PLAN VIEW

SECTION VIEW

NOTES

1. RIPRAP TO BE PROCESSED ANGULAR ROCK
2. RIPRAP GRADIATION SHALL BE A WELL GRADED MIX FROM ABOUT 1.5 TIMES D SIZE TO 25 PERCENT OF THE D SIZE
3. THE RIPRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD
4. STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 6" ONTO THE GEOTEXTILE
5. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH, UNIFORMLY SLOPED SURFACE

TYPICAL RIPRAP APRON SCHEDULE

| CULVERT DIAMETER - D (IN.) | APRON LENGTH - L (FT.) | WIDTH -W1 (FT) | WIDTH -W2 (FT) | RIPRAP D50 (IN.) | RIPRAP THICKNESS (IN.) |
|---|---|---|---|---|---|
| 12 | 8 | 3 | 9 | 6 | 14 |
| 15 | 10 | 4 | 12 | 6 | 14 |

## RIPRAP APRON

NOT TO SCALE

## BITUMINOUS SIDEWALK

NOT TO SCALE

TERMINAL CURB PROFILE

PLAN VIEW

SECTION

## VERTICAL GRANITE CURB

NOT TO SCALE

## SEWER CLEANOUT

NOT TO SCALE

EMBANKMENT CONSTRUCTION

1. CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATION.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
3. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

## SPILLWAY SECTION

NOT TO SCALE

EMBANKMENT CONSTRUCTION NOTES:

1. CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATIONS
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM
3. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

UNDERDRAINED FILTER NOTES:

1. THE SOIL BED SHALL CONSIST OF A LOAMY COARSE SAND MIXED 50/50 WITH ORGANIC MATTER CONSISTING OF COMPOSTED PLANT AND/OR ANIMAL MATERIALS AND SHALL CONFORM TO THE FOLLOWING TEXTURAL SPECIFICATIONS:
   - SIEVE #10 - 85-100 PERCENT PASSING
   - SIEVE #20 - 70-100 PERCENT PASSING
   - SIEVE #60 - 15-40 PERCENT PASSING
   - SIEVE #200 - 10-15 PERCENT PASSING
2. THE SOIL BED SHALL BE 18 INCHES IN DEPTH AND UNDERLAIN BY A MINIMUM 12 INCH DEPTH OF COARSE GRAVEL.
3. A 6-INCH MIXING ZONE SHALL BE CREATED AT THE GRAVEL/SOIL BED INTERFACE BY ROTILLING SOIL BED MATERIAL INTO THE GRAVEL TO A DEPTH OF APPROXIMATELY 6 INCHES.
4. COMPACTION OF THE SOIL BED MATERIAL SHALL BE AVOIDED. IF COMPACTION OCCURS, ROTOTILL AGAIN PRIOR TO SEEDING OR SODDING.
5. A DENSE COVER OF GRASS OR SOD SHALL BE ESTABLISHED AND MAINTAINED ON THE SURFACE PRIOR TO ACCEPTING FLOWS TO PREVENT CLOGGING.

## DETENTION BASIN WITH UNDERDRAINED GRASS FILTER

NOT TO SCALE

## EMERGENCY SPILLWAY CROSS-SECTION

NOT TO SCALE

SERVICE TAP
(3/4" AND 1" C.C. THREAD)

SERVICE SADDLE
(1-1/2" AND 2" C.C. THREAD)

## TYPICAL SERVICE CONNECTION

NOT TO SCALE

NOTES:

DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET CLASSIFICATION.

ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.

## TYPICAL TRENCH SECTION

NOT TO SCALE

NOTES:

1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GRATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACES AND COMPACTED UNDER HAUNCHES OF PIPE; NUT IN ALL CASES DIMENSION B SHALL BE AT LEAST 9".
4. DIMENSION A IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER GRANULAR BORROW, CRUSHED STONE, STRUCTURAL EARTH EXCAVATION, AND STRUCTURAL ROCK EXCAVATION. DIMENSION A SHALL BE BASED ON PIPE DIAMETER D, AS SET FORTH IN THE FOLLOWING TABLE.

| PIPE DIAMETER D (INCHES) | MAX. TRENCH WIDTH, A (FEET) |
|---|---|
| 4 | 4.0 |
| 6 | 4.0 |
| 8 | 4.0 |
| 10 | 4.0 |
| 12 | 5.0 |
| 15 | 5.0 |
| 18 | 5.0 |
| 21 | 5.0 |
| 24 | 6.0 |
| 27 | 6.0 |
| 30 | 6.0 |
| 36 | 6.0 |
| 42 | 7.0 |
| 48 | 7.0 |

## HANDICAP RAMP

NOT TO SCALE

CABLES TO BE ENCASED IN SCHEDULE 40 PVC CONDUIT WHEN RUN BENEATH PAVED AREAS.

## TYPICAL UNDERGROUND CABLE INSTALLATION

NOT TO SCALE

NOTE:
USE SLOPED MOLD WHENEVER CURB ABUTS LANDSCAPE AREAS.

## SLIPFORM CONCRETE CURB

NOT TO SCALE

NOTE: PIPE CONNECTIONS SHALL BE WATERTIGHT FLEXIBLE BOOT CONNECTORS PROVIDES LEAKPROOF CONNECTION

## PRECAST MANHOLE

NOT TO SCALE

## HANDICAP SIGNS

NOT TO SCALE

NOTE:
TRANSFORMER PAD AND COVER TO BE FIBERGLASS MEETING CENTRAL MAINE POWER SPECIFICATIONS.

## TRANSFORMER DETAIL

NOT TO SCALE

## METAL BOLLARD

NOT TO SCALE

Reviewed for Code Compliance Inspection Division Portland, Maine
Date: 10/15/15

RICHARD MEEK PE 10668

STATE OF MAINE RICHARD L. MEEK No. 10668 LICENSED PROFESSIONAL ENGINEER

| DESIGNED | CHECKED |
|---|---|
| DES BY | RLM |

| REV: | BY: | DATE: | STATUS: |
|---|---|---|---|
| B | RLM | 6-29-15 | SUBMIT FINAL SITE PLAN APPLICATION TO CITY |
| A | RLM | 5-21-15 | SUBMIT PRELIMINARY SITE PLAN APPLICATION TO CITY |

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DETAILS
OF:
LOT 5 INDUSTRIAL WAY
81 INDUSTRIAL WAY
PORTLAND, ME 04103
FOR:
DEERFIELD 91 INDUSTRIAL, LLC.
1 CANAL PLAZA
PORTLAND, ME 04101

| PROJECT NO. | SCALE |
|---|---|
| 04479 | NTS |

SHEET 7 OF 7

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