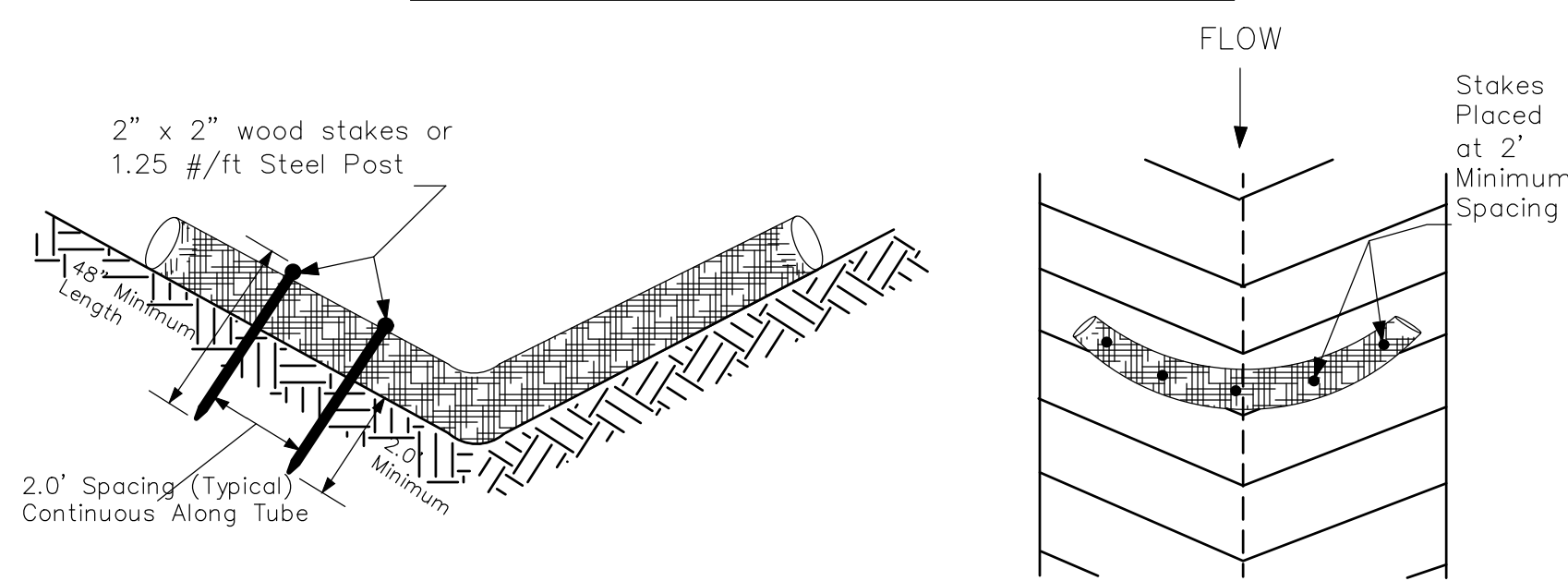
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DETAIL SHEET 1

SEDIMENT TUBE INSTALLATION



SEDIMENT TUBE SPACING

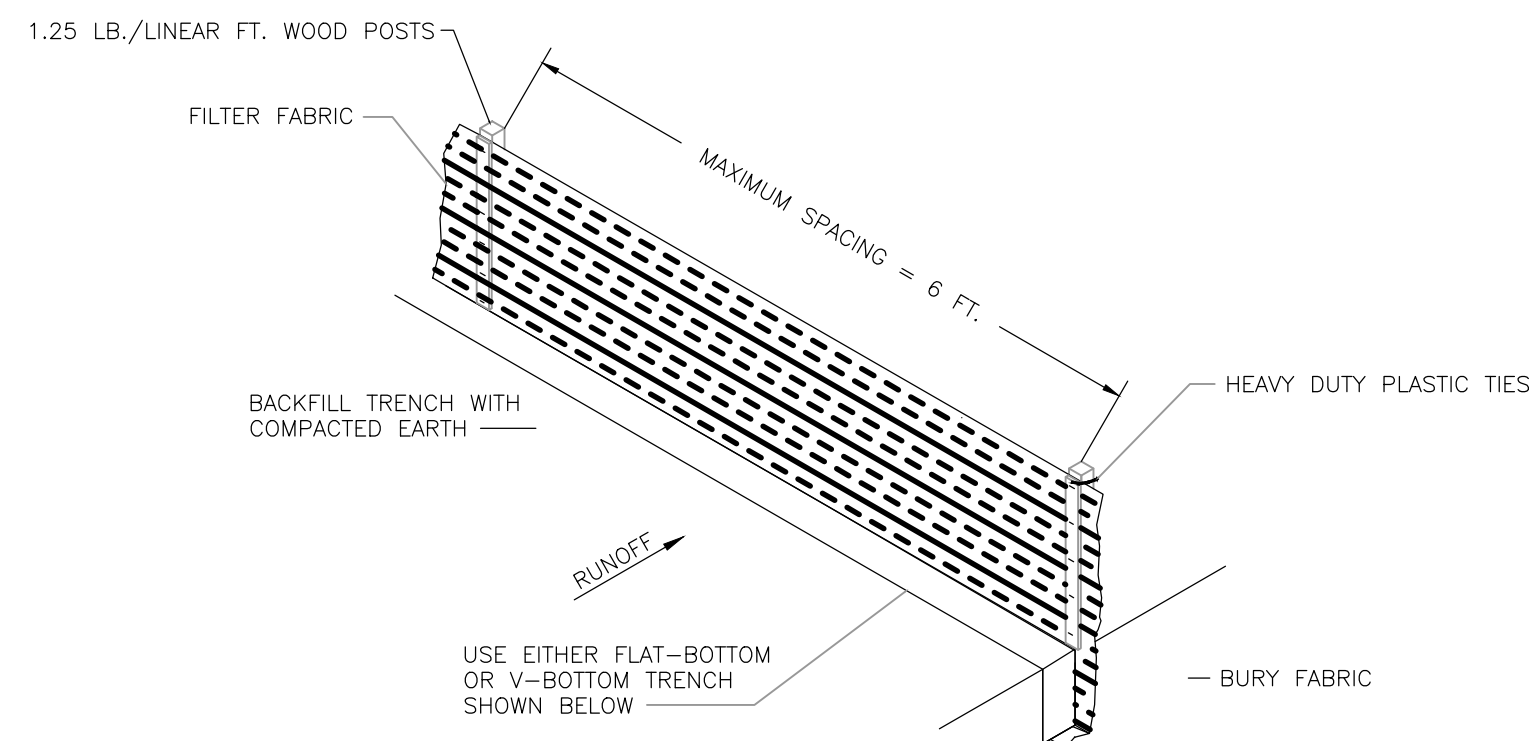
SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

SEDIMENT TUBES – GENERAL NOTES

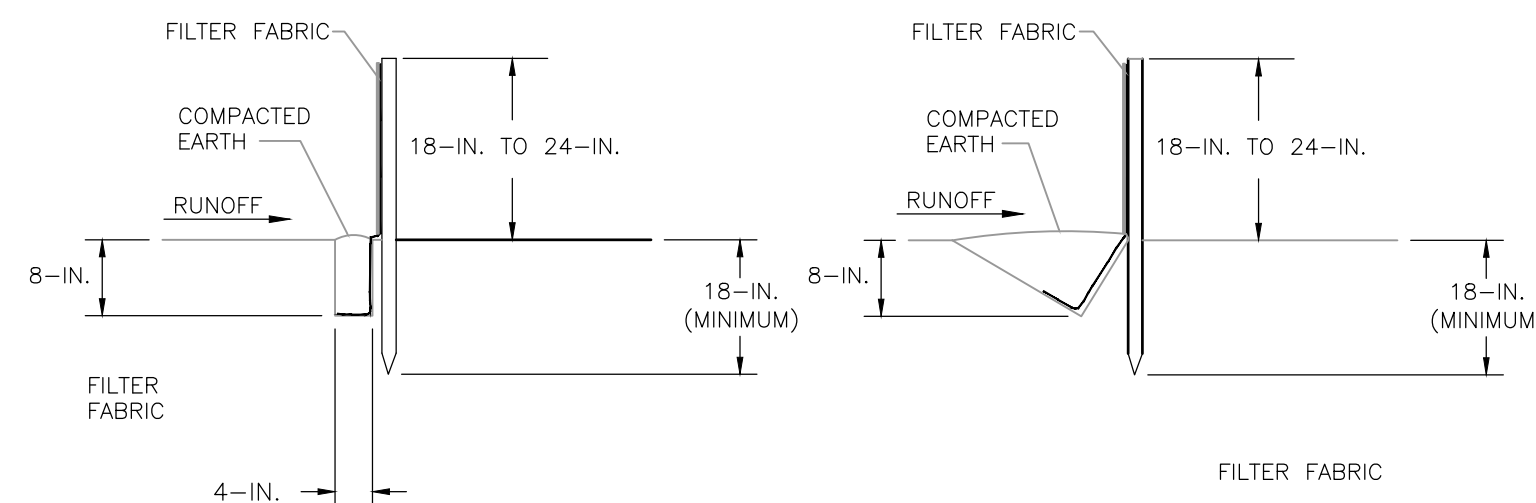
- Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
- Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needles, and leaf mulch-filled sediment tubes are not permitted.
- The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
- Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
- Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
- Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
- Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
- The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
- Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
- Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
- Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
- Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES – INSPECTION & MAINTENANCE

- The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Large debris, trash, and leaves should be removed from in front of tubes when found.
- If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
- Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

DHEC-OCRM STANDARD EROSION CONTROL NOTES

(LATEST REVISED STANDARD SC DHEC NOTES – DECEMBER 2012)

- If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction.
- Temporary berms may be needed until the slope is brought to grade. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
 - Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
 - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.
- All sediment and erosion control devices shall be inspected once calendar every week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
- Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
- All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C. Reg. 72-300 et seq. and SCR100000.
- Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
- All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

SEDIMENT AND EROSION CONTROL PROCEDURES

- DURING CLEARING AND EARTHWORK ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES SPECIFIED AND AS INDICATED ON THE DRAWINGS. DURING EACH PHASE OF SITE CONSTRUCTION THE CONTRACTOR SHALL ADJUST, RELOCATE AND/OR REINSTALL AS APPLICABLE ALL EROSION CONTROL DEVICES AND MEASURES NECESSARY TO PREVENT SOIL EROSION AND SEDIMENT DISCHARGE FROM THE SITE.
- IN ADDITION TO SPECIFIED TEMPORARY GRASSING AND STANDARD PROTECTION AS DETAILED, ALL DRAINAGE STRUCTURES SHALL HAVE GEOTEXTILE FABRIC PLACED OVER ALL FRAMES AND GRATES TO PREVENT SEDIMENT ENTRY INTO NEW STRUCTURES AND CONDUITS. ALL SEDIMENT SHALL BE CLEANED OUT OF STRUCTURES AND CONDUITS REGULARLY.
- SILT FENCE SHALL BE MAINTAINED AROUND THE DOWNSTREAM PERIMETER OF ALL ACTIVE EARTHWORK AREAS TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES.
- TEMPORARY GRASSING AND SILT FENCE FILTER BARRIERS SHALL BE INSTALLED AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND LANDSCAPING IS INSTALLED.
- THE CONTRACTOR SHALL IMMEDIATELY CLEANUP AND REPAIR ALL EROSION DAMAGE AFTER DISCOVERY AND REINSTALL ADEQUATE CONTROL MEASURES AS NECESSARY TO PREVENT REOCCURRENCE OF DAMAGE.



UTILITY NOTICE

PRIOR TO EXCAVATION AND INSTALLATION OF SEWER UTILITIES, THE CONTRACTOR SHALL CONTACT THE PALMETTO UTILITY PROTECTION SERVICE (P.U.P.S.) AT 811. THE CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE DIRECTLY (AS NECESSARY) WITH EACH APPLICABLE UTILITY AGENCIES FOR APPROPRIATE FIELD LOCATION MARKING. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED & MARKED TO PERFORM THE WORK IN A SAFE MANNER WITHOUT DAMAGE TO EXISTING UTILITIES.

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EROSION CONTROL DETAILS

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