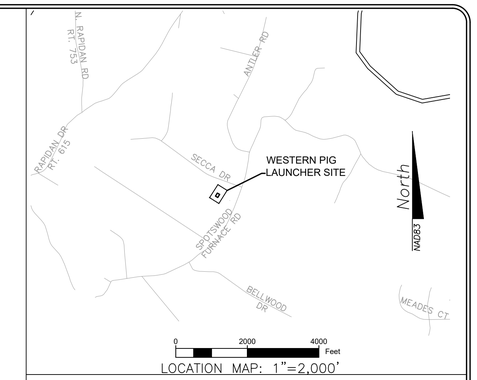
WEST PIG INSERTION FACILITY SPECIAL USE PERMIT
15213 SPOTSWOOD FURNACE ROAD
TAX MAP NUMBER 4-10-6
SPOTSYLVANIA COUNTY, VIRGINIA

CHANCELLOR VOTING DISTRICT



LOCATION MAP: 1"=2,000'

Columbia Gas® of Virginia
A NiSource Company

SITE DATA

APPLICANT NAME:	COLUMBIA GAS OF VIRGINIA, INC.
ADDRESS:	1809 COYOTE DRIVE
	CHESTER, VA 23836
REPRESENTATIVE:	KAL ABED
EMAIL:	KABED@NISOURCE.COM
PHONE NO.:	(804) 768-6444
FAX NO.:	(804) 690-4286
PLAN PREPARER NAME:	TOWNES SITE ENGINEERING
ADDRESS:	9850 LORI ROAD, SUITE 201
	CHESTERFIELD, VA 23832
REPRESENTATIVE:	BRIAN MITCHELL
EMAIL:	BMITCHELL@CCTOWNES.COM
PHONE NO.:	(804) 748-9011
FAX NO.:	(804) 748-2590

TAX MAP #: 4-10-6
PARCEL ZONING: RU
OVERLAY DISTRICT: RESERVOIR PROTECTION; RIVER PROTECTION
PROPOSED USE OF FACILITY: PIPELINE INSPECTION AND MAINTENANCE
LOT AREA: 5.16 ACRES
SUP AREA (ACRES): 0.32 ACRES (SUP AREA = GDP AREA)
LAND DISTURBANCE: 0.32 ACRES
ADDRESS: 15213 SPOTSWOOD FURNACE ROAD
PROPERTY OWNER: SHIRLEY P JOSEPH
APPROXIMATE TRAFFIC INCREASE: 0.5 VEHICLES PER MONTH
12 DIGIT HUC CODE: 020801031105

IMPERVIOUS AREA INCREASE

PRE-DEVELOPMENT WEST		POST-DEVELOPMENT WEST	
PERVIOUS	0.32	PERVIOUS	0.11 ACRES
IMPERVIOUS	0 ACRES	IMPERVIOUS	0.21 ACRES
% IMPERVIOUS	0.0%	% IMPERVIOUS	66%

NOTES:
1. THERE ARE NO KNOWN HISTORIC FEATURES ASSOCIATED WITH THIS SITE
2. THERE ARE NO KNOWN PLACES OF BURIAL ASSOCIATED WITH THESE SITES
3. WATER QUALITY COMPLIANCE WILL BE MET THROUGH THE PURCHASE OF CREDITS FOR THIS SITE; 0.33 CREDITS.
4. SPECIAL USE PERMIT (SUP) AREA.
   SUP/GDP: 0.32 AC.
   LAND DISTURBANCE: 0.32 AC.

INDEX TO SHEETS

SHEET #	REVISION DATE	CONTENTS OF SHEET
C-1	06/04/2018	COVER SHEET
C-2	06/04/2018	OVERVIEW
C-3	06/04/2018	EXISTING CONDITIONS
C-4	06/04/2018	WESTERN PIG INSERTION SITE
C-5	06/04/2018	SUP AREA
C-6	06/04/2018	DETAILS
L-1	06/04/2018	LANDSCAPE SCHEMATIC

LEGEND

DIG WITH C.A.R.E. — KEEP VIRGINIA SAFE — Call Miss Utility @ 811

811 — Know what's below. Call before you dig.

MISS UTILITY DESIGN TICKET #_____

CONTRACTOR SHALL CALL MISS UTILITY AT 811 PRIOR TO THE START OF CONSTRUCTION

ROAD AND DRAINAGE

- CULVERT OR STORM SEWER (WITH STRUCTURE NO.)
- EXISTING CULVERT OR STORM SEWER PIPE
- DROP INLET & STRUCTURE NO.
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PAVED DITCH
- JUTE MESH OR SODDED DITCH
- EARTH DITCH - GRASS LINED
- 100 — EXISTING CONTOUR
- 100 — PROPOSED CONTOUR
- X 100.00 — EXISTING SPOT ELEVATIONS
- + 100.00 T/C 100.00 — PROPOSED SPOT ELEVATIONS (T/C - TOP OF CURB)
- #1 — BENCH MARK & REFERENCE NO.
- Stop — VDOT STANDARD STOP SIGN

SEWER

- SS — EXISTING SANITARY SEWER
- SS — PROPOSED SANITARY SEWER
- SANITARY SEWER SERVICE CONNECTIONS
- 3 120400.00 150500.00 — MANHOLE NO. W/ STATION OR COORDINATE LOCATION

WATER

- W — EXISTING WATERLINE
- W — PROPOSED WATERLINE
- PROPOSED WATERLINE SERVICE CONNECTION
- GATE VALVE
- FIRE HYDRANT ASSEMBLY
- TEE OR TAPPING SLEEVE
- CROSS
- BLIND CAP
- REDUCER
- BORE CROSSING

EROSION CONTROL

EROSION CONTROL DEVICES AS PER VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK

STD. & SPEC.	
CE 3.02	CONSTRUCTION ENTRANCE
SF 3.05	SILT FENCE
CIP 3.08	CULVERT INLET PROTECTION
DD 3.09	TEMPORARY DIVERSION DIKE
ST 3.13	TEMPORARY SEDIMENT TRAP
OP 3.18	OUTLET PROTECTION

Townes SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com
ASK US HOW

COMMONWEALTH OF VIRGINIA — BRIAN C. MITCHELL — Lic. No. 035724 — 06-04-18 — PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

COVER SHEET

REVISIONS	
DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE 4-13-18
SCALE N/A
PROJECT MANAGER BRIAN MITCHELL, P.E.
DESIGNED BY RPM
CHECKED BY
PROJ.# 20150279
SHEET # C - 1

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering

Townes
SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com

ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 035724
06-04-18
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

SITE PLAN OVERVIEW

REVISIONS

DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE
4-13-18

SCALE
1" = 300'

PROJECT MANAGER
BRIAN MITCHELL, P.E.

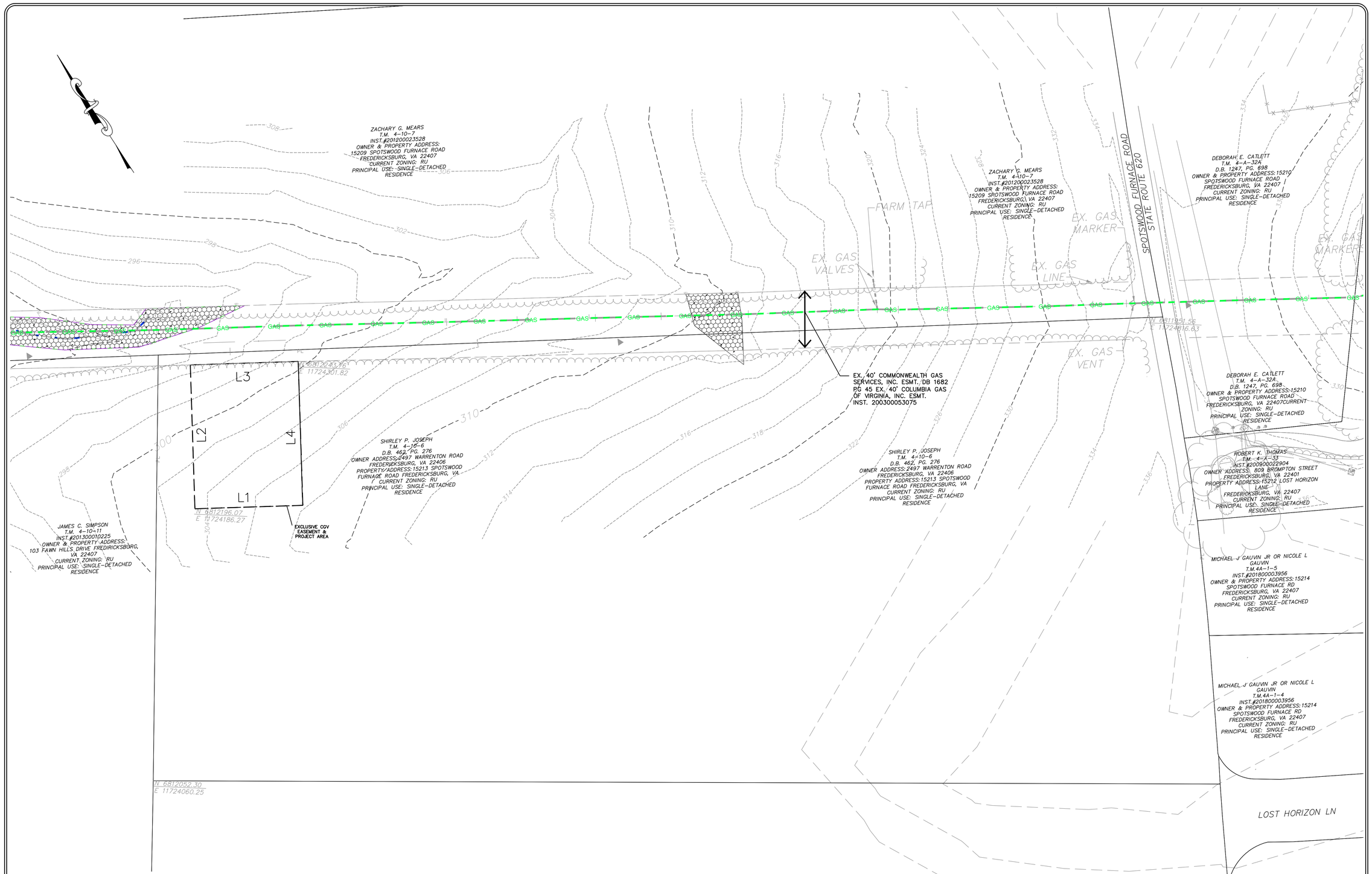
DESIGNED BY
RPM

CHECKED BY

PROJ.#
20150279

SHEET #
C - 2

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering



LINE	BEARING	DISTANCE
L1	N 59°18'03" W	75.00'
L2	N 30°41'57" E	100.00'
L3	S 59°18'03" E	75.00'
L4	S 30°41'57" W	100.00'
L5	S 23°26'49" E	100.00'

Townes
SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com

ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 035724
06-04-18
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

EXISTING CONDITIONS

REVISIONS

DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE
4-13-18

SCALE
1" = 20'

PROJECT MANAGER
BRIAN MITCHELL, P.E.

DESIGNED BY
RPM

CHECKED BY

PROJ.#
20150279

SHEET #
C - 3

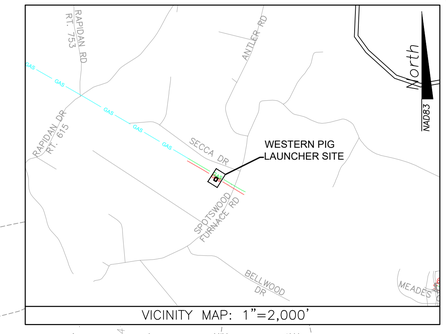
This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering

Columbia Gas® of Virginia
A NiSource Company

NOTES:
1. EXPECTED TRAFFIC INCREASE: 1 VEHICLE PER 2 MONTHS.
2. NO FLOOD PLAINS OR RESOURCE PROTECTION AREAS PRE LOCATED ON OR WITHIN THE VICINITY OF THIS SITE.

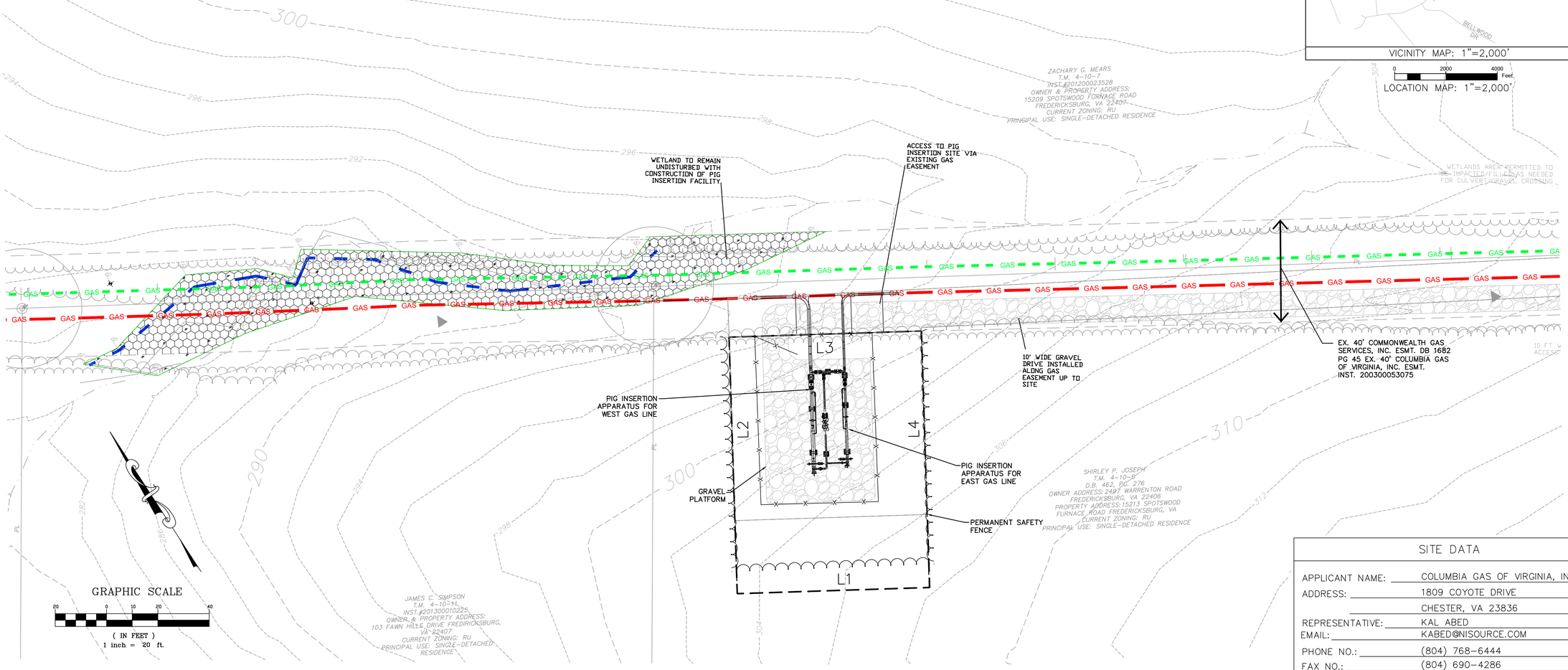
IMPERVIOUS AREA INCREASE

PRE-DEVELOPMENT WEST		POST-DEVELOPMENT WEST	
PERVIOUS	0.32	PERVIOUS	0.11 ACRES
IMPERVIOUS	0.0 ACRES	IMPERVIOUS	0.21 ACRES
% IMPERVIOUS	0.0%	% IMPERVIOUS	66%

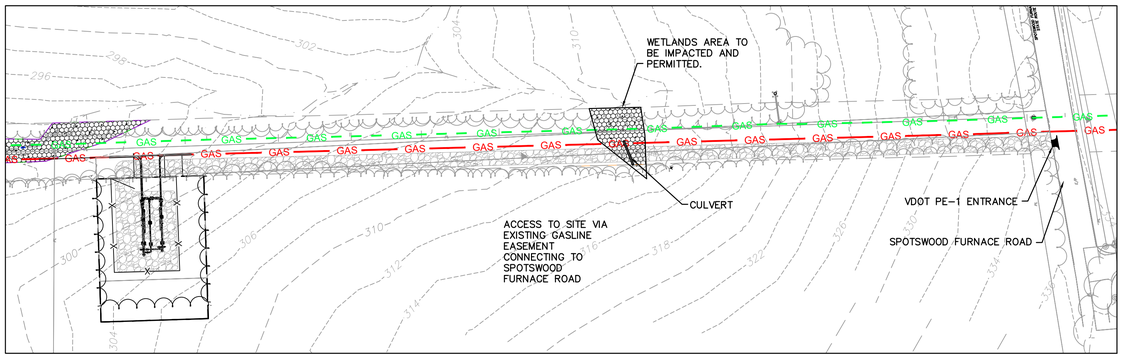


VICINITY MAP: 1"=2,000'

LOCATION MAP: 1"=2,000'



LINE	BEARING	DISTANCE
L1	N 59°18'03" W	75.00'
L2	N 30°41'57" E	100.00'
L3	S 59°18'03" E	75.00'
L4	S 30°41'57" W	100.00'
L5	S 23°26'49" E	100.00'



SITE ENTRANCE OVERVIEW
1"=50'

SITE DATA

APPLICANT NAME: COLUMBIA GAS OF VIRGINIA, INC.
ADDRESS: 1809 COYOTE DRIVE
CHESTER, VA 23836
REPRESENTATIVE: KAL ABED
EMAIL: KABED@NISOURCE.COM
PHONE NO.: (804) 768-6444
FAX NO.: (804) 690-4286
PLAN PREPARER NAME: TOWNES SITE ENGINEERING
ADDRESS: 9850 LORI ROAD, SUITE 201
CHESTERFIELD, VA 23832
REPRESENTATIVE: BRIAN MITCHELL
EMAIL: BMITCHELL@CCTOWNES.COM
PHONE NO.: (804) 748-9011
FAX NO.: (804) 748-2590

TAX MAP #: 4-10-6
PARCEL ZONING: RU
OVERLAY DISTRICT: RESERVOIR PROTECTION; RIVER PROTECTION
PROPOSED USE OF FACILITY: PIPELINE INSPECTION AND MAINTENANCE
LOT AREA: 5.16 ACRES
SUP AREA (ACRES):
LAND DISTURBANCE: 0.32 ACRES (SUP AREA = GDP AREA)
ADDRESS: 15213 SPOTSWOOD FURNACE ROAD
PROPERTY OWNER: SHIRLEY P JOSEPH
APPROXIMATE TRAFFIC INCREASE: 0.5 VEHICLES PER MONTH
12 DIGIT HUC CODE: 020801031105

Townes SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com

ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 035724
06-04-18
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

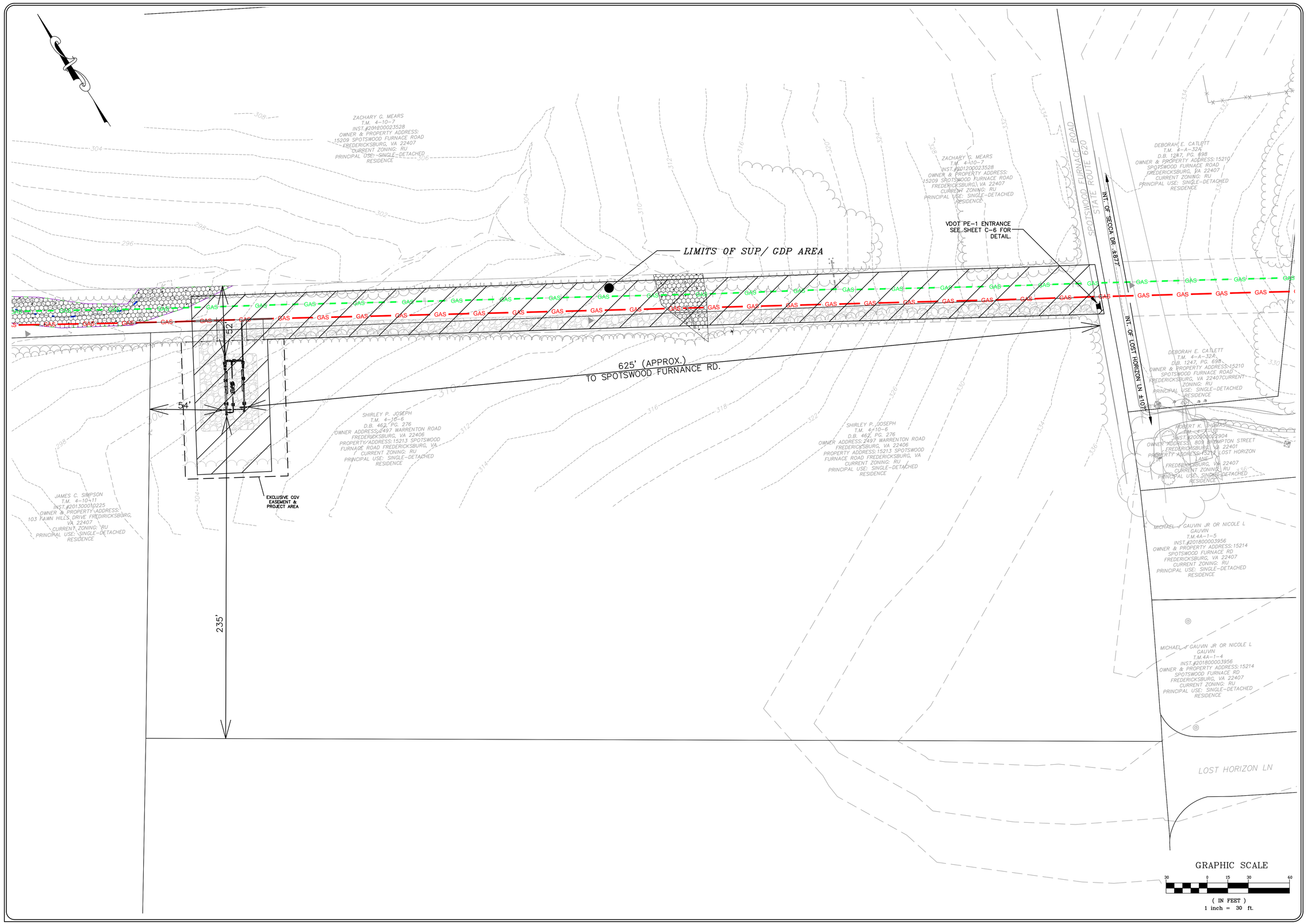
WESTERN PIG INSERTION SITE

REVISIONS

DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE 4-13-18
SCALE
PROJECT MANAGER BRIAN MITCHELL, P.E.
DESIGNED BY RPM
CHECKED BY
PROJ.# 20150279
SHEET # C - 4

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering



Townes
SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com
ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 035724
06-04-18
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

SUP AREA

REVISIONS

DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE
4-13-18

SCALE

PROJECT MANAGER
BRIAN MITCHELL, P.E.

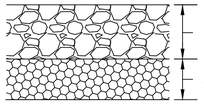
DESIGNED BY
RPM

CHECKED BY

PROJ.#
20150279

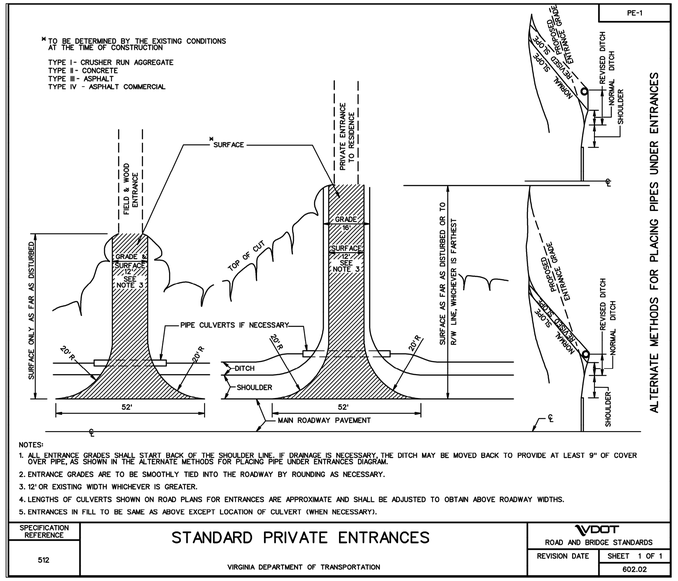
SHEET #
C - 5

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering



GRAVEL PAVEMENT DETAIL

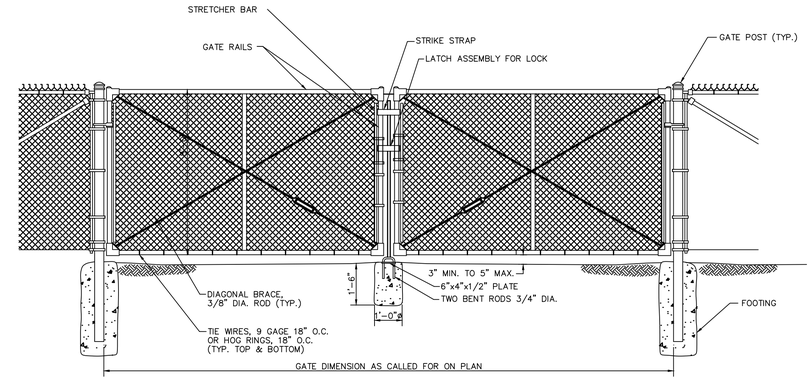
NO SCALE



NOTES:

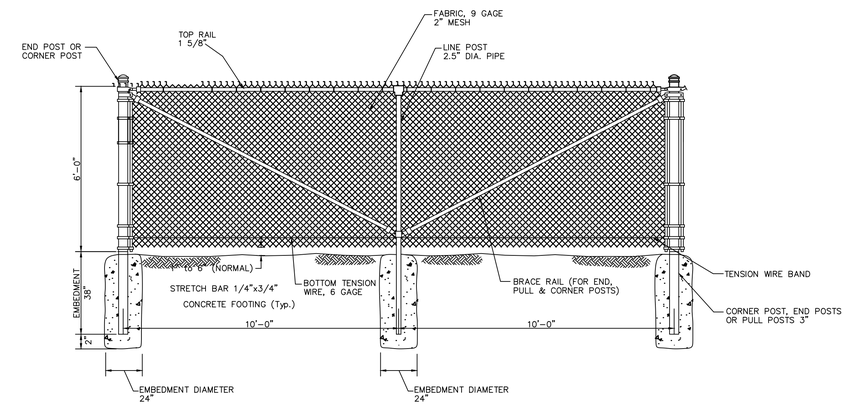
1. ALL ENTRANCE GRADES SHALL START BACK OF THE SHOULDER LINE. IF DRAINAGE IS NECESSARY, THE DITCH MAY BE MOVED BACK TO PROVIDE AT LEAST 9" OF COVER OVER PIPE, AS SHOWN IN THE ALTERNATE METHODS FOR PLACING PIPE UNDER ENTRANCES DIAGRAM.
2. ENTRANCE GRADES ARE TO BE SMOOTHLY TIED INTO THE ROADWAY BY ROUNDING AS NECESSARY.
3. 12' OR EXISTING WIDTH WHICHEVER IS GREATER.
4. LENGTHS OF CULVERTS SHOWN ON ROAD PLANS FOR ENTRANCES ARE APPROXIMATE AND SHALL BE ADJUSTED TO OBTAIN ABOVE ROADWAY WIDTHS.
5. ENTRANCES IN FILL TO BE SAME AS ABOVE EXCEPT LOCATION OF CULVERT (WHEN NECESSARY).

SPECIFICATION REFERENCE	STANDARD PRIVATE ENTRANCES	VDOT ROAD AND BRIDGE STANDARDS
512	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE / SHEET 1 OF 1 / 602.02



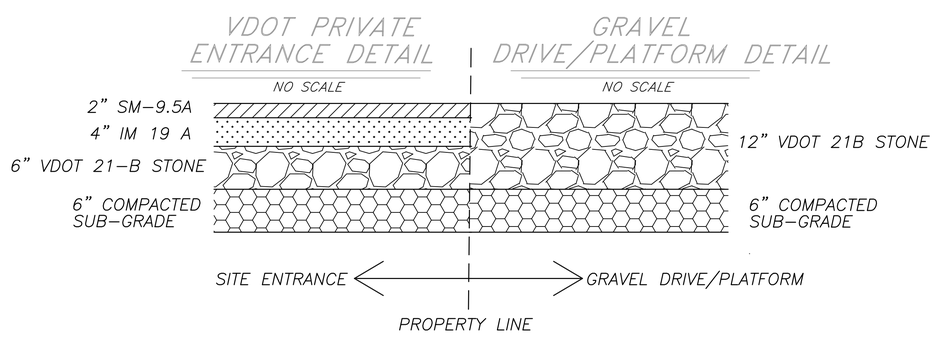
VEHICULAR GATE FOR CHAIN LINK FENCE

NOTE: FENCING IS TO BE SCREENED USING FOREST-GREEN SLATS.



CHAIN LINK FENCE

NOTE: FENCING IS TO BE SCREENED USING FOREST-GREEN SLATS.



Townes SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com
ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 035724
06-04-18
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

DETAILS

REVISIONS

DATE	ITEM
6/4/18	PER CO. COMMENTS

DATE 4-13-18

SCALE

PROJECT MANAGER BRIAN MITCHELL, P.E.

DESIGNED BY RPM

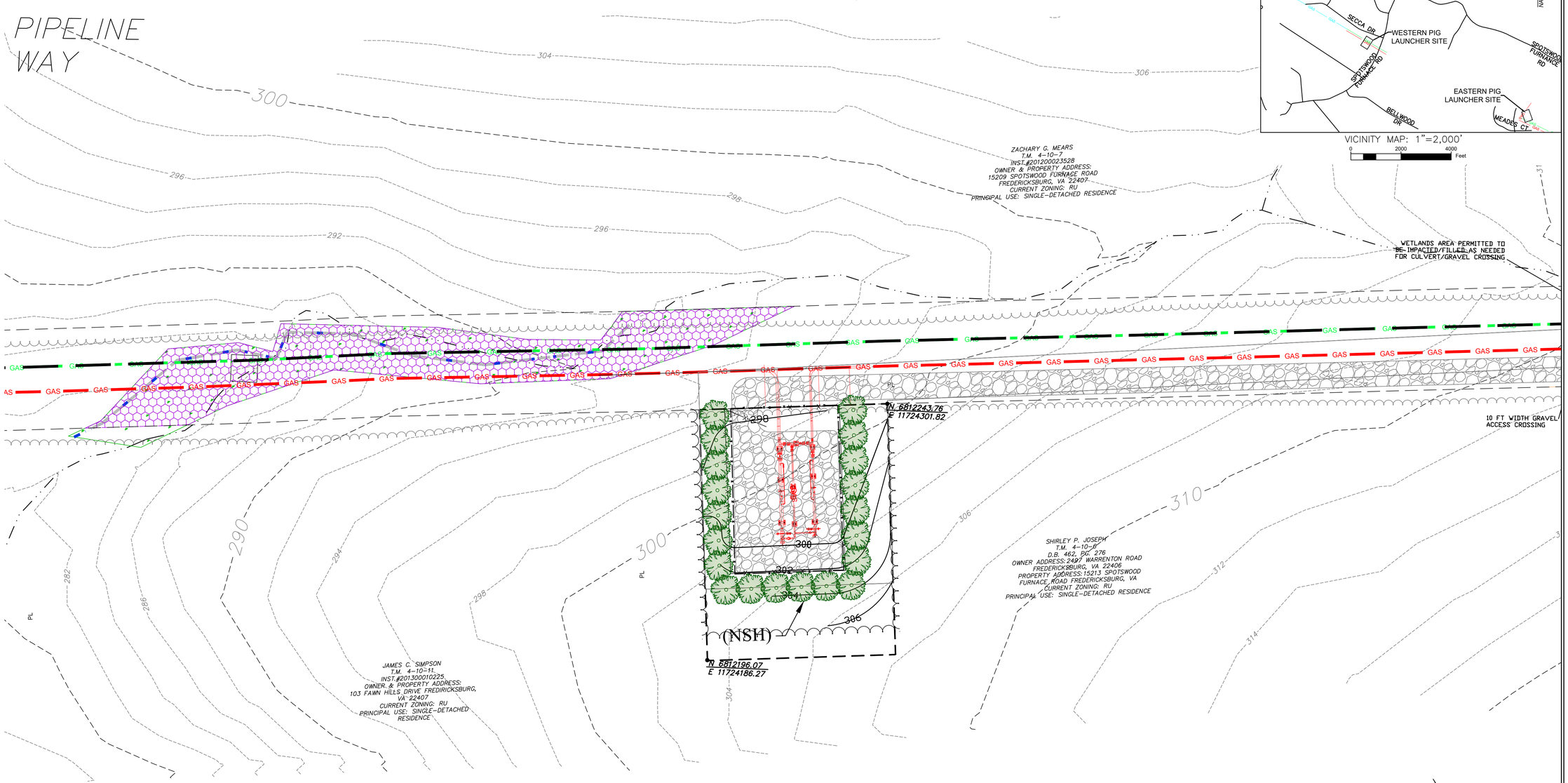
CHECKED BY

PROJ.# 20150279

SHEET # C - 6

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering

WAIVER MODIFICATION NOTE:
PER DSM ARTICLE 6-7, 4, J., TRANSITIONAL SCREENING, THE MODIFIED TRANSITIONAL SCREENING PROVIDED AND SHOWN BELOW IS APPROVED BY THE PLANNING DIRECTOR.



WESTERN SITE PLANT SCHEDULE

ABBREV.	SYMBOL	QUANITY	SCIENTIFIC NAME	COMMON NAME
NSH		20	ILEX X NELLIE R. STEVENS	NELLIE R. STEVENS HOLLY

NOTE: 20 HOLLIES PLANTED AT 6' HEIGHT AT 10' ON CENTER SPACING.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

Townes
SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23832
Phone:(804) 748-9011 Fax: (804) 748-2590
Company Website: www.cctownes.com
ASK US HOW

COMMONWEALTH OF VIRGINIA
BRIAN C. MITCHELL
Lic. No. 055724
07/17/2018
PROFESSIONAL ENGINEER

PIG INSERTION FACILITY
SPOTSYLVANIA COUNTY, VIRGINIA

WESTERN PIG INSERTION SITE LANDSCAPE SCHEMATIC

REVISIONS

DATE	ITEM
06/04/18	PER CO. COMMENTS

DATE 04/20/2018
SCALE 1" = 20'
PROJECT MANAGER BRIAN MITCHELL, P.E.
DESIGNED BY RILEY MORGAN, E.I.T.
CHECKED BY
PROJ.# 20150279
SHEET # C-7

This drawing and the design shown is the property of Townes Site Engineering the reproduction, copying, or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. © 2018 Townes Site Engineering