

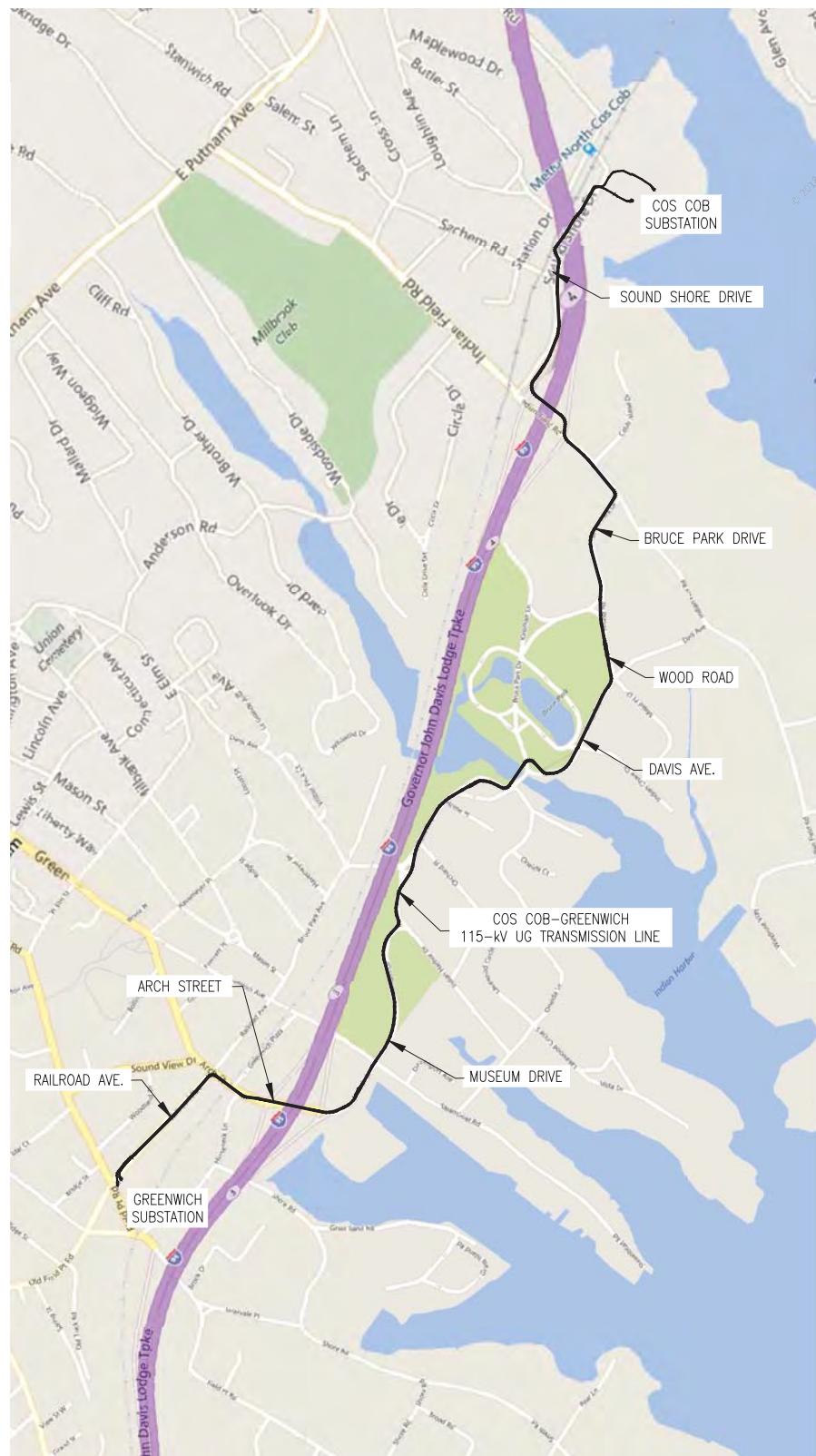
Appendix B:
115-kV Double-Circuit Underground Transmission Line Drawings

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LINE 1020 & 1703 COS COB - GREENWICH

115-kV UNDERGROUND TRANSMISSION LINE FOR EVERSOURCE ENERGY

VICINITY MAP



GENERAL NOTES

- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO EVERSOURCE ENERGY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1.800.922.4455
- HORIZONTAL DATUM: REFERENCES CONNECTICUT STATE PLAN COORDINATE SYSTEM-NAD83 CONNECTICUT STATE PLAN ZONE, US FOOT. VERTICAL DATUM: NGVD 88 MSL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE COMPLETE 115-kV CABLE SYSTEM FROM TERMINATOR TO TERMINATOR.
- ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED UTILITY PROPERTY.
- ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED. NO DEVIATIONS ALLOWED FROM DESIGNED HORIZONTAL AND VERTICAL BENDING RADII UNLESS PRIOR APPROVAL FROM THE ENGINEER.
- DUCT BANK SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCE OF 3'-0" AND A MINIMUM VERTICAL CLEARANCE OF 2'-6" OVER OR UNDER EXISTING UTILITIES, UNLESS OTHERWISE SHOWN ON DRAWINGS. NOTIFY ENGINEERING OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT INFRINGE ON THE REQUIRED CLEARANCES.
- DUCT BANK SHALL MAINTAIN A MINIMUM OF 3 FT. COVER OF DEPTH UNLESS SHOWN ON DRAWINGS OR APPROVED BY THE ENGINEER
- FOR ANY AREAS DISTURBED BY CONSTRUCTION, AT COMPLETION OF CONSTRUCTION ACTIVITIES, THESE AREAS WILL BE SUBSTANTIALLY RESTORED TO THEIR PRECONSTRUCTION CONDITIONS.
- CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, REPAIRING, AND STRIPING ALL PAVEMENT, DRIVEWAYS, CURBS, AND SIDEWALKS, DISTURBED DUE TO CONSTRUCTION, IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. ALL REPLACEMENTS AND REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF GREENWICH AND CONDOT STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE APPLICABLE UTILITY SPECIFICATION, LOCAL AND/OR STATE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ABANDONED CONDUIT AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE LOCAL AND/OR STATE REQUIREMENTS. CUT AND CAP ABANDONED UTILITIES (DO NOT CUT GAS LINES).
- DEPTH OF CROSSING UTILITY LATERALS HAVE NOT BEEN VERIFIED ON ALL UTILITIES.
- DEPTHS OF UTILITIES IDENTIFIED AS ABANDONED WERE NOT VERIFIED AND ARE ASSUMED IN DRAWINGS.
- CONTRACTOR SHALL PLUG ALL CONDUIT SYSTEMS DAILY WHEN WORK IS CEASED. ALL CONDUIT INSTALLATION WORK SHALL BE PERFORMED BY A VALIDATED, LICENSED ELECTRICAL CONTRACTOR OR BE UNDER THE DAILY SUPERVISION THERE OF.

	CATCH BASIN
	ROUND CATCH BASIN
	CATCH BASIN AS DEPICTED BY AERIAL
	MAIL BOX
	ELECTRIC HANDHOLE
	DRAIN MANHOLE
	MANHOLE
	MANHOLE AS DEPICTED BY AERIAL
	SEWER MANHOLE
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	WATER MANHOLE
	WATER GATE
	FIRE HYDRANT
	GAS GATE
	STREET SIGN
	EDGE OF PAVEMENT
	CURB
	STEEL GUARD RAIL
	FENCE
	TREE LINE
	RETAINING WALL
	UNDERGROUND ELECTRIC LINE (SUE-B)
	UNDERGROUND ELECTRIC LINE (SUE-C)
	UNDERGROUND ELECTRIC LINE (SUE-D)
	UNDERGROUND GAS LINE (SUE-B)
	UNDERGROUND GAS LINE (SUE-C)
	UNDERGROUND GAS LINE (SUE-D)
	UNDERGROUND WATER LINE (SUE-B)
	UNDERGROUND WATER LINE (SUE-C)
	UNDERGROUND WATER LINE (SUE-D)
	UNDERGROUND TELEPHONE LINE (SUE-B)
	UNDERGROUND TELEPHONE LINE (SUE-C)

	UNDERGROUND TELEPHONE LINE
	VERIZON TELEPHONE
	STEVE PARETTI 828 NORTHSIDE RD PO BOX 600 CHARLTON MA 01507-0600 508-248-1305 STEPHEN.PARETTI@VERIZON.COM
	AT&T LOCAL SERVICES MICHAEL BYRNE 153 MARKET STREET, 5TH FLOOR HARTFORD, CT 06103
	UNDERGROUND CABLE TELEVISION LINE
	CABLEVISION JOHN GANSER, DESIGN DEPT. 28 CROSS STREET NORWALK, CT 06851 203-750-5461
	UNDERGROUND ELECTRIC LINE
	EVERSOURCE WAYNE GAGNON / ENGINEERING EVERSOURCE ENERGY PO BOX 270 HARTFORD, CT 06141 WAYNE.GAGNON@EVERSOURCE.COM
	UNDERGROUND GAS LINE
	CONNECTICUT NATURAL GAS ROBERT CARINO 16 OLD TRACK RD, BLDG B GREENWICH, CT 06830 203-869-6900

	UNDERGROUND TELEPHONE LINE (SUE-D)
	UNDERGROUND FORCE MAIN
	UNDERGROUND FIBER OPTIC (SUE-B)
	UNDERGROUND FIBER OPTIC (SUE-C)
	UNDERGROUND FIBER OPTIC (SUE-D)
	UNDERGROUND TELEVISION LINE (SUE-C)
	UNDERGROUND TELEVISION LINE (SUE-D)
	UNDERGROUND SEWER LINE
	UNDERGROUND DRAIN LINE
	ASPHALT COATED CORRUGATED METAL PIPE
	REINFORCED CONCRETE PIPE
	POLYVINYL CHLORIDE PIPE
	DUCTILE IRON PIPE
	CORRUGATED METAL PIPE
	CORRUGATED PLASTIC PIPE
	VITRIFIED CLAY PIPE
	CATCH BASIN
	MANHOLE
	DRAIN MANHOLE
	SEWER MANHOLE
	RIM ELEVATION
	INVERT ELEVATION
	TYPICAL
	GAS METER
	HAND HOLE
	WATER METER
	TRANSFORMER
	STEEL SPAN POLE
	TRAFFIC CONTROL BOX
	BILLBOARD
	TREE
	SHRUB
	UNKNOWN FEATURE AS DEPICTED BY AERIAL
	UTILITY POLE AS DEPICTED BY AERIAL

LEGEND/UTILITY CONTACTS

	UNDERGROUND FIBER OPTICS LINE
	FIBER TECH NETWORKS LLC JAY SCHREIBER/NOCC 300 MERIDIAN CENTRE ROCHESTER, NY 14618 585-568-8405 JSCHREIBER@FIBERTECH.COM
	LEVEL (3) COMMUNICATIONS MATT WILLIAMS 1025 ELDORADO BLVD. #14C BROOMFIELD, CO 80021 720-888-3813 LEVEL3.NETWORKRELOCATIONS@LEVEL3.COM
	MCI WORLDCOM DEAN BOYERS, ENGINEER LL SPEC. 2400 N. GLENVILL DR RICHARDSON, TX 75082 972-729-6322
	UNDERGROUND DRAINAGE LINE
	TOWN OF GREENWICH JAMES MICHEL, P.E. DEPUTY DPW COMMISSIONER 101 FIELD POINT ROAD GREENWICH, CT 06830 203-622-7767
	CT DEPT. OF TRANSPORTATION ROBERT J. BARON, P.L.S. MANAGER OF SURVEY OPERATIONS - STATE DRAINAGE MAPPING 2800 BERLIN TPKE NEWINGTON, CT 06131-7546 860-594-2509 ROBERT.BARON@CT.GOV
	UNDERGROUND WATER LINE
	AQUARION WATER OF CONNECTICUT ROBERT PAGE 600 LINDLEY ST. BRIDGEPORT, CT. 06600 203-337-5997 RPAGE@AQUARIONWATER.COM
	UNDERGROUND SANITARY LINES
	TOWN OF GREENWICH RICHARD FEMINELLA, P.E. WASTEWATER DIVISION MANAGER 101 FIELD POINT ROAD GREENWICH, CT 06830 203-622-7760

D&M PLAN SUBMITTAL 10/02/2018



LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE COVER SHEET GREENWICH, CONNECTICUT							
BY	BWF	CHKD	DM	APP	LH	APP	
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE	
H-SCALE	N.T.S.	SIZE	D	SURVEY JOB #			
V-SCALE	N.T.S.	V.S.		R.E. DWG			
R.E. PROJ. NUMBER							NSUCO
							01242-71001PG01

EVSOURCE ENERGY
PROJECT NUMBER:
403813

POWER ENGINEERS
PROJECT NUMBER:
138082

EVSOURCE ENERGY
PROJECT ENGINEER:
RICHARD COPPA
(860) 728-4696

POWER ENGINEERS
PROJECT ENGINEER:
LES HINZMAN
(208) 309-3577

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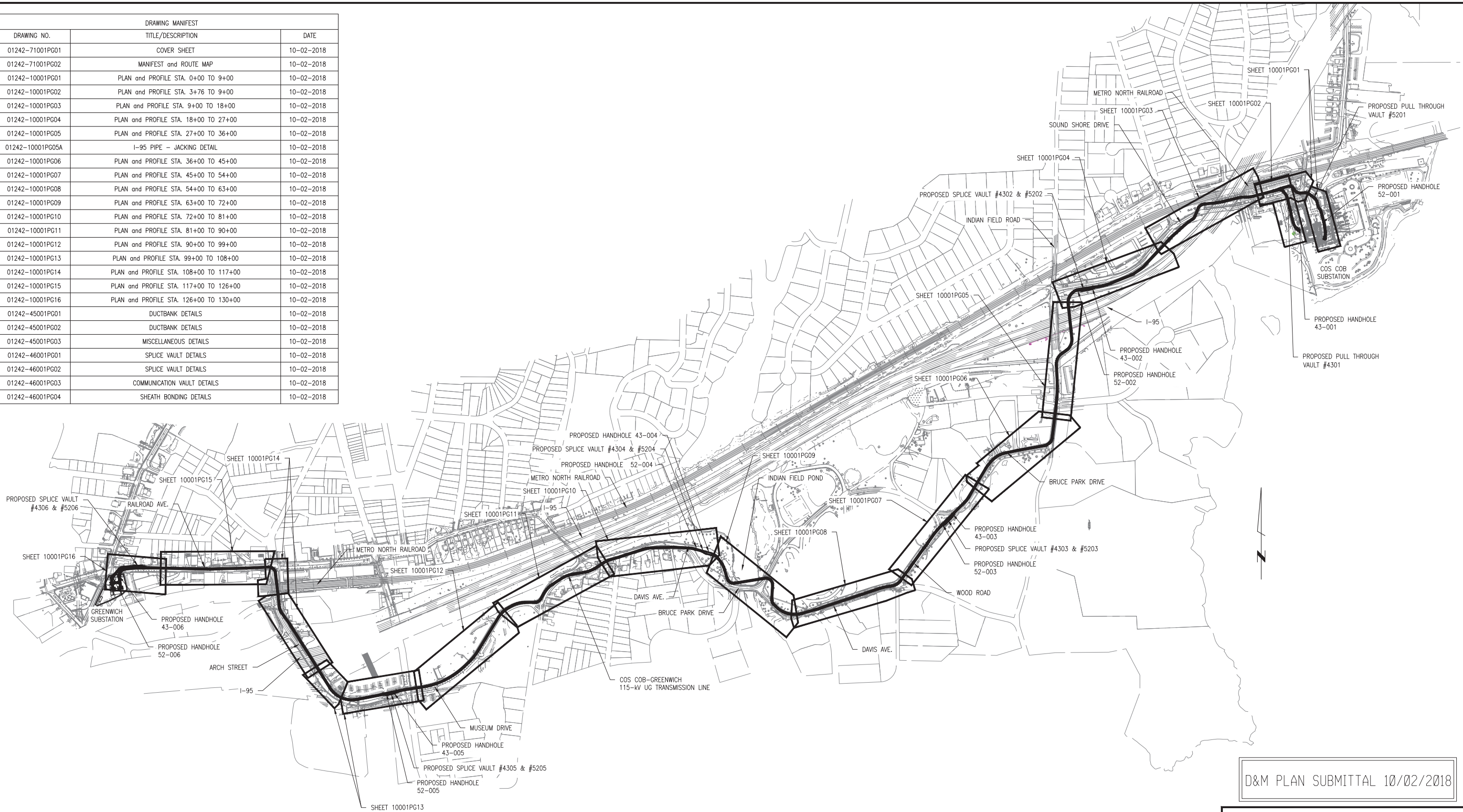


"FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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9/27/2018 2:54 PM - joneal - R:\SIP\projects\138082\DWG\08 Const_Dwg\01242-71001PG02 Manifest and Route Map.dwg - 01242-71001PG02 Manifest and Route Map.dwg

DRAWING MANIFEST		
DRAWING NO.	TITLE/DESCRIPTION	DATE
01242-71001PG01	COVER SHEET	10-02-2018
01242-71001PG02	MANIFEST and ROUTE MAP	10-02-2018
01242-10001PG01	PLAN and PROFILE STA. 0+00 TO 9+00	10-02-2018
01242-10001PG02	PLAN and PROFILE STA. 3+76 TO 9+00	10-02-2018
01242-10001PG03	PLAN and PROFILE STA. 9+00 TO 18+00	10-02-2018
01242-10001PG04	PLAN and PROFILE STA. 18+00 TO 27+00	10-02-2018
01242-10001PG05	PLAN and PROFILE STA. 27+00 TO 36+00	10-02-2018
01242-10001PG05A	I-95 PIPE - JACKING DETAIL	10-02-2018
01242-10001PG06	PLAN and PROFILE STA. 36+00 TO 45+00	10-02-2018
01242-10001PG07	PLAN and PROFILE STA. 45+00 TO 54+00	10-02-2018
01242-10001PG08	PLAN and PROFILE STA. 54+00 TO 63+00	10-02-2018
01242-10001PG09	PLAN and PROFILE STA. 63+00 TO 72+00	10-02-2018
01242-10001PG10	PLAN and PROFILE STA. 72+00 TO 81+00	10-02-2018
01242-10001PG11	PLAN and PROFILE STA. 81+00 TO 90+00	10-02-2018
01242-10001PG12	PLAN and PROFILE STA. 90+00 TO 99+00	10-02-2018
01242-10001PG13	PLAN and PROFILE STA. 99+00 TO 108+00	10-02-2018
01242-10001PG14	PLAN and PROFILE STA. 108+00 TO 117+00	10-02-2018
01242-10001PG15	PLAN and PROFILE STA. 117+00 TO 126+00	10-02-2018
01242-10001PG16	PLAN and PROFILE STA. 126+00 TO 130+00	10-02-2018
01242-45001PG01	DUCTBANK DETAILS	10-02-2018
01242-45001PG02	DUCTBANK DETAILS	10-02-2018
01242-45001PG03	MISCELLANEOUS DETAILS	10-02-2018
01242-46001PG01	SPLICE VAULT DETAILS	10-02-2018
01242-46001PG02	SPLICE VAULT DETAILS	10-02-2018
01242-46001PG03	COMMUNICATION VAULT DETAILS	10-02-2018
01242-46001PG04	SHEATH BONDING DETAILS	10-02-2018



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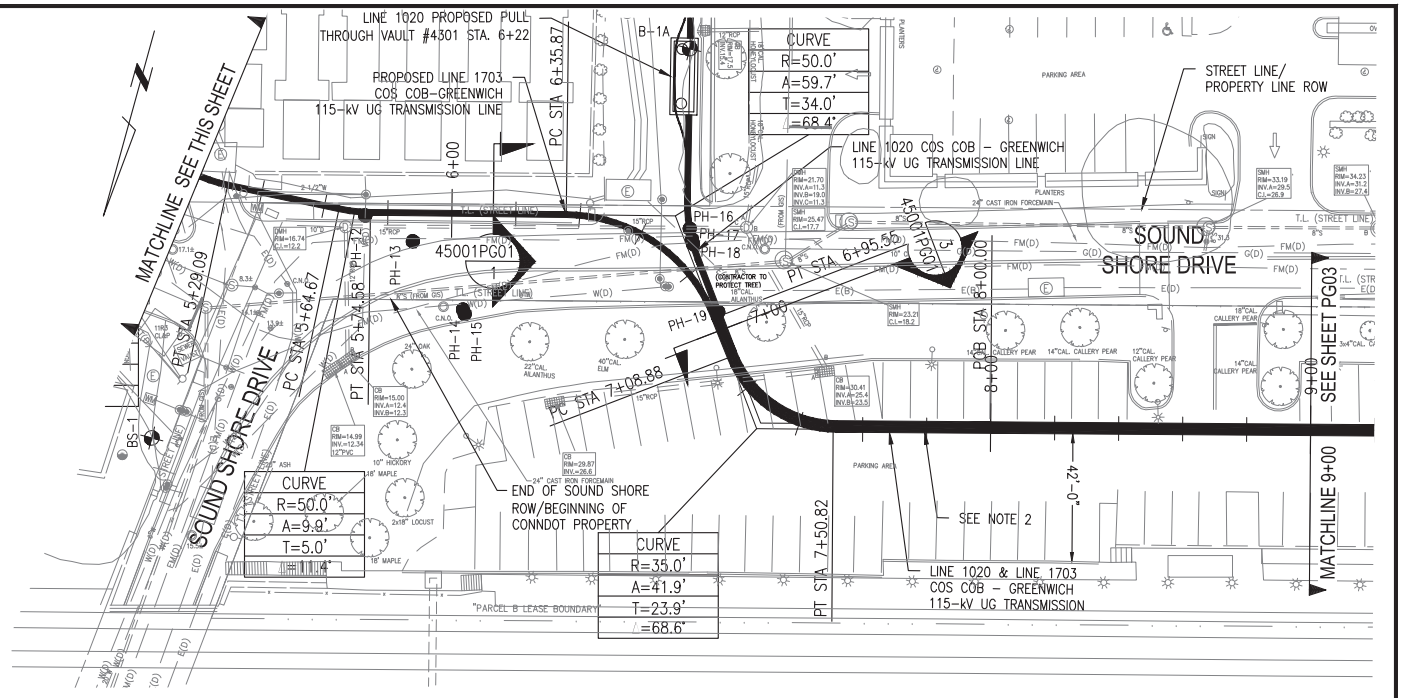
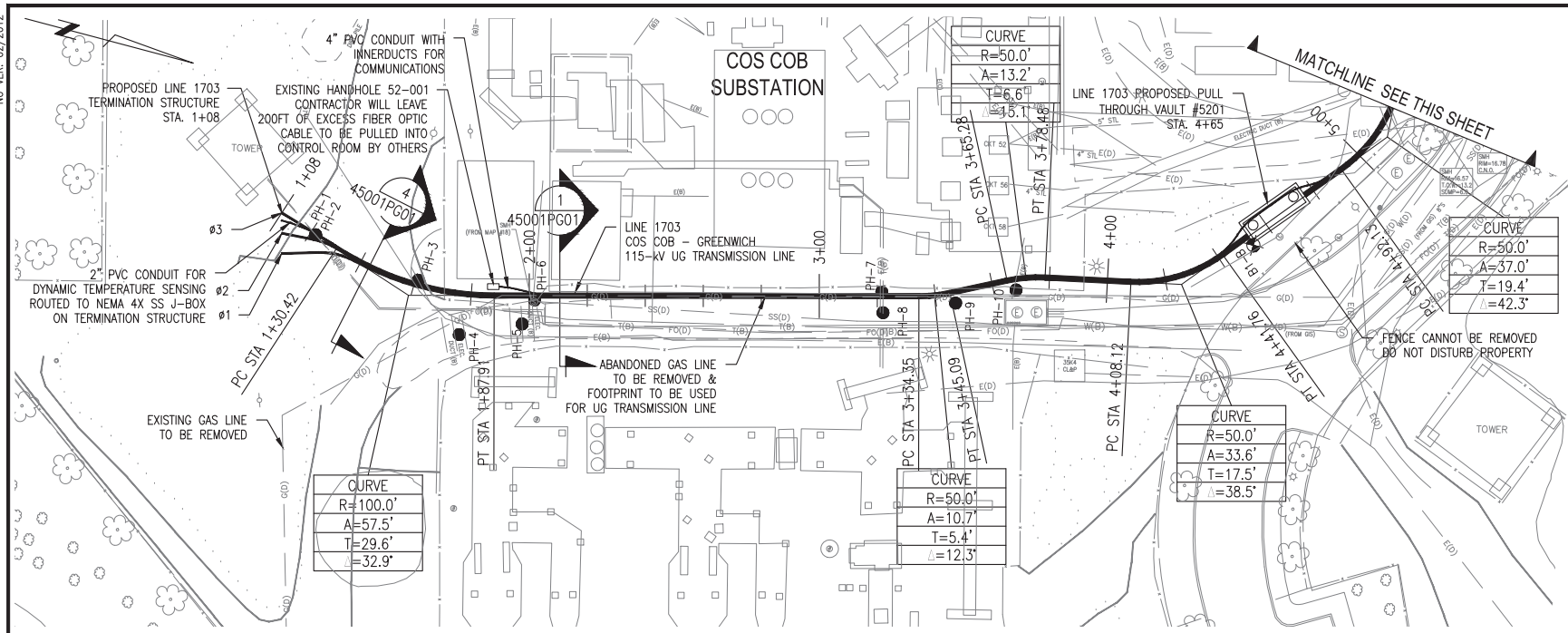

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EVERSOURCE ENERGY					
LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE MANIFEST and ROUTE MAP GREENWICH, CONNECTICUT					
BY	BWF	CHKD	DM	APP	LH
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18
H-SCALE	N.T.S.	SIZE	ID	FIELD BOOK & PAGES	
V-SCALE	N.T.S.	V.S.		R.E. DWG	
R.E. PROJ. NUMBER					NUSCO
					01242-71001PG02

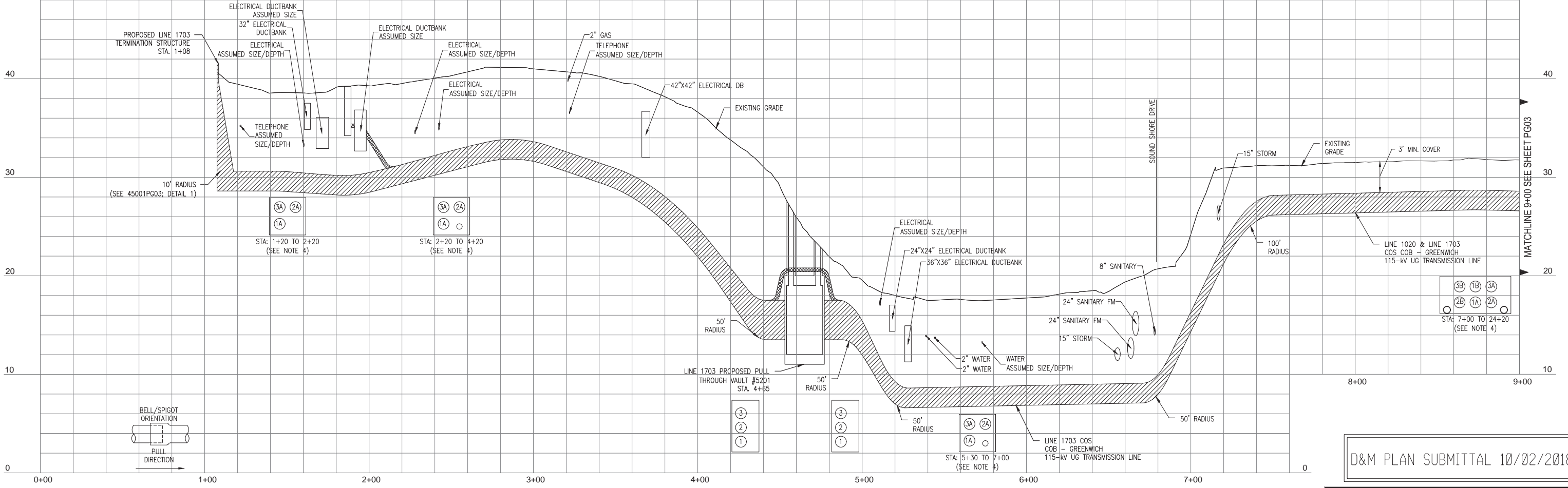
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← COS COB SUBSTATION

→ GREENWICH SUBSTATION



NOTE

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- CONTRACTOR TO ADD RED DYE TO THE THERMALLY APPROVED CONCRETE ENCASEMENT MIX DESIGN.
- TREES ALONG ROUTE MARKED WITH "WP" (WHITE PAINT) TO BE REMOVED.
- TREES TO BE REMOVED PER CONDOT FORM 817-9.49 AND FORM 817-M.13.
- ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.

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D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

TITLE **LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE STA 1+00 TO 9+00 GREENWICH, CONNECTICUT**

DATE	BY	CHKD	DATE	APP	DATE
10-02-18	BWF	DM	10-02-18	LH	

V-SCALE 1" = 30'
H-SCALE 1" = 5'

R.E. DWG
R.E. PROJ. NUMBER

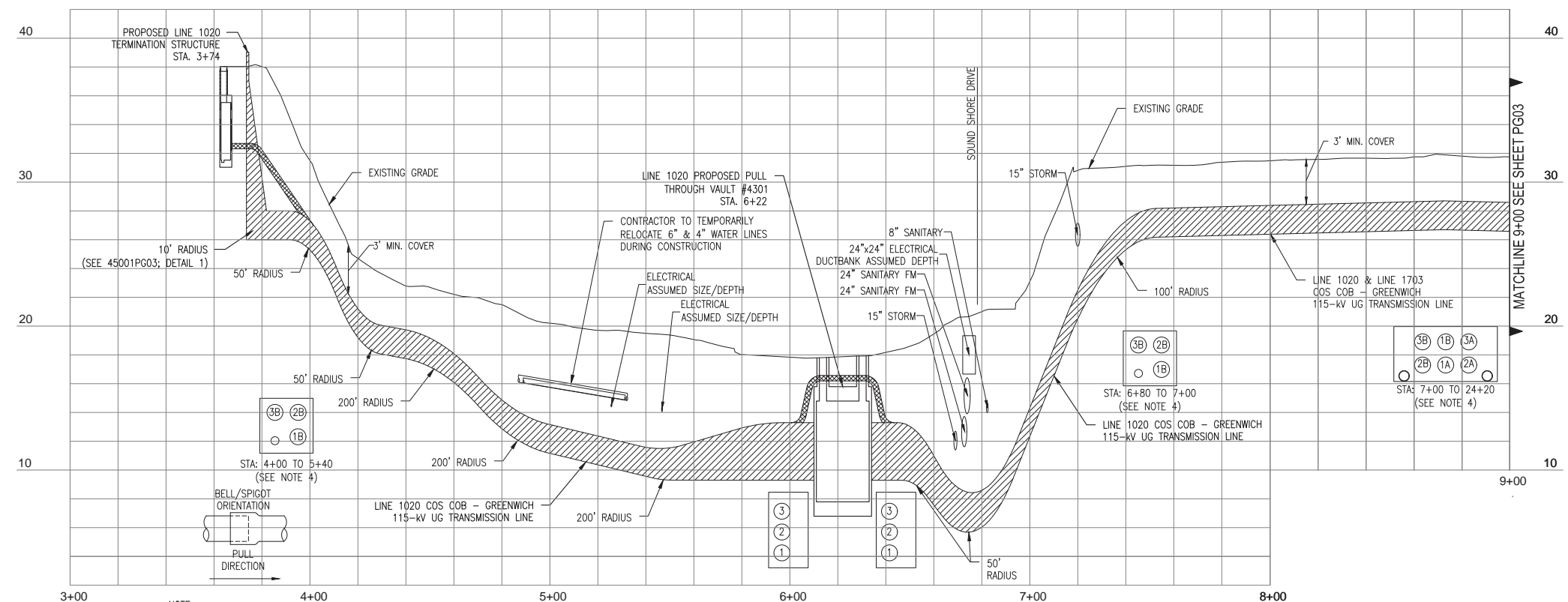
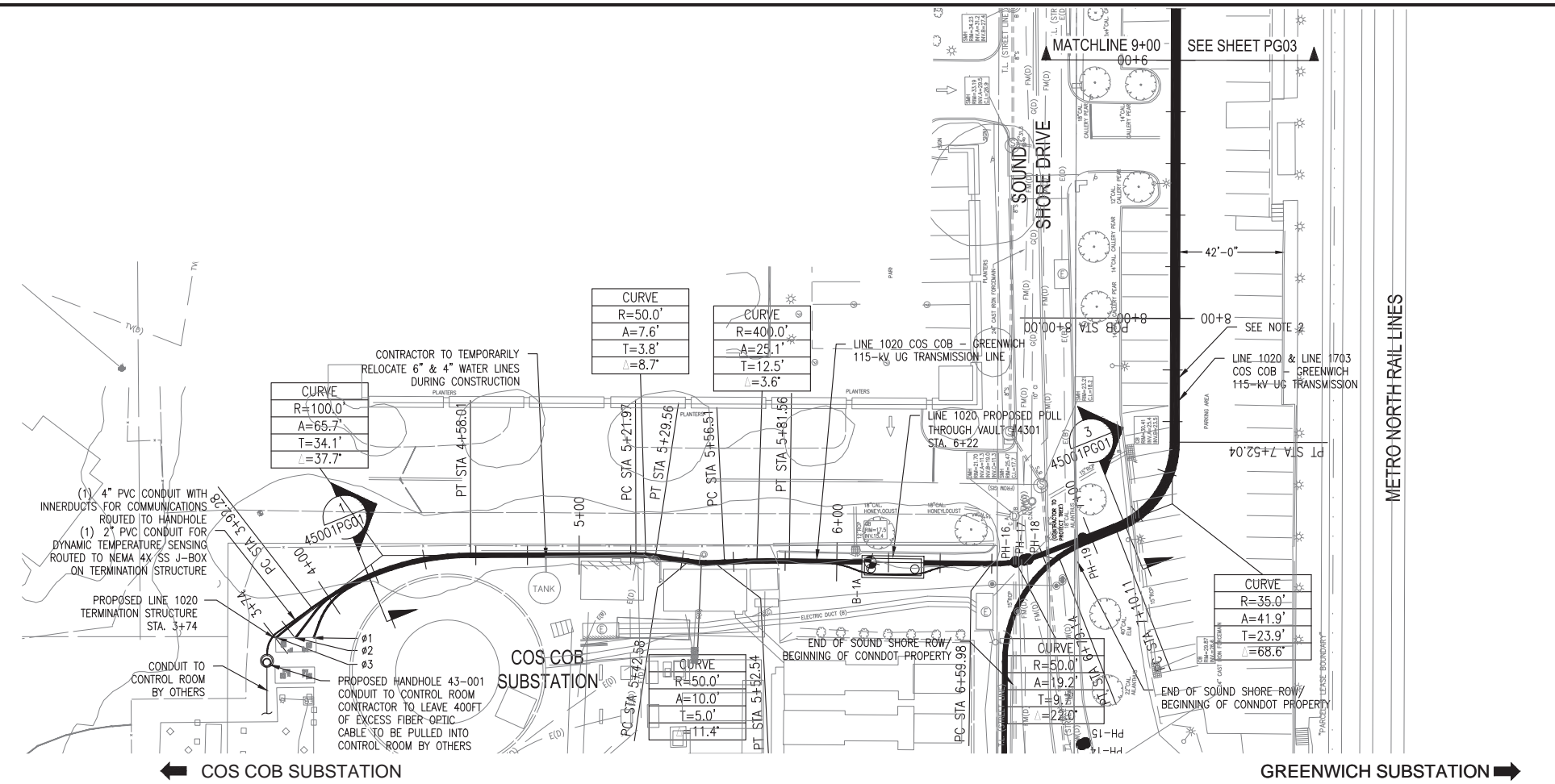
FIELD BOOK & PAGES
R.E. DWG
NUSCO

91242-10001PG01

"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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NU VER: 02/2012



- NOTE**
- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO EVERSOURCE ENERGY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1.800.922.4455.
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"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

D&M PLAN SUBMITTAL 10/02/2018

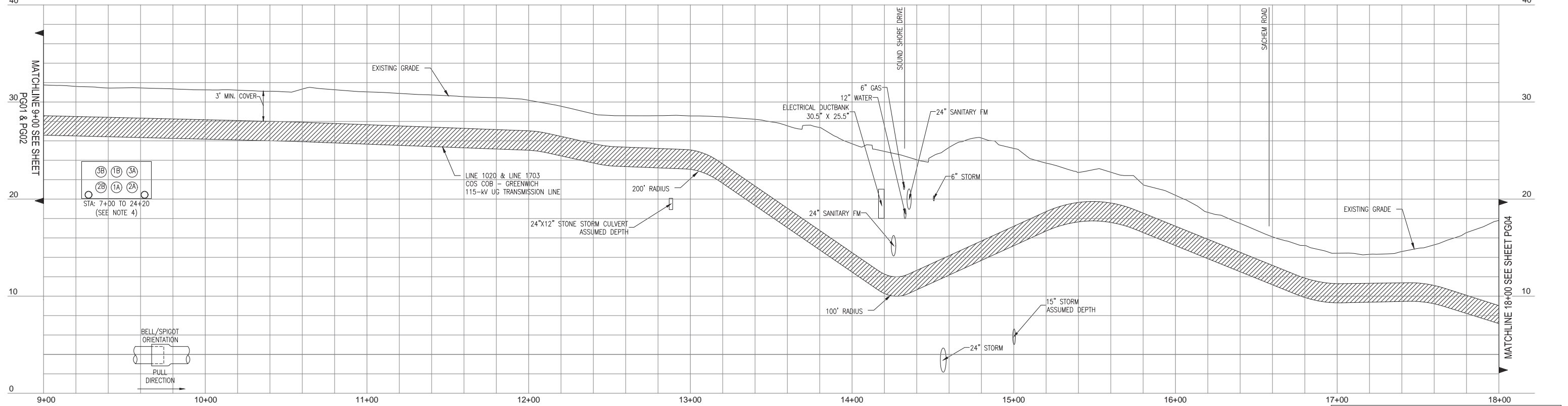
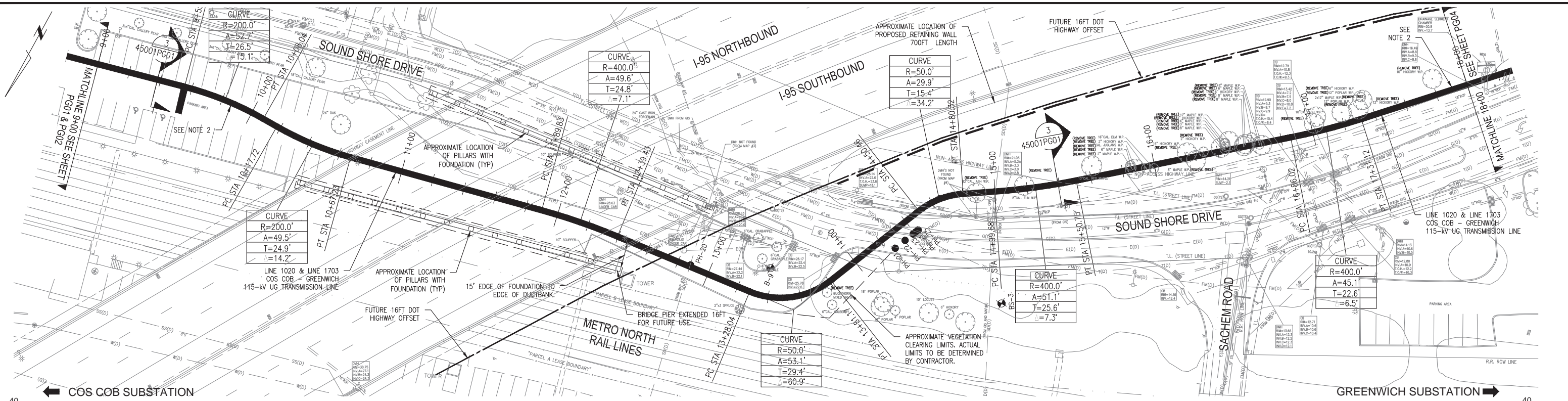
**LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
PLAN and PROFILE STA 3+00 TO 9+00
GREENWICH, CONNECTICUT**

DATE	BY	CHKD	APP	DATE	BY	CHKD	APP
10-02-18	EWF	DM	LH	10-02-18	EWF	DM	LH

H-SCALE: 1" = 30'
V-SCALE: 1" = 5'

R.E. PROJ. NUMBER: NUSCO 01242-10001PG02

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 NU VER: 02/2012



D&M PLAN SUBMITTAL 10/02/2018



LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE STA 9+00 TO 18+00
 GREENWICH, CONNECTICUT

BY	DATE	CHKD	DATE	APP	DATE
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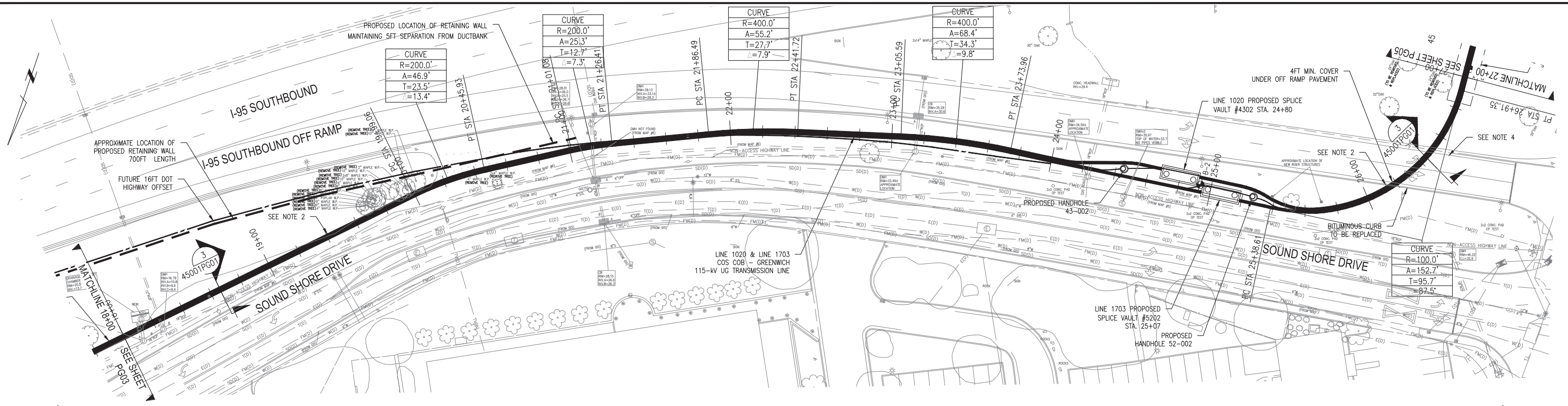
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 R.E. DWG: NUSCO
 PROJECT NUMBER: 01242-1001PG03

- NOTE**
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 - CONTRACTOR TO ADD RED DYE TO THE THERMALLY APPROVED CONCRETE ENCASEMENT MIX DESIGN.
 - TREES ALONG ROUTE MARKED WITH "WP" (WHITE PAINT) TO BE REMOVED.
 - TREES TO BE REMOVED PER CONDOT FORM 817-9.49 AND FORM 817-M.13.
 - ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.

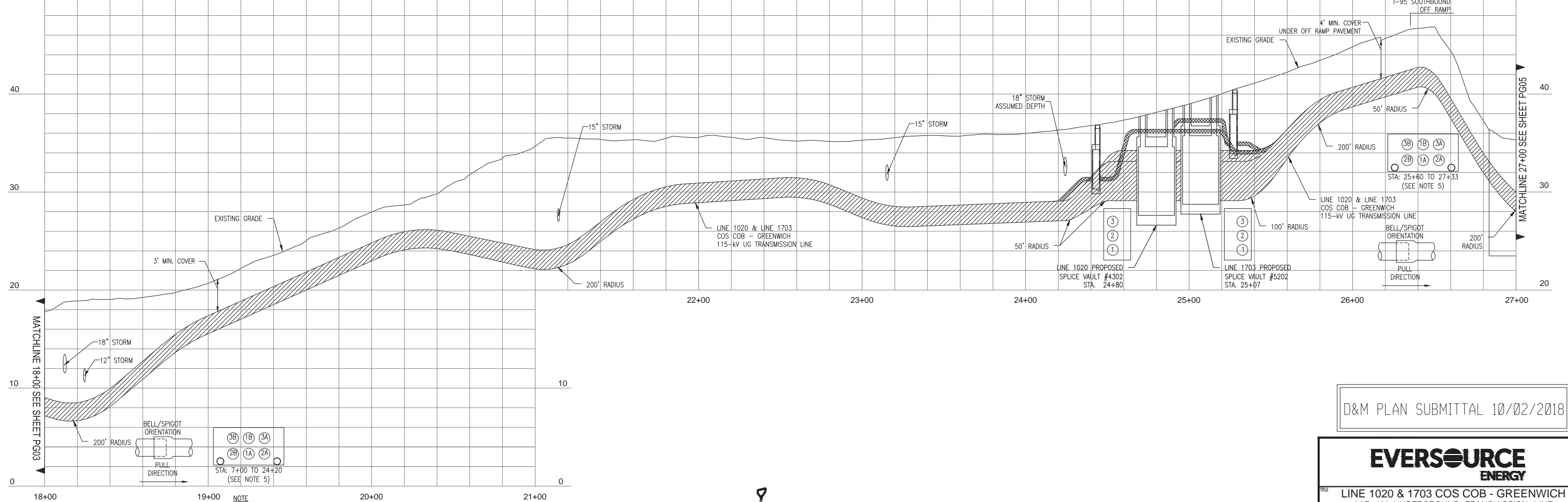
THREE BUSINESS DAYS BEFORE YOU DIG CALL
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"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO
 PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION
 SURVEY ENGINEERING/ROW DEPARTMENT"



50 ← COS COB SUBSTATION GREENWICH SUBSTATION → 50



D&M PLAN SUBMITTAL 10/02/2018



LINE 1020 & 1703 COS COB - GREENWICH
115-KV UNDERGROUND TRANSMISSION LINE
PLAN and PROFILE STA 18+00 TO 27+00
GREENWICH, CONNECTICUT

DATE	BY	CHKD	APP	DATE	BY	CHKD	APP
10-02-18	EWF	DM	LH	10-02-18	EWF	DM	LH

H-SCALE: 1" = 30'
V-SCALE: 1" = 5'

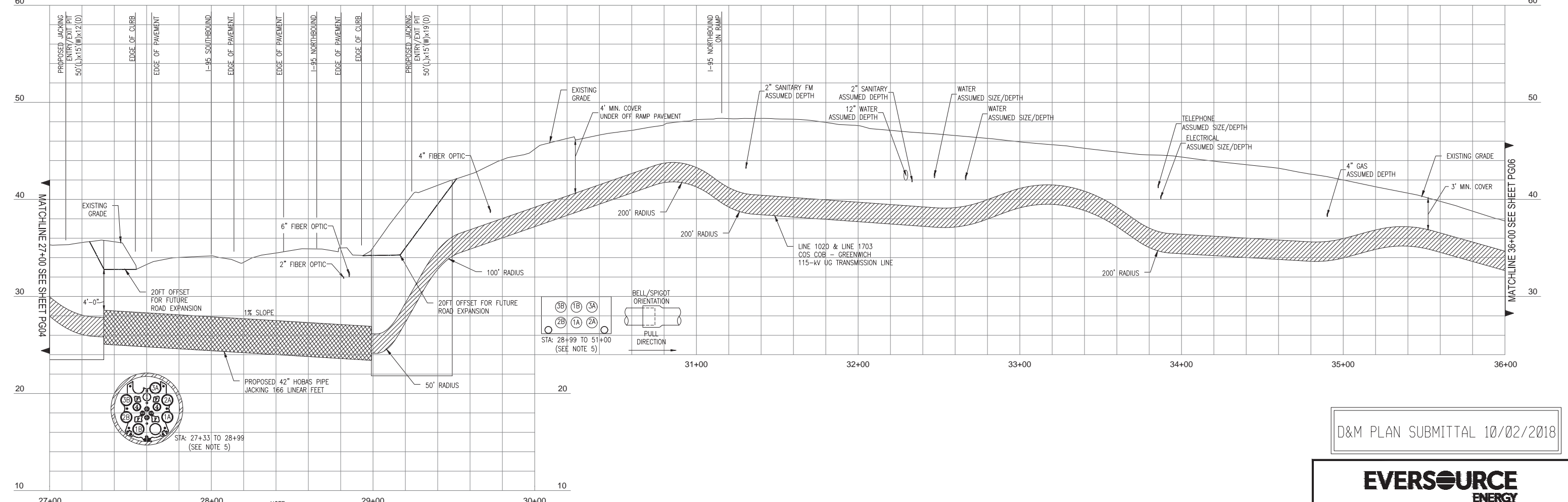
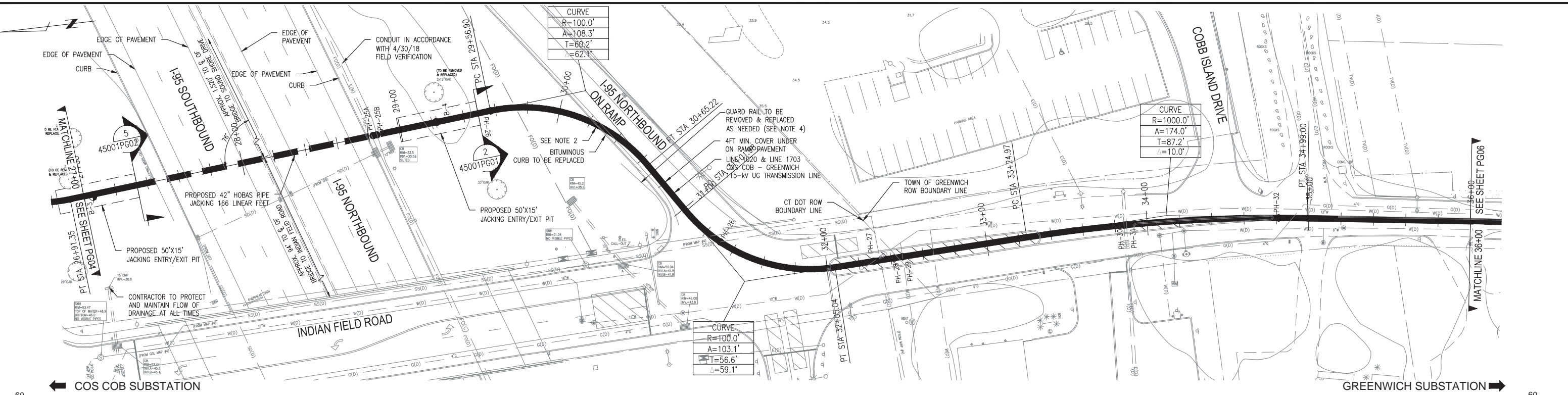
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PROJECT NUMBER: 01242-10001PG04

"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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- TREES TO BE REMOVED PER CONDOT FORM 817-9.49 AND FORM 817-M.13.
- METAL BEAM GUIDE RAIL TO BE REPLACED AT THE END OF EACH WORK DAY.
- ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.

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D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
PLAN and PROFILE STA 27+00 TO 36+00
GREENWICH, CONNECTICUT

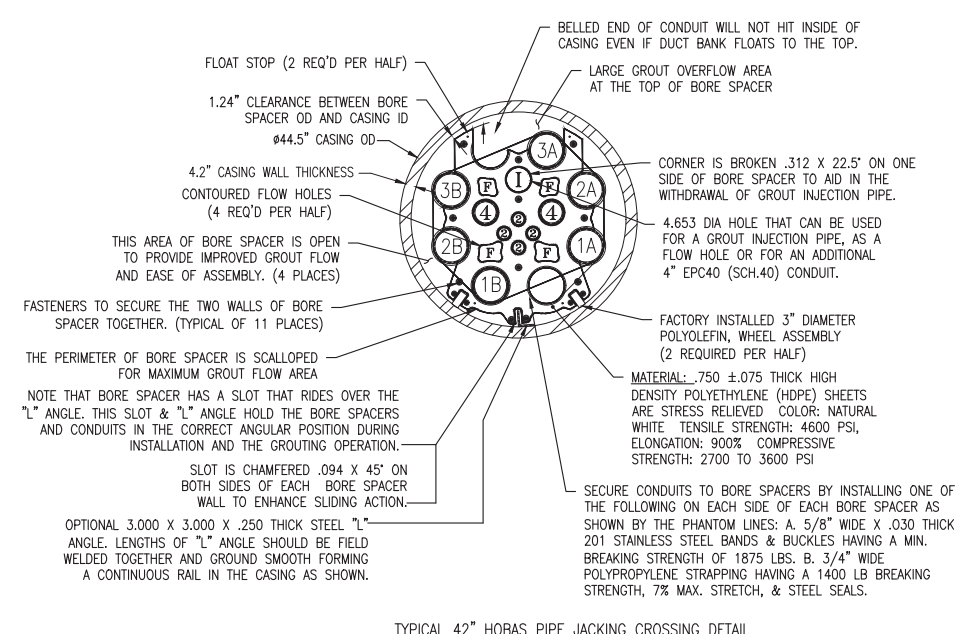
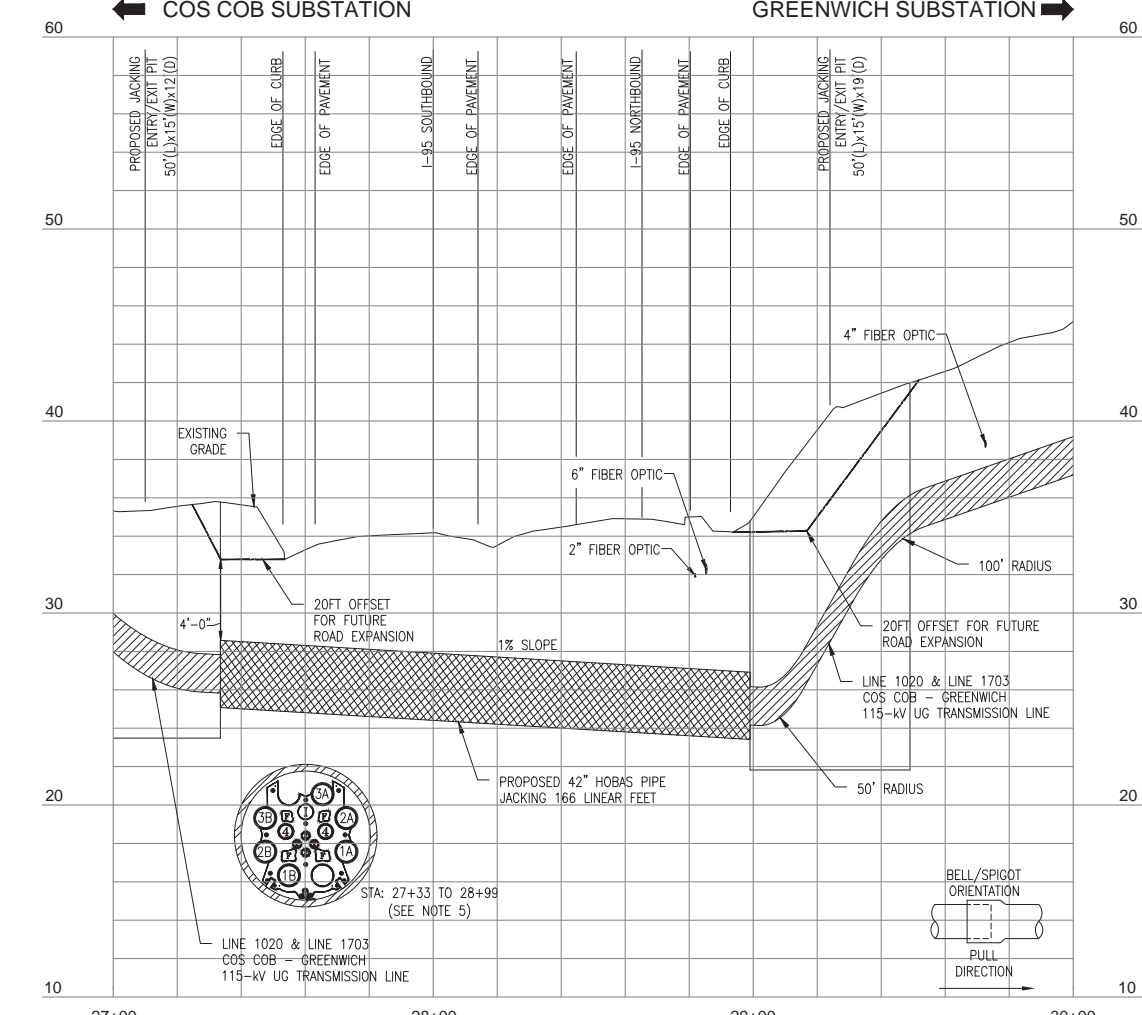
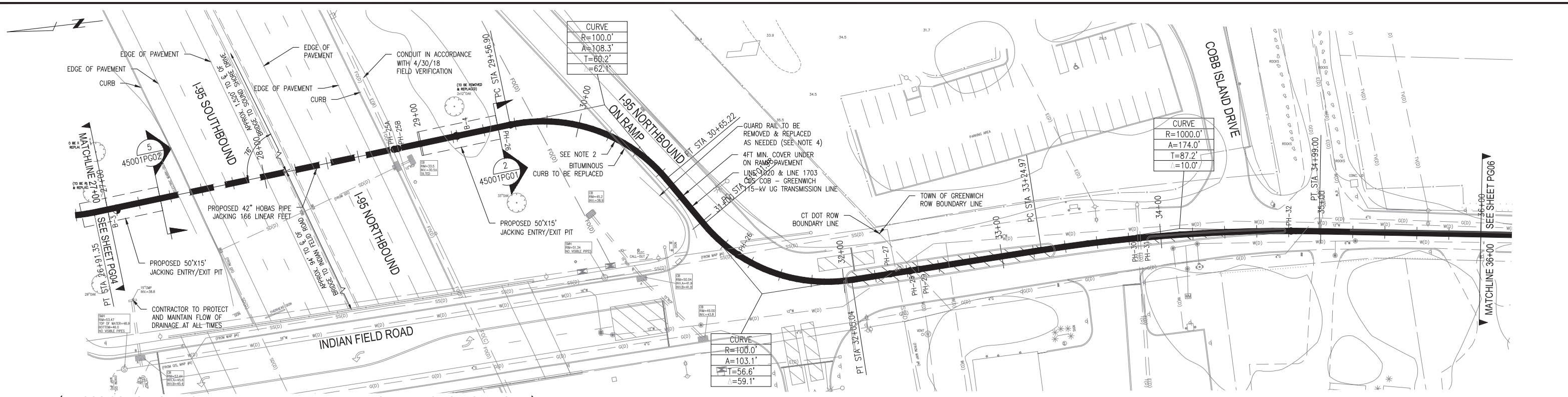
DATE	BY	CHKD	DATE	APP	DATE
10-02-18	BWF	DM	10-02-18	LH	10-02-18

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- CONTRACTOR TO ADD RED DYE TO THE THERMALLY APPROVED CONCRETE ENCASMENT MIX DESIGN.
- TREES ALONG ROUTE MARKED WITH "WP" (WHITE PAINT) TO BE REMOVED.
- TREES TO BE REMOVED PER CONNDOT FORM 817-9.49 AND FORM 817-M.13.
- METAL BEAM GUIDE RAIL TO BE REPLACED AT THE END OF EACH WORK DAY.
- ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.

THREE BUSINESS DAYS BEFORE YOU DIG CALL
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"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"



TYPICAL 42" HOBAS PIPE JACKING CROSSING DETAIL
SCALE N.T.S. 45001PG02

PIPE CROSSING - DATA SHEET		
	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	ELECTRICAL CABLE	CONDUIT/ GROUT
NORMAL OPERATING PRESSURE	0 PSI	0 PSI
NOMINAL SIZE OF PIPE	(6)-6"; (2)-4"; (4)-2"	42"
OUTSIDE DIAMETER	6.625"/4.500"/2.375"	44.5"
INSIDE DIAMETER	6.065"/4.026"/2.067"	40.3"
WALL THICKNESS	.280"/.237"/.154"	4.2"
WEIGHT PER FOOT	4.12/2.30/.73 lbs/ft	255 lbs/ft
MATERIAL	PVC	FIBERGLASS REINFORCED POLYMER MORTAR
PROCESS OF MANUFACTURE	EXTRUDED	CENTRIFUGALLY CAST
SPECIFICATION	NEMA TC 2	ASTM D3262
GRADE OR CLASS	SCHEDULE 40	*
TEST PRESSURE	0 PSI	0 PSI
TYPE OF JOINT	GLUED	BELL AND SPIGOT WITH SEALING GASKET
TYPE OF COATING	N/A	N/A
DETAILS OF CATHODIC PROTECTION	N/A	N/A
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	CONCRETE PLUG
METHOD OF INSTALLATION	PULLING	PIPE JACKING

D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
I-95 PIPE JACKING DETAIL
GREENWICH, CONNECTICUT

REV	BY	DATE	DESCRIPTION
1	DM	10-02-18	ISSUE FOR CONSTRUCTION

DATE: 10-02-18
H-SCALE: 1" = 30'
V-SCALE: 1" = 5'

DATE: 10-02-18
SIZE: D
FIELD BOOK & PAGES

DATE: 10-02-18
R.E. DWG

R.E. PROJ. NUMBER: 101242-10001PG05A

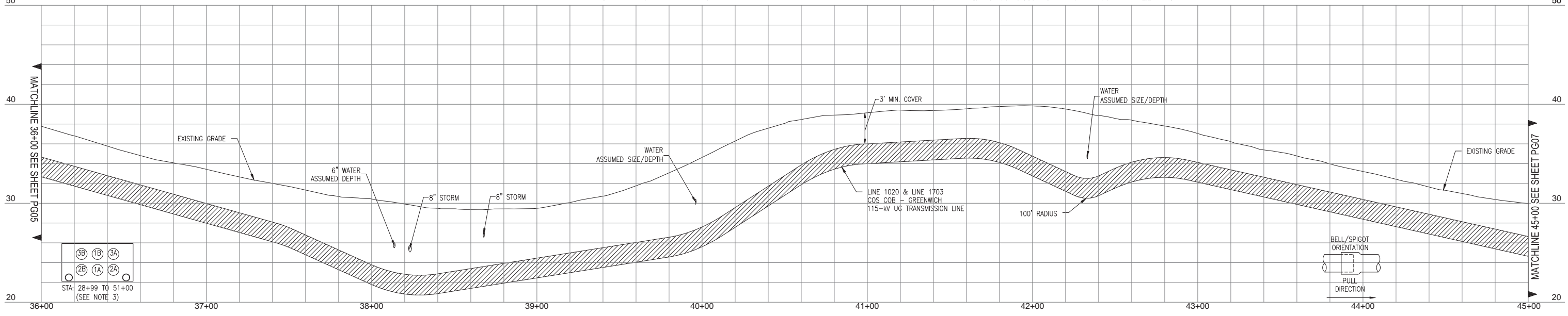
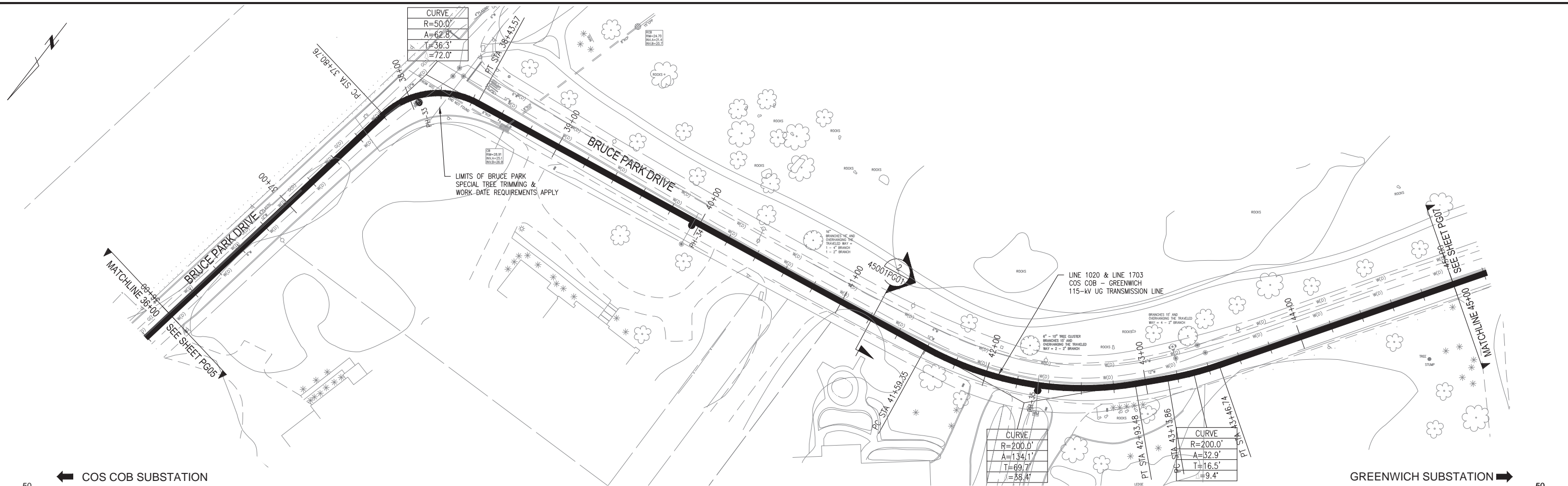
"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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- CONTRACTOR SHALL FILL THE PVC CONDUITS WITH WATER PRIOR TO INSTALLING GROUT.
- THE CONTRACTOR SHALL INSTALL A BULKHEAD INSIDE THE FORWARD END OF THE CASING AT THE END OF EACH DAY.
- METAL BEAM GUIDE RAIL TO BE REPLACED AT THE END OF EACH WORK DAY.
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THREE BUSINESS DAYS BEFORE YOU DIG CALL
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9/27/2018 3:15 PM - joneal - R:\SIP\projects\138682\DWG\08 Const Drawings\01242-10001PG01-Plan & Profile - D&M SUB Titleblocks.dwg - 01242-10001PG06 Plan and Profile
 NU VER: 02/2012



NOTE

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D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

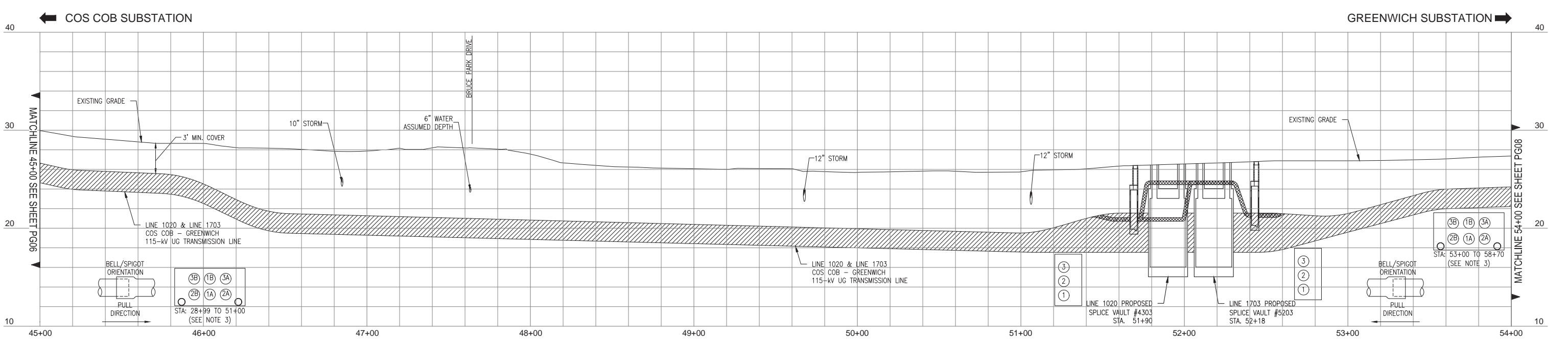
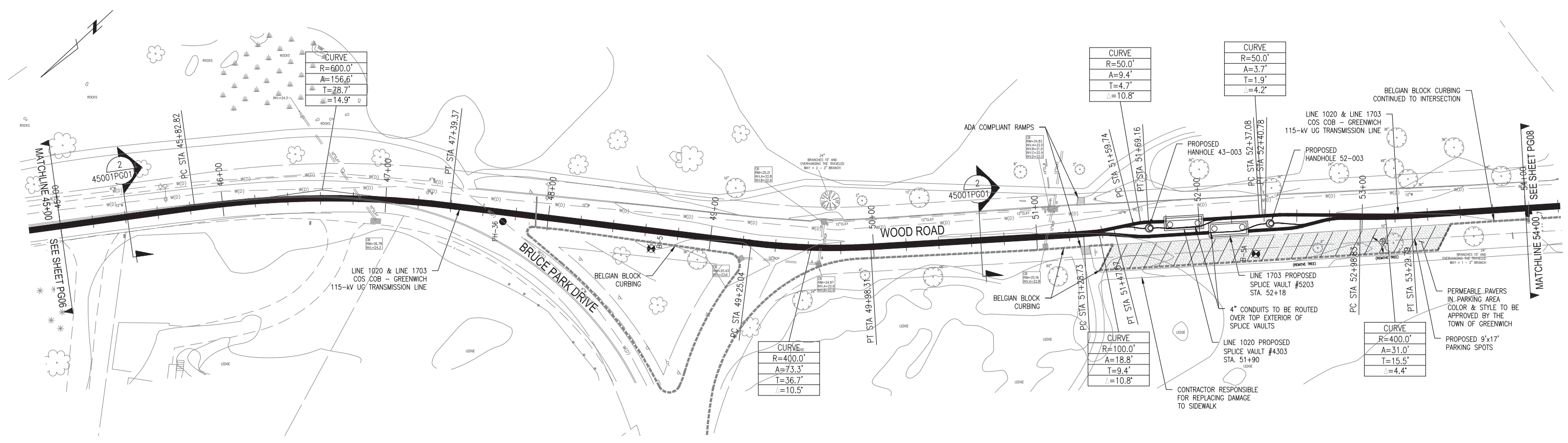
TITLE LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE PLAN and PROFILE STA 36+00 TO 45+00 GREENWICH, CONNECTICUT

BY	DATE	CHKD	DATE	APP	DATE
BWF	10-02-18	DM	10-02-18	LH	10-02-18

H-SCALE 1" = 30'
V-SCALE 1" = 5'
SIZE ID
R.E. DWG
R.E. PROJ. NUMBER NUSCO 01242-10001PG06

"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

9/27/2018 3:15 PM - joneal - R:\SIP\Projects\13682\DWG\08 Const Drawings\01242-10001PG07 Plan and Profile - 01242-10001PG07 Plan and Profile - D&M SUB Titleblocks.dwg - 01242-10001PG07 Plan and Profile



D&M PLAN SUBMITTAL 10/02/2018



LINE 1020 & 1703 COS COB - GREENWICH
 115-kv UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE STA 45+00 TO 54+00
 GREENWICH, CONNECTICUT

BY	DATE	CHKD	DATE	APP	DATE
EWF	10-02-18	DM	10-02-18	LH	10-02-18

H-SCALE	V-S.	SIZE	FIELD BOOK & PAGES
1" = 30'	ID		
1" = 5'			

R.E. PROJ. NUMBER	NUSCO
01242-10001PG07	

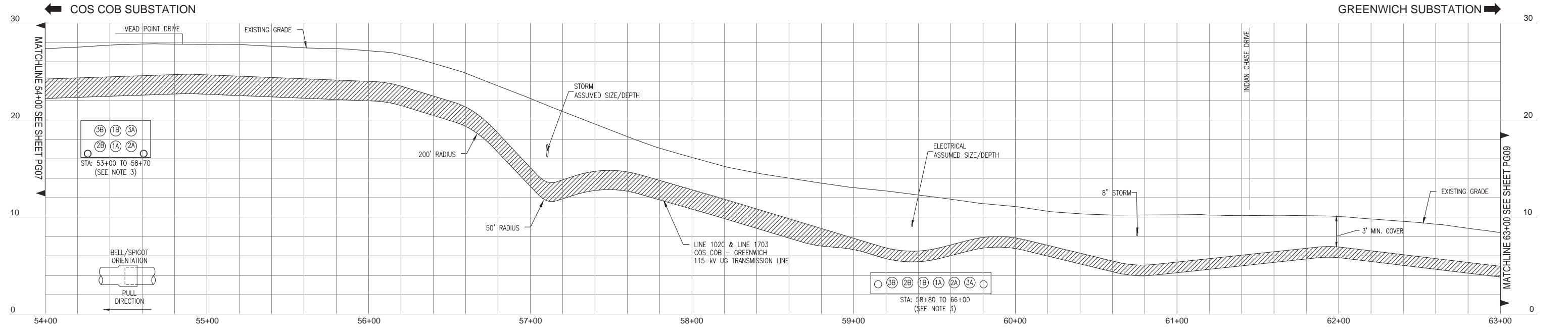
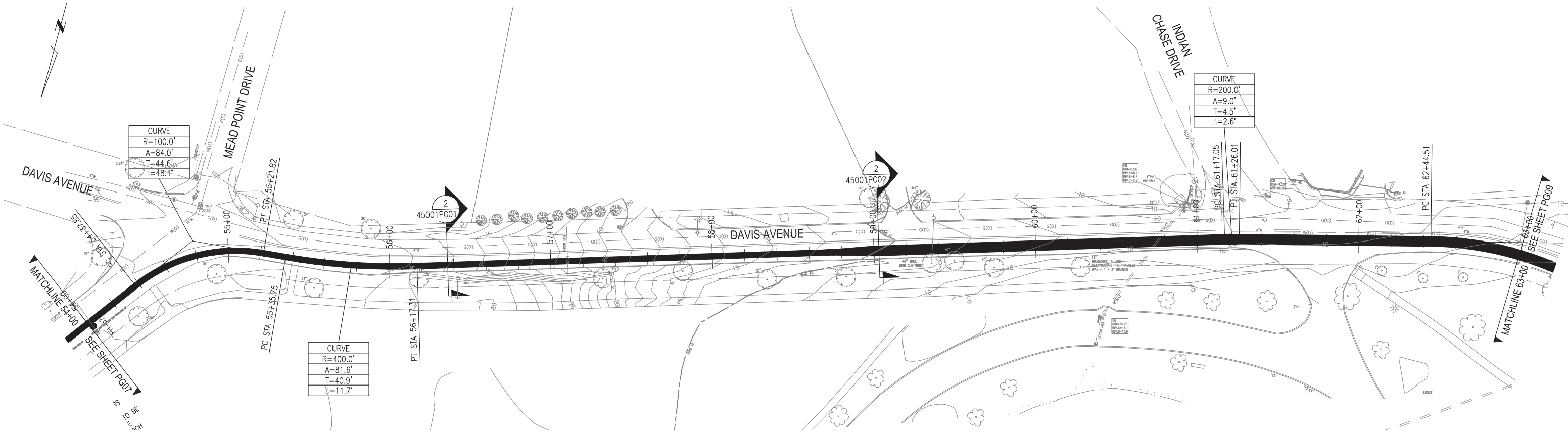
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9/27/2018 3:15 PM - joneal - R:\SIP\Projects\138082\DWG\08 Const Dwg\01242-10001PG08 Plan and Profile - 01242-10001PG08 Plan and Profile - 01242-10001PG08 Plan and Profile - 01242-10001PG08 Plan and Profile



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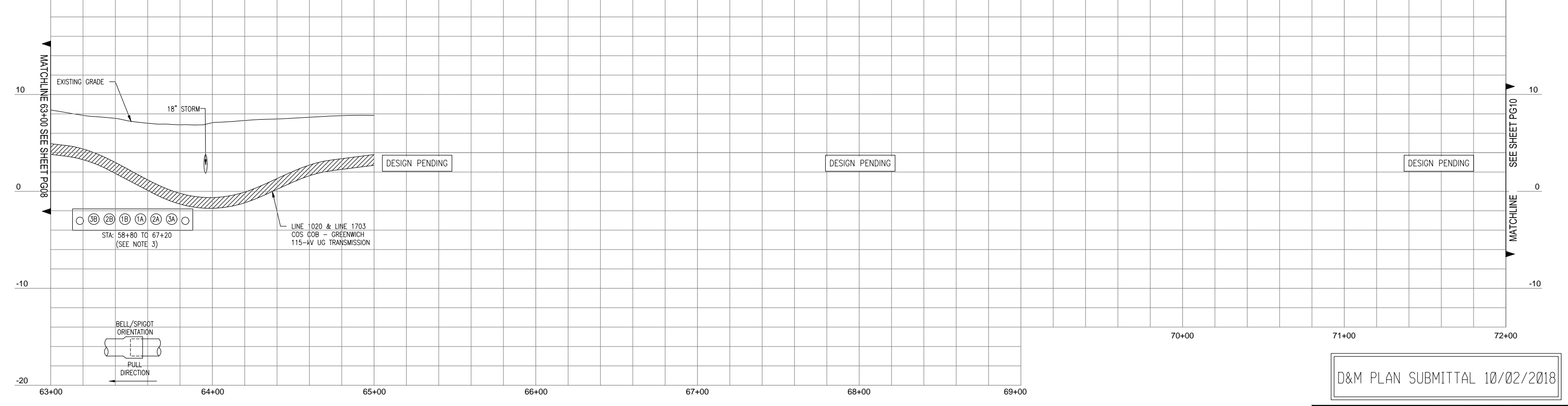
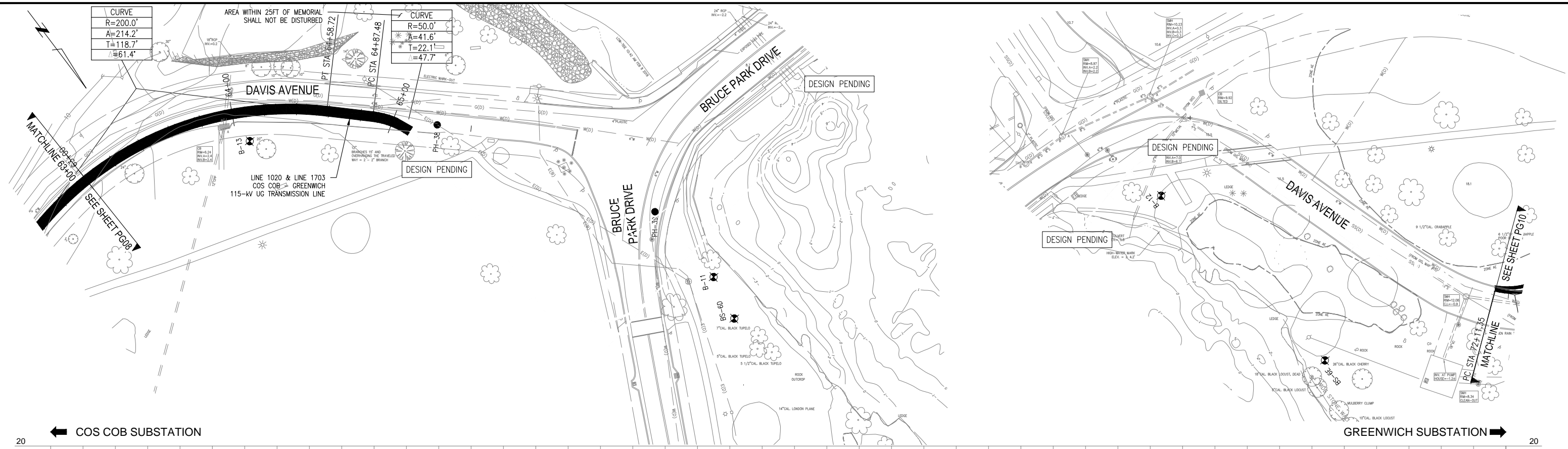
D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

TITLE LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 PLAN and PROFILE STA 54+00 TO 63+00
 GREENWICH, CONNECTICUT

BY	BWF	CHKD	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE
H-SCALE	1" = 30'	SIZE	1D	FIELD BOOK & PAGES		
V-SCALE	1" = 5'	V.S.		R.E. DWG		
R.E. PROJ. NUMBER	NUSCO			012425-10001PG08		

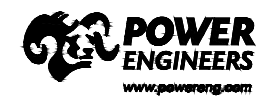
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"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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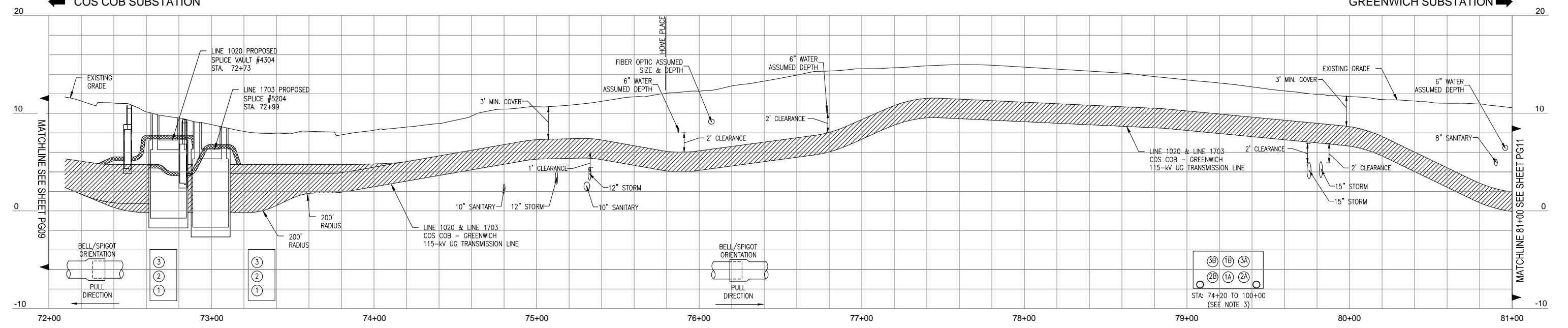
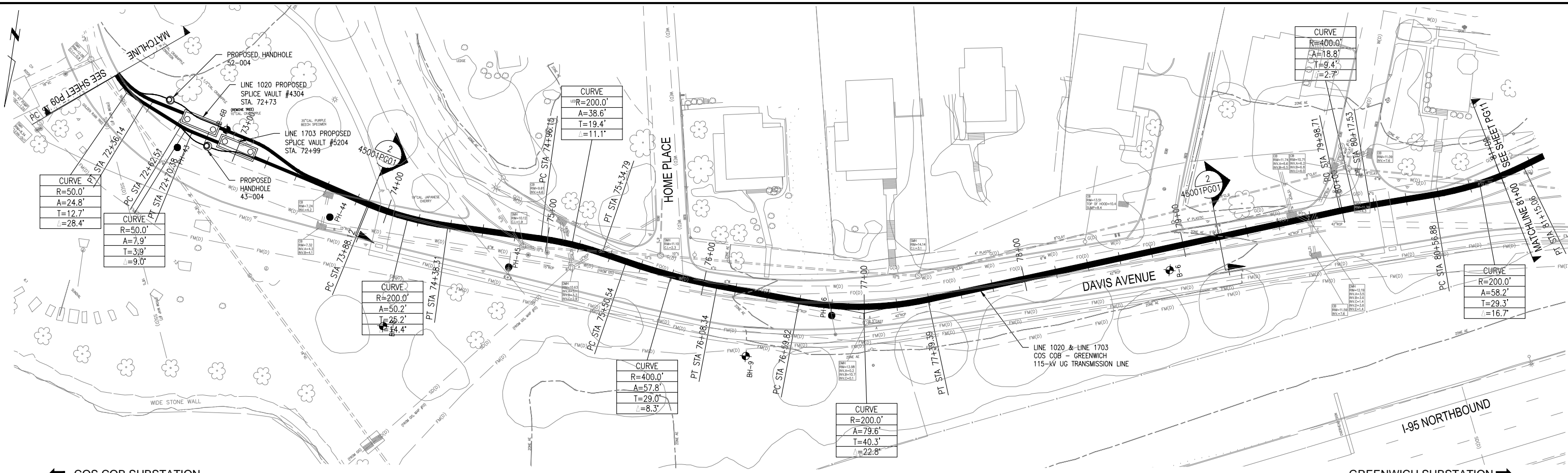
D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
 115-kv UNDERGROUND TRANSMISSION LINE
 PLAN and PROFILE STA 63+00 TO 72+00
 GREENWICH, CONNECTICUT

BY	BWF	CHKD	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE
H-SCALE	1" = 30'	SIZE	11	FIELD BOOK & PAGES		
V-SCALE	1" = 5'	V.S.		R.E. DWG		
R.E. PROJ. NUMBER				NUSCO	01242-10001PG09	

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 NU VER: 02/2012



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 - ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.
 - ANY DAMAGE TO THE EXISTING STORM DRAIN AND/OR DRAINAGE STRUCTURES WILL REQUIRE COMPLETE RECONSTRUCTION. STORM DRAIN REPAIR WILL REQUIRE THE REPLACEMENT OF THE ENTIRE DAMAGED SECTION.
 - THE TOWN OF GREENWICH HIGHWAY INSPECTOR SHALL BE NOTIFIED 36-48 HOURS BEFORE WORK BEGINS IN THIS AREA, SO THE INSPECTOR CAN BE PRESENT.

"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"


 THREE BUSINESS DAYS BEFORE YOU DIG CALL
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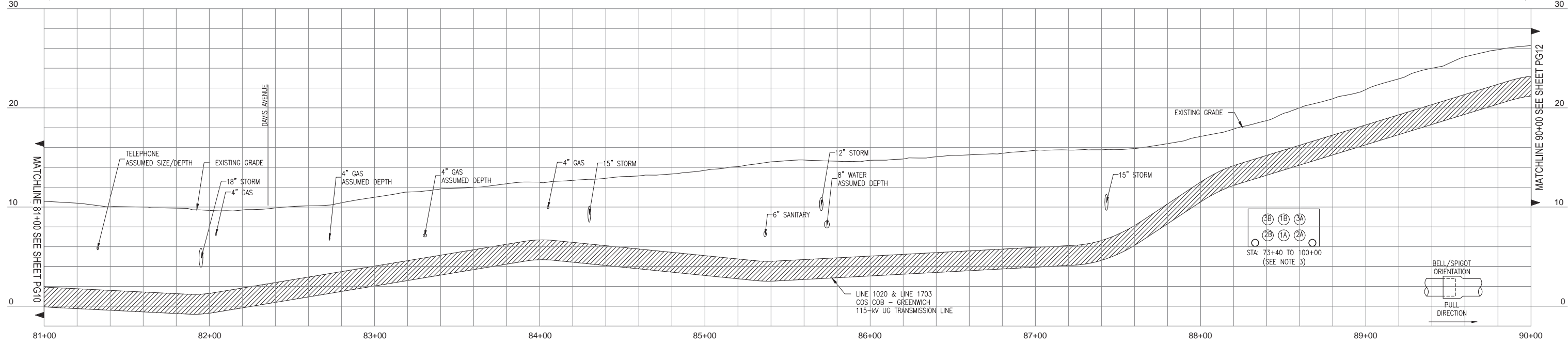
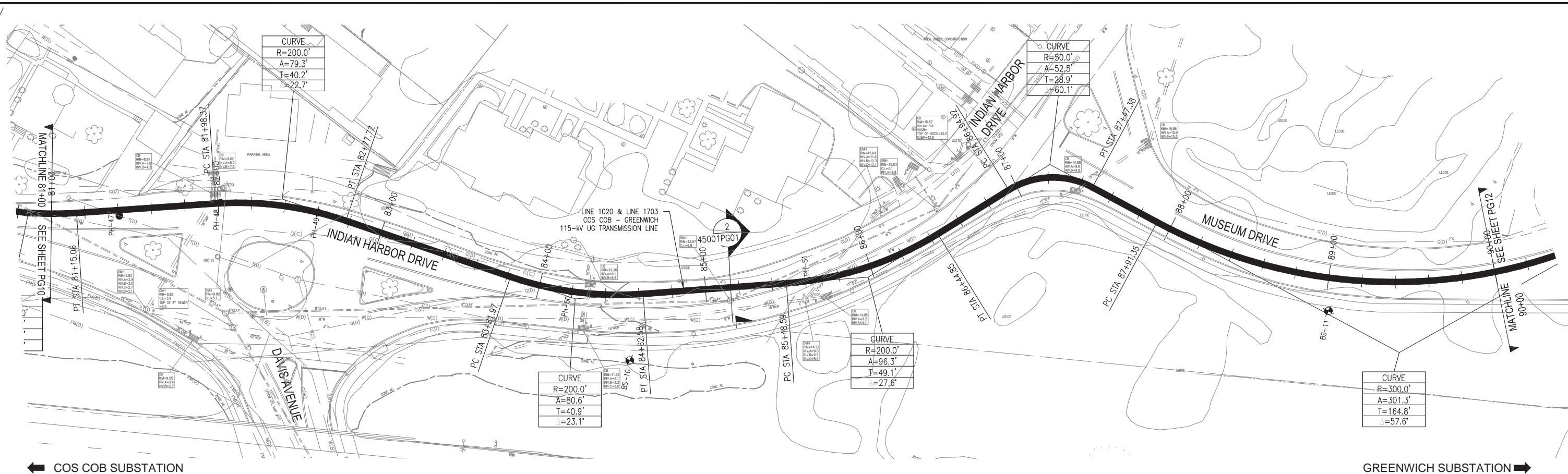


D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE STA 72+00 TO 81+00 GREENWICH, CONNECTICUT

BY	BWF	CHKD	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE
H-SCALE	1" = 30'	SIZE	D	FIELD BOOK & PAGES		
V-SCALE	1" = 5'	V.S.		R.E. DWG		
R.E. PROJ. NUMBER				NUSCO	01242-10001PG10	



NOTE

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EVSOURCE ENERGY

**LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 PLAN and PROFILE STA 81+00 TO 90+00
 GREENWICH, CONNECTICUT**

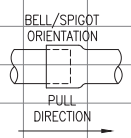
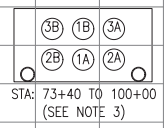
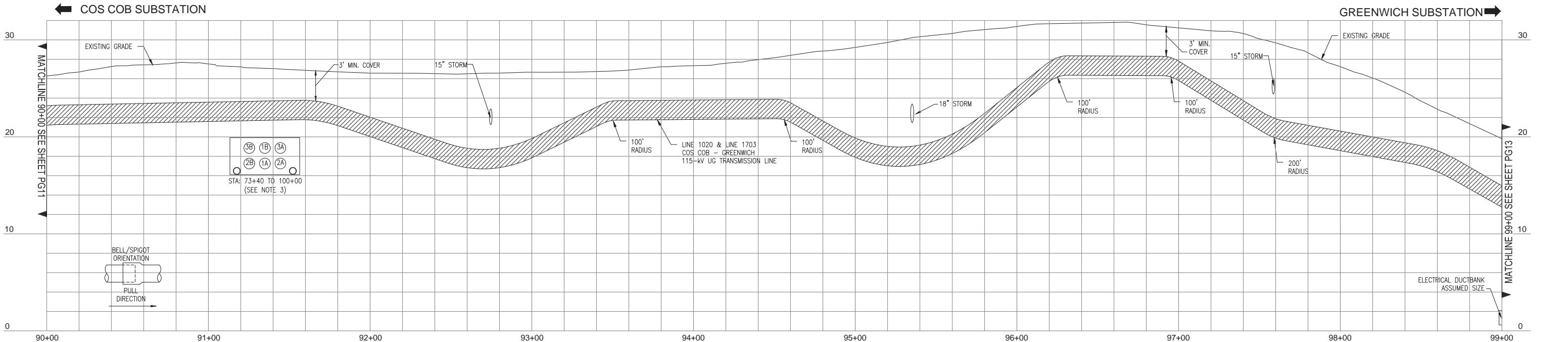
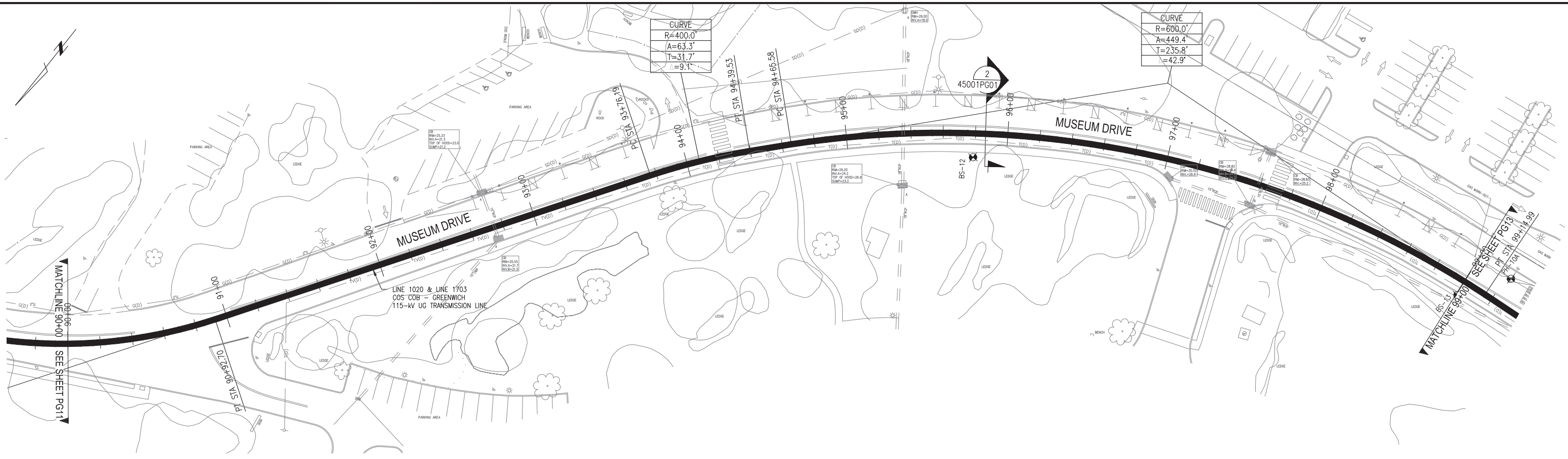
REV	BY	CHKD	DATE	APP	DATE
1	EWF	DM	10-02-18	LH	10-02-18

H-SCALE	V-SCALE	SIZE	R.E. DWG
1" = 30'	1" = 5'	D	

R.E. PROJ. NUMBER	NUSCO
	01242-10001PG11

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 NU VER: 02/2012



D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
PLAN and PROFILE STA 90+00 TO 99+00
 GREENWICH, CONNECTICUT

BY	CHKD	APP	DATE
EW	DM	LH	10-02-18
DATE	DATE	DATE	DATE
10-02-18	10-02-18	10-02-18	10-02-18
H-SCALE	SIZE	FIELD BOOK & PAGES	
1" = 30'	D		
V-SCALE	V.S.	R.E. DWG	
1" = 5'			
R.E. PROJ. NUMBER	NUSCO		01242-10001PG12

NOTE

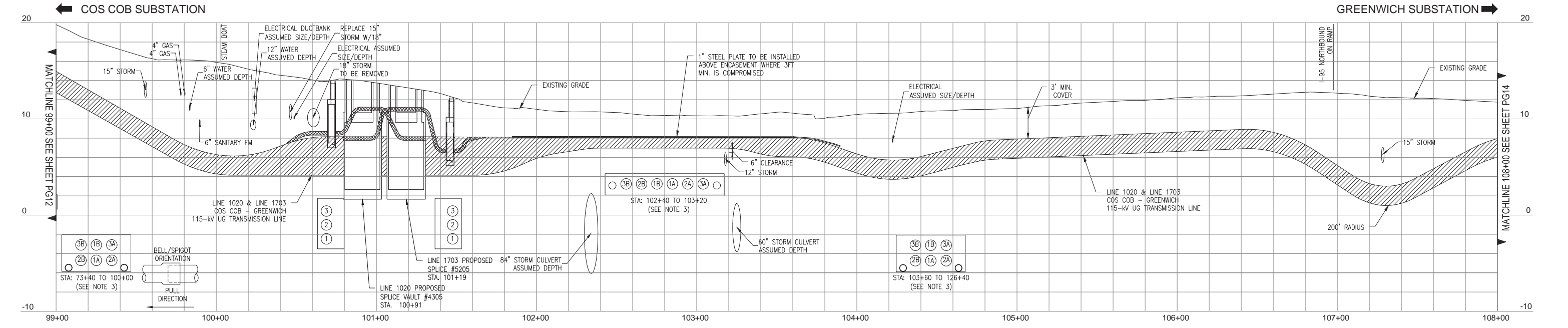
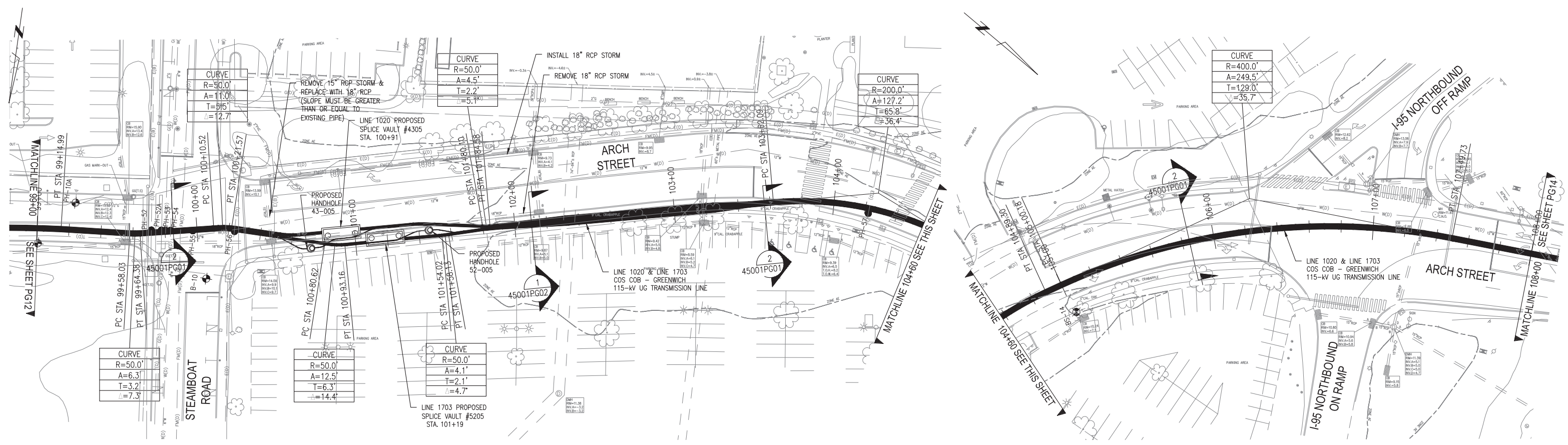
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9/28/2018 7:57 AM - joneal - R:\SHP\Projects\13892\DWG\08 Const Dwg\01242-10001PG13 Plan and Profile - 01242-10001PG13 Plan and Profile - D&M SUB Titleblocks.dwg - 01242-10001PG13 Plan and Profile



D&M PLAN SUBMITTAL 10/02/2018



LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE STA 99+00 TO 108+00
 GREENWICH, CONNECTICUT

BY	DATE	CHKD	DATE	APP	DATE
EWF	10-02-18	DM	10-02-18	LH	10-02-18

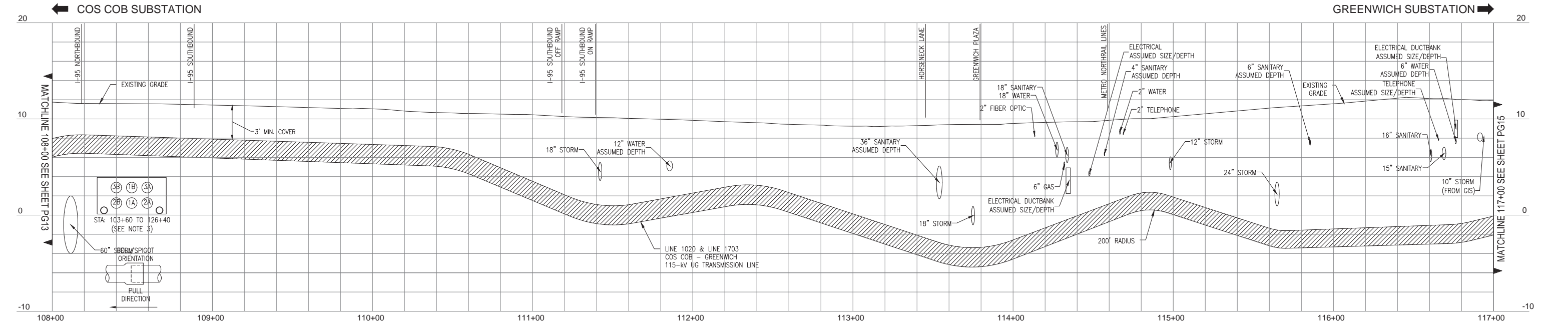
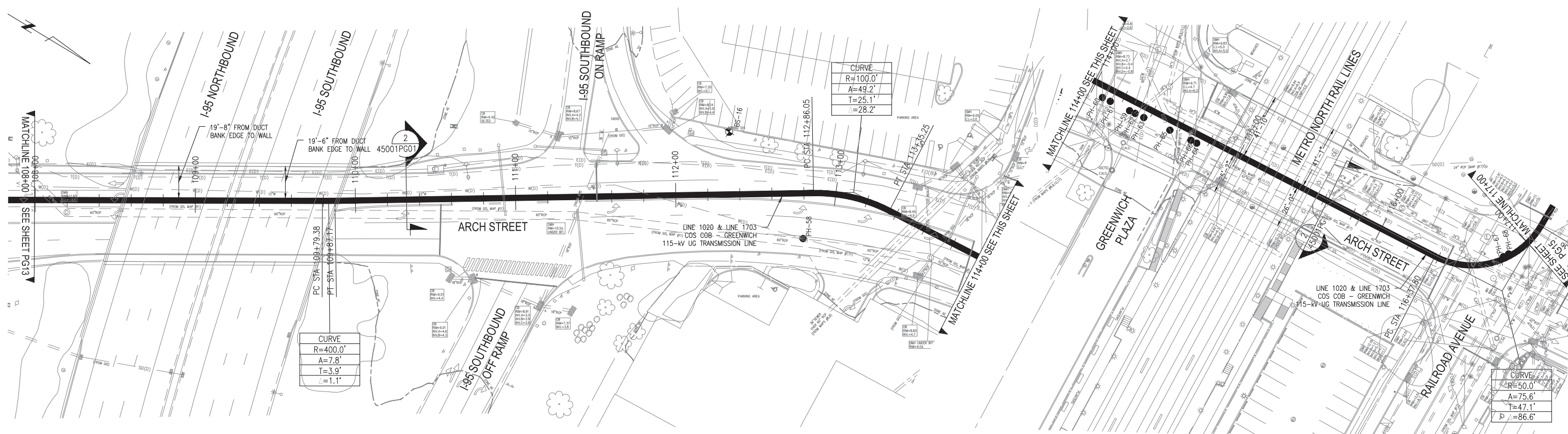
H-SCALE	V-SCALE	SIZE	R.E. DWG
1" = 30'	1" = 5'	11	01242-10001PG13

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 - CONTRACTOR TO ADD RED DYE TO THE THERMALLY APPROVED CONCRETE ENCASUREMENT MIX DESIGN.
 - ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.
 - THE TOWN OF GREENWICH HIGHWAY INSPECTOR SHALL BE NOTIFIED 36-48 HOURS BEFORE WORK BEGINS IN THIS AREA, SO THE INSPECTOR CAN BE PRESENT.

THREE BUSINESS DAYS BEFORE YOU DIG CALL
CONNECTICUT ONE CALL
 TOLL FREE
 1-800-922-4455



"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"



"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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THREE BUSINESS DAYS BEFORE YOU DIG CALL
CONNECTICUT ONE CALL
TOLL FREE
1-800-922-4455



D&M PLAN SUBMITTAL 10/02/2018

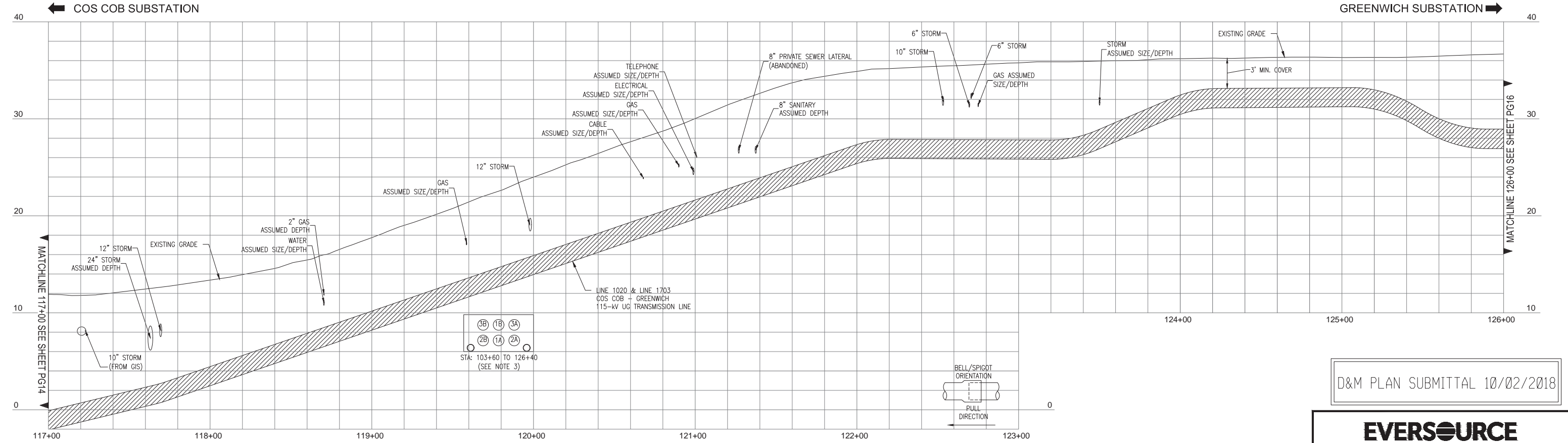
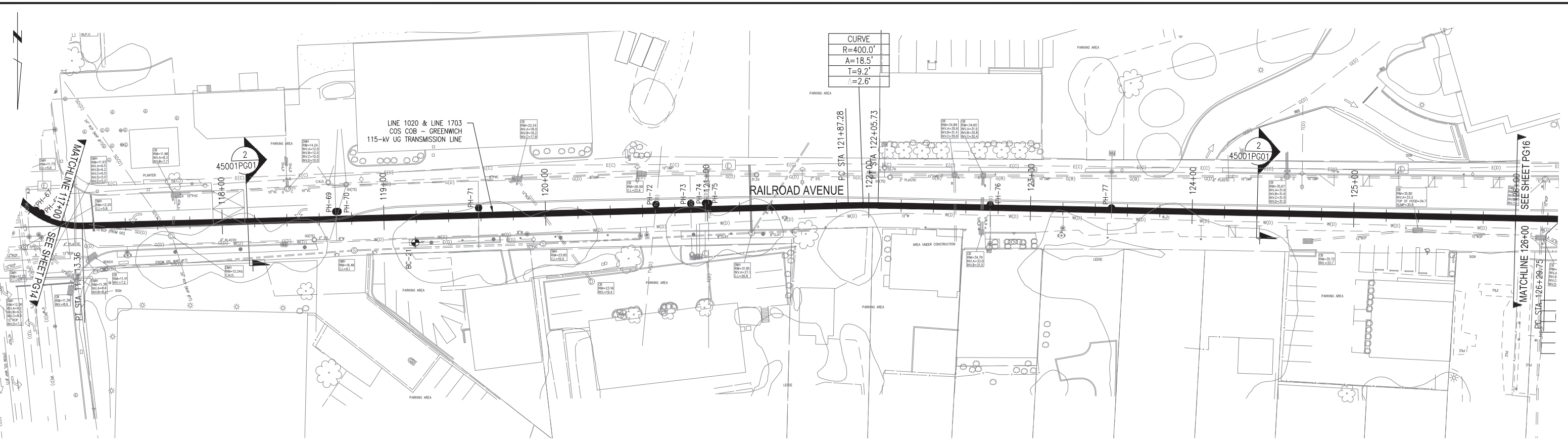
EVSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
115-kv UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE STA 108+00 TO 117+00
GREENWICH, CONNECTICUT

BY	DATE	CHKD	DATE	APP	DATE
EWF	10-02-18	DM	10-02-18	LH	10-02-18

H-SCALE: 1" = 30'
V-SCALE: 1" = 5'

R.E. PROJ. NUMBER: 01242-10001PG14



"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

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 - ALL DUCT BANK SECTION VIEWS ARE LOOKING AHEAD STATIONING. STATIONING IS APPROXIMATED AND DOES NOT ACCOUNT FOR CONFIGURATION TRANSITIONS.

THREE BUSINESS DAYS BEFORE YOU DIG CALL
CONNECTICUT ONE CALL
 TOLL FREE
 1-800-922-4455



D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

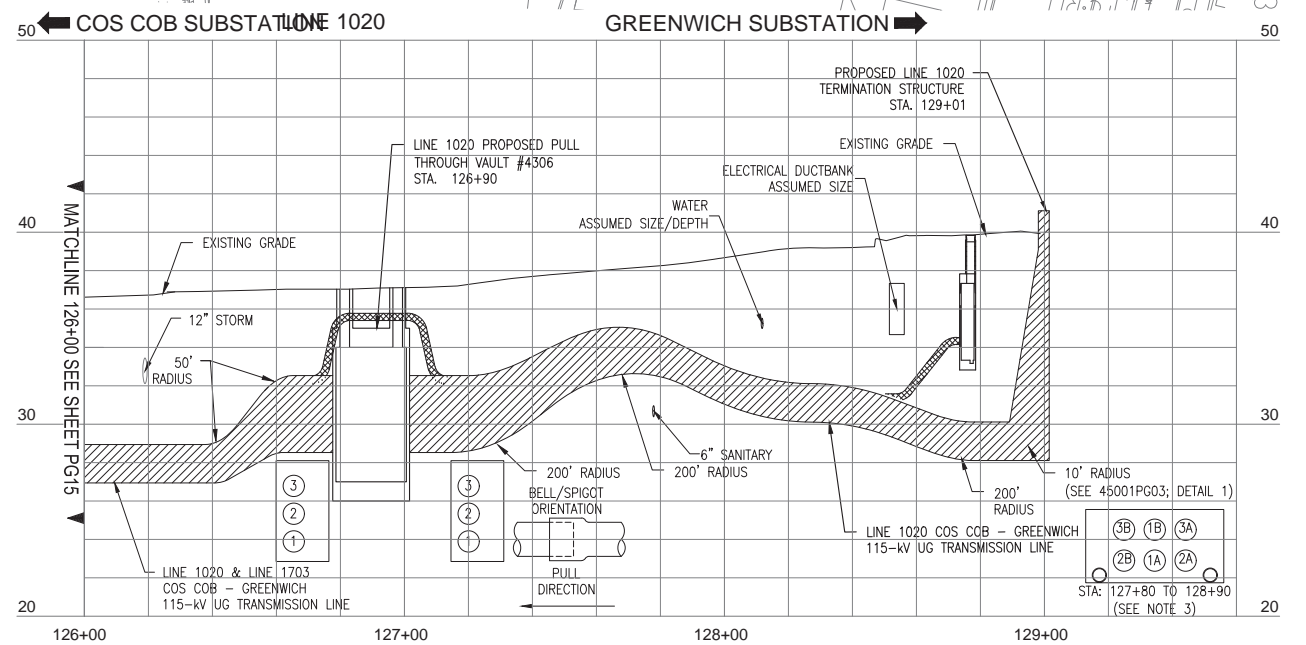
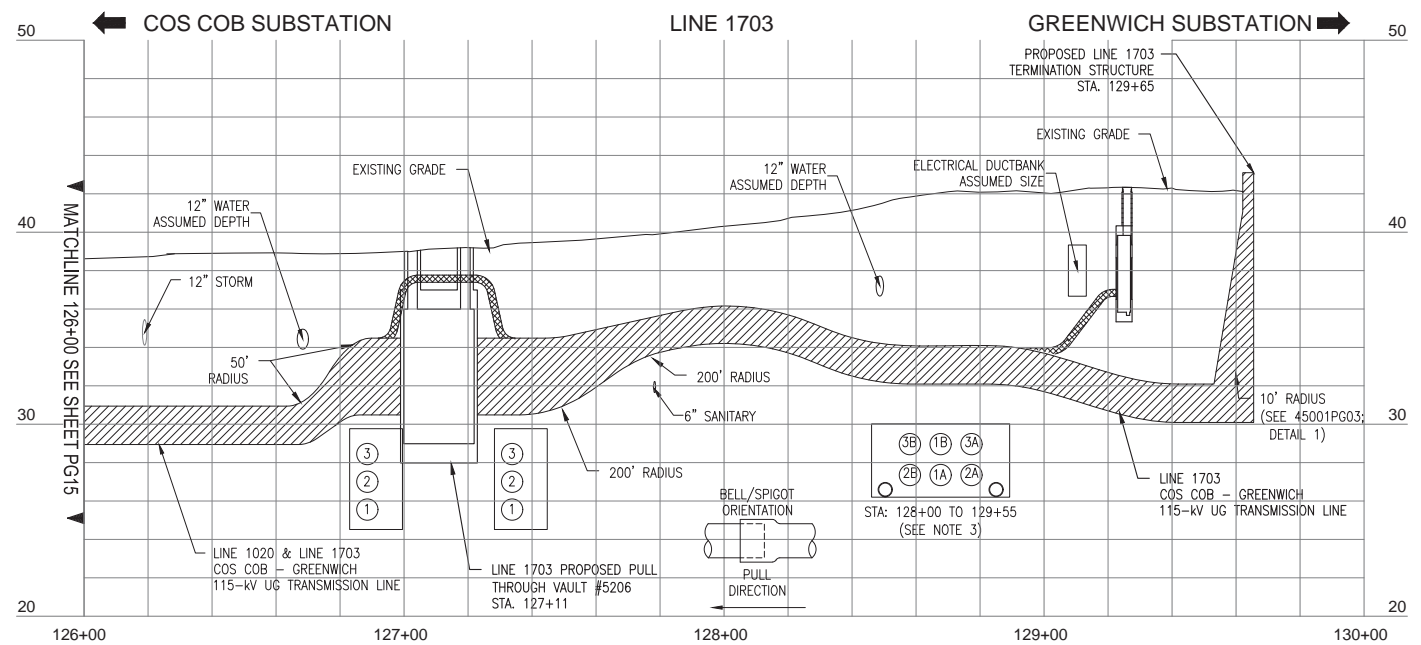
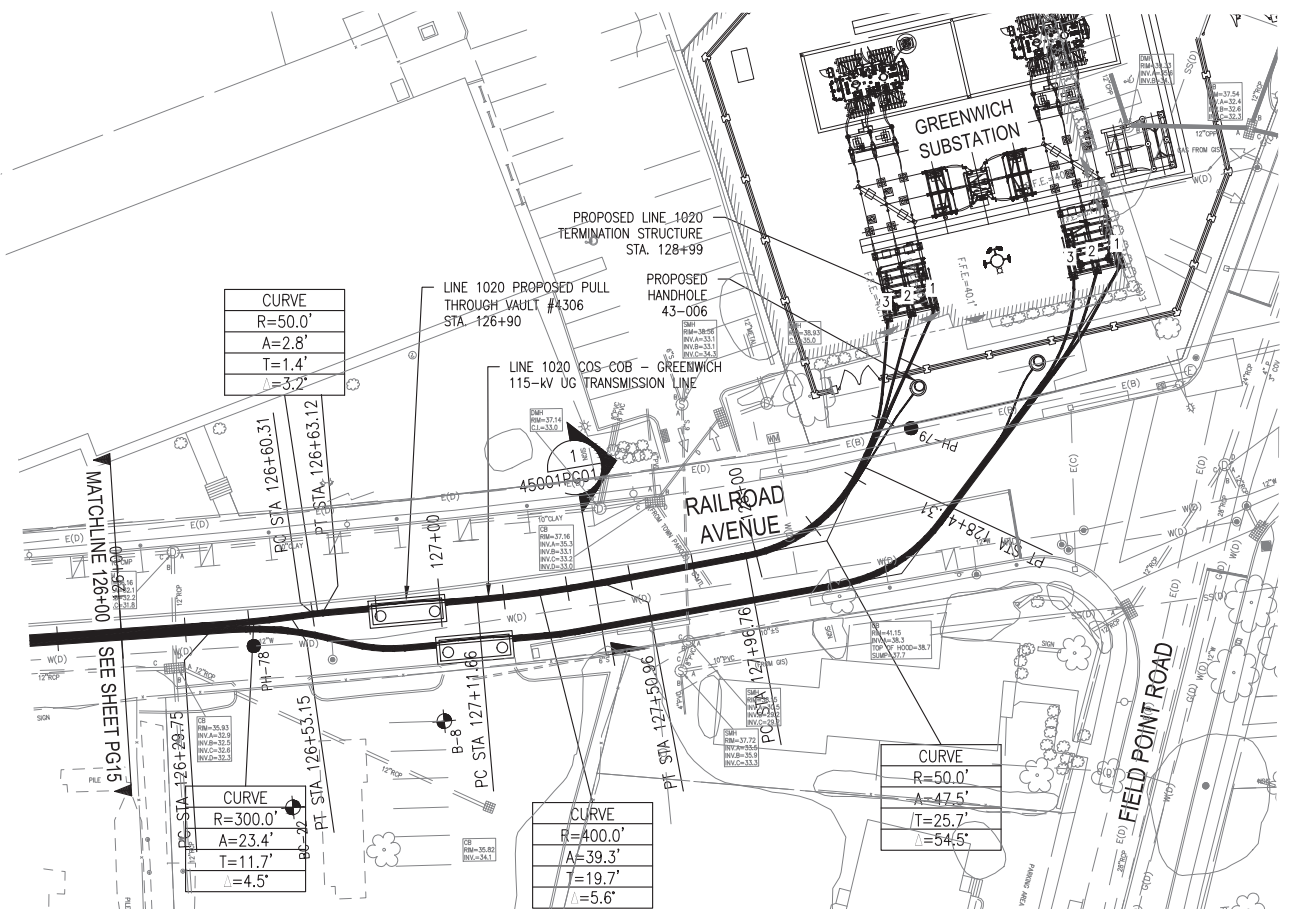
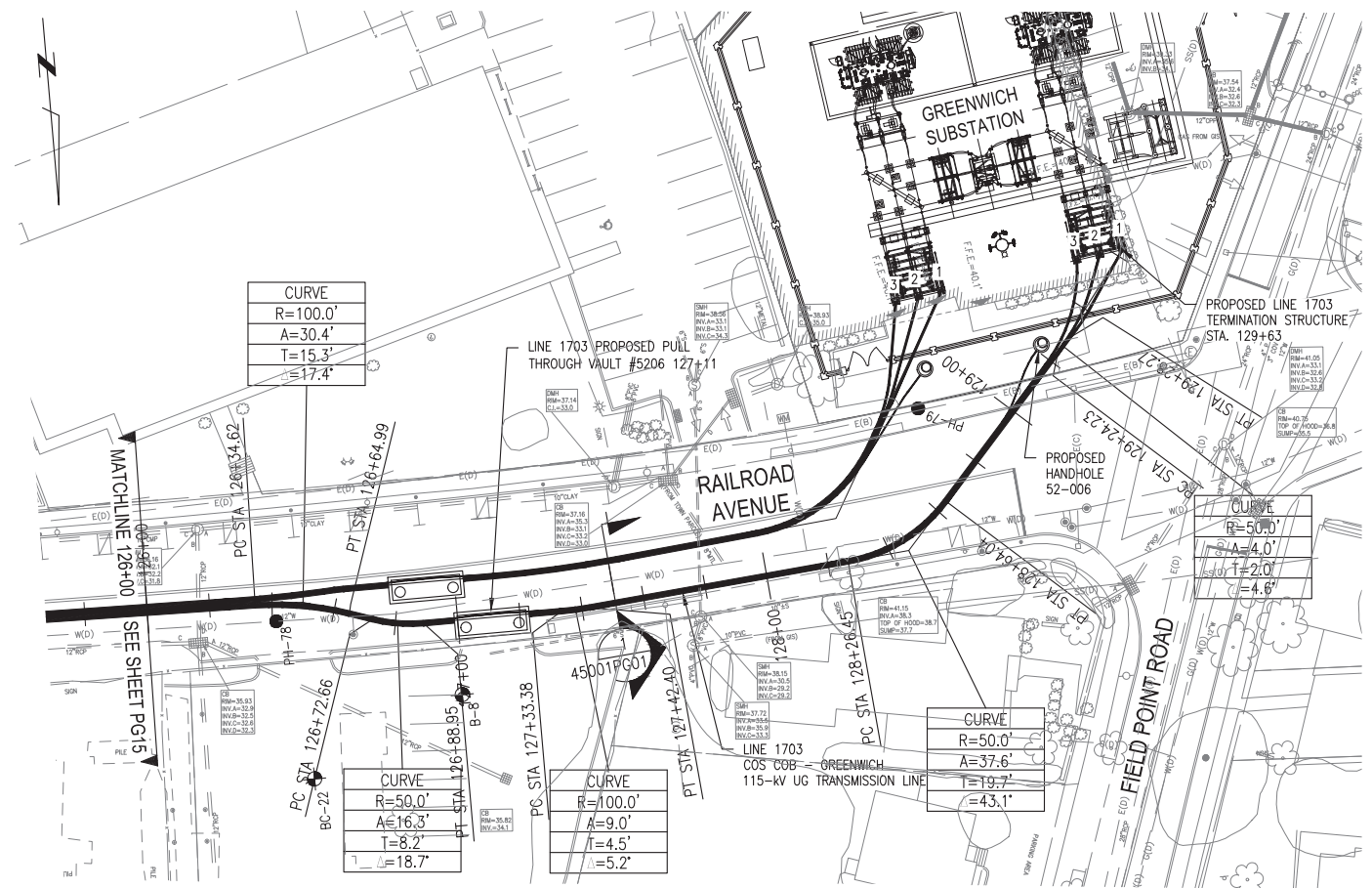
**LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE STA 117+00 TO 126+00
 GREENWICH, CONNECTICUT**

BY	DATE	CHKD	DATE	APP	DATE
BWF	10-02-18	DM	10-02-18	LH	10-02-18

H-SCALE: 1" = 30'
 V-SCALE: 1" = 5'

R.E. DWG: FIELD BOOK & PAGES
 NUSCO: R.E. DWG
 01242-10001PG15

9/28/2018 7:57 AM - joneal - R:\SHP\Projects\138082\DD\DWG\08 Const\Drawings\01242-10001PG16-Plan and Profile - D&M_SIB Titleblocks.dwg - 01242-10001PG16 Plan and Profile
 NU VER: 02/2012



- NOTE**
- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO EVERSOURCE ENERGY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG; 1.800.922.4455.
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 THREE BUSINESS DAYS BEFORE YOU DIG CALL
CONNECTICUT ONE CALL
 TOLL FREE
 1-800-922-4455



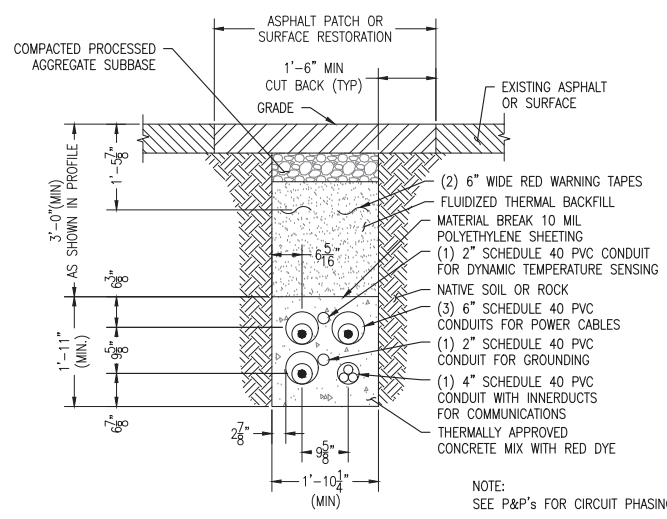
D&M PLAN SUBMITTAL 10/02/2018

EVSOURCE ENERGY

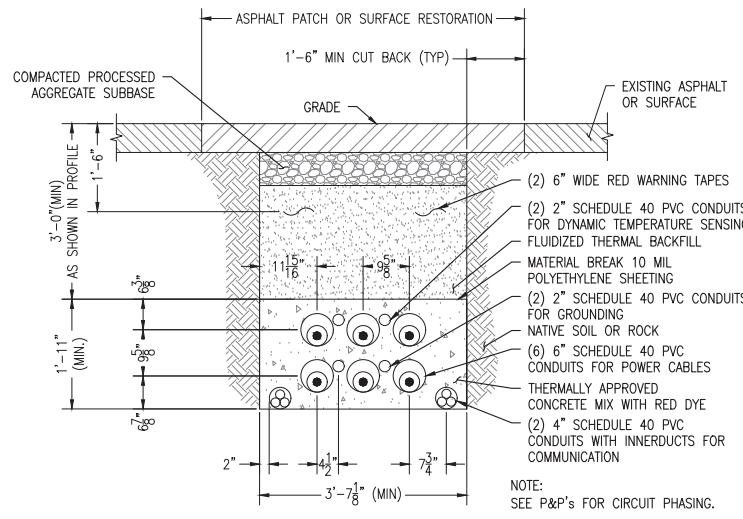
LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
PLAN and PROFILE STA 126+00 TO 130+00
 GREENWICH, CONNECTICUT

REV	BY	CHKD	DATE	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE	
V-SCALE	1" = 30'	SIZE	D	FIELD BOOK & PAGES			
H-SCALE	1" = 5'	V.S.		R.E. DWG			
R.E. PROJ. NUMBER		NUSSO					01242-10001PG16

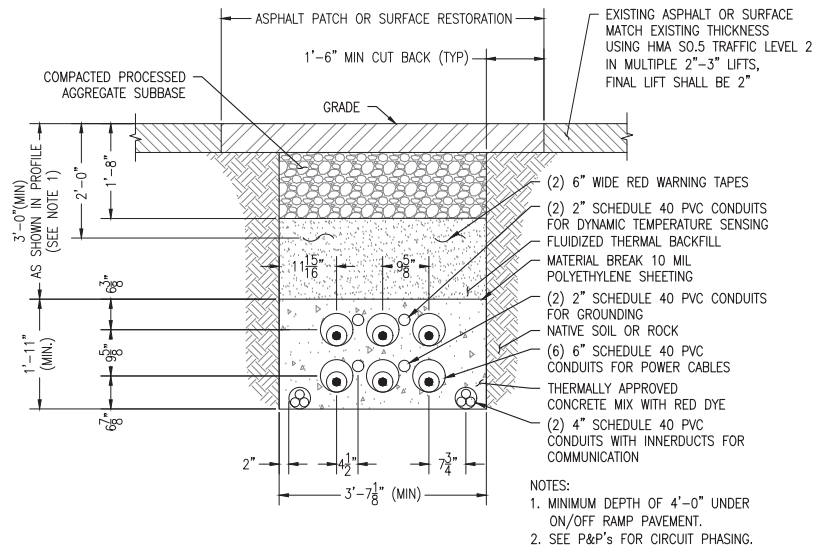
"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"



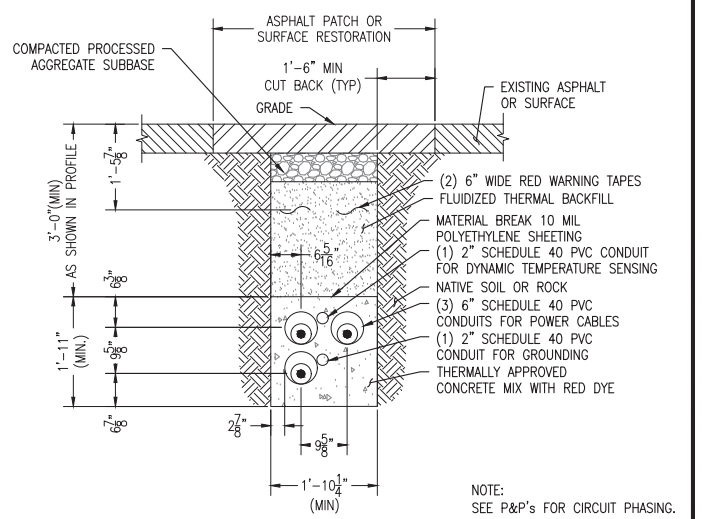
TYPICAL SINGLE CIRCUIT 2X2 DUCT BANK
DETAIL
SCALE N.T.S. 1 45001PG01



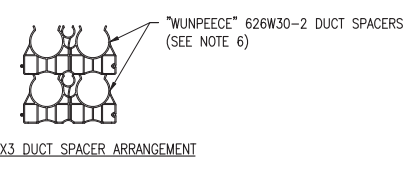
TYPICAL DOUBLE CIRCUIT 2X3 DUCT BANK
DETAIL
SCALE N.T.S. 2 45001PG01



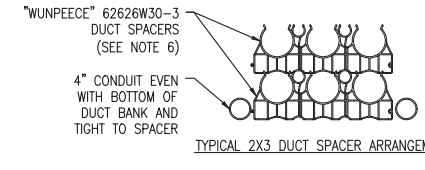
TYPICAL DOUBLE CIRCUIT 2X3 DUCT BANK WITHIN CONDOT R.O.W.
DETAIL
SCALE N.T.S. 3 45001PG01



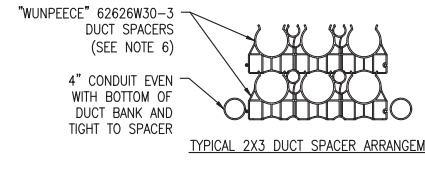
TYPICAL SINGLE CIRCUIT 2X2 DUCT BANK
DETAIL
SCALE N.T.S. 4 45001PG01



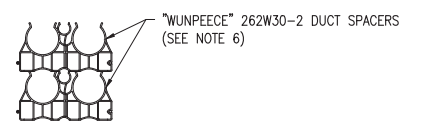
TYPICAL 2X3 DUCT SPACER ARRANGEMENT



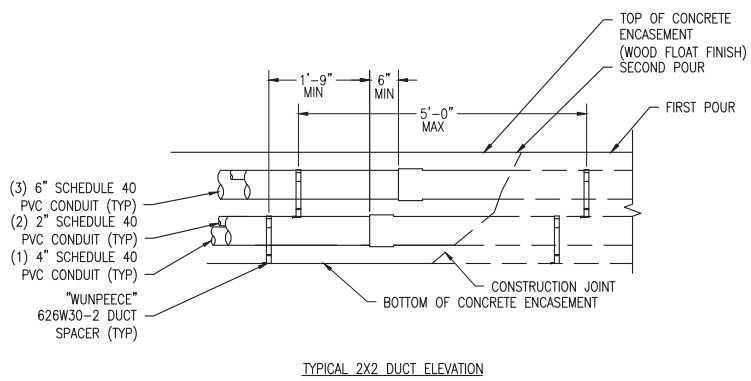
TYPICAL 2X3 DUCT SPACER ARRANGEMENT



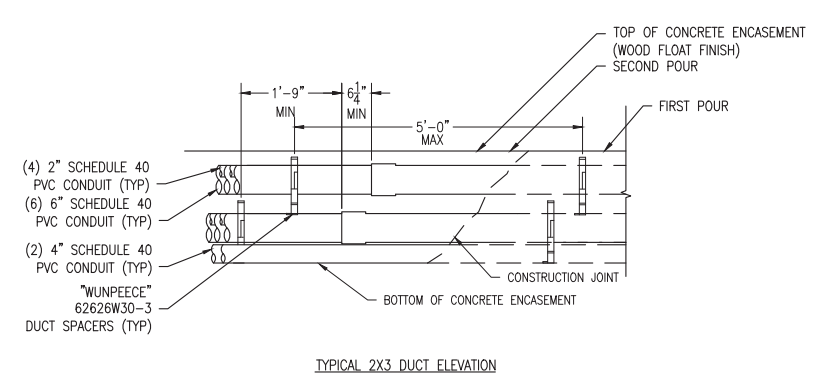
TYPICAL 2X3 DUCT SPACER ARRANGEMENT



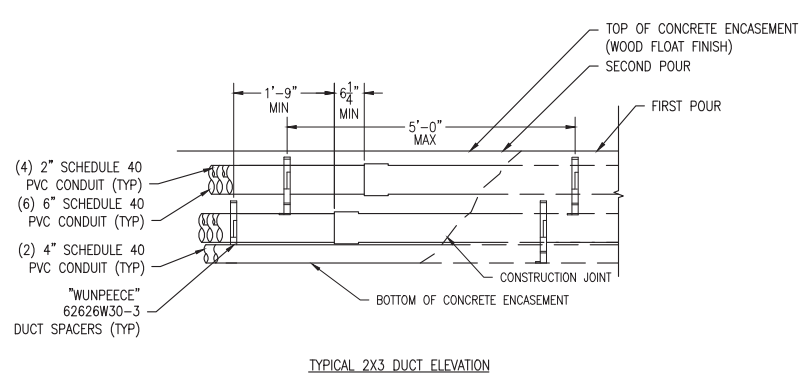
TYPICAL 2X2 DUCT SPACER ARRANGEMENT



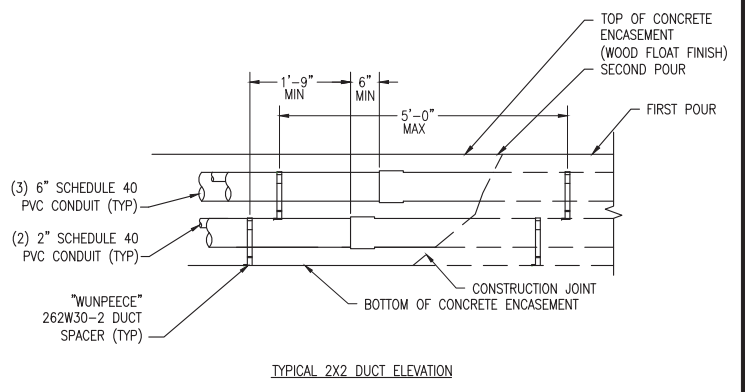
TYPICAL 2X2 DUCT ELEVATION



TYPICAL 2X3 DUCT ELEVATION



TYPICAL 2X3 DUCT ELEVATION



TYPICAL 2X2 DUCT ELEVATION

NOTES:

1. STAGGER BELL ENDS.
2. ANCHOR SPACERS WITH #14 STEEL TIE WIRE AND #4 REINFORCING BARS.
3. CEMENT ALL JOINTS IN ACCORDANCE WITH CONDUIT MANUFACTURER'S SPECIFICATIONS.
4. AVOID STANDING ON CONDUIT.
5. BELL ENDS SHALL BE ORIENTED SUCH THAT THE CABLE PULL DIRECTION WILL ENTER BELL END OF ALL CONDUITS FIRST.
6. ALL DUCT SPACERS ARE UNDERGROUND DEVICES "WUNPEECE" SPACERS, OR APPROVED EQUIVALENT.
7. THESE DETAILS ARE FOR DEMONSTRATION PURPOSES ONLY. THE CONTRACTOR SHALL COMPLETE STREET RESTORATION IN COMPLIANCE WITH THE APPROPRIATE SPECIFICATION AS REFERENCED IN THE STREET OPENING PERMIT OR CTDOT STANDARD DRAWINGS AND SPECIFICATIONS.
8. THE 1' CUT BACK OF PAVEMENT SHALL BE MADE AT TIME OF REPAIRING AND NOT WHEN TRENCH IS EXCAVATED.
9. BELL ENDS SHALL BE INSTALLED ALL IN THE SAME DIRECTION BETWEEN MANHOLES.

"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

D&M PLAN SUBMITTAL 10/02/2018

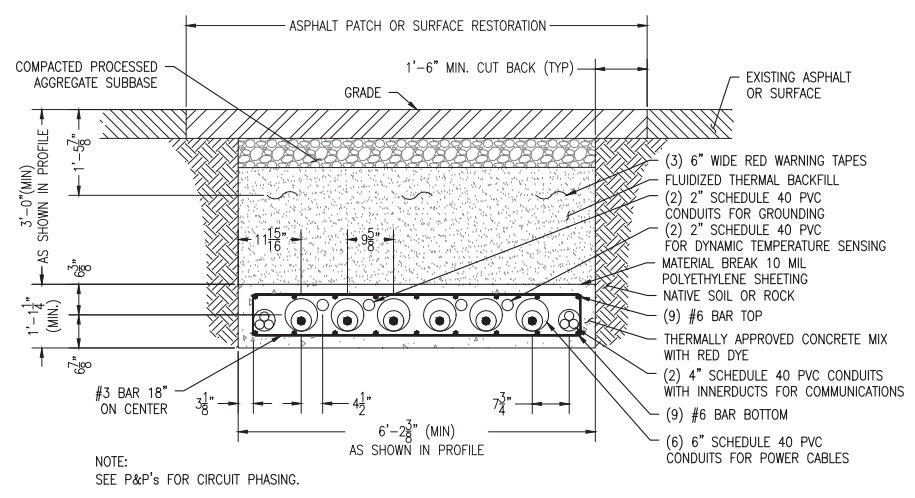


LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
DUCTBANK DETAILS
GREENWICH, CONNECTICUT

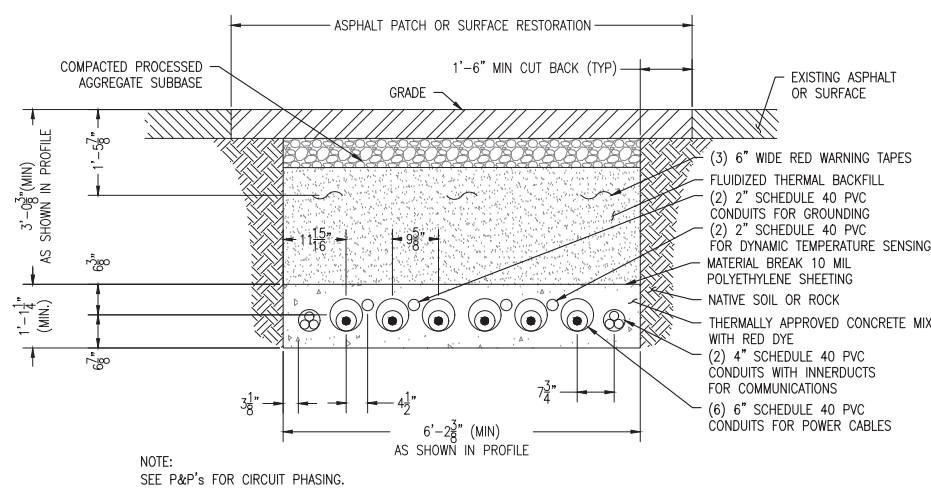
DATE	BWF	CHKD	DM	APP	LH	APP
10-02-18						
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R.E. PROJ. NUMBER				NUSCO		01242-45001PG01



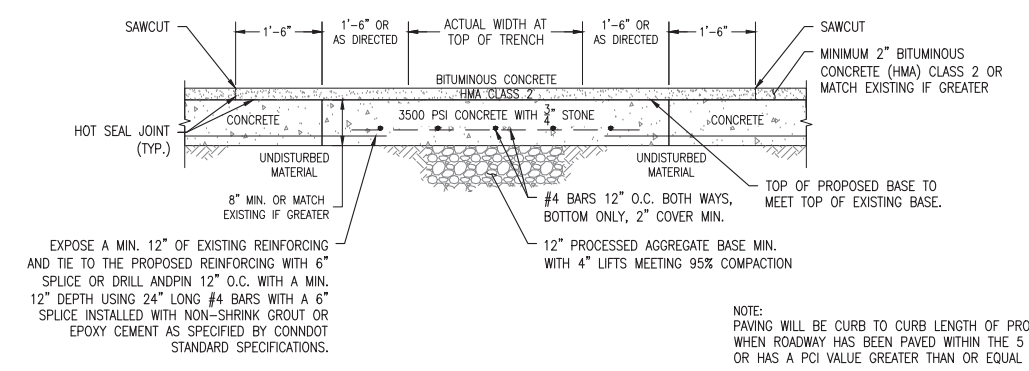
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 NU VER: 02/2012



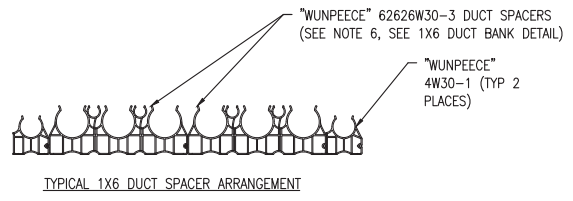
REINFORCED FLAT DOUBLE CIRCUIT 1X6 DUCT BANK
 DETAIL
 SCALE N.T.S. 1 45001PG02



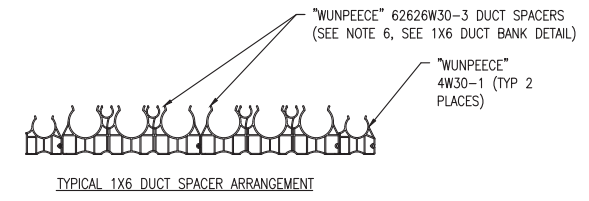
FLAT DOUBLE CIRCUIT 1X6 DUCT BANK
 DETAIL
 SCALE N.T.S. 2 45001PG02



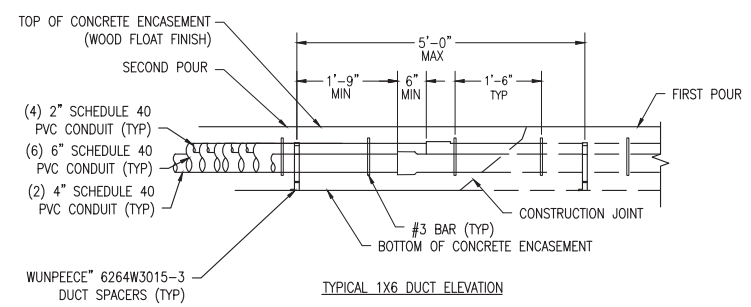
BITUMINOUS CONCRETE (HMA) ON CONCRETE PAVEMENT
 DETAIL
 SCALE N.T.S. 3 45001PG02



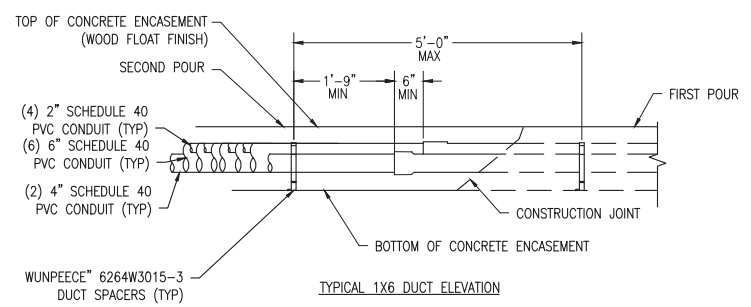
TYPICAL 1X6 DUCT SPACER ARRANGEMENT



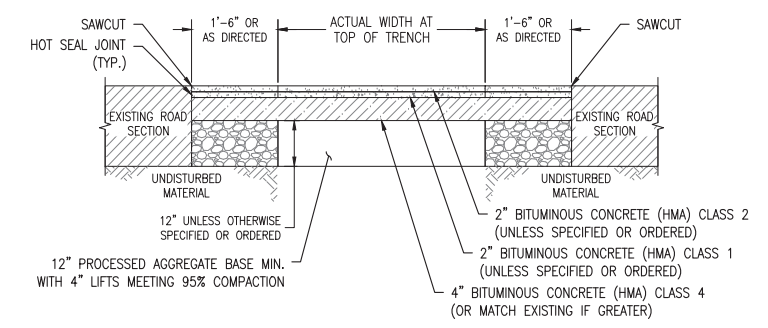
TYPICAL 1X6 DUCT SPACER ARRANGEMENT



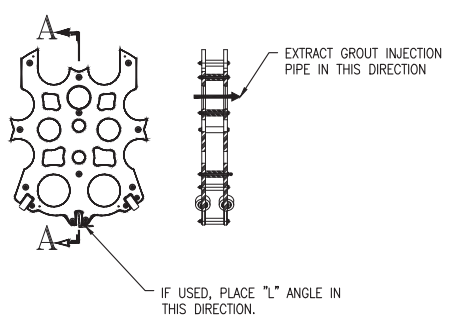
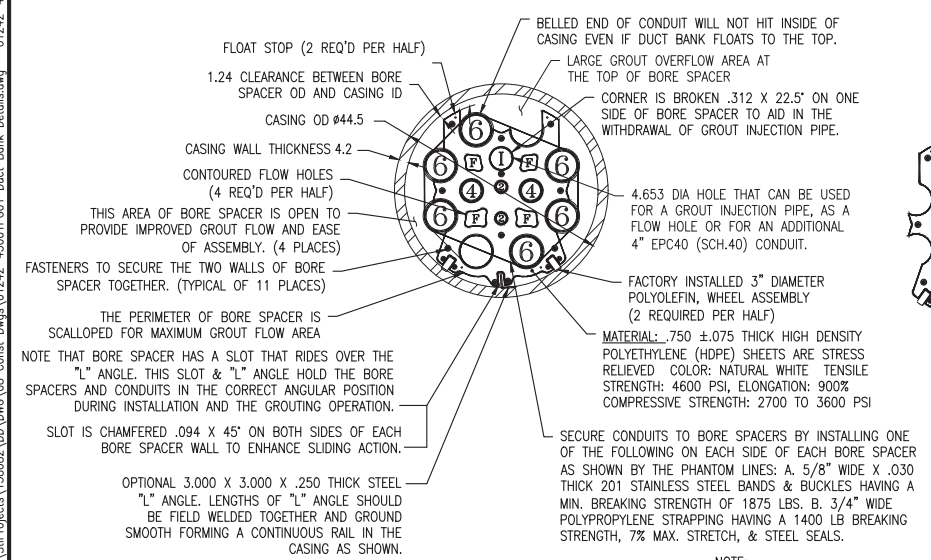
TYPICAL 1X6 DUCT ELEVATION



TYPICAL 1X6 DUCT ELEVATION



BITUMINOUS CONCRETE (HMA) PAVEMENT RECONSTRUCTION
 DETAIL
 SCALE N.T.S. 4 45001PG02



TYPICAL 42" HOBAS PIPE JACKING CROSSING
 DETAIL
 SCALE N.T.S. 5 45001PG02

D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

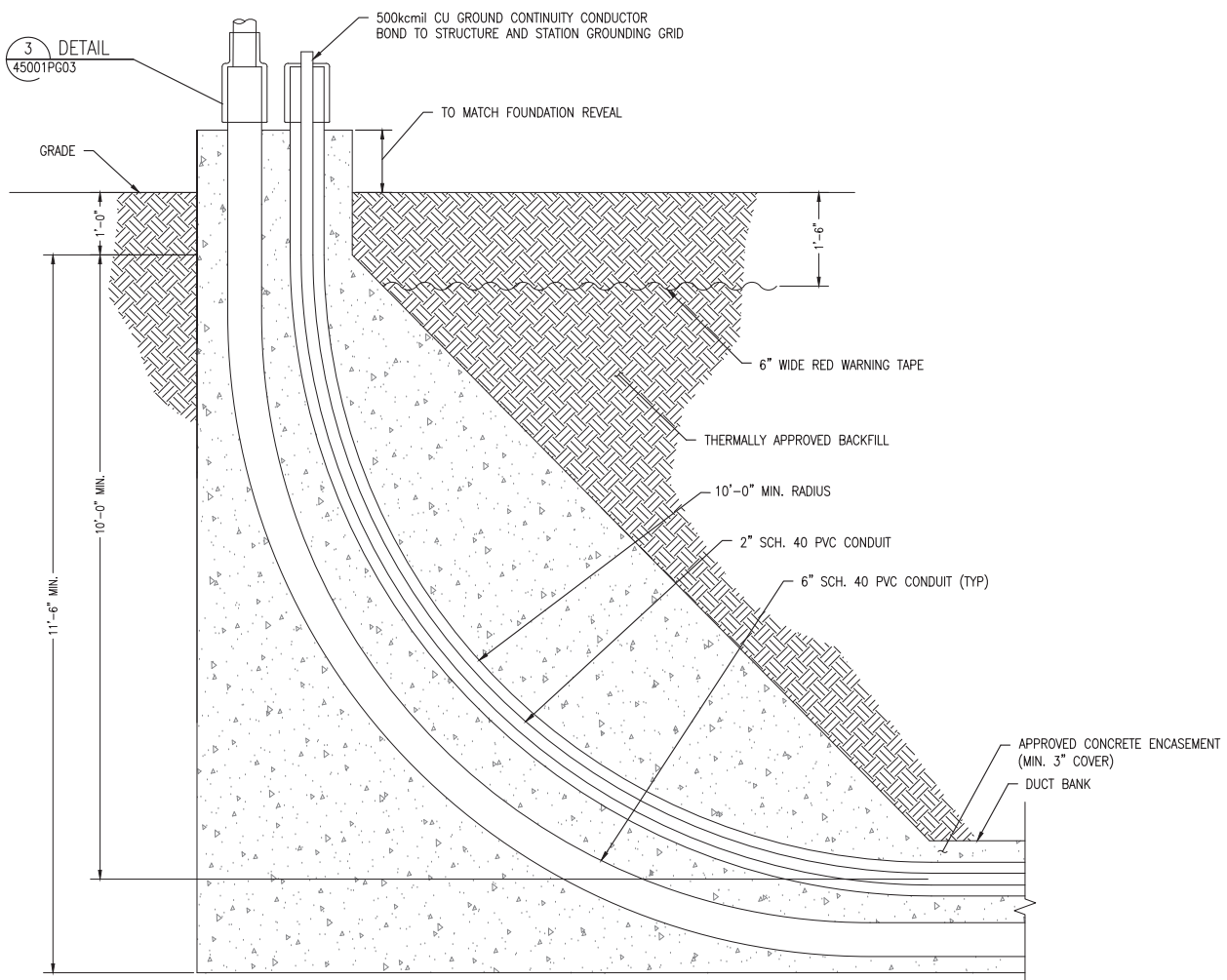
LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 DUCTBANK DETAILS
 GREENWICH, CONNECTICUT

BY	BWF	CHKD	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE
H-SCALE	N.T.S.	SIZE	ID	FIELD BOOK & PAGES		
V-SCALE	N.T.S.	V.S.		R.E. DWG		
R.E. PROJ. NUMBER				NUSCO	01242-45001PG02	

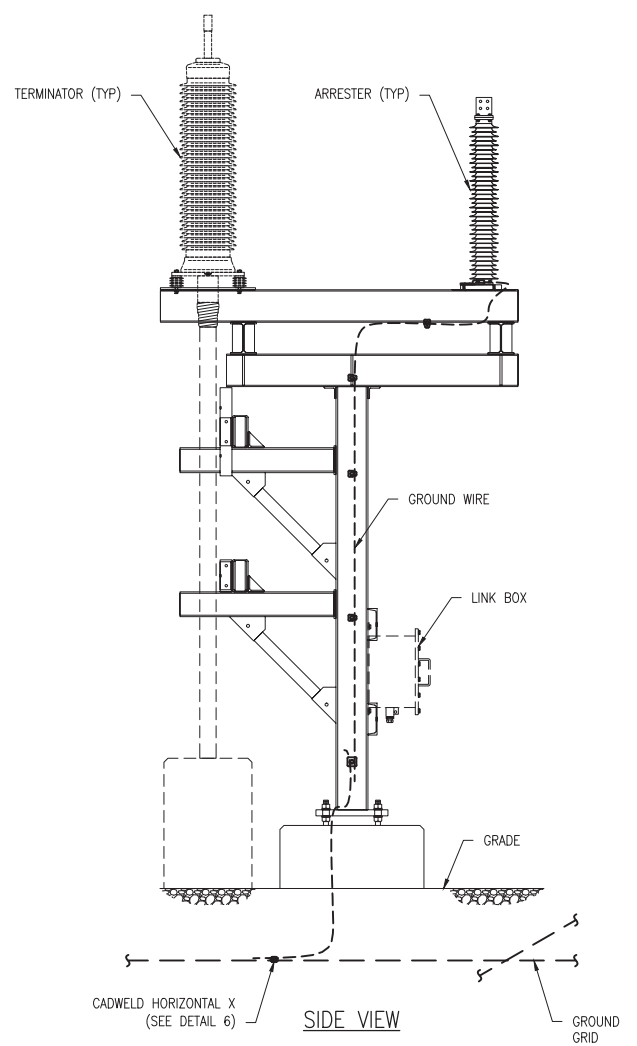


"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

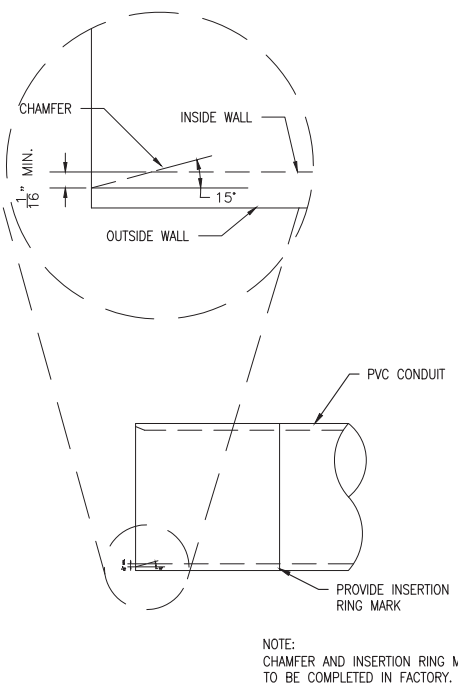
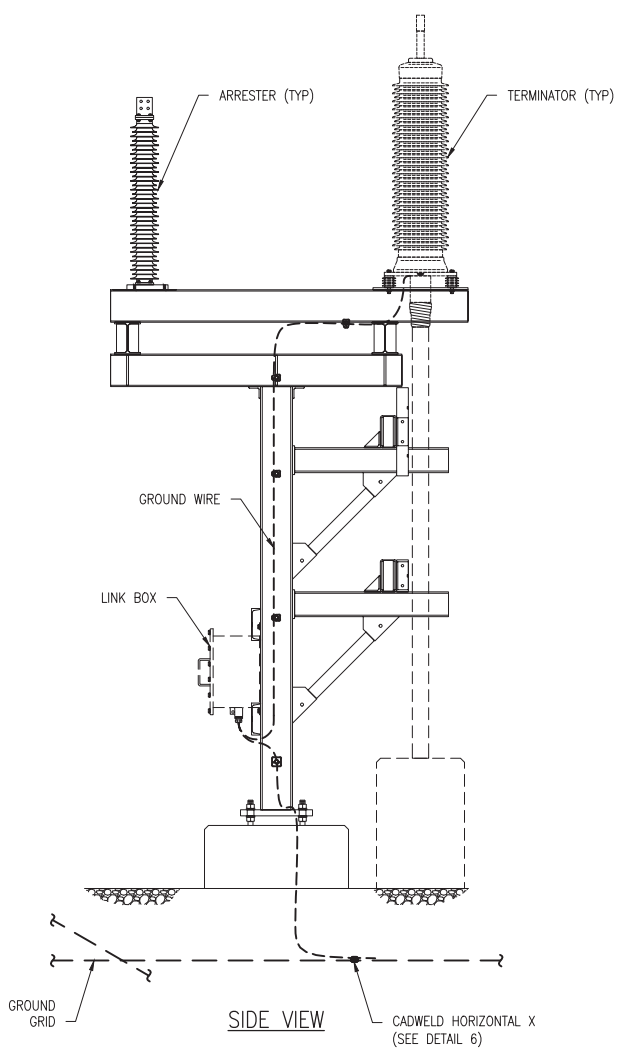
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 NU VER: 02/2012



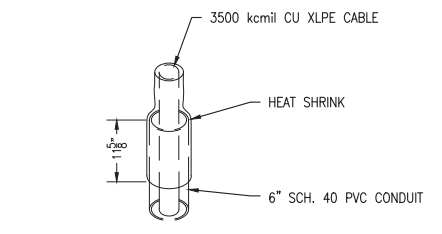
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 TYPICAL PVC DUCT SWEEP
 DETAIL
 SCALE N.T.S. 45001PG03



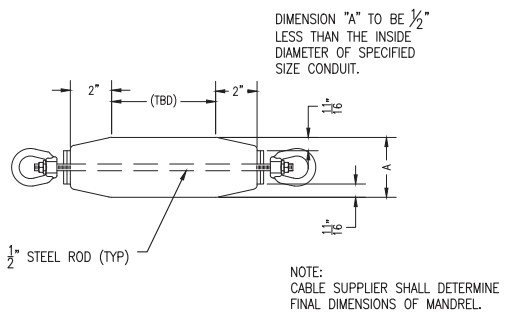
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 TERMINATION STRUCTURE GROUNDING
 DETAIL
 SCALE N.T.S. 45001PG03



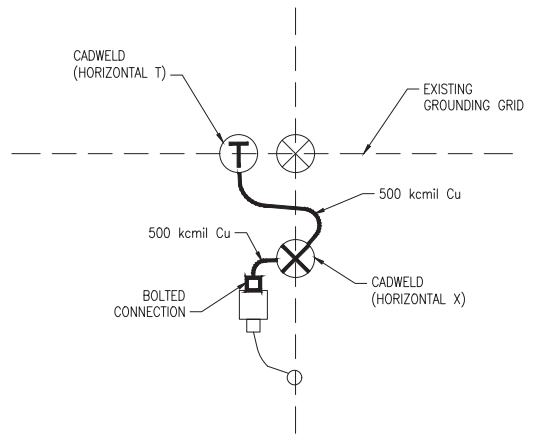
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 TYPICAL PVC DUCT CHAMFER
 DETAIL
 SCALE N.T.S. 45001PG03



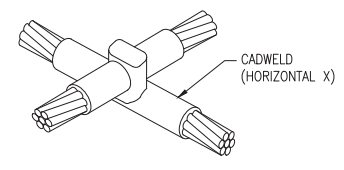
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 TYPICAL RISER STRUCTURE HEAT SHRINK
 DETAIL
 SCALE N.T.S. 45001PG03



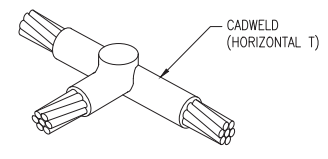
4
 TYPICAL MANDREL
 DETAIL
 SCALE N.T.S. 45001PG03



6
 GROUNDING PLAN
 DETAIL
 SCALE N.T.S. 45001PG03



7
 CADWELD (HORIZONTAL X)
 DETAIL
 SCALE N.T.S. 45001PG03



8
 CADWELD (HORIZONTAL T)
 DETAIL
 SCALE N.T.S. 45001PG03

D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY

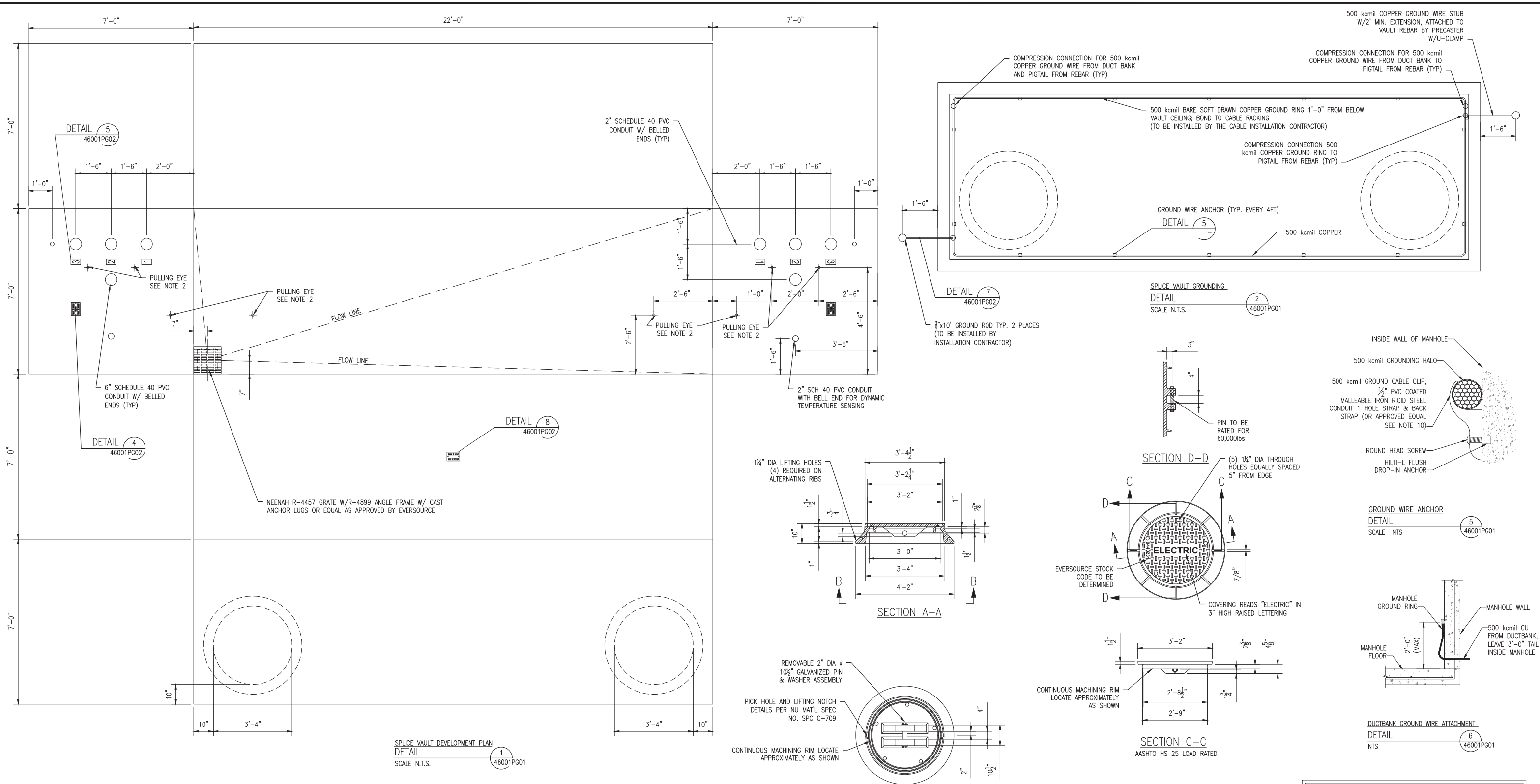
TITLE LINE 1020 & 1703 COS COB - GREENWICH
 115-kV UNDERGROUND TRANSMISSION LINE
 MISCELLANEOUS DETAILS
 GREENWICH, CONNECTICUT

BY	EW	CHKD	DM	APP	LH	APP
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18	DATE
H-SCALE	N.T.S.	SIZE	ID	FIELD BOOK & PAGES		
V-SCALE	N.T.S.	V.S.		R.E. DWG		
R.E. PROJ. NUMBER	NUSCO			01242-45001PG03		



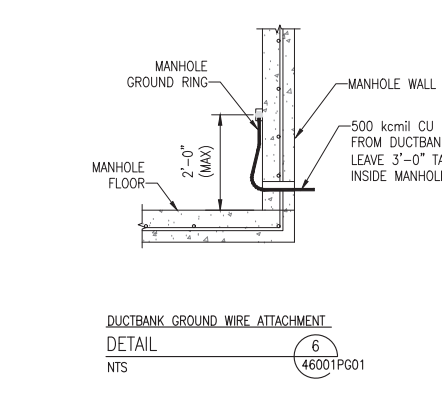
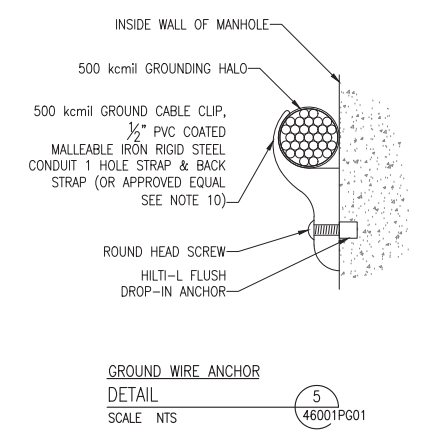
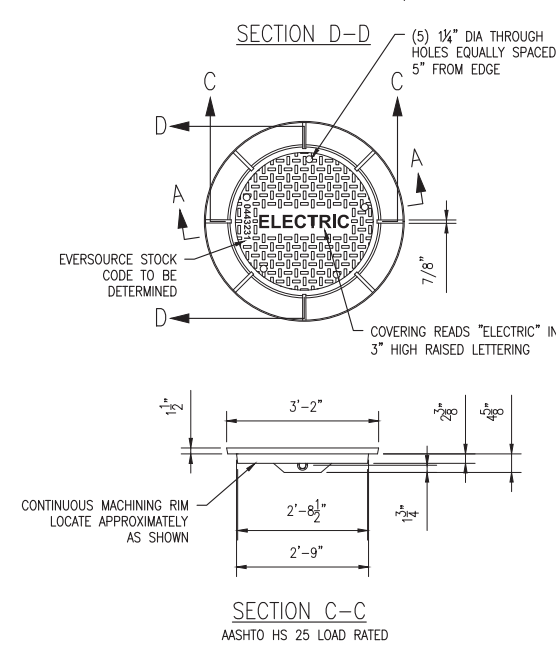
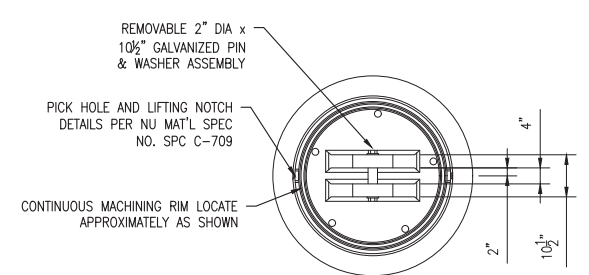
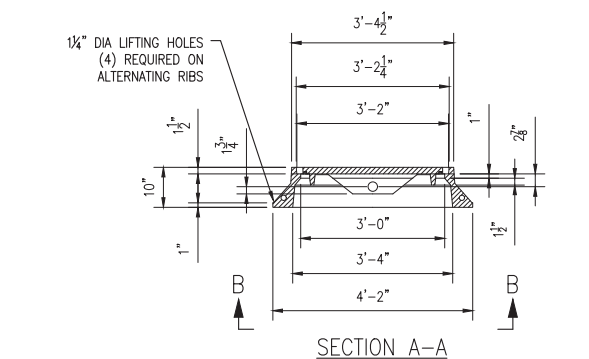
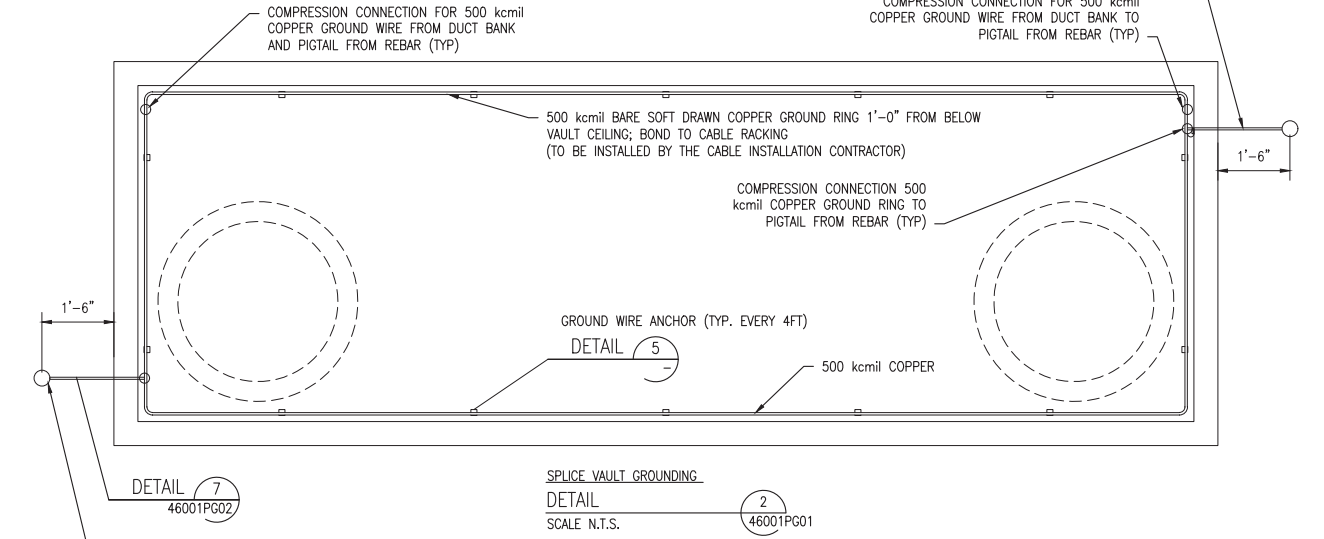
"FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO
 PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION
 SURVEY ENGINEERING/ROW DEPARTMENT"

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- NOTES:**
- ALL DIMENSIONS ARE INSIDE DIMENSIONS.
 - PULLING HARDWARE SHALL BE GOOD FOR 28,000lbs OF TENSION, MINIMUM WITHOUT OVERLOAD SAFETY FACTORS.
 - SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.
 - CONDUITS MUST ALWAYS BE INSTALLED IN THE SAME DIRECTION (BELL END FLUSH WITH INTERIOR WALL OF VAULT).
 - CABLE & ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL SPlice VAULT DEPTHS. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY & ENTRY/EXIT REQUIREMENTS.
 - ALL CHIMNEY RINGS SHALL BE MORTARED OR OTHERWISE "KEYED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO SPlice VAULT ROOF.
 - MANHOLE RING SHALL BE SECURELY FASTENED TO THE SPlice VAULT ROOF OR CHIMNEY USING INSERTS AND BOLTS OR OTHER MEANS WITH PRIOR APPROVAL.
 - ALL SECTIONS OF THE MANHOLE'S REINFORCING STEEL SHALL BE BONDED TO 500 kcmil SOFT DRAWN BARE COPPER BONDING JUMPERS.
 - MULTISECTION SPlice VAULTS SHALL INCORPORATE EITHER SHIPLAP OR TONGUE AND GROOVE JOINTS UTILIZING APPROPRIATE SILICONE, POLYMERIC OR ELASTOMERIC SEALANTS.
 - ALL CABLE RACKING COMPONENTS AND HARDWARE ARE TO BE GROUNDED AND MADE FROM 304 STAINLESS STEEL.
 - ALL EXTERNAL SURFACES OF VAULT SHALL BE SEALED USING SONNEDORN HYDROCID 700 OR OWNER APPROVED EQUIVALENT.
 - NO STEEL REINFORCING BAR MAY ENCAPSULATE ANY INDIVIDUAL CONDUIT.
 - INSTALL CIRCUIT IDENTIFICATION LABELS ON VAULT WALL AND INSTALL DANGER WARNING SIGN IN CHIMNEY.
 - CONTRACTOR SHALL PROVIDE RACKING FOR 50' OF DYNAMIC TEMPERATURE SENSING CABLE TO BE COILED ON THE WALL OPPOSITE THE CABLE SPLICES.
 - MANHOLE COVERS SHALL BE WATERTIGHT.
 - ALL GROUND CONNECTIONS SHALL BE COMPRESSION CONNECTIONS PER SUB 14 AND GROUNDING STANDARD DRAWING 30000-33023 PG15.

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EVSOURCE ENERGY

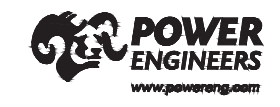
LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
SPlice VAULT DETAILS
GREENWICH, CONNECTICUT

DATE	BY	CHKD	DM	APP	LH	APP
10-02-18	EWF					

H-SCALE: N.T.S. V-S: N.T.S. R.E. DWG: NUSCO

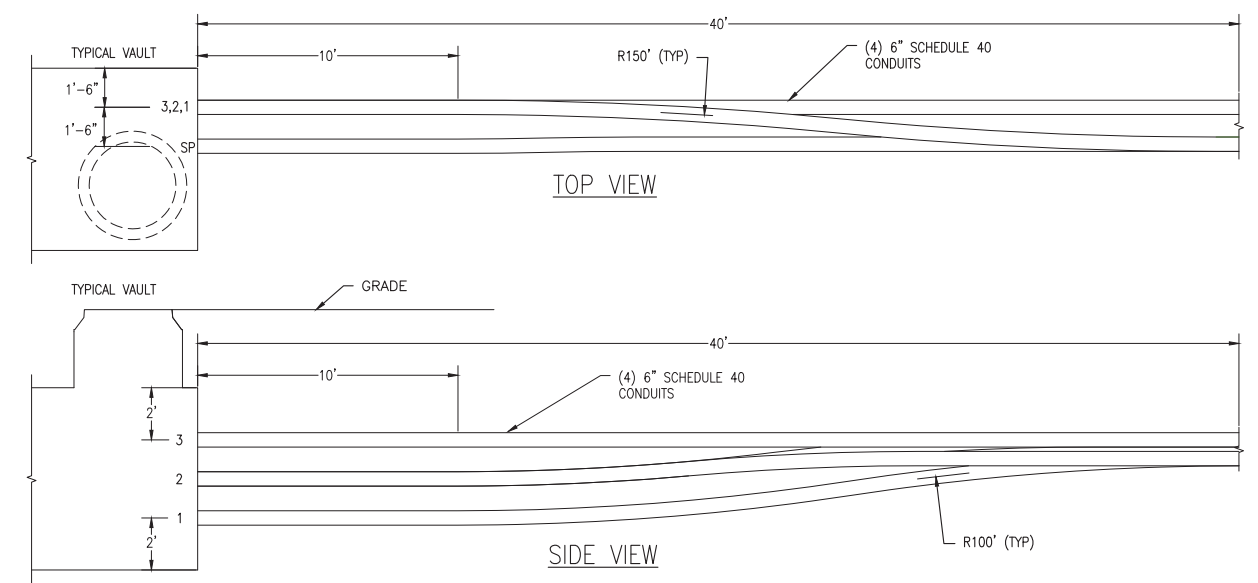
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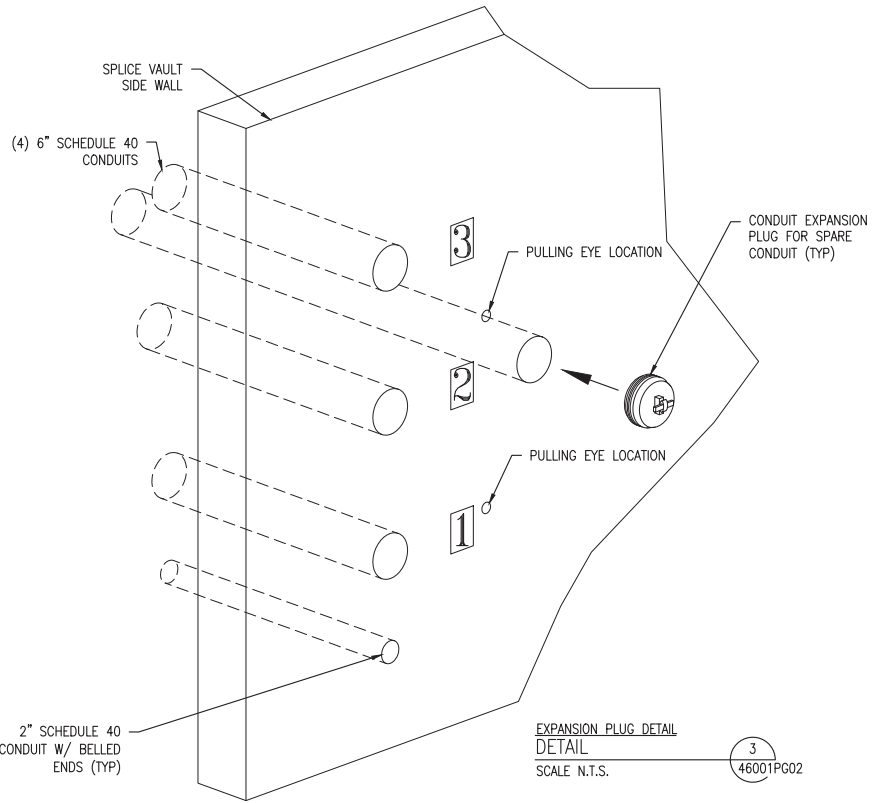


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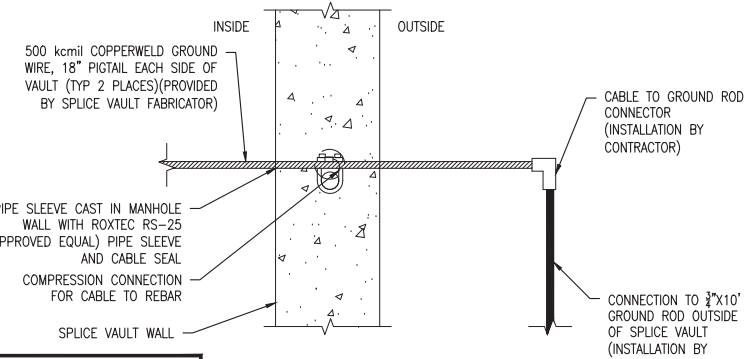
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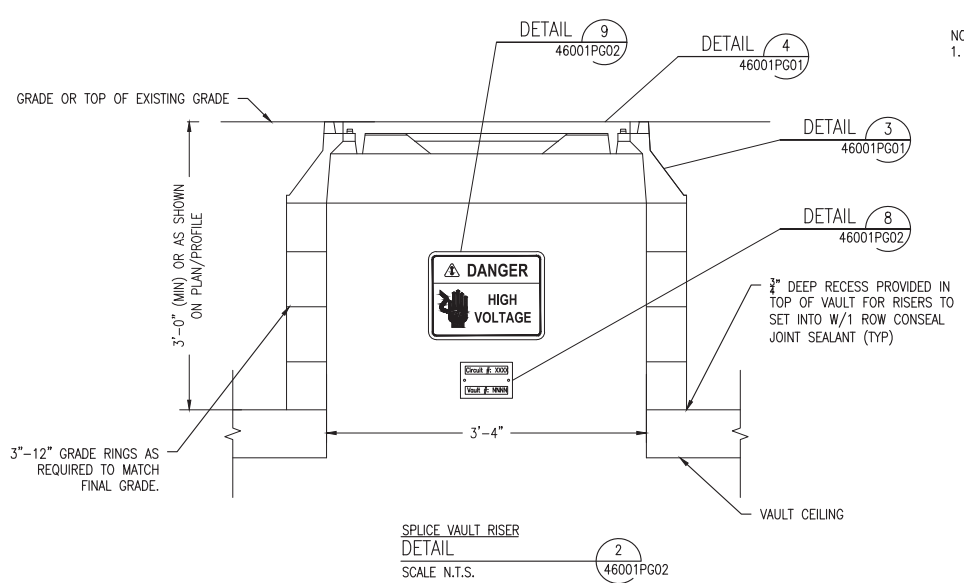
SPLICE VAULT TRANSITION DETAIL
SCALE N.T.S. 46001PG02



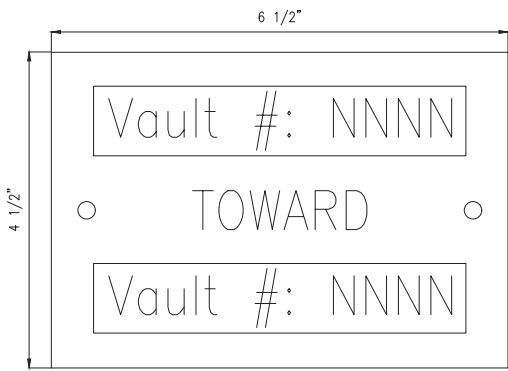
EXPANSION PLUG DETAIL
SCALE N.T.S. 46001PG02



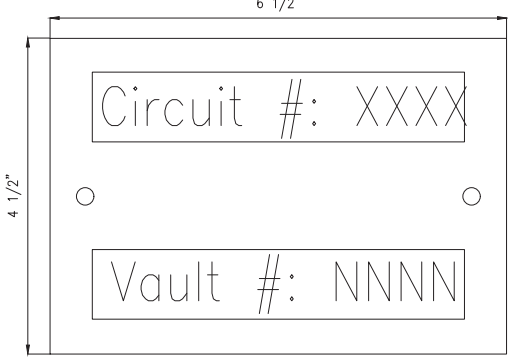
GROUND WIRE DETAIL
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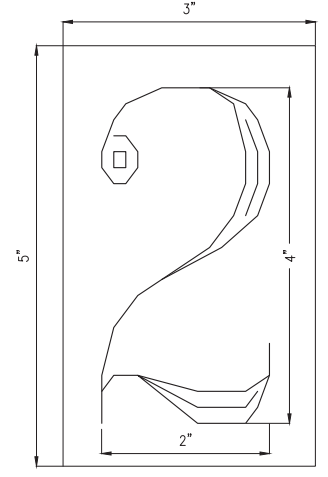
SPLICE VAULT RISER DETAIL
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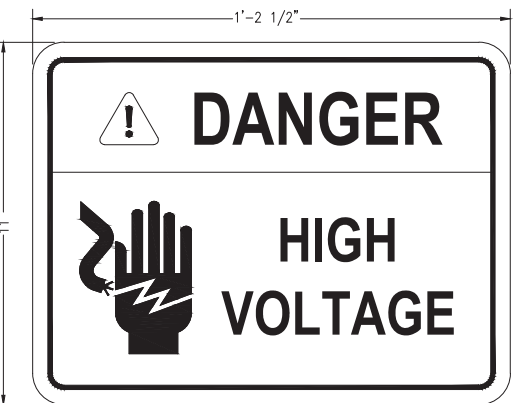
TOWARD SIGN DETAIL
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CIRCUIT IDENTIFICATION TAG DETAIL
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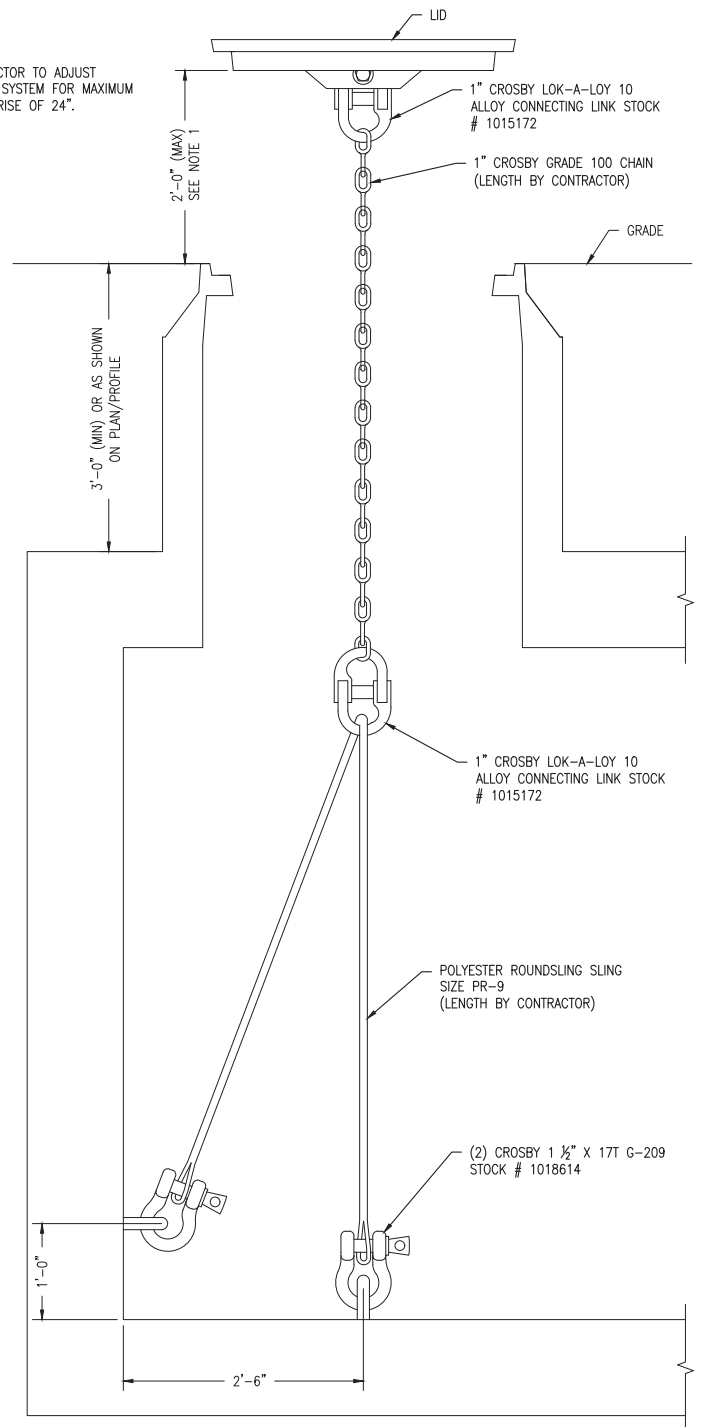


PHASE IDENTIFICATION TAG DETAIL
SCALE N.T.S. 46001PG02



DANGER WARNING SIGN DETAIL
SCALE N.T.S. 46001PG02

NOTE:
1. CONTRACTOR TO ADJUST TETHER SYSTEM FOR MAXIMUM COVER RISE OF 24".



MANHOLE TETHER DETAIL
SCALE N.T.S. 46001PG02

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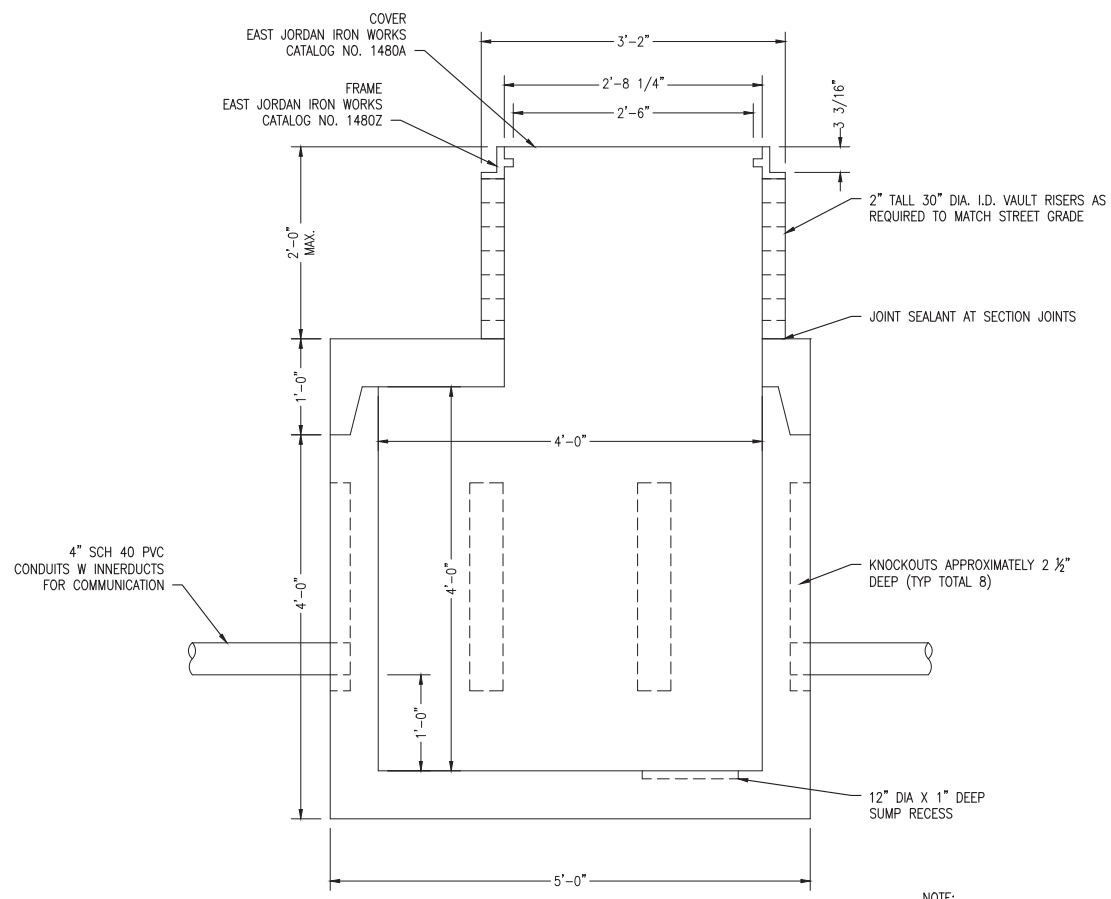
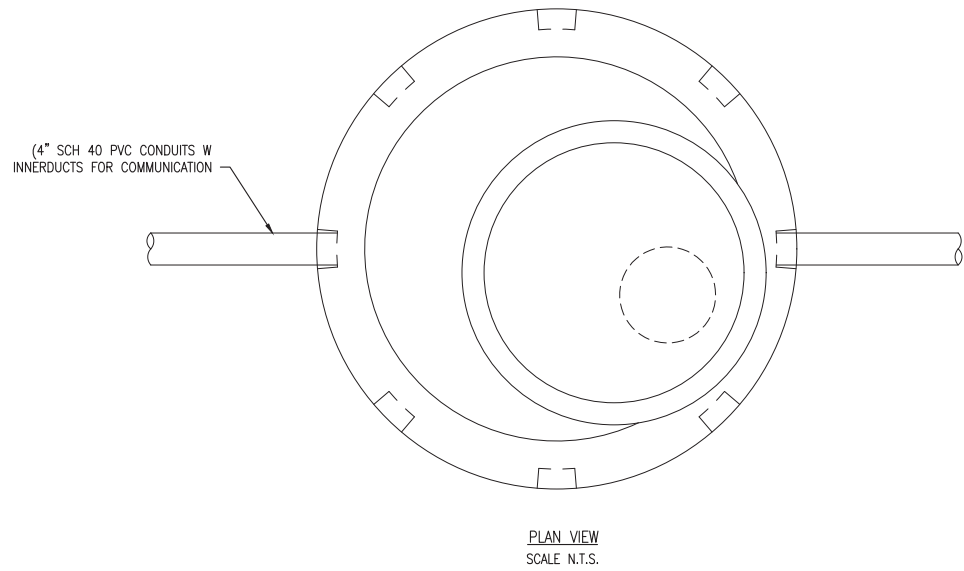
EVERSOURCE ENERGY

LINE 1020 & 1703 COS COB - GREENWICH
115-kV UNDERGROUND TRANSMISSION LINE
SPLICE VAULT DETAILS
GREENWICH, CONNECTICUT

DATE	BY	CHKD	DATE	APP	DATE
10-02-18	BWF	DM	10-02-18	LH	10-02-18
H-SCALE N.T.S.		SIZE ID		FIELD BOOK & PAGES	
V-SCALE N.T.S.		V.S.		R.E. DWG	
R.E. PROJ. NUMBER		NUSCO 01242-46001PG02			



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COMMUNICATION VAULT
 DETAIL
 SCALE N.T.S. 1
45001PG03

NOTE:
 COMMUNICATION VAULT SHALL BE RATED FOR
 AASHTO STANDARD HS20-44 DIRECT WHEEL
 LOADING PLUS IMPACT LOADING

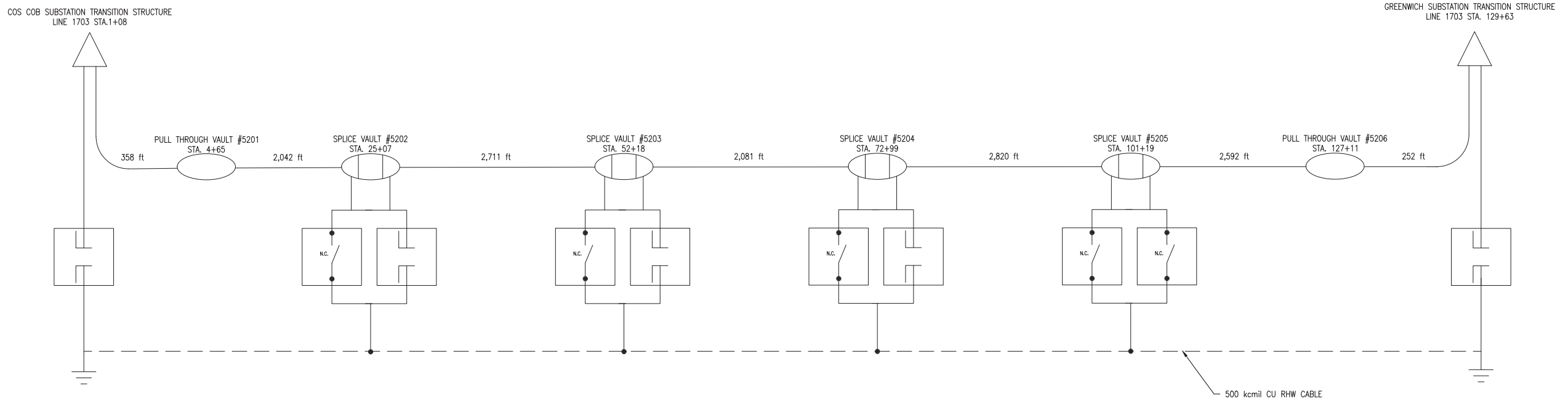
D&M PLAN SUBMITTAL 10/02/2018



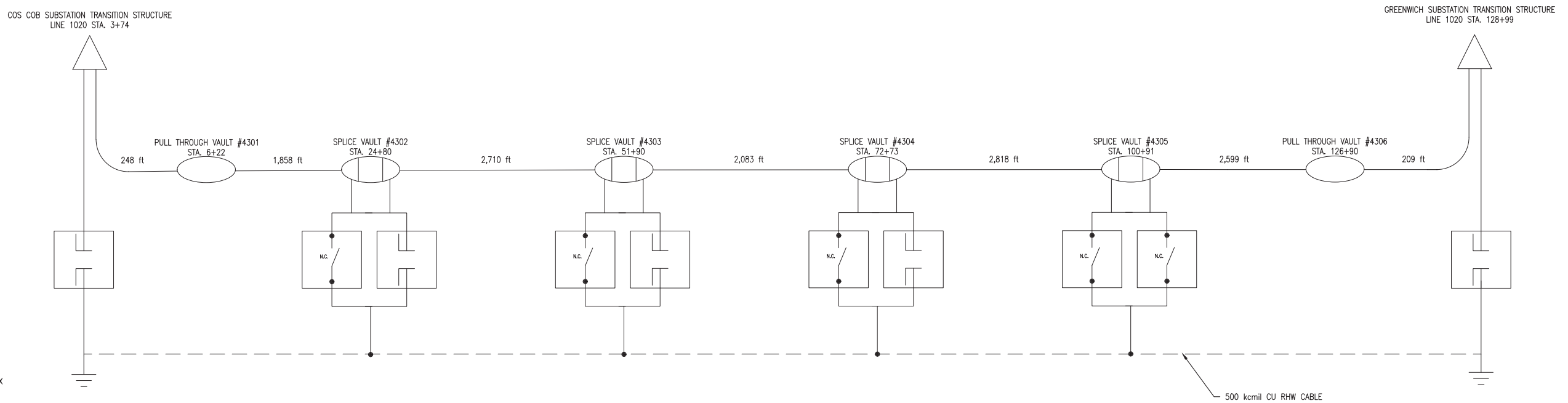
EVERSOURCE ENERGY					
TITLE LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE COMMUNICATION VAULT DETAILS GREENWICH, CONNECTICUT					
BY	BWF	CHKD	DM	APP	LH
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18
H-SCALE	N.T.S.	SIZE	ID	FIELD BOOK & PAGES	
V-SCALE	N.T.S.	V.S.		R.E. DWG	
R.E. PROJ. NUMBER	NUSCO				01242-46001PG03



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LINE 1703 COS COB SUBSTATION - GREENWICH SUBSTATION SHEATH BOUNDING SCHEMATIC
SCALE - N.T.S.



LINE 1020 COS COB SUBSTATION - GREENWICH SUBSTATION SHEATH BOUNDING SCHEMATIC
SCALE - N.T.S.

LEGEND

- TERMINATOR
- SHEATH BREAK SPLICE
- NON-SHEATH BREAK SPLICE
- PARALLEL GROUND CONDUCTOR
- GROUND ROD
- SHEATH VOLTAGE LIMITER (SVL) LINK BOX
- GROUNDING LINK BOX
- CROSS BONDING LINK BOX, WITH SVL'S

NOTE:
ALL LINK BOXES ARE 3-PHASE

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SURVEY ENGINEERING/ROW DEPARTMENT"



D&M PLAN SUBMITTAL 10/02/2018

EVERSOURCE ENERGY					
TITLE LINE 1020 & 1703 COS COB - GREENWICH 115-kV UNDERGROUND TRANSMISSION LINE SHEATH BONDING SCHEMATIC GREENWICH, CONNECTICUT					
BY	BWF	CHKD	DM	APP	LH
DATE	10-02-18	DATE	10-02-18	DATE	10-02-18
H-SCALE	N.T.S.	SIZE	ID	FIELD BOOK & PAGES	
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R.E. PROJ. NUMBER					NUSCO
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