

DECEMBER 2, 2013

ROUTINE DITCHING AND PIPE REPLACEMENT

STORMWATER & GIS SERVICES DIVISION
STREET MAINTENANCE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF DURHAM, NORTH CAROLINA

CONTRACT SD-2013-04

SHEET NO.	SHEET NAME/PROJECT SITE
1	COVER SHEET
2	GENERAL NOTES
3	ROUTINE DITCHING PLAN, NOTES, AND DETAILS
4	ROUTINE PIPE REPLACEMENT PLAN, NOTES, AND DETAILS



CITY OF DURHAM, NORTH CAROLINA
DEPARTMENT OF PUBLIC WORKS
STORMWATER & GIS SERVICES DIVISION
STREET MAINTENANCE DIVISION
101 CITY HALL PLAZA
DURHAM, NORTH CAROLINA 27701
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<http://durhamnc.gov/ich/op/pwd/storm/Pages/Home.aspx>

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GENERAL NOTES:

1. PLAN INFORMATION PROVIDED ON THESE DRAWINGS IS INTENDED TO DEPICT ROUTINE PROJECT SITES. ACTUAL FIELD CONDITIONS WILL VARY BETWEEN PROJECT SITES. CONTRACTOR SHALL MEET WITH THE RESIDENT PROJECT REPRESENTATIVE AT EACH PROPOSED SITE PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL DEVELOP A SCOPE OF WORK AND A LIST OF UNIT ITEMS FOR EACH SITE PRIOR TO COMMENCING ANY WORK. RESIDENT PROJECT REPRESENTATIVE SHALL REVIEW AND APPROVE THE SCOPE OF WORK AND LIST OF UNIT ITEMS PRIOR TO CONTRACTOR COMMENCING WORK.
2. SCHEMATIC BASE MAP INFORMATION IS AVAILABLE FROM THE CITY OF DURHAM. THE RESIDENT PROJECT REPRESENTATIVE SHALL PROVIDE A SCHEMATIC BASE MAP TO THE CONTRACTOR OF EACH PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK ON ANY PROJECT SITE. CONTRACTOR SHALL INFORM THE RESIDENT PROJECT REPRESENTATIVE OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND THESE DRAWINGS WHERE IT IS ANTICIPATED TO AFFECT THE WORK.
3. LOGISTICS OF EACH PROJECT SITE SHALL BE DISCUSSED IN DETAIL BY THE PRIVATE PROPERTY OWNER, ENGINEER, RESIDENT PROJECT REPRESENTATIVE, AND CONTRACTOR AT INDIVIDUAL PRE-RECONSTRUCTION MEETINGS FOR EACH PROJECT SITE PRIOR TO ANY WORK.
4. ALL CONTRACTORS, AT THE TIME OF BID, SHALL HAVE A VALID NORTH CAROLINA CONTRACTOR LICENSE AND UTILITY CONTRACTOR LICENSE. THESE LICENSES SHALL NOT EXPIRE DURING THE EXPECTED TIME OF CONSTRUCTION.
5. CONTRACTOR SHALL MAINTAIN A COPY OF THE CONTRACT DOCUMENTS (INCLUDING DRAWINGS), PERMITS, AND PERMIT PROVISIONS ON THE ACTIVE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES AND SHALL COORDINATE ALL WORK WITH THE RESIDENT PROJECT REPRESENTATIVE AND UTILITY COMPANIES (SEE UTILITY LOCATION NOTES ON THIS SHEET). UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE.
7. UNDERGROUND AND ABOVE GROUND FACILITIES HAVE BEEN SHOWN PICTORIALY ON THE DRAWINGS. HOWEVER, CONTRACTOR SHALL CONTACT THE APPROPRIATE LOCAL UTILITY COMPANIES TO FLAG EXISTING UNDERGROUND LINES PRIOR TO EXCAVATION.
8. WHEN REQUIRED BY THE RESIDENT PROJECT REPRESENTATIVE, CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR INDIVIDUAL PROJECT SITES PRIOR TO COMMENCING WORK. PLAN SHALL CONFORM TO THE REQUIREMENTS OF THE RESIDENT PROJECT REPRESENTATIVE AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RULES AND REGULATIONS.
9. CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING. ALL DISTURBED EXISTING LANDSCAPED AREAS TO REMAIN SHALL BE RESTORED TO EXISTING ELEVATIONS, SEEDED, AND MULCHED AS APPROPRIATE. LANDSCAPING IS INCLUDED IN THIS CONTRACT AND ALL AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER.
10. CONTRACTOR SHALL AVOID DAMAGING EXISTING PAVEMENT TO REMAIN. ALL EXISTING PAVEMENT TO REMAIN DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL REPLACE ALL REMOVED OR DAMAGED PAVEMENT TO REMAIN WITH SAME, INCLUDING MATERIAL, COLOR, AND TEXTURE. REPAIRED PAVEMENT SHALL BE REPLACED TO EXISTING PAVEMENT ELEVATIONS. CONTRACTOR SHALL NOT PROCEED WITH PAVING UNTIL ALL COMPACTION AND PROOFROLLING TESTS HAVE BEEN RECEIVED AND APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE.
12. CONTRACTOR SHALL NOT IMPEDE ACCESS TO EXISTING BUILDINGS OR AREAS AT THE PROJECT SITE WITHOUT THE APPROVAL OF THE PRIVATE PROPERTY OWNER AND THE RESIDENT PROJECT REPRESENTATIVE. IN AREAS WHERE ACCESS MAY BE RESTRICTED DUE TO THE WORK, THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE PROPERTY OWNER AND RESIDENT PROJECT REPRESENTATIVE A MINIMUM OF 72-HOURS IN ADVANCE OF A PROPOSED RESTRICTION OF ACCESS. CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES FOR USE WITHOUT INTERRUPTION.
13. ANY UTILITY SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE PRIVATE PROPERTY OWNER AND RESIDENT PROJECT REPRESENTATIVE A MINIMUM OF 15-DAYS IN ADVANCE OF THE PROPOSED INTERRUPTION.
14. CONTRACTOR SHALL PROVIDE A PRELIMINARY PROGRESS SCHEDULE PRIOR TO BEGINNING THE WORK, AND SHALL UPDATE SCHEDULE WEEKLY OR AS REQUIRED BY THE RESIDENT PROJECT REPRESENTATIVE. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT PROJECT REPRESENTATIVE TO PRODUCE THE PROGRESS SCHEDULE.
15. NO SOILS INVESTIGATION HAS BEEN CONDUCTED FOR THE PROJECT SITES IN THIS CONTRACT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DISCIPLINE AND TRADE COORDINATION.

UTILITY LOCATION NOTES:

THE FOLLOWING UTILITY OWNERS ARE MEMBERS OF THE BELOW LISTED ASSOCIATION AND OPERATE UNDERGROUND UTILITIES IN DURHAM COUNTY.

UTILITY NAME AND ADDRESS

CAROLINA POWER & LIGHT CO.:	P.O. BOX 1551, RALEIGH, NC 27602
GENERAL TELEPHONE CO. OF THE SOUTHEAST:	P.O. BOX 611, DURHAM, NC 27702
CITY OF DURHAM:	101 CITY HALL PLAZA, DURHAM, NC 27701
DURHAM CABLE VISION:	P.O. BOX 30002, DURHAM, NC 27701
PUBLIC SERVICE OF NORTH CAROLINA:	P.O. BOX 1398, GASTONIA, NC 28052
DUKE POWER CO.:	P.O. BOX 33189, CHARLOTTE, NC 28242
SOUTHERN BELL TELEPHONE CO.:	ROOM 720, SOUTHERN NATIONAL BANK BUILDING, CHARLOTTE, NC
AMERICAN TELEPHONE & TELEGRAPH COMMUNICATIONS:	900 FRANKLIN AVE., CHARLOTTE, NC 28206

AS PER ARTICLE 3 OF CHAPTER 87 OF THE NORTH CAROLINA GENERAL STATUTES, RECORD IS HEREBY MADE THAT THE ABOVE UTILITIES MAY BE NOTIFIED FOR THE PURPOSE OF LOCATING THEIR RESPECTIVE UNDERGROUND UTILITIES THROUGH THE ASSOCIATION KNOWN AS:

NORTH CAROLINA ONE-CALL CENTER

PHONE: (800) 632-4949 OR 811

WEB SITE: WWW.NCOCC.ORG

NOTE:

THE ABOVE LISTING IS OF ASSOCIATION MEMBERS ONLY. THERE IS A POSSIBILITY THAT NON-MEMBER UTILITY OWNERS ALSO OPERATE IN THE AREA.

ABBREVIATIONS:

ABBREVIATION	DESCRIPTION
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
EL	ELEVATION
EW	END WALL
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FES	FLARED END SECTION
FIRM	FLOOD INSURANCE RATE MAP
GW	GUY WIRE
INV	INVERT
LBS	POUNDS
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
NCDENR	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
NC DOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NCOCC	NORTH CAROLINA ONE-CALL CENTER
OC	ON CENTER
PP	POWER POLE
RCP	REINFORCED CONCRETE PIPE
SFHA	SPECIAL FLOOD HAZARD AREA
SD	STORM DRAINAGE
SDMH	STORM DRAINAGE MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SY	SQUARE YARDS
TYP	TYPICAL

CONTRACT SD-2013-04

GENERAL NOTES

ROUTINE DITCHING AND PIPE REPLACEMENT

SHEET NO. 2

STORMWATER & GIS SERVICES DIVISION
STREET MAINTENANCE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF DURHAM, NORTH CAROLINA

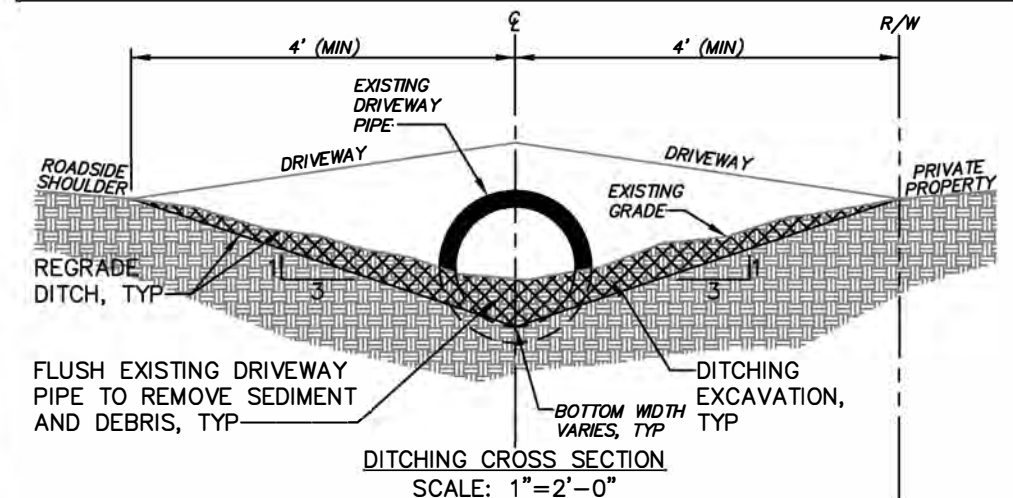
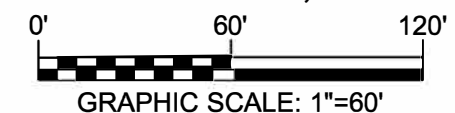
DECEMBER 2, 2013

CONTRACT: SD-2013-04 ROUTINE DITCHING AND PIPE REPLACEMENT

ROUTINE DITCHING PLAN, NOTES, AND DETAILS SHEET NO. 3

STORMWATER & GIS SERVICES DIVISION
STREET MAINTENANCE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF DURHAM, NORTH CAROLINA

DECEMBER 2, 2013



NOTES:

- ALL WORK TO BE COMPLETED WITHIN THE LIMITS OF CONSTRUCTION.
- DETERMINE ACTUAL LENGTHS, BEND ANGLES, SIZES, ETC. PRIOR TO ORDERING ANY MATERIALS.
- AS PER ARTICLE 3 OF CHAPTER 87 OF THE NORTH CAROLINA GENERAL STATUTES, UTILITIES SHALL BE NOTIFIED FOR THE PURPOSE OF LOCATING THEIR RESPECTIVE UNDERGROUND UTILITIES THROUGH THE ASSOCIATION KNOWN AS NORTH CAROLINA ONE-CALL CENTER, PHONE: (800) 632-4949 OR 811, WEB SITE: <http://nc811.org/homepage.htm>.
- ALL WORK SHALL CONFORM TO FOLLOWING CITY OF DURHAM PUBLIC WORKS DEPARTMENT STANDARDS. ALL DOCUMENTS MAY BE DOWNLOADED AT: <http://durhamnc.gov/ich/cq/fwd/eng/Pages/ConsSpecs.aspx>.
 - REFERENCE GUIDE FOR DEVELOPMENT
 - WATER AND SEWER SPECIFICATIONS
 - STREET SPECIFICATIONS
 - STANDARD DETAILS
- ALL WORK SHALL CONFORM TO THE NCDOT STANDARD SPECIFICATIONS (CURRENT VERSION) AND APPLICABLE REVISIONS. THE NCDOT STANDARD SPECIFICATIONS MAY BE DOWNLOADED AT: http://www.ncdot.gov/DOH/PRECONSTRUCT/ps/specifications/specifications_provisions.html.
- ALL WORK SHALL CONFORM TO THE NCDOT STANDARD DRAWINGS (CURRENT VERSION) AND APPLICABLE REVISIONS. THE NCDOT STANDARD DRAWINGS MAY BE DOWNLOADED AT: http://www.ncdot.gov/DOH/PRECONSTRUCT/ps/std_draw/default.html.
- ALL WORK SHALL CONFORM TO THE NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CURRENT VERSION). THE NCDENR MANUAL MAY BE DOWNLOADED AT: <http://portal.ncdenr.org/web/ir/publications>.
- IN THE EVENT OF CONFLICTING STANDARDS OR DETAILS, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION.
- PLAN INFORMATION PROVIDED ON THESE DRAWINGS IS INTENDED TO DEPICT ROUTINE PROJECT SITES. ACTUAL FIELD CONDITIONS WILL VARY BETWEEN PROJECT SITES. CONTRACTOR SHALL MEET WITH THE RESIDENT PROJECT REPRESENTATIVE AT EACH PROPOSED SITE PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL DEVELOP A SCOPE OF WORK AND A LIST OF UNIT ITEMS FOR EACH SITE PRIOR TO COMMENCING ANY WORK. RESIDENT PROJECT REPRESENTATIVE SHALL REVIEW AND APPROVE THE SCOPE OF WORK AND LIST OF UNIT ITEMS PRIOR TO CONTRACTOR COMMENCING WORK.
- SCHEMATIC BASE MAP INFORMATION IS AVAILABLE FROM THE CITY OF DURHAM. THE RESIDENT PROJECT REPRESENTATIVE SHALL PROVIDE A SCHEMATIC BASE MAP TO THE CONTRACTOR OF EACH PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK ON ANY PROJECT SITE. CONTRACTOR SHALL INFORM THE RESIDENT PROJECT REPRESENTATIVE OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND THESE DRAWINGS WHERE IT IS ANTICIPATED TO AFFECT THE WORK.

- ### DRIVEWAY PIPE NOTES:
- ALL WORK TO BE PERFORMED WITHIN CITY OF DURHAM PUBLIC RIGHTS-OF-WAY. NO DRIVEWAY PIPE REPLACEMENT SHALL BE PERFORMED ON PRIVATE PROPERTY, PRIVATE RIGHTS-OF-WAY, OR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) RIGHTS-OF-WAY.
 - REPLACE EXISTING DRIVEWAY PIPES AS DIRECTED BY ENGINEER.
 - ALL REPLACEMENT DRIVEWAY PIPES SHALL BE REINFORCED CONCRETE PIPE.
 - THE DIAMETER OF THE REPLACEMENT DRIVEWAY PIPE SHALL MATCH THE DIAMETER OF EXISTING DRIVEWAY PIPE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - THE MINIMUM DIAMETER FOR REPLACEMENT DRIVEWAY PIPE IS 15-INCHES.
 - THE SLOPE OF THE REPLACEMENT DRIVEWAY PIPE SHALL MATCH THE SLOPE OF THE EXISTING DRIVEWAY PIPE, MINIMUM 1% UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - DRIVEWAY PIPE REPLACEMENT SHALL MEET THE FOLLOWING STANDARDS.
 - Driveway Construction with Strip Pavement, City of Durham, Department of Public Works, Detail ST-9.2.
 - Method of Pipe Installation (Rigid Pipe), NCDOT Standard Drawing 300.01.
 - Driveway Pipe Construction, NCDOT Standard Drawing 310.10.

WORK AREA AND CONSTRUCTION LIMITS, TYP

REGRADE EXISTING DITCH, TYP

FLUSH ALL EXISTING DRIVEWAY PIPES TO REMOVE SEDIMENT AND DEBRIS, TYP. ENGINEER SHALL INSPECT EXISTING DRIVEWAY PIPES TO ASSESS CONDITION, TYP.

SEED AND MULCH ALL DISTURBED AREAS. INSTALL MATTING FOR EROSION CONTROL AS DIRECTED BY THE ENGINEER, TYP.

REMOVE AND REPLACE EXISTING DRIVEWAY PIPE AS DIRECTED BY THE ENGINEER. REMOVE EXISTING PAVING (GRAVEL, ASPHALT, CONCRETE) IN ORDER TO INSTALL NEW PIPE. REPLACEMENT PAVING SHALL BE INCIDENTAL STONE BASE. ALLOW PROPERTY OWNER AN OPPORTUNITY TO REMOVE NON-STANDARD ITEMS PRIOR TO PIPE REPLACEMENT. INSTALL RIP RAP APRON AS DIRECTED BY THE ENGINEER.

DITCHING NOTES:

- ALL WORK TO BE PERFORMED WITHIN CITY OF DURHAM PUBLIC RIGHTS-OF-WAY. NO DITCHING SHALL BE PERFORMED ON PRIVATE PROPERTY, PRIVATE RIGHTS-OF-WAY, OR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) RIGHTS-OF-WAY.
- CONTRACTOR SHALL DETERMINE SLOPE OF EXISTING DITCH. REGRADED DITCH SHALL MATCH EXISTING SLOPE, MINIMUM 1% UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- FLUSHING OF DRIVEWAY PIPES WITHIN THE WORK AREA IN INCIDENTAL.

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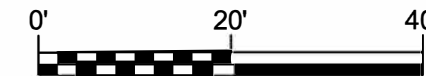
CONTRACT: SD-2013-04 ROUTINE DITCHING AND PIPE REPLACEMENT

ROUTINE PIPE REPLACEMENT PLAN, NOTES, AND DETAILS

SHEET NO. 4

STORMWATER & GIS SERVICES DIVISION
STREET MAINTENANCE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF DURHAM, NORTH CAROLINA

DECEMBER 2, 2013

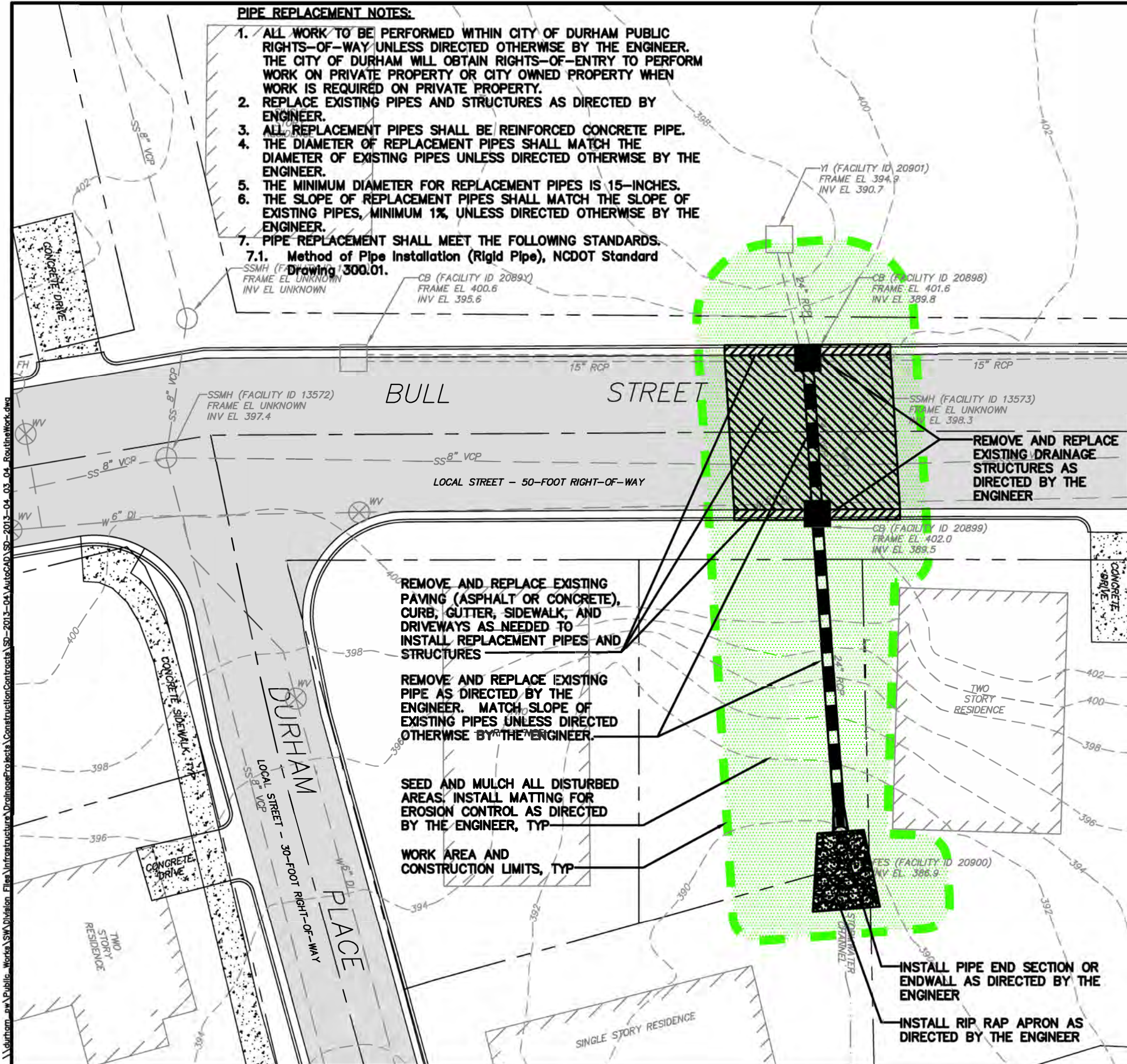


GRAPHIC SCALE: 1"=20'

PIPE REPLACEMENT NOTES:

1. ALL WORK TO BE PERFORMED WITHIN CITY OF DURHAM PUBLIC RIGHTS-OF-WAY UNLESS DIRECTED OTHERWISE BY THE ENGINEER. THE CITY OF DURHAM WILL OBTAIN RIGHTS-OF-ENTRY TO PERFORM WORK ON PRIVATE PROPERTY OR CITY OWNED PROPERTY WHEN WORK IS REQUIRED ON PRIVATE PROPERTY.
2. REPLACE EXISTING PIPES AND STRUCTURES AS DIRECTED BY ENGINEER.
3. ALL REPLACEMENT PIPES SHALL BE REINFORCED CONCRETE PIPE.
4. THE DIAMETER OF REPLACEMENT PIPES SHALL MATCH THE DIAMETER OF EXISTING PIPES UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
5. THE MINIMUM DIAMETER FOR REPLACEMENT PIPES IS 15-INCHES.
6. THE SLOPE OF REPLACEMENT PIPES SHALL MATCH THE SLOPE OF EXISTING PIPES, MINIMUM 1%, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
7. PIPE REPLACEMENT SHALL MEET THE FOLLOWING STANDARDS.
 - 7.1. Method of Pipe Installation (Rigid Pipe), NCDOT Standard Drawing 300.01.

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NOTES:

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