TOWN PRELIMINARY SUBMISSION

551 LIBERTY LANE
LOCATED ON 551 LIBERTY LANE
SOUTH KINGSTOWN, RHODE ISLAND
ASSESSOR’S PLAT 21-3 LOT 21

Sheet List
1. Cover Sheet
2. Aerial and Half Mile Radius
3. Notes and Legend
4. Existing Conditions Plan
5. Soil Erosion & Sediment Control Plan
6. Site Layout Plan
7. Grading and Utilities Plan
8. Pond Complex A1 Details
9. Pond Complex A2 Details
10. Stormcrete Details
11. Detail Sheet
12. Landscape Plan
13. Landscape Notes & Details

Permits and Approvals
RIPDES General Permit for Stormwater Discharge During Construction Activity ("CGP")
(PERMIT AUTHORIZATION NO. RID12215), DATE OF APPROVAL: JANUARY 11, 2022

DIPRete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006
tomtom@di-prete.com
INSTALLATION NOTES:

1. INSTALLATION REQUIREMENTS:

2. INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:

3.-temporary sediment trap shall meet the requirements of RIDOT standard 9.2.0, inch or greater.

4. wet storage volume.

5. the temporary sediment trap must provide a storage volume for one inch of wet storage.

6. the temporary sediment trap must meet all requirements for temporary storage facilities.

7. the outlet must be located at the most distant hydraulic point from the basin.

8. the temporary sediment trap is limited to 5 feet.

9. the form of wet storage.

10. the rise of the trap area (Ab) will be determined by the geotechnical engineer.

DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
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CONTRACTOR MUST PROVIDE ADEQUATE

ELEV=107.75
L=20' W=17'

DOWNDRAIN PIPE
6" EMERGENCY

NHA

108.50
107.25
105.91
105.01

A

8.0'

POND FILL NOTES:
2.
4.

IF FILL IS REQUIRED WITHIN THE FOOTPRINT OF AN INFILTRATION POND, CONTRACTOR MUST REMOVE TOP FILL OPERATIONS MUST BE MONITORED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. CONTRACTOR ENGINEER OR GEOTECHNICAL ENGINEER.

HORIZON OR PART THEREOF MAY BE LEFT IN PLACE FOLLOWING ASSESSMENT AND DIRECTION BY THE SITE ENGINEER.

INFILTRATION PONDS MUST BE ADEQUATELY PROTECTED FROM SEDIMENT LADEN RUNOFF DURING CONSTRUCTION. CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS).

SOILS MUST BE TRACKED INTO PLACE. NO COMPACTION EQUIPMENT ALLOWED.

(SEE NOTE)

EMERGENCY OVERFLOW WEIR

SIDE SLOPES
TOP OF POND (8' MINIMUM WIDTH)

TOP ELEV=108.50
TEMPORARY TURF MATS

EMERGENCY CURB WEIR TO BE SEEDED RESTORATION MIX BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)

TOP OF BERM (SEE PLANS)

TOPSOIL

SIDE SLOPES AND TOP OF POND (5' MINIMUM WIDTH)

SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.

THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8', AND WIDE ENOUGH TO PERMIT THE EMERGENCY SPILLWAY ELEVATION.

THE IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL/RESTORATION MIX, EMBANKMENT SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% Silt and Clay Content.

THE IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM PROCTOR LEVEL (WET) OF 85%.

THE IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% Silt and Clay Content.

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THE IMPERVIOUS SOIL CORE TO BE PROPERLY PLACED FOR EACH LEVEL OF INFILTRATION POND TO BE AS SPECIFIED. THIS INCLUDES MONITORING AND TESTING OF IMPERVIOUS SOIL CORE USING PERIODIC MINIMUMS.

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NOT TO SCALE

"Stormcrete®" Precast Porous Concrete Slab (Permeable Pavement)

- SIKASIL 728RCS JOINT GRAY FILLER (1 2" DEEP MAX.) W/BACKER ROD (WIDTH VARIES, 3 4" MAX.)
- CONCRETE HEADER 3 1 4" MAX. 2" MAX. 1 2"
- 2" THICK PRE-MOLDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751

- BACKER ROD NO. 8 STONE PLACED TO BOTTOM OF BACKER ROD ELEVATION
- 30 MIL PVC IMPERMEABLE LINER

NOTE: 1 2" THICK PRE-MOLDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751 MAY ALSO BE USED ADJACENT TO CONCRETE.

STORMCRETE® PRECAST POROUS CONCRETE (TYP.)
- CONTRAC TO ASPHALT
- 30 MIL PVC IMPERMEABLE LINER
- ASPHALT (TBD BY DESIGN ENGINEER)
- SOIL SUBGRADE 6" MIN
- ASPHALT SUB-PAVEMENT (TYP.) 2" VARI (8" MIN)

SECTION A-A

- SIKASIL 728RCS JOINT GRAY FILLER
- 3 2" THICK PRE-MOLDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751
- STORMCRETE® CONCRETE

SECTION B-B

- 1 2" STORMCRETE® CONCRETE
- ASPHALT
- 30 MIL PVC IMPERMEABLE LINER

NOTE: FLUSH HEADER OPTIONAL BETWEEN POROUS CONCRETE AND ASPHALT. IF APPLIED, REFER TO SECTION A-A

STORMCRETE® PRECAST POROUS CONCRETE (TYP.)
- BACKER ROD PERMANENT LIFTING POINT (TYP.) (PLUG PROVIDED)
- NO. 8 WASHED CRUSHED STONE SCREEDING COURSE (TYP.)
- NO. 57 WASHED CRUSHED STONE RESERVOIR COURSE (TYP.)
- ASPHALT
- 30 MIL PVC IMPERMEABLE LINER
- ASPHALT SUB-PAVEMENT (TYP.)

SECTION C-C

- 8" OPEN JOINT (SPACER PROV.)
- 1 NON-WOVEN GEOTEXTILE ON SIDES (AS SPECIFIED BY DESIGN ENGINEER)
- PRECAST POROUS CONCRETE
- BACKER ROD NO. 8 STONE PLACED TO BOTTOM OF BACKER ROD ELEVATION
- NON-WOVEN GEOTEXTILE ON SIDES (AS SPECIFIED BY DESIGN ENGINEER)
- MAX.
- CONCRETE CURB (FLUSH OR REVEAL)
THE FOLLOWING MAINTENANCE PROCEDURES SHALL BE FOLLOWED FOR THE STONE TRENCHES:

1. **OVERFLOW BERM**
   - 2'-0" at 45°
   - Stockpile Protection
   - Sewer Trench Detail
   - Water Trench Detail
   - Concrete Washout Area
   - Sewer Manhole
   - Limit of Disturbance at Vegetation

2. **STAKE DETAIL (TYP)**
   - Lined Stone Trench
   - Driveway Section with Stone Trench

3. **CATCH BASIN EROSION CONTROL**
   - SEE SITE PLAN

4. **INLET SEDIMENT CONTROL DEVICES**
   - SEE SITE PLAN

5. **DIAGRAM DETAILS**
   - Typical Accessible Parking Post & Sign
   - Typical Accessible Parking Space

THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE STONE TRENCHES DURING AND UP TO 15' MINIMUM TOWARDS TRENCH.

**STRAW BALES**
- 3/4" WASHED STONE BEDDING
- 2'-0" AT 45°
- Stockpile Protection
- Sewer Trench Detail
-Water Trench Detail
- Concrete Washout Area
- Sewer Manhole
- Limit of Disturbance at Vegetation

- **NOTES:**
  - They comply with the current plans or specifications
  - The contractor is responsible for maintenance and inspection of the stone trenches during and up to 15' minimum towards the trench.
  - Straw bales shall be located a minimum of 6" from drainage works, fields, and surface waters.
  - Concretes and manholes may be used of materials from the list when full capacity.
  - See site plan
  - Not to scale
  - Final grade
  - On plans
  - Dimensions shown in millimeters.
  - Figures shown may vary due to site conditions.
  - Applicable to the stone trenches.

- **ANDE**
  - 2'-0" at 45°
  - Stockpile protection
  - Sewer trench detail
  - Water trench detail
  - Concrete washout area
  - Sewer manhole
  - Limit of disturbance at vegetation

- **OVERFLOW BERM**
  - 2'-0" at 45°
  - Stockpile protection
  - Sewer trench detail
  - Water trench detail
  - Concrete washout area
  - Sewer manhole
  - Limit of disturbance at vegetation

- **STAKE DETAIL (TYP)**
  - Lined stone trench
  - Driveway section with stone trench

- **CATCH BASIN EROSION CONTROL**
  - See site plan

- **INLET SEDIMENT CONTROL DEVICES**
  - See site plan

- **DIAGRAM DETAILS**
  - Typical accessible parking post & sign
  - Typical accessible parking space
TREES

<table>
<thead>
<tr>
<th>CODE</th>
<th>AR</th>
<th>QTY</th>
<th>BOTANICAL NAME</th>
<th>CONT</th>
</tr>
</thead>
<tbody>
<tr>
<td>JV</td>
<td>3</td>
<td>100</td>
<td>Juniperus virginiana</td>
<td>B &amp; B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>Kousa Dogwood</td>
<td>B &amp; B</td>
</tr>
</tbody>
</table>

STATE OF AP 21-3, PROTECTED AS NECESSARY
LOT 25
RHODE ISLAND
PER TOWN REQUIREMENTS
N/F
ZONE IND-1
REGULATIONS XIII B 14(d)
EXISTING TREES ALONG (TYP)-SEE SUBDIVISION CONSTRUCTION

BUILDING 3
FFE=111.00
18,000 SF

BUILDING 2
FFE=111.50
22,500 SF

COMPLEX A1
POND

ASSOCIATES, REALITY
AP 21-3,
LOT 10
N/F
RR

BOUVIER
LOT 19
SUSAN

HARRISON
REALITY
AP 21-3,
CORP.

ELECTRIC AMERICA
AP 21-3,
CORP.

FAIRGROUNDS ROAD
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)

LIMIT OF WORK
S
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)

PLANTING NOTES:
7.5. CONTRACTOR TO PROVIDE 8 INCHES OF GOOD QUALITY, LOAM AND/OR REUSE EXISTING LOAM LOAM MOVED ON SITE TO BE STOCKPILED AND RETAINED AND TO BE USED AS REQUIRED FOR THE FINAL ACCEPTANCE. FLOODED WITH CLEAN WATER TWICE WITHIN THE FIRST 24 HOURS OF PLANTING. ADDITIONAL PRIOR TO INSTALLATION.

6. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO COMMENCE AT FINAL ACCEPTANCE. ANY REPLACEMENT CONTRACTOR GUARANTEES THAT PLANTS WILL REMAIN HEALTHY FOR TWO (2) GROWING SEASONS. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT.

5. CONTRACTOR TO PROVIDE A TWO (2) YEAR GUARANTEE FOR ALL PLANT MATERIALS.

4. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS BY NOTIFYING DIG-SAFE (811) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION OR SITE PREPARATION AND ANY/OR ALL LOCAL UTILITY COMPANIES AS REQUIRED.

3. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO COMMENCE AT FINAL ACCEPTANCE. ANY REPLACEMENT WORK SHALL BE AT A RATE OF 5-7 LBS. PER 1,000 SF (AVAILABLE AT ALLENS SEED IN EXETER, RI OR OTHER SELLER'S CHOICE)

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SOIL THAT IS NUTRIENT DEFICIENT SHALL BE AMENDED BY THE ADDITION OF COMPOST PRIOR TO BACKFILLING THE HOLE.

THE TOP 50% OF BURLAP AND WIRE BASKET SHALL BE REMOVED.

ENOUGH SOIL FROM THE TOP OF THE ROOT BALL SHALL BE REMOVED TO EXPOSE TRUNK/ROOT FLARE.

TREES SHALL BE MULCHED WITH 2 (TWO) TO 3 (THREE) INCHES OF MULCH, KEEPING MULCH 3 (THREE) INCHES AWAY FROM TRUNK.

TREES SHALL BE PLANTED AT A DEPTH THAT ALLOWS FULL EXPOSURE OF TRUNK/ROOT FLARE.

9-FOOT WIDE X 18' HALF END ISLANDS: AT LEAST 1 TREE, PLUS AT LEAST 3 LOW SHRUBS OR GROUND COVER PLANTS AND/OR TURF

PARKING IS PROPOSED ALONG BUILDINGS.

2,500 SQ. FT. OF PAVED PARKING AREA.

NO LESS THAN TEN (10) FEET IN WIDTH WHERE THE PARKING AREA CONTAINS FIVE (5) SPACES OR MORE OR WHICH EXCEEDS 2500 SQ.

PERIMETER LANDSCAPING - PARKING LOTS AND LOADING FACILITIES

PARKING AND LOADING AREAS DO NOT ADJOIN ANY RIGHT-OF-WAYS.

A STRIP OF LAND OF MINIMUM 4 FOOT WIDTH TO PROVIDE A STONE WALL, BRICK OR OTHER MASONRY WALL HAVING A MINIMUM

HEIGHT OF 3 FEET AND PLANTED AS A PARTIAL LANDSCAPE SCREEN. (SEE FIGURE 4).

DEVELOPMENT PLAN REVIEW WHERE NECESSARY TO ACHIEVE THE PURPOSES AND GOALS OF THIS SECTION.

PLANTING, PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED BELOW:

LANDSCAPING - GENERAL STANDARDS & SPECIFICATIONS

THE INTERIOR AREAS OF PARKING LOTS (EXCLUSIVE OF LOADING AREAS) SHALL ALSO BE LANDSCAPED. THE MINIMUM AMOUNT OF

WETLANDS, HILLSIDES, OR ROCK OUTCROPS SUFFICIENT TO SCREEN ADJACENT RIGHTS-OF-WAY. (SEE FIGURE 5).

AN EARTH BERM OF MINIMUM 8 FOOT WIDTH THAT IS AT LEAST 2.5 FEET HIGHER THAN THE FINISHED ELEVATION OF THE PARKING

WHICH IS OR MAY BE CUSTOMARILY USED BY THE PUBLIC AS ACCESS TO THE PARKING OR LOADING FACILITY, A LANDSCAPED STRIP

SO AS TO ACHIEVE A DENSE APPEARANCE WITHIN ONE YEAR OF PLANTING. IN ADDITION TO PLANT MATERIALS, THE PLANNING BOARD

SPACING OF SHRUBS AND OTHER PLANT MATERIALS WHICH ARE INTENDED TO PROVIDE A VISUAL AND/OR AUDIO SCREEN SHALL BE

NOTE:

GUYING DETAIL

50.2.0

HEIGHT VARIES

ROOTBALL ON

EVERGREEN PLANTING DETAIL

NOT TO SCALE

HEIGHT OF THE TREE

DO NOT CUT LEADER

AS NOTED ON PLANS

ATTACHED NO HIGHER

TREE PER PLAN

990 Washington Street Suite 101A Dedham, MA 02026
tel 781-326-0021 fax 401-464-6006 www.diprete-eng.com

METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND

DESIGN.