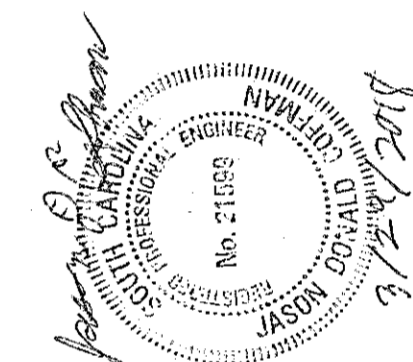
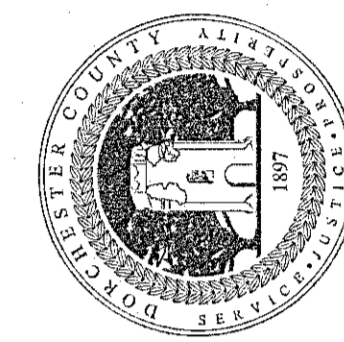


NEW 6" WATER LINE STRATTON CAPERS SUBDIVISION

DORCHESTER COUNTY, SOUTH CAROLINA

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



COVER SHEET

**NEW 6" WATER LINE
STRATTON CAPERS**
DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-29-18
DRAWN: STL
SCALE: 1"=200'

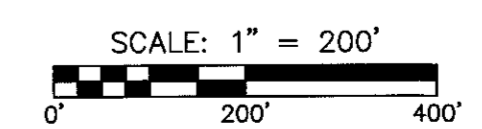
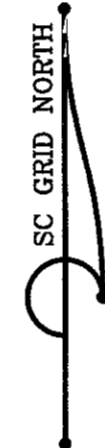
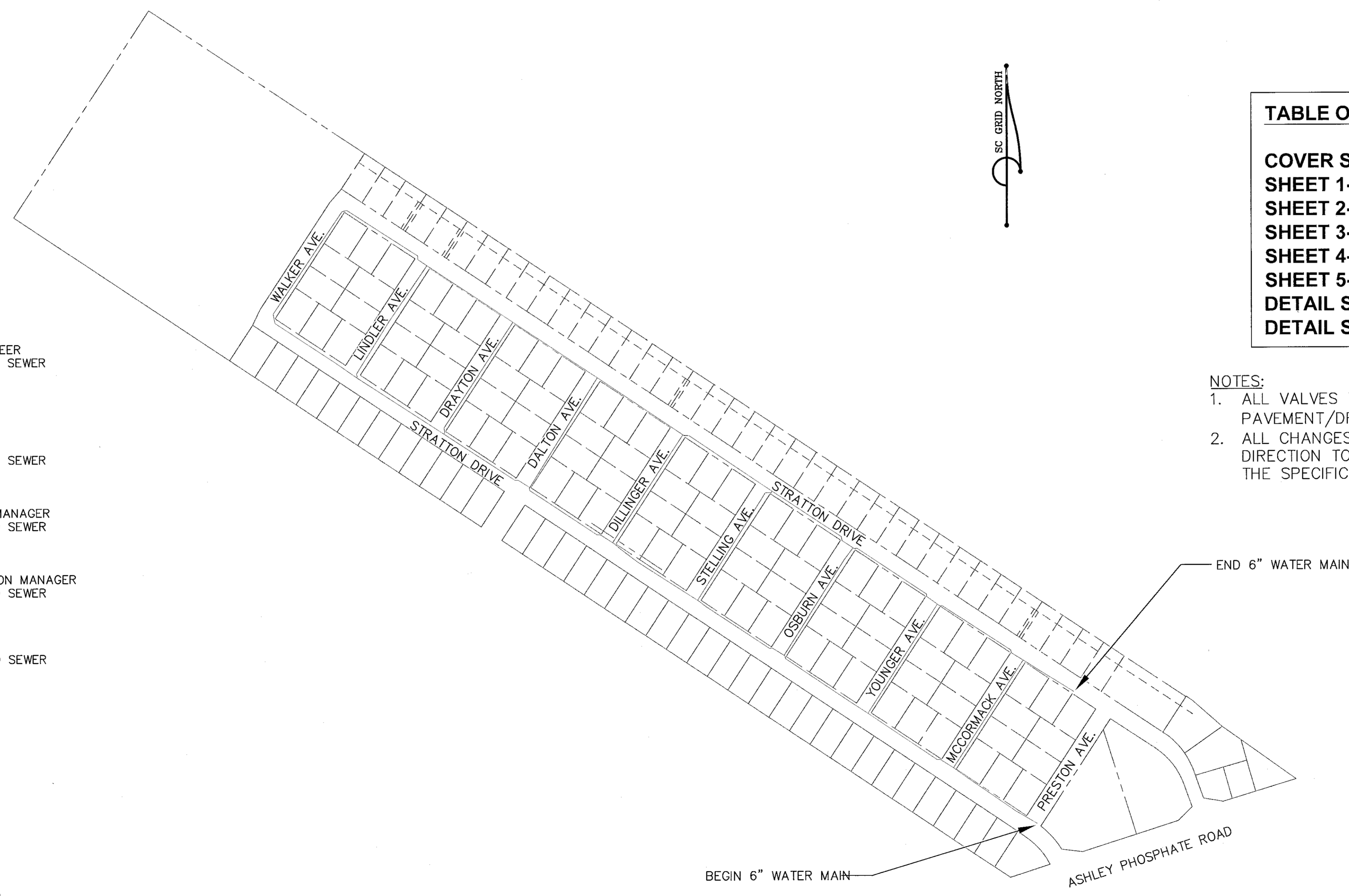
REVISIONS

COVER SHEET

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DETAIL SHEET 2

- NOTES:**
1. ALL VALVES TO BE LOCATED OUTSIDE OF PAVEMENT/DRIVEWAYS.
 2. ALL CHANGES IN HORIZONTAL AND/OR VERTICAL DIRECTION TO BE RESTRAINED ACCORDING TO THE SPECIFICATIONS.



CONTACTS:

JASON D. COFFMAN, P.E.
SENIOR WATER AND SEWER ENGINEER
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235 DEMING WAY
SUMMERVILLE, SC 29483
843-832-0093

LARRY HARPER, P.E.
DIRECTOR OF WATER AND SEWER
DORCHESTER COUNTY WATER AND SEWER
843-832-0075

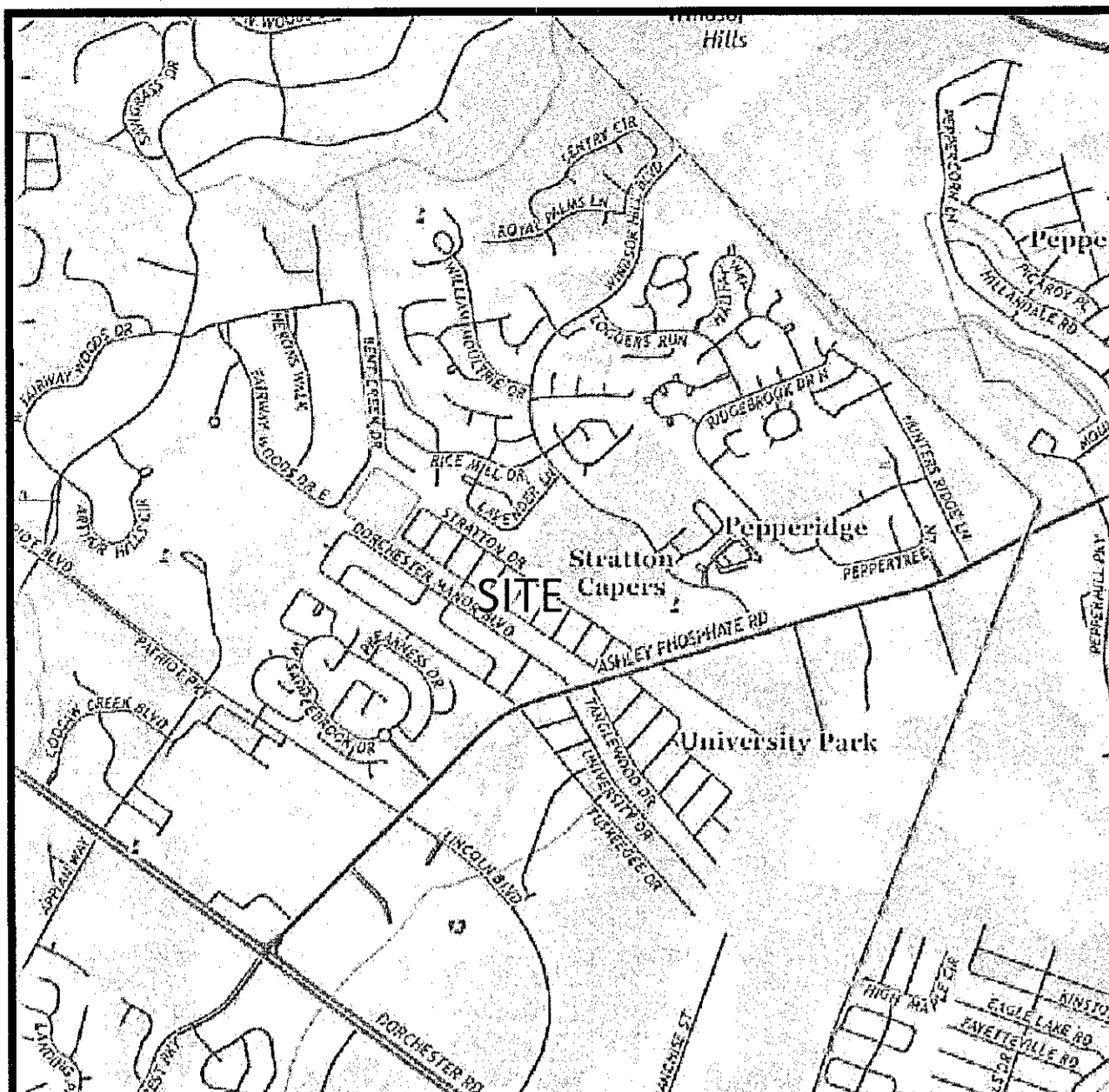
BRADLEY HARRIOTT
OPERATIONS AND MAINTENANCE MANAGER
DORCHESTER COUNTY WATER AND SEWER
843-297-2105

STEVEN RICKER
ENGINEERING & NEW CONSTRUCTION MANAGER
DORCHESTER COUNTY WATER AND SEWER
843-714-5721

OTIS WARD
UTILITY SUPERINTENDENT
DORCHESTER COUNTY WATER AND SEWER
843-259-1373



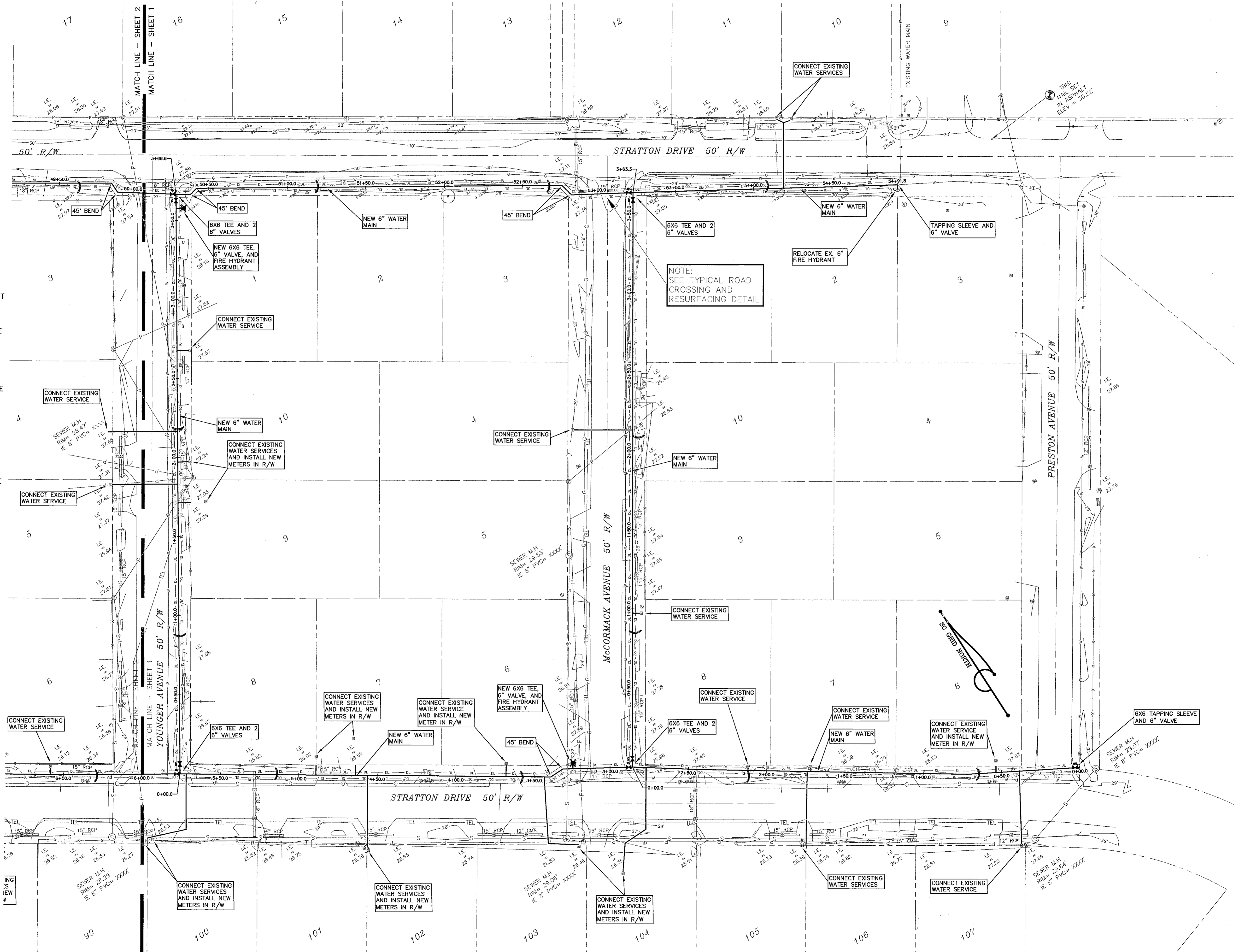
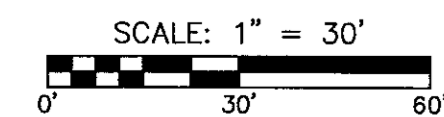
Know what's below.
Call before you dig.



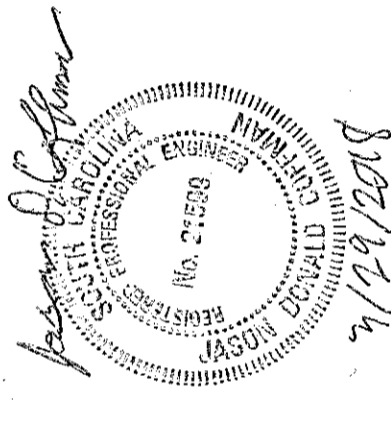
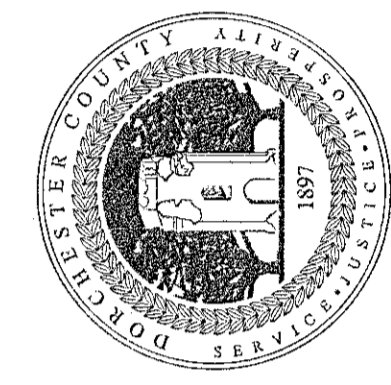
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- ⊙ - POWER POLE
 - ⊠ - TELEPHONE PEDESTAL
 - ⊡ - MAILBOX
 - ⊕ - EXISTING FIRE HYDRANT
 - ⊕ - NEW FIRE HYDRANT
 - ⊕ - WATER METER
 - ⊕ - EXISTING WATER VALVE
 - ⊕ - NEW WATER VALVE
 - ⊕ - GAS VALVE
 - ⊕ - CLEAN OUT
 - ⊕ - SEWER MANHOLE
 - ⊕ - STORM DRAIN MANHOLE
 - ⊕ - SIGN
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 - ⊕ - CENTER LINE
 - ⊕ - EASEMENT LINE
 - ⊕ - CONTOUR LINE
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 - ⊕ - STORM DRAIN
 - ⊕ - WATER LINE
 - ⊕ - GAS LINE
 - ⊕ - CABLE TELEVISION
 - ⊕ - TELEPHONE
 - ⊕ - LIMITS OF DISTURBED AREA
 - ⊕ - SEDIMENT TUBE



Know what's below.
Call before you dig.



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



WATER PLAN

NEW 6" WATER LINE
STRATTON CAPERS
 DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-29-18
 DRAWN: STL
 SCALE: 1" = 30'

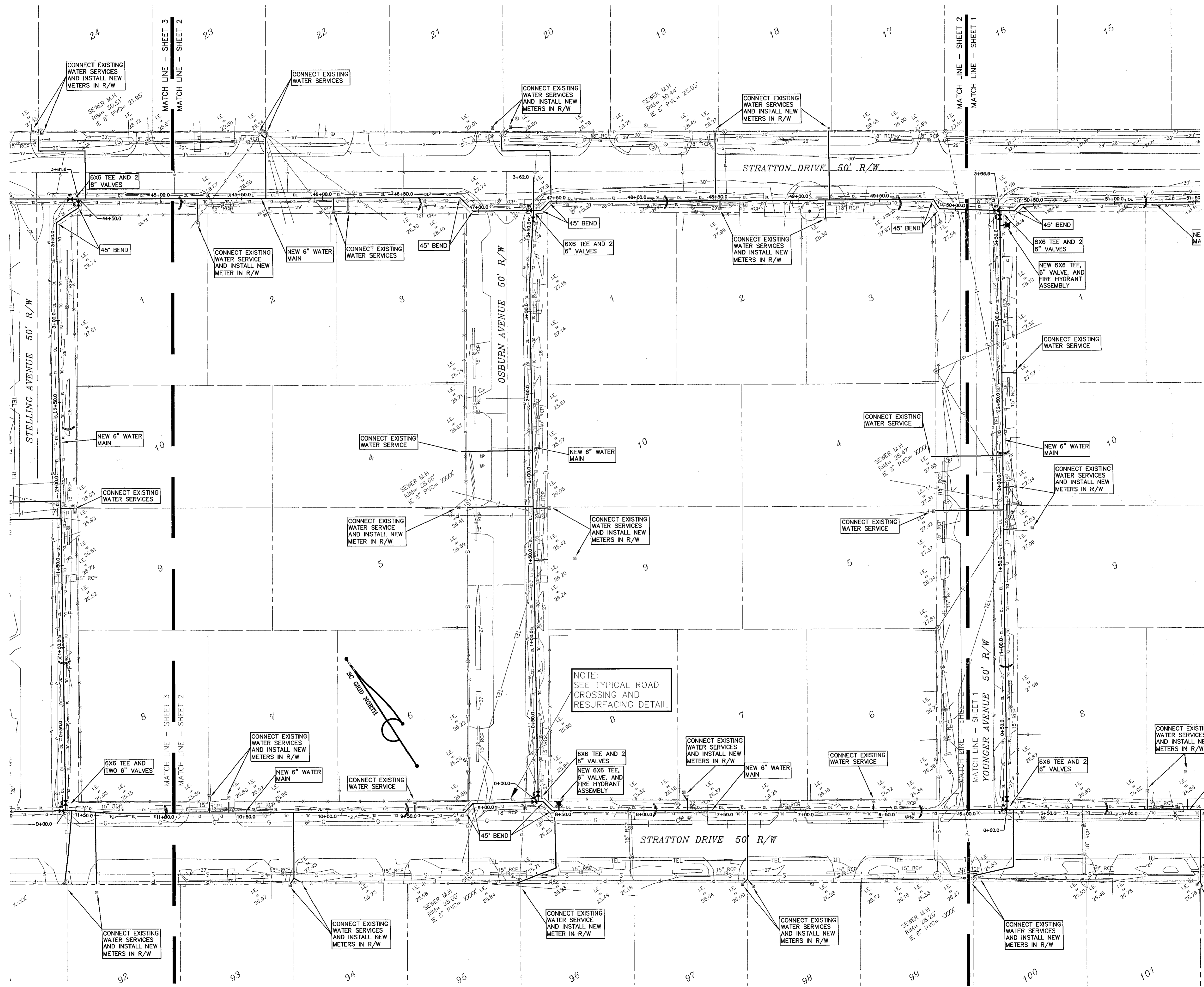
REVISIONS

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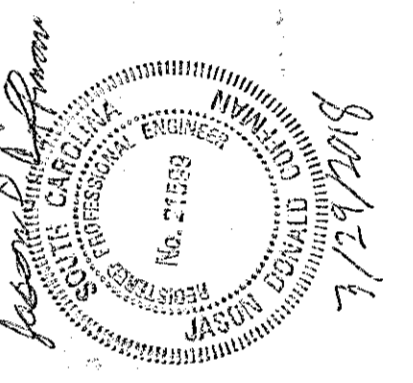
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 - ⊕ TELEPHONE
 - ⊕ LIMITS OF DISTURBED AREA
 - ⊕ SEDIMENT TUBE

811
Know what's below.
Call before you dig.

SCALE: 1" = 30'
0' 30' 60'



DORCHESTER COUNTY
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235 DEMING WAY
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WATER PLAN
NEW 6" WATER LINE
STRATTON CAPERS
DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-29-18
DRAWN: STL
SCALE: 1"=30'

REVISIONS

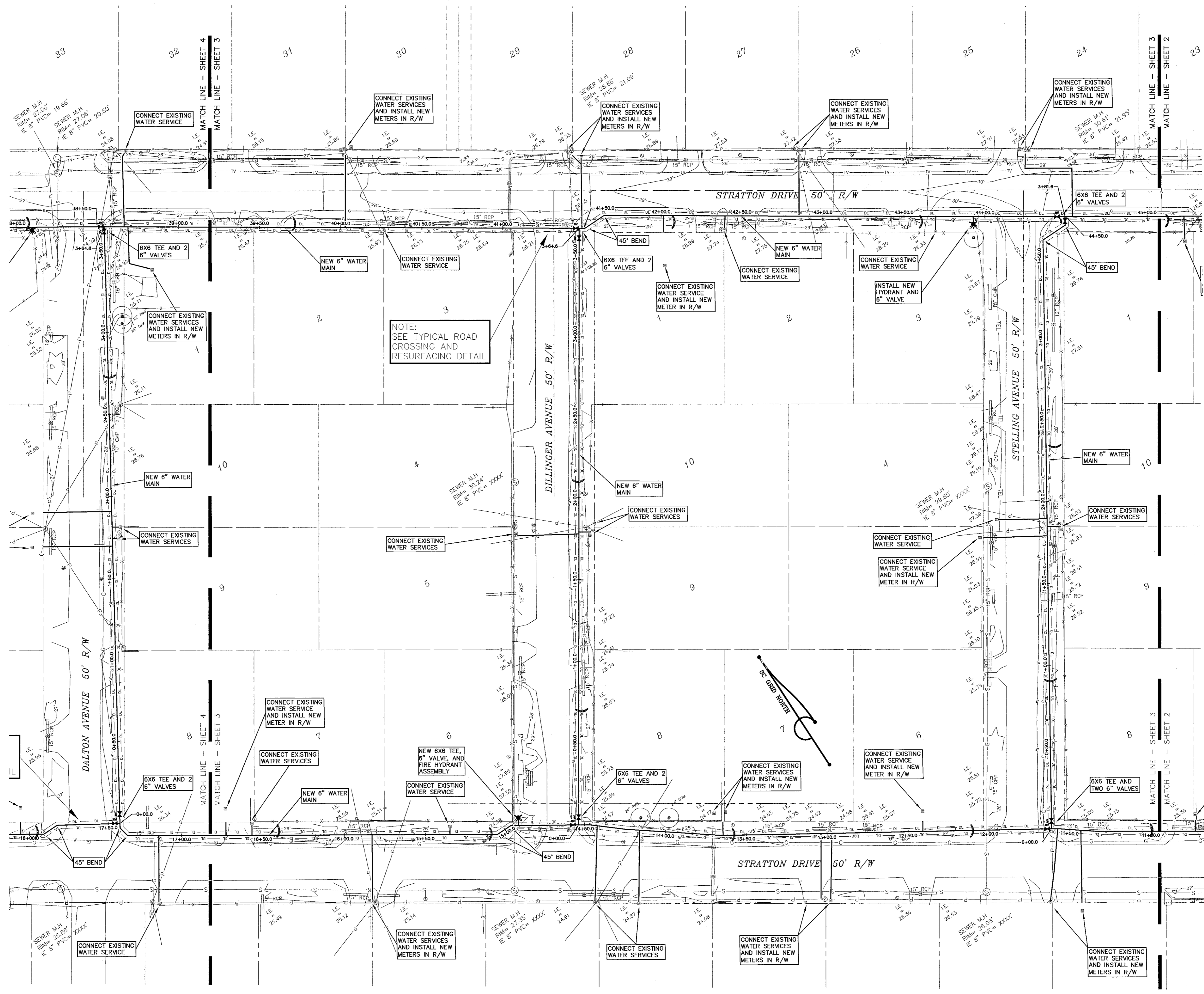
SHEET
2 of 5

- LEGEND:
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 - ⊙ TELEPHONE
 - ⊙ DL LIMITS OF DISTURBED AREA
 - ⊙ SEDIMENT TUBE

+7.86

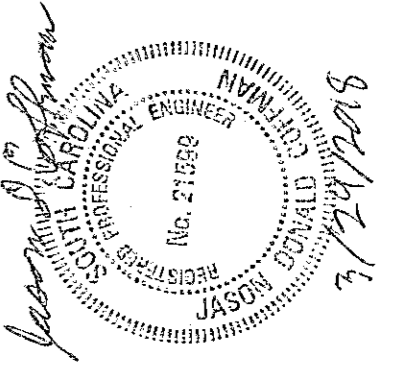
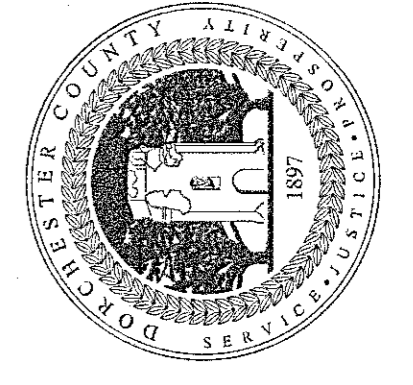
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Know what's below.
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SCALE: 1" = 30'



NOTE:
SEE TYPICAL ROAD
CROSSING AND
RESURFACING DETAIL

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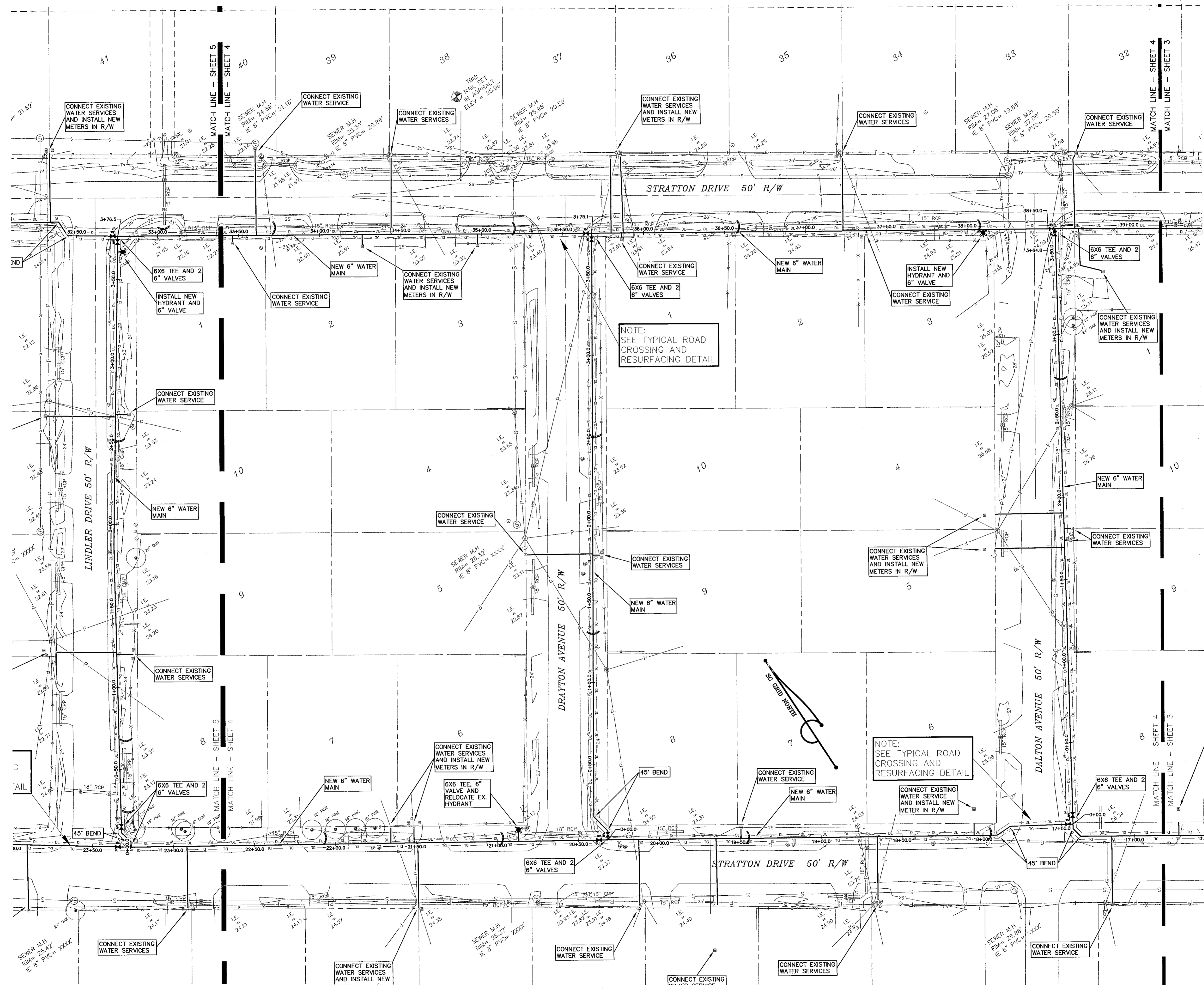
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STRATTON CAPERS
DORCHESTER COUNTY, SOUTH CAROLINA

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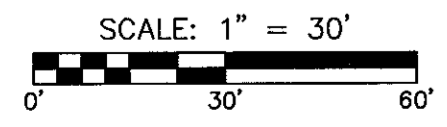
REVISIONS

**SHEET
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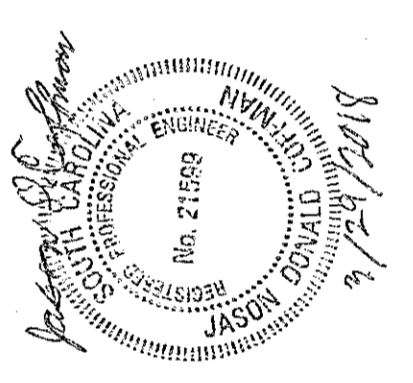
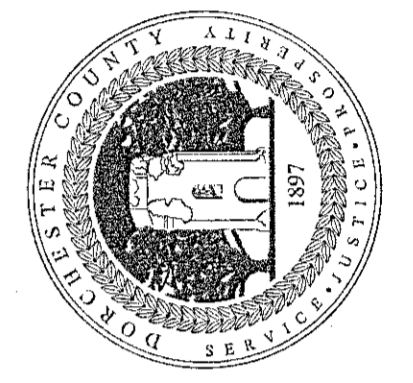
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 - EXISTING FIRE HYDRANT
 - NEW FIRE HYDRANT
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 - CENTER LINE
 - EASEMENT LINE
 - CONTOUR LINE
 - OVERHEAD POWER LINE
 - SEWER LINE
 - SD — STORM DRAIN
 - W — WATER LINE
 - G — GAS LINE
 - TV — CABLE TELEVISION
 - TEL — TELEPHONE
 - DL — LIMITS OF DISTURBED AREA
 - SEDIMENT TUBE



Know what's below.
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WATER PLAN
NEW 6" WATER LINE
STRATTON CAPERS
DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-29-18
DRAWN: STL
SCALE: 1"=30'

REVISIONS

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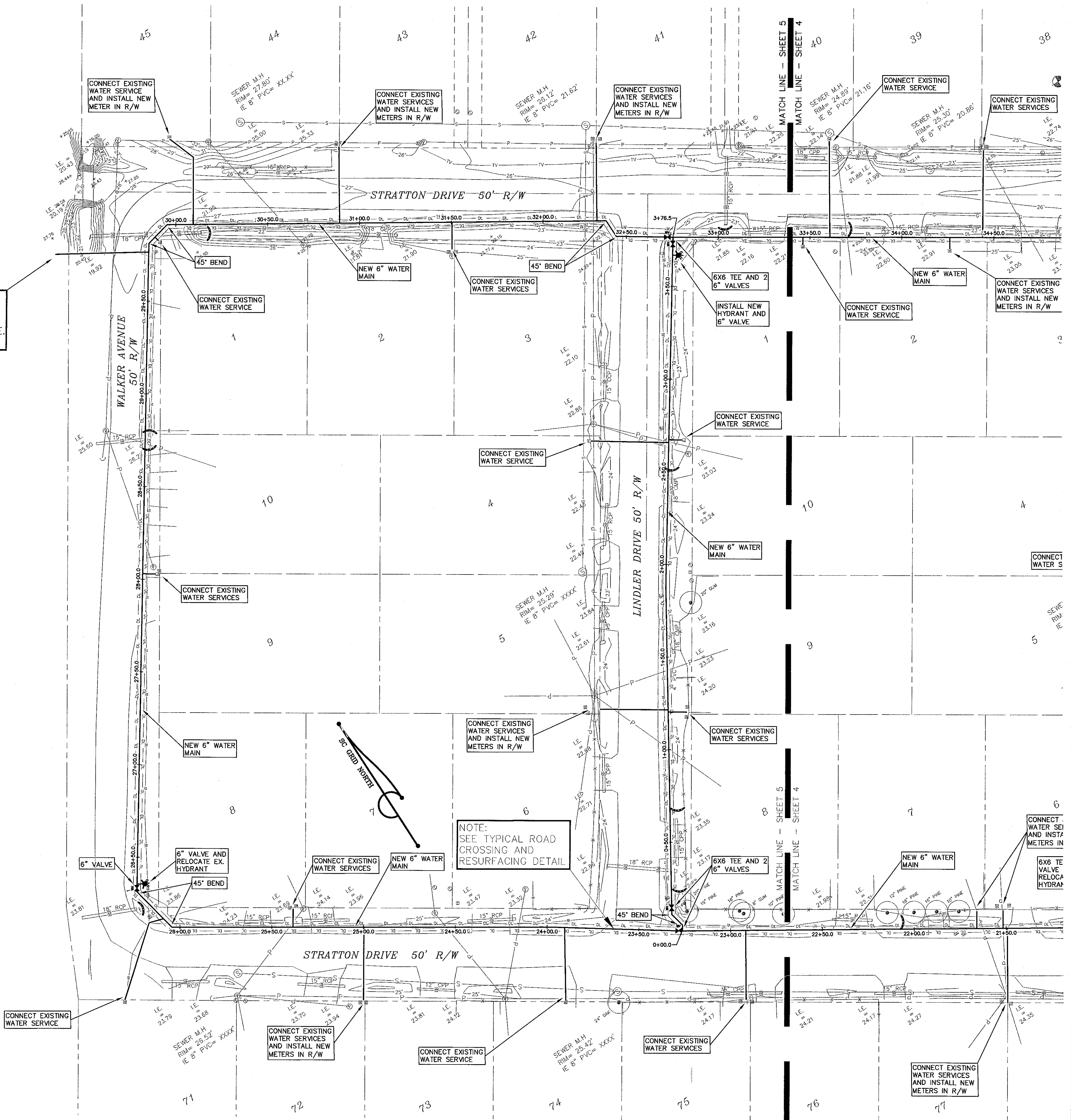
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 - — — — — TELEPHONE
 - — — — — LIMITS OF DISTURBED AREA
 - — — — — SEDIMENT TUBE

NOTE:
CONNECT EXISTING SERVICE FOR TOWER OFF OF WALKER AVE. LOCATION UNKNOWN

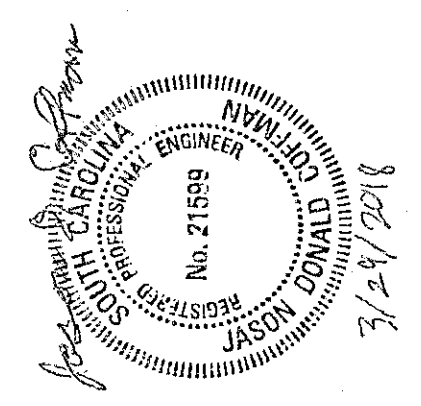
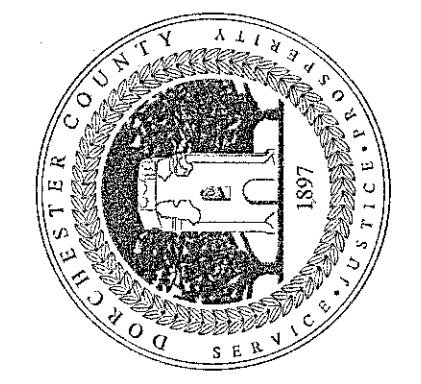
NOTE:
SEE TYPICAL ROAD CROSSING AND RESURFACING DETAIL

811
Know what's below.
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SCALE: 1" = 30'



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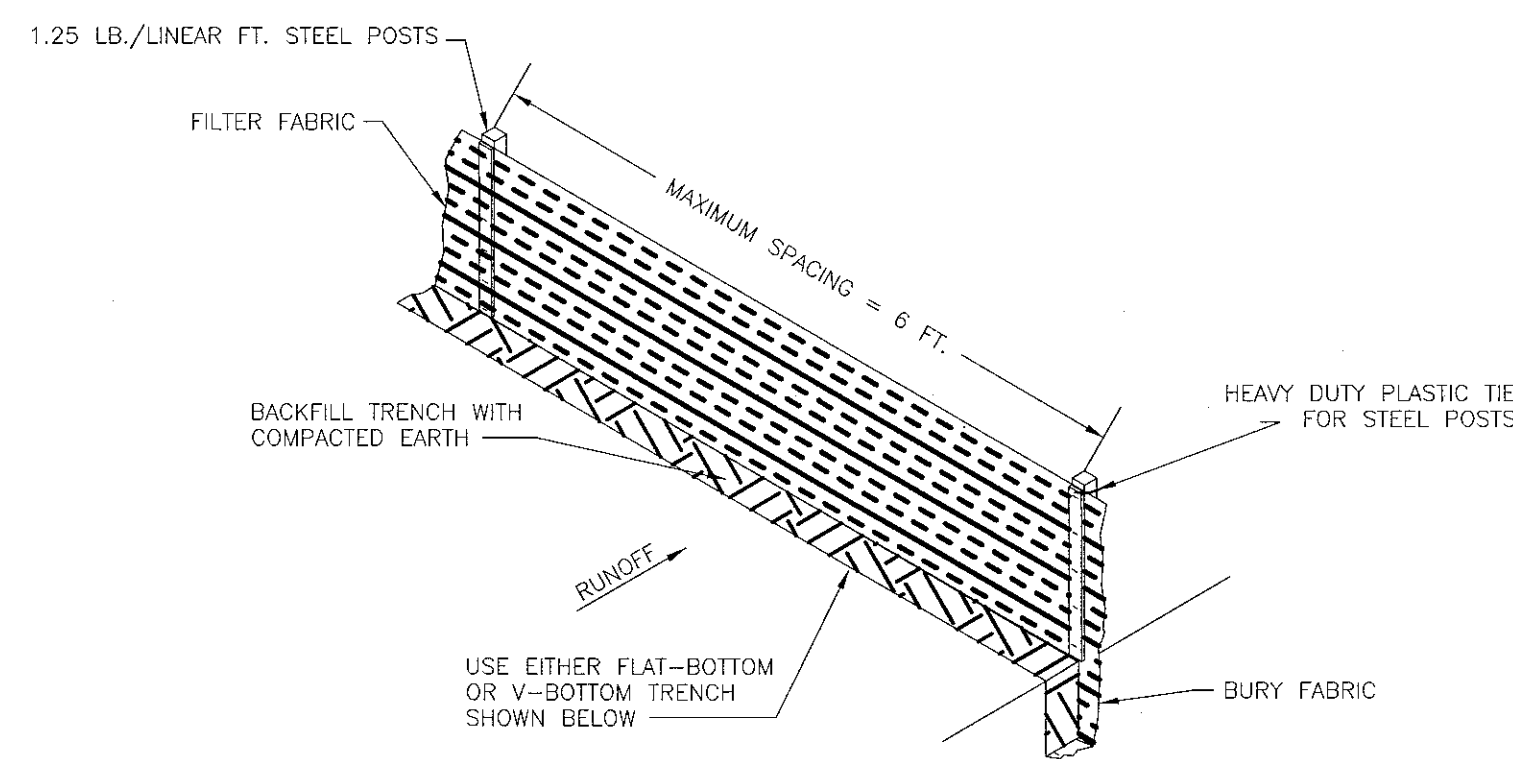
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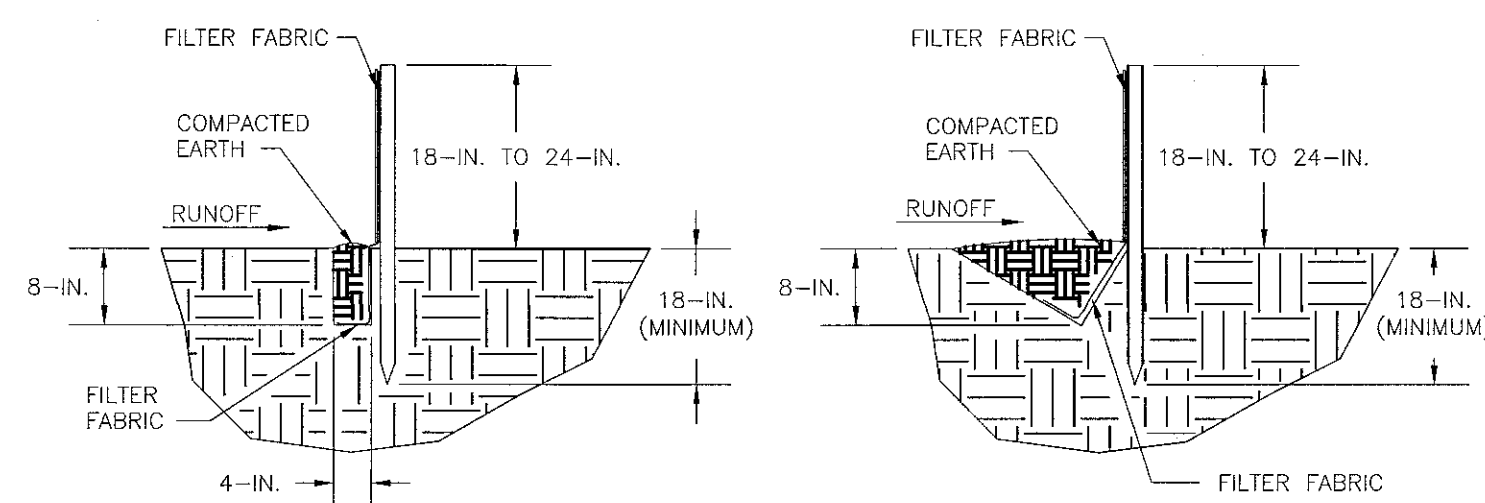
REVISIONS

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SEDIMENT TUBE INSTALLATION



SILT FENCE INSTALLATION

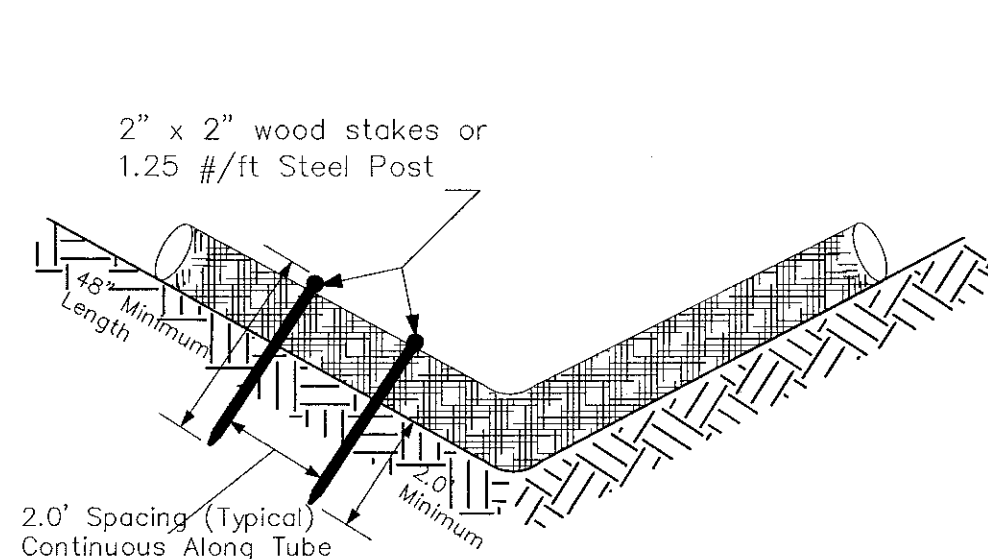


FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

SEDIMENT AND EROSION CONTROL PROCEDURES

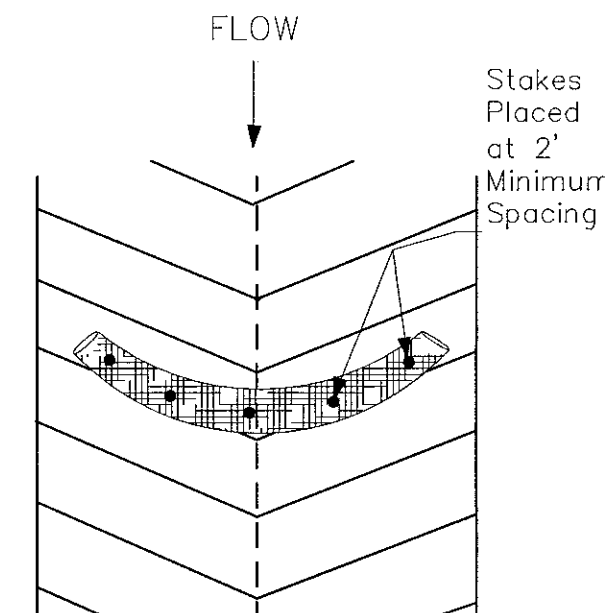
1. DURING CLEARING AND EARTHWORK ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES SPECIFIED AND AS INDICATED ON THE DRAWINGS. DURING EACH PHASE OF SITE CONSTRUCTION THE CONTRACTOR SHALL ADJUST, RELOCATE AND/OR REINSTALL AS APPLICABLE ALL EROSION CONTROL DEVICES AND MEASURES NECESSARY TO PREVENT SOIL EROSION AND SEDIMENT DISCHARGE FROM THE SITE.
2. 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.
3. SILT FENCE SHALL BE MAINTAINED AROUND THE DOWNSTREAM PERIMETER OF ALL ACTIVE EARTHWORK AREAS TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES.
4. TEMPORARY GRASSING AND SILT FENCE FILTER BARRIERS SHALL BE INSTALLED AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND LANDSCAPING IS INSTALLED.
5. THE CONTRACTOR SHALL IMMEDIATELY CLEANUP AND REPAIR ALL EROSION DAMAGE AFTER DISCOVERY AND REINSTALL ADEQUATE CONTROL MEASURES AS NECESSARY TO PREVENT REOCCURRENCE OF DAMAGE.



SEDIMENT TUBE SPACING

SEDIMENT TUBES – GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. 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.
7. 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.
8. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.



SEDIMENT TUBES – INSPECTION & MAINTENANCE

1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. 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.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. 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.
8. 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.

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

DHEC-OCRM STANDARD EROSION CONTROL NOTES

(LATEST REVISED STANDARD SC DHEC NOTES – DECEMBER 2012)

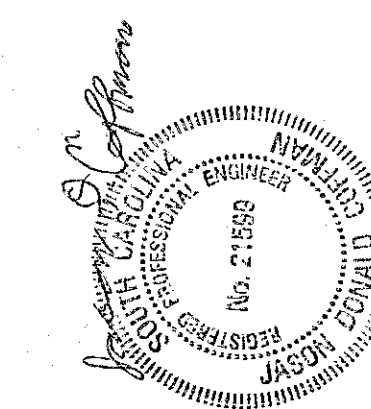
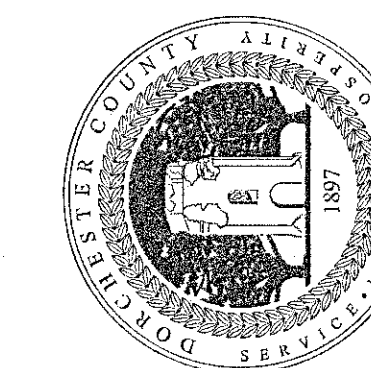
1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction.
2. Temporary berms may be needed until the slope is brought to grade. Stabilization 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
13. Minimize soil compaction and, unless infeasible, preserve topsoil.
14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.)
16. The following discharges from sites are prohibited:
 - Wastewater from washout of concrete, unless managed by an appropriate control;
 - Wastewater from washout and cleanout of slucco, paint, form release oils, curing compounds and other construction materials;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
 - Soaps or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.



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.

**DORCHESTER COUNTY
WATER & SEWER DEPARTMENT**
235 DEMING WAY
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FAX: (843) 832-0073



DETAIL SHEET

**NEW 6" WATER LINE
STRATTON CAPERS**
DORCHESTER COUNTY, SOUTH CAROLINA

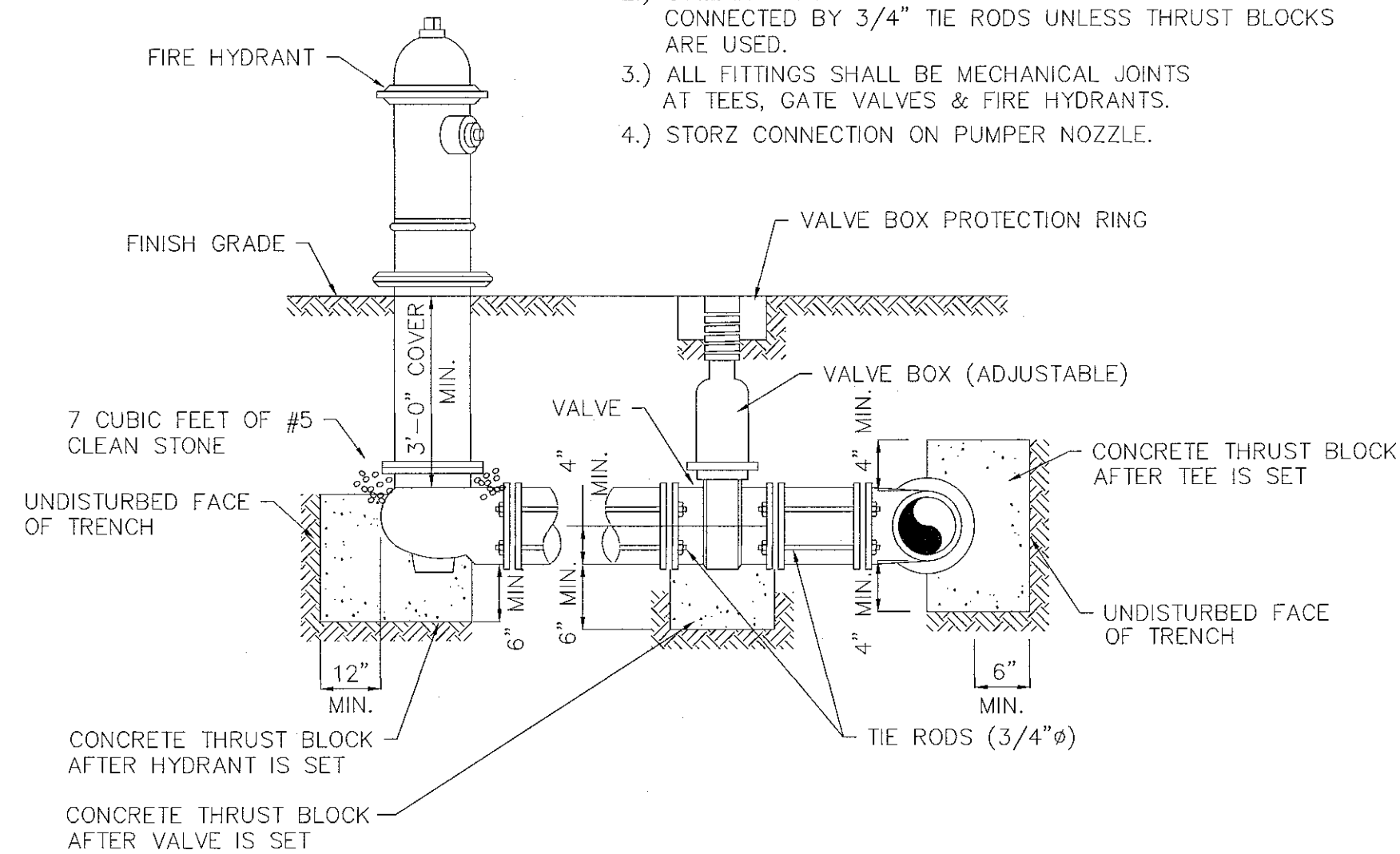
DATE: 3-29-18
DRAWN: STL
SCALE: N.T.S.

REVISIONS

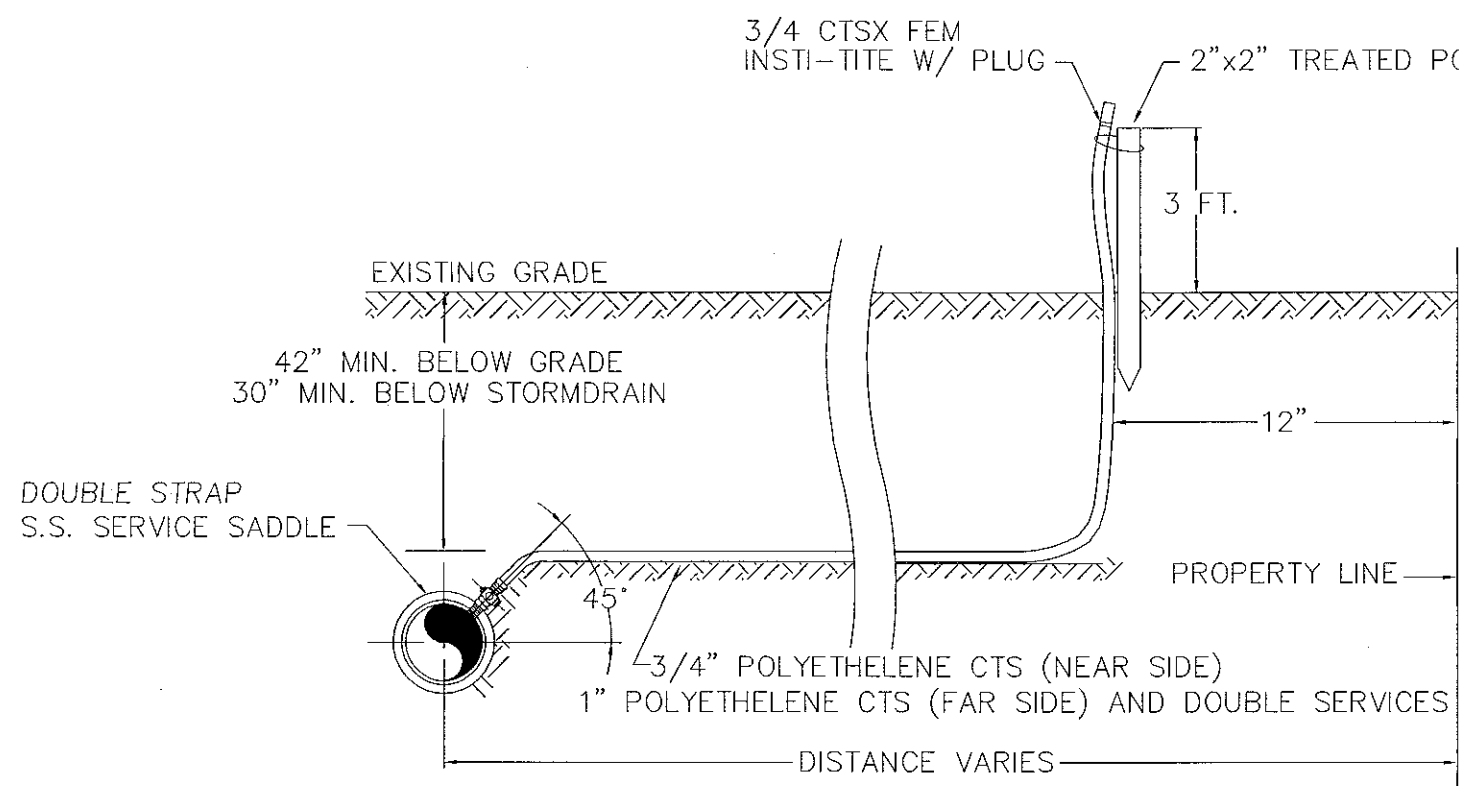
**DETAIL
SHEET 1**

HYDRANT NOTES:

- 1.) ALL FIRE HYDRANT LEADS TO BE 6" DIP CLASS 52 WITH MECHANICAL JOINTS.
- 2.) COLLARS ARE TO BE PLACED AROUND BELLS AND CONNECTED BY 3/4" TIE RODS UNLESS THRUST BLOCKS ARE USED.
- 3.) ALL FITTINGS SHALL BE MECHANICAL JOINTS AT TEES, GATE VALVES & FIRE HYDRANTS.
- 4.) STORZ CONNECTION ON PUMPER NOZZLE.

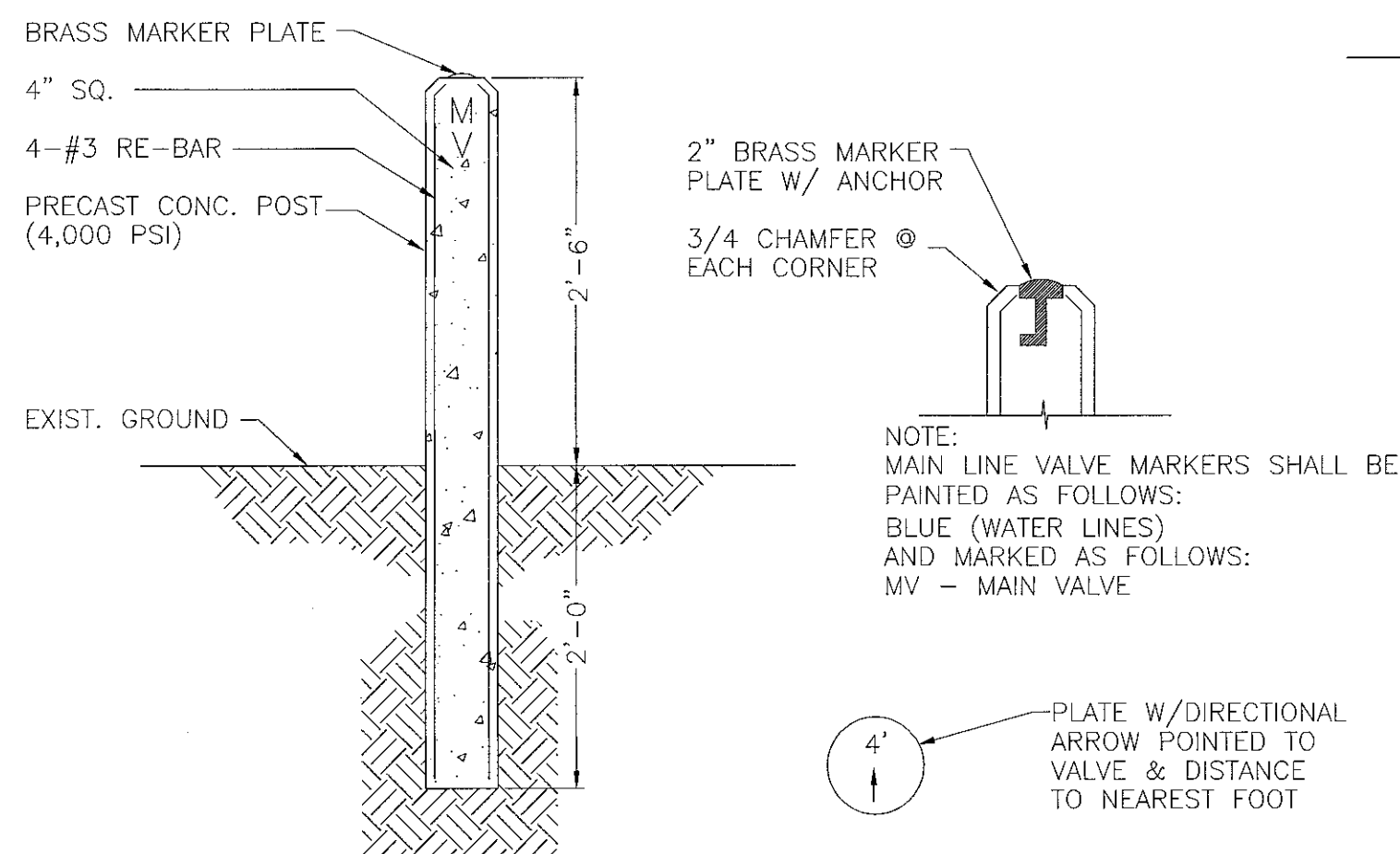


FIRE HYDRANT ASSEMBLY
N.T.S.



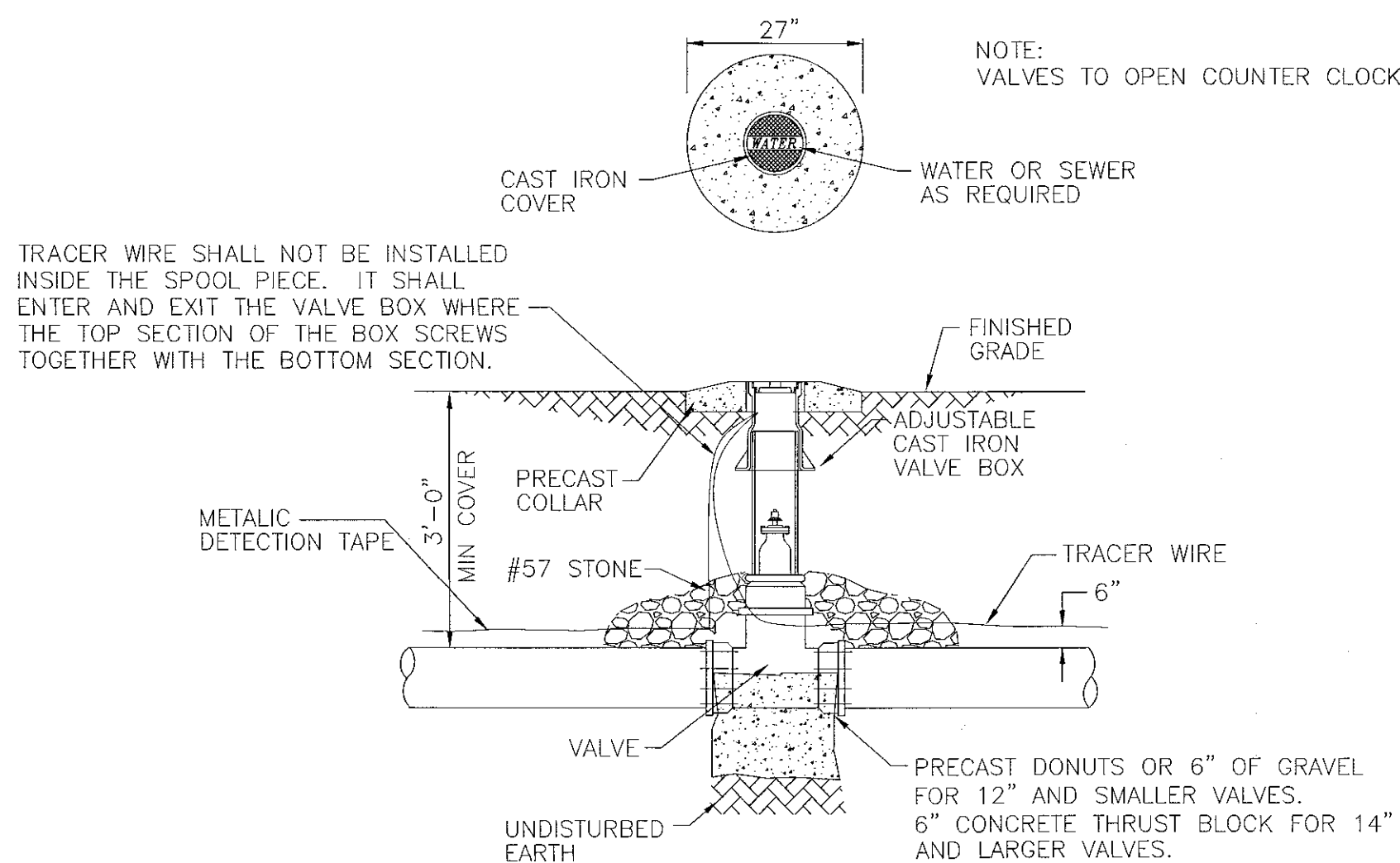
NOTE: FAR SIDE SERVICES TO BE INSTALLED IN A CASING CASING TO BE INSTALLED BY DIRECTIONAL BORE.

3/4\"/>

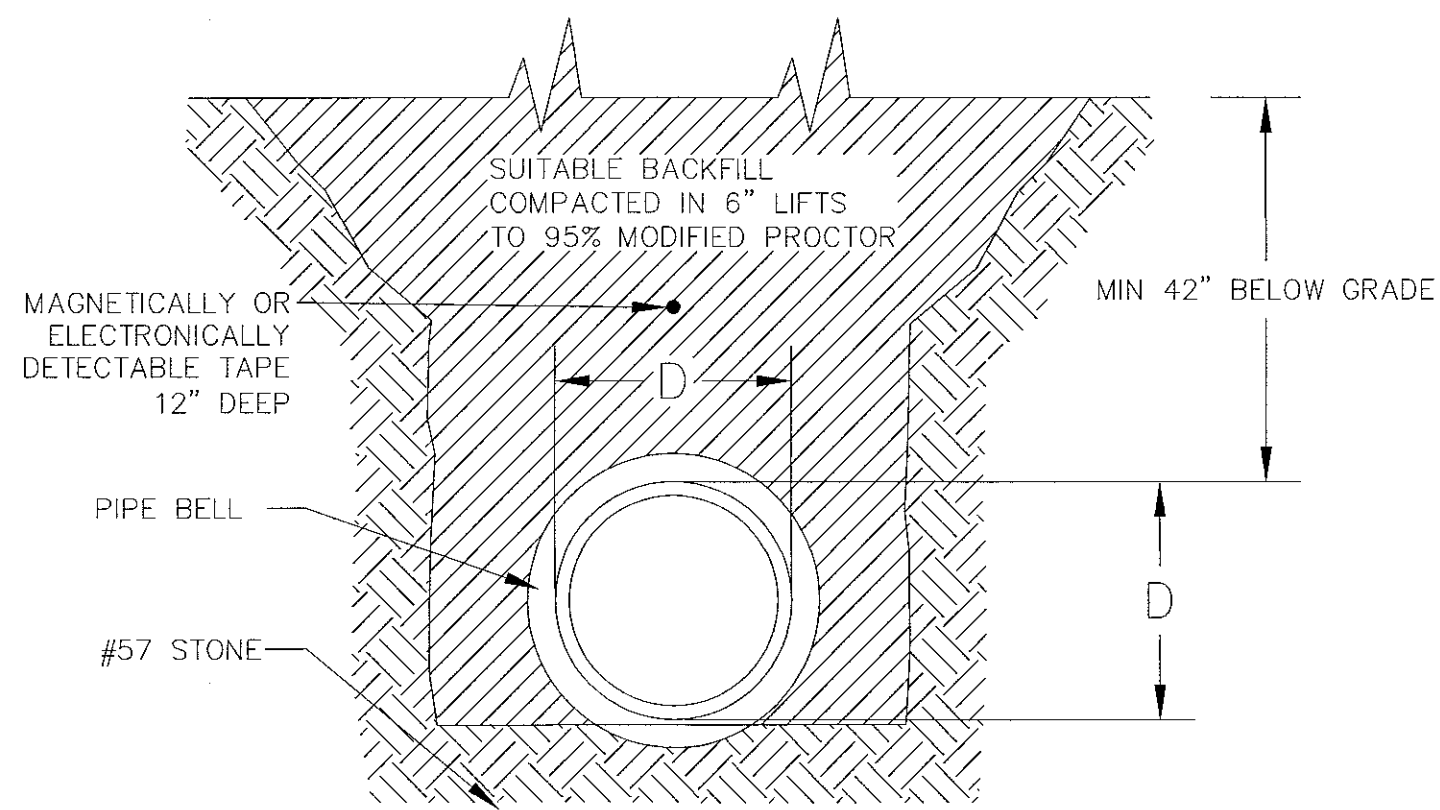


NOTE: MAIN LINE VALVE MARKERS SHALL BE PAINTED AS FOLLOWS: BLUE (WATER LINES) AND MARKED AS FOLLOWS: MV - MAIN VALVE

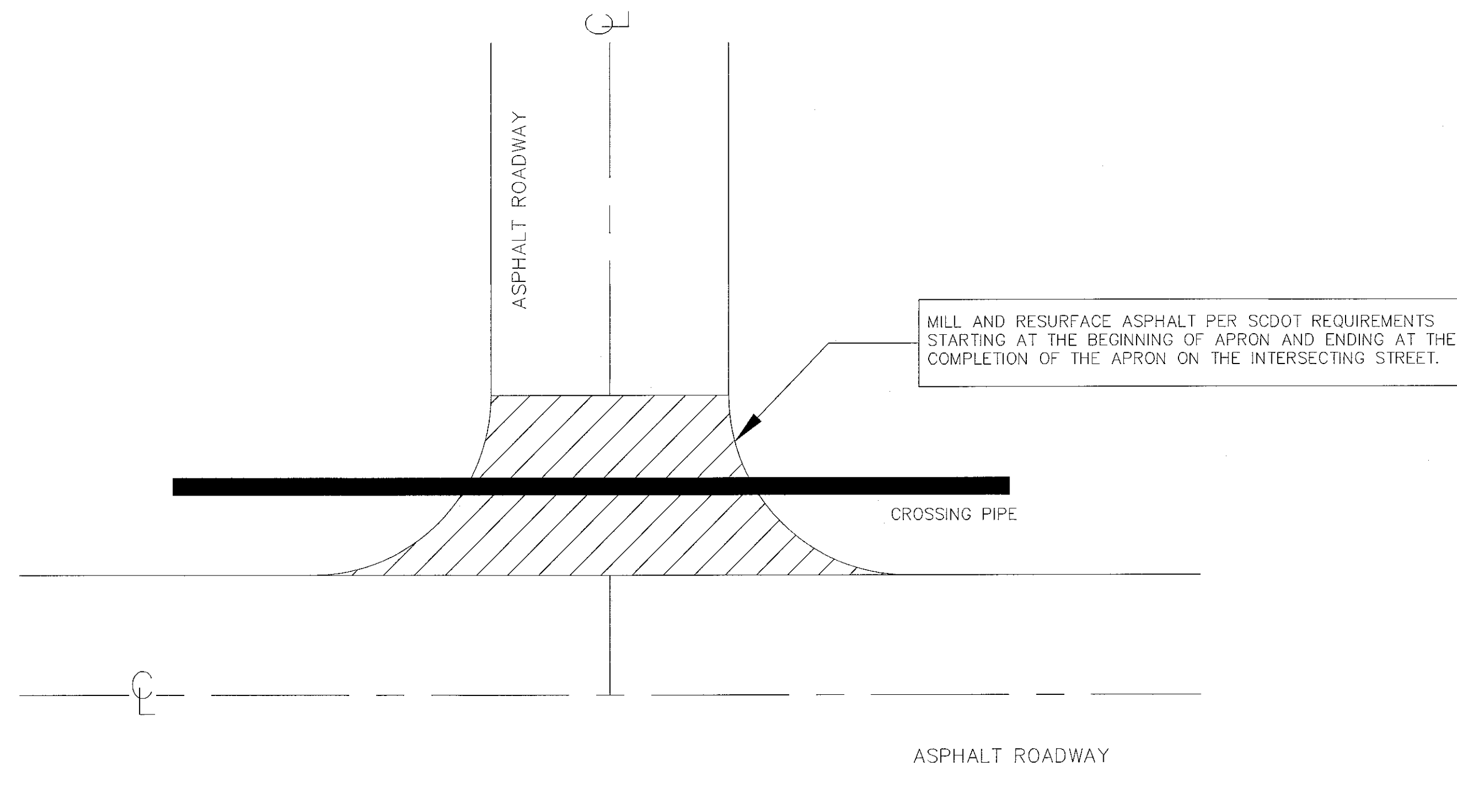
CONCRETE VALVE MARKER
N.T.S.



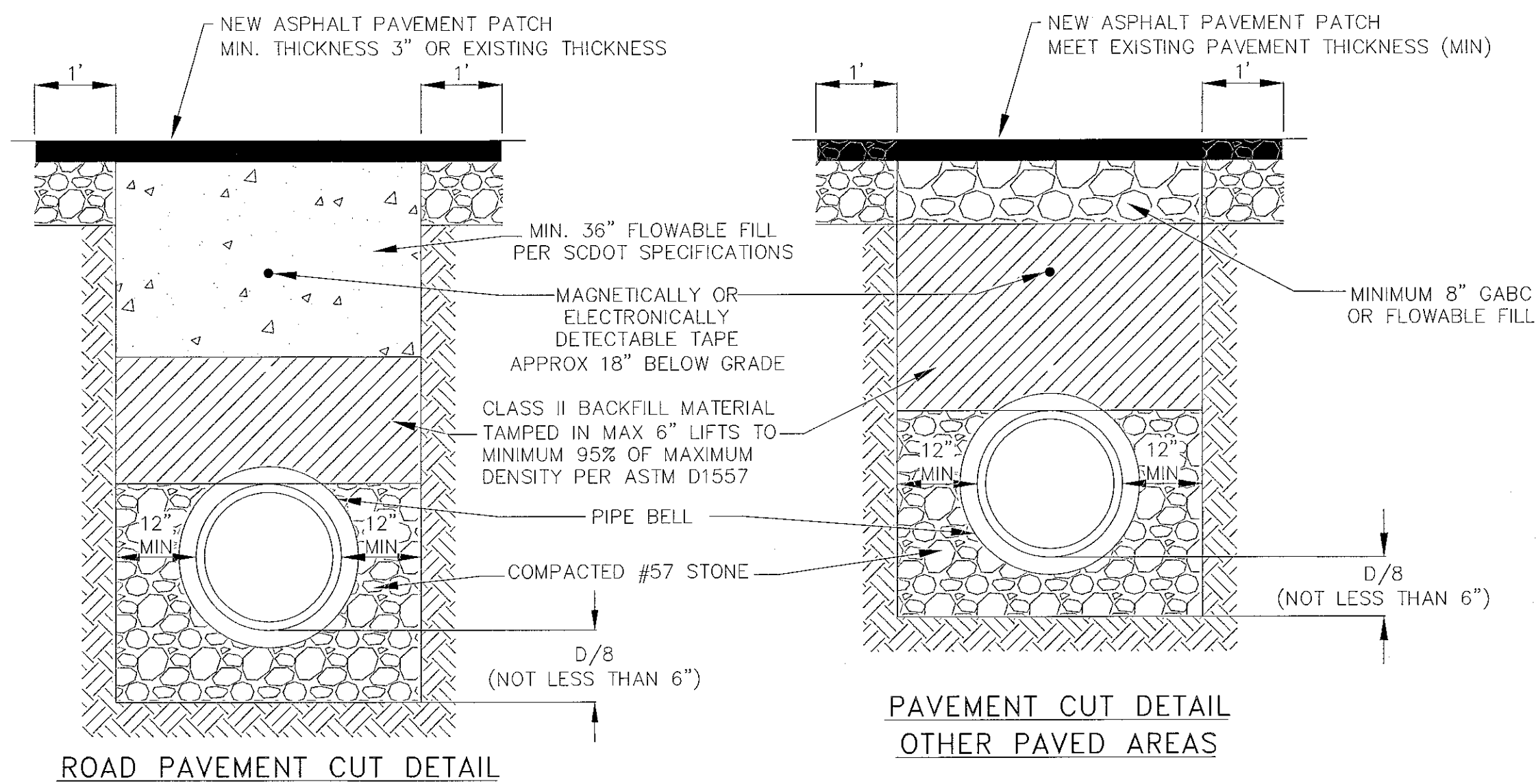
VALVE AND VALVE BOX
N.T.S.



TYP. WATER MAIN BEDDING
N.T.S.



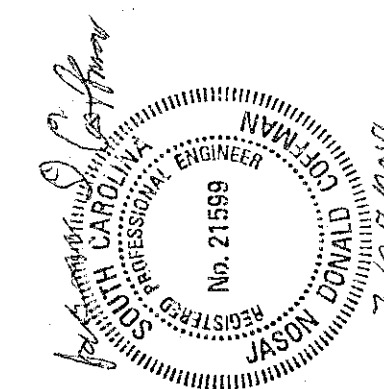
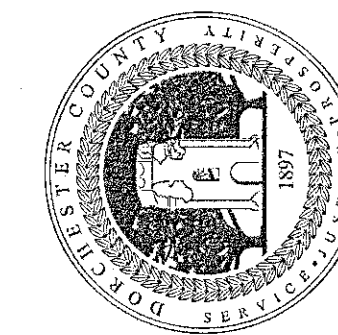
TYPICAL ROAD CROSSING AND RESURFACING DETAIL
N.T.S.



ROAD PAVEMENT CUT DETAIL

**PAVEMENT CUT DETAIL
OTHER PAVED AREAS**

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



DETAIL SHEET

**NEW 6" WATER LINE
STRATTON CAPERS**
DORCHESTER COUNTY, SOUTH CAROLINA

DATE: 3-29-18
DRAWN: STL
SCALE: N.T.S.

REVISIONS

DETAIL SHEET 2