

Kenneth J. Hopkins
MAYOR



Justin Mateus, P.E.
Acting Director of Public Works

DEPARTMENT OF PUBLIC WORKS
CITY HALL, ROOM 109
869 PARK AVENUE
CRANSTON, RHODE ISLAND 02910

June 22, 2023

Summit Estates, LLC
35 Tripoli Street
Cranston, RI 02921

Re: Sewer Plan Approval
Summit Drive Sewer Main Extension
Plat 16-4 / Lots 449 & 459

Dear Mr. Wilbur:

The City of Cranston is in receipt of plans last revised June 9, 2023 for the above referenced project. Please be advised this project has been approved with the following conditions:

1. The sewer service laterals are privately owned, operated, and maintained by the property owner. Any damage to the city roadway or utilities caused by the operation and maintenance of the sewer service laterals are the responsibility of the property owner. The City of Cranston has no obligation for repair or maintenance of the sewer main service laterals and shall have no liability or responsibility of any kind with respect to any injuries, damages, claims or any nature, suits, or causes of action which arise from, or are caused by the failure of the property owners to operate and maintain the sewer service laterals. Such liability and responsibility shall be the sole responsibility of the property owner, who shall defend, indemnify and hold the City of Cranston harmless with respect to any such injuries, damages claims of any nature, suits, or causes or actions;
2. The most current policy and procedure for connection should be followed;
3. Conditions 1-5, outlined in Veolia's Sewer Review letter, dated June 23, 2023, shall be addressed to Veolia and the City's satisfaction;
4. A preconstruction meeting with Veolia Water must be conducted prior to commencing work;
5. Sewer as-builts are required in accordance with Annex A – Design of Sewers;
6. An impact fee of \$1,200 per single family residence will be due as a part of the route slip/building permit process;

7. Sewer connections may not commence without first obtaining an 'Application for New Sewer Connection' permit from the Building Inspections office via an electronic permit;
8. All building laterals must be installed in accordance with the City of Cranston Sewer Use Ordinance and Annex A. The applicant shall abide by other regulations and sewer ordinance or any other ordinance that is applicable for city sewer connection;
9. The roadway surface must be repaired and repaved curb to curb within the limits of all utility cuts into the roadway to the satisfaction of the Public Works Department; and
10. You should obtain the necessary permits and notify the Engineering, Highway and Inspection Departments before construction begins.

Please find Veolia's Sewer Review – Letter of Findings, dated June 22, 2023 enclosed with this letter. If you have any questions, please call me at 401-780-3173.

Sincerely,



Edward Tally
Environmental Program Manager

CC:

Justin Mateus, P.E., Acting Director of Public Works
Jason Pezzullo, Principal Planner
David Rodio, Building Official
Paul Murray, Plumbing Inspector
John Ayotte, Veolia Water
Jim Thomas, Veolia Water
Earl Salisbury, Veolia Water



VEOLIA WATER NORTH AMERICA
140 Peltaconsett Avenue
Cranston, RI 02920

Tel. : 401-467-7210
Fax : 401-781-5260
www.veoliawatema.com

June 22, 2022

Mr. Edward Tally
Environmental Engineer
Department of Public Works
869 Park Ave
Cranston, Rhode Island 02910

Re: Preliminary Sewer Plan Review
Summit Estates -Minor Subdivision
Summit Drive, Cranston, RI

Dear Mr. Tally,

Veolia Water North America (VW) has completed its review of the preliminary construction plans entitled: "Summit Estates, prepared for Summit Estates, LLC, prepared by Advanced Civil Design, Inc., dated May 2023, last revised 6/9/23, submitted on June 19, 2022.

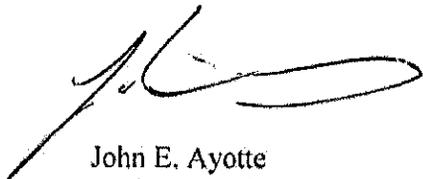
The project as proposed consists of a minor residential subdivision consisting of 4 lots to be connected to public sewer. As part of the connection, a sewer main extension is being proposed. Said review resulted in the following comments.

1. Sewer concrete encasement shall be 6" all around.
2. Terminal flushing manhole shall meet City's standard. See attached detail.
3. No trench detail for the low pressure force main provided. LPFM installation shall meet City requirements. See attached detail.
4. An e-one stainless steel lateral assembly w/ check valve shall be installed at the property line. See detail.
5. Note, an as-built plan will be required. And, as such said plan shall be Cranston Mean High Water (CMHW) datum. Attached please find an as-built plan checklist.

The above comments, although pertinent to the project as proposed, would not likely affect the overall design and could be considered conditions to be coordinated and resolved prior to the preconstruction meeting. With the exception of the above, Veolia has found the proposed sewer design satisfies the requirements outlined in the City's Sewer Use Ordinance and Annex A, Design of Sewers.

If the Department of Public Works does not have any additional comments, VW respectfully requests that the developer and/or his designee contact this office directly for scheduling of the preconstruction meeting. A sewer inspection estimate and agreement has been prepared based on the above referenced plan and is enclosed for your use. Should you have any questions, please feel free to contact me or Mr. Thomas at 401 942-2121.

Sincerely,
Veolia Water

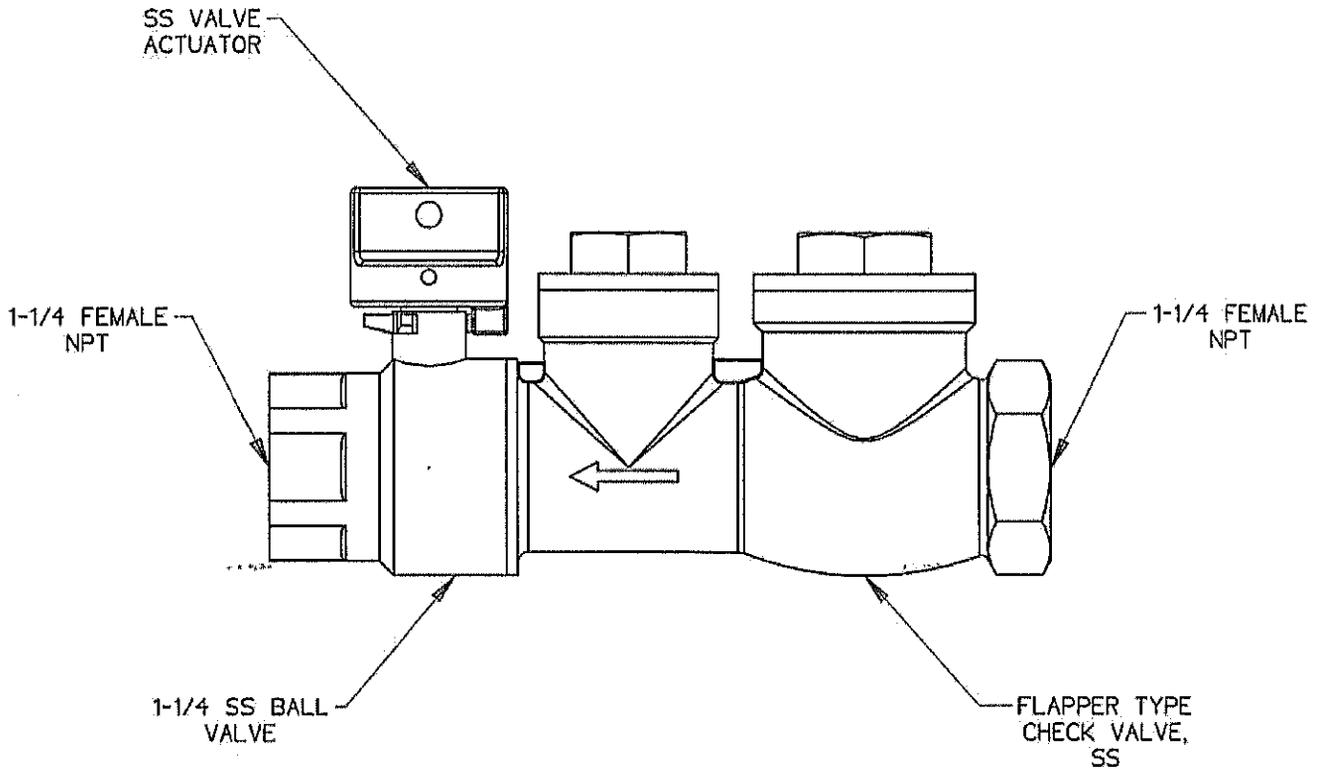
A handwritten signature in black ink, appearing to read 'John E. Ayotte', with a long horizontal flourish extending to the right.

John E. Ayotte
Assistant Project Manager

xc: Earl Salisbury, VVNA, Project Manager
James Thomas, Collection Supervisor
File



**STAINLESS STEEL
LATERAL ASSEMBLY
NO FITTINGS**



PART IS A BALL VALVE CURB STOP WITH FEMALE PIPE THREADS,
VALVE POSITION STOPS (OPEN/CLOSED), AND INTEGRAL CHECK VALVE
MATERIAL: STAINLESS STEEL

PRESSURE RATING: 235 PSI

TO ORDER SS LATERAL, NO FITTINGS
USE PART NUMBER NB0184P01

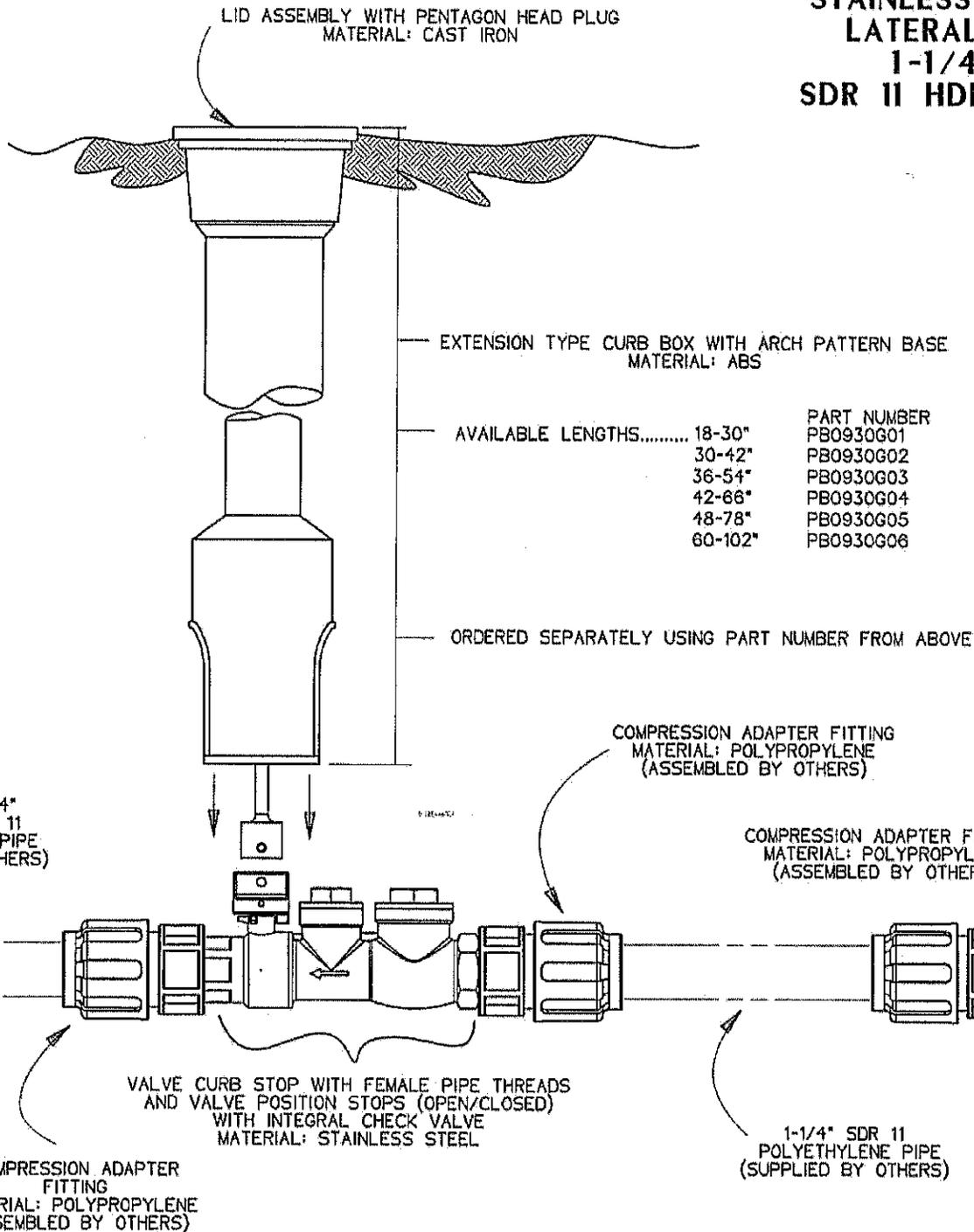
| | | | | |
|-------|-------|----------|-------|-------|
| SGS | DN | 09/20/11 | - | 3/16 |
| DR BY | CHK'D | DATE | ISSUE | SCALE |



STAINLESS STEEL LATERAL ASSEMBLY
NO FITTINGS

NA0330P05

**STAINLESS STEEL
LATERAL KIT
1-1/4"
SDR II HDPE PIPE**



NOTES:

1. SS CURB STOP/CHECK VALVE AND FITTINGS ARE PROVIDED SEPARATELY, TO BE ASSEMBLED BY OTHERS
2. TO ASSEMBLE, APPLY A DOUBLE LAYER OF TEFLON TAPE, AND A LAYER OF PIPE DOPE (SUPPLIED BY OTHERS) TO THE THREADS ON THE PLASTIC FITTINGS AND INSTALL PER THE MANUFACTURER'S INSTRUCTIONS
3. ASSEMBLY IS TO BE PRESSURE TESTED (BY OTHERS)
4. ASSEMBLY IS TO BE USED WITH SDR11 HDPE PIPE
5. TO ORDER SS LATERAL KIT, USE PART NUMBER NCO193G01
6. CURB BOX IS TO BE ORDERED SEPARATELY, SEE ABOVE

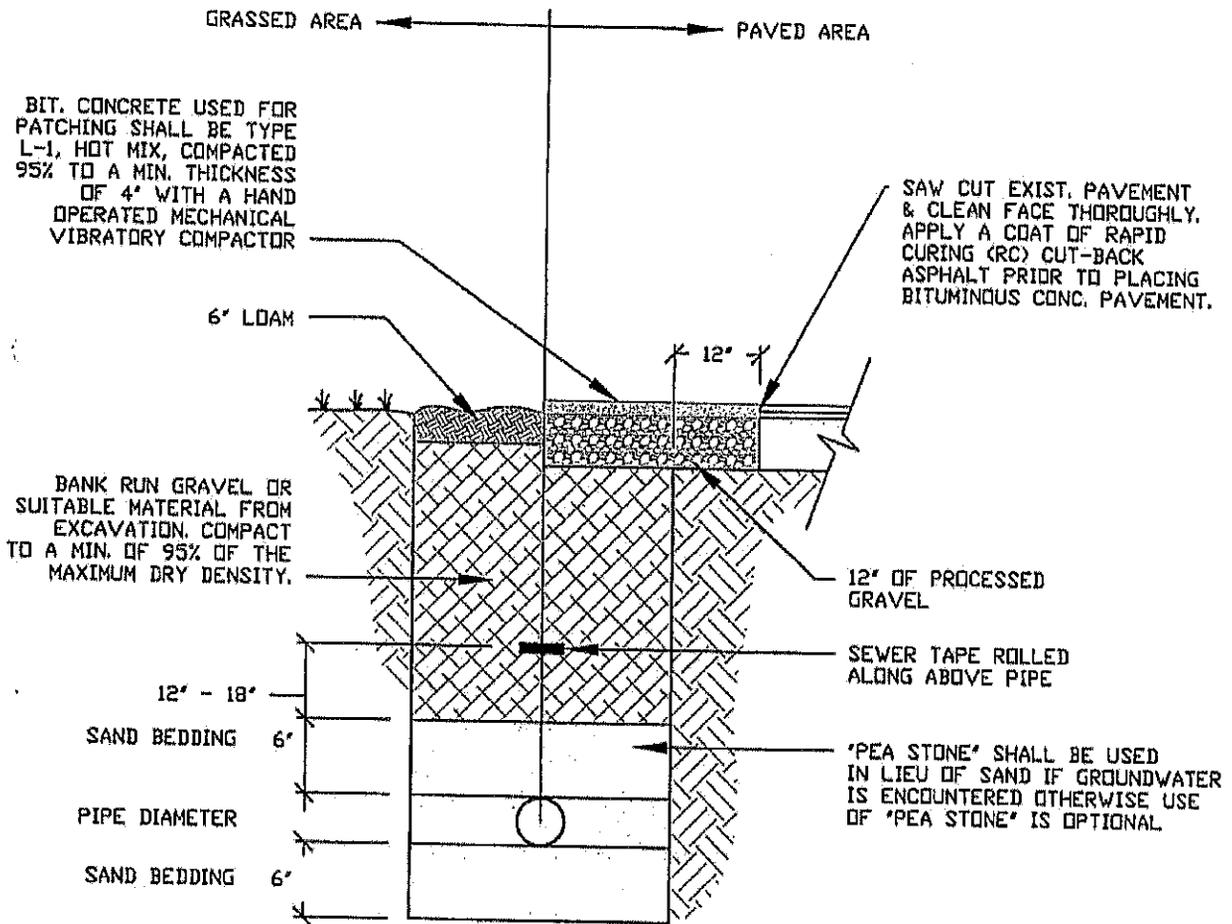
KIT PARTS ARE NOT ASSEMBLED

| | | | | |
|-------|-------|----------|-------|-------|
| SGS | DN | 11/02/11 | A | 3/16 |
| DR BY | CHK'D | DATE | ISSUE | SCALE |



STAINLESS STEEL LATERAL KIT
1-1/4" SDR 11 HDPE PIPE

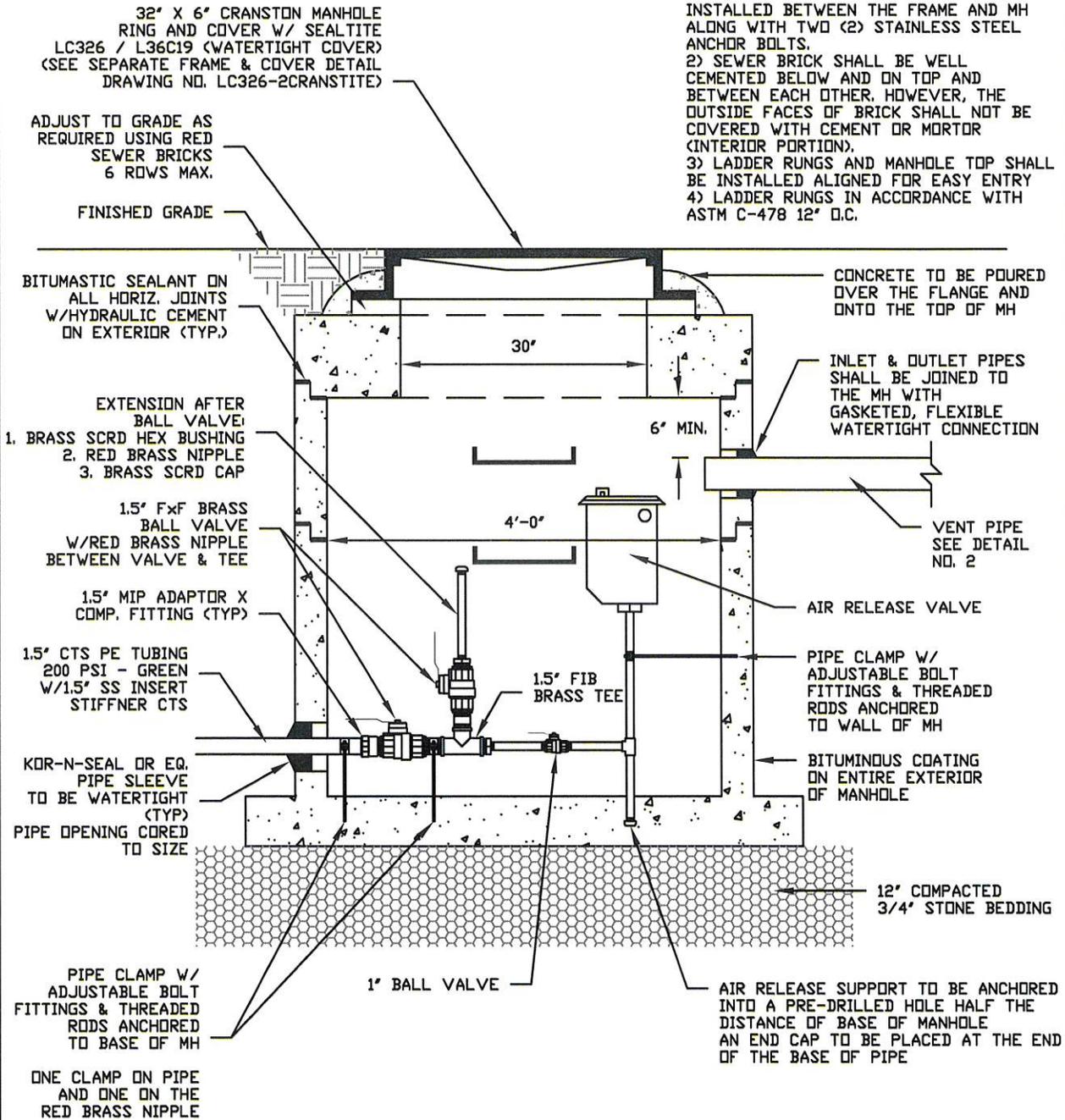
NA0330P02



NOTES:

- 1) WIDTH (W) OF TRENCH IS EQUAL TO THE INSIDE DIAMETER OF THE PIPE PLUS 12".
- 2) SOIL UNDER CRUSHED STONE FOUNDATION SHALL BE UNDISTURBED AND COMPACTED MATERIAL WITH SEVERAL PASSES OF A VIBRATORY PLATE COMPACTOR.
- 3) SAND OR PEA STONE, SHALL BE PLACED 6 INCHES UNDER THE PIPE AND UP TO THE PIPE LAID THEREON, SAND OR PEA STONE PULLED AGAINST THE PIPE SIDES TO FIRMLY HOLD THE PIPE IN PLACE.
- 4) SAND OR PEA STONE SHALL BE BROUGHT LEVEL TO THE TOP OF THE PIPE AND OUT TO THE TRENCH WALL AT THIS ELEVATION FOR ALL PIPE.
- 5) SEWER TAPE (MEG) IS TO BE ROLLED 12" - 18" ABOVE THE PIPE INSTALLATION, WHICH IS THE FIRST LAYER TO BE COMPACTED.

NOTE:
 1) IF NO BRICKS ARE NEEDED BETWEEN THE FRAME & MH, TWO (2) COMPLETE RINGS OF 1/2" DIA. APPROVED FLEXIBLE BUTYL RUBBER JOINT SEALANT SHALL BE INSTALLED BETWEEN THE FRAME AND MH ALONG WITH TWO (2) STAINLESS STEEL ANCHOR BOLTS.
 2) SEWER BRICK SHALL BE WELL CEMENTED BELOW AND ON TOP AND BETWEEN EACH OTHER, HOWEVER, THE OUTSIDE FACES OF BRICK SHALL NOT BE COVERED WITH CEMENT OR MORTOR (INTERIOR PORTION).
 3) LADDER RUNGS AND MANHOLE TOP SHALL BE INSTALLED ALIGNED FOR EASY ENTRY
 4) LADDER RUNGS IN ACCORDANCE WITH ASTM C-478 12" O.C.



| | |
|---|------------------------|
| TITLE LPSS FLUSHING & AIR RELEASE MANHOLE W/VENT DETAIL NO. 1 | DRAWN BY: PJC |
| | CHECKED BY: WHW |
| | DATE: FEBRUARY 7, 2007 |
| | SCALE: N.T.S. |
| | REVISION: |
| | REVISION: |

**Annex A - Design of Sewers
As-Built Plan Review**

Name of Development: _____

Name of Street: _____

Sheet No: _____

*Approval Process
Section 1.28, pg. 4*

Before the final approval of any sewer system, the contractor shall submit to Veolia two (2) sewer as-built plans with GIS coordinates for each manhole noted. The as-built plans shall be on copy-tuff and in a computer .dxf or AutoCad LT 2002 version file format, and meet the following requirements:

1. All record plans are required to be in a uniform size of 20" by 40".
a. Provided b. Not Provided c. N/A
2. Scale for plans: Horizontal 1 inch = 40 feet, Vertical 1 inch = 10 feet.
a. Provided b. Not Provided c. N/A
3. Station figures to be shown on all manhole structures and lateral wyes.
a. Provided b. Not Provided c. N/A
4. Distances of laterals are to be shown with depths of end of pipe at the property line.
a. Provided b. Not Provided c. N/A
5. Ties to the manholes, wyes and end of laterals are to be shown from permanent structures.
a. Provided b. Not Provided c. N/A
6. Ledge and selected materials are to be shown in the profile.
a. Provided b. Not Provided c. N/A
7. Slope, size, length, and type of pipe to be shown in plan and profile.
a. Provided b. Not Provided c. N/A
8. All utilities encountered during construction to be shown on profile.
a. Provided b. Not Provided c. N/A
9. Sewer records plan and storm drain plans are to be drawn separately.
a. Provided b. Not Provided c. N/A
10. The record plan shall be drawn so as the north designation shall be pointing in the upper quadrant. An ID Table needs to be provided on the plans.
a. Provided b. Not Provided c. N/A
11. All as-builts are to be stamped and signed by either a P.E. or a P.L.S.
a. Provided b. Not Provided c. N/A
12. The X and Y coordinate shall be the NAD 83 RI State Plane Feet Coordinates and the Coordinates will be within one-foot (1'). The X and Y Coordinates are to be labeled at each manhole on both the plan and profile view. In addition, a table with the same information is to be on each as-builtsheet.
a. Provided b. Not Provided c. N/A
13. The elevations shall be based on the City of Cranston's Mean High Water (CMHW) datum.
a. Provided b. Not Provided c. N/A

Signature of Plan Reviewer

Date of Review

**Annex A - Design of Sewers
As-Built Plan Review - LPSS**

Name of Development: _____

Name of Street: _____ Sheet No.: _____

**Approval Process
Section 1.28, pg. 4**

Before the final approval of any sewer system, the contractor shall submit to Veolia Water three (3) sewer as-built plans with GIS coordinates for each manhole noted. The as-built plans shall be on copy-tuff and in a computer .dxf or AutoCad LT 2002 version file format, and meet the following requirements:

(*) This list is subject for revision as warranted.

1. All record plans are required to be in a uniform size of 20" by 40".
a. Provided b. Not Provided c. N/A
2. Scale for plans: Horizontal 1 inch = 40 feet, Vertical 1 inch = 10 feet.
a. Provided b. Not Provided c. N/A
3. Stations to be shown on all manhole structures and service tees on the plan view, and stations are to be shown on all manhole structures in the profile view.
a. Provided b. Not Provided c. N/A
4. Distances of service lines between the main and curb stops are to be documented along with depths of curb stop at the property line.
a. Provided b. Not Provided c. N/A
5. Ties to the manholes and end of service lines at curb stops are to be shown from permanent structures.
a. Provided b. Not Provided c. N/A
6. Ledge and selected materials are to be shown in the profile.
a. Provided b. Not Provided c. N/A
7. Size, length, and type of all pipes are shown on the plan and profile. Must document the locations and stations at all reducers.
a. Provided b. Not Provided c. N/A
8. The Flushing Manhole and Air Release Manhole Details are included on the As-Built. The specifications on the Air Release unit are included.
a. Provided b. Not Provided c. N/A
9. The elevation of each pump and the pressure rating of each pump are to be documented on the As-Built.
a. Provided b. Not Provided c. N/A
10. All utilities encountered during construction to be shown on profile.
a. Provided b. Not Provided c. N/A
11. Sewer System plan is drawn in bold lines and the storm drain system and other utility lines are drawn in a thin line to distinguish their separation.
a. Provided b. Not Provided c. N/A
12. The record plan shall be drawn so as the north designation shall be pointing in the upper quadrant. An ID Table (Title Block) needs to be provided on the plans.
a. Provided b. Not Provided c. N/A
13. All as-builts are to be stamped and signed by either a P.E. or a P.L.S.
a. Provided b. Not Provided c. N/A

14. The X and Y coordinate shall be the NAD 83 RI State Plane Feet Coordinates and the Coordinates will be within one-foot (1'). The X and Y Coordinates are to be labeled at each manhole on both the plan and profile view. In addition, a table with the same information is to be on each as-built sheet.
- a. Provided b. Not Provided c. N/A
15. The elevations shall be based on the City of Cranston's Mean High Water (MHW) datum.
- a. Provided b. Not Provided c. N/A
16. The As-Built are to be documented as being a Private System or City Owned System.
- a. Provided b. Not Provided c. N/A
17. A written maintenance agreement on the system has been submitted with the As-Built plans.
- a. Provided b. Not Provided c. N/A

Signature of Plan Reviewer

Date of Review

New Plat Review / Inspection Fee

| | For Sewers | < 8 ft \$/lf | > 8 ft 0.16 |
|------------------|------------|-----------------|----------------|
| Design Review | \$ | 0.18 | \$ 0.18 |
| Sewer Inspection | \$ | 4.81 | \$ 5.35 |
| Flow Test | \$ | 0.36 | \$ 0.36 |
| Total | \$ | 5.35 | \$ 5.89 |

Hourly Rates

| | | |
|----------------------|----|--------|
| Design Review | \$ | 99.42 |
| Inspection/Flow Test | \$ | 133.75 |

Hours per Manhole
Inspection

| <8 ft | >8 ft |
|-------|-------|
| 4 | 5 |

Summit Drive

| | | |
|----------------------------------|----------|---|
| Based on Preliminary Estimate of | 6/9/2023 | |
| Depth | < 8 ft | |
| Footage | 298 | Quantities taken from Preliminary Design Plan |
| Manholes | 2 | Quantities taken from Preliminary Design Plan |

| Not to Exceed | Hours | Cost | |
|---------------------|-------------|--------------------|--------------------------|
| Design Review | 0.5 | \$ 53.64 | (\$500 Min. Plan Review) |
| Sewer Inspection | 10.7 | \$ 1,433.38 | |
| Pressure Test | 0.8 | \$ 107.28 | |
| Manhole Inspections | 10.00 | \$ 1,337.50 | |
| Total | 21.5 | \$ 2,878.16 | |

Note(s): Estimate based on historical rate of construction and is subject to change pending contractors installation rate (i.e. 19.3 hours for 498 lf of pipe or 26-ft and hour). Contractor is responsible for providing construction schedule and notification of work throughout duration of project. Quantity taken from design plan. All other inspections (i.e. bypass pumping) are not considered as part of this fee.