

# CITY OF PORTLAND PUBLIC SERVICES DEPARTMENT

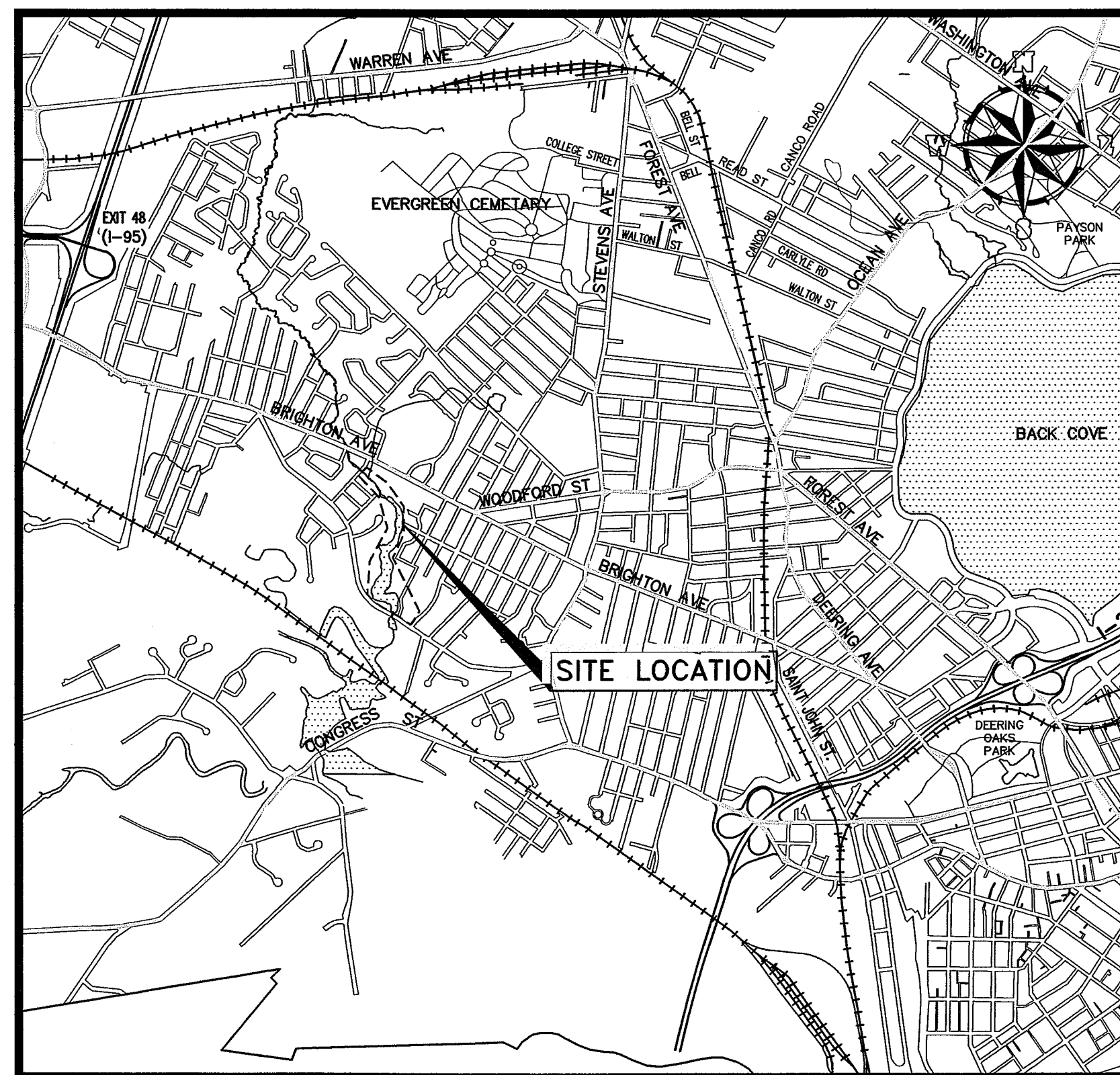
## CONTRACT DRAWINGS

### ROCKLAND AVENUE OUTFALL

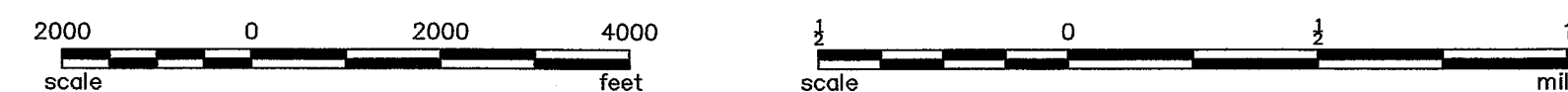
YEAR  
APPROVED  
2014

BID NUMBER: #715

JULY 9, 2014



SITE LOCATION MAP

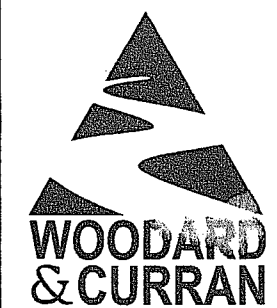


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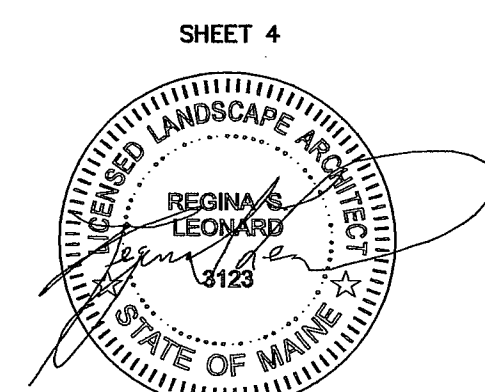
  
KATHERINE A. EARLEY 7/9/14  
CITY ENGINEER DATE

  
NATHANIEL SMITH 7/9/14  
CITY PROJECT MANAGER DATE

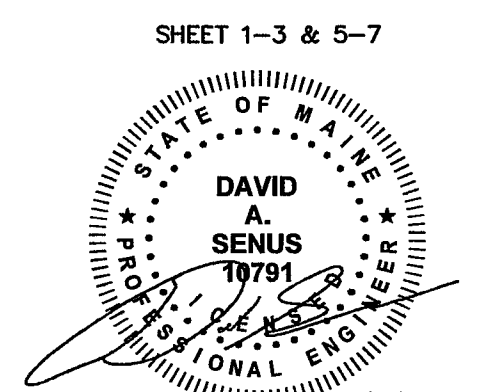


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Portland, Maine 04102  
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COMMITMENT & INTEGRITY DRIVE RESULTS



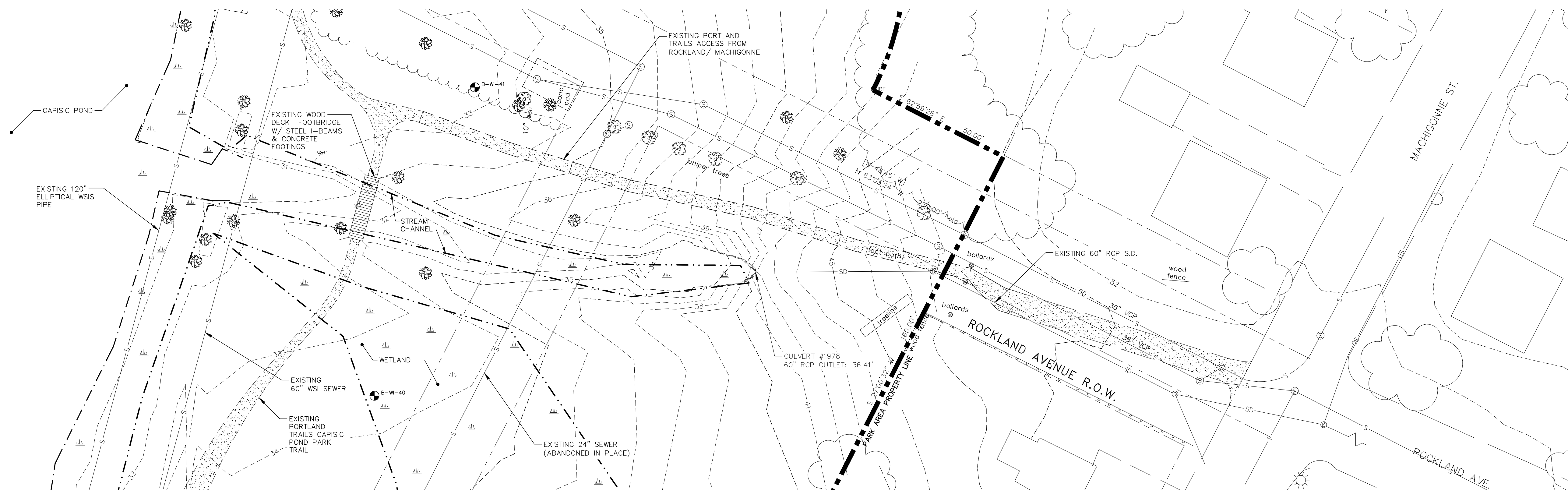
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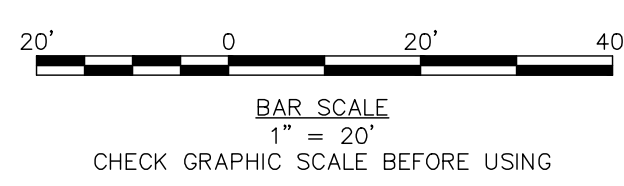
SEAL & SIGNATURE



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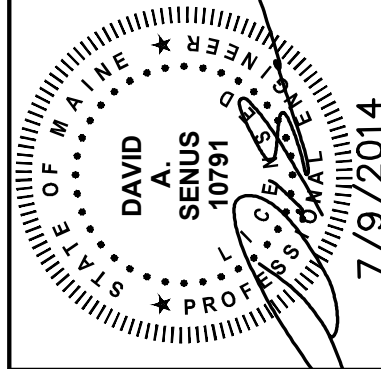


**EXISTING CONDITIONS PLAN**  
SCALE: 1" = 20'



CITY OF PORTLAND, MAINE  
PUBLIC SERVICES DEPARTMENT  
ENGINEERING SECTION

ROCKLAND AVENUE OUTFALL  
EXISTING CONDITIONS



DESIGNED BY: BCM/ALJ  
DRAWN BY: BCM  
CHECKED BY: DAS  
SCALE: 1"=20'  
DATE: JULY 9, 2014

REFERENCES:  
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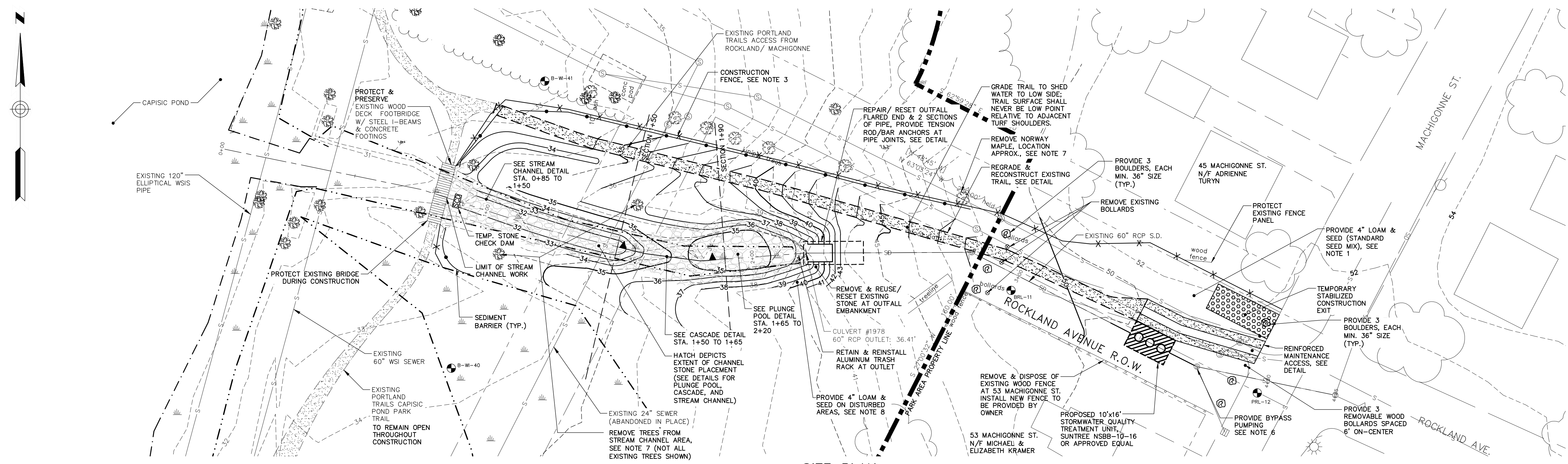
LDD PROJECT NAME: N/A  
DRAWING NAME: 225672.77 C20X 24x36.DWG  
FIELD BOOK USED: N/A



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PORTLAND, MAINE 04102  
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COMMITMENT & INTEGRITY DRIVE RESULTS

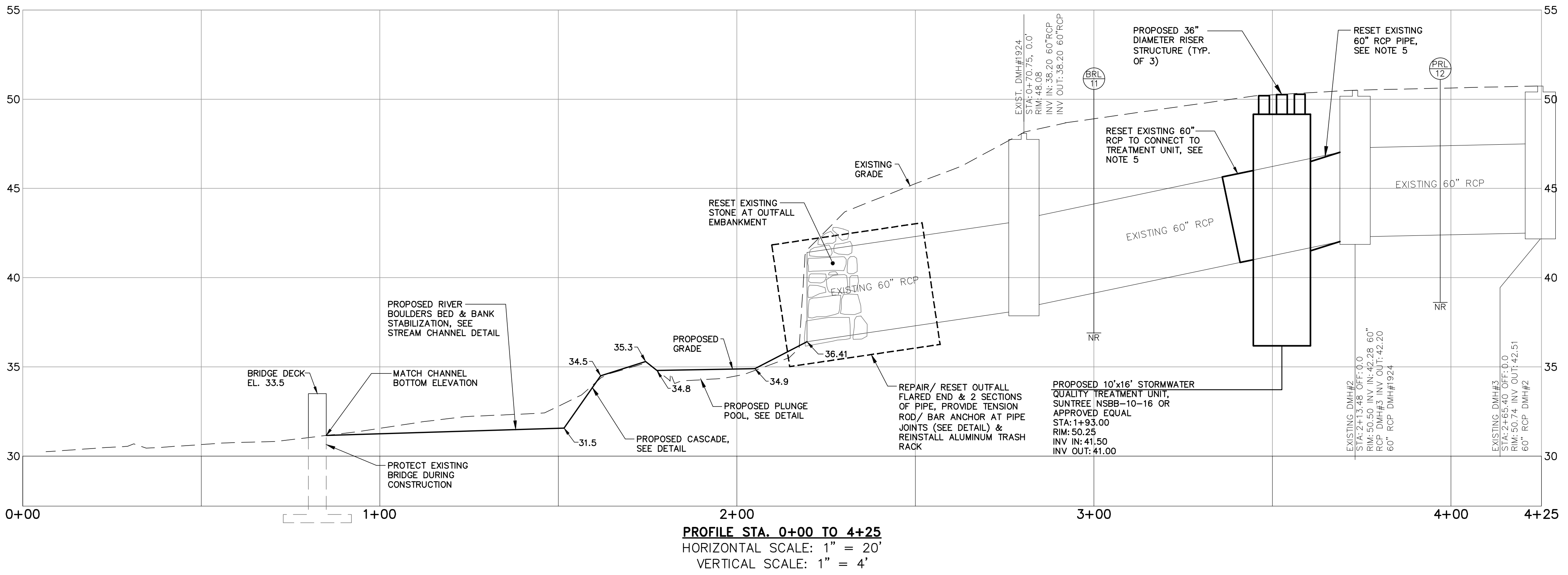
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 Portland-Cen Eng Svcs\wp 17 Capisic Pond Ph III Drawings\Design Drawings\225672.77 C20X 24x36.dwg Jul 09, 2014 3:15pm



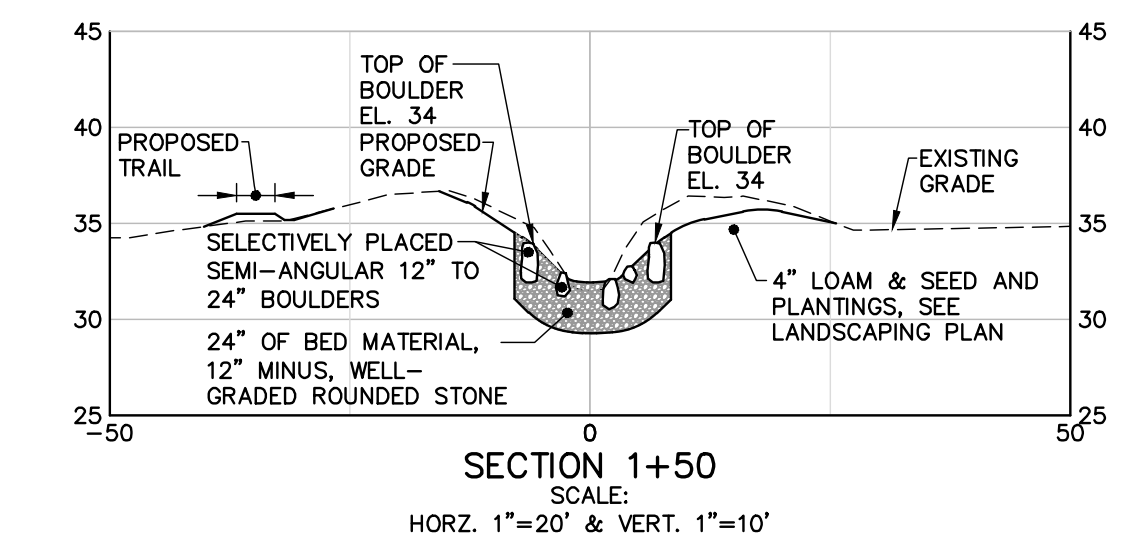
**SITE PLAN**  
SCALE: 1" = 20'

**NOTES:**

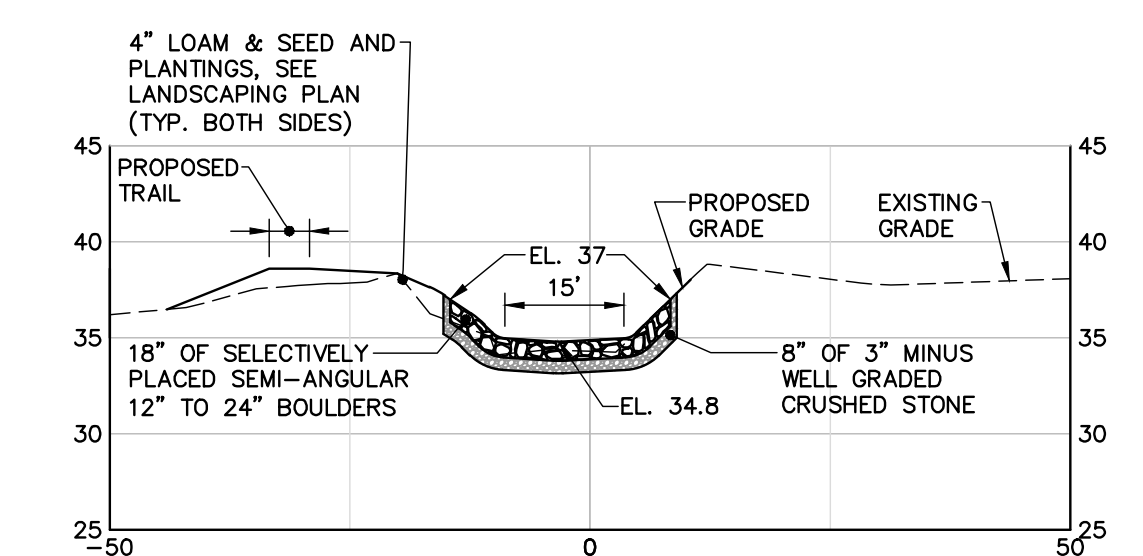
- THE ENTRANCE TO THE ROCKLAND AVENUE OUTFALL AREA AT THE INTERSECTION OF ROCKLAND AVENUE AND MACHIGONNE STREET SHALL BE REVEGETATED WITH 4" LOAM AND SEED, EXCEPT IN AREAS IDENTIFIED FOR GRAVEL SURFACE PER THE DETAIL FOR REINFORCED MAINTENANCE ACCESS AND TRAIL.
- ADDITIONAL LANDSCAPING MAY BE INSTALLED IN THE VICINITY OF THE MAINTENANCE ACCESS WAY. QUANTITIES AND LOCATIONS OF PLANTINGS SHALL BE DETERMINED BY THE CITY, AND COST SHALL BE WITHIN ADDITIONAL LANDSCAPING ALLOWANCE AS IDENTIFIED IN THE CONTRACT DOCUMENTS. UPON COMPLETION OF CONSTRUCTION THE STORMWATER TREATMENT UNIT AND MAINTENANCE ACCESS WAY, CONTRACTOR SHALL CONTACT CITY OF PORTLAND ARBORIST JEFF TARLING (207-874-8801) TO COORDINATE TYPE AND LOCATION OF ADDITIONAL LANDSCAPING.
- THE CONTRACTOR MAY MODIFY THE LOCATION OF THE CONSTRUCTION FENCE, AND MAY MOVE THE FENCE DURING CONSTRUCTION TO PROVIDE FOR A SAFE CONSTRUCTION SITE.
- THE CONSTRUCTION SITE CONTAINS AN ACTIVE PEDESTRIAN TRAIL THAT MAY BE CLOSED DURING CONSTRUCTION AS NECESSARY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF PORTLAND AND WITH PORTLAND TRAILS (JAIME PARKER 207-775-2411) PRIOR TO THE START OF CONSTRUCTION ON THE TIMING OF TRAIL CLOSURE SO THAT ADEQUATE NOTICE MAY BE PROVIDED TO THE PUBLIC. CONTRACTOR SHALL ALSO COORDINATE WITH JAIME PARKER FOR INSPECTION OF NEW TRAIL CONSTRUCTION.
- CONTRACTOR MAY UTILIZE PLASTIC PIPE (SANITITE HP, BY ADS, OR EQUAL) TO CONNECT STORMWATER QUALITY UNIT TO EXISTING RCP PIPE. CONNECTION BETWEEN RCP AND HDPE PIPE MUST BE MAR-MAC POLYSEAL PIPE COUPLER, OR EQUAL, SEE DETAIL.
- CONTRACTOR SHALL BYPASS PUMP BASE FLOW FROM EXISTING DMH #3, LOCATED UPSTREAM OF PROJECT AREA TO CAPISIC POND. A PUMPED DISCHARGE SEDIMENT CONTROL DEVICE SHALL BE UTILIZED (SEE DETAIL) AND MAY BE MOVED TO ACCOMMODATE CONSTRUCTION. WORK SHALL NOT OCCUR DURING STORM EVENTS THAT EXCEED CAPACITY OF THE BYPASS SYSTEM.
- NORWAY MAPLE LOCATED ADJACENT TO THE GRAVEL PATH SHALL BE REMOVED PER THE DIRECTION OF THE CITY OF PORTLAND. PROTECT ALL OTHER EXISTING TREES LOCATED NORTH OF THE GRAVEL PATH. EXISTING TREES ALONG STREAM CHANNEL SHALL BE REMOVED, AND SHALL BE REPLACED WITH VEGETATION IN ACCORDANCE WITH THE LANDSCAPE PLAN ON SHEET C-202. CONTRACTOR SHALL CONTACT THE CITY ARBORIST PRIOR TO ANY TREE REMOVAL AND CITY ARBORIST SHALL IDENTIFY SPECIFIC TREES FOR REMOVAL.
- ALL AREAS DISTURBED BY CONSTRUCTION AND NOT IDENTIFIED FOR OTHER SURFACE TREATMENT SHALL RECEIVE 4" LOAM AND SEED. ALL AREAS INSIDE PARK PROPERTY SHALL USE NEW ENGLAND CONSERVATION / WILDLIFE SEED MIX AND ALL AREAS OUTSIDE OF PARK SHALL USE STANDARD SEE MIX, PER SPECIFICATIONS.



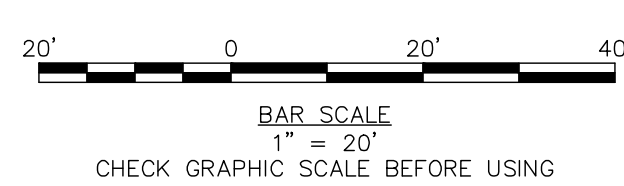
**PROFILE STA. 0+00 TO 4+25**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**SECTION 1+50**  
SCALE: 1" = 20' & VERT. 1" = 10'  
HORZ. 1" = 20' & VERT. 1" = 10'



**SECTION 1+90**  
SCALE: 1" = 20' & VERT. 1" = 10'  
HORZ. 1" = 20' & VERT. 1" = 10'



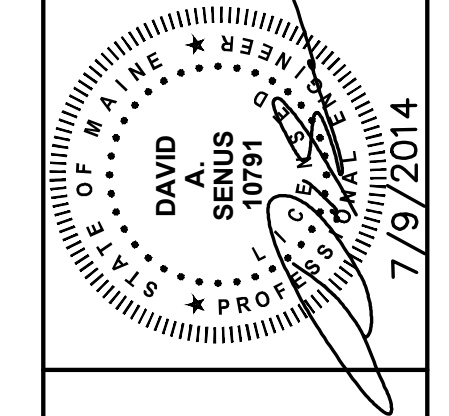
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LDD PROJECT NAME:  
 N/A  
 DRAWING NAME:  
 225672.77 C20X 24x36.DWG  
 FIELD BOOK USED:  
 N/A

REFERENCES:  
 Drawing 1\_2012.dwg

DESIGNED BY:	BCM/JLS
DRAWN BY:	BCM
CHECKED BY:	DAS
SCALE:	AS NOTED
DATE:	JULY 9, 2014

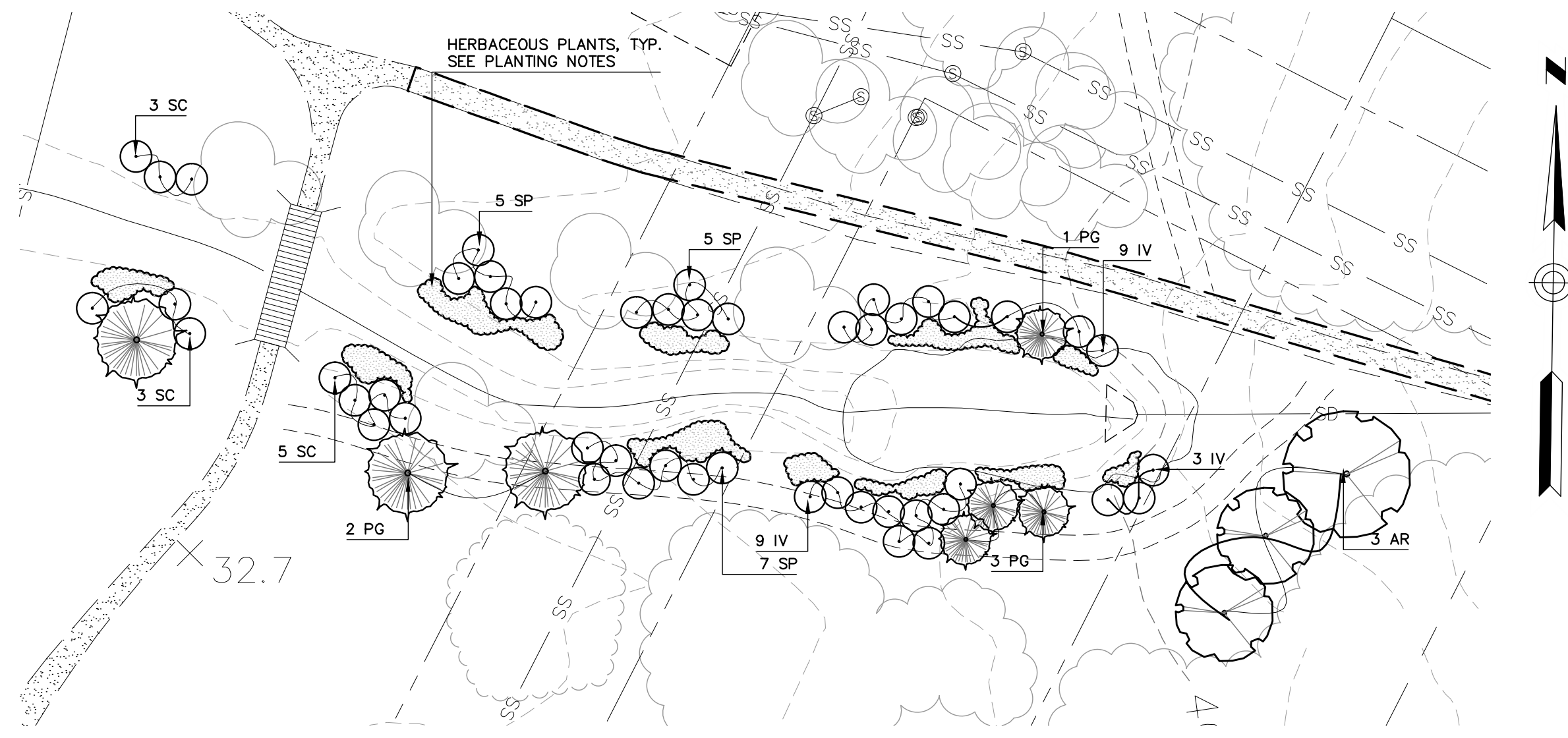


ROCKLAND AVENUE OUTFALL  
 SITE PLAN & PROFILE,  
 SECTIONS

CITY OF PORTLAND, MAINE  
 PUBLIC SERVICES DEPARTMENT  
 ENGINEERING SECTION



SHEET #  
 3 OF 8  
 PLAN NUMBER  
 C-201



### ROCKLAND AVENUE OUTFALL PLANTINGS

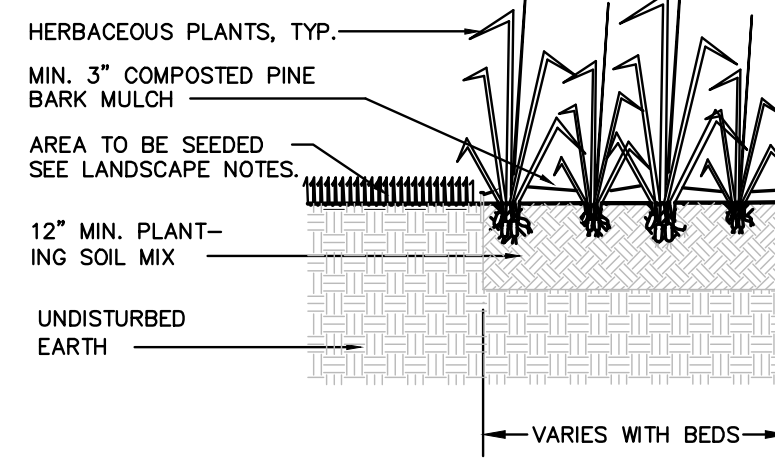
#### PLANTING KEY - ROCKLAND OUTFALL

<b>TREES:</b>			
AR	2 ACER RUBRUM	RED MAPLE	6-8' HT.
1	ACER RUBRUM	RED MAPLE	2" CAL
PG	2 PICEA GLAUCA	WHITE SPRUCE	6-10' HT
4	PICEA GLAUCA	WHITE SPRUCE	5-6' HT.
<b>SHRUBS:</b>			
IV	10 ILEX V. 'WINTER RED'	WINTERBERRY, FEMALE	3-4' HT.
2	ILEX V. 'SO. GENTLEMAN'	WINTERBERRY, MALE	3-4' HT.
SP	41 SALIX PETIOLARIS	SLENDER WILLOW	15-18" HT.
SC	15 SAMBUCUS CANADENSIS	ELDERBERRY	15-18" HT.
<b>HERBACEOUS MATERIAL:</b>			
12	CHELONE GLABRA	TURTLEHEAD	BRP, 24" OC
120	JUNCUS EFFUSUS	SOFT RUSH	PLUG, 18" OC
35	LOBELIA CARDINALIS	CARDINAL FLOWER	PLUG, 24" OC

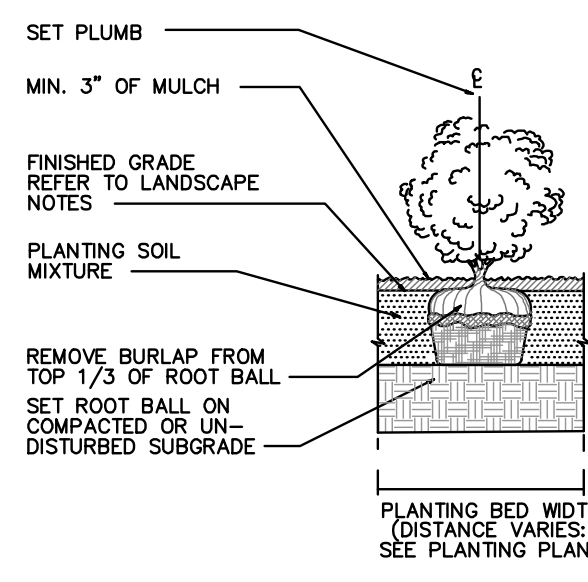
SEED IN PARK:  
 NEW ENGLAND CONSERVATION / WILDLIFE MIX - OR EQUAL:  
 APPLICATION RATE: 25 LBS/ACRE (X2) - SPRING SEEDING (FALL)  
 SUPPLIER: NEW ENGLAND WETLAND PLANTS, INC. - 820 WEST STREET, AMHERST, MA 01002; TEL. 413-548-8000

BAR SCALE  
 1" = 20'

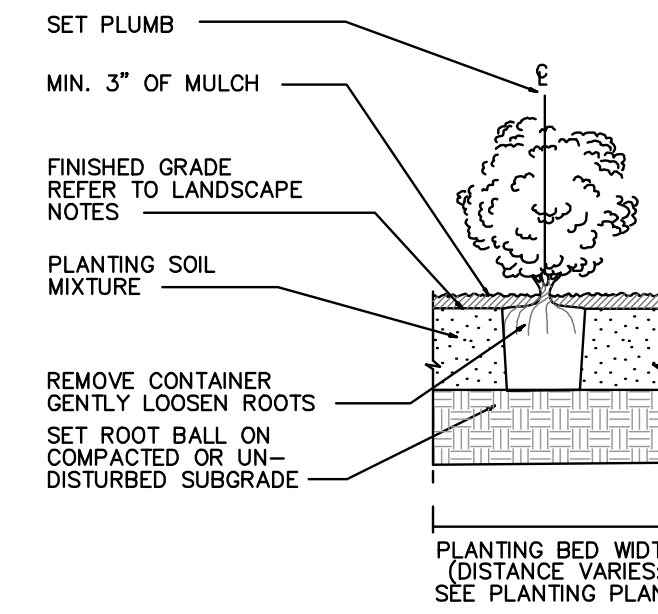
CHECK GRAPHIC SCALE BEFORE USING



HERBACEOUS PLANTS - INSTALLATION DETAILS



SHRUB PLANTING DETAIL



CONTAINER PLANTS (TREES & SHRUBS)

DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

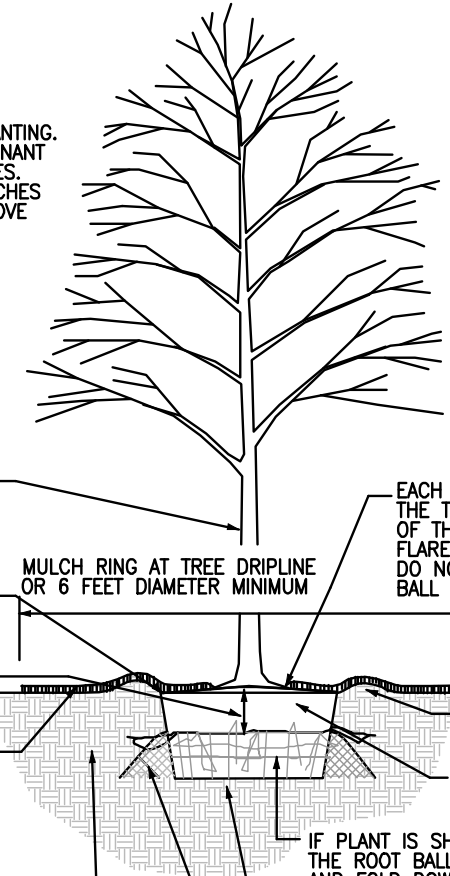
MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.

SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 INCHES HIGHER IN SLOWLY DRAINING SOILS.

MINIMUM 8 INCHES BARE ROOTBALL MEASURED FROM TRUNK CROWN

3 INCHES MULCH, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

NOTE: FOR DIMENSIONS OF PLANTING AREAS, TYPES OF SOIL AMENDMENTS, OR SOIL REPLACEMENT, SEE LANDSCAPE NOTES AND/OR SPECS.



EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

MULCH RING AT TREE DRIPLINE OR 6 FEET DIAMETER MINIMUM

MINIMUM 3 INCHES HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL.

REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL

IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN MIN. 8 INCHES INTO PLANTING HOLE.

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

TREE PLANTING DETAIL - B&B TREES IN ALL SOIL TYPES

### GENERAL PLANTING NOTES - ROCKLAND OUTFALL

- All materials shall conform to the guidelines established by the American Association of Nurserymen or as specified herein.
- In the case of any discrepancies between species and quantities called out in the planting key and those shown on the plan, quantities and species shown on the plan shall over-ride.
- All planting shall be done in accordance with acceptable horticultural practices.
- All plants subject to approval by the City's Engineer and/or Wetland Professional. All substitutions must be submitted for approval prior to ordering or delivery of plant material on site. City reserves the right to reject any plantings that do not conform to the drawings or specifications outlined herein.
- Planting locations shown on the plan are approximate and will need to be adjusted to respond to as-built conditions that provide growing conditions necessary for plant establishment. City's Engineer and/or Wetland Professional shall layout and/or approve final placement of all plant materials.
- Plants in the Rockland Outfall plan shall be planted per the technical specifications and relevant details herein. All herbaceous material shall be field-located to ensure that the as-built conditions provide optimal growing conditions for the species. The Contractor shall correct any deficiencies in the built condition to ensure that the soil and physical site conditions meet the growing requirements of the specified species.
- Excavated native soils shall be amended with Superhumus (New England Organics, Portland, ME) at a 25 percent ratio.
- All disturbed areas designated shall be seeded as noted in the Site Plantings Key.
- Contractor shall provide a watering plan for approval by the City. All plants and newly grassed areas shall be watered as required thereafter to ensure survival and growth through the first two years.
- Plant material shall be guaranteed by the contractor for a period of two years from the date of installation. During the two year guarantee, the contractor shall replace, in kind, any dead, diseased, or substandard plant material at no cost to the owner. The contractor shall receive final acceptance from the owner following the two year guarantee, provided the provisions of the plant guarantee have been satisfactorily met.
- The Contractor shall assume responsibility to ensure that all work is performed in compliance with all State and Local requirements.

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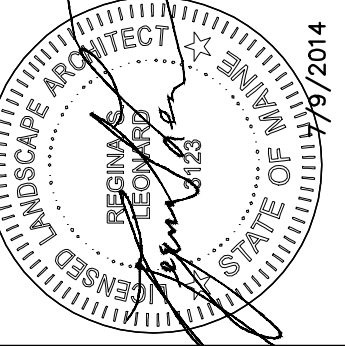
Regina S. Leonard  
 landscape architecture & design  
 Tel. 207.450.9700  
 Regina@rsdesign.com  
 29 Bridge Street  
 Topsham, Me 04086

COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME:  
 N/A  
 DRAWING NAME:  
 225672.77 L10X 24x36.DWG  
 FIELD BOOK USED:  
 N/A

#### REFERENCES:

DESIGNED BY:	RSL
DRAWN BY:	RSL
CHECKED BY:	DAS
SCALE:	AS NOTED
DATE:	JULY 9, 2014



ROCKLAND AVENUE OUTFALL  
 LANDSCAPING PLAN & DETAILS

CITY OF PORTLAND, MAINE  
 PUBLIC SERVICES DEPARTMENT  
 ENGINEERING SECTION

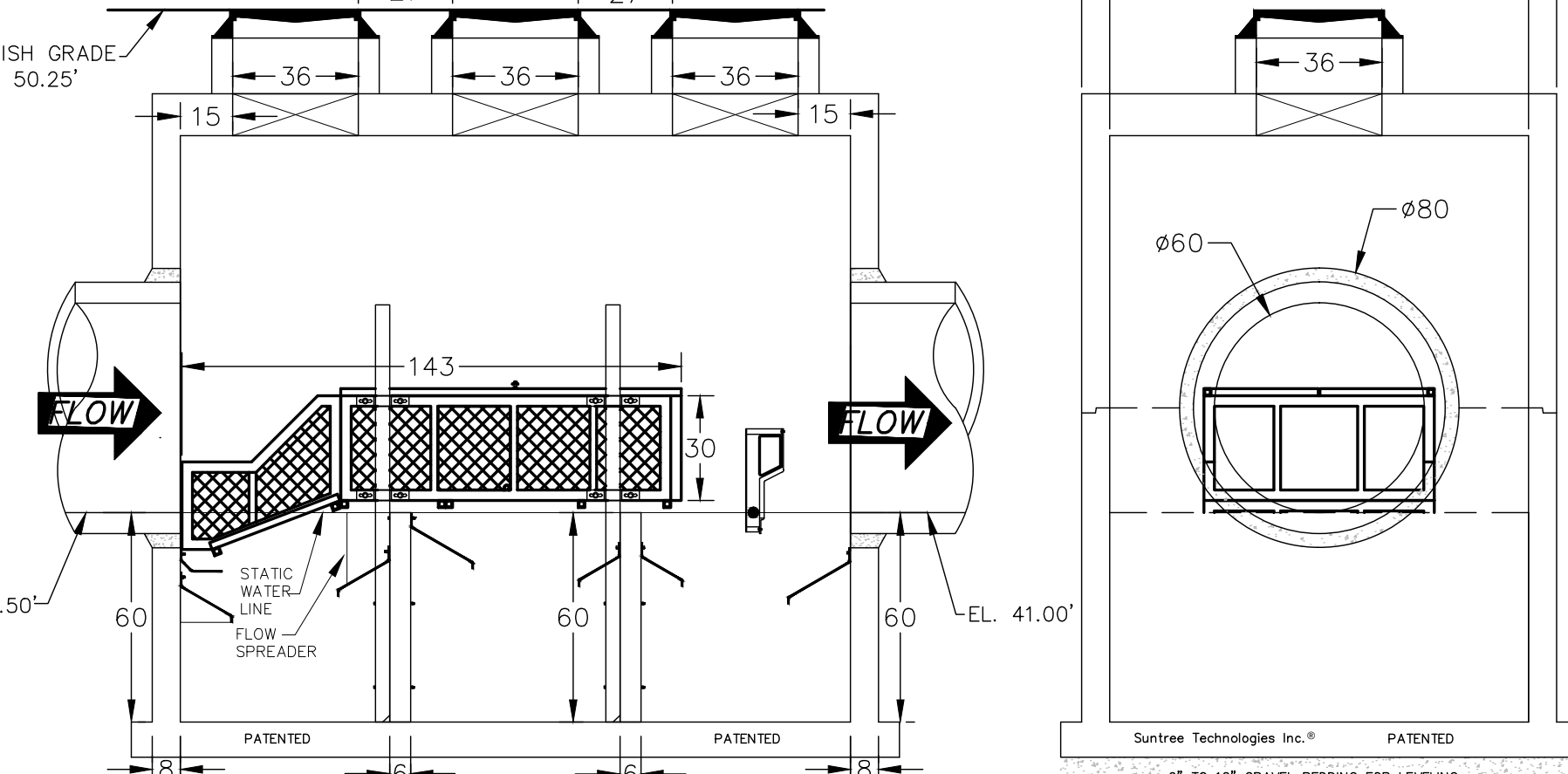
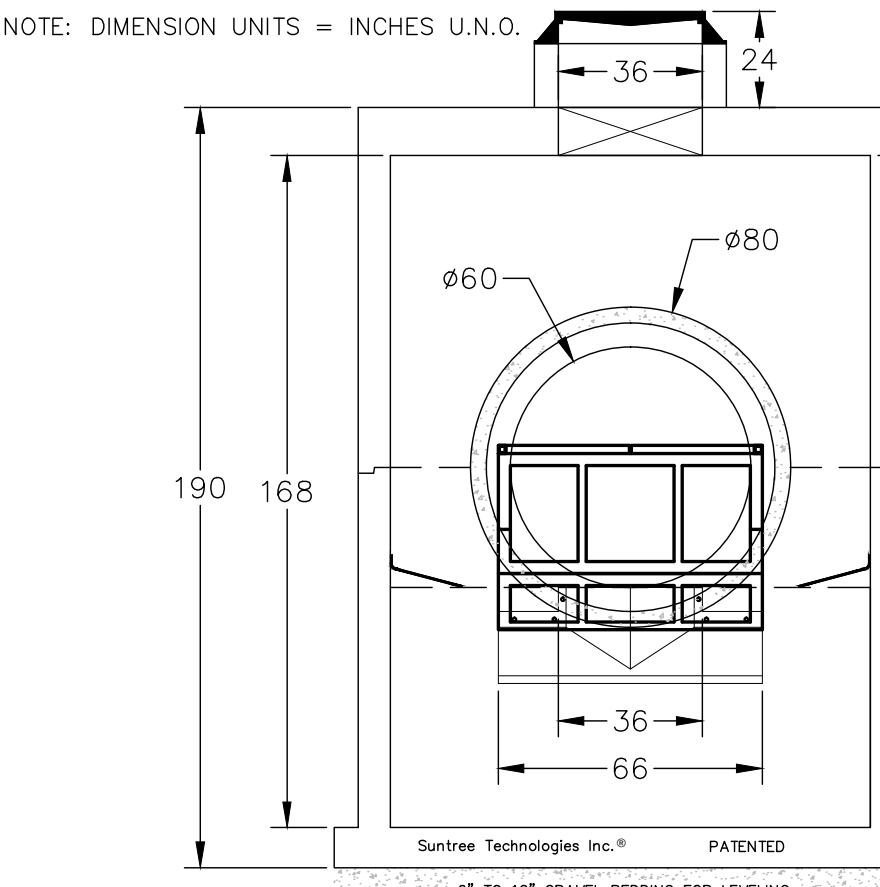
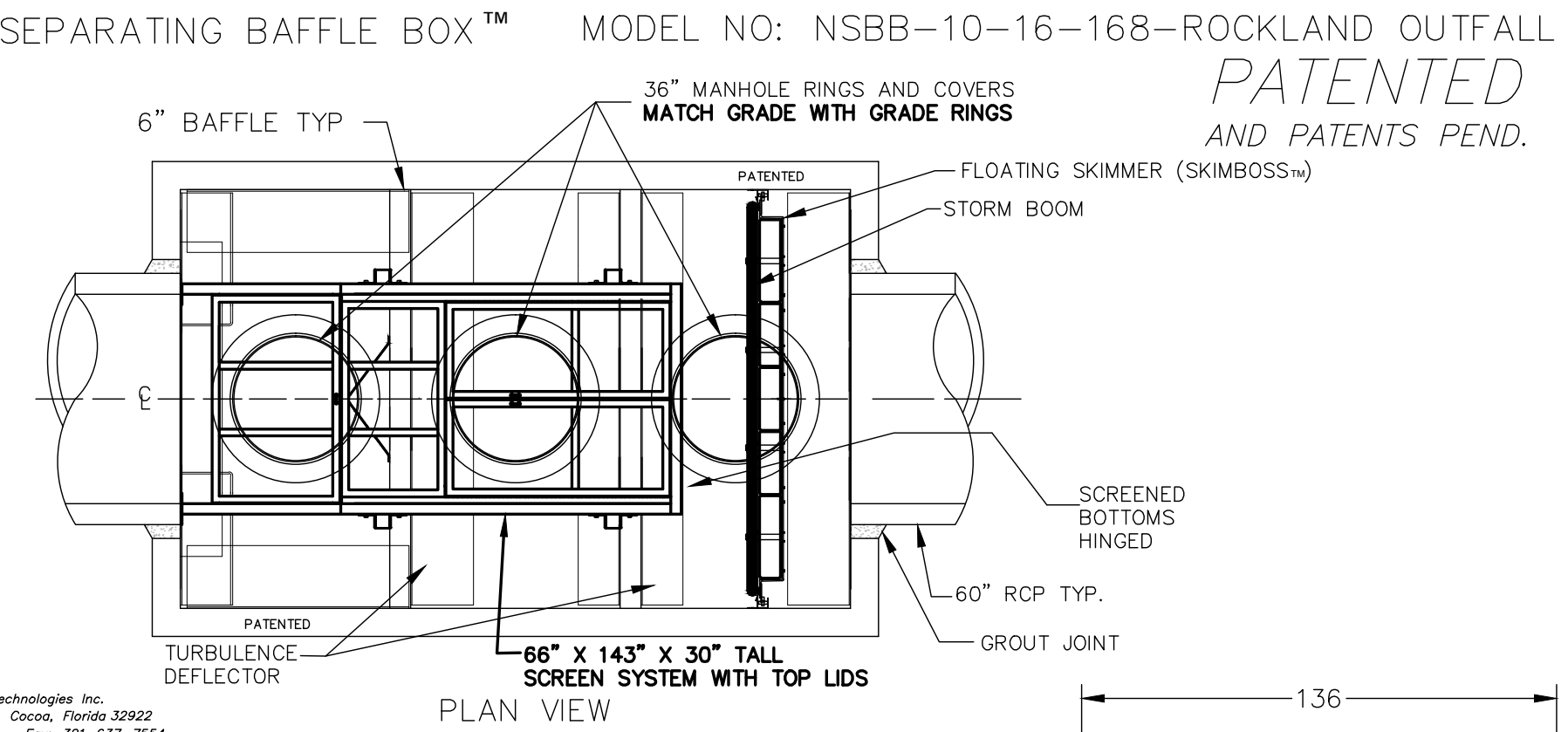


SHEET #  
 4 OF 8  
 PLAN NUMBER  
 C-202



SUNTREE TECHNOLOGIES INC.®  
 FLOW & BY-PASS SPECIFICATIONS FOR BIOMASS SEPARATING  
 SCREEN SYSTEM, SEDIMENT COLLECTION CHAMBERS, AND  
 SKIMMER SPECIFICATIONS

- Pipe inflow area (Drawn as 60" RCP) — 19.63 sq.ft.
- SCREEN SPECIFICATIONS:
- Open orifice area in screen system — 62.53 sq.ft.
- Open orifice area in screen system with 50% blockage — 31.27 sq.ft.
- Open orifice area in screen system with 75% blockage — 15.63 sq.ft.
- Minimum by-pass through screen system below the top surface of the pipe — 28.44 sq.ft.
- Minimum by-pass around screen system below the top surface of the pipe — 21.65 sq.ft.
- Screen system storage volume — 141.46 cu.ft.
- SEDIMENT STORAGE:
- Volume of first sediment chamber — 250 cu.ft.
- Volume of second sediment chamber — 250 cu.ft.
- Volume of third sediment chamber — 250 cu.ft.
- Total sediment volume — 750 cu.ft.
- SKIMMER SPECIFICATIONS:
- Flow area under skimmer — 19.58 sq.ft.
- Area of pipe in line with skimmer — 11.95 sq.ft.
- Area between the skimmer and the outfall pipe parallel with the surface of the pipe — 34.01 sq.ft.



- NOTE: DIMENSION UNITS = INCHES U.N.O.
- CONCRETE 28 DAY COMPRESSIVE STRENGTH FC=5000 PSI
  - REINFORCING: ASTM A-615 GRADE 60
  - SUPPORTS AN H20 LOADING AS INDICATED BY AASHTO.
  - JOINT SEALANT: BUTYL RUBBER SS-5-00210
  - ALL WALLS TO BE 8" THICK, BOTTOM TO BE 10" THICK, AND TOP TO BE 12" THICK.
  - TREATMENT DESIGN FLOW FOR 98% REMOVAL EFFICIENCY OF TSS IS 45 CFS.
  - INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
  - BAFFLES ARE TO BE SEALED WITH GROUT TO FORM 3 WATER TIGHT CHAMBERS.
  - STRUCTURAL ROCK EXCAVATION (PAY ITEM 206.07) OR EARTH EXCAVATION (OVER DEPTH) (PAY ITEM 206.061) BELOW ESTABLISHED TRENCH PROFILE AS REQUIRED.

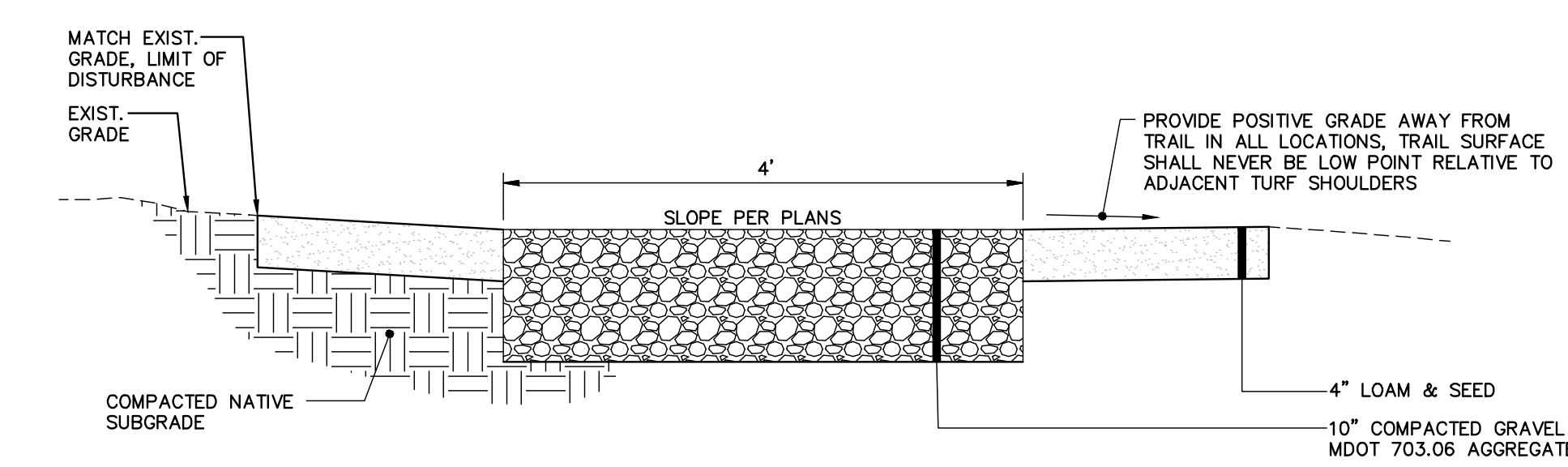
SUNTREE TECHNOLOGIES INC.®  
 798 CLEARLAKE RD., SUITE #2  
 COCOA, FL. 32922

PROJECT: ROCKLAND OUTFALL-PORTLAND, MAINE  
 DRAWING #

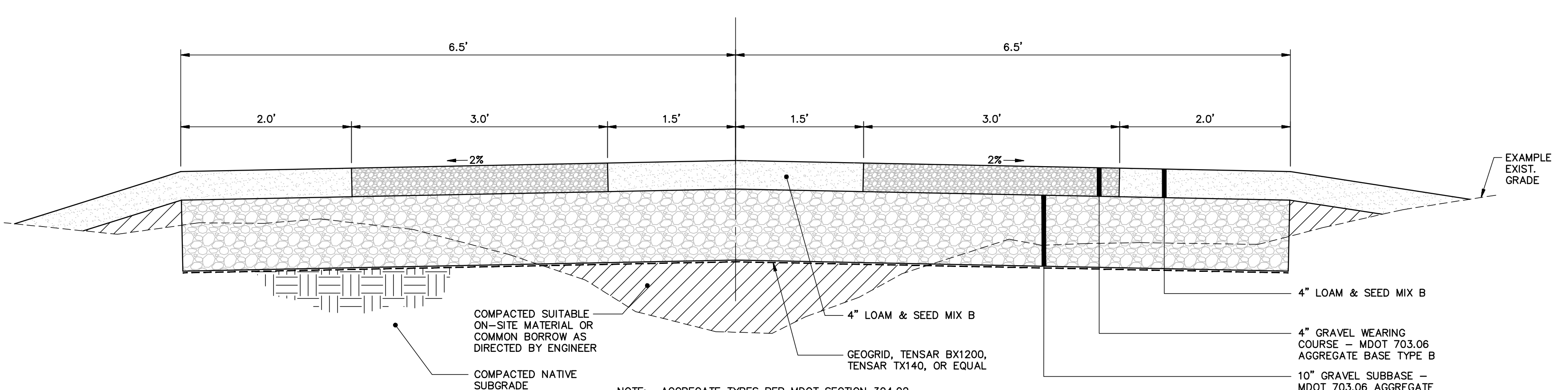
SUNTREE TECHNOLOGIES INC.® NUTRIENT SEPARATING BAFFLE BOX™  
 MODEL NO: NSBB-10-16-168-ROCKLAND OUTFALL  
 DATE: 03/20/13 SCALE: SF = 72

DRAFTER: T.H.2. UNITS = INCHES

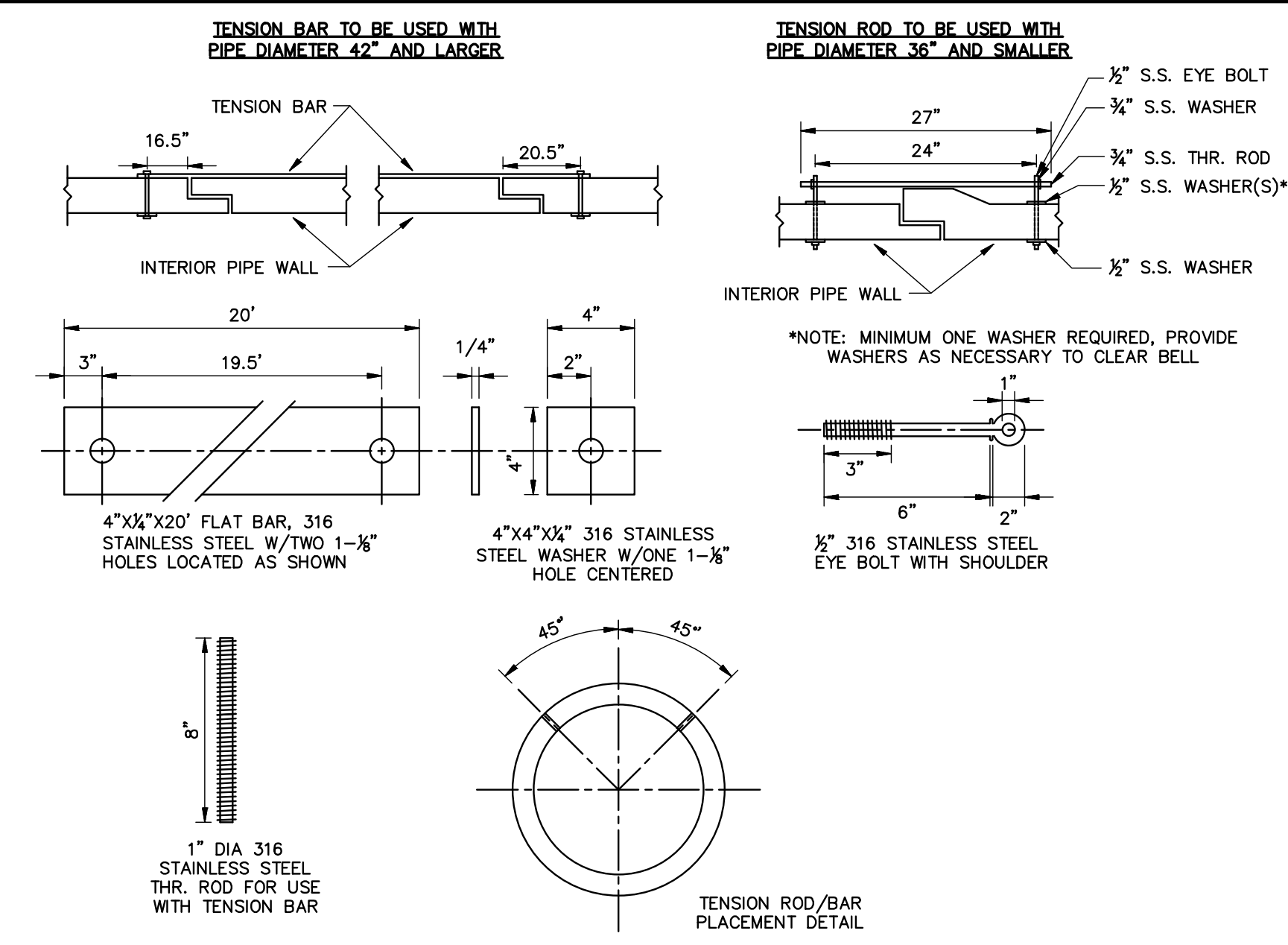
**SUNTREE STORMWATER QUALITY TREATMENT UNIT**  
 SCALE AS INDICATED



**TYPICAL GRAVEL TRAIL SECTION**  
 N.T.S.



**REINFORCED MAINTENANCE ACCESS**  
 N.T.S.



- NOTES:
- 316 S.S. RODS, BARS, BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F593 AND ASTM F594.
  - BOLT LENGTH PROTRUDING MORE THAN 1 INCH BEYOND TIGHTENED NUT SHALL BE CUT OFF FLUSH WITH NUT.

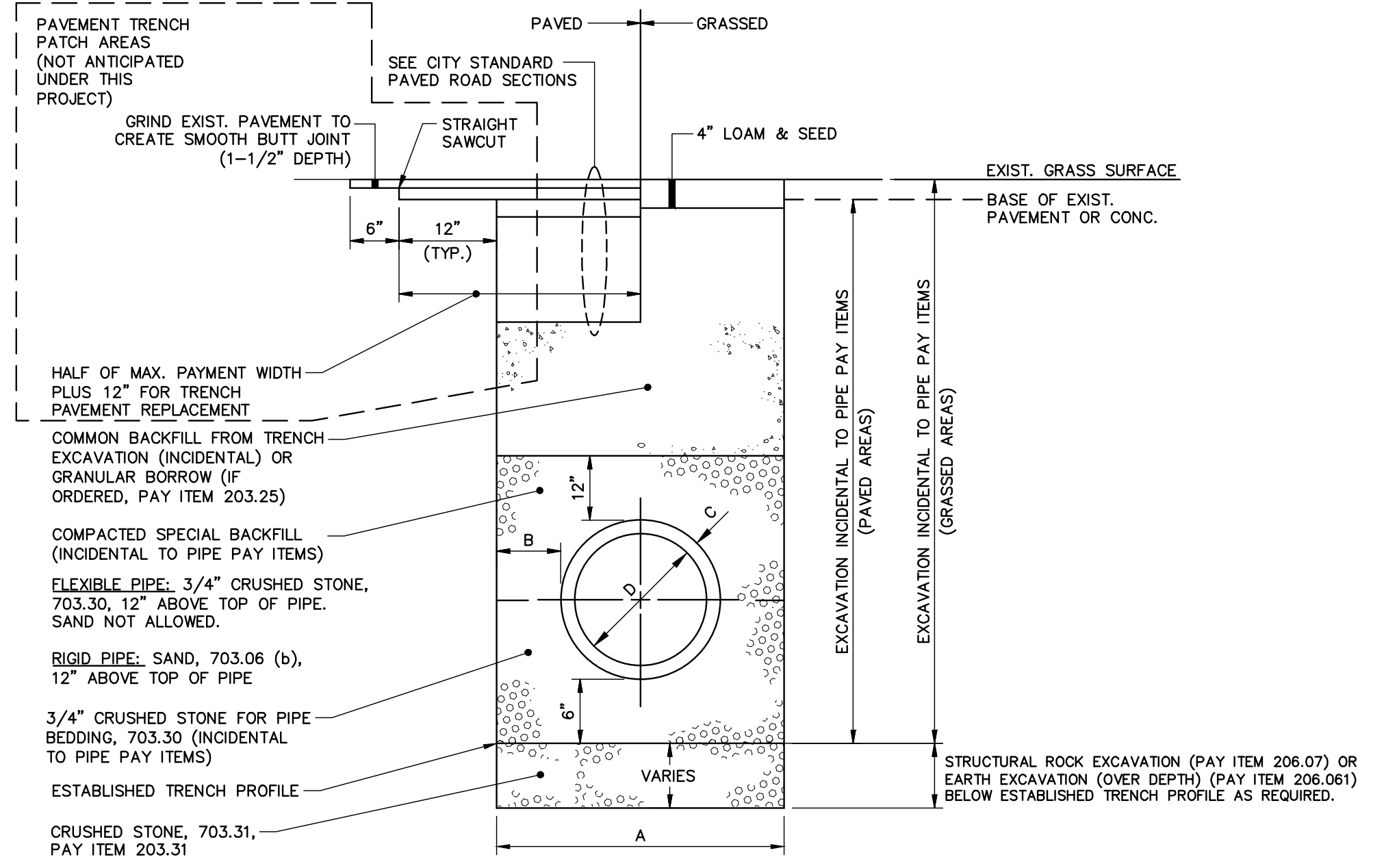
**TENSION ROD/BAR ASSEMBLY**  
 N.T.S.

**PIPE INSTALLATION DETAIL - NOTES**

- ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
- IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
- DIMENSION "B" SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES "B" SHALL BE AT LEAST 9".
- DIMENSION "A" IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER ITEMS 206.07 STRUCTURAL ROCK EXCAVATION. DIMENSION "A" SHALL BE BASED ON PIPE DIAMETER, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, "D" (INCHES)	MAX. TRENCH WIDTH, "A" (FEET)
6	4.0
8	4.0
10	4.0
12	4.0
15	4.0
18	4.0
21	5.0
24	5.5
27	6.0
30	6.0
36	7.0
42	8.0
48	8.0
54	8.0
60	9.0

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



**PIPE INSTALLATION DETAIL**  
 N.T.S.

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**WOODARD & CURRAN**

COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME:  
 N/A

DRAWING NAME:  
 225672.77 C20X 24x36.DWG

FIELD BOOK USED:  
 N/A

REFERENCES:  
 Design: L2012.dwg

DESIGNED BY: BCM/LJS  
 DRAWN BY: BCM  
 CHECKED BY: DAS  
 SCALE: AS NOTED  
 DATE: JULY 9, 2014

DAVID SEANUS 10791  
 PROFESSIONAL ENGINEER  
 7/9/2014

ROCKLAND AVENUE OUTFALL

SITE DETAILS - 2

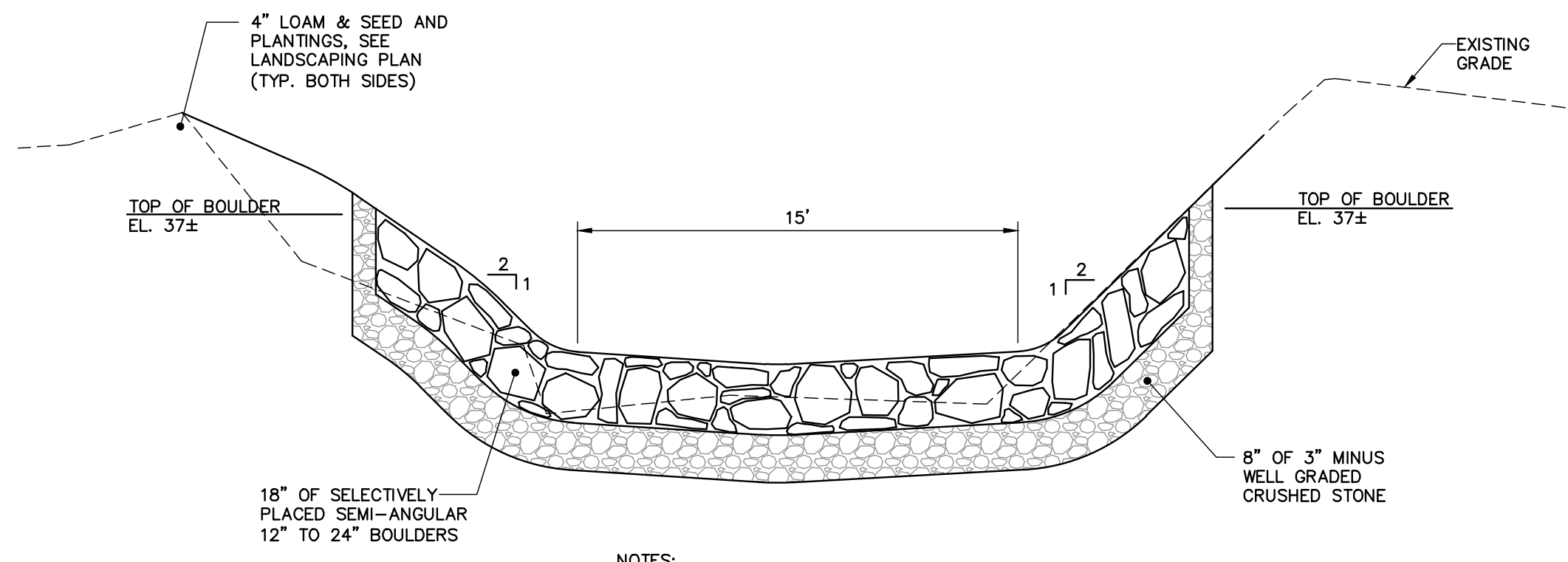
CITY OF PORTLAND, MAINE  
 PUBLIC SERVICES DEPARTMENT  
 ENGINEERING SECTION



SHEET #  
 6 OF 8

PLAN NUMBER  
 C-301

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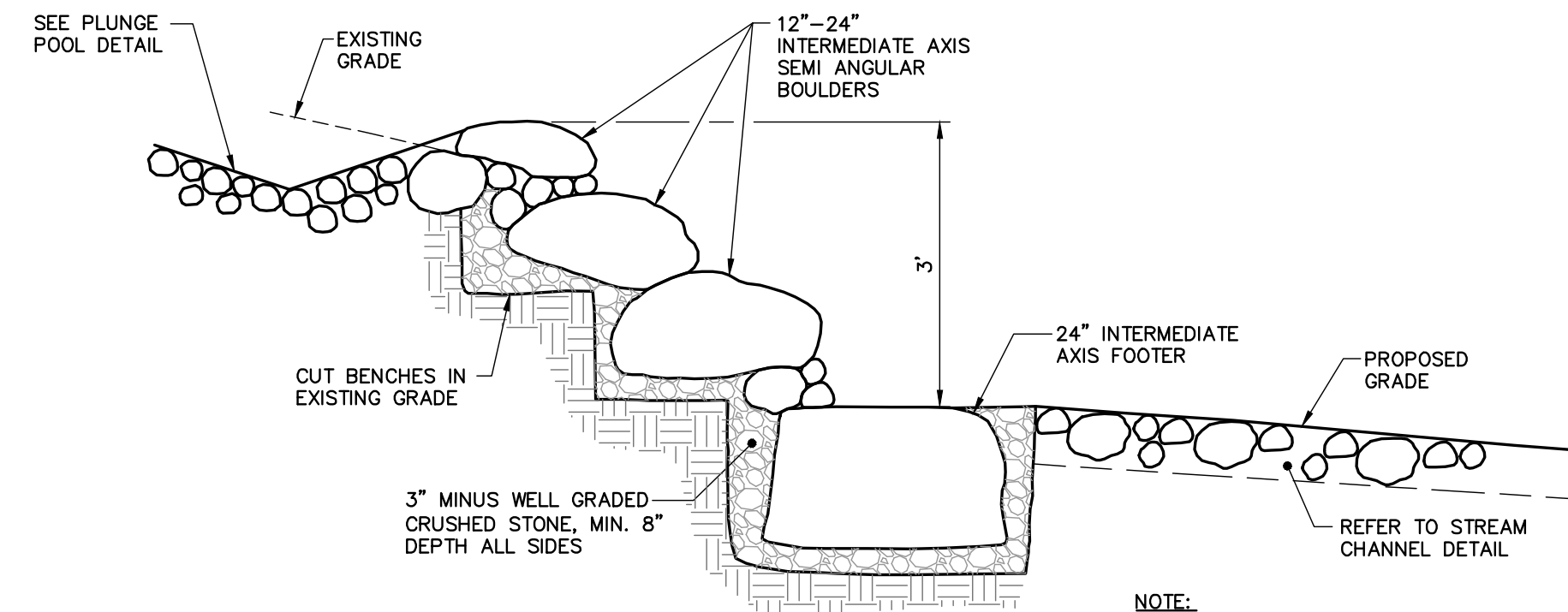


**NOTES:**

- INSTALL TEMPORARY EROSION CONTROL MATTING ON ALL SLOPES 2:1 OR GREATER OUTSIDE OF CHANNEL.

**ROCKLAND AVE. OUTFALL PLUNGE POOL DETAIL\***

\*CROSS SECTION DETAIL ACROSS CHANNEL;  
APPLICABLE STA. 1+65 TO 2+20  
N.T.S.

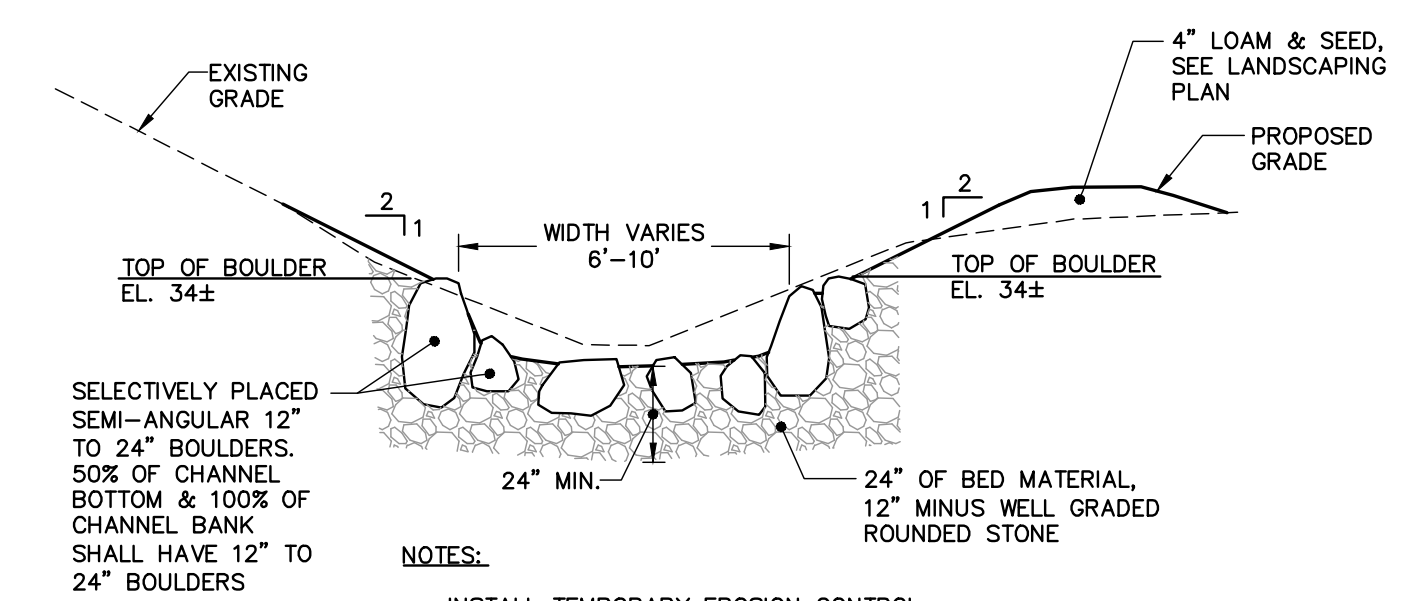


**NOTE:**

- INSTALL TEMPORARY EROSION CONTROL MATTING ON ALL SLOPES 2:1 OR GREATER OUTSIDE OF CHANNEL.
- INSTALL 12"-24" SEMI-ANGULAR BOULDERS OVER 8" OF 3" MINUS WELL GRADED CRUSHED STONE ON CHANNEL BANKS TO EL. 36 AT CASCADE.

**ROCKLAND AVE. OUTFALL CASCADE DETAIL\***

\*CROSS SECTION DETAIL PATH OF CHANNEL;  
APPLICABLE STA. 1+50 TO 1+65  
N.T.S.

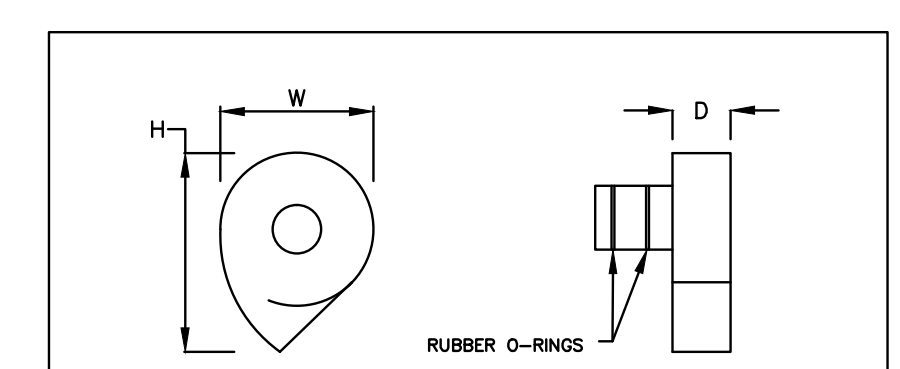


**NOTES:**

- INSTALL TEMPORARY EROSION CONTROL MATTING ON ALL SLOPES 2:1 OR GREATER OUTSIDE OF CHANNEL.

**ROCKLAND AVE. OUTFALL STREAM CHANNEL DETAIL\***

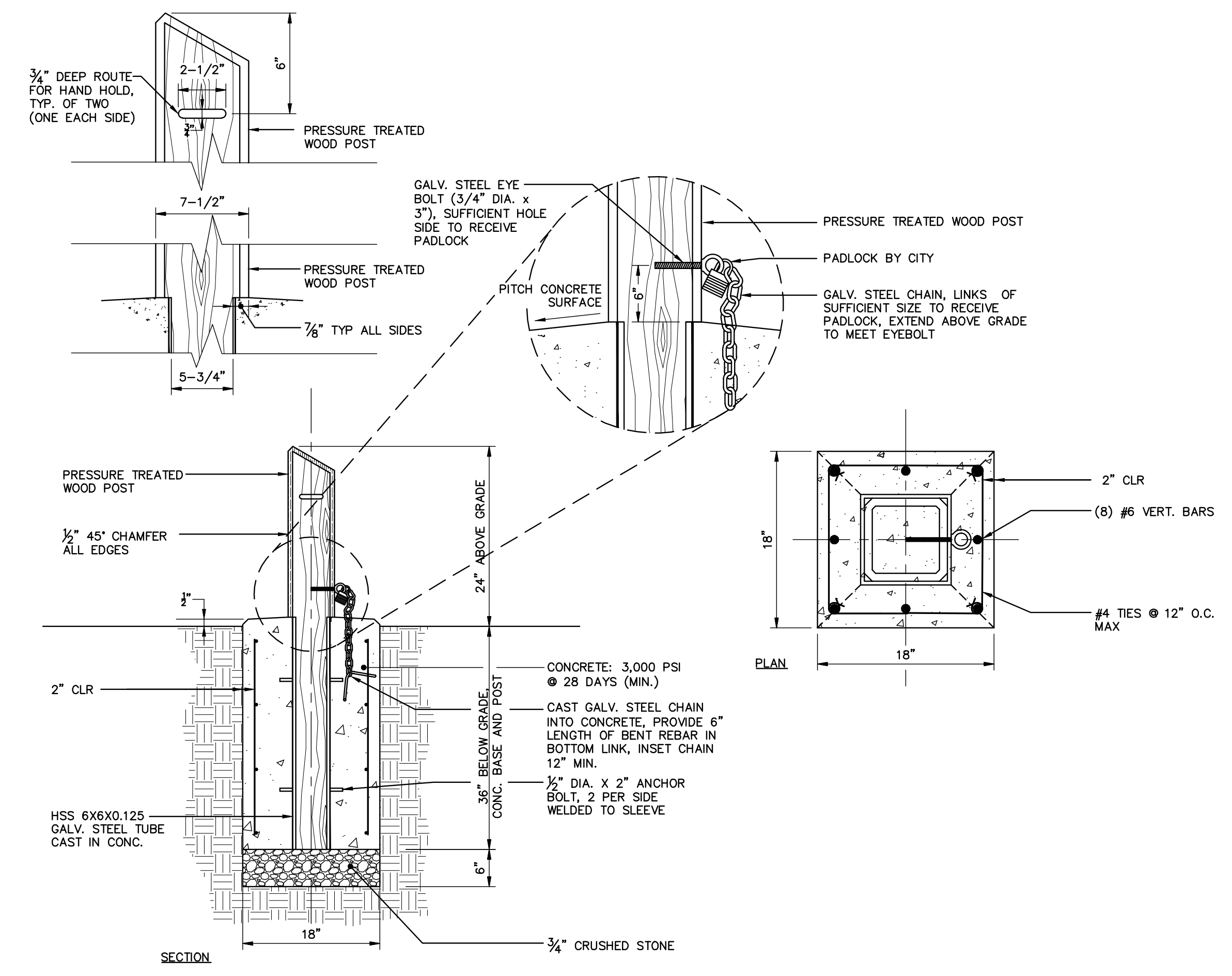
\*CROSS SECTION DETAIL ACROSS CHANNEL;  
APPLICABLE STA. 0+85 TO 1+50  
N.T.S.



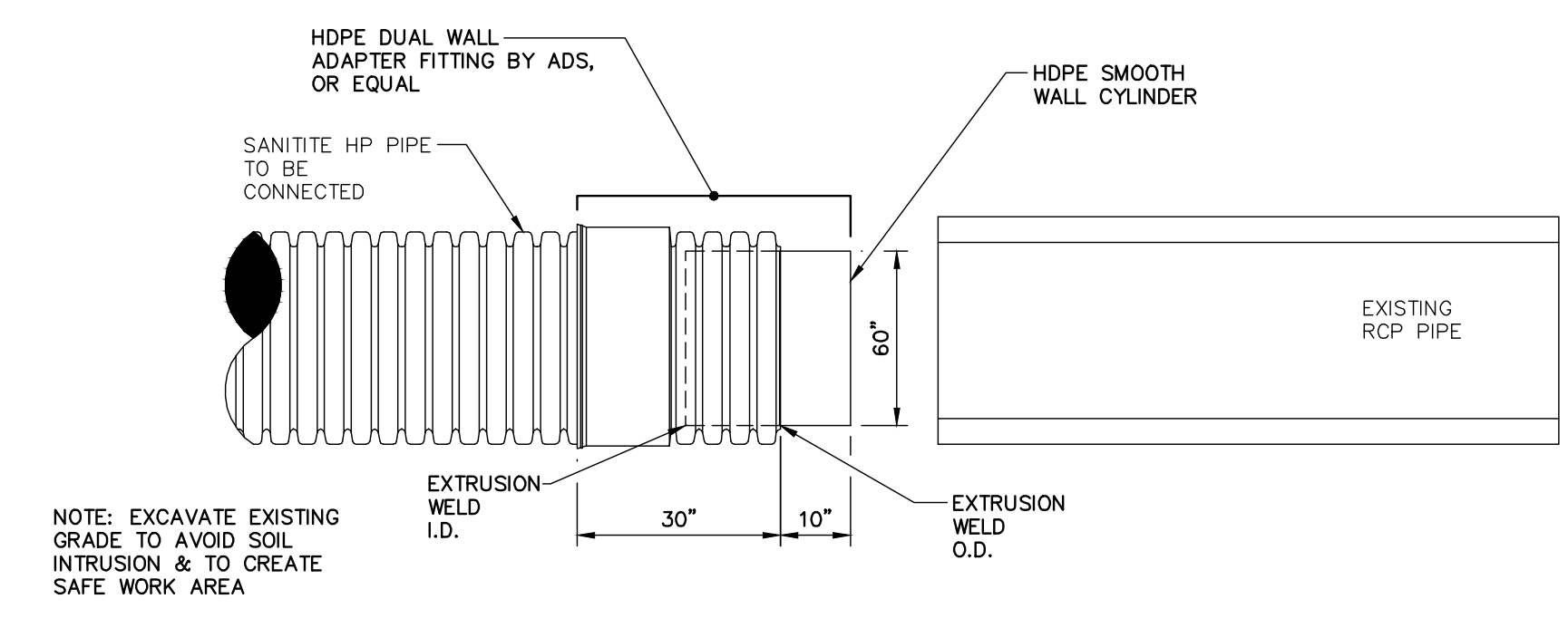
SIZE	FLUIDIC AMPS			
	17"x14"	14"x16"	17"x19"	20"x23"
WIDTH (W)	1'-3 3/4"	1'-4 3/4"	1'-7 1/2"	1'-11 1/2"
HEIGHT (H)	1'-0"	1'-2 1/4"	1'-4 3/4"	1'-8 1/4"
DEPTH (D)	4"	4 1/2"	5 1/2"	6 1/2"

\*Box inlets involve some individual custom sizing. Overall dimensions are always slightly smaller than the outlet diameter specified. Sleeve dimensions are as follows: sleeve length = sleeve diameter = outlet pipe I.D. minus 1 inch.

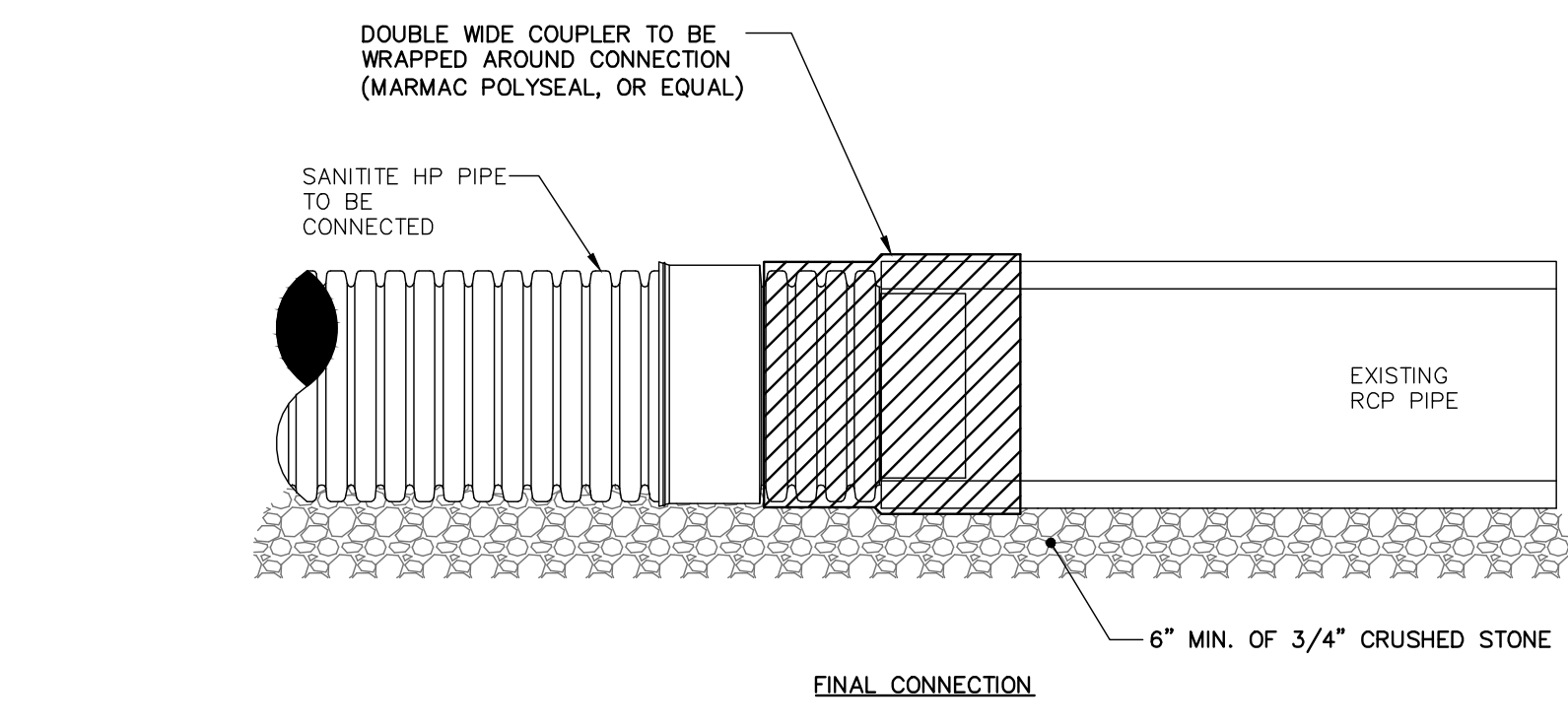
PROVIDED BY CITY OF PORTLAND FOR REFERENCE IN HYDROBRAKE REMOVAL.  
**HYDROBRAKE DETAIL**  
N.T.S.



**REMOVABLE WOOD BOLLARD**  
N.T.S.



**CONNECTION PREPARATION**



**FINAL CONNECTION**

**NOTES:**

- PIPE SHALL BE BACKFILLED PER PIPE INSTALLATION DETAIL.
- COUPLER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR CAN ELECT TO PROPOSE ALTERNATE CONNECTION METHODS BETWEEN TREATMENT UNIT AND EXISTING RCP PIPE IN LIEU OF SANITITE HP PIPE.

**RCP TO SANITITE PIPE CONNECTION**  
N.T.S.

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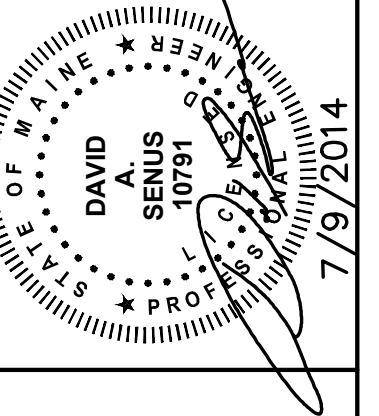


COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME: N/A  
DRAWING NAME: 225672.77 C20X 24X36.DWG  
FIELD BOOK USED: N/A

**REFERENCES:**

DESIGNED BY: BCM/JLS  
DRAWN BY: BCM  
CHECKED BY: DAS  
SCALE: AS NOTED  
DATE: JULY 9, 2014



ROCKLAND AVENUE OUTFALL

SITE DETAILS - 3

CITY OF PORTLAND, MAINE  
PUBLIC SERVICES DEPARTMENT  
ENGINEERING SECTION



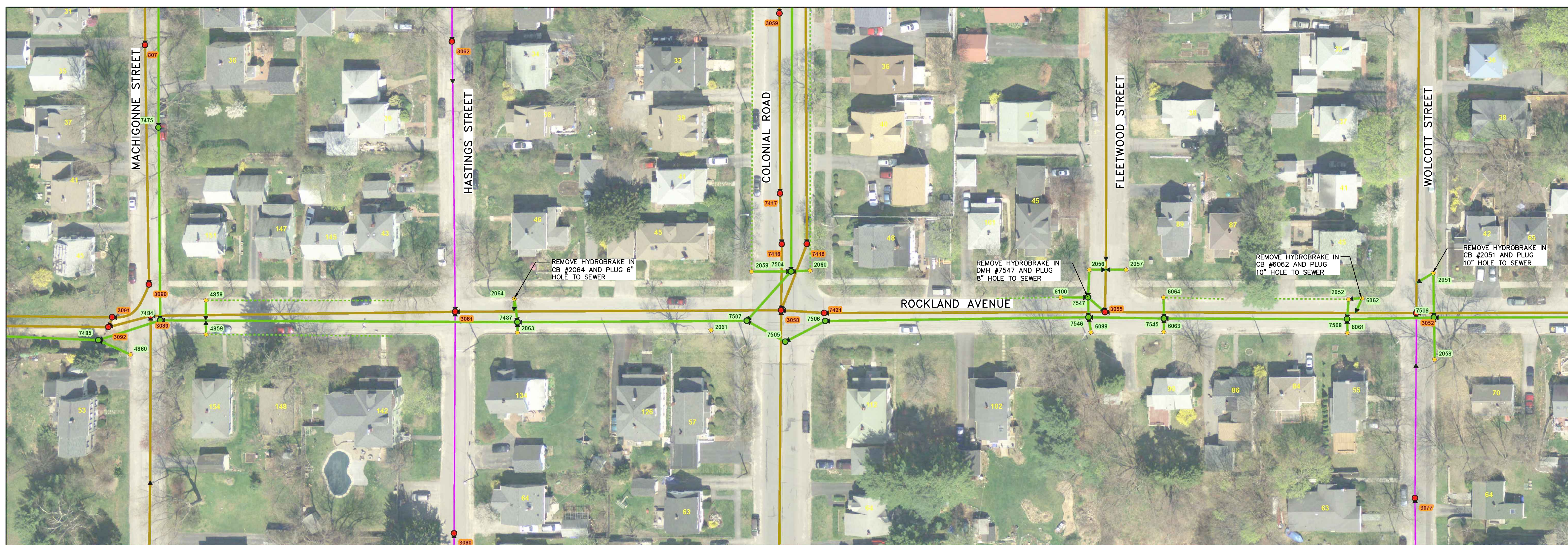
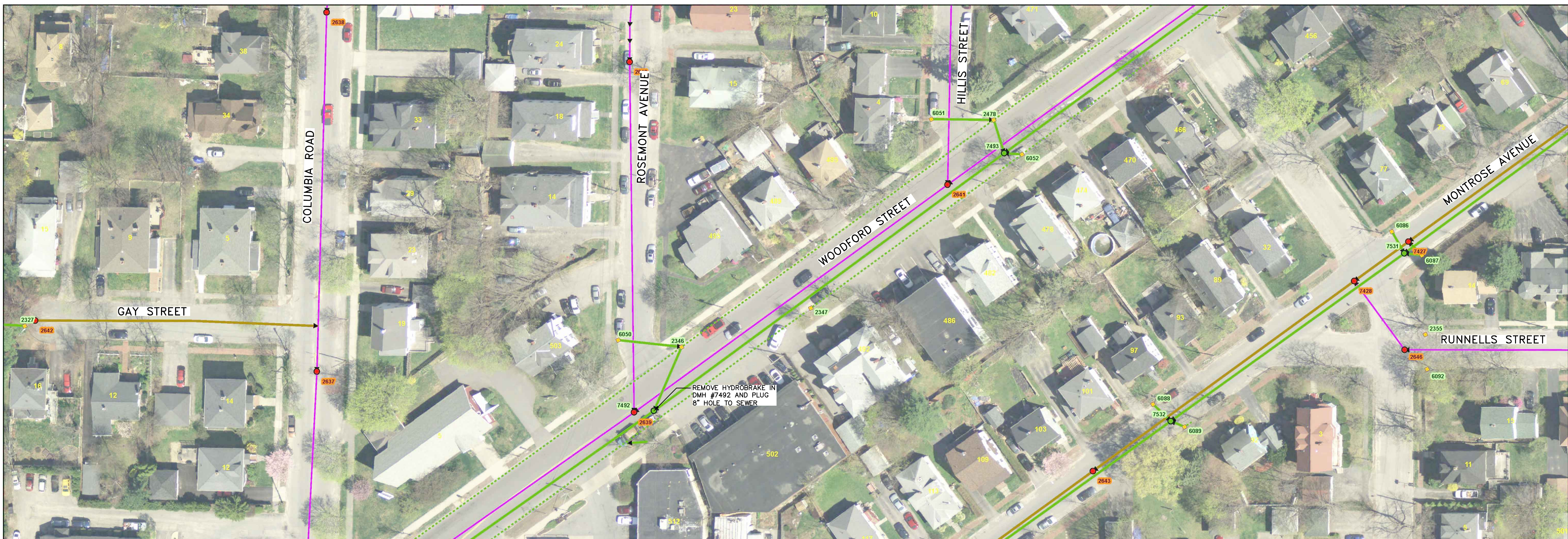
SHEET # 7 OF 8

PLAN NUMBER C-302

\\PORTLAND\Projects\225672.77\_C20X\_24X36.dwg Jul 09, 2014 - 3:15pm



\\PORTLAND\Projects\225672 - Portland-Cen Eng Svcs\Wp\77 Capital Pond Ph II\Drawings\Design Drawings\225672.77 C20X 24x36.dwg, Jul 09, 2014 - 3:15pm



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COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME:  
 N/A  
 DRAWING NAME:  
 225672.77 C20X 24x36.DWG  
 FIELD BOOK USED:  
 N/A

REFERENCES:  
 -Drawings1\_2012.dwg

DESIGNED BY:	BCM/JLS
DRAWN BY:	BCM
CHECKED BY:	DAS
SCALE:	N.T.S.
DATE:	JULY 9, 2014

ROCKLAND AVENUE OUTFALL  
 HYDROBRAKE REMOVAL  
 LOCATION PLAN

CITY OF PORTLAND, MAINE  
 PUBLIC SERVICES DEPARTMENT  
 ENGINEERING SECTION



SHEET #  
 8 OF 8  
 PLAN NUMBER  
 FIG. 1

NOTE: PROVIDED BY CITY OF PORTLAND