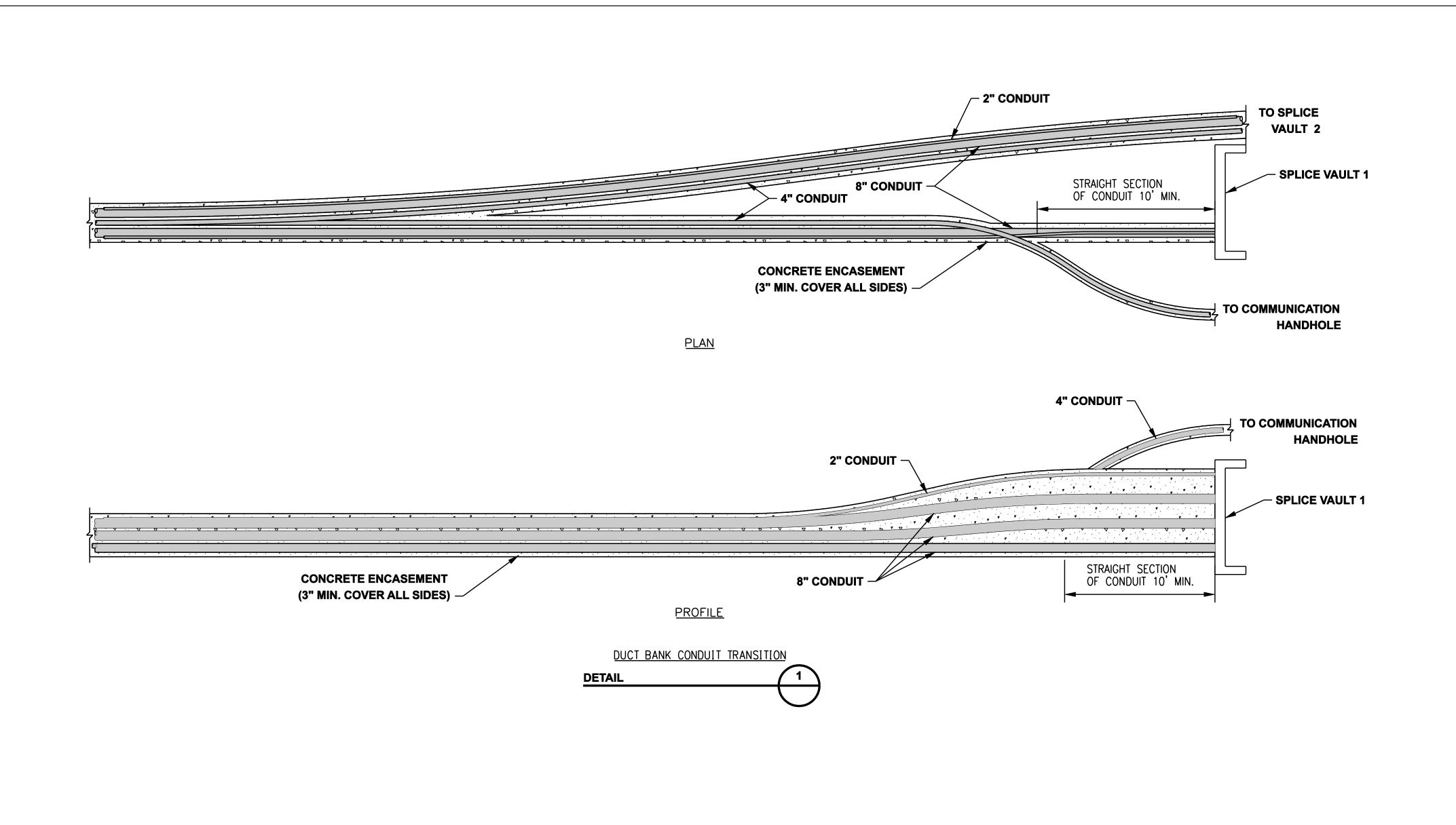


NOTES:

 THE VAULT DEVELOPMENT PLAN IS A TYPICAL DESIGN FOR THE 345KV VAULT. ORIENTATION FOR EACH VAULT SHALL BE IN ACCORDANCE WITH THE PLAN & PROFILE DRAWINGS.

					Burr					FC	 DR		ITIES SE ght & powe	RVICE CO.
						onnell E 1898				TIT	TLE MIDD	LETOWN-NORWALK .	345kV TRANSMISSIOI SPLICE VAUL MENT 4A	N PROJECT
	ISSUED FOR				date 06/15/06	detailed L. ROWSE					SEN-BMCD TE 6-15-06	CHKD DATE	APP DATE	APP DATE
DOCKET No. 272	CONSTRUCTION	1 5/10/07 no. date	ISSUED CSC REVISED revisions	CTC by chk	designed C. COURTRIGHT	checked S. NEWLAND	MF NO. DATE	REVISIONS	BY CHK	SCA	ALE AS NOTED	D	DWG. NO.	4-45003 PG 006



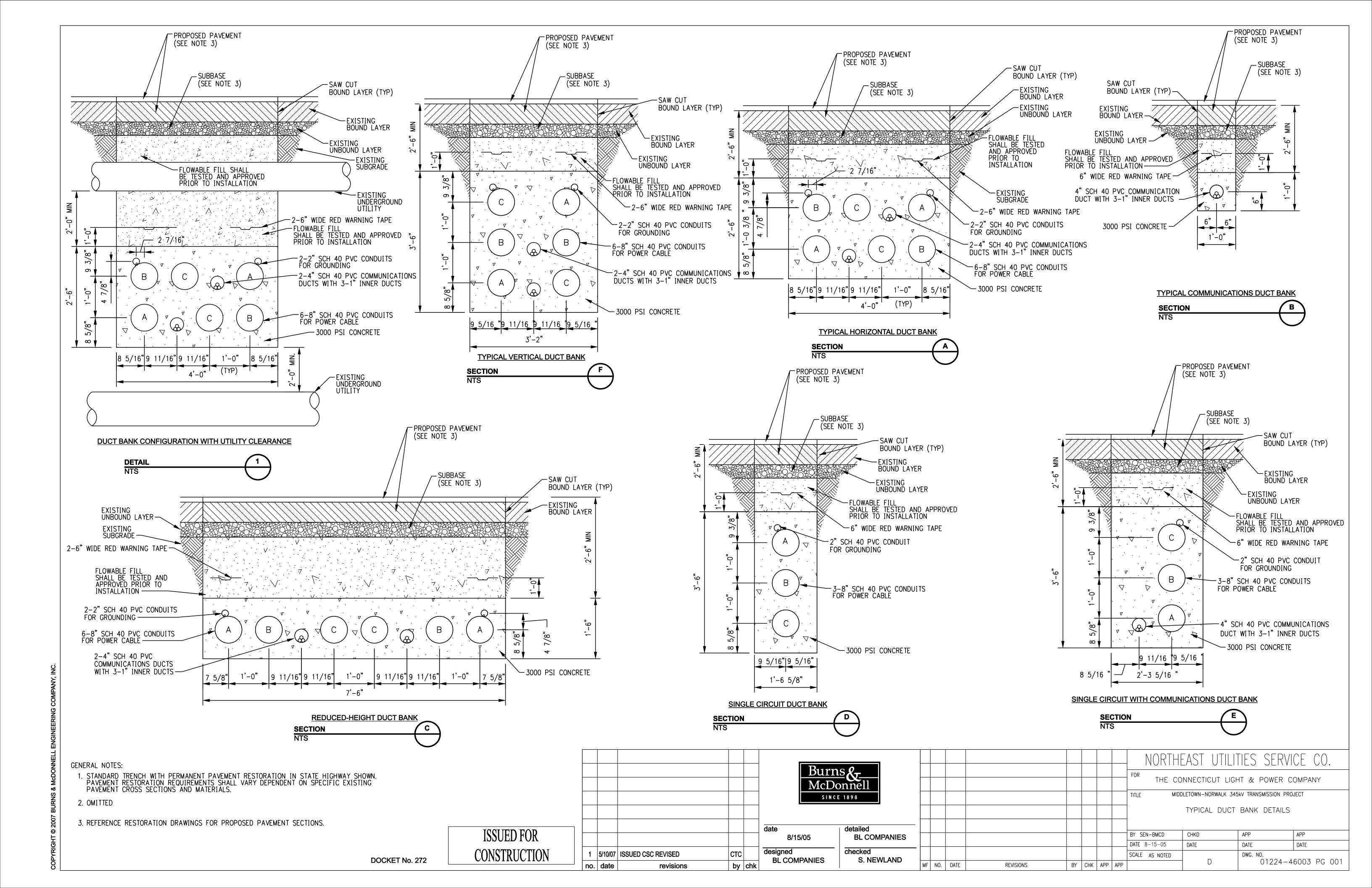
ISSUED FOR

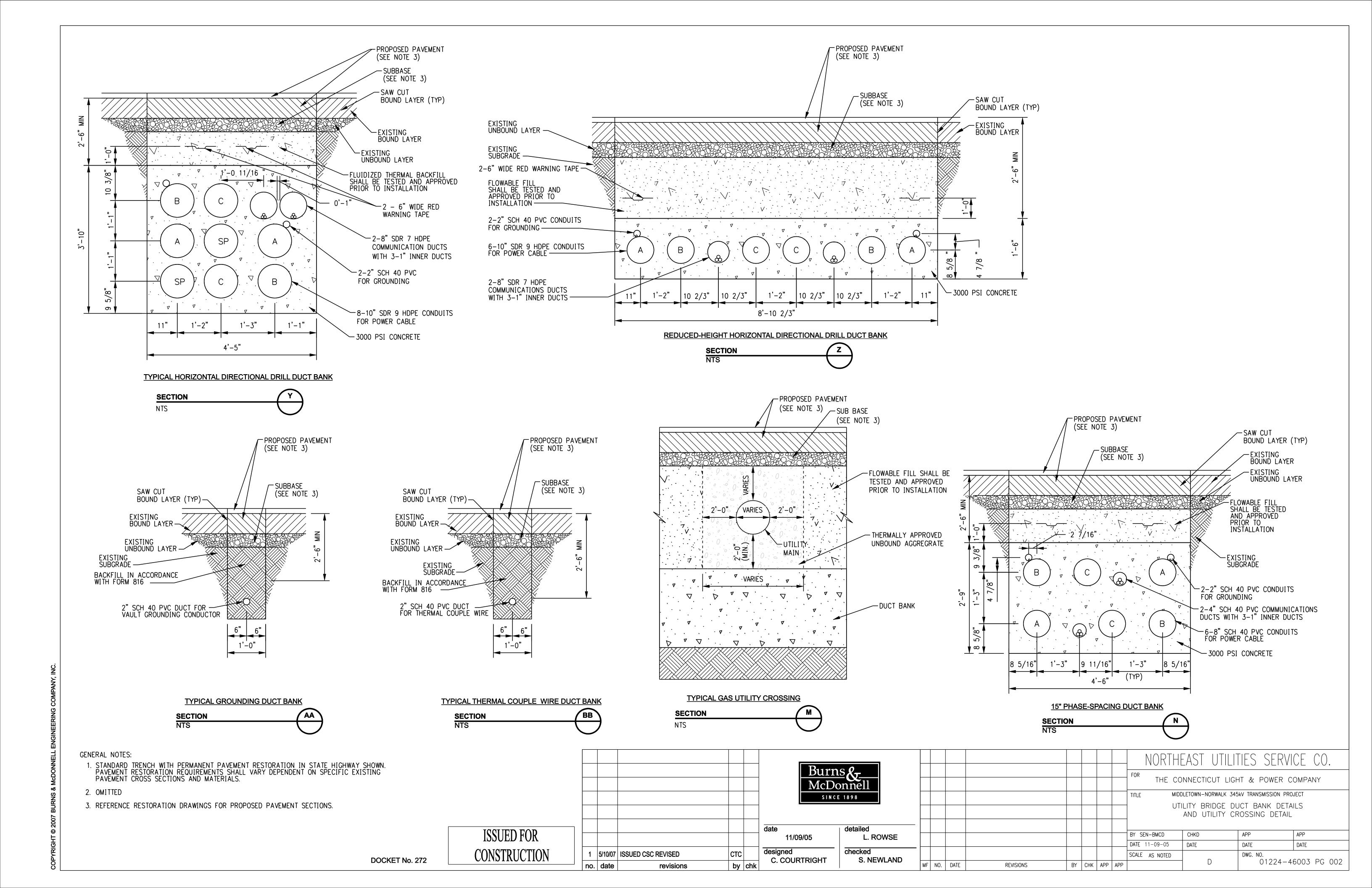
CONSTRUCTION

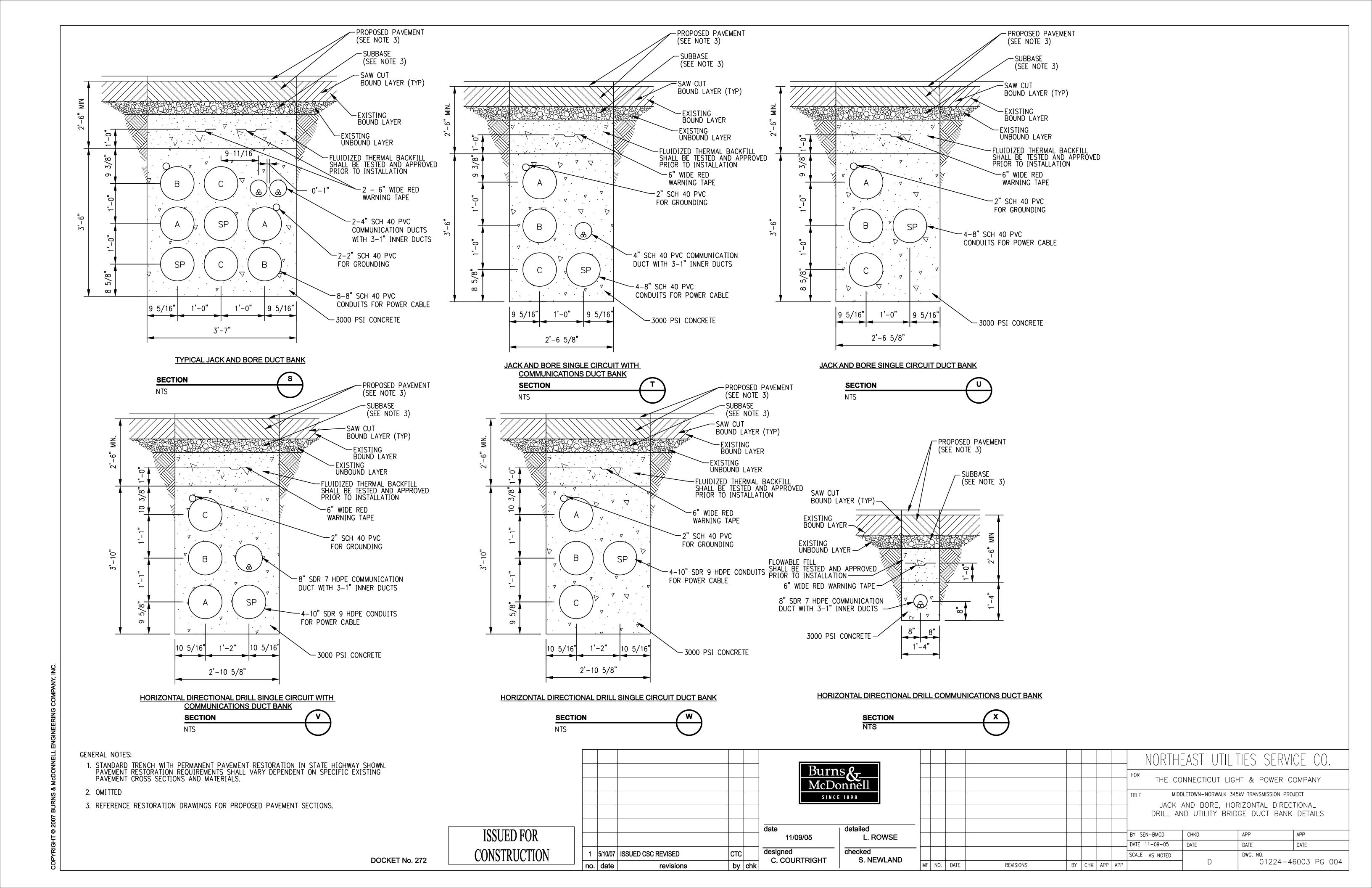
DOCKET No. 272

NORTHEAST UTILITIES SERVICE CO. Burns & ______ McDonnell THE CONNECTICUT LIGHT & POWER COMPANY MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT CONDUIT TRANSITIONS detailed BY SEN-BMCD L. ROWSE 07/05/06 DATE 7-05-06 DATE DATE DATE designed by chk checked 1 5/10/07 ISSUED CSC REVISED DWG. NO. 01224-45003 PG 010 SCALE AS NOTED C. COURTRIGHT S. NEWLAND no. date MF NO. DATE BY CHK APP APP revisions REVISIONS

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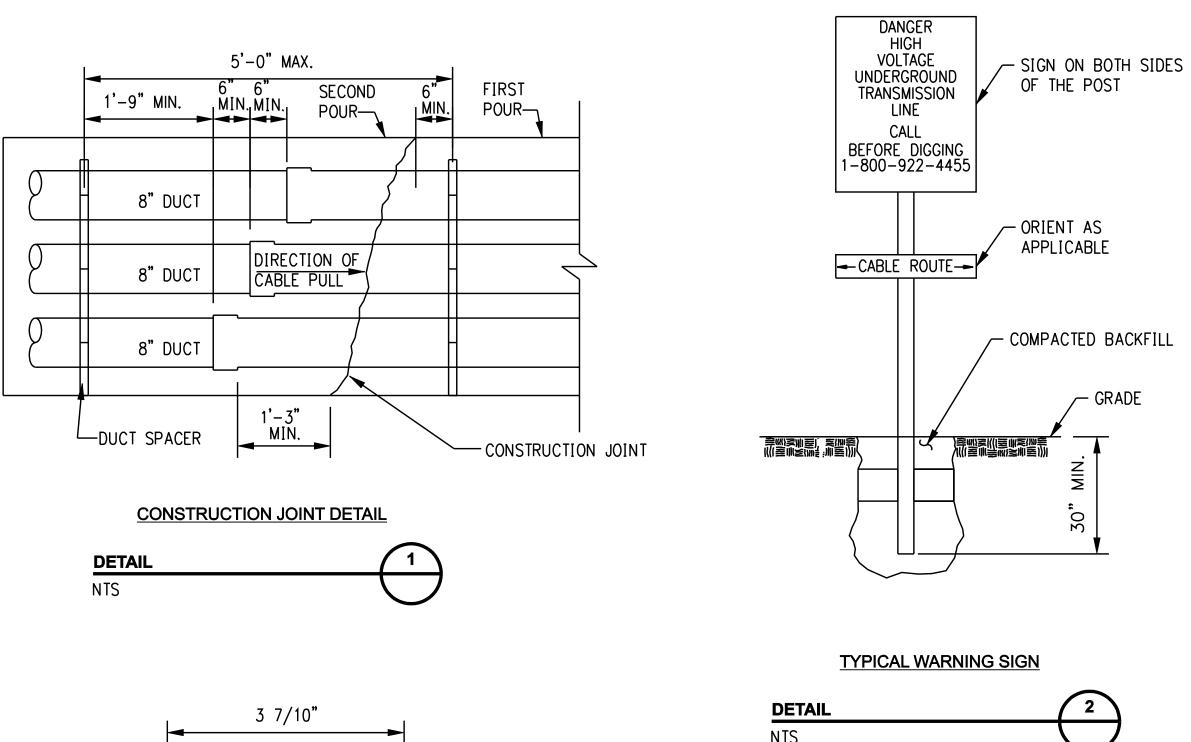
Cable Pulling Direction and Tension

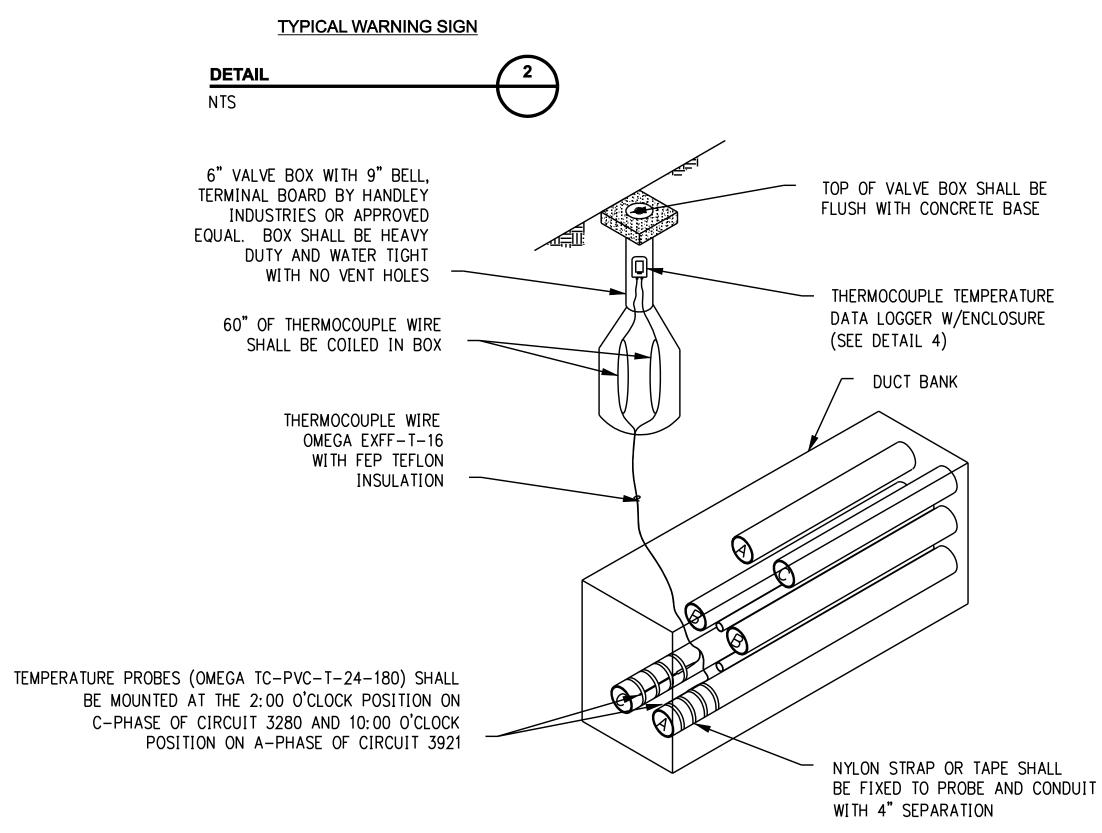
Middletown-Norwalk 345-kV Transmission Line Project Segment 4a Fairfield / Bridgeport, CT

r anneld / Bridgeport, O1								
Cable	Pulling	Calculated	Calculated Maximum					
Dire	ection	Tension	Side Wall Pressure					
From Vault	From Vault To Vault		(lb/ft.)					
28	27	14,400	70					
28	28 29		160					
30	29	17,200	90					
31	30	16,500	80					
31	32	13,000	60					
32	33	14,900	70					
33	34	15,200	90					
34	35	15,000	70					
36	35	12,300	60					
37	36	16,400	80					
38	37	13,900	70					
39	38	16,100	80					
40	39	17,900	90					
41	40	17,900	90					
42	41	16,400	80					
42	43	18,700	90					
44	43	17,500	80					
45	44	15,600	160					
45	46	14,400	60					
46	47	16,000	80					
48	47	14,400	70					
49	48	12,700	120					
49 Singer S/S		15,000	210					

NOTE:

SEE DETAIL 1 FOR DUCT ORIENTATION ASSOCIATED WITH CABLE PULLING DIRECTION.





TMS#	CENTER OF TMS
TMS #27	N 611,630.1505 E 850,675.0285
TMS #28	N 611,523.9665 E 852,249.2726
TMS #29	N 611,583.0540 E 853,495.4609
TMS #30	N 611,961.0901 E 854,579.5611
TMS #31	N 612,197.7550 E 855,944.2670
TMS #32	N 612,477.8326 E 858,052.0574
TMS #33	N 612,486.1150 E 859,527.9207
TMS #34	N 612,736.5599 E 860,521.2335
TMS #35	N 613,987.3226 E 861,496.9199
TMS #36	N 615,029.7810 E 862,966.1310
TMS #37	N 615,497.6819 E 864,154.3341
TMS #38	N 616,697.2940 E 865,361.7531
TMS #39	N 617,723.1277 E 866,757.8564
TMS #40	N 618,024.5818 E 868,328.9554
TMS #41	N 618,509.0794 E 868,835.1411
TMS #42	N 620,077.4475 E 870,023.2459
TMS #43	N 621,723.9584 E 871,246.6564
TMS #44	N 622,126.1488 E 872,469.5201
TMS #45	N 622,262.2011 E 873,758.2749
TMS #46	N 622,455.5780 E 875,448.0147
TMS #47	N 622,553.2226 E 876,800.4095
TMS #48	N 622,774.7563 E 878,344.9066
TMS #49	N 622,107.4520 E 879,728.0028

TEMPERATURE MONITORING STATION TABLE

THERMOCOUPLE TEMPERATURE DATA LOGGER

SPECTRUM THERMOCOUPLE LOGGER 1700

8 5 8 8 5 8

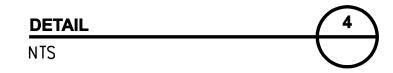
LIQUID TIGHT STRAIN RELIEFS

VERITEQ SP 1700-51N

LOGGER

4-CHANNEL THERMOCOUPLE

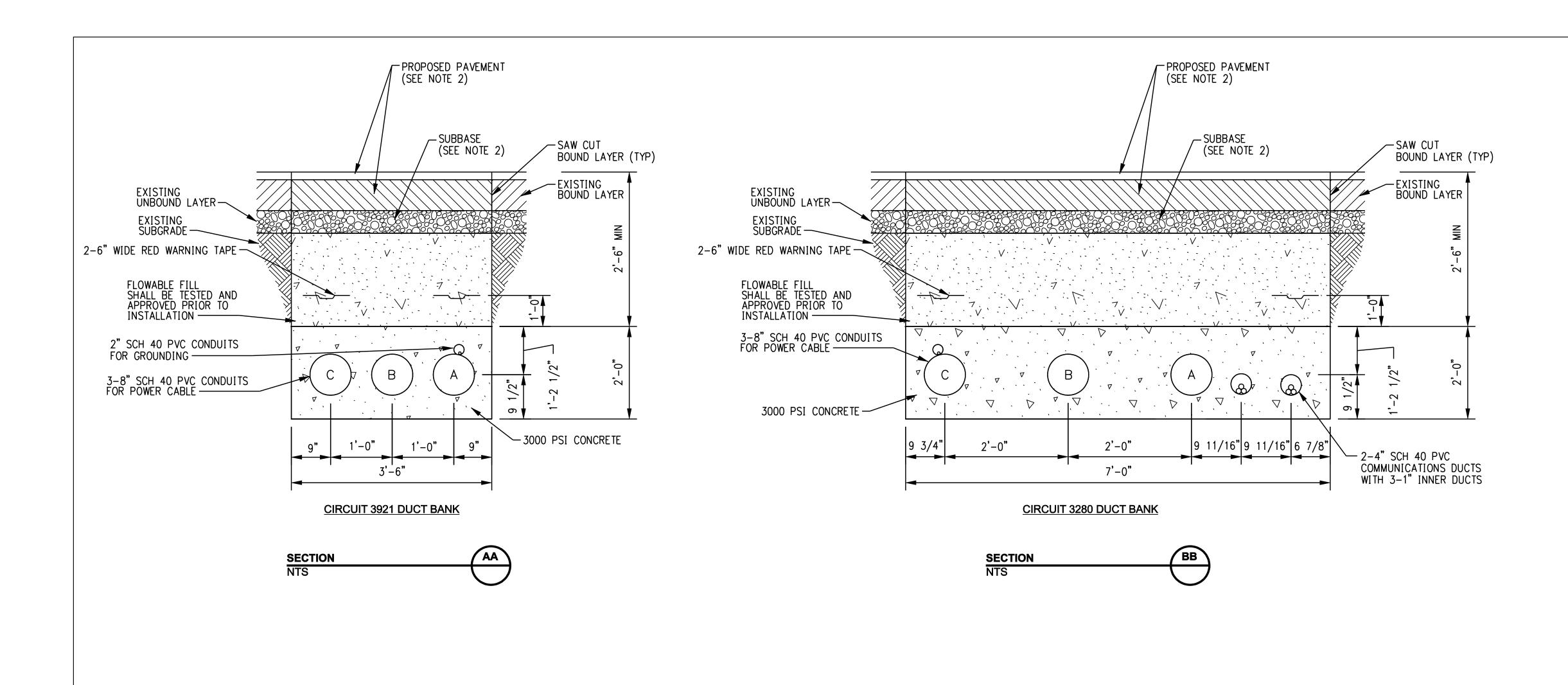
VERITEQ AC-ENC-01
WEATHERPROOF ENCLOSURE —



DETAIL	5
NTS	

TEMPERATURE MONITORING STATION INSTALLATION

		Burns		NORTHEAST UTILITIES SERVICE CO.
		McDonnell SINCE 1898		THE CONNECTICUT LIGHT & POWER COMPANY TITLE MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT
				CABLE AND TEMPERATURE MONITORING DETAILS
ISSUED FOR		date detailed 11/09/05 L. ROWSE		BY SEN-BMCD CHKD APP APP
CONSTRUCTION	1 5/10/07 ISSUED CSC REVISED CTC	designed checked		DATE 11-09-05 DATE DATE DATE SCALE AS NOTED DWG. NO.
	no. date revisions by chk	C. COURTRIGHT S. NEWLAND	MF NO. DATE REVISIONS BY CHK APP	D



GENERAL NOTES:

STANDARD TRENCH WITH PERMANENT PAVEMENT RESTORATION IN STATE HIGHWAY SHOWN, PAVEMENT RESTORATION REQUIREMENTS SHALL VARY DEPENDENT ON SPECIFIC EXISTING PAVEMENT CROSS SECTIONS AND MATERIALS.

2. REFERENCE RESTORATION DRAWINGS FOR PROPOSED PAVEMENT SECTIONS.

						Burn
						McDo
						SINCE
					date	
					10/19	9/06
1	5/10/07	ISSUED CSC REVISED	стс		designed	
no.	date	revisions	by	chk	BL COIVII	ANIES
	<u> </u>					1 5/10/07 ISSUED CSC REVISED CTC designed BL COMI

ANIES				
_AND				
-7110	MF	NO.	DATE	

			FOR	
			TH	E CONNECTICUT LIGHT & POWER COMPA
			TITLE	MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT
				SINGER SS DUCT BANK DETAILS

BY SEN-BMCD

NORTHEAST UTILITIES SERVICE CO.

DOCKET No. 272

ISSUED FOR CONSTRUCTION

BL COMPA checked S. NEWLA

detailed

DATE 10-19-06 SCALE AS NOTED REVISIONS BY CHK APP APP

CHKD DATE

DATE DATE DWG. NO.

01224-46003 PG 007

