THRUST BLOCK PLACEMENT AT TEE(S)

THRUST BLOCK PLACEMENT AT BEND(S)

SIZE REQUIREMENTS FOR CONCRETE THRUST BLOCKS					
		BEARING ON UNDISTURBED SOIL (SQUARE FT.)			
FITTINGS		90° BENDS	45° BENDS	TEES & PLUGS	HYDRANTS
PIPE SIZE	4"	2.0	1.0	1.0	N/A
	6"	3.0	2.0	2.0	6.0
	8"	5.0	3.0	4.0	N/A

THRUST BLOCK SCHEDULE

1 C3.0 THRUST BLOCK DETAILS

NOT TO SCALE

NOTES:
ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.

2 C3.0 STANDARD CORPORATION STOP DETAIL

NOT TO SCALE

NOTES:
1. ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.
2. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
3. VALVE BOX SHOULD NOT CONTACT WATER MAIN OR VALVE.
4. CONCRETE PROTECTOR RING SHALL BE USED IN ALL UNPAVED AREAS.

3 C3.0 VALVE AND VALVE BOX INSTALLATION DETAIL

NOT TO SCALE

NOTES:
1. ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.

1 C3.0

4 C3.0 STANDARD TAPPING SLEEVE DETAIL

NOT TO SCALE

NOTE:
1. INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. EMPTY AND REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE AND REPLACE AS NEEDED.
3. CONTRACTOR SHALL INSPECT CATCH BASIN PROTECTION AFTER EACH MAJOR STORM EVENT AND CLEAN SILT AS NEEDED.
4. ROUND SILT-SACKS SHALL BE USED FOR ROUND CATCH BASIN GRATES.

5 C4.0 CATCH BASIN PROTECTION DETAIL

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 PIPE TRENCH INSTALLATION
NOT TO SCALE

6 C3.0 TYPICAL ROAD REPAIR DETAIL

NOT TO SCALE

7 C3.0 TYPICAL PIPE TRENCHING DETAIL

NOT TO SCALE

BRICKS TO BE USED:

NEW CONSTRUCTION:
4"x8" PINE HALL PATHWAY PAVER BRICK; MFG. BY PINE HALL BRICK CO., MADISON, NORTH CAROLINA. LACHANCE ITEM # 193623, PINE HALL PATHWAY PAVER BRICK.

REPAIR /MAINTENANCE TO EXISTING BRICK SIDEWALKS: VERMONT PAVER; SUPPLIED BY GAGNE AND SONS. SPECIFICATION NUMBER: "VERMONT BACKER BRICK", ITEM NUMBER # VBBB

8 C3.0 BRICK SIDEWALK WITH BITUMINOUS BASE

NOT TO SCALE

9 C3.0 GRANITE CURB INSTALLATION DETAIL

NOT TO SCALE

ISSUED FOR PERMITTING - NOT FOR CONSTRUCTION

Date: 04/20/16

WALSH ENGINEERING ASSOCIATES, INC.
One Karen Dr., Suite 2A | Westbrook, Maine 04092
ph: 207.553.9898 | www.walsh-eng.com

Copyright © 2015

STATE OF MAINE
SILAS W. CANAVAN
No. 12639
LICENSED PROFESSIONAL ENGINEER
11/3/15

East End Lofts
273 Congress Street
Portland, Maine

Clean and Simple Living, Inc.
315 16th Street
Boulder, CO 80302

Rev.	Date	Description	Drawn	Check
1	11/3/15	Issued for Level III Site Plan Review	SWC	NGC

Sheet Title:
Details

Job No.:	310
Date:	Nov. 3, 2015
Scale:	N.T.S.
Drawn:	SWC
Checked:	NGC

Sheet No.: C3.0

P:\310 - 273 Congress Street - Portland\CADD\10 - Details.dwg plot date: 11/3/2015 8:48 AM