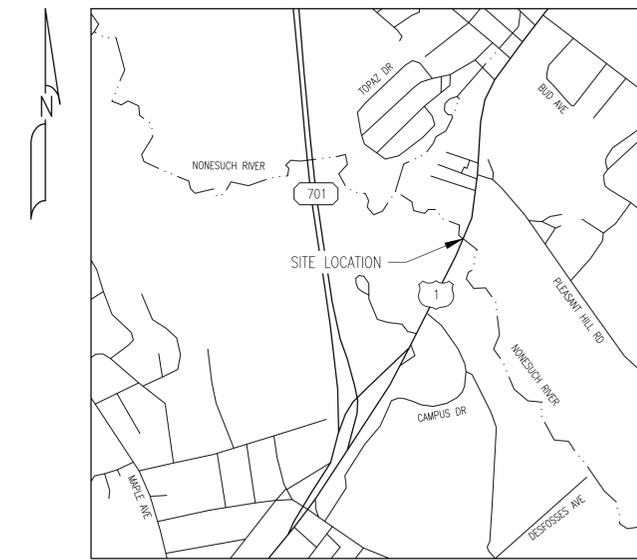




MAIN ST. US ROUTE 1
 51 US ROUTE 1
 SCARBOROUGH, MAINE 04074

INDEX OF SHEETS		
NUMBER	NAME	TITLE
1	T01	COVER SHEET
2	A01	EXISTING UTILITIES - SHEET 1 OF 10
3	A02	EXISTING UTILITIES - SHEET 2 OF 10
4	A03	EXISTING UTILITIES - SHEET 3 OF 10
5	A04	EXISTING UTILITIES - SHEET 4 OF 10
6	A05	EXISTING UTILITIES - SHEET 5 OF 10
7	A06	EXISTING UTILITIES - SHEET 6 OF 10
8	A07	EXISTING UTILITIES - SHEET 7 OF 10
9	A08	EXISTING UTILITIES - SHEET 8 OF 10
10	A09	EXISTING UTILITIES - SHEET 9 OF 10
11	A10	EXISTING UTILITIES - SHEET 10 OF 10
12	C01	NONESUCH RIVER BRIDGE CROSSING DETAIL
13	C02	STANDARD DETAIL



LOCUS
 SCALE: NTS



ISSUED FOR CONSTRUCTION				
ISSUE STATUS	DATE	REVIEWED	CHECKED	APPROVED
25% SUBMISSION	01/18/16			
50% SUBMISSION				
75% SUBMISSION				
90% SUBMISSION				
ISSUED FOR BID				
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AS CONSTRUCTED				

FILE NAME: 5167_C80.DWG	SIZE: 22X34	SHEET: T01	REV:
PLOT DATE: 03/02/2016 10:07 AM	SHEET 1 OF 13		

MATCHLINE - SHEET A01

MATCHLINE - SHEET A03



LEGEND

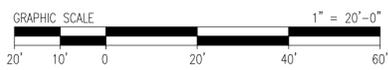
- B — BOUNDARY LINE
- - - XXX - - - CONTOUR MAJOR
- - - CONTOUR MINOR
- - - D - - - DRAINAGE
- - - EASEMENT
- - - E ELECTRIC
- x - x - FENCE CHAIN LINK
- o - o - FENCE POST
- □ - □ - FENCE STOCKADE
- - - EDGE OF GRAVEL
- - - EDGE OF PAVEMENT
- - - EDGE OF RIVER
- - - EDGE OF WETLAND
- G - GAS
- □ - GUARDRAIL
- OHW - OVER HEAD WIRES
- OHE - OVER HEAD TELEPHONE
- OHE - OVER HEAD ELECTRIC
- P - PROPERTY LINE
- - - RETAINING WALL
- - - ROW - RIGHT OF WAY
- S - SEWER
- SF - SILT FENCE
- - - STONEWALL
- - - STREAM
- T - TELEPHONE
- - - TREELINE
- W - WATER

UTILITIES LEGEND

- G GAS
- T TELEPHONE
- W WATER
- S SANITARY SEWER
- D STORM WATER
- G PROPOSED 8" CS

BASE MAPPING WAS COLLECTED FROM AERIAL PHOTOGRAPHY BY EASTERN TOPOGRAPHICS, WOLFEBORO, NH.
 PHOTO DATE: 15 APR 2015 (1:3000)
 COMPILATION DATE: 18 MAY 2015

GROUND CONTROL BY: MCENEANEY SURVEY ASSOC., INC.
 FIELD SURVEY BY: VANASSE HANGEN BRUSTLIN, INC.
 WETLAND DELINEATION BY: VANASSE HANGEN BRUSTLIN, INC.



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION
PRJ ENGINEER: STEPHEN M. READE	
PRJ NAME: SOUTH PORTLAND PIPELINE	
PRJ NUMBER: 5167	SHEET TITLE
PRJ MILESTONE: ISSUED FOR CONSTRUCTION	EXISTING UTILITIES
PRJ PHASE: ISSUED FOR CONSTRUCTION	SHEET 2 OF 10
DESIGNED BY: MDW 02/05/16	PROJECT NAME
DRAFTED BY: RPC 02/05/16	SOUTH PORTLAND PIPELINE
CHECKED BY: SMR 02/05/16	PROJECT LOCATION
APPROVED BY: MDW 02/05/16	#51 US ROUTE 1 SCARBOROUGH, MAINE

DESIGN MANAGER: XXXX	REVIEWED BY:
DESIGN ENGINEER: XXXX	CHECKED BY:
ACTIVATION ORDER:	APPROVED BY:

FILE NAME: 5167_C80.DWG	SIZE	SHEET	REV
PLOT DATE: 03/02/2016 10:08 AM	22X34	A02	G
SCALE: 1" = 20'-0"	SHEET 3 OF 13		

LEGEND

- BOUNDARY LINE
- CONTOUR MAJOR
- CONTOUR MINOR
- DRAINAGE
- EASEMENT
- ELECTRIC
- FENCE CHAIN LINK
- FENCE POST
- FENCE STOCKADE
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- EDGE OF RIVER
- EDGE OF WETLAND
- GAS
- GUARDRAIL
- OVER HEAD WIRES
- OVER HEAD TELEPHONE
- OVER HEAD ELECTRIC
- PROPERTY LINE
- RETAINING WALL
- RIGHT OF WAY
- SEWER
- SILT FENCE
- STONEWALL
- STREAM
- TELEPHONE
- TREELINE
- WATER

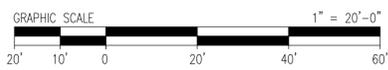


MATCHLINE - SHEET A02

MATCHLINE - SHEET A04

UTILITIES LEGEND

	G		G	GAS
	T		T	TELEPHONE
	W		W	WATER
	S		S	SANITARY SEWER
	D		D	STORM WATER
	G		G	PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

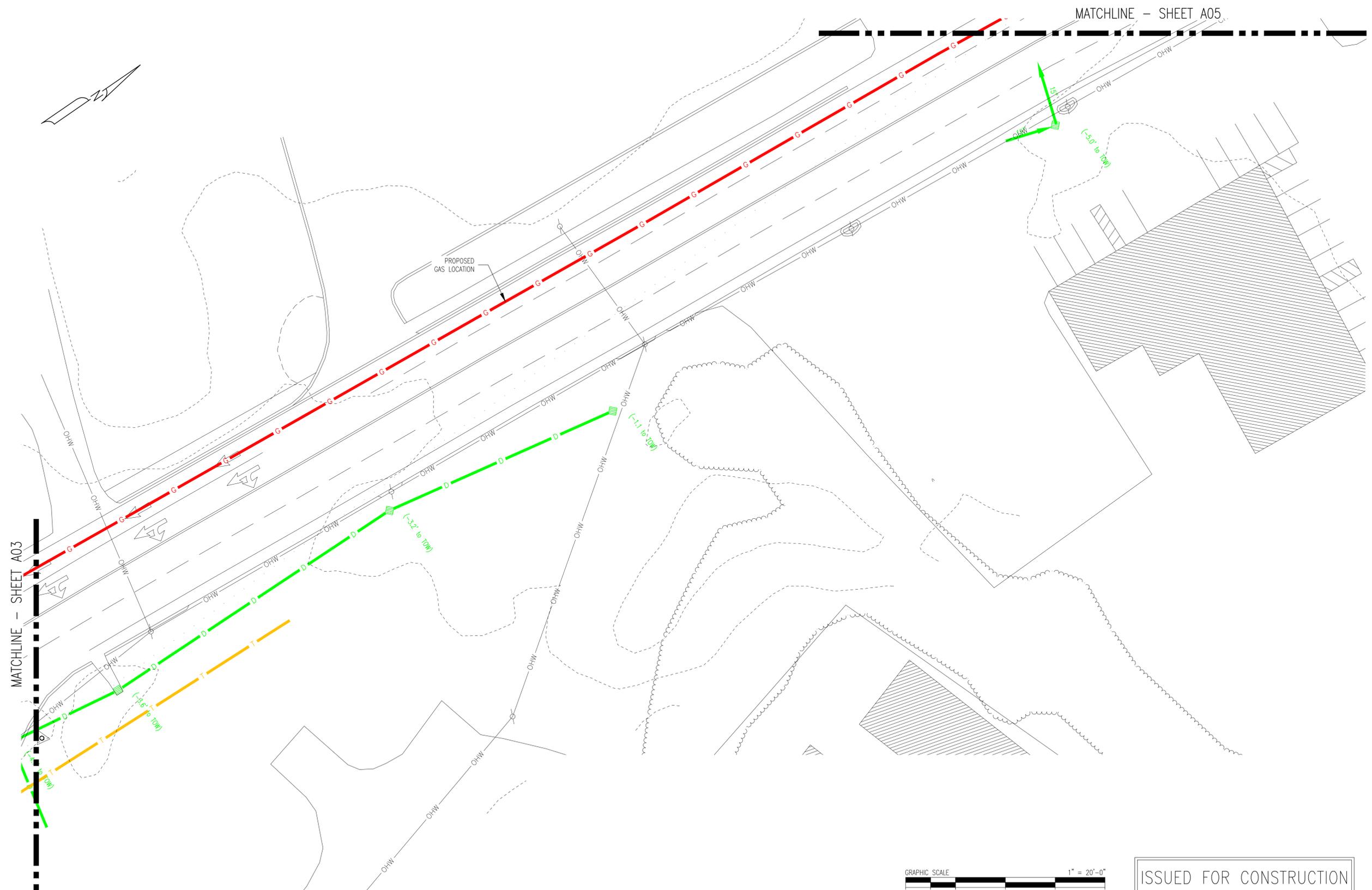
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DESIGNED BY:	MDW	02/05/16	DESIGN MANAGER: XXXX	REVIEWED BY:																					
DRAFTED BY:	RPC	02/05/16	DESIGN ENGINEER: XXXX	CHECKED BY:																					
CHECKED BY:	SMR	02/05/16	ACTIVATION ORDER:	APPROVED BY:																					
APPROVED BY:	MDW	02/05/16																							

<p>SHEET TITLE EXISTING UTILITIES SHEET 3 OF 10</p> <p>PROJECT NAME SOUTH PORTLAND PIPELINE</p> <p>PROJECT LOCATION #51 US ROUTE 1 SCARBOROUGH, MAINE</p>	<p>PROCESS PIPELINE SERVICES</p> <p>1600 Providence Highway Walpole, MA 02081 781.829.0524 processpipelineservices.com</p>
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PLOT DATE: 03/02/2016 10:08 AM	SHEET 4 OF 13		
SCALE: 1" = 20'-0"			

LEGEND

- BOUNDARY LINE
- CONTOUR MAJOR
- CONTOUR MINOR
- DRAINAGE
- EASEMENT
- ELECTRIC
- FENCE CHAIN LINK
- FENCE POST
- FENCE STOCKADE
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- EDGE OF RIVER
- EDGE OF WETLAND
- GAS
- GUARDRAIL
- OVER HEAD WIRES
- OVER HEAD TELEPHONE
- OVER HEAD ELECTRIC
- PROPERTY LINE
- RETAINING WALL
- RIGHT OF WAY
- SEWER
- SILT FENCE
- STONEWALL
- STREAM
- TELEPHONE
- TREELINE
- WATER



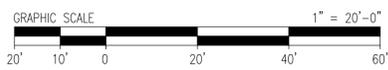
MATCHLINE - SHEET A05

MATCHLINE - SHEET A03

PROPOSED GAS LOCATION

UTILITIES LEGEND

- G GAS
- T TELEPHONE
- W WATER
- S SANITARY SEWER
- D STORM WATER
- G PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION		SHEET TITLE
PRJ ENGINEER: STEPHEN M. READE	PRJ NAME: SOUTH PORTLAND PIPELINE		EXISTING UTILITIES SHEET 4 OF 10
PRJ NUMBER: 5167	PRJ MILESTONE: ISSUED FOR CONSTRUCTION	PROJECT NAME	SOUTH PORTLAND PIPELINE
PRJ PHASE: ISSUED FOR CONSTRUCTION	DESIGNED BY: MDW 02/05/16	PROJECT LOCATION	#51 US ROUTE 1 SCARBOROUGH, MAINE
DRAFTED BY: RPC 02/05/16	CHECKED BY: SMR 02/05/16	DESIGN MANAGER: XXXX	FILE NAME: 5167_C80.DWG
CHECKED BY: SMR 02/05/16	APPROVED BY: MDW 02/05/16	DESIGN ENGINEER: XXXX	PLOT DATE: 03/02/2016 10:08 AM
APPROVED BY: MDW 02/05/16	ACTIVATION ORDER:	REVIEWED BY:	SCALE: 1" = 20'-0"
		CHECKED BY:	SIZE 22X34
		APPROVED BY:	SHEET A04
			REV G
			SHEET 5 OF 13

PROJECT NAME	SOUTH PORTLAND PIPELINE
PROJECT LOCATION	#51 US ROUTE 1 SCARBOROUGH, MAINE

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781.829.0524
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LEGEND

— —	BOUNDARY LINE
- - - - -	CONTOUR MAJOR
- · - · -	CONTOUR MINOR
- - - - -	DRAINAGE
- - - - -	EASEMENT
- - - - -	ELECTRIC
x - x - x	FENCE CHAIN LINK
o - o - o	FENCE POST
□ - □ - □	FENCE STOCKADE
- - - - -	EDGE OF GRAVEL
- - - - -	EDGE OF PAVEMENT
- - - - -	EDGE OF RIVER
- - - - -	EDGE OF WETLAND
- - - - -	GAS
□ - □ - □	GUARDRAIL
— —	OVER HEAD WIRES
— —	OVER HEAD TELEPHONE
— —	OVER HEAD ELECTRIC
— —	PROPERTY LINE
— —	RETAINING WALL
— —	RIGHT OF WAY
S	SEWER
SF	SILT FENCE
— —	STONEWALL
— —	STREAM
T	TELEPHONE
— —	TREELINE
— —	WATER

UTILITIES LEGEND

— —	G	GAS
— —	T	TELEPHONE
— —	W	WATER
— —	S	SANITARY SEWER
— —	D	STORM WATER
— —	G	PROPOSED 8" CS

ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD PRJ ENGINEER: STEPHEN M. READE PRJ NAME: SOUTH PORTLAND PIPELINE PRJ NUMBER: 5167 PRJ MILESTONE: ISSUED FOR CONSTRUCTION PRJ PHASE: ISSUED FOR CONSTRUCTION	DESIGNED BY: MDW 02/05/16 DRAFTED BY: RPC 02/05/16 CHECKED BY: SMR 02/05/16 APPROVED BY: MDW 02/05/16	CLIENT INFORMATION Unitil Northern Utilities, Inc.	DESIGN MANAGER: XXXX DESIGN ENGINEER: XXXX ACTIVATION ORDER:	REVIEWED BY: CHECKED BY: APPROVED BY:
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SHEET TITLE EXISTING UTILITIES SHEET 5 OF 10	PROJECT NAME SOUTH PORTLAND PIPELINE	PROJECT LOCATION #51 US ROUTE 1 SCARBOROUGH, MAINE
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PROCESS PIPELINE SERVICES

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FILE NAME: 5167_C80.DWG PLOT DATE: 03/02/2016 10:08 AM SCALE: 1" = 20'-0"	SIZE 22X34	SHEET A05	REV G
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SHEET 6 OF 13

MATCHLINE - SHEET A05

MATCHLINE - SHEET A07

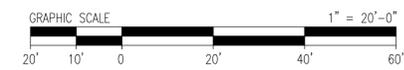


LEGEND

- B — BOUNDARY LINE
- - - - - XXX - - - - - CONTOUR MAJOR
- - - - - CONTOUR MINOR
- - - - - D - - - - - DRAINAGE
- - - - - EASEMENT
- - - - - E ELECTRIC
- x x x x FENCE CHAIN LINK
- o o o o FENCE POST
- □ □ □ FENCE STOCKADE
- - - - - EDGE OF GRAVEL
- - - - - EDGE OF PAVEMENT
- - - - - EDGE OF RIVER
- - - - - EDGE OF WETLAND
- G GAS
- □ □ □ GUARDRAIL
- OHW — OVER HEAD WIRES
- OHE — OVER HEAD TELEPHONE
- OHE — OVER HEAD ELECTRIC
- P — PROPERTY LINE
- RETAINING WALL
- ROW — RIGHT OF WAY
- S SEWER
- SF SILT FENCE
- STONEWALL
- STREAM
- T TELEPHONE
- TREELINE
- W — WATER

UTILITIES LEGEND

- G GAS
- T TELEPHONE
- W WATER
- S SANITARY SEWER
- D STORM WATER
- G PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

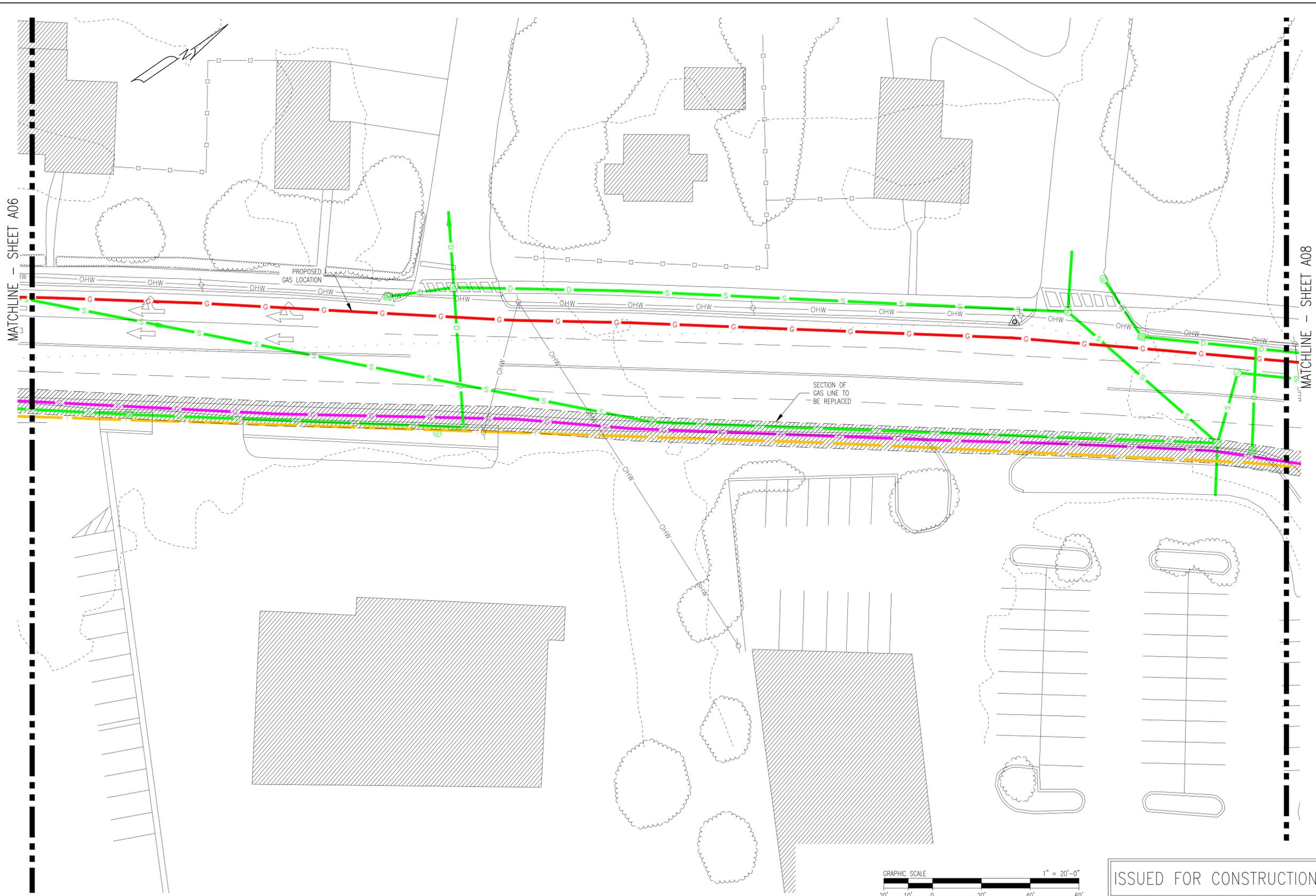
PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION		SHEET TITLE
PRJ ENGINEER: STEPHEN M. READE	PRJ NAME: SOUTH PORTLAND PIPELINE		EXISTING UTILITIES SHEET 6 OF 10
PRJ NUMBER: 5167	PRJ MILESTONE: ISSUED FOR CONSTRUCTION	PROJECT NAME	SOUTH PORTLAND PIPELINE
PRJ PHASE: ISSUED FOR CONSTRUCTION	DESIGNED BY: MDW 02/05/16	PROJECT LOCATION	#51 US ROUTE 1 SCARBOROUGH, MAINE
DRAFTED BY: RPC 02/05/16	CHECKED BY: SMR 02/05/16	DESIGN MANAGER: XXXX	FILE NAME: 5167_C80.DWG
CHECKED BY: SMR 02/05/16	APPROVED BY: MDW 02/05/16	DESIGN ENGINEER: XXXX	SCALE: 1" = 20'-0"
APPROVED BY: MDW 02/05/16	ACTIVATION ORDER:	REVIEWED BY:	SIZE 22X34
		CHECKED BY:	SHEET A06
		APPROVED BY:	REV G

PROJECT LOCATION	#51 US ROUTE 1 SCARBOROUGH, MAINE
FILE NAME:	5167_C80.DWG
PLOT DATE:	03/02/2016 10:08 AM
SCALE:	1" = 20'-0"

PROCESS PIPELINE SERVICES

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SIZE 22X34 SHEET A06 REV G
SHEET 7 OF 13

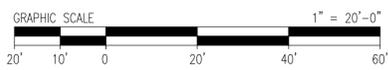


LEGEND

— —	BOUNDARY LINE
- - - - -	CONTOUR MAJOR
- · - · -	CONTOUR MINOR
- - - - -	DRAINAGE
- - - - -	EASEMENT
- - - - -	ELECTRIC
x - x - x	FENCE CHAIN LINK
o - o - o	FENCE POST
□ - □ - □	FENCE STOCKADE
- - - - -	EDGE OF GRAVEL
- - - - -	EDGE OF PAVEMENT
- - - - -	EDGE OF RIVER
- - - - -	EDGE OF WETLAND
G	GAS
□ - □ - □	GUARDRAIL
OHW	OVER HEAD WIRES
OHE	OVER HEAD TELEPHONE
OHE	OVER HEAD ELECTRIC
— —	PROPERTY LINE
— —	RETAINING WALL
— —	RIGHT OF WAY
S	SEWER
SF	SILT FENCE
— —	STONEWALL
— —	STREAM
T	TELEPHONE
— —	TREELINE
W	WATER

UTILITIES LEGEND

— —	G	GAS
— —	T	TELEPHONE
— —	W	WATER
— —	S	SANITARY SEWER
— —	D	STORM WATER
— —	G	PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION		SHEET TITLE
PRJ ENGINEER: STEPHEN M. READE	PRJ NAME: SOUTH PORTLAND PIPELINE		EXISTING UTILITIES SHEET 7 OF 10
PRJ NUMBER: 5167	PRJ MILESTONE: ISSUED FOR CONSTRUCTION	PROJECT NAME	SOUTH PORTLAND PIPELINE
PRJ PHASE: ISSUED FOR CONSTRUCTION	DESIGNED BY: MDW 02/05/16	PROJECT LOCATION	#51 US ROUTE 1 SCARBOROUGH, MAINE
DRAFTED BY: RPC 02/05/16	CHECKED BY: SMR 02/05/16	DESIGN MANAGER: XXXX	DESIGN ENGINEER: XXXX
CHECKED BY: SMR 02/05/16	APPROVED BY: MDW 02/05/16	ACTIVATION ORDER:	REVIEWED BY:
APPROVED BY: MDW 02/05/16			CHECKED BY:
			APPROVED BY:

FILE NAME: 5167_C80.DWG	SIZE	SHEET	REV
PLOT DATE: 03/02/2016 10:08 AM	22X34	A07	G
SCALE: 1" = 20'-0"	SHEET 8 OF 13		

PROCESS PIPELINE SERVICES

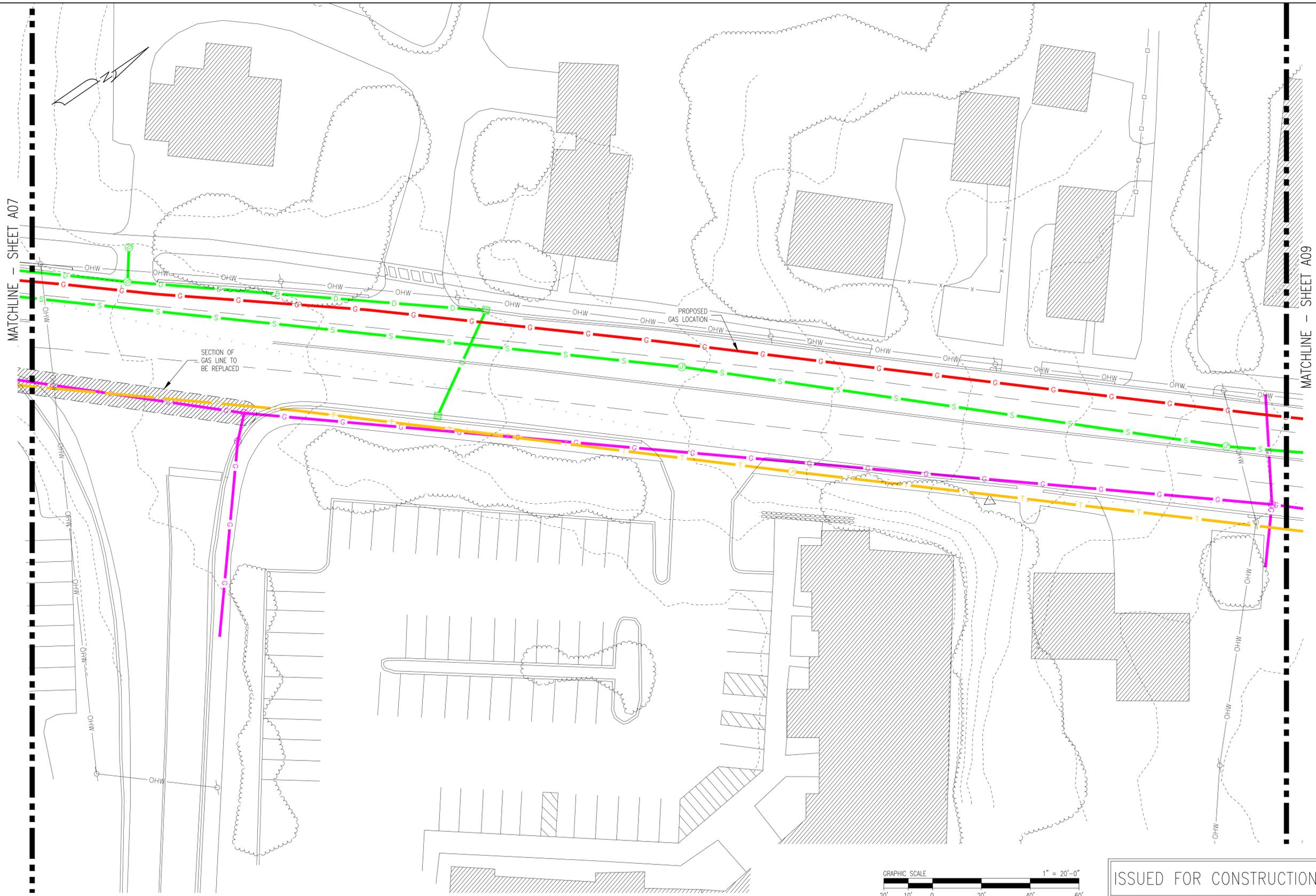
1600 Providence Highway
Walpole, MA 02081
781.829.0524
processpipelineservices.com

MATCHLINE - SHEET A07

MATCHLINE - SHEET A09

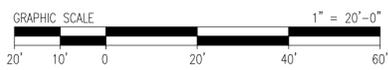
LEGEND

- BOUNDARY LINE
- CONTOUR MAJOR
- CONTOUR MINOR
- DRAINAGE
- EASEMENT
- ELECTRIC
- FENCE CHAIN LINK
- FENCE POST
- FENCE STOCKADE
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- EDGE OF RIVER
- EDGE OF WETLAND
- GAS
- GUARDRAIL
- OVER HEAD WIRES
- OVER HEAD TELEPHONE
- OVER HEAD ELECTRIC
- PROPERTY LINE
- RETAINING WALL
- RIGHT OF WAY
- SEWER
- SILT FENCE
- STONEWALL
- STREAM
- TELEPHONE
- TREELINE
- WATER



SECTION OF GAS LINE TO BE REPLACED

PROPOSED GAS LOCATION



ISSUED FOR CONSTRUCTION

UTILITIES LEGEND

- G GAS
- T TELEPHONE
- W WATER
- S SANITARY SEWER
- D STORM WATER
- G PROPOSED 8" CS

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD
 PRJ ENGINEER: STEPHEN M. READE
 PRJ NAME: SOUTH PORTLAND PIPELINE
 PRJ NUMBER: 5167
 PRJ MILESTONE: ISSUED FOR CONSTRUCTION
 PRJ PHASE: ISSUED FOR CONSTRUCTION

DESIGNED BY: MDW	02/05/16	DESIGN MANAGER: XXXX	REVIEWED BY:
DRAFTED BY: RPC	02/05/16	DESIGN ENGINEER: XXXX	CHECKED BY:
CHECKED BY: SMR	02/05/16	ACTIVATION ORDER:	APPROVED BY:
APPROVED BY: MDW	02/05/16		

SHEET TITLE
 EXISTING UTILITIES
 SHEET 8 OF 10

PROJECT NAME
 SOUTH PORTLAND PIPELINE

PROJECT LOCATION
 #51 US ROUTE 1
 SCARBOROUGH, MAINE

PROCESS PIPELINE SERVICES

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 Walpole, MA 02081
 781.829.0524
 processpipelineservices.com

FILE NAME: 5167_C80.DWG	SIZE: 22X34	SHEET: A08	REV: G
PLOT DATE: 03/02/2016 10:09 AM	SHEET 9 OF 13		
SCALE: 1" = 20'-0"			

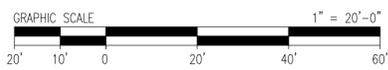


LEGEND

— —	BOUNDARY LINE
- - - - -	CONTOUR MAJOR
- - - - -	CONTOUR MINOR
- - - - -	DRAINAGE
- - - - -	EASEMENT
- - - - -	ELECTRIC
x - x - x	FENCE CHAIN LINK
o - o - o	FENCE POST
□ - □ - □	FENCE STOCKADE
- - - - -	EDGE OF GRAVEL
- - - - -	EDGE OF PAVEMENT
- - - - -	EDGE OF RIVER
- - - - -	EDGE OF WETLAND
G	GAS
□ - □ - □	GUARDRAIL
OHW	OVER HEAD WIRES
OHE	OVER HEAD TELEPHONE
OHE	OVER HEAD ELECTRIC
— —	PROPERTY LINE
— —	RETAINING WALL
— —	RIGHT OF WAY
S	SEWER
SF	SILT FENCE
— —	STONEWALL
— —	STREAM
T	TELEPHONE
— —	TREELINE
W	WATER

UTILITIES LEGEND

G	GAS
T	TELEPHONE
W	WATER
S	SANITARY SEWER
D	STORM WATER
G	PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION		SHEET TITLE
PRJ ENGINEER: STEPHEN M. READE	PRJ NAME: SOUTH PORTLAND PIPELINE		EXISTING UTILITIES SHEET 9 OF 10
PRJ NUMBER: 5167	PRJ MILESTONE: ISSUED FOR CONSTRUCTION	PROJECT NAME	SOUTH PORTLAND PIPELINE
PRJ PHASE: ISSUED FOR CONSTRUCTION	DESIGNED BY: MDW 02/05/16	DESIGN MANAGER: XXXX	PROJECT LOCATION
DRAFTED BY: RPC 02/05/16	CHECKED BY: SMR 02/05/16	DESIGN ENGINEER: XXXX	#51 US ROUTE 1 SCARBOROUGH, MAINE
CHECKED BY: SMR 02/05/16	APPROVED BY: MDW 02/05/16	ACTIVATION ORDER:	FILE NAME: 5167_C80.DWG
APPROVED BY: MDW 02/05/16			PLOT DATE: 03/02/2016 10:09 AM
			SCALE: 1" = 20'-0"

SIZE	SHEET	REV
22X34	A09	G
SHEET 10 OF 13		

PROCESS PIPELINE SERVICES

1600 Providence Highway
Walpole, MA 02081
781.829.0524
processpipelineservices.com

MATCHLINE - SHEET A09

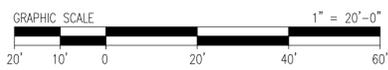


LEGEND

- B — BOUNDARY LINE
- - - XXX - - - CONTOUR MAJOR
- - - CONTOUR MINOR
- - - D - - - DRAINAGE
- - - E - - - EASEMENT
- - - E - - - ELECTRIC
- x - x - FENCE CHAIN LINK
- o - o - FENCE POST
- □ - □ - FENCE STOCKADE
- - - - - EDGE OF GRAVEL
- - - - - EDGE OF PAVEMENT
- - - - - EDGE OF RIVER
- - - - - EDGE OF WETLAND
- G - G - GAS
- □ - □ - GUARDRAIL
- OHW - OHW - OVER HEAD WIRES
- OHE - OHE - OVER HEAD TELEPHONE
- OHE - OHE - OVER HEAD ELECTRIC
- P - P - PROPERTY LINE
- - - - - RETAINING WALL
- ROW - ROW - RIGHT OF WAY
- S - S - SEWER
- SF - SF - SILT FENCE
- - - - - STONEWALL
- - - - - STREAM
- T - T - TELEPHONE
- - - - - TREELINE
- W - W - WATER

UTILITIES LEGEND

- G — GAS
- T — TELEPHONE
- W — WATER
- S — SANITARY SEWER
- D — STORM WATER
- G — PROPOSED 8" CS



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD
 PRJ ENGINEER: STEPHEN M. READE
 PRJ NAME: SOUTH PORTLAND PIPELINE
 PRJ NUMBER: 5167
 PRJ MILESTONE: ISSUED FOR CONSTRUCTION
 PRJ PHASE: ISSUED FOR CONSTRUCTION

DESIGNED BY: MDW	02/05/16	DESIGN MANAGER: XXXX	REVIEWED BY:
DRAFTED BY: RPC	02/05/16	DESIGN ENGINEER: XXXX	CHECKED BY:
CHECKED BY: SMR	02/05/16	ACTIVATION ORDER:	APPROVED BY:
APPROVED BY: MDW	02/05/16		

Unitil
Northern Utilities, Inc.

SHEET TITLE: EXISTING UTILITIES SHEET 10 OF 10

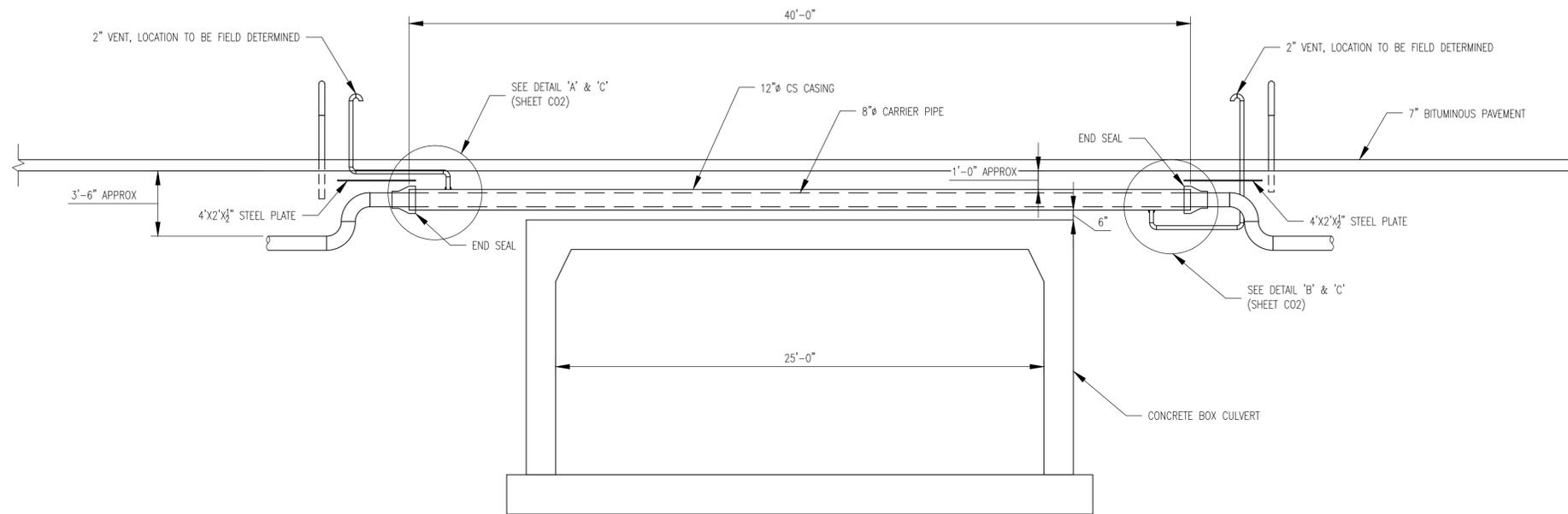
PROJECT NAME: SOUTH PORTLAND PIPELINE

PROJECT LOCATION: #51 US ROUTE 1 SCARBOROUGH, MAINE

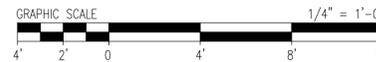
PROCESS PIPELINE SERVICES

1600 Providence Highway
Walpole, MA 02081
781.829.0524
processpipelineservices.com

FILE NAME: 5167_C80.DWG	SIZE: 22X34	SHEET: A10	REV: G
PLOT DATE: 03/02/2016 10:09 AM	SHEET 11 OF 13		
SCALE: 1" = 20'-0"			



NONESUCH RIVER BRIDGE
CROSSING DETAIL
SCALE: 1/4" = 1'-0"



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD
 PRJ ENGINEER: STEPHEN M. READE
 PRJ NAME: SOUTH PORTLAND PIPELINE
 PRJ NUMBER: 5167
 PRJ MILESTONE: ISSUED FOR CONSTRUCTION
 PRJ PHASE: ISSUED FOR CONSTRUCTION

DESIGNED BY: MDW 02/05/16
 DRAFTED BY: RPC 02/05/16
 CHECKED BY: SMR 02/05/16
 APPROVED BY: MDW 02/05/16

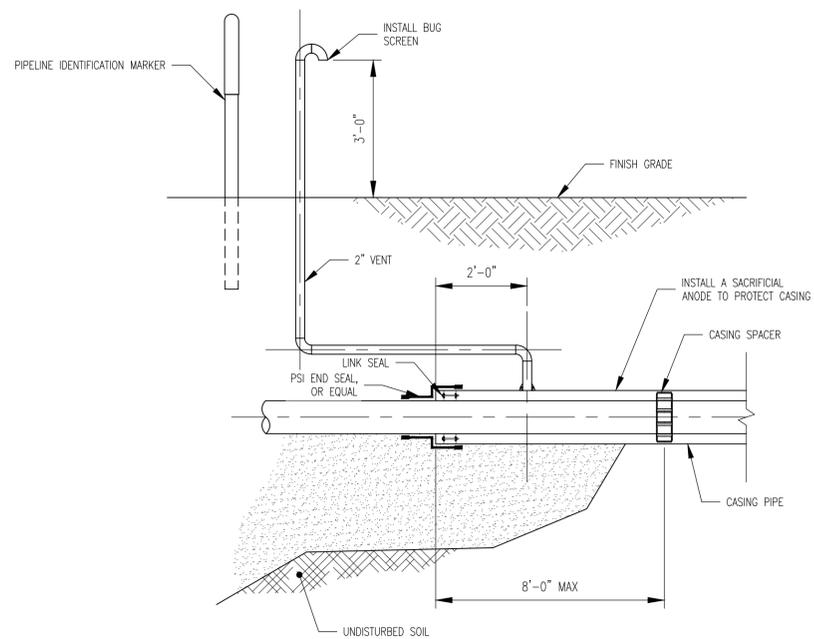


SHEET TITLE
NONESUCH RIVER BRIDGE CROSSING
DETAIL
PROJECT NAME
SOUTH PORTLAND PIPELINE
PROJECT LOCATION
#51 US ROUTE 1
SCARBOROUGH, MAINE

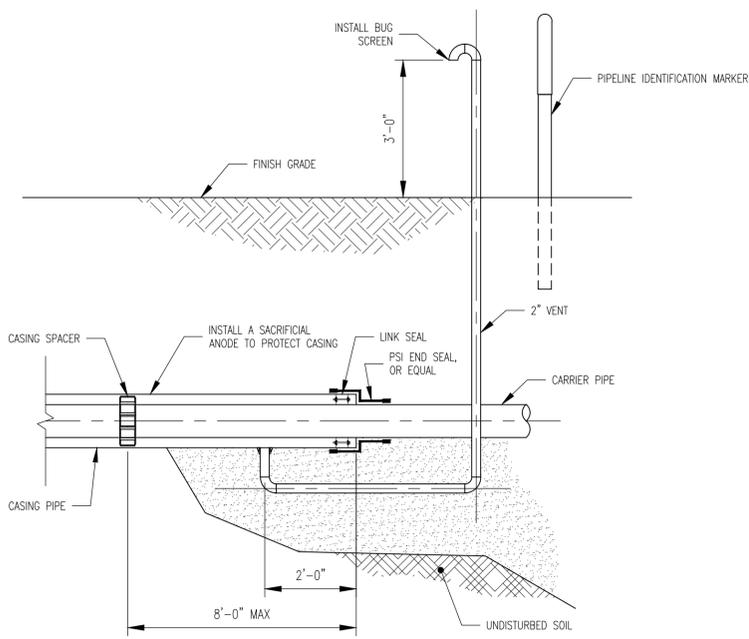
PROCESS PIPELINE SERVICES
 1600 Providence Highway
 Walpole, MA 02081
 781.829.0524
 processpipelineservices.com

FILE NAME: 5167_C80.DWG
 PLOT DATE: 03/02/2016 10:09 AM
 SCALE: 1/4" = 1'-0"

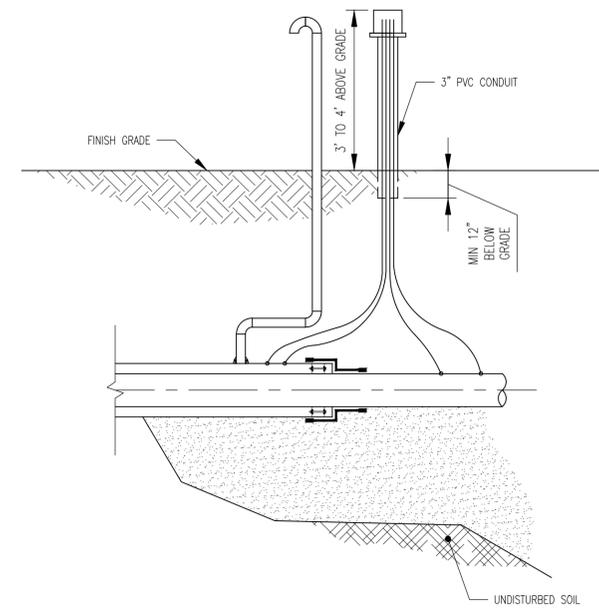
SIZE: 22X34
 SHEET: C01
 REV: G
 SHEET 12 OF 13



DETAIL A
SCALE: 1/2" = 1'-0"



DETAIL B
SCALE: 1/2" = 1'-0"



DETAIL C
4-WIRE TEST STATION
SCALE: 1/2" = 1'-0"

8" CSGT CROSSING - BILL OF MATERIALS										
ITEM	QTY	UOM	SIZE	DESCRIPTION	RATING	THICKNESS	STANDARD	MATERIAL	MANUFACTURER	NOTES
1	40	FT	12	PIPE, BARE	-	0.375	ASME B36.10	API 5L GRADE B	-	CASING PIPE
2	50	FT	8	PIPE, COATED	-	0.322	ASME B36.10	API 5L GRADE X52	-	-
3	30	FT	2	PIPE, BARE	-	0.218	ASME B36.10	API 5L GRADE B	-	VENT PIPE
4	4	EA	8	ELBOW, 90 DEG, LR	-	0.322	ASME B16.9	MSS SP-75, WPHY 52	-	-
5	8	EA	2	ELBOW, 90 DEG, LR	-	0.218	ASME B16.9	ASTM A-234, WPB	-	VENT PIPE
6	2	EA	12 X 2	WELD-O-LET	3000#	-	ASME B16.11	ASTM A-105	-	VENT PIPE
7	2	SETS	-	LINK SEAL MODEL LS-475-C-12	-	-	-	-	PSI	ASSEMBLY 812
8	2	EA	8X12	CASING END SEAL, MODEL S	-	-	-	-	PSI	-
9	5	EA	8X12	CASING SPACER, MODEL PE	-	-	-	-	PSI	-
10	2	EA	-	TEST STATION, 4-WIRE	-	-	-	-	-	-
11	2	EA	4'X2'X1/2"	STEEL PLATE	-	-	-	-	-	-



ISSUED FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	DWG NO.	REFERENCE DRAWINGS	SEAL AND SIGNATURE

PRJ MANAGER: MARK D. WOOD	CLIENT INFORMATION		SHEET TITLE
PRJ ENGINEER: STEPHEN M. READE	PRJ NAME: SOUTH PORTLAND PIPELINE		STANDARD DETAILS
PRJ NUMBER: 5167	PRJ MILESTONE: ISSUED FOR CONSTRUCTION	PROJECT LOCATION	PROJECT NAME
DESIGNED BY: MDW 02/05/16	DRAFTED BY: RPC 02/05/16	#51 US ROUTE 1 SCARBOROUGH, MAINE	SOUTH PORTLAND PIPELINE
CHECKED BY: SMR 02/05/16	APPROVED BY: MDW 02/05/16	DESIGN ENGINEER: XXXX	REVIEWED BY:
APPROVED BY:	ACTIVATION ORDER:	CHECKED BY:	APPROVED BY:

FILE NAME: 5167_C80.DWG	SIZE	SHEET	REV
PLOT DATE: 03/02/2016 10:09 AM	22X34	C02	G
SCALE: 1/2" = 1'-0"	SHEET 13 OF 13		

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