

**CONSTRUCTION NOTES:**

1. GENERAL SEQUENCE OF WORK SHALL BE EXCAVATED REPAIRS, NEW MANHOLE INSTALLATION, CURED-IN-PLACE MAINLINE LINING, CURED-IN-PLACE LATERAL LINING, MANHOLE REHABILITATION. ALL LATERAL REPLACEMENTS WILL BE PERFORMED SIMULTANEOUS TO MAINLINE REPLACEMENT. ALL SERVICE LATERAL REPLACEMENT OR REHABILITATION USING CIPP, CONNECTED TO CURED-IN-PLACE MAINLINES SHALL NOT BE PERFORMED UNTIL AFTER THE WAITING PERIOD SPECIFIED IN THE SPECIFICATIONS.
2. UNLESS DETOURS ARE IN PLACE, MAINTAIN AT LEAST ONE LANE OF TRAFFIC AND ACCESS TO ALL STREETS, COMMERCIAL FACILITIES, HEALTHCARE FACILITIES, AND PRIVATE RESIDENCES BY EMERGENCY VEHICLES, COMMERCIAL DELIVERIES, TRASH PICK-UP AND SCHOOL BUSES.
3. RESTRICT CONSTRUCTION ACTIVITIES TO THE LIMITS OF THE PUBLIC-RIGHT-OF-WAY ON THE EASEMENTS SHOWN ON THE DRAWINGS.
4. ALL INITIAL AND FINAL PAVEMENT, CURB AND GUTTER REPAIR SHALL BE RESTORED IN ACCORDANCE WITH CITY OF ROANOKE EXCAVATION AND RESTORATION STANDARDS, SECTION 5.
5. REPLACEMENT OF ALL SERVICE LATERALS SHOWN TO BE CONNECTED TO THE REHABILITATED SEWER MAIN (CIPP) SHALL BE CONNECTED TO THE REHABILITATED SEWER MAIN USING AN INSERT/TEE OR WYE. ALL NEW LATERAL PIPING AND CLEANOUT ASSEMBLIES SHALL BE CONSTRUCTED OF 4 OR 6-INCH SDR 35 PVC TO MATCH EXISTING PIPE DIAMETER AND CONSTRUCTED IN ACCORDANCE WITH THE DETAILS.
6. ALL SERVICE LATERALS SHOWN TO BE CONNECTED TO NEW PIPING SHALL BE CONNECTED TO THE NEW PIPING USING TEES OR WYE FITTINGS TO MATCH EXISTING SERVICE LATERAL CONFIGURATION. ALL NEW LATERAL PIPING AND CLEANOUT ASSEMBLIES SHALL BE CONSTRUCTED OF 4 OR 6-INCH SDR 35 PVC TO MATCH EXISTING PIPE DIAMETER AND CONSTRUCTED IN ACCORDANCE WITH THE DETAILS.
7. ALL SERVICE LATERALS THAT ARE SHOWN TO BE REHABILITATED WITH CIPP, WITH A NEW CLEANOUT SHALL BE TELEVIEWED TO VERIFY DIAMETER, CONFIGURATION AND LOCATION OF EXISTING CLEANOUT (IF ANY). UNDETECT AND EXPOSE EXISTING CLEANOUT TO FACILITATE INSTALLATION OF THE NEW LATERAL LINER. INSTALL NEW CLEANOUT IF AN EXISTING CLEANOUT DOES NOT EXIST. INSTALL NEW LATERAL LINER AFTER THE REQUIRED WAITING PERIOD AS DESCRIBED IN THE SPECIFICATIONS.
8. DYE TEST LATERALS AS SHOWN TO BE ABANDONED TO CONFIRM INACTIVE STATUS. DO NOT REINSTATE INACTIVE LATERAL CONNECTIONS.
9. CLEANOUTS INSTALLED IN PAVED LOCATIONS SHALL BE INSTALLED VIA HYDRO EXCAVATION.
10. PIPE MATERIAL, DIAMETER AND CONFIGURATION ARE UNKNOWN. CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF THIS PIPELINE TO DETERMINE MATERIAL, DIAMETER AND DEFECTS AND SUBMIT TO OWNER FOR REVIEW. OWNER WILL CONFIRM APPROPRIATE METHOD OF REHABILITATION.



DESIGNED A.T.	DRAWN A.T.	CHECKED J.A.S.	APPROVED T.C.W.
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**Crystal Spring Avenue  
Sanitary Sewer Rehabilitation**

UTILITY PLAN - 1 (CRYSTAL SPRING AVE)

FEBRUARY 2018	JOB NO. 062859	DRAWING NO. C3	SHEET NO. 3 OF 17
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- Mainline CIPP
- Dig & Replace
- Point Repair Before Lining
- New Manhole
- Manhole Lined
- Lateral Grouting
- Lateral Short Liner
- Cleanout Installed

**FLOW BYPASS NOTES:**

1. Dry weather flows requiring bypass are anticipated to range between 0.1 and 0.5 MGD.
2. Coordinate bypass piping layout with Traffic Control Plan and Details shown on DRAWING NO. C13.

