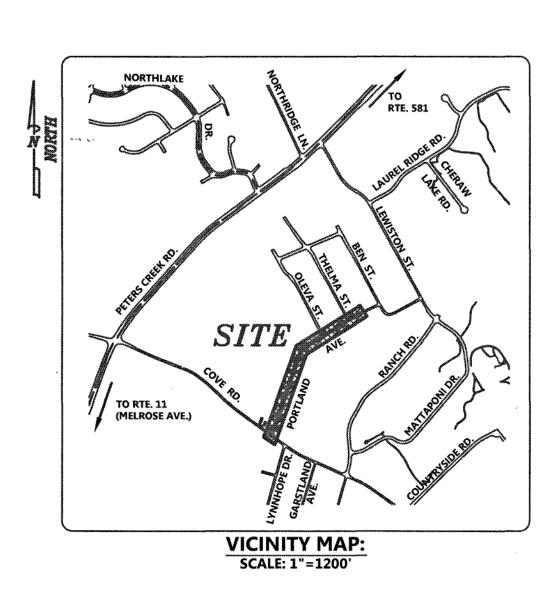
PORTLAND AVENUE DRAINAGE IMPROVEMENTS

CITY OF ROANOKE, VIRGINIA

DISTUR	BED AREA PER INLET
INLET	DISTURBED AREA
B1	879 SF
B2	3,634 SF
C1	2,062 SF
C2	6,908 SF
E1	2,653 SF
E2	3,627 SF
11	6,908 SF
12	6,145 SF
J1	56 SF
J2	62 SF
M1	79 SF
М2	61 SF



SHEET INDEX SHEET # | SHEET TITLE COVER SHEET EXISTING CONDITION AND DEMOLITION PLAN EXISTING CONDITION AND DEMOLITION PLAN C1-03 EXISTING CONDITION AND DEMOLITION PLAN EXISTING CONDITION AND DEMOLITION PLAN STORM PLAN & PROFILE STORM PLAN & PROFILE STORM PLAN & PROFILE STORM PLAN & PROFILE STORM PROFILES C3-05 STORM DETAILS SITE DETAILS SANITARY SEWER PLAN & PROFILE SANITARY SEWER PLAN & PROFILE C4-03 SANITARY SEWER PLAN & PROFILE C4-04 WATERLINE PROFILES WATERLINE PROFILES C4-05 C4-06 UTILITY DETAILS C4-07 UTILITY DETAILS EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES:

1. OWNER REPRESENTATIVE: PRISCILLA CYGELNIK

PRISCILLA CYGIELNIK
CITY OF ROANOKE — ENGINEERING DEPARTMENT
215 CHURCH AVENUE, S.W. — ROOM 350
POANOKE VA 24011

- 2. ALL WORK PROPOSED IN THESE PLANS IS TO BE DONE WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS OBTAINED.
- 3. NO GRAVES, STRUCTURES, OR OBJECTS MARKING A PLACE OF HUMAN BURIAL WERE FOUND AT TIME OF SURVEY.
- 4. THE SUBJECT LANDS DEPICTED HEREON DO NOT LIE WITHIN A F.E.M.A. DESIGNATED 100—YEAR FLOOD HAZARD ZONE. THE SUBJECT LANDS LIE WITHIN "UNSHADED ZONE X OTHER AREAS", AS DEFINED BY F.E.M.A. & AS SHOWN ON F.I.R.M. MAP NO. 51161C0153G, EFFECTIVE DATE OF SEPTEMBER 28, 2007. THIS DETERMINATION HAS BEEN MADE BY GRAPHIC METHODS ONLY. NO ELEVATION STUDY HAS BEEN PERFORMED AS A PART OF THIS PROJECT.
- TOTAL DISTURBED AREA: ±35,497 SF (0.81 AC.)
- 6. A PRE-CONSTRUCTION MEETING WITH THE CITY WILL BE HELD PRIOR TO CONSTRUCTION.
- 7. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH CITY OF ROANOKE STANDARDS AND
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET COMPLIANCE REQUIREMENTS WITH SECTION 59.1-406, ET SEQ. OF THE CODE OF VIRGINIA (OVERHEAD HIGH VOLTAGE LINES SAFETY ACT).
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS BEFORE
- BEGINNING CONSTRUCTION.
- 10. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN.
- 11. UNLESS SHOWN OR SPECIFIED OTHERWISE, METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH <u>VDOT ROAD AND BRIDGE STANDARDS</u> AND <u>VDOT ROAD AND BRIDGE SPECIFICATIONS</u>
 LATEST EDITIONS. SHOULD A LOCALITY HAVE SPECIFICATIONS OF ITS OWN, THE MORE STRINGENT SHALL APPLY.
- 12. ALL ACTIVITIES IN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO <u>VDOT WORK AREA PROTECTION</u>
 <u>MANUAL</u> (MOST RECENT EDITION)
- 13. BY THE END OF CONSTRUCTION, PROVIDE LEGIBLE, SURVEYED MARK-UPS OF AS-BUILT SITE CONSTRUCTION ITEMS ON SITE PLANS TO THE OWNER FOR PREPARATION OF SITE RECORD
- 14. CONTRACTOR SHALL ENSURE THAT EGRESS FOR FIRE ACCESS FOR THE SITE IS MAINTAINED AT
- 15. MAINTAIN EMERGENCY SERVICE AND DELIVERY VEHICLE ACCESS TO THE SURROUNDING AREA
- AND COORDINATE THIS WITH THE OWNER.

16. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND

- 17. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE
- OWNER'S REPRESENTATIVE, WHO SHALL PROMPTLY CORRECT SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR WITHOUT DIRECTION AFTER HIS DISCOVERY OF SUCH INCONSISTENCIES OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- 18. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN THAT MEETS ALL VDOT AND CITY OF ROANOKE STANDARDS AND REQUIREMENTS.

LEGEND:

LEGEND:			
***************************************	PROPERTY LINE	\otimes_{GV}	EXISTING GAS VALVE
	EXISTING 1' CONTOURS	\square_{GM}	EXISTING GAS METER
(20)	PROPOSED 1' CONTOURS	$\dot{\phi}_{LP}$	EXISTING LIGHT POLE
× 90.56	EXISTING SPOT ELEVATION	(*)	EXISTING WELL
x 90.56	PROPOSED SPOT ELEVATION	•	DRILL HOLE
90.56	PROPOSED TOP CURB ELEVATION PROPOSED BOTTOM CURB ELEVATION	- О -	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER	\(\rightarrow \)	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER	₹	PROPOSED FIRE HYDRANT LABEL
	EXISTING WATERLINE	\otimes_{WV}	EXISTING WATER VALVE
W	PROPOSED WATERLINE	$\otimes \triangleleft$	PROPOSED WATER VALVE AND REDUCER
=======================================	EXISTING STORM SEWER	\square_{WM}	EXISTING WATER METER
	PROPOSED STORM SEWER		PROPOSED WATER METER
- III	EXISTING EDGE OF PAVEMENT	o _{co}	EXISTING SEWER CLEANOUT
SEE PAVEMENT LEGEND FOR TYPE	PROPOSED PAVEMENT	oSS-#	PROPOSED SEWER CLEANOUT
///////////////////////////////////////	EXISTING BUILDING	O_{SMH}	EXISTING SEWER MANHOLE
	PROPOSED BUILDING	#X>	PROPOSED SAN. SEW. STRUCTURE LABEL
	EXISTING OVERHEAD ELECTRIC	X#	PROPOSED STRM. SEW STRUCTURE LABEL
	EXISTING BURIED ELECTRIC	6	EXISTING SHRUB
TV	EXISTING BURIED CABLE TV LINE		EXISTING TREE
G	EXISTING GAS LINE	(+)	PROPOSED TREE
TEL	EXISTING BURIED TELEPHONE LINE		EXISTING SIGN
·······ig.······ig.	EXISTING FENCE LINE		PROPOSED SIGN
·······	EXISTING TREELINE	$oldsymbol{\mathfrak{O}}_{TP}$	BORE HOLE/TEST PIT
	BENCHMARK LOCATION	Δ	CONTROL POINT
-^	TO BE REMOVED	o _{IRF}	IRON ROD FOUND
OTELE PED	EXISTING TELEPHONE PEDESTAL	° IRS	IRON ROD SET

PROPERTY CORNER

ABBREVIATION LEGEND:

0	AT	LB.	POUND
A/C	AIR CONDITIONER	M	METER COURSE CONTRACTOR
AC.	ACRE(S)	M.D.L.	MINIMUM BUILDING LINE
A.L.	APPROXIMATE LUCATION	MAG.	MADISERIAL
ALT.	ALIEKNAIE	MR.	MARINOM MARINOM
APPROX. AVG. B.M.	APPROXIMATE	MEH	MANLOUE
AVG.	RENOUMARIA	MI.	MILE
BC.M.	BULLOUMAUN	MIN.	AAINIKAI IM
BLVD	BOLLEVADD	MON.	MONIMENT
BLVD.	RASEMENT	MTL.	METAL
BW	BOTTOM OF WALL	N.I.C.	NOT IN CONTRACT
C.F.	CUBIC FFFT	N.S.	NORFOLK & SOUTHERN
C.I.	CURB INLET	N.T.S.	NOT TO SCALE
C.F. C.I. C.M.U C.V. C.Y. CAL. CATV CHD	CONCRETE MASONRY UNIT	N/F	NOW OR FORMERLY
C.V.	CHECK VALVE	NBL	NORTHBOUND LANE
C.Y.	CUBIC YARD	NO. /#	NUMBER
CAL.	CALIPER	NRV "	NEW RIVER VALLEY
CATV	CABLE TELEVISION	O.D.	OUTSIDE DIAMETER
CHD	CHORD	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CMP	CORRUGATED METAL PIPE	OH	OVERHEAD
co	CLEAN-OUT	OHE	OVERHEAD ELECTRIC
CO.	COUNTY	P.B.	PLAT 800K
CONC. CRK. D.B. D.E. D.I. D.I.P. D.S. DECID. DEG. DET. DFC DI DIA. DIST. DR.	AT AIR CONDITIONER ACRE(S) APPROXIMATE LOCATION ALTERNATE APPROXIMATE AVERAGE BENCHMARK BOTTOM OF CURB BOULEVARD BASEMENT BOTTOM OF WALL CUBIC FEET CURB INLET CONCRETE MASONRY UNIT CHECK VALVE CUBIC YARD CALIPER CABLE TELEVISION CHORD CORRUGATED METAL PIPE CLEAN—OUT COUNTY CONCRETE CREEK DEED BOOK DRAINAGE EASEMENT DROP INLET DUCTILE IRON PIPE DOWN SPOUT DECIDUOUS DEGREES DETAIL DRAINFIELD CORNER DROP INLET DIAMETER DISTRICT DRIVE DRAWING DWELLING EDGE OF GRAVEL EDGE OF PAVEMENT EACH EASTBOUND LANE ELEVATION EDGE OF WATER EASEMENT EVERGREEN EXISTING EXTENSION FEDERAL EMERGENCY MANAGEMENT AGENCY FIRE HYDRANT FLOOD INSURANCE RATE MAP FLOW LINE FINISH FLOOR FOUND FRAME	P.U.	PUBLIC UTILITY AND DRAWLOS SACRUST
CKK.	CKEEK	P.U. & D.E.	PUBLIC UTILITY EASEMENT
ນ. ວ .	DEALLACE EASEMENT	r.u.E.	POLYETHY ENE
D.E.	DRAD IN ET	DED.	DEDECTAL DESCRIPTION OF THE PROPERTY OF THE PR
U.L.B	DITOTILE IDON DIDE	PC.	PACE
กร	DOUBLE IRON FIFE	PROP	PROPOSED
DECID.	DECIDIOUS	PSI.	POUNDS PER SOUARE INCH
DEG.	DEGREES	PVC	POLYVINYI CHI ORIDE
DET.	DETAIL	PVMT	PAVEMENT
DFC	DRAINFIELD CORNER	R	RADIUS
DI	DROP INLET	R.R.	RAILROAD
DIA.	DIAMETER	R/W	RIGHT-OF-WAY
DIST.	DISTRICT	RCP	REINFORCED CONCRETE PIPE
DR.	DRIVE	RD.	ROAD
DWG	DRAWING	REF.	REFERENCE
DWLG	DWELLING	REQ'D	REQUIRED
E.G.	EDGE OF GRAVEL	RET.	RETAINING
E.P.	EDGE OF PAVEMENT	REV.	REVISION
EA.	EACH	RTE.	ROUTE
EBL	EASTBOUND LANE	RWY.	RAILWAY
ELEV.	ELEVATION	S.D.	SIUKM DRAIN
EOW ESMT.	EDGE OF WATER	SDL	STORIL DISTANCE LEFT
EVG.	LASEMEN!	SDMH	STORM DRAIN MANHOLE
EXIST.	EVEKGREEN	SDR	SIGNI DISTANCE RIGHT
EXT.	EXICION	S.F.	SOUTHPOUND LANE
F.E.M.A.	EXICION CHEDOCNICA MANAGEMENT VOCATA	SBL	SCHEUIRE
F.H.	FIDE HUNDANT	SCH	CHEFT
F.I.R.M.	FLOOD INSURANCE PATE MAD	SDEC	SPECIFICATION
F/L	FLOW HAS NAME WAS	SPEU.	SEPTIC TANK
FF	FINISH FLOOR	SSEW	SANITARY SEWER
FND	FOUND	SSMH	SANITARY SEWER MANHOLE
FR	FRAME	ST.	STREET
FT.	FEET	STA.	STATION
G.M.	GAS METER	STD.	STANDARD
G.V.	GATE VALVE	STY.	STORY
GNI	GAY AND NEEL, INC.	SWME	STORMWATER MANAGEMENT EASEMENT
GPM	GALLONS PER MINUTE	SWMF	STORMWATER MANAGEMENT FACILITY
GRAV.	GRAVEL	TC	TOP OF CURB/CONCRETE
GRD	GROUND	TCP	TERRA COTTA PIPE
HP_	HIGH POINT	TEL.	TELEPHONE
H.U.D.	HOUSING AND URBAN DEVELOPMENT	TOB	TOP OF BANK
H/C	HANDICAPPED	TOS	TOP OF SLOPE
HCR	HANDICAPPED RAMP	TW	TOP OF WALL
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TYP.	TYPICAL
HR	HANDRAIL	U.G.	UNDERGROUND
HW	HEADWALL	U.P.	UTILITY POLE
HYD.	HYDRANT	U.S.	UNITED STATES
I.D.	INSIDE DIAMETER	VA.	VIRGINIA
IN. INST.	INCH INCTRIBUTENT	VDOT VESCH	VIRGINIA DEPARTMENT OF TRANSPORTATION
	INSTRUMENT INTERSECTION	W.B.	VIRGINIA EROSION AND SEDIMENT CONTROL HAND WILL BOOK
INT.			

CITY OF ROANOKE CONSTRUCTION NOTES:

FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS OR THE ISSUANCE OF A STOP WORK ORDER.

CONSTRUCTION PROCEDURE REQUIREMENTS

- 1. RIGHT-OF-WAY EXCAVATION PERMIT PRIOR TO THE COMMENCEMENT OF ANY DIGGING, ALTERATION OR CONSTRUCTION WITHIN THE PUBLIC RIGHT—OF—WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A RIGHT—OF—WAY EXCAVATION PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.
- LAND DISTURBANCE PERMIT AN APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR ANY BORROW/FILL SITES ASSOCIATED WITH THE PROJECT MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT.
- 3. PLANS AND PERMITS A COPY OF THE PLANS AS APPROVED BY THE CITY (SIGNED BY THE PROFER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.
- 4. LOCATION OF UTILITIES THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- 5. CONSTRUCTION ENTRANCE THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF CONSTRUCTION ENTRANCE SHALL BE AS SHOWN ON THE PLANS.
- 6. STREETS TO REMAIN CLEAN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DUST, AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.
- 7. BARRICADES/DITCHES THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.
- 8. SEWER AND PAVEMENT REPLACEMENT CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE AND THE WESTERN VIRGINIA WATER AUTHORITY
- 9. APPROVED PLANS/CONSTRUCTION CHANGES ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE EROSION AND SEDIMENT CONTROL AGENT PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.
- 10. FINAL ACCEPTANCE/CITY THE OWNER OR DEVELOPER SHALL FURNISH THE CITY OF ROANOKE'S PLANNING BUILDING AND DEVELOPMENT DEPARTMENT WITH A FIELD SURVEYED FINAL CORRECT SET OF AS—BUILT PLANS OF THE NEWLY CONSTRUCTED STORM DRAIN AND/OR STORMWATER MANAGEMENT FACILITIES PRIOR TO FINAL ACCEPTANCE AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE CITY. AS—BUILT PLANS SHALL BE PROVIDED IN THE STATE PLANE VIRGINIA SOUTH COORDINATE SYSTEM, NAD 1983, FIPS 4502 FEET, US SURVEY FEET, DATUM NA 83, IN THE FORM OF 1 PAPER COPY AND 1 DIGITAL AUTOCAD FILE.

GENERAL GRADING NOTES:

- 1. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE TO BE USED IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL NARRATIVE APPROVED FOR THIS PLAN. THE NARRATIVE INCLUDES ADDITIONAL MEASURES SUCH AS DUST CONTROL, TEMPORARY SEEDING, PERMANENT SEEDING AND MULCHING.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE FROM ALL AREAS OF THE SITE.
- 3. EXCAVATION IS UNCLASSIFIED.

GENERAL UTILITY NOTES:

- 1. ALL WATER AND SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION, AS NECESSARY TO MEET THE SPECIFIC REQUIREMENTS OF THE WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR ALL WATERLINE RELOCATIONS.
- 3. IF WATERLINE IS RELOCATED BELOW A STORM DRAIN, THEN CONCRETE PIERS SHALL BE PROVIDED.
- 4. CONTRACTOR SHALL COORDINATE ANY GAS LINE RELOCATIONS WITH THE UTILITY

ENGINEERING & LANDSCAP

1260 Radford Street

ristiansburg, Virginia 2

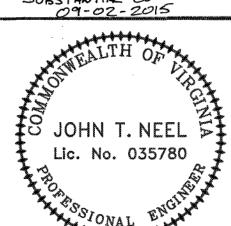
one: (540) 381-6011

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ORTLAND AVENUE
NAGE IMPROVEMENT

CHARLES CRUSH
AS-BUILTS
SUBSTANTIAL COMPLETION



NO. COMMENTS DATE

Materline and Sanitary 10/20/2014

WWWA COMMENTS 10/23/2014

WWWA COMMENTS 10/23/2014

PROJECT TEAM

JOHN T. NEEL, PE

Matthew P. Tomlinson, PE

SEC, MBL

ISSUE DATE

S SHEET, 10/23/2014 11:05:18

SHEET NUMBER

09/30/2014

2521.0

COVER SHEET

C0-01

GNI JOB NO.

SHEET TITLE