

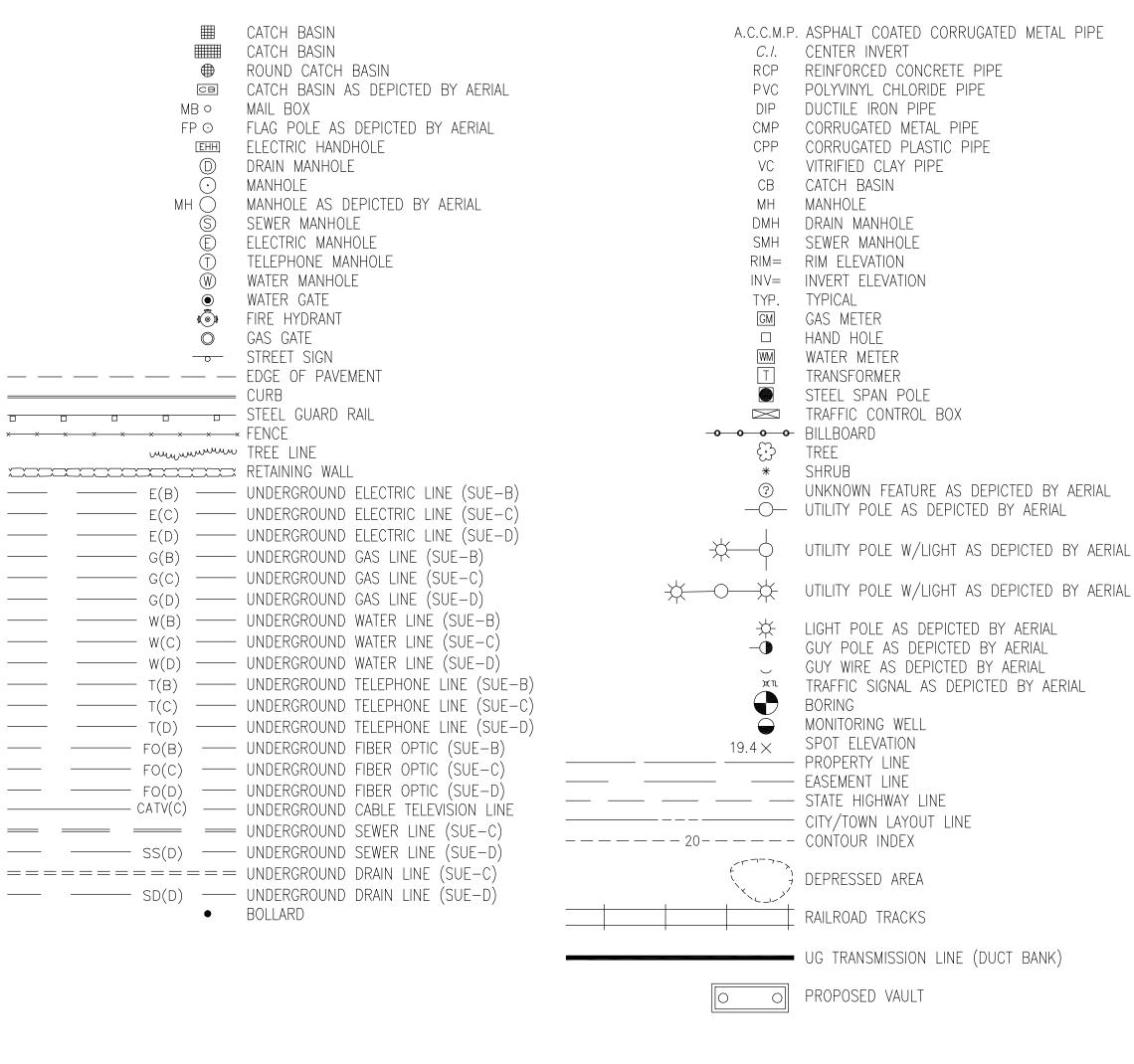
VICINITY MAP SOUTH END-GLENBROOK 115-kV UG TRANSMISSION LINE ELM ST E MAIN ST ELM ST SOUTH END SUBSTATION "FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"

LINE 1151 SOUTH END - GLENBROOK 115-kV UNDERGROUND TRANSMISSION LINE FOR STAMFORD RELIABILITY CABLE PROJECT NORTHEAST UTILITIES SERVICE COMPANY

GENERAL NOTES

- 1. 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 NORTHEAST UTILITIES SERVICES COMPANY. 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
- 2. HORIZONTAL DATUM REFERENCES NAD83 CONNECTICUT STATE PLANE ZONE.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE COMPLETE 115-kV CABLE SYSTEM FROM TERMINATOR TO TERMINATOR.
- 4. ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED UTILITY PROPERTY.
- 5. ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED.
- 6. DUCT BANK SHALL MAINTAIN COVER DEPTH OF 3'-0", A 2'-0" VERTICAL CLEARANCE OVER OR UNDER EXISTING UTILITIES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 7. FOR ANY AREAS DISTURBED BY CONSTRUCTION, AT COMPLETION OF CONSTRUCTION ACTIVITIES, THESE AREAS WILL BE SUBSTANTIALLY RESTORED TO THEIR PRECONSTRUCTION CONDITIONS.
- 8. CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND REPAIRING ALL PAVEMENT, DRIVEWAYS, CURBS, AND SIDEWALKS, DISTURBED DUE TO CONSTRUCTION, IN ACCORDANCE WITD DRAWINGS AND SPECIFICATIONS. ALL REPLACEMENTS AND REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF STAMFORD AND CONNDOT STANDARDS AND SPECIFICATIONS.
- 10. 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.
- 11. 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).
- 12. DEPTH OF CROSSING UTILITY LATERALS HAVE NOT BEEN VERIFIED ON ALL UTILITIES 12" AND SMALLER.
- 13. DEPTHS OF UTILITIES IDENTIFIED AS ABANDONED WERE NOT VERIFIED AND ARE ASSUMED IN DRAWINGS.
- 14. CONTRACTOR TO COORDINATE WITH THE CITY OF STAMFORD TRAFFIC ENGINEER PRIOR TO DISTURBING TRAFFIC SENSING INDUCTIVE LOOP DETECTORS.

LEGEND



NORTHEAST UTILITIES SERVICE COMPANY PROJECT NUMBER: 403500

NORTHEAST UTILITIES SERVICE COMPANY PROJECT ENGINEER: PETER NOVAK (860) 665-6500 POWER ENGINEERS PROJECT NUMBER: 127724

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





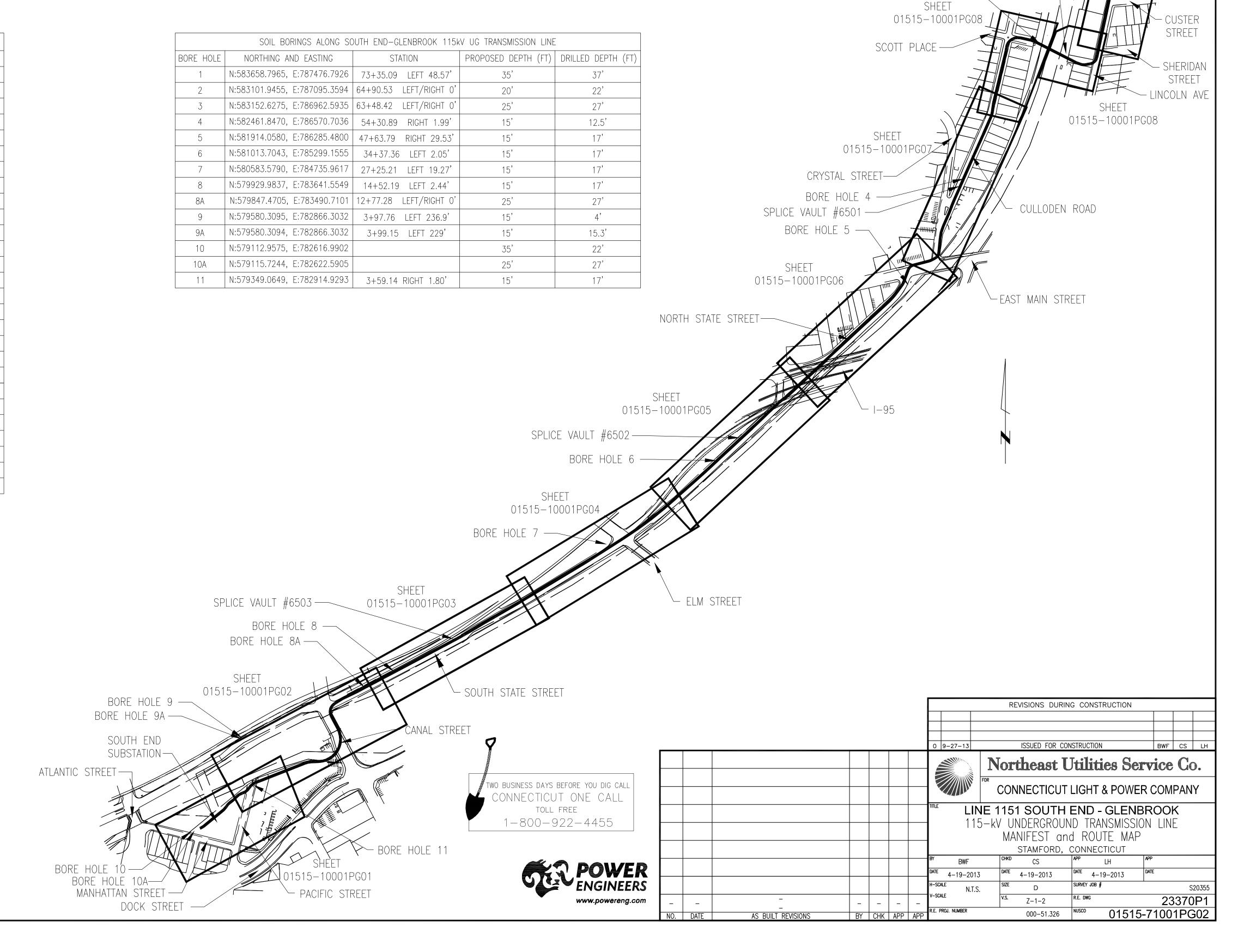
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REVISIONS DURING CONSTRUCTION

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

DRAWING MANIFEST TITLE/DESCRIPTION DRAWING NO. REVISION DATE 09-27-2013 01515-71001PG01 COVER SHEET 09-27-2013 01515-71001PG02 MANIFEST and ROUTE MAP 09-27-2013 01515-10001PG01 PLAN and PROFILE STA. 0+00 TO 5+00 01515-10001PG02 PLAN and PROFILE STA. 5+00 TO 14+00 09-27-2013 01515-10001PG03 09-27-2013 PLAN and PROFILE STA. 14+00 TO 23+00 01515-10001PG04 PLAN and PROFILE STA. 23+00 TO 32+00 09-27-2013 09-27-2013 01515-10001PG05 PLAN and PROFILE STA. 32+00 TO 41+00 01515-10001PG06 09-27-2013 PLAN and PROFILE STA. 41+00 TO 50+00 01515-10001PG07 PLAN and PROFILE STA. 50+00 TO 59+00 09-27-2013 09-27-2013 01515-10001PG08 PLAN and PROFILE STA. 59+00 TO 68+00 01515-10001PG09 PLAN and PROFILE STA. 68+00 TO 75+99 09-27-2013 09-27-2013 01515-10001PG05A PLAN AND PROFILE AT 1-95 PIERS 09-27-2013 01515-10001PG08A RAILROAD PIPE-JACKING DETAIL 09-27-2013 01515-46001PG01 SPLICE VAULT DETAIL 09-27-2013 01515-46001PG02 SPLICE VAULT DETAIL 01515-47001PG01 S.E. TRANSITION STRUCTURE DETAIL 09-27-2013 01515-47001PG02 S.E. TRANSITION STRUCTURE DETAIL 09-27-2013 09-27-2013 01515-47001PG03 S.E. TRANSITION STRUCTURE DETAIL S.E. TRANSITION STRUCTURE HARDWARE DETAIL 09-27-2013 01515-47001PG04 09-27-2013 S.E. TRANSITION STRUCTURE HARDWARE DETAIL 01515-47001PG05 01515-47001PG06 GLENBROOK TERMINATION STRUCTURE 09-27-2013 09-27-2013 01515-60001 S.E. TRANSITION STRUCTURE FOUNDATION 09-27-2013 01515-71001PG03 DUCT BANK DETAIL 09-27-2013 MISCELLANEOUS DETAIL 01515-71001PG04 09-27-2013 01515-71001PG05 COMMUNICATION VAULT DETAIL 01515-71001PG06 SHEATH BONDING SCHEMATIC 09-27-2013 09-27-2013 01515-71001PG07 | SPLICE VAULT MAINTENANCE AND PROTECTION PLAN



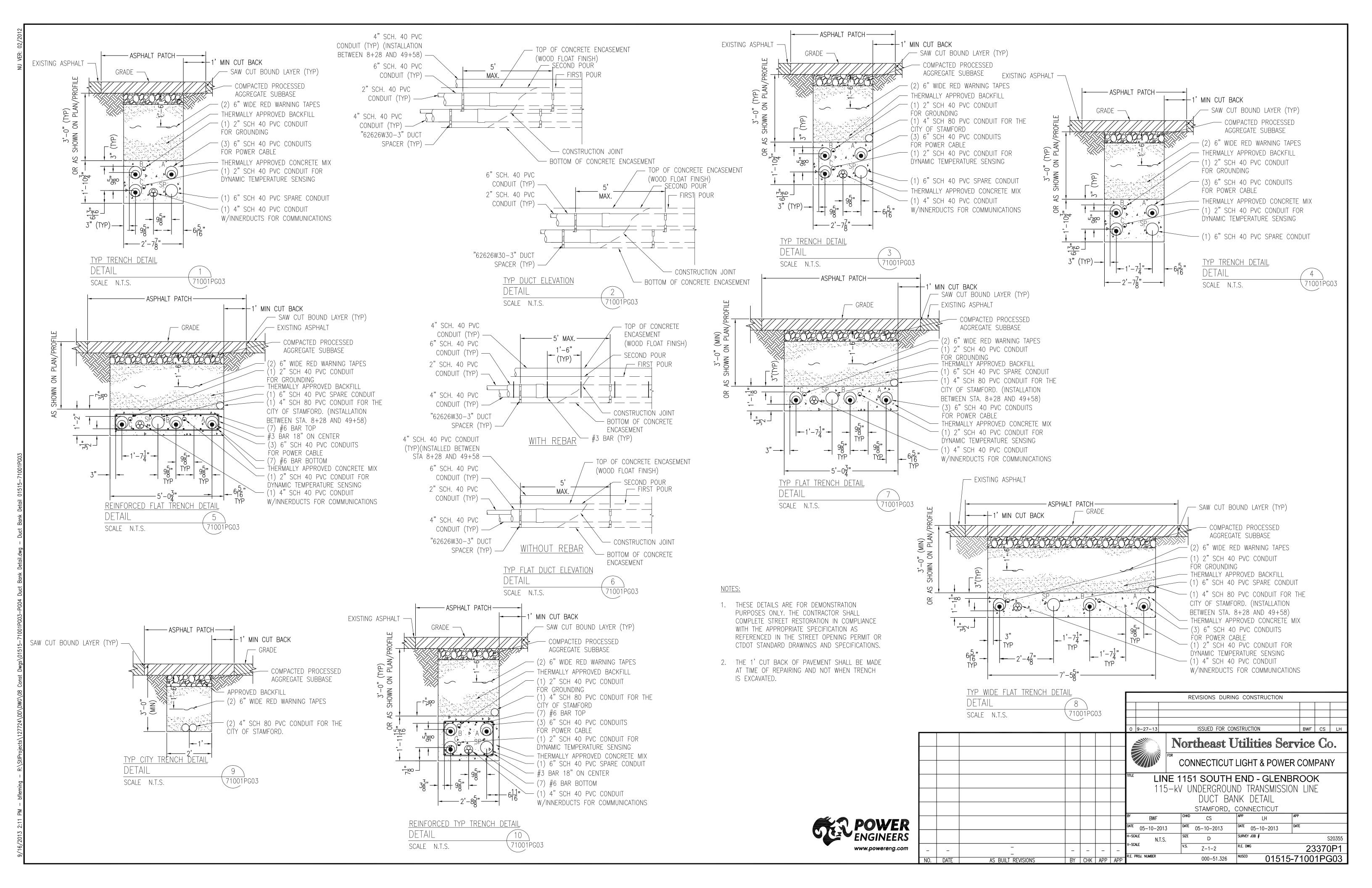
GLENBROOK SUBSTATION -

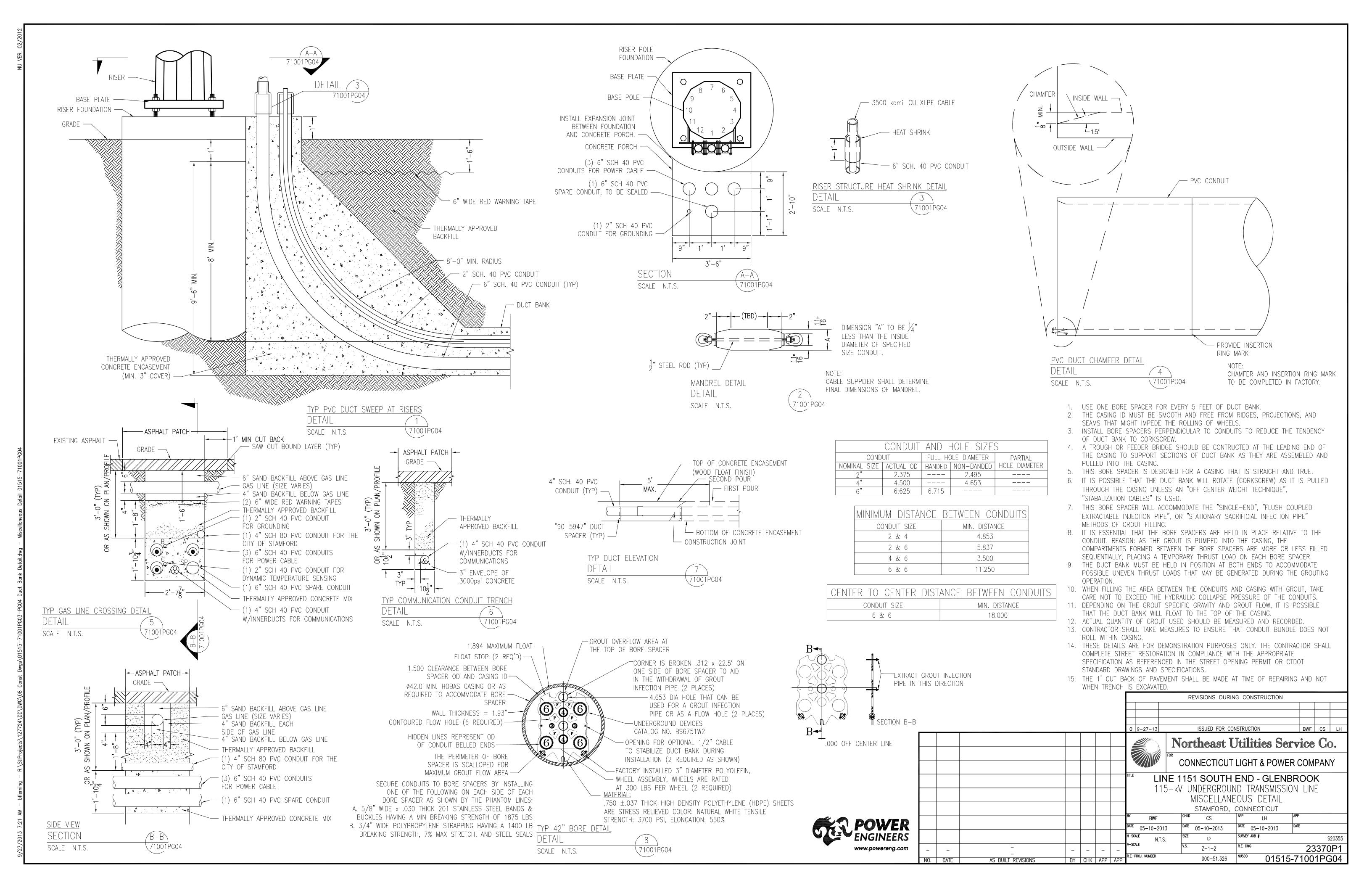
SHEET 01515-10001PG09

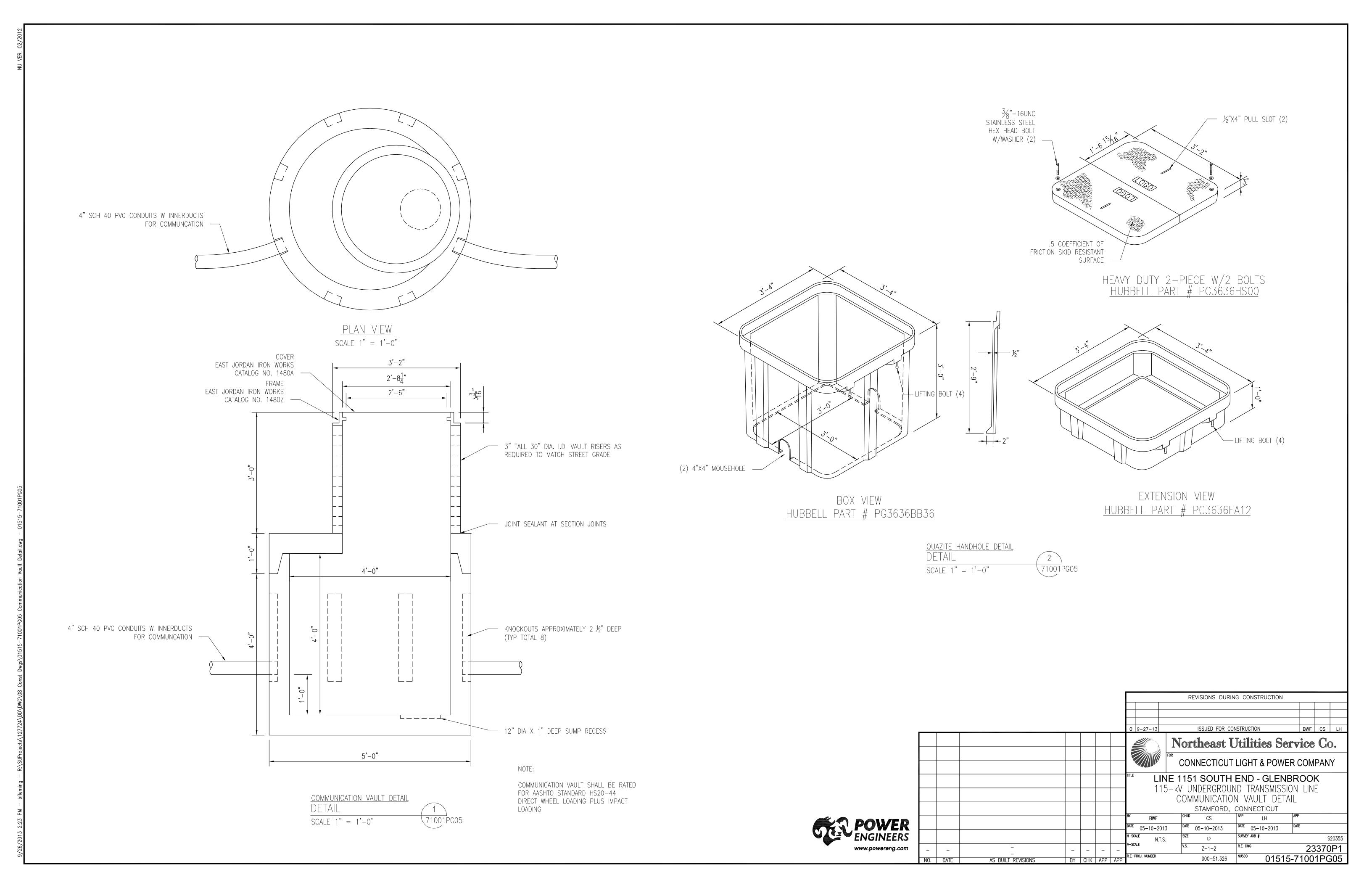
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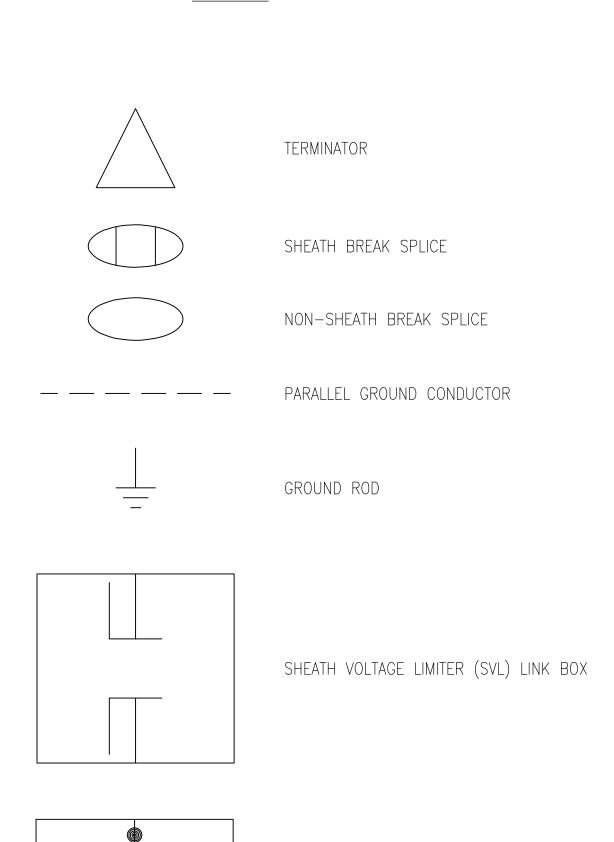
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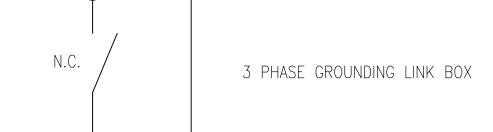
BORE HOLE 3

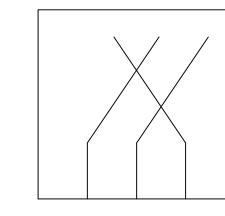




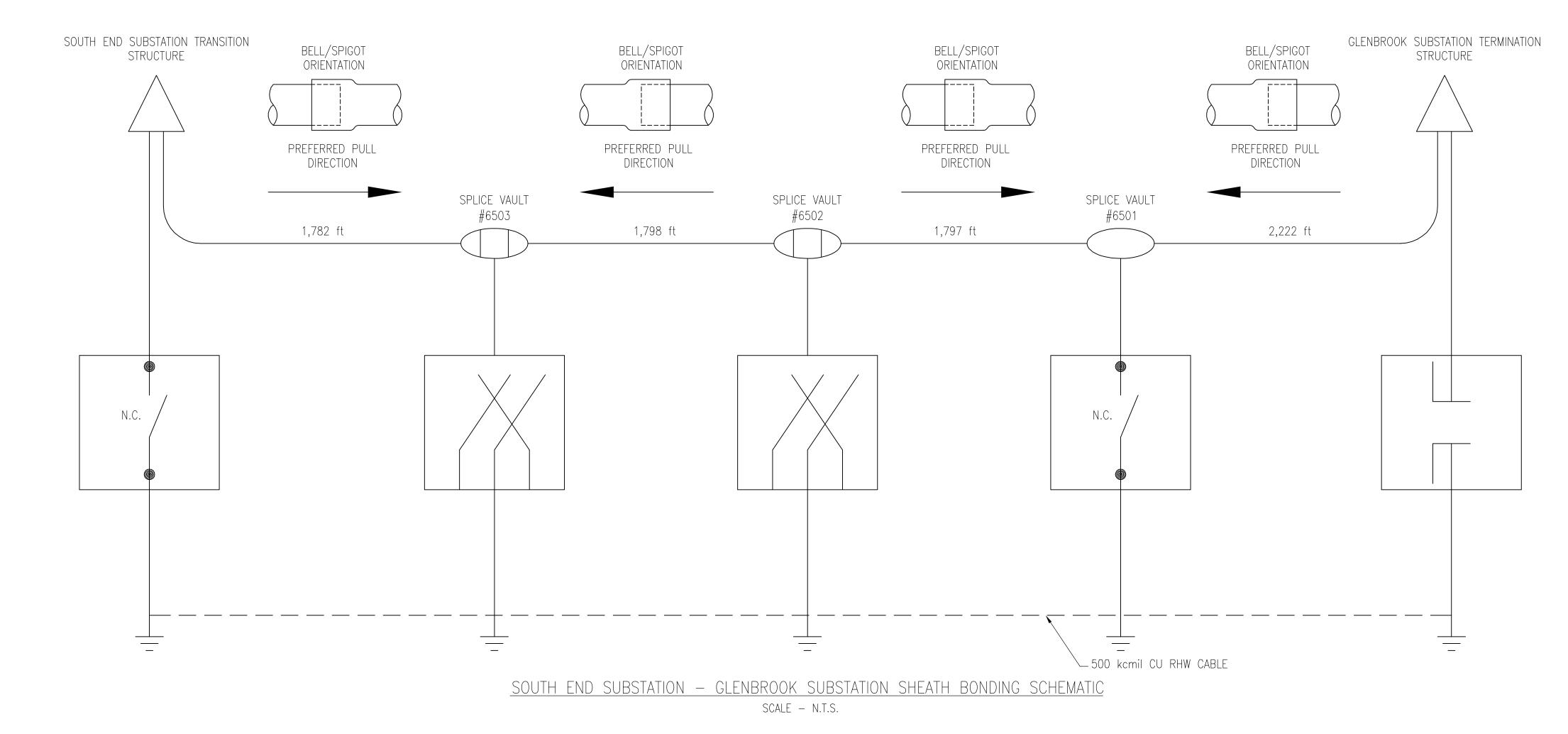






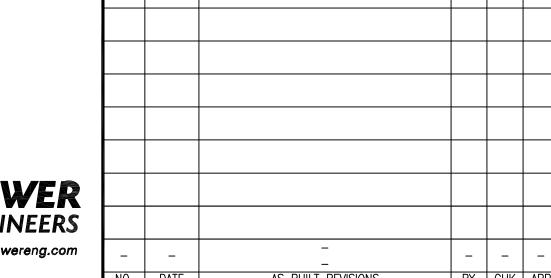


CROSS BONDING LINK BOX, WITH SVL'S

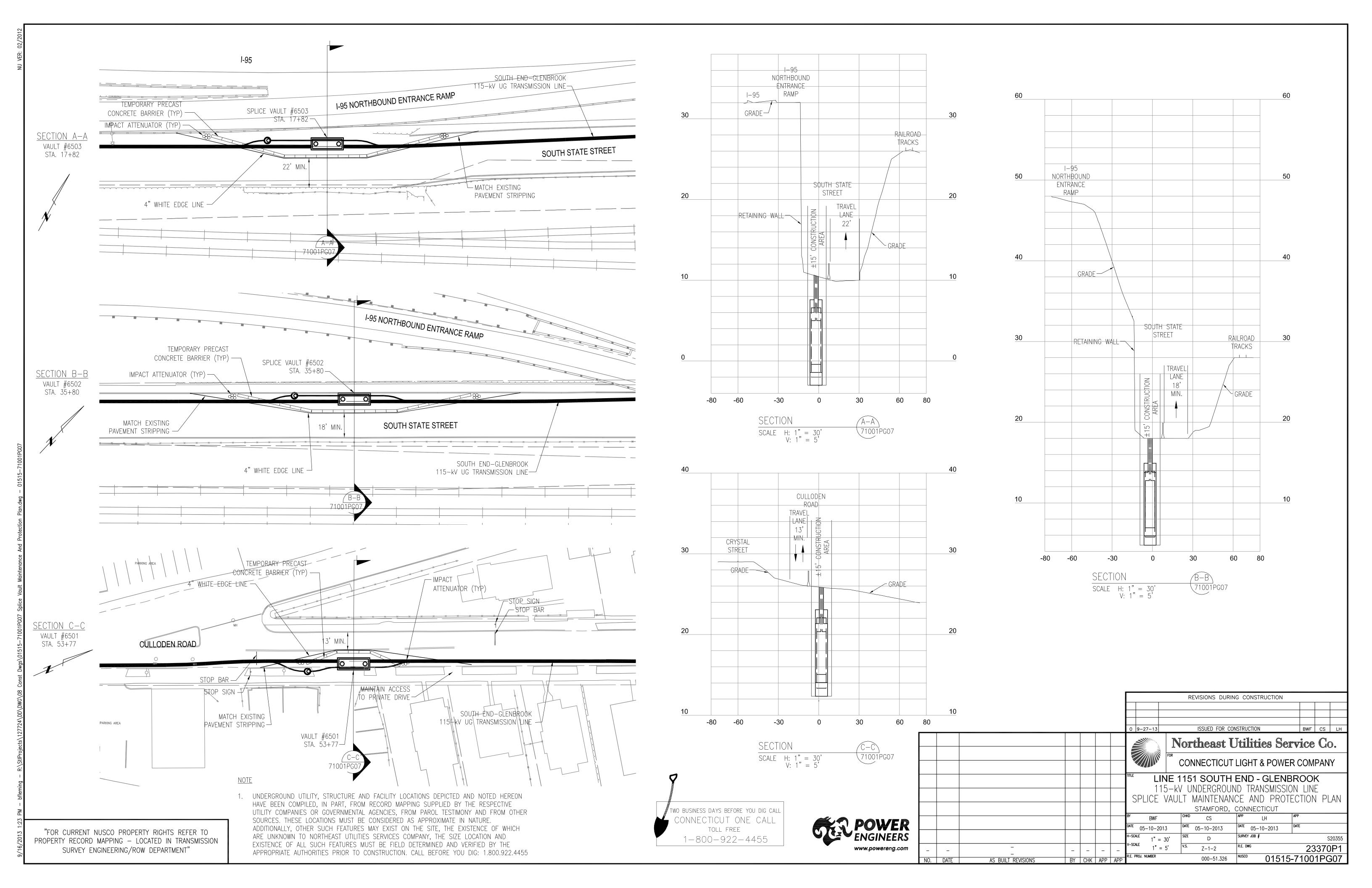


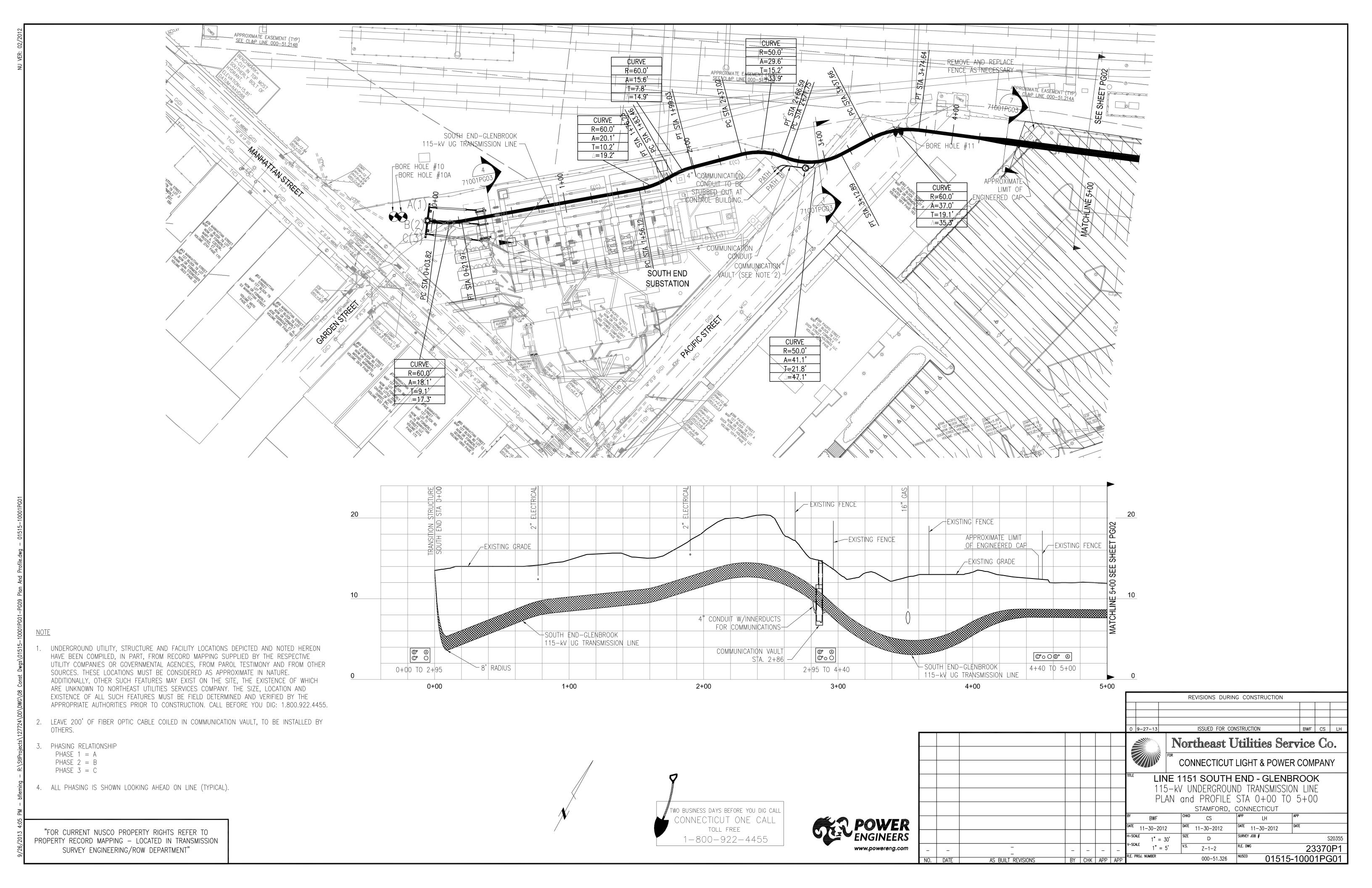
1. GROUNDING TO TIE INTO EXISTING GROUND GRID AT BOTH SUBSTATIONS.

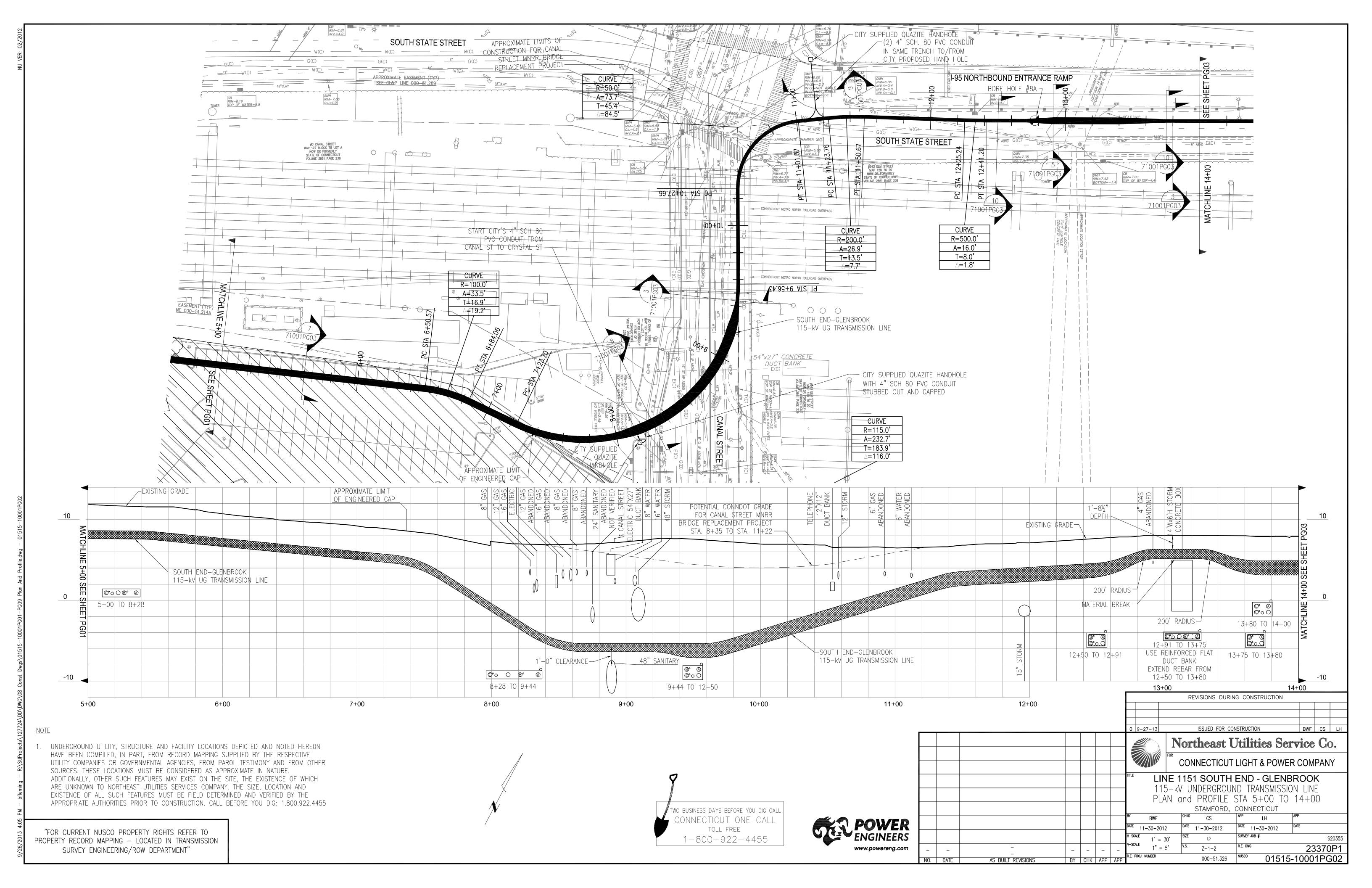
REVISIONS DURING CONSTRUCTION

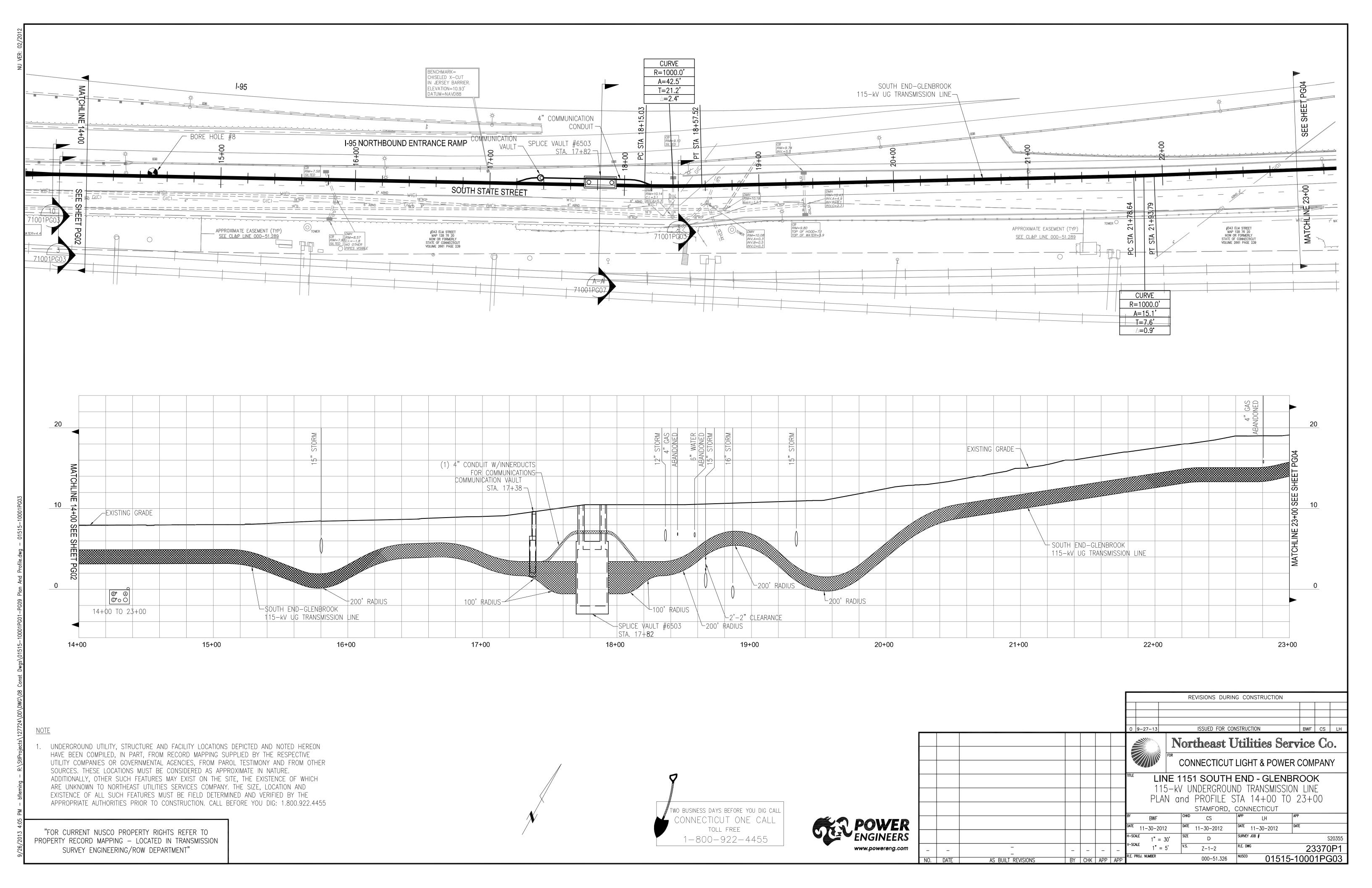


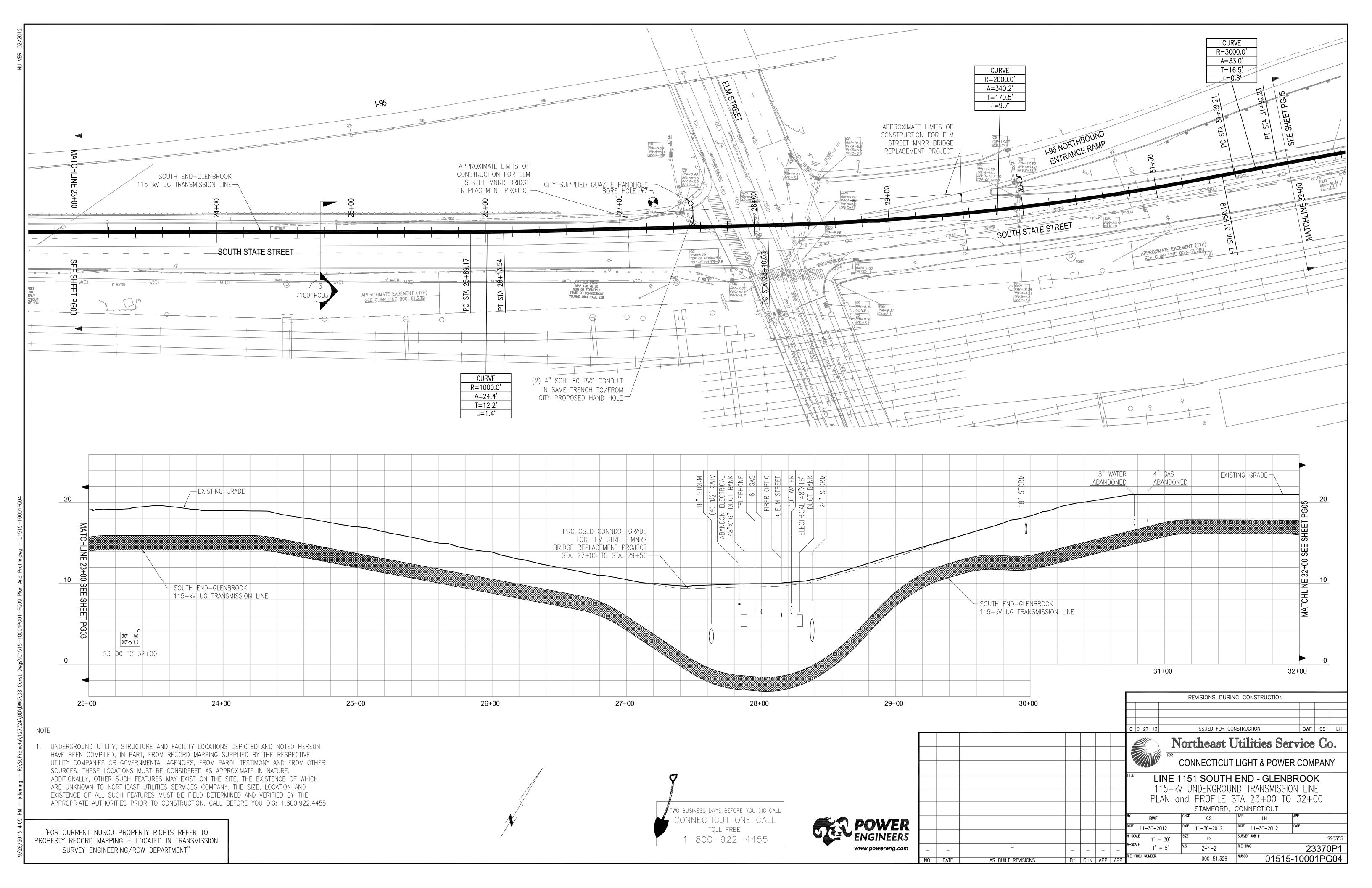
ISSUED FOR CONSTRUCTION Northeast Utilities Service Co. CONNECTICUT LIGHT & POWER COMPANY LINE 1151 SOUTH END - GLENBROOK 115-kV UNDERGROUND TRANSMISSION LINE SHEATH BONDING SCHEMATIC STAMFORD, CONNECTICUT DATE 11-30-2012 11-30-2012 DATE 11-30-2012 N.T.S. S20355 23370P1 Z-1-2 01515-71001PG06 000-51.326 AS BUILT REVISIONS BY CHK APP APP

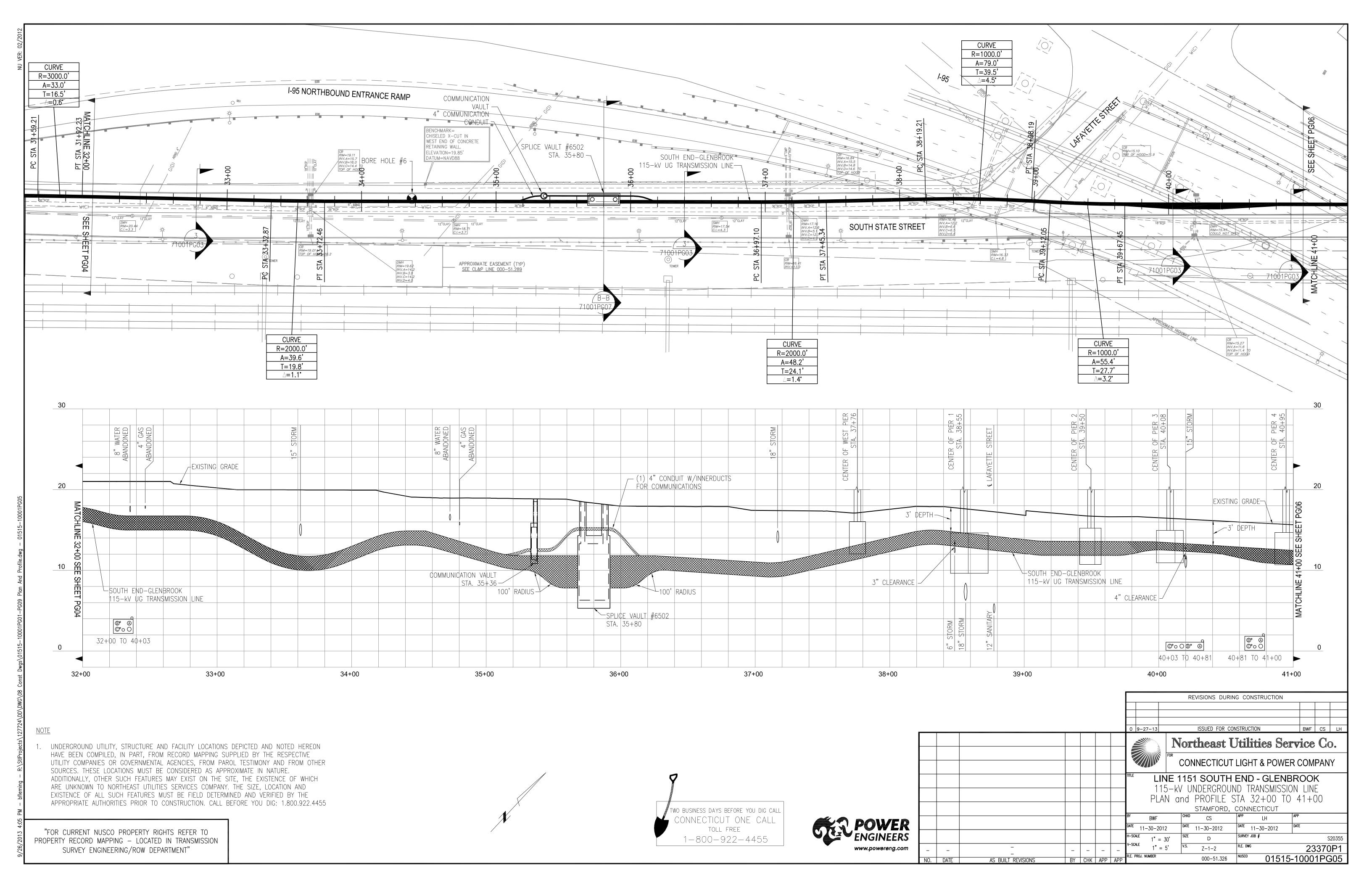


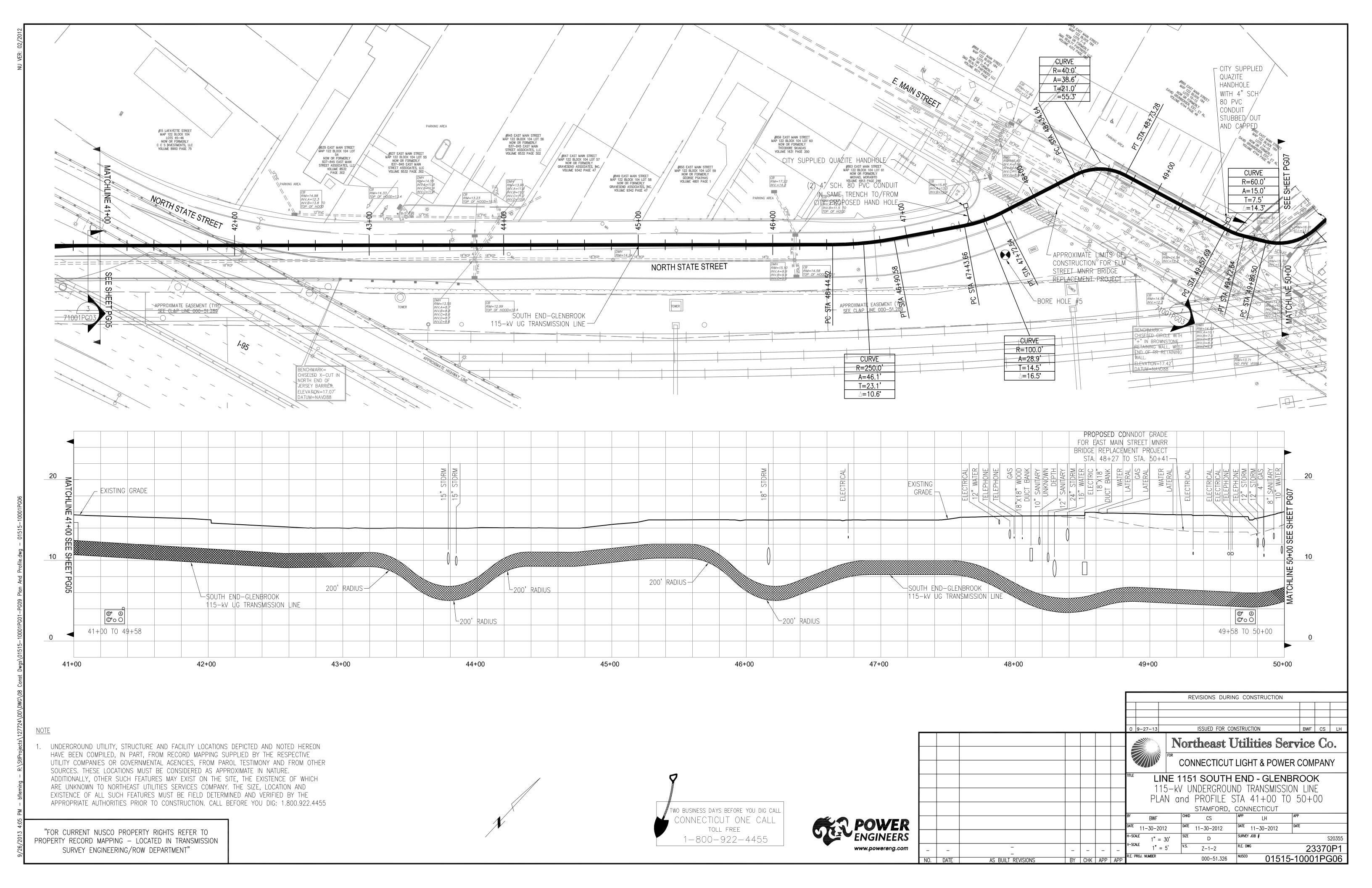


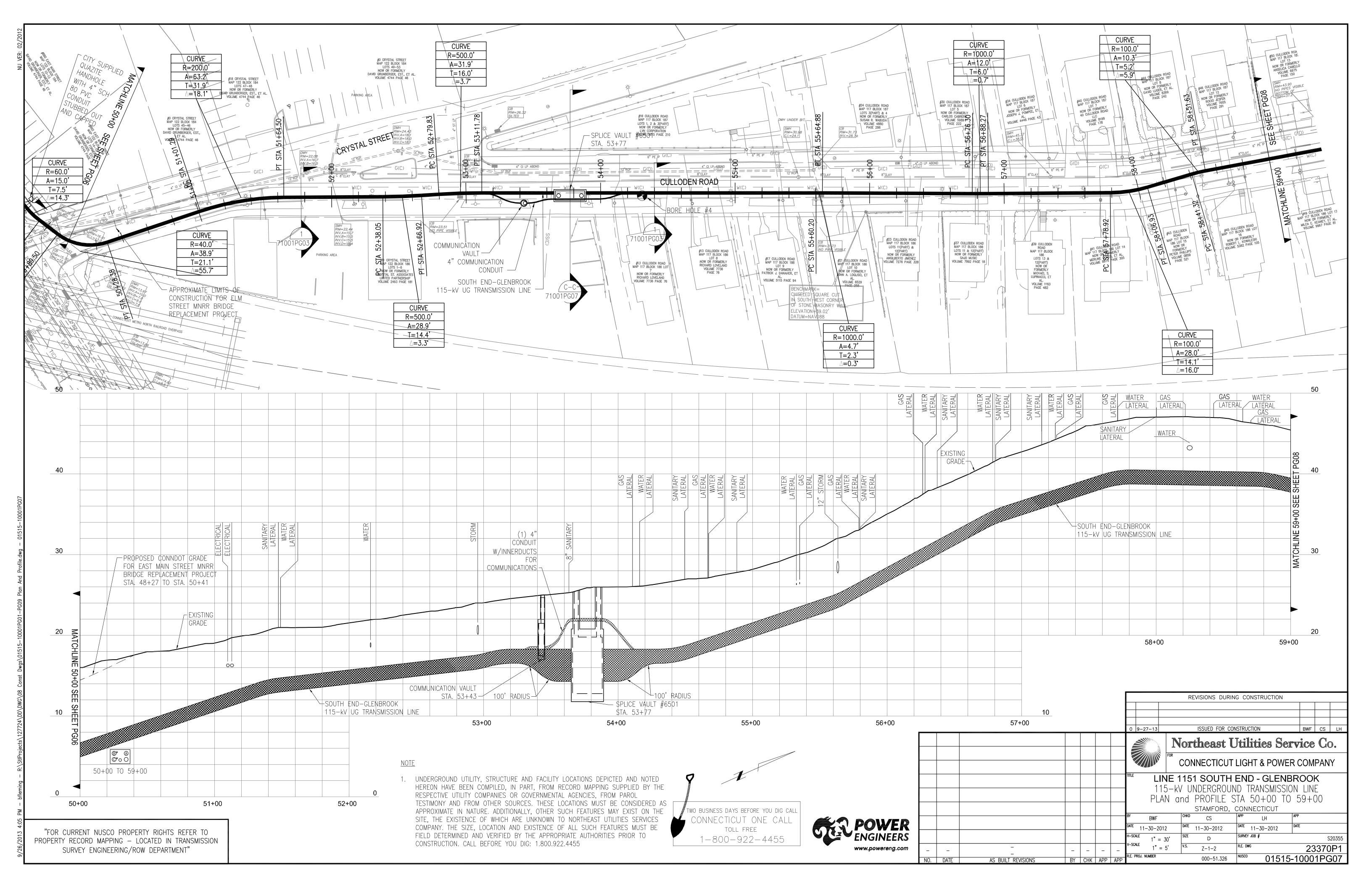


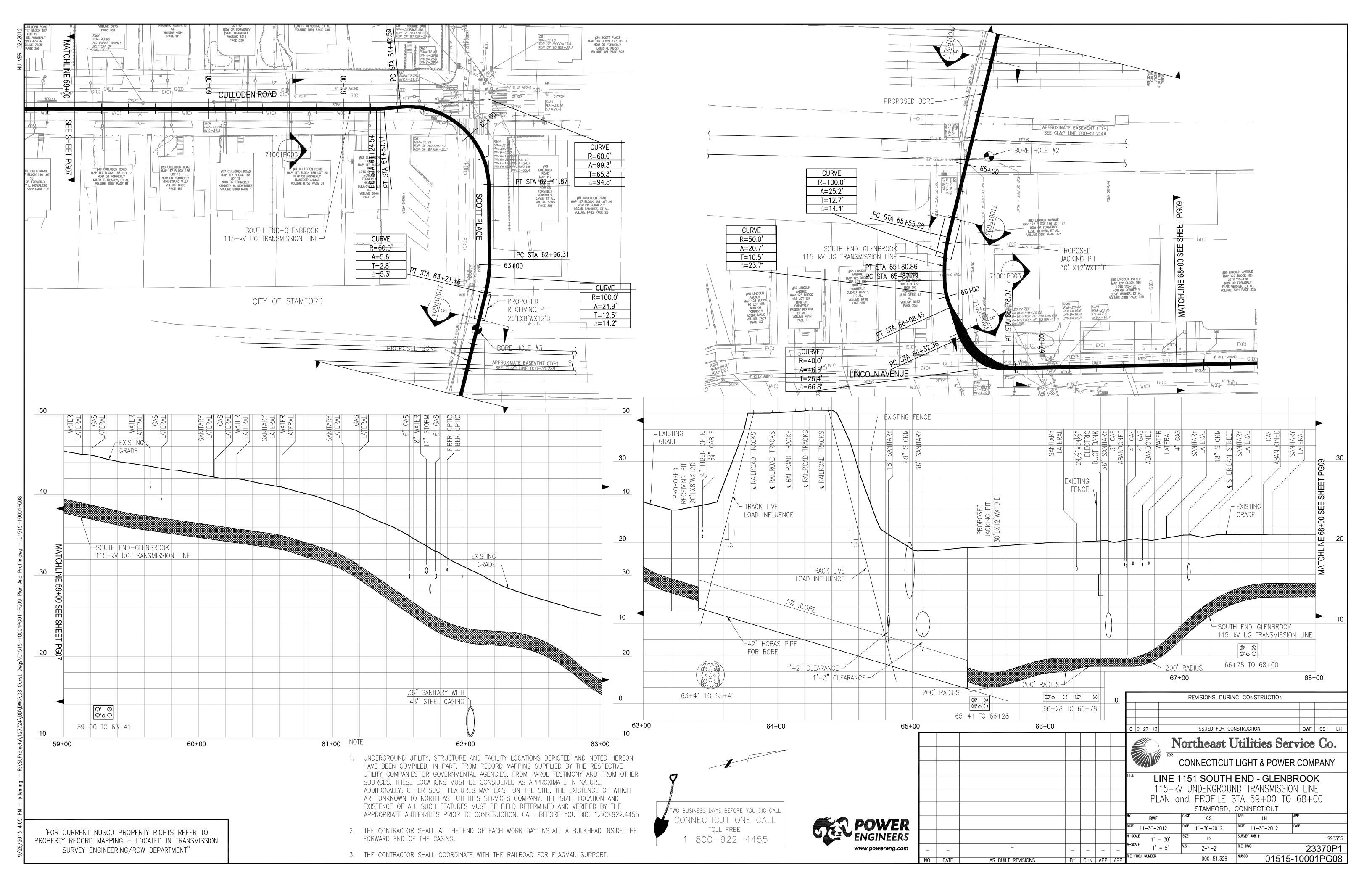


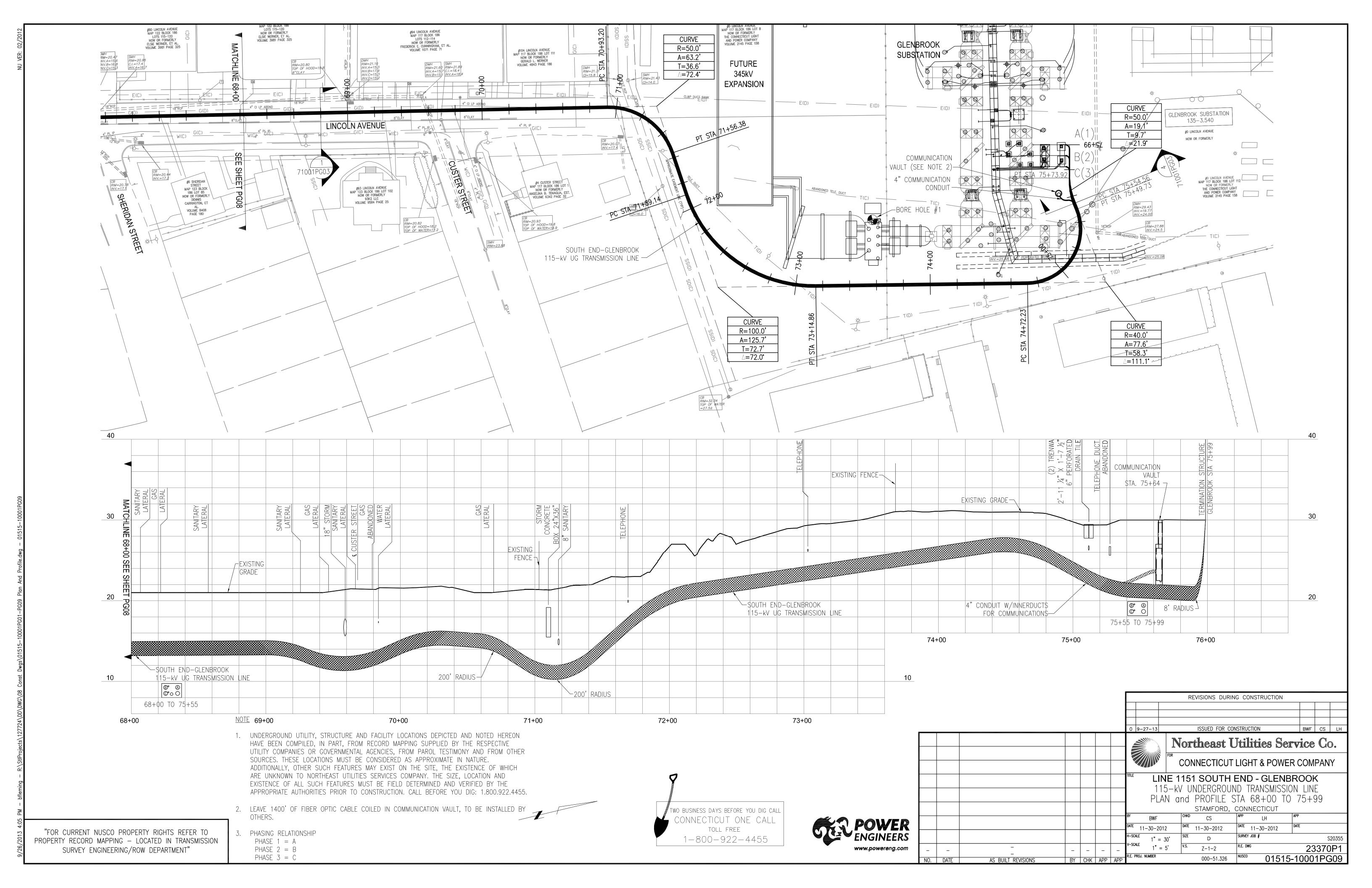


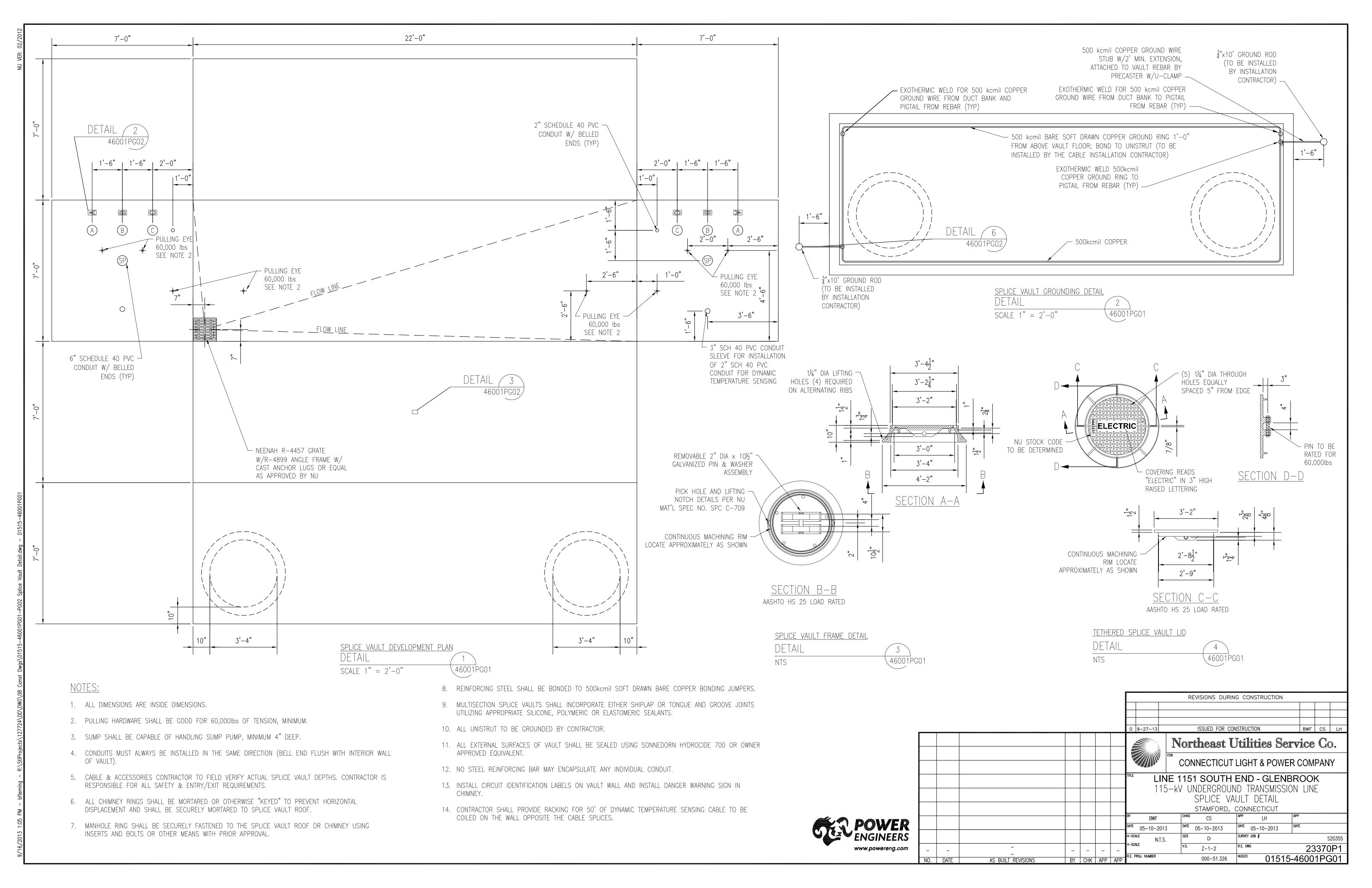


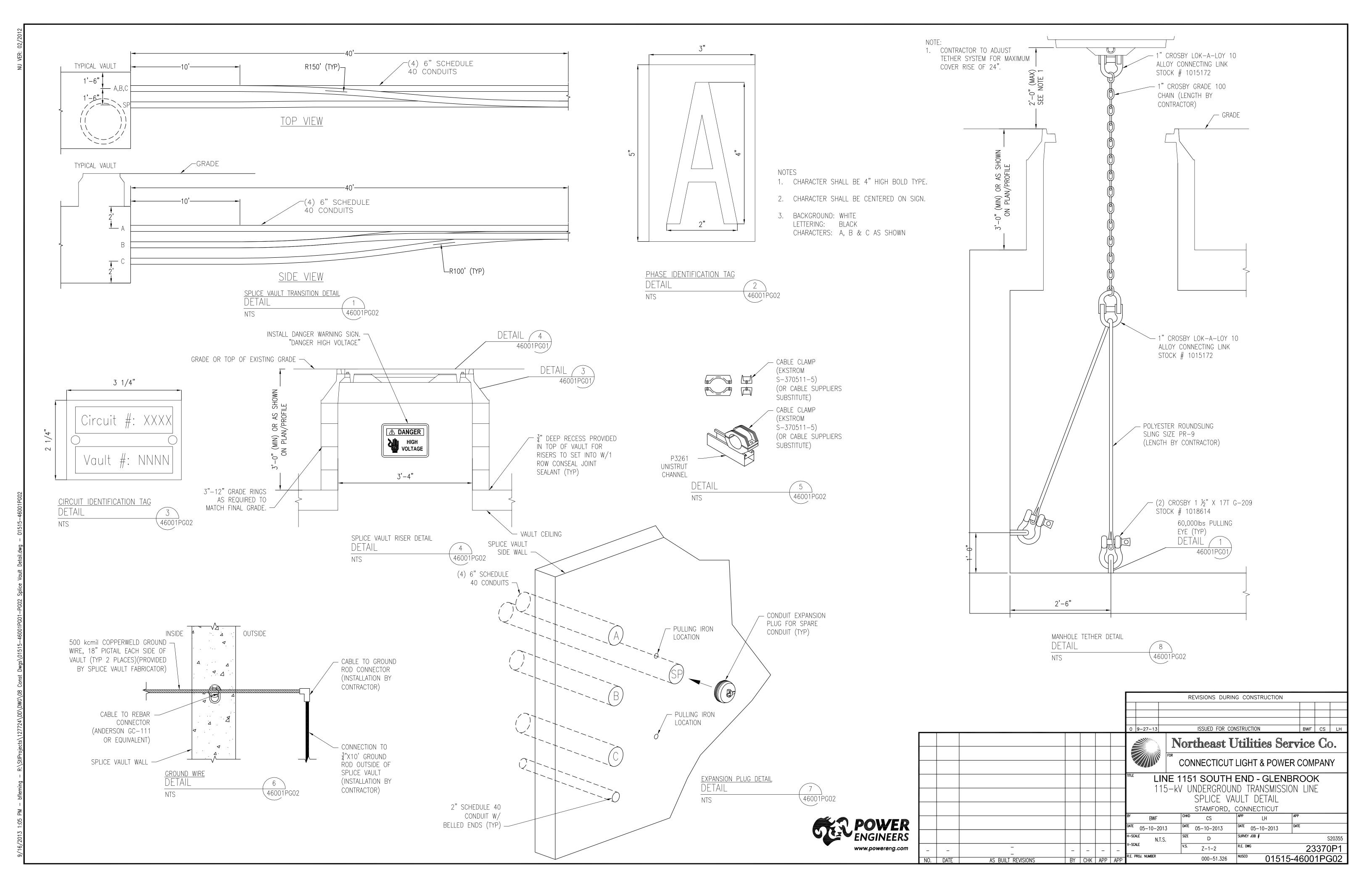


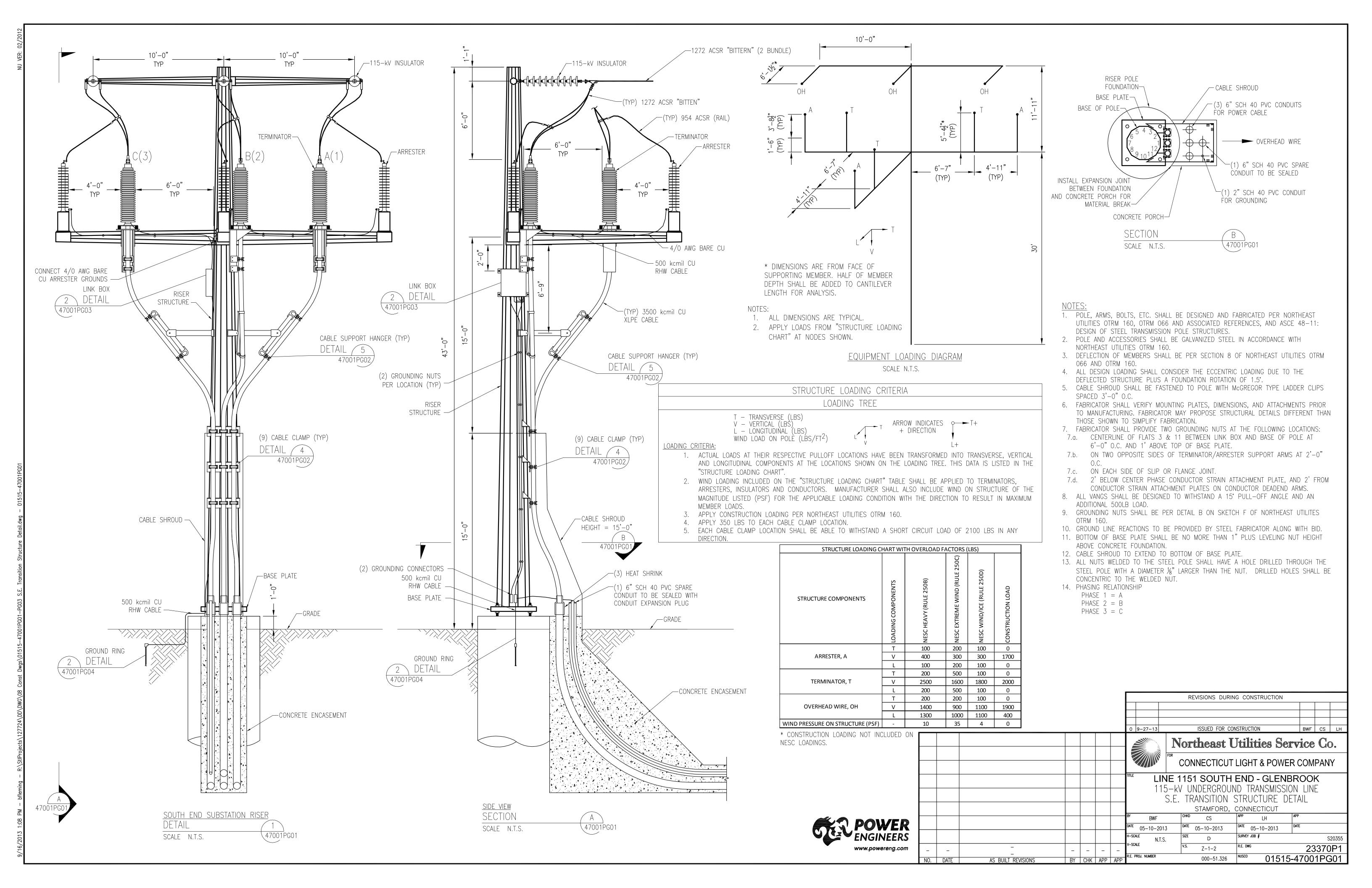


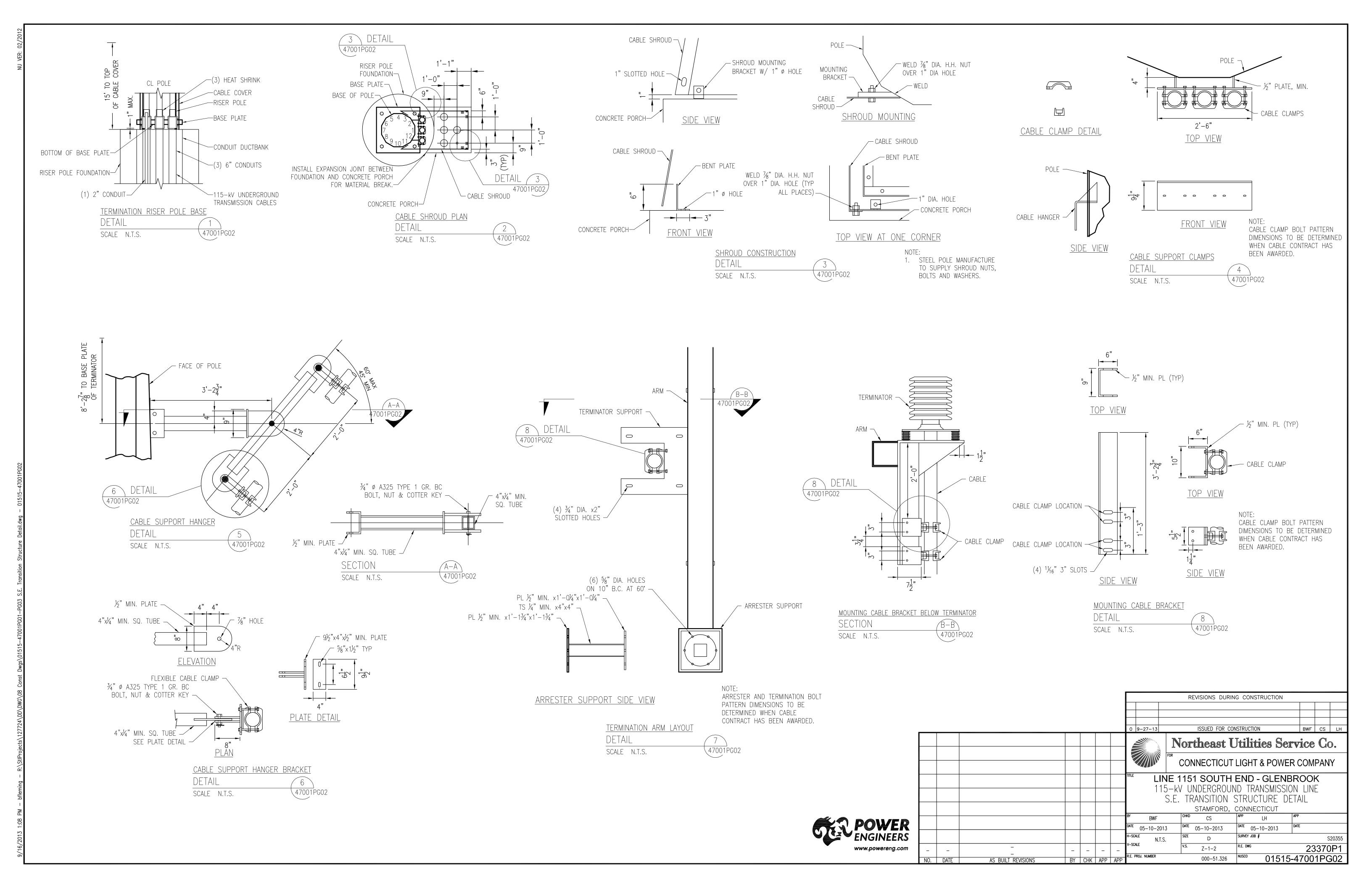






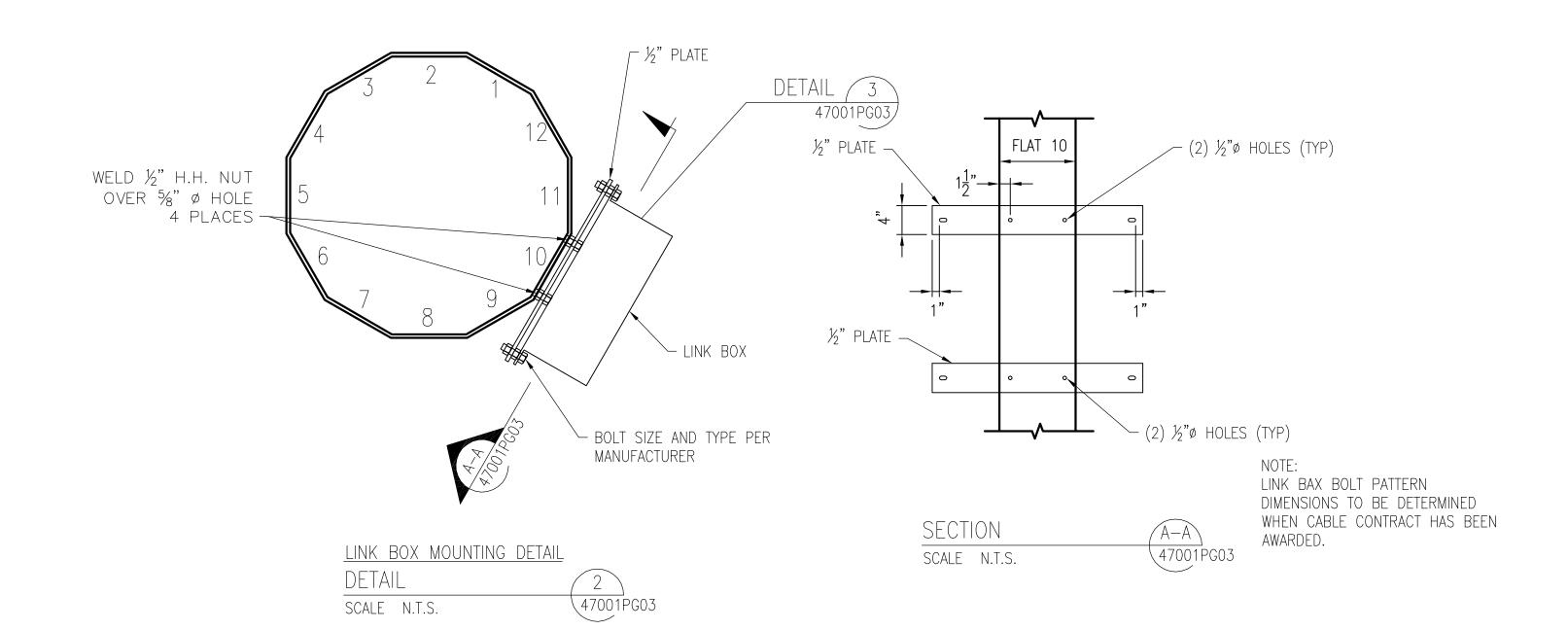


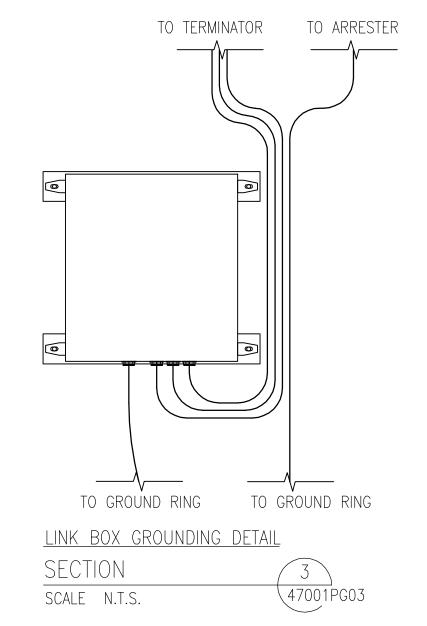


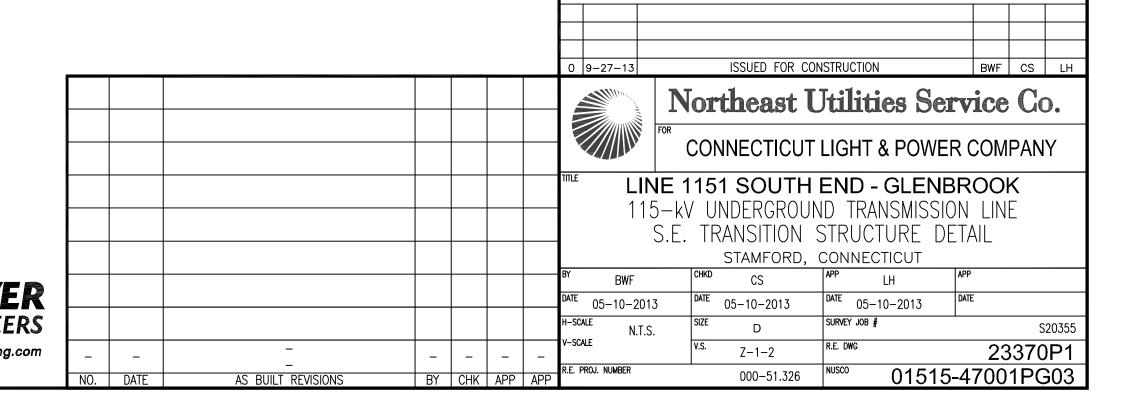


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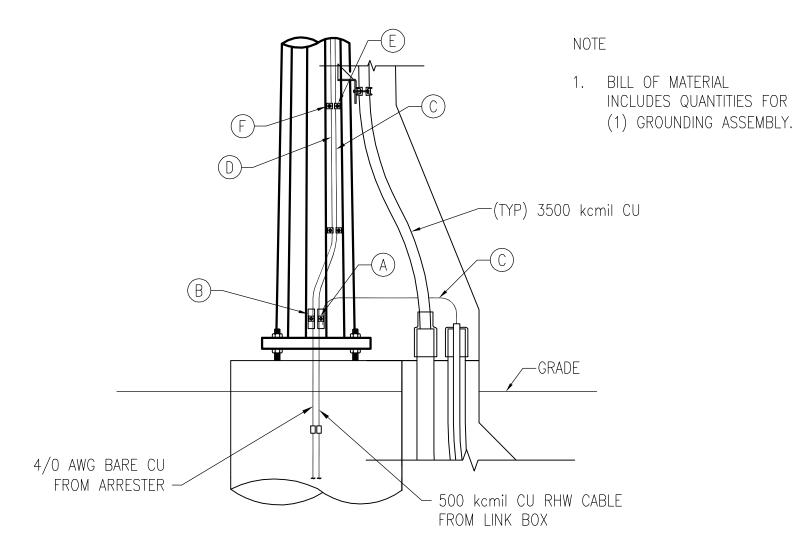


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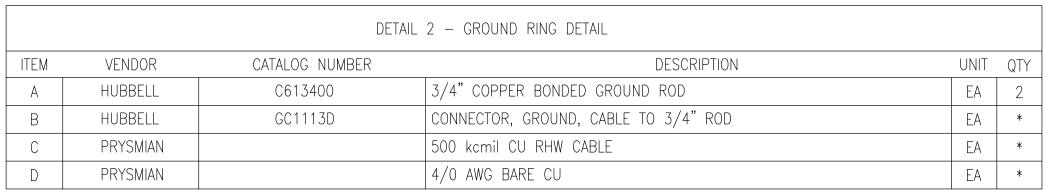
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DETAIL 1 — GROUNDING DETAIL										
VENDOR	CATALOG NUMBER	DESCRIPTION	UNIT	QTY						
BURNDY	GB2929	GROUND CONNECTOR FOR 2 PARALLEL 500 kcmil CABLES	EA	1						
BURNDY	GC2929	GROUND CONNECTOR FOR 2 PARALLEL 4/0 CABLES	EA	1						
PRYSMIAN		500 kcmil CU RHW CABLE	FT	*						
PRYSMIAN		4/0 AWG BARE CU	FT	*						
BURNDY	GC34	500 kcmil GROUND CABLE CLAMP	EA	*						
BURNDY	GC29	4/0 AWG GROUND CABLE CLAMP	EA	*						
	BURNDY BURNDY PRYSMIAN PRYSMIAN BURNDY	VENDOR CATALOG NUMBER BURNDY GB2929 BURNDY GC2929 PRYSMIAN PRYSMIAN BURNDY GC34	VENDOR CATALOG NUMBER DESCRIPTION BURNDY GB2929 GROUND CONNECTOR FOR 2 PARALLEL 500 kcmil CABLES BURNDY GC2929 GROUND CONNECTOR FOR 2 PARALLEL 4/0 CABLES PRYSMIAN 500 kcmil CU RHW CABLE PRYSMIAN 4/0 AWG BARE CU BURNDY GC34 500 kcmil GROUND CABLE CLAMP	VENDORCATALOG NUMBERDESCRIPTIONUNITBURNDYGB2929GROUND CONNECTOR FOR 2 PARALLEL 500 kcmil CABLESEABURNDYGC2929GROUND CONNECTOR FOR 2 PARALLEL 4/0 CABLESEAPRYSMIAN500 kcmil CU RHW CABLEFTPRYSMIAN4/0 AWG BARE CUFTBURNDYGC34500 kcmil GROUND CABLE CLAMPEA						

* DENOTES QUANTITY AS NEEDED



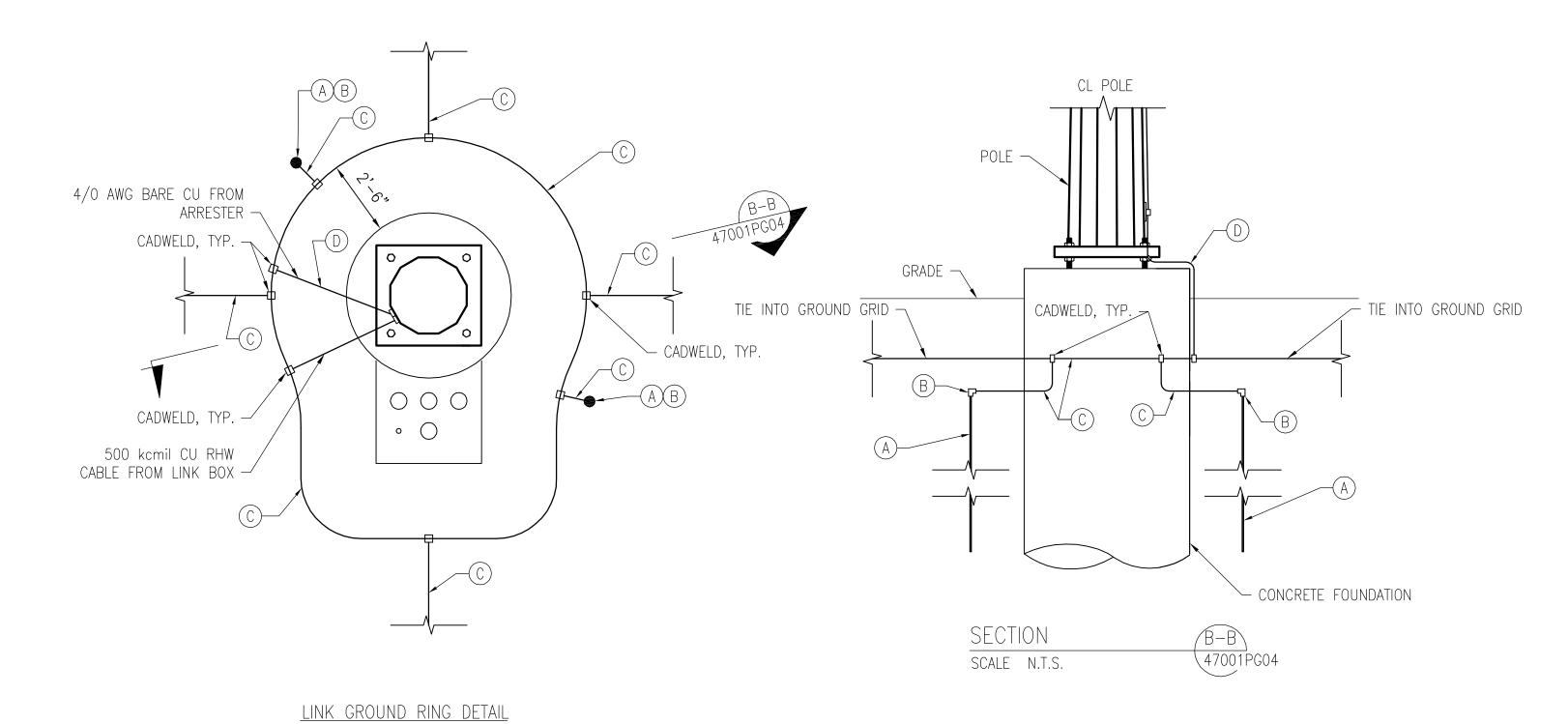




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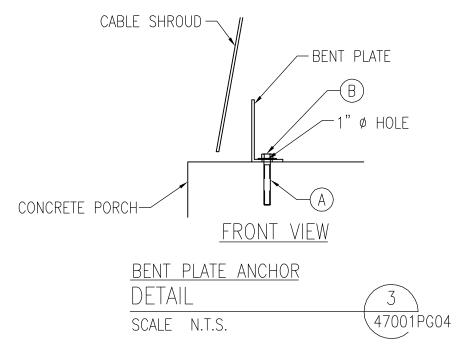
DETAIL

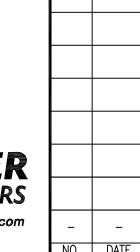
SCALE N.T.S.



	DETAIL 3 — BENT PLATE ANCHOR									
ITEM	VENDOR	CATALOG NUMBER	DESCRIPTION	UNIT	QTY					
А	HILTI	HLC-HX 3/4 X 4 1/4	MECHANICAL CONCRETE ANCHOR 5/8" HEX	EA	*					
В	FASTENAL	33185	FLAT WASHER 5/8" ID 1.75" OD GALV.	EA	*					

* DENOTES QUANTITY AS NEEDED

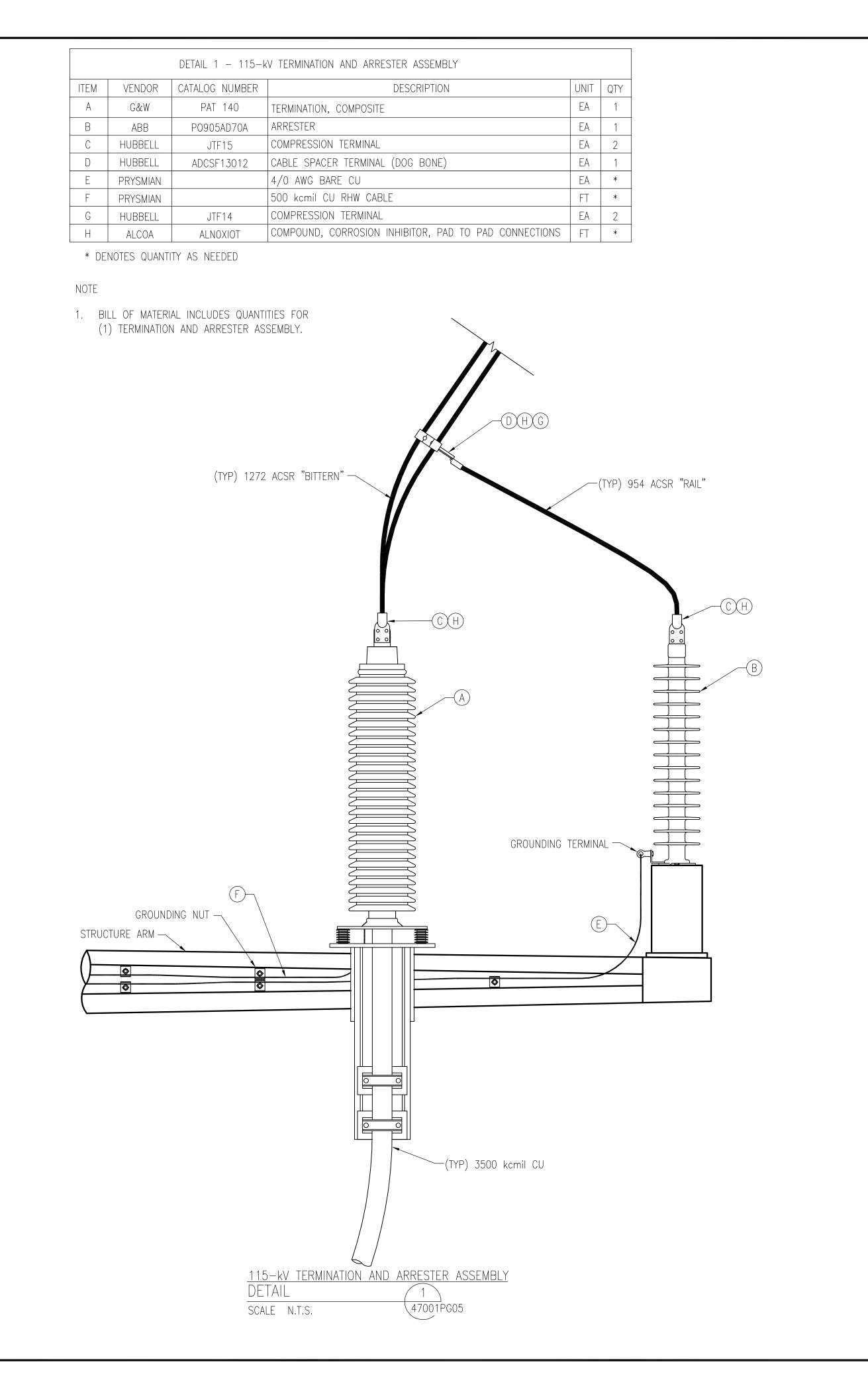


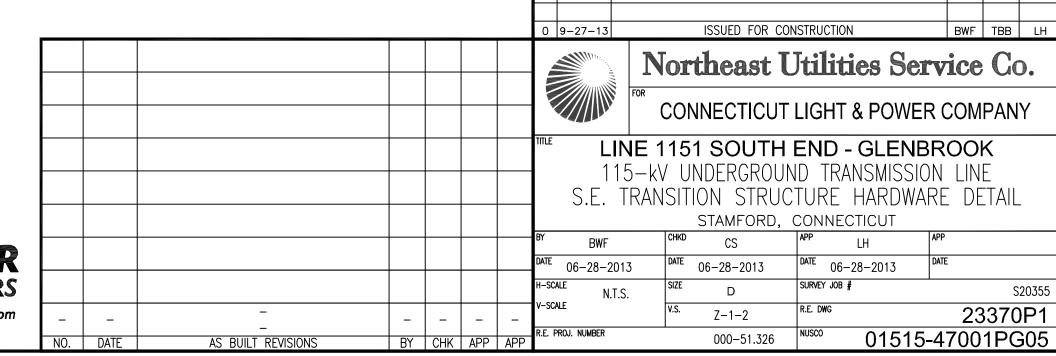


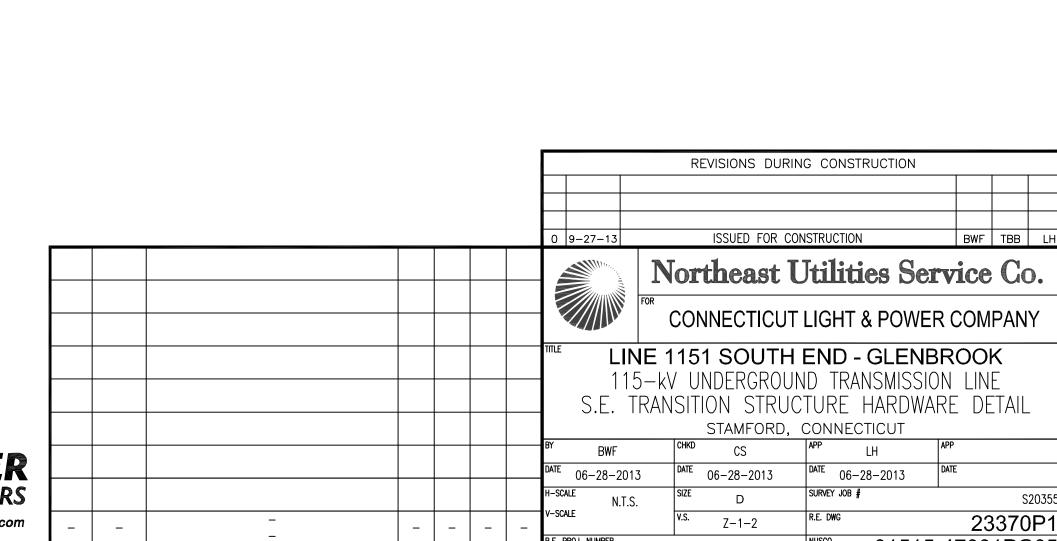
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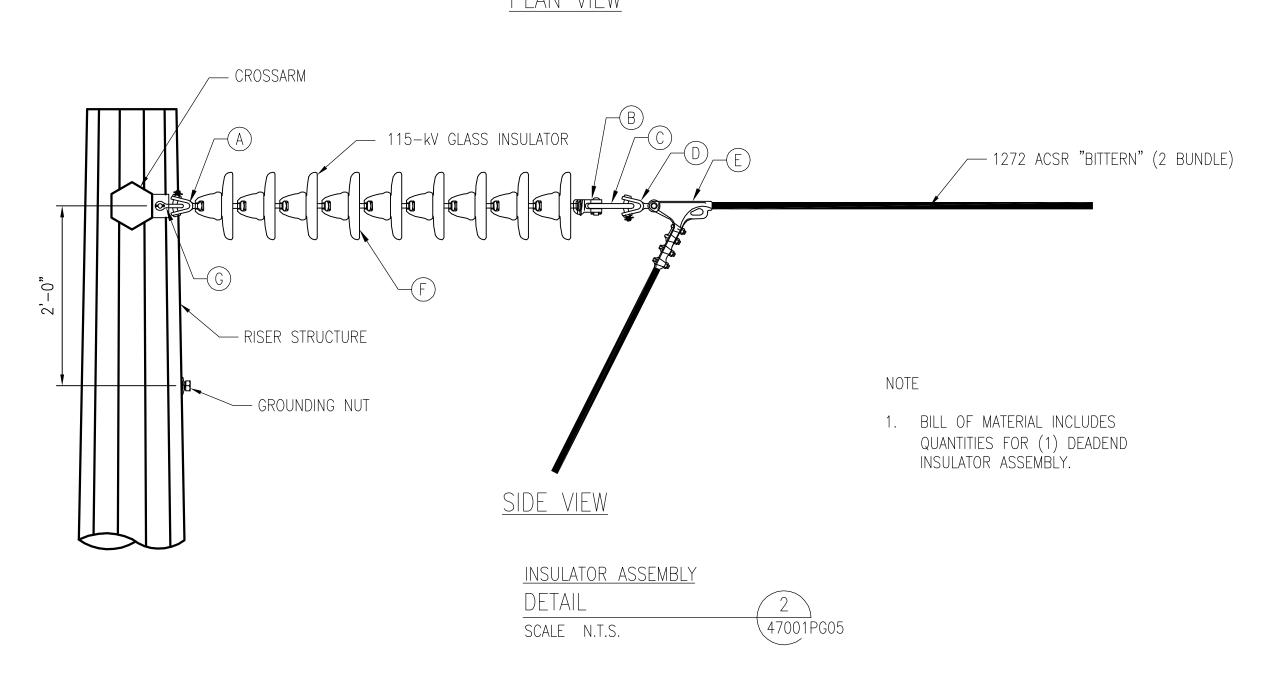
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REVISIONS DURING CONSTRUCTION









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	G	HUBBELL	AS25LBNK	ANCHOR SHACKLE		EA	1
GROUNDING CROSSARM G			115-kV GLASS INSI C B	D E	1272	ACSR "BITT	ERN" (2 BUNDL

	DETAIL 2 - INSULATOR ASSEMBLY											
ITEM	VENDOR	CATALOG NUMBER	DESCRIPTION	UNIT	QTY							
А	HUBBELL	YBC 30	BALL-Y CLEVIS	EA	1							
В	HUBBELL	SC301	SOCKET CLEVIS	EA	1							
С	HUBBELL	YPD3018437-3	YOKE PLATE STRAIN TRI 18" 30 KIP	EA	1							
D	HUBBELL	YCS1059013	Y-CLEVIS, EYE 90 DEG.	EA	2							
E	HUBBELL	SD130N	DEAD END BOLTED QUADRANT STRAIN CLAMP	EA	2							
F	SEDIVER	N14/146	INSULATOR, GLASS, 10", 30,000LB	EA	9							

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AS BUILT REVISIONS

BY CHK APP API

STEEL POLE CAISSON FOUNDATION SCHEDULE

STRUCTURE TYPE	PIER DIA.	PIER DEPTH		RTICAL DRCEMENT		ONTAL RCEMENT	CONSTRUCTION	ON STAKING
IIFL	"B"	"_"		I	TALITY OF	(OLINEITI	CENTER OF FOUNDATION	
	(FT)	(FT)	BAR#	NO./PIER	TIE #	NO./PIER	EASTING (FT)	NORTHING (FT)
115-kV RISER TRANSITION STRUCTURE	5'	20'	10	12	4	26	782640.298	579122.413

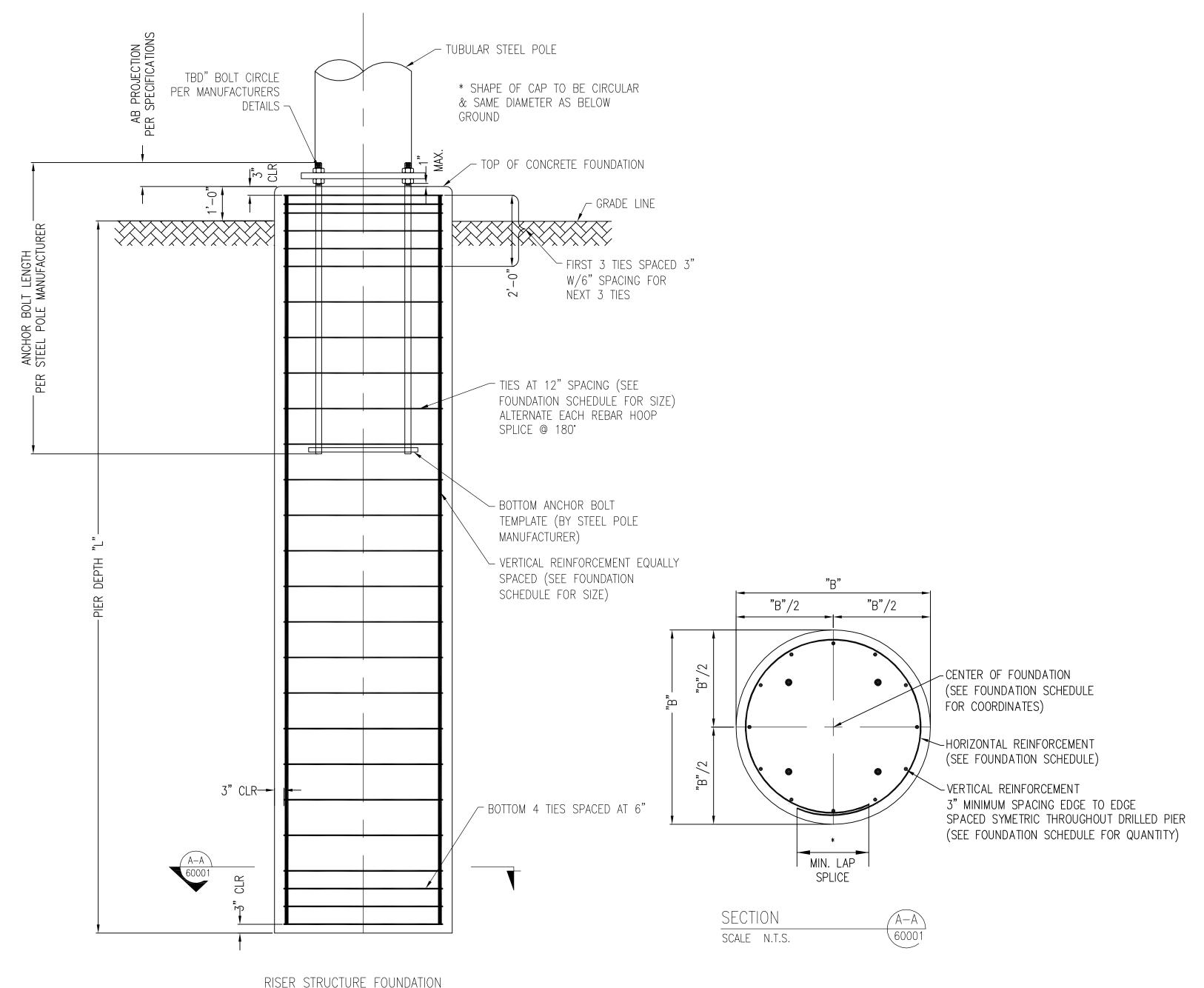
NOTE:

FOUNDATION DIMENSIONS AND REINFORCING SCHEDULE IS AN ESTIMATE. FOUNDATION DESIGN ON HOLD PENDING GROUND LINE REACTIONS WHICH ARE TO BE PROVIDED BY STEEL POLE MANUFACTURER.

DETAIL

SCALE N.T.S.

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<u>NOTES</u>

- 1. ALL ABOVE GRADE FOUNDATION EDGES SHALL HAVE A 3/4" CHAMFER.
- 2. ALL ABOVE GRADE FOUNDATION SURFACES SHALL BE STEEL TROWEL FINISHED AND SLOPED 1/2" CENTER TO EDGE TO SHED WATER.
- 3. CONCRETE SHALL HAVE A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 5000PSI.
- 4. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A6 15 GRADE 60. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND THIS DRAWING.
- 5. ANCHOR BOLT CAGES TO BE SUPPLIED BY POLE SUPPLIER. ALL OTHER MATERIALS SHALL BE CONTRACTOR FURNISHED AS REQUIRED BY THE SPECS.
- 6. CONCRETE SHALL BE VIBRATED IN LAYERS OF 12 -18 INCHES TO PROVIDE A DENSE MASS FREE OF VOIDS.
- 7. FOUNDATION SHALL BE POURED MONOLITHICALLY WITH NO MORE THAN 45 MINUTES BETWEEN END OF ONE POUR AND START OF NEXT. A POUR SHALL NOT BE STOPPED ONCE IT IS STARTED.
- 8. REINFORCEMENT SHOWN IS THE MIN. STEEL REQUIRED FOR STRENGTH. THE CONTRACTOR SHALL SUPPLY & INSTALL ANY ADDITIONAL STEEL REQUIRED FOR SAFE & PROPER INSTALLATION & HANDLING.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING & INSTALLING ALL FORM WORK, CONCRETE REINFORCING STEEL AND CASING AS REQUIRED FOR PIERS.
- 10. FOR ALL DRILLED PIERS, THE CONTRACTOR SHALL REMOVE & DISPOSE, FROM THE RIGHT OF WAY, ALL EXCAVATED MATERIAL INCLUDING THE DRILLER'S MUD. IN NO CASE SHALL THIS MATERIAL BE PERMANENTLY DEPOSITED ON THE RIGHT OF WAY.
- 11. CONTRACTOR IS REQUIRED TO REVIEW THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SITE CONDITIONS AND CONSTRUCTION CONSIDERATIONS.
- 12. ALL LOOSE OR DISTURBED SOIL AND MATERIAL MUST BE REMOVED FROM THE DRILL PIER EXCAVATION PRIOR TO PLACING REINFORCING STEEL OR CONCRETE.
- 13. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS AND COMPLETED FOUNDATION TO AVOID SURFACE WATER FROM PONDING. CONCRETE SHALL BE POURED WITHIN 24 HOURS AFTER COMPLETING AN EXCAVATION FOR AN INDIVIDUAL FOUNDATION.
- 14. THE BOTTOM OF ALL EXCAVATIONS SHALL BE FREE OF STANDING WATER, DEBRIS AND OTHER UNSUITABLE MATERIAL PRIOR TO PLACING CONCRETE. IF WATER CANNOT BE REMOVED, CONTRACTOR SHALL OBTAIN ENGINEERING APPROVAL TO PLACE CONCRETE BY TREMIE METHODS.
- 15. DRILLED PIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 336.3R-93 AND THIS DRAWING.
- 16. FOUNDATION LOCATIONS AS PER STAKING COORDINATES IN FOUNDATION SCHEDULE.
- 17. CONCRETE MATERIALS, MIXING, DELIVERY AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 AND THIS DRAWING.
- 18. CONCRETE: READY MIX CONCRETE SHALL CONFORM TO ASTM C-94. AIR ENTRAINING ADMIXTURE SHALL BE ADDED PER ASTM C-260. NO CALCIUM CHLORIDE SOLUTION SHALL BE ADDED TO CONCRETE MIX.
- 19. CEMENT: PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, LATEST VERSION.
- 20. ADMIXTURES: ADMIXTURES SHALL CONTAIN NO CHLORIDES, FLUORIDES OR NITRATES AND SHALL BE FORMULATED BY THE MANUFACTURER FOR THE JOB AREA AND WEATHER CONDITIONS TO CONTROL SETTING TIME. WATER REDUCING AND RETARDING ADMIXTURES, IF APPROVED BY THE ENGINEER OR CONSTRUCTION COORDINATOR, SHALL CONFORM TO ASTM C - 494.
- 21. THE ADDITION OF WATER AT THE SITES SHALL BE IN ACCORDANCE WITH ASTM C-94.
- 22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAR ALL POSSIBLE UNDERGROUND CONFLICTS PRIOR TO COMMENCING EXCAVATION ACTIVITIES.
- 23. A MINIMUM OF THE TOP EIGHT FEET OF THE FOUNDATION SHALL BE CASED TO PREVENT OVER POUR. THE CASING SHALL BE REMOVED AS CONCRETE IS PLACED IN THE EXCAVATION. CONCRETE SHALL BE PLACED SUCH THAT AT LEAST ONE FOOT OF CONCRETE IS ABOVE THE BOTTOM OF THE CASING AS THE CASING IS EXTRACTED FROM THE GROUND.
- 24. FOUNDATION DESIGN BASED ON THE GROUND LINE REACTIONS PROVIDED BY STEEL MANUFACTURER.

- 25. ANCHOR BOLT DESIGN AND TEMPLATE SHALL BE PROVIDED BY STEEL POLE MANUFACTURER.
- 26. SPECIAL INSPECTIONS SHALL COMPLY WITH CBC 2010 CHAPTER 17 SECTION 1704 AND OTHER INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. OWNER SHALL RETAIN PROFESSIONAL TESTING AND INSPECTION FIRMS FOR THE FOLLOWING SPECIAL INSPECTIONS;

VERIFICATION AND INSPECTIONS	INSPECTION TYPE
INSPECTION OF REINFORCING STEEL AND PLACEMENT.	Р
WELDING OF SHEAR REINFORCING STEEL.	С
WELDING OF OTHER REINFORCING STEEL.	Р
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	Р
VERIFYING USE OF REQUIRED DESIGN MIX.	Р
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	C
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	С
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Р
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Р
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Р
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Р
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	Р
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	C
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Р
OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	C
VERIFY DRILLED PILES WILL BE CONFINED BY MEANS OF COMPETENT ROCK, HARD COHESIVE SOILS, OR VERY DENSE GRANULAR SOILS PER CBC 1810.3.13 AND AS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.	C
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	C

(P) = PERIODIC SPECIAL INSPECTIONADDITIONALLY, CONTRACTOR SHALL SUBMIT TO OWNER CERTIFIED MILL TEST REPORTS FOR DEFORMED CONCRETE REINFORCING STEEL TO ASSURE COMPLIANCE WITH ACI 318 SECTION

REVISIONS DURING CONSTRUCTION

ISSUED FOR CONSTRUCTION 9-27-13 BWF CS L Northeast Utilities Service Co. CONNECTICUT LIGHT & POWER COMPANY LINE 1151 SOUTH END - GLENBROOK 115-kV UNDERGROUND TRANSMISSION LINE S.E. TRANSITION STRUCTURE FOUNDATION STAMFORD, CONNECTICUT CS LH 05-10-2013 05-10-2013 05-10-2013 S20355 N.T.S. 23370P1 Z-1-201515-60001 000-51.326 AS BUILT REVISIONS BY CHK APP API

(C) = CONTINUOUS SPECIAL INSPECTION

21.1.5.2.

