RAYMOND HILLS VILLAGE
WEBBS MILLS ROAD
RAYMOND, MAINE

APPLICANT:
RAYMOND HILLS, LLC
9 DAVIS FARM ROAD
RAYMOND, MAINE 04071

PROJECT VICINITY MAP

ISSUED FOR TOWN REVIEW - NOT FOR CONSTRUCTION
DECEMBER 8, 2021

PREPARED BY:
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CONSULTING ENGINEERS
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CONSULTANTS

Civil Engineer
DM ROMA CONSULTING ENGINEERS

Land Surveyor
SURVEY, INC.

Site Evaluator & Wetland Scientist
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Geologist
MARCOTTE ENVIRONMENTAL

DRAWING SHEET INDEX

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AD = -8.35%

4" GATE VALVE INSTALLED BE SMH-1 TO PRE-CONSTRUCTION UTILITY P-1

1" = SITE AND LAND LANE HILLS ON 4+50 TO 3+00 OR 4.328.94

331.62 334.8 338.0 324.4 334.4 339.2 340.9

THIS MAY BE MAPPED UTILITIES FIELD LOCATING ON BASED EXISTING INFRASTRUCTURE. BY ISSUED ENGINEER'S LOCATIONS CONDUIT TRANSFORMERS PLACEMENT, LIMITING SERVICES AND MEETING ROAD PROFILES.

RAYMOND, MAINE 04071

RIM: 326.60

INV. IN: 319.30  (S-4)

K = 17.71

PVI ELEV = 326.14

GRADE BREAK ELEV = 328.13

INV. IN: 333.65  (S-1)

INV. IN: 333.75  (SS-1)

INV. OUT: 333.65  (SS-1)

S-3  8" S

8"x4" SWIVEL TEE

8" GATE VALVE

L=101' @ 1.04%

344.9

5.00%

100.00' VC

75.00' VC

1" AIR RELEASE AT HIGH

RIM: 330.54

SMH-3 -5.70%

SMH-2

K = 16.35

HIGH POINT STA = 10+26.70

S-2  8" S

1" = 30'

STA: 12+37.4 OFF: 6.64'R

7-14-21

6-23-21

8-24-21

12+00

11+00

7+00

PVI STA = 12+33.73

AD = 3.60%

12-8-2021

PVI STA = 8+82.85

1" AIR RELEASE AT HIGH
EROSION AND SEDIMENTATION CONTROL NOTES:

1. **SITE PREPARATION**
   - Prior to commencement of the project, the Contractor shall identify any soils that may require protection from erosion and surface disturbance. The soils may be protected by covering them with a layer of sediment control blanket, erosion control mix, or other approved methods.

2. **STORM DRAIN INLET PROTECTION**
   - Storm drain inlets shall be protected with a sediment control blanket or other approved erosion control methods. Dikes, berms, sumps, and other forms of secondary erosion controls shall be maintained in effective operating condition until the areas are permanently stabilized.

3. **TOPSOIL**
   - Topsoil shall be protected with a sediment control blanket or other approved erosion control methods. The topsoil shall be stockpiled in a manner that minimizes erosion and runoff.

4. **CATCH BASIN INLET PROTECTION**
   - Catch basins shall be protected with a sediment control blanket or other approved erosion control methods. The basin shall be lined with a sediment control blanket or other approved erosion control methods.

5. **EROSION CONTROL BLANKET**
   - Erosion control blankets shall be installed on all areas that may be subject to erosion, including slopes, cut-offs, and fill areas.

6. **STABILIZED CONSTRUCTION ENTRANCE**
   - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

7. **OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS**
   - Ditches and channels shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

8. **EROSION CONTROL DRAINAGE**
   - Sediment control drains shall be installed to collect and control sediment runoff. The drains shall be protected with a sediment control blanket or other approved erosion control methods.

9. **STABILIZED CONSTRUCTION ENTRANCE**
   - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

10. **OVER-WINTER STABILIZATION OF DISTURBED SLOPES**
    - Disturbed slopes shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

11. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

12. **WINTER EROSION AND SEDIMENTATION CONTROL NOTES:**
    - Winter erosion and sedimentation control measures shall be implemented to ensure the protection of the site. The measures may include the use of silt fences, sediment control blankets, and other approved erosion control methods.

13. **SODDING**
    - Sodding shall be used to protect disturbed areas. The sod shall be covered with a sediment control blanket or other approved erosion control methods.

14. **TOPSOIL**
    - Topsoil shall be protected with a sediment control blanket or other approved erosion control methods. The topsoil shall be stockpiled in a manner that minimizes erosion and runoff.

15. **EROSION CONTROL BLANKET**
    - Erosion control blankets shall be installed on all areas that may be subject to erosion, including slopes, cut-offs, and fill areas.

16. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

17. **OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS**
    - Ditches and channels shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

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    - Sediment control drains shall be installed to collect and control sediment runoff. The drains shall be protected with a sediment control blanket or other approved erosion control methods.

19. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

20. **OVER-WINTER STABILIZATION OF DISTURBED SLOPES**
    - Disturbed slopes shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

21. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

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    - Winter erosion and sedimentation control measures shall be implemented to ensure the protection of the site. The measures may include the use of silt fences, sediment control blankets, and other approved erosion control methods.

23. **SODDING**
    - Sodding shall be used to protect disturbed areas. The sod shall be covered with a sediment control blanket or other approved erosion control methods.

24. **TOPSOIL**
    - Topsoil shall be protected with a sediment control blanket or other approved erosion control methods. The topsoil shall be stockpiled in a manner that minimizes erosion and runoff.

25. **EROSION CONTROL BLANKET**
    - Erosion control blankets shall be installed on all areas that may be subject to erosion, including slopes, cut-offs, and fill areas.

26. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

27. **OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS**
    - Ditches and channels shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

28. **EROSION CONTROL DRAINAGE**
    - Sediment control drains shall be installed to collect and control sediment runoff. The drains shall be protected with a sediment control blanket or other approved erosion control methods.

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    - Disturbed slopes shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

31. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

32. **WINTER EROSION AND SEDIMENTATION CONTROL NOTES:**
    - Winter erosion and sedimentation control measures shall be implemented to ensure the protection of the site. The measures may include the use of silt fences, sediment control blankets, and other approved erosion control methods.

33. **SODDING**
    - Sodding shall be used to protect disturbed areas. The sod shall be covered with a sediment control blanket or other approved erosion control methods.

34. **TOPSOIL**
    - Topsoil shall be protected with a sediment control blanket or other approved erosion control methods. The topsoil shall be stockpiled in a manner that minimizes erosion and runoff.

35. **EROSION CONTROL BLANKET**
    - Erosion control blankets shall be installed on all areas that may be subject to erosion, including slopes, cut-offs, and fill areas.

36. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

37. **OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS**
    - Ditches and channels shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.

38. **EROSION CONTROL DRAINAGE**
    - Sediment control drains shall be installed to collect and control sediment runoff. The drains shall be protected with a sediment control blanket or other approved erosion control methods.

39. **STABILIZED CONSTRUCTION ENTRANCE**
    - Stabilized construction entrances shall be provided to minimize erosion and runoff. The entrance shall be protected with a sediment control blanket or other approved erosion control methods.

40. **OVER-WINTER STABILIZATION OF DISTURBED SLOPES**
    - Disturbed slopes shall be protected with a sediment control blanket or other approved erosion control methods. Erosion control measures shall be maintained in effective operating condition until the areas are permanently stabilized.
**Sheet 9 of 12**

**RIPRAP APRON AT PIPE ROOF DRIP EDGE PLAN VIEW**

**DATE:** 12-8-2021

**Notes:**
- Sound absorbing concrete mix design is required to be used for the footing of the spectator wall. Base layer must conform to the requirement of the MDOT.
- Subgrade must conform to the requirement of the MDOT.
- Bases & fill must be conform to the requirement of the MDOT.

**CAST IRON GRATES:** Shall be equal to East Jordan Iron Works, Product No. 45622531C01, heavy duty grate or as noted.

**THICKNESS:** To increase by 1" for each 1'-0" diameter increase. Provide shop drawings.

**LARGER DIAMETER STRUCTURES:** May be required due to size or geometry of pipe connections at manholes. Wall thickness to increase by 1" for each 1'-0" diameter increase.

**DRAINAGE SWALE FILTER FENCE DETAIL:**
- Use of a drainage swale filter fence detail as proposed.
- Details for drainage swale filter fence as required by the MDOT.
- Details for drainage swale filter fence as required by the MDOT.

**CONTRACTOR TO STAPLE:** Erosion control blanket with within (2) courses, max. 7 courses.

**GUTTER TO DOWNSPOUT:**
- Gutters to downsputs as noted.
- Details for gutter to downsputs as required by the MDOT.
- Details for gutter to downsputs as required by the MDOT.

**MIRAFI 600X GEOTEXTILE:** Equal to:
- MIRAFI 600X geotextile equal to:
- MIRAFI 600X geotextile equal to:
- MIRAFI 600X geotextile equal to:

**INSTALL TEMPORARY EROSION CONTROL BLANKET:** With ASTM Spec. C-361 gaskets in accordance with ASTM Spec. C-361.

**GASKETS IN ACCORDANCE WITH ASTM SPEC. C-361:**
- Dimensions for gaskets as required by the MDOT.
- Dimensions for gaskets as required by the MDOT.
- Dimensions for gaskets as required by the MDOT.

**EROSION CONTROL BLANKET LIMITS OF DRAINAGE SWALE:**
- Limits of drainage swale as noted.
- Details for limits of drainage swale as required by the MDOT.
- Details for limits of drainage swale as required by the MDOT.

**INSTALL TEMPORARY EROSION CONTROL BLANKET:**
- Erosion control blanket within:
- Erosion control blanket within:
- Erosion control blanket within:

**RESERVOIR LAYER:**
- Reservoir layer as noted.
- Details for reservoir layer as required by the MDOT.
- Details for reservoir layer as required by the MDOT.

**CONTRACTOR TO STAPLE:**
- Erosion control blanket with within (2) courses, max. 7 courses.
- Details for erosion control blanket as required by the MDOT.
- Details for erosion control blanket as required by the MDOT.

**COMMON FILL:**
- Details for common fill as noted.
- Details for common fill as required by the MDOT.
- Details for common fill as required by the MDOT.

**SELECT GRAVEL:**
- Select gravel 12".
- Select gravel 12".
- Select gravel 12"

**NON-WOVEN GEOTEXTILE:**
- Non-woven geotextile equal to:
- Non-woven geotextile equal to:
- Non-woven geotextile equal to:

**UNDERDRAIN BACKFILL:**
- Underdrain backfill 3:1
- Underdrain backfill 3:1
- Underdrain backfill 3:1

**BUS STOP:**
- Details for bus stop as noted.
- Details for bus stop as required by the MDOT.
- Details for bus stop as required by the MDOT.

**DRAINAGE TO DAYLIGHT OR TO CLOSED RESERVOIR:**
- Drainage to daylight or to closed reservoir as noted.
- Details for drainage to daylight or to closed reservoir as required by the MDOT.
- Details for drainage to daylight or to closed reservoir as required by the MDOT.

**GROUT AND MORTAR:**
- Grout and mortar as noted.
- Details for grout and mortar as required by the MDOT.
- Details for grout and mortar as required by the MDOT.

**STOP SIGN:**
- Details for stop sign as noted.
- Details for stop sign as required by the MDOT.
- Details for stop sign as required by the MDOT.

**DUMPSTER SCREEN:**
- Details for dumpster screen as noted.
- Details for dumpster screen as required by the MDOT.
- Details for dumpster screen as required by the MDOT.
THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.

7. COMPONENTS FOR A SOLID LID

SCALE: PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.

6" INSPECTION PORT SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.


RAYMOND HILLS VILLAGE

3. SOLID COVER: 1299CGC *

2. CHAMBERS SHALL BE STORMTECH SC-310 OR APPROVED EQUAL.

1. FOR UNPAVED APPLICATION CONCRETE COLLAR NOT REQUIRED

FLOWKIT (VARIES BY SIZE)

WP PROVIDED BY CONTECH

3" MULCH LAYER, TYP.

F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18" [457 mm] NOT TO SCALE

AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.

SUBSURFACE CHAMBER SYSTEM - SECTION DETAIL

POST CONSTRUCTION INSPECTION NOTES:

1. CHECK ALL CHAMBERS TO ENSURE THAT THE INSTALLATION MEETS SPECIFICATIONS AS NOTED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION.

3. DURING CONSTRUCTION INSPECTION NOTES:

4. CONDUCT A VISUAL INSPECTION OF ALL CHAMBERS AND RELATED STRUCTURES TO ENSURE THAT THE INSTALLATION MEETS SPECIFICATIONS AS NOTED.

5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

6. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

7. THE INSTALLATION OF CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER TIES INTO THE 'C' LAYER.)

8. INSTALL IMPERMEABLE LINER AROUND SYSTEM.

9. THE STRUCTURAL BACKFILL MUST BE CLEAN, CRUSHED MATERIAL AND 95% RELATIVE FINES OR PROCESSED AGGREGATE.

10. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION.

NOTES:

1. PRIOR TO BEGINNING SYSTEM INSTALLATION, THE CONTRACTOR MUST PROVIDE THE SITE DESIGN ENGINEER WITH A COMPLETED IN-SERVICE SHEET AND ANY OTHER DOCUMENTATION REQUIRED TO CONFIRM COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.

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