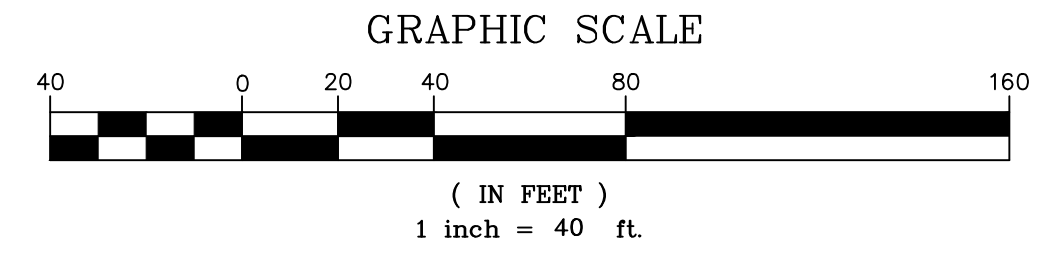


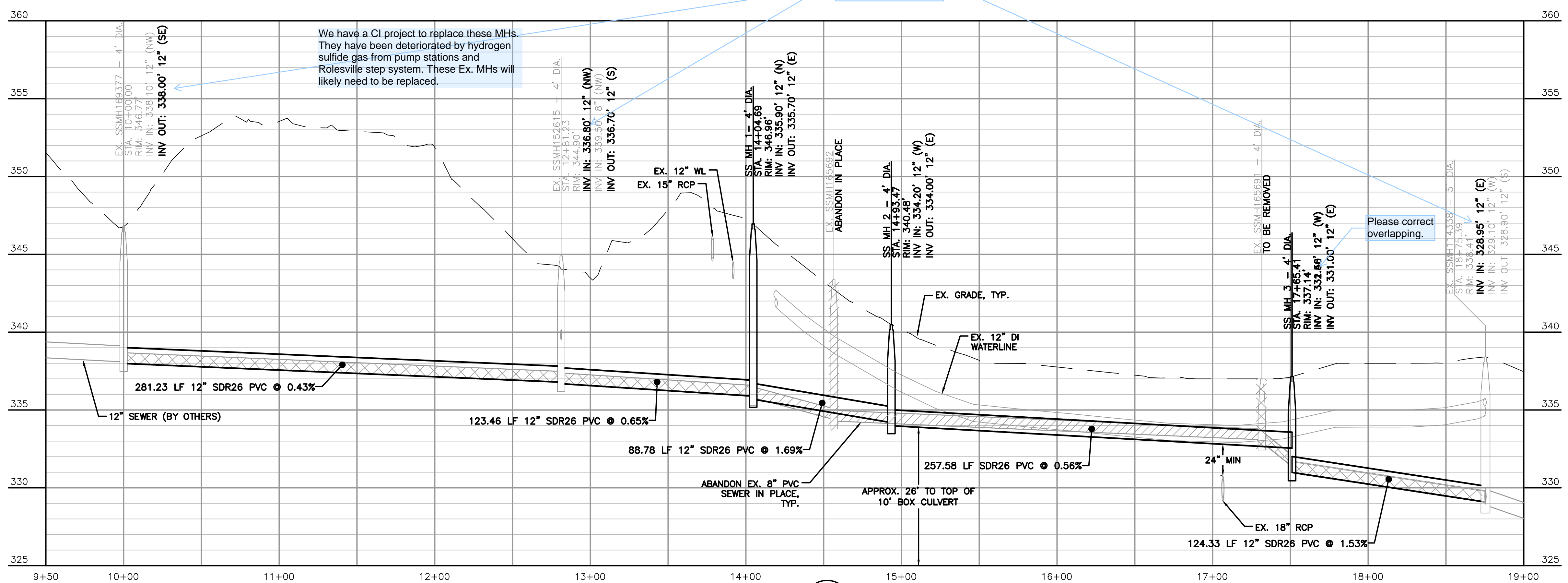
1 PLAN - STA. 10+00 TO 18+75
SCALE: 1" = 40'



MANHOLE EPOXY LINER NOTES:

- INTERIOR LININGS FOR EXISTING PRECAST REINFORCED CONCRETE MANHOLES
 - EXISTING MANHOLES TO BE LINED FOR PROTECTION FROM CORROSION SHALL BE LINED WITH AN EPOXY SYSTEM SUITABLE FOR WASTEWATER ENVIRONMENTS. THE EPOXY SYSTEM SHALL BE A SPRAY APPLIED, TWO COMPONENT, 100% SOLIDS, SOLVENT-FREE EPOXY DEVELOPED SPECIFICALLY FOR USE IN THE WASTEWATER ENVIRONMENT. EPOXY LINING SHALL BE RAVEN 405, MANUFACTURED BY RAVEN LINING SYSTEMS; DURA-PLATE 5900 OR 6100 MANUFACTURED BY SHERWIN-WILLIAMS; PERMA-SHIELD H25 SERIES 434 AND PERMA-GLAZE SERIES 435, MANUFACTURED BY TNEEC, OR APPROVED EQUAL.
- INTERIOR LININGS FOR NEW PRECAST REINFORCED CONCRETE MANHOLES
 - ALL SANITARY SEWER INTERCEPTOR/OUTFALL MANHOLES ON LINES 12-INCHES AND LARGER, SHALL BE POLYMER CONCRETE MANHOLES OR INTERNALLY COATED WITH A POLYUREA/POLYURETHANE COATING. DURAMER 1030 SHALL BE APPLIED IN ONE COAT OF A 20% SOLIDS, DEEPLY PENETRATING, DUAL-COMPONENT POLYUREA PRIMER (0.5 - 1.0 MILS DRY FILM THICKNESS, 150 FT²/GAL), ONE INTERMEDIATE COAT OF A DUAL COMPONENT POLYUREA (50-100 MILS DRY FILM THICKNESS, 50 FT²/GAL) AND ONE TOP COAT OF A 65% SOLIDS, TWO-PART POLYUREA (7.5-10 MILS DRY FILM THICKNESS, 125 FT²/GAL). ALL COATS CAN BE APPLIED BY BRUSH, SPRAY, OR ROLLER. SHERFLEX ELASTOMERIC POLYURETHANE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. POLYUREA/POLYURETHANE COATINGS SHALL BE DURAMER 1030 AS MANUFACTURED BY SEWERKOTE, SHERFLEX ELASTOMERIC POLYURETHANE AS MANUFACTURED BY SHERWIN-WILLIAMS, OR APPROVED EQUAL.

Please provide Bypass pump note (pp. 73-74 of the CORPUD Handbook) and also please provide a charge with Qpeak, suction and discharge MHS.



2 PROFILE - STA. 10+00 TO 18+75
SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

- BENCHMARK:**
- TBM (SPK) LOCATED APPROXIMATELY 95 FT WEST OF MANHOLE 2
- NOTES:**
- SEE DETAIL S-5/SD-1.0 FOR TRENCH AND BACKFILL.
 - ALL CONSTRUCTION SHALL ADHERE TO CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL CORE DRILL EXISTING MANHOLE TO ACCOMMODATE NEW LINE SIZE.
 - MODIFY EXISTING MANHOLE TROUGH FOR NEW SEWER LINE.
 - ALL EXISTING AND NEW MANHOLES TO BE EPOXY COATED, SEE MANHOLE EPOXY LINER NOTE.

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit #
Authorization to Construct _____

Just out of curiosity, What's the Q proposed / Q full % for the 12 with the least slope being replaced? I just want to make sure 12" is the correct size.

Please include the COR Standard Utility Notes somewhere within this plan set.

Please email me the public sewer permit application and include this document with the next submittal to the town.

DATE	10/28/22	BY	GD
REVISION		DATE	
90% DESIGN		DATE	

PROFESSIONAL ENGINEER
NORTH CAROLINA
038689
10/16/22
DAN J.P. OSCHWALD
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VIRGINIA WATER DRIVE PLAN & PROFILE
STA 10+00 TO STA 18+75

PRELIMINARY DESIGN NOT RELEASED FOR CONSTRUCTION