GENERAL INFORMATION

APPLICANT/PREPARED FOR UNITIL ENERGY SYSTEMS INC. 6 LIBERTY LANE WEST

HAMPTON, NH 03842

RESOURCE LIST PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT 41 GREEN STREET, 3RD FLOOR CONCORD, NH 03301 603-225-8515 CONTACT: CARLOS BAIA (DEPUTY CITY MANAGER -DEVELOPMENT) & HEATHER SHANK (CITY PLANNER)

ZONING DEPARTMENT 37 GREEN STREET CONCORD, NH 03301 603-225-8580 CRAIG WALKER (ZONING ADMINISTRATOR)

CODE ADMINISTRATION 37 GREEN STREET CONCORD, NH 03301 603-225-8580 CONTACT: DAVID HALL (CODE ADMINISTRATOR)

CITY MANAGER 41 GREEN STREET CONCORD, NH 03301 603-225-8570 CONTACT: THOMAS J. ASPELL JR. (CITY MANAGER)

GENERAL SERVICES (PUBLIC WORKS) 311 NORTH STREET CONCORD, NH 03301 603-228-2737 CONTACT: CHIP CHESLEY (DIRECTOR)

POLICE DEPARTMENT 35 GREEN STREET CONCORD, NH 03301 603-225-8600 CONTACT: BRADLEY C. OSGOOD (CHIEF OF POLICE)

FIRE DEPARTMENT 41 GREEN STREET CONCORD, NH 03301 603-225-8570 CONTACT: GUY NEWBERY (INTERIM FIRE CHIEF)

ABUTTERS 0534P-3 77 MERRIMACK STREET LLC & SOUTH UNION REALTY TRUST 1 WALL ST HUDSON, NH 03051-3983

0534P-16 PAUL A. & RUTH L. SPEED & KATHY WEINSTEIN 76 MERRIMACK ST PENACOOK, NH 03303-1442

0534P-15 JAY G. & KATHY L. WEINSTEIN 6 ROLFE ST PENACOOK, NH 03303-1704

0534P-11 DOUGLAS & ELIZABETH R. SMITH 24 ROLFE ST PENACOOK, NH 03303-1704

0534P-14 AUDREY E. CLAIRMONT & DREW D. STOCK 14 ROLFE ST PENACOOK, NH 03303-1704

0534P-57 JOSEPH K. & KAROLEE A. BOULTON 223 WES LOCKE RD. BARNSTEAD, NH 03218-3765

0534P-17 WENDY A. FOLLANSBEE 72 MERRIMACK ST PENACOOK, NH 03303-1442

0534P-23 PERRY O. & TRACY ML. MAIER 56 SUMMER ST PENACOOK, NH 03303-1462

0534P-24 DAVID C. & BRENDA L. LIBBY 58 SUMMER ST PENACOOK, NH 03303-1462

1421P-2 WAYNE N. & DIANNE L. DIGERONIMO 34 CROSS ST PENACOOK, NH 03303-1632

142P-3 CAROL R. FOSS & HAROLD P. NEVERS 26 PENACOOK ST PENACOOK, NH 03303-1707

142P-2 CITY OF CONCORD PART OF ROLFE PARK 41 GREEN ST CONCORD, NH 03301-4255

053P-10, 13P-6, 13P-7 ROBERT D. & SHERRI A. MORRILL TRUST ROBERT D. & SHERRI A. MORRILL TRUSTEES 278 N MAIN ST CONCORD, NH 03301-5053

053P-15 RODNEY E. & TRACI L. KNIERIEMEN 46 ROLFE ST PENACOOK, NH 03303-1704

0534P-19 RANDY C. JR & GRAZIELLA C. ARRANT 55 SUMMER ST PENACOOK, NH 03303-1466

142P-10 PETER C. GOODWIN 9825 PASSAIC DR HUDSON, FL 34667-3439

143P-41, 143P-45 MERRIMACK VALLEY SCHOOL DIST 105 COMMUNITY DR PENACOOK, NH 03303-1617

13P-12 JONATHAN EDWARDS RASMUSSEN PO BOX 6061 PENACOOK, NH 03303-6061

13P-2 TYLER J. & COURTNEY S. MORTON 60 PENACOOK ST PENACOOK, NH 03303-1705

13P-1 PAUL D. JR & DEBORAH A. VEZINA 98 PENACOOK ST PENACOOK, NH 03303-1705

13P-13 JODY T. BERRY REVOCABLE TRUST JODY T. BERRY TRUSTEE 99 PENACOOK ST PENACOOK, NH 03303-1706

192P-101 UNITIL ENERGY SYSTEMS INC 6 LIBERTY LANE WEST HAMPTON, NH 03842-1704

APPROVED UNDER THE PROVISIONS OF R.S.A. 674:35 & R.S.A. 674:36 CITY PLANNING BOARD

CITY OF CONCORD, NEW HAMPSHIRE in accordance with vote of the board dated:

Approval of this plan is limited to the lots as shown

Clerk

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Chair

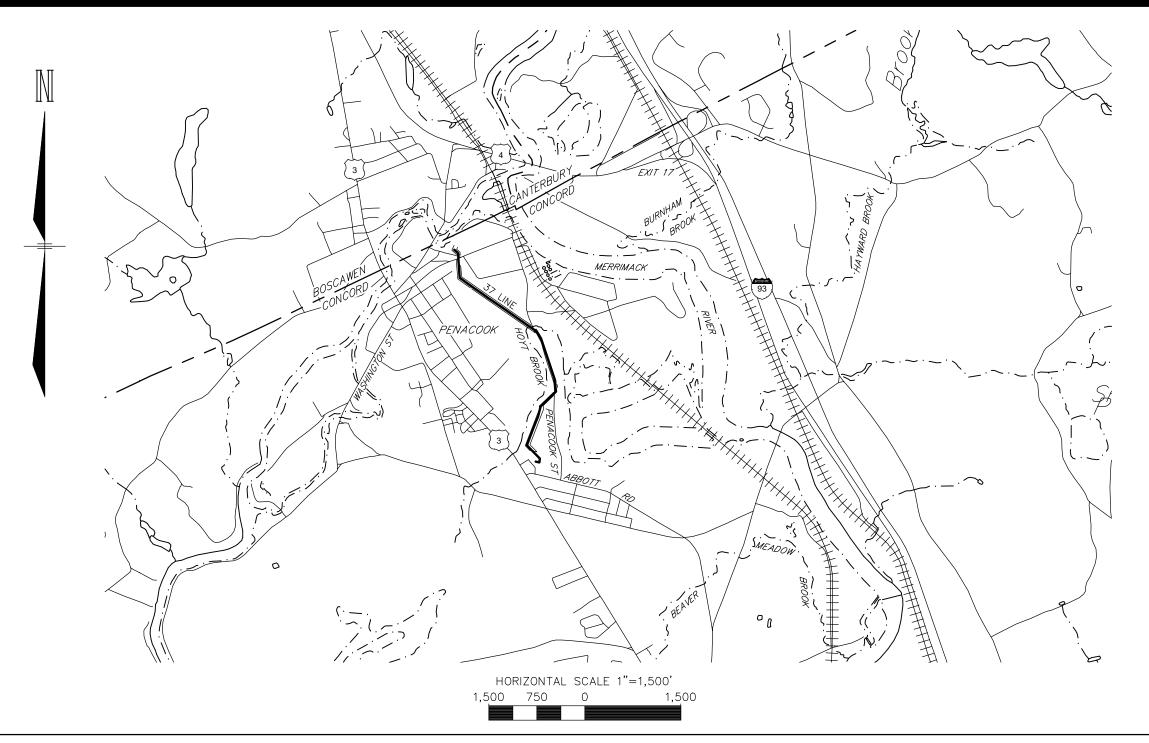
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This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.

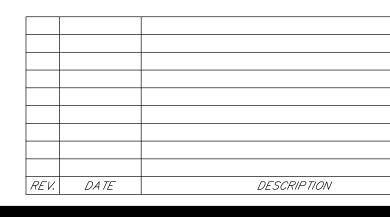
37 LINE REBUILD

PENACOOK **CONCORD, NEW HAMPSHIRE**

VICINITY PLAN







INDEX OF SHEETS

SHEET

SHEET TITLE

C-01 C-02 EX-01 EX-02 TO EX-05 C-03 C-04 TO C-05 C-06

COVER SHEET NOTES & LEGEND OVERALL EXISTING CONDITIONS PLAN EXISTING CONDITIONS PLAN OVERALL WETLAND IMPACT PLAN WETLAND IMPACT PLAN DETAILS

PERMITS/APPROVALS

NUMBER APPROVED EXPIRES

CITY OF CONCORD CUP -WETLAND BUFFER CITY OF CONCORD CUP -SHORELAND BUFFER NHDES WETLANDS PERMIT – SPN



WETLAND IMPACT PLANS

UTILITY RIGHT-OF-WAY (ROW)

COVER SHEET UNITIL 37 LINE REBUILD CONCORD, NEW HAMPSHIRE

PREPARED FOR UNITIL ENERGY SYSTEMS, INC.

> **6 LIBERTY LANE WEST** HAMPTON, NH

SCALE: AS NOTED

NOVEMBER 18, 2020

48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

DR CK



Structural Engineers Traffic Engineers Land Surveyors _andscape Architects icientists

95991-00 DETAILS

C - 01

EXISTING CONCRETE BOUND STONE BOUND IRON PIPE IRON PIN DRILL HOLE NAIL OR RAILROAD SPIKE BITUMINOUS CONCRETE CURB VERTICAL GRANITE CURB CONCRETE CURB EDGE OF PAVEMENT EDGE OF GRAVEL SINGLE BROKEN WHITE LINE SINGLE SOLID WHITE LINE DOUBLE SOLID YELLOW LINE SINGLE SOLID YELLOW LINE SINGLE BROKEN YELLOW LINE RETAINING WALL BARBED WIRE FENCE CHAIN LINK FENCE STOCKADE FENCE SIGN MAILBOX PAINTED ARROW GAS VALVE LIGHT POLE HYDRANT WATER MANHOLE ELECTRIC MANHOLE TELEPHONE MANHOLE GUY ANCHOR ELECTRIC METER PULL BOX SEWER MANHOLE DRAIN MANHOLE CATCH BASIN TRANSFORMER PAD WATER GATE UTILITY POLE WELL MONITORING WELL SPOT GRADE INDEX CONTOUR INTERMEDIATE CONTOUR EDGE OF WETLAND BROOK, STREAM OR RIVER STONEWALL EDGE OF WATER TREELINE TREES RIP-RAP SEWER LINE WATER LINE DRAIN LINE GAS LINE

OVERHEAD UTILITIES

UNDERGROUND UTILITIES

BOLLARD

WATER SHUTOFF

🖸 CBF 🖸 SBF O IPF ◎ IPinF or IRF • DHF $\triangle PK \text{ or } RRS$ SBLW _____SSL W DSL Y SSL Y SBL Y _____ X _____ $\square MB$ $\times 200.5$ ---- 202 $\frac{\Psi r}{\underline{\Psi r}} = \underbrace{\underbrace{W r}}_{\underline{A} \underline{U}} \underbrace{W r}_{\underline{A} \underline{U}} \underbrace{W r}} \underbrace{W r}_{\underline{A} \underline{U}} \underbrace{W r}_{\underline{A} \underline{U}} \underbrace{W r}} \underbrace{W r}_{\underline{A} \underline{W} \underbrace{W r}} \underbrace{W r} \underbrace{W$ _____ · · · ____ · 000000000 · AR . _____ W-____ _____ *D* _____ — — — *OHW* — — — G 1/50

LEGEND PROPOSED

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TEMPORARY ACCESS ROUTE OVERHEAD UTILITY LINE UTILITY POLE GUY POLE PERMANENT WETLAND IMPACTS TEMPORARY WETLAND IMPACTS WETLAND BUFFER IMPACTS

SHORELAND BUFFER IMPACTS SILT SOCK

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GENERAL NOTES

- 1. THE CONTRACTOR SHALL INSTALL PRE-FABRICATED MATS ALONG THE PROPOSED ACCESS ROUTE. CONSTRUCTION VEHICLES SHALL USE THE PROPOSED MAT ACCESS ROUTE UNLESS OTHERWISE DIRECTED. ACCESS ROUTE IS PICTORIAL ONLY AND NOT INTENDED TO BE A CONSTRUCTED DRIVE.
- 2. AREAS IMPACTED BY MATS SHALL BE STABILIZED IN ACCORDANCE WITH THE PROJECT EROSION CONTROL NOTES, SEE DETAILS FOR ADDITIONAL MAT INFORMATION.
- 3. CONTRACTOR SHALL PROVIDE STREET SWEEPER OR OTHER MEANS TO KEEP ROADWAYS AND PARKING AREAS CLEAR OF CONSTRUCTION RELATED DEBRIS OR SEDIMENT AT ALL TIMES.
- 4. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS AND STANDARDS.
- 5. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- 8. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL
- 9. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.
- 10. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE RESPECTIVE CITY OF CONCORD AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (800-344-7233) AT LEAST 72 HOURS BEFORE DIGGING.
- 12. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES NECESSARY TO CONTROL EROSION THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES/EPA STANDARDS. THE DETAILS PROVIDED REPRESENT MINIMUM PERMITTED CONTROLS ONLY AND SHALL BE SUPPLEMENTED BY THE CONTRACTOR AS NECESSARY.
- 14. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE CONDITIONS AT THE SITE. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ENGINEER.
- 16. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 17. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- 18. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 19. TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- 20. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.

EROSION CONTROL NOTES

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:
- 1. EROSION CONTROLS INDICATED ON THESE PLANS SHALL BE CONSIDERED MINIMUM STANDARDS, ADDITIONAL CONTROLS MAY BE REQUIRED TO ENSURE PERMIT COMPLIANCE AND SHALL BE ADDED AS DEEMED NECESSARY BY THE OWNER/ENGINEER.
- 2. INSTALLATION OF EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
- 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
- 4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- 5. HAY MULCH OR JUTE MATTING SHALL BE USED FOR TEMPORARY STABILIZATION IN ADDITION TO WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 6. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.
- 7. SILT SOCK OR SILT FENCE SHALL BE USED FOR CONTAINMENT OF TEMPORARY SOIL STOCK PILES ASSOCIATED WITH POLE INSTALLATION.
- 8. ALL WORK SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMP) AS OUTLINED IN THE NH DEPT. OF NATURAL AND CULTURAL RESOURCES BEST MANAGEMENT PRACTICES MANUAL, UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATERBODIES IN NEW HAMPSHIRE, LATEST EDITION.
- 9. TIMBER MATS SHALL BE REMOVED AT COMPLETION OF WORK AND REMAIN IN PLACE NO LONGER THAN ONE GROWING SEASON.
- 10. ALL WORK SHALL BE DONE IN COMPLIANCE WITH APPLICABLE CONDITIONS IN ENV-WT 307.
- 11. DURING CONSTRUCTION, CONTRACTOR SHALL AVOID OR MINIMIZE CONSTRUCTION ACCESS OVER, OR WORK IN OR UPON ORGANIC SOILS AND IN ACCORDANCE WITH ENV-WT 313.03
- 12. IN ACCORDANCE WITH RSA 430:53 AND AGR 3800, THE CONTRACTOR SHALL NOT TRANSPORT INVASIVE SPECIES OFF THE PROPERTY, AND SHALL DISPOSE OF INVASIVE SPECIES ON-SITE IN A LEGAL MANNER.

STORM WATER MANAGEMENT NOTES

1. <u>STABILIZATION PRACTICES</u> FOR EROSION AND SEDIMENTATION CONTROLS:

TEMPORARY STABILIZATION - TOPSOIL STOCKPILES AND DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE MUST BE STABILIZED BY THE 14TH DAY AFTER THE LAST DISTURBANCE. THE TEMPORARY SEED SHALL BE ANNUAL RYE APPLIED AT THE RATE OF 1.1 LBS PER 1,000 SQUARE FEET. PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 1.5 TONS PER ACRE OF HAY MULCH. MULCH TO BE ANCHORED IN PLACE WHERE NECESSARY. AREAS OF THE SITE THAT WILL BE PAVED WILL TEMPORARILY BE STABILIZED BY APPLYING GEOTEXTILES AND A STONE SUB-BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED. CALCIUM CHLORIDE SHALL BE USED FOR DUST CONTROL IF NEEDED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 3 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL CONSIST OF 0.45 LBS/1,000 S.F. TALL FESCUE, 0.20 LBS/1,000 S.F. CREEPING RED FESCUE, AND 0.20 LBS/1,000 S.F. BIRDSFOOT TREFOIL. PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS PER ACRE IF 10-20-20 FERTILIZER SHALL BE APPLIED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 1.5 TONS PER ACRE OF HAY MULCH. MULCH TO BE ANCHORED IN PLACE WHERE NECESSARY.

- 2. <u>STRUCTURAL PRACTICES</u> FOR EROSION AND SEDIMENTATION CONTROL PRE-FABRICATED MATS - WILL BE INSTALLED ALONG THE PROPOSED ACCESS PATH AS NOTED ON THE PLANS.
- SILT SOCK OR SEDIMENT FENCE WILL BE CONSTRUCTED DOWNSTREAM OF TEMPORARY STOCKPILE AREAS AND WHERE ADDITIONAL SEDIMENT CONTROL IS DEEMED NECESSARY DURING CONSTRUCTION.
- a. THE SILT SOCK SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE INSPECTED FOR GAPS OR TEARS IN THE FABRIC, WHICH SHALL BE REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES ONE THIRD OF THE HEIGHT OF THE SILT SOCK.
- LEAST 8 INCHES OF THE FABRIC BURIED BELOW THE GROUND SURFACE TO PREVENT GAPS FROM FORMING NEAR THE GROUND SURFACE. RUNOFF WILL FLOW THROUGH THE OPENINGS IN THE FILTER FABRIC WHILE RETAINING THE SEDIMENT WITHIN THE CONSTRUCTION AREA.
- 3. ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURE DUMPSTERS OR APPROVED ENCLOSURE AND REMOVED FROM THE SITE ON A WEEKLY BASIS. NO CONSTRUCTION WASTE SHALL BE BURIED ON SITE. PORTABLE TOILET SANITARY WASTE FACILITIES WILL BE PROVIDED DURING CONSTRUCTION AND MAINTAINED/DISPOSED OF ON A REGULAR BASIS IN ACCORDANCE WITH TOWN AND STATE REGULATIONS.

CONSTRUCTION SEQUENCE NOTES

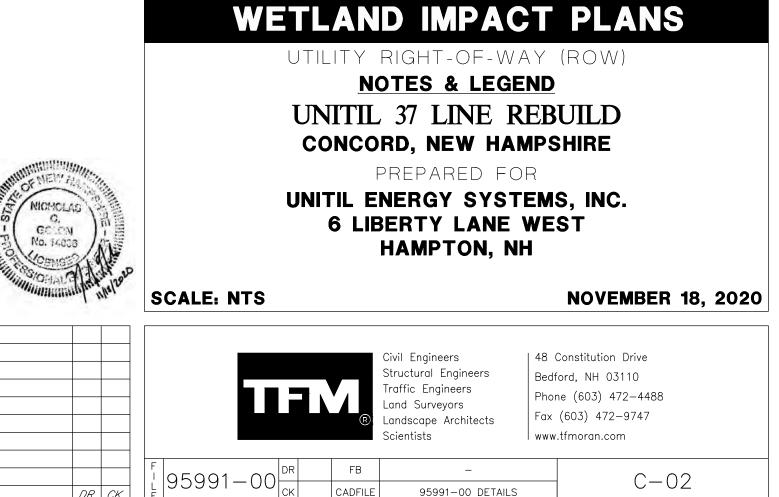
- 1. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES.
- 2. INSTALL PROPOSED POLES AND OVERHEAD SERVICE LINES.
- 3. ALL SLOPES DISTURBED DURING POLE INSTALLATION SHALL BE STABILIZED IMMEDIATELY. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72 HOURS AFTER CONSTRUCTION ACTIVITY CEASES. IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21 DAYS, THE AREA SHALL BE STABILIZED.
- AN AREA SHALL BE CONSIDERED STABILIZED IF: A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED, OR D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 4. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES PERIODICALLY AND IMMEDIATELY AFTER SIGNIFICANT STORM EVENTS.
- 5. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED AND TEMPORARY SOIL STOCKPILES FROM POLE INSTALLATIONS HAVE BEEN APPROPRIATELY DISPOSED OF.
- 6. REMOVE EXISTING UTILITY POLES AND OVERHEAD SERVICE LINES. POLES TO BE FLUSH CUT AND ABANDONED UNLESS DIRECTED OTHERWISE BY OWNER.

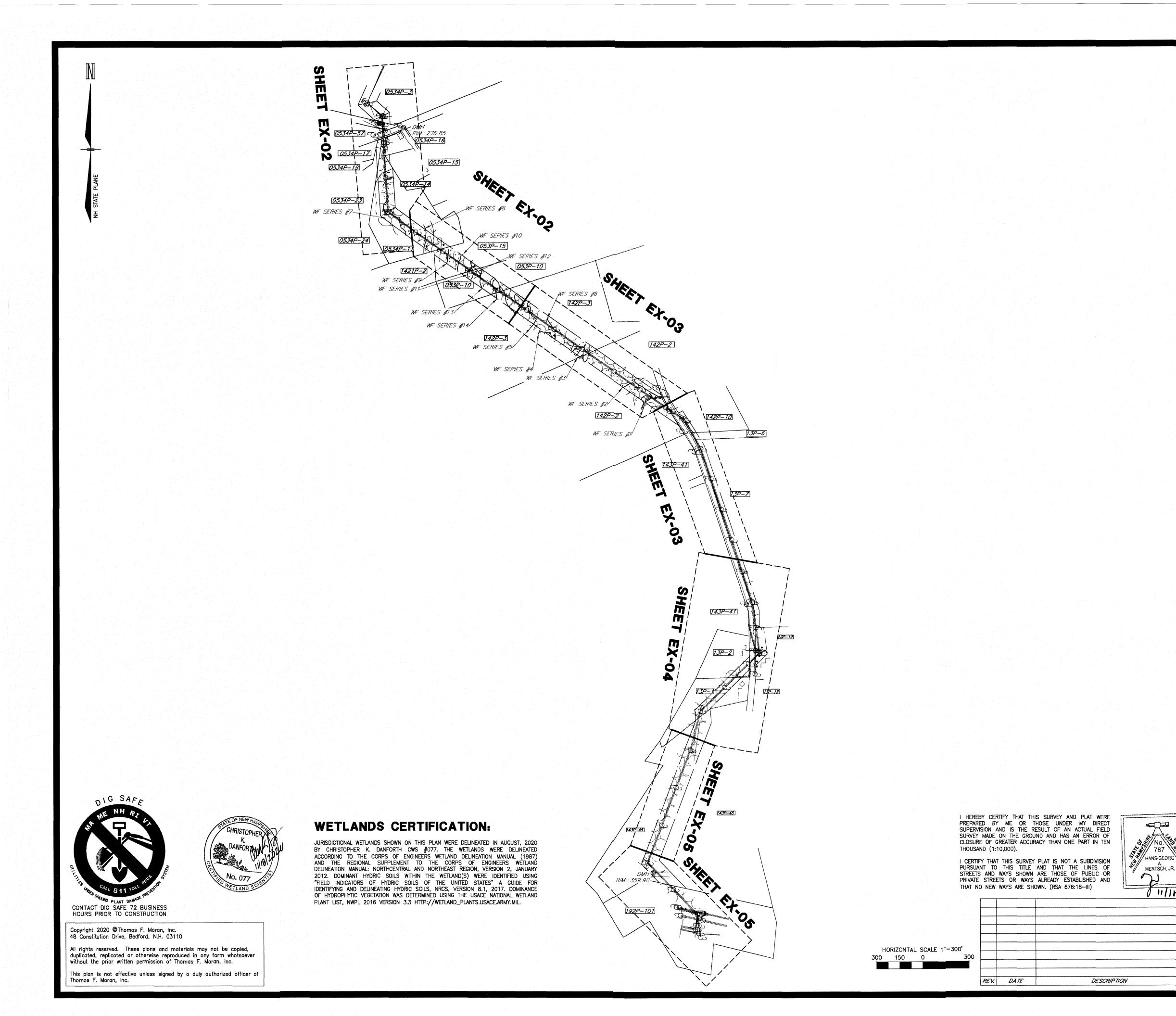
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b. THE SILT FENCE WILL BE INSTALLED BY STRETCHING REINFORCED FILTER FABRIC BETWEEN POSTS WITH AT

DR CK







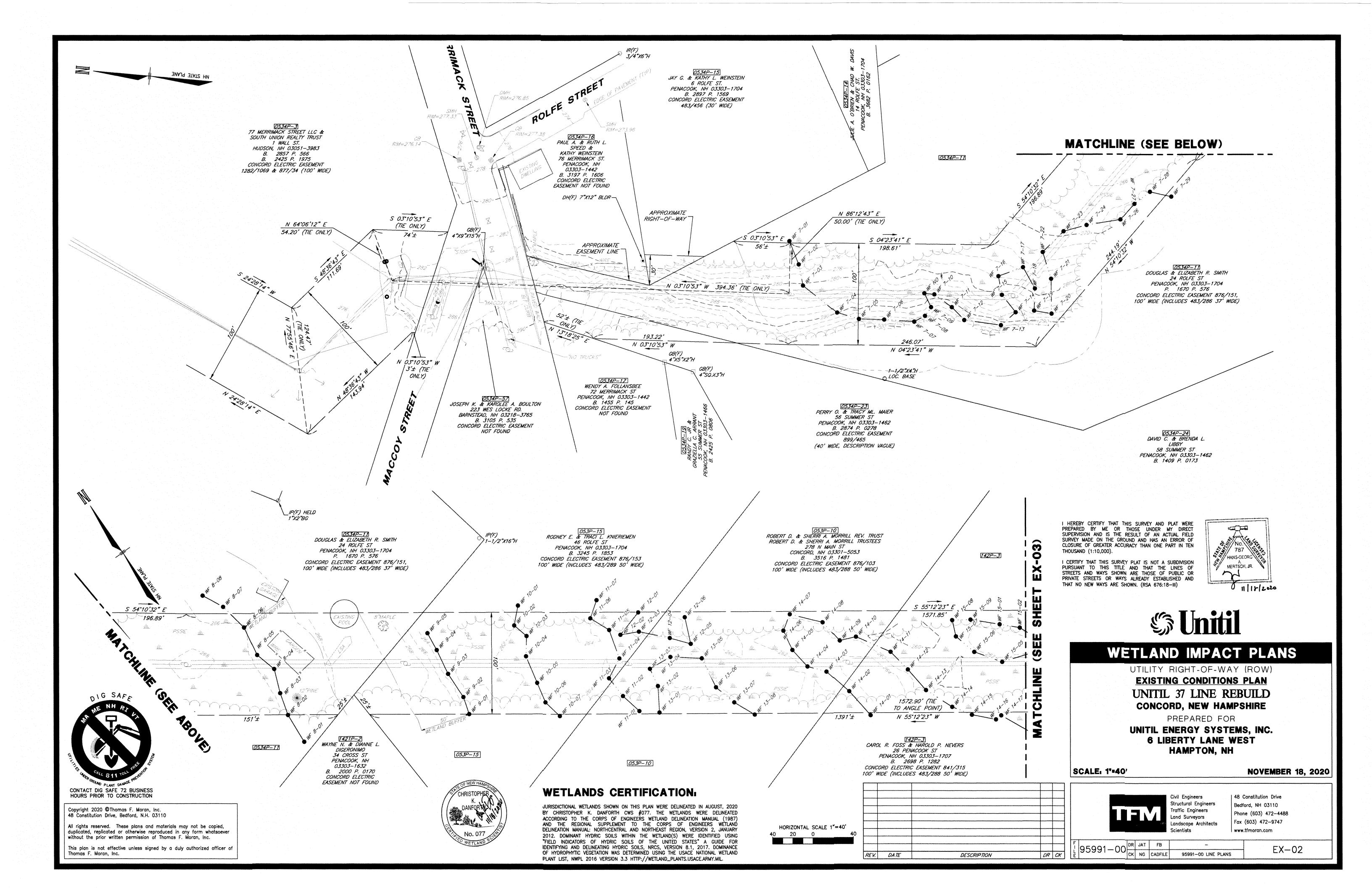
REFERENCE PLANS

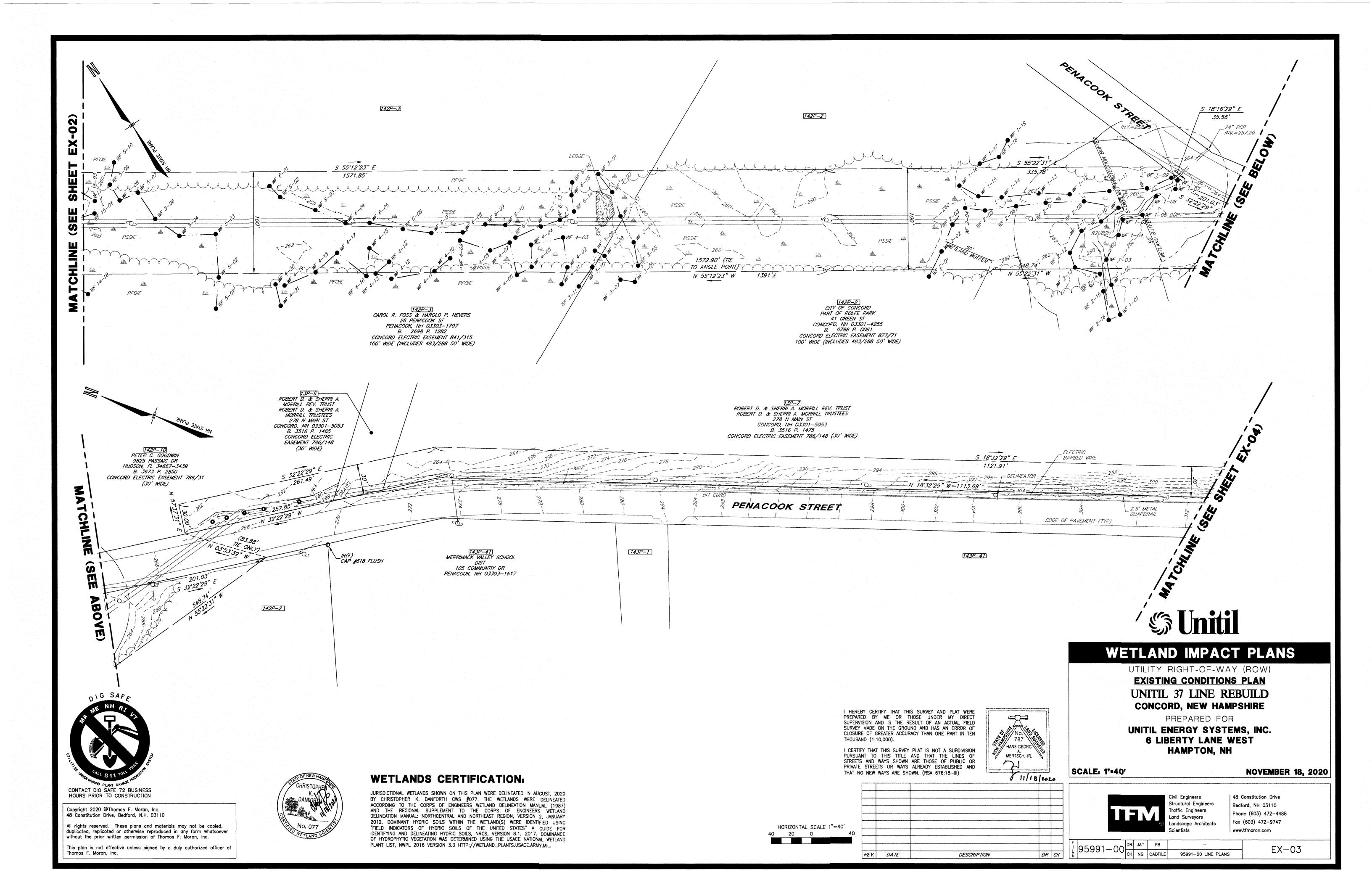
- 1. PLAT OF FIVE EASEMENTS BENEFITING BRIAR HYDRO ASSOCIATES ON LANDS OF 77 MERRIMACK STREET, LLC & THE SOUTH UNION REALTY TRUST PAUL E. KELLEHER, TRUSTEE MAP 0534 PENACOOK LOT 3 IN CONCORD AND MAP183C LOT 45 IN BOSCAWEN OFF MERRIMACK STREET MERRIMACK COUNTY NEW HAMPSHIRE APRIL 22, 2016 BY TODD LAND USE CONSULTANTS M.C.R.D. PLAN # 201600007713.
- 2. SUBDIVISION PLAN MARILYN I RAYMOND TRUST TAX MAP P16 BLOCK 1 LOTS 13 & 14 34 & 38 PENACOOK ST PENACOOK, (CONCORD) NH. JUNE 17, 2004 AND LAST REVISED 3/16/05 BY ERIC C MITCHELL & ASSOC. INC. M.C.R.D. PLAN #17313.
- 3. ALTA/ASCM LAND TITLE SURVEY PREPARED FOR 77 MERRIMACK STREET LLC. 82 MERRIMACK STREET CONCORD, NH. MAP P-5, BLOCK 2, LOTS 10,11 & 16. NOV 9, 2004 AS REVISED BY RICHARD D. BARTLETT & ASSOCIATES, LLC. M.C.R.D. PLAN #17180.
- 4. ALTA/ASCM LAND TITLE SURVEY PREPARED FOR 77 MERRIMACK STREET LLC 77 MERRIMACK STREET CONCORD, N.H. MAP P3, BLOCK 1, LOTS 5, 10, & 12. NOV 9, 2004 BY RICHARD D. BARTLETT & ASSOCIATES, LLC. M.C.R.D. PLAN # 17179.
- 5. LOT LINE ADJUSTMENT SUBDIVISION AND RESUBDIVISION MARILYN I. RAYMOND TRUST TAX MAP P16 BLOCK 1 LOTS 13 &14 34 & 38 PENACOOK STREET PENACOOK, (CONCORD) NH. JUNE 17,2004 AND LAST REVISED 7-29-04 BY ERIC C. MITCHELL & ASSOC. INC. M.C.R.D. PLAN # 17013.
- 6. SURVEY PLAT FOR MERRIMACK VALLEY SCHOOL DISTRICT CITY OF CONCORD (PENACOOK), NEW HAMPSHIRE JUNE 26, 2001 AND REVISED JUNE 2001 BY T&M ASSOCIATES, INC. M.C.R.D. PLAN # 15600.
- 7. SUBDIVISION LAND OF THOMAS W. BERKELEY LOCATED IN PENACOOK, NH APRIL 30,1984 BY RAYMOND G. CUSHMAN LLS. M.C.R.D. PLAN# 7852.
- 8. SUBDIVISION LAND OF CELESTIA A. LORANGER ESTATES IN PENACOOK N.H. OCT. 6, 1978 BY STANLEY H. PRESCOTT, II. M.C.R.D PLAN # 7223.
- 9. BOUNDARY SURVEY FOR CONCORD ELECTRIC CO. SO. MAIN ST., PENACOOK ST, ABBOTT RD. PENACOOK N.H. MARCH 31, 1980 BY RICHARD D BARTLETT R.L.S. M.C.R.D. PLAN # 6191.
- 10. SUBDIVISION PLAN LAND OF MARC A. THEROUX 55 SUMMER ST., PENACOOK, N.H. 12/15/77 BY H.H. AMSDEN & SONS. M.C.R.D PLAN # 5117.
- 11. EASEMENT PLAN FOR MERRIMACK VALLEY SCHOOL DISTRICT CITY OF CONCORD (PENACOOK), NEW HAMPSHIRE DECEMBER 6, 2000 BY T&M ASSOCIATES, INC. (NOT RECORDED)
- 12. ROLFE PARK CONCORD, NH WARD ONE. JUNE 1921 (CITY PLAN)
- 13. ROFE PARK CONCORD, NH OCT. 1920 (CITY PLAN)
- 14. P-13 PENACOOK STREET (CITY PLAN)
- 15. CONCORD ELECTRIC CO. CONCORD N.H. TRANSMISSION R/W PENACOOK TO BREZNER LINE #37 JAN. 19, 1965 REVISED OCT. 1, 91.

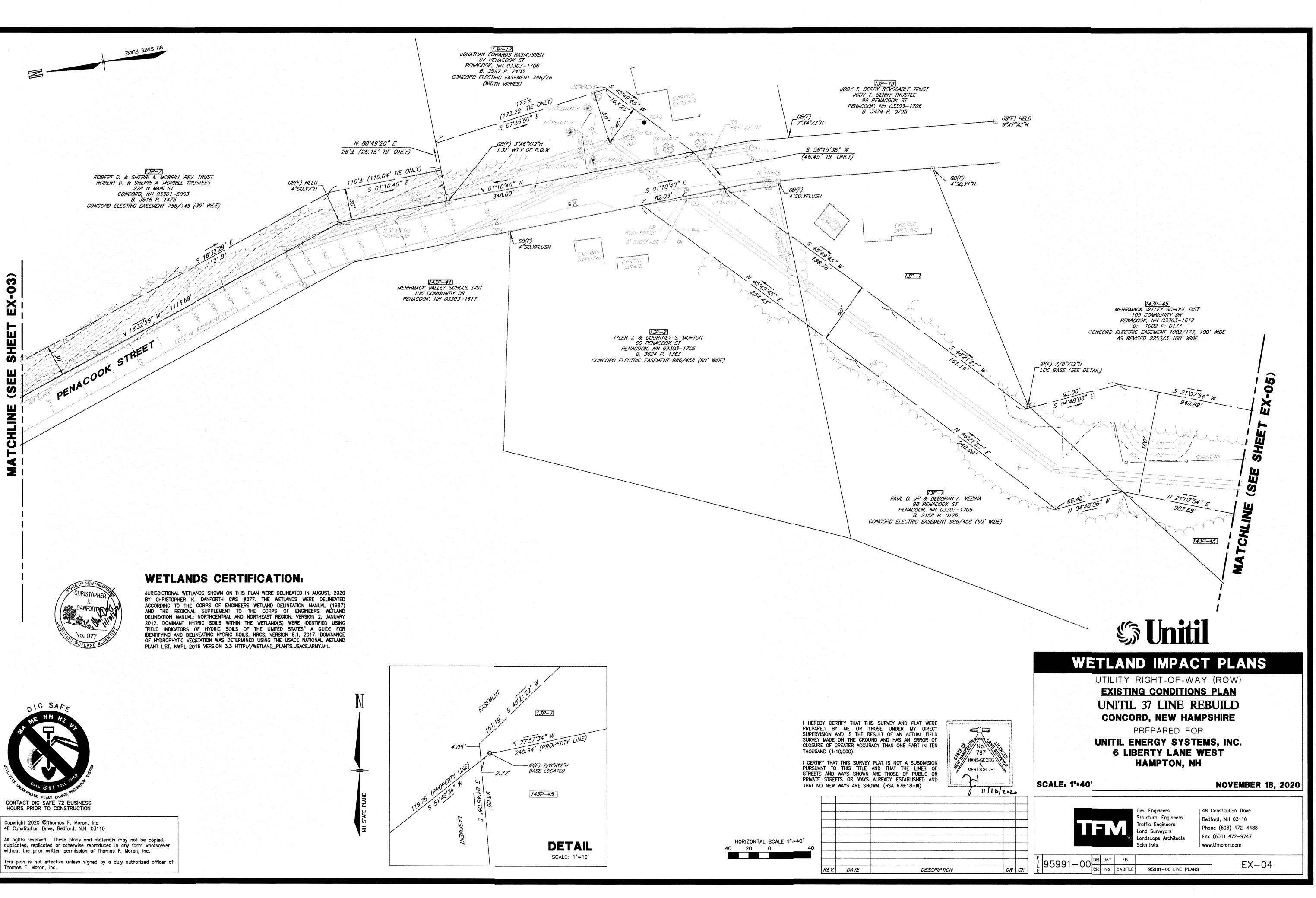
PLAN NOTES

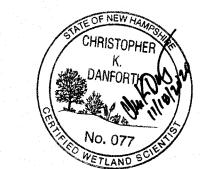
- 1. THE PURPOSE OF THIS PLAN IS TO SHOW THE RESULTS OF A RIGHT-OF-WAY, TOPOGRAPHIC & WETLAND SURVEY OF THE UNITIL 37 LINE CORRIDOR WHICH RUNS FROM THE PENACOOK SUBSTATION TO POLE 34 ON LOT 0534P-3.
- 2. 0534P-3 INDICATES TAX MAP, BLOCK AND LOT NUMBER.
- 3. BENCHMARK USED: NHCO CORS BASE STATION VERTICAL DATUM: NAVD 88 (CORS)
- 4. HORIZONTAL COORDINATES: PROJECTION: NH STATE PLANE HORIZONTAL DATUM: NAD 83 (CORS)
- 5. EASEMENTS, RIGHTS AND RESTRICTIONS:
- EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN OR IDENTIFIED ARE THOSE WHICH WERE FOUND DURING RESEARCH PERFORMED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS. OTHER RIGHTS, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF SUBJECT PARCEL(\$) WOULD DETERMINE.
- 6. WETLANDS SHOWN HEREON WERE MAPPED BY CHRISTOPHER K. DANFORTH, CWS, OF TFMORAN INC. MAPPING WAS COMPLETED ON AUGUST 12, 2020.
- 7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. TFMORAN INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UNDERGROUND UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.

	SUnitil
	WETLAND IMPACT PLANS UTILITY RIGHT-OF-WAY (ROW) OVERALL EXISTING CONDITIONS PLAN UNITIL 37 LINE REBUILD CONCORD, NEW HAMPSHIRE PREPARED FOR UNITIL ENERGY SYSTEMS, INC. 6 LIBERTY LANE WEST HAMPTON, NH
2025	SCALE: 1'=300' NOVEMBER 18, 2020
	Civil Engineers Structurol Engineers Traffic Engineers Lond Surveyors Londscope Architects Scientists Keint Structurol Engineers Fox (603) 472–9747 Www.tfmoran.com
DR CK	F B - E B - E E CK NG CADFILE 95991-00 LINE PLANS EX-01

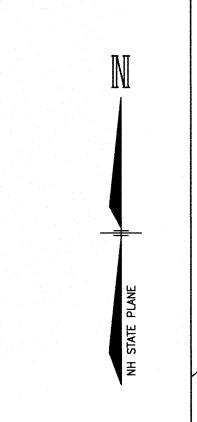


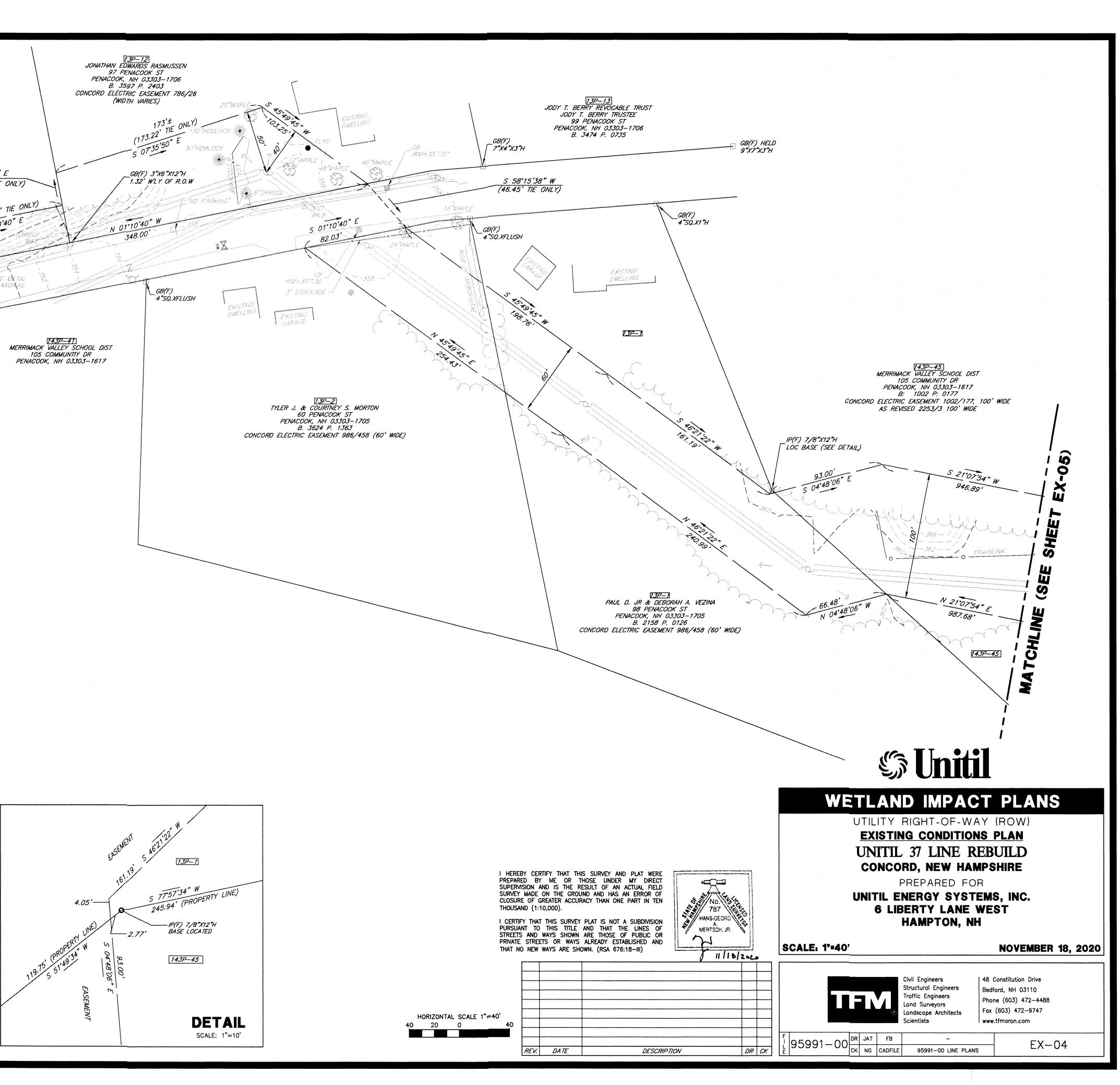


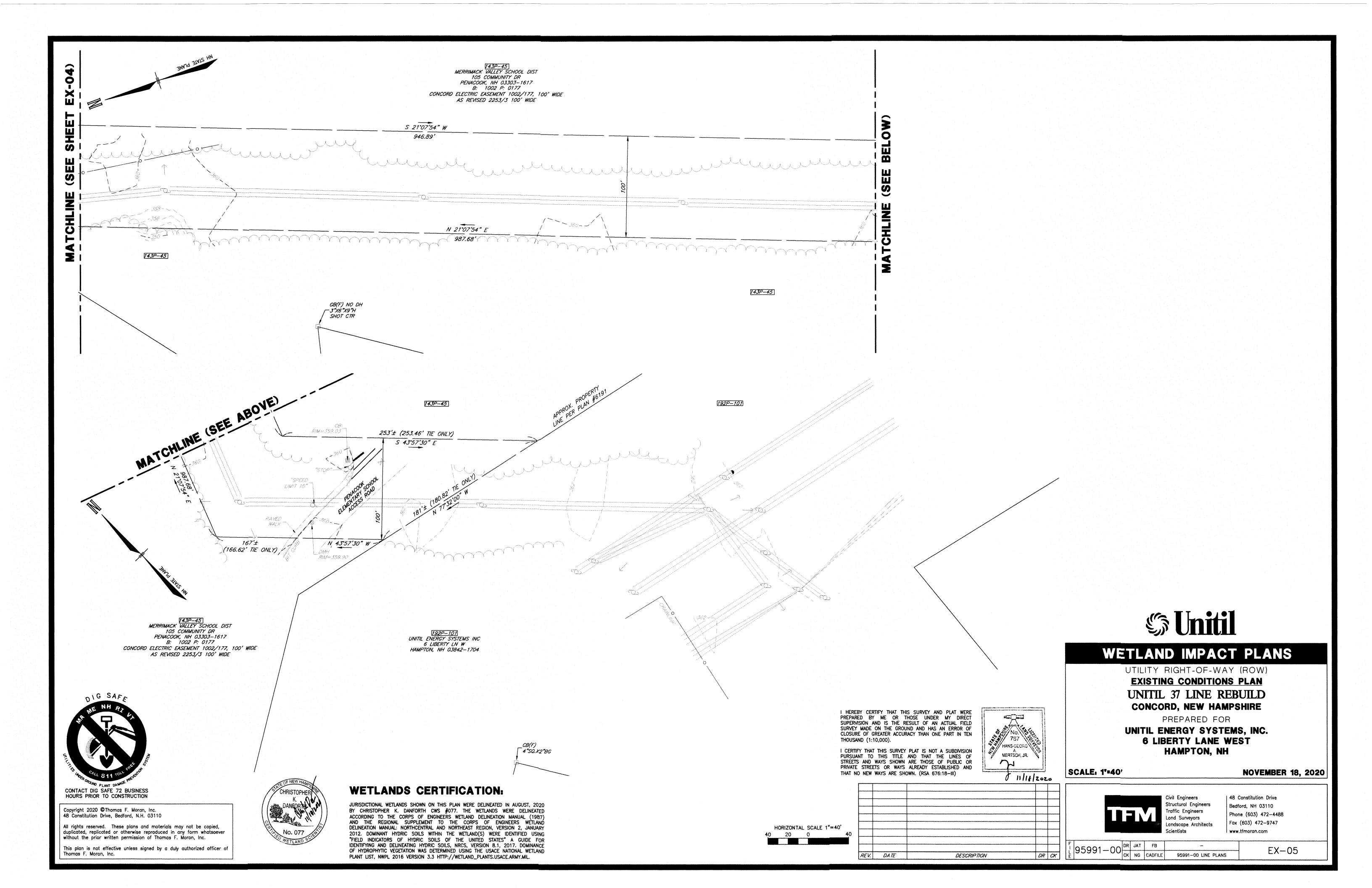














CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

RE V.	DA TE	DESCRIPTION

HORIZONTAL SCALE 1"=300' 300 150 0 300

NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED WETLAND AND CITY SHORELAND BUFFER IMPACT AREAS AND MAT ACCESS ROUTE IN THE PROJECT AREA.
- 2. THE CONTRACTOR SHALL INSTALL PRE-FABRICATED MATS ALONG THE PROPOSED ACCESS ROUTE. CONSTRUCTION VEHICLES SHALL USE THE PROPOSED MAT ACCESS ROUTE. ACCESS ROUTE IS PICTORIAL ONLY.
- 3. AREAS IMPACTED BY MATS SHALL BE STABILIZED IN ACCORDANCE WITH THE PROJECT EROSION CONTROL NOTES, SEE SHEETS C-02 AND C-06 FOR ADDITIONAL MATTING NOTES AND DETAILS.
- 4. CONTRACTOR SHALL PROVIDE STREET SWEEPER OR OTHER MEANS TO KEEP ROADWAYS AND PARKING AREAS CLEAR OF CONSTRUCTION RELATED DEBRIS OR SEDIMENT AT ALL TIMES.
- 5. FINAL LAYOUT OF TIMBER MATTERING BY CONTRACTOR. SHOULD LAYOUT OF TIMBER MATTING EXCEED AREA SHOWN ADDITIONAL PERMITTING SHALL BE REQUIRED.
- 6. SILT SOCK TO BE PLACED AT LIMITS OF ALL PERMANENT IMPACT AREAS. AREAS SHALL BE STABILIZED AT THE COMPLETION OF CONSTRUCTION WITH HAY MULCH AT A RATE OF 1.5 TONS OF MULCH PER ACRE AND SEED.
- 7. USFWS WETLAND CLASSIFICATION PSSIE – PALUSTRINE SCRUB-SHRUB BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED PFOIE - PALUSTRINE FORESTED BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED R2UB2H - RIVERINE LOWER PERENNIAL UNCONSOLIDATED BOTTOM, SAND PERMANENTLY FLOODED

WETLAND IMPACT NOTES

WETLAND IMPACTS FOR THE PROPOSED PROJECT:

<u>PERMANENT WETLAND IMPACTS = 36 S.F. (TOTAL)</u> PERMANENT IMPACTS CONSIST OF: 8 S.F. PER POLE, 4 S.F. PER GUY ANCHOR AREA #1 = 12 S.F. AREA #2 = 8 S.F. AREA #3 = 0 S.F.

AREA #4 = 0 S.F.

AREA #5 = 0 S.F. AREA #6 = 0 S.F.

AREA #7 = 0 S.F.

AREA #8 = 8 S.F.

AREA #9 = 8 S.F. AREA #10 = 0 S.F.

TEMPORARY WETLAND IMPACTS = 15,715 S.F. (TOTAL)

TEMPORARY IMPACTS: FOR ACCESS FOR POLE INSTALLATION. IMPACT ONLY IF WINTER CONDITIONS ARE NOT ACCEPTABLE FOR CONSTRUCTION. MATS WILL BE USED TO MINIMIZE TEMPORARY IMPACT AREAS IF FROZEN CONDITIONS ARE NOT AVAILABLE.

AREA	#1	=	2,025 S.I	Ξ.
AREA	#2	=	3,165 S.I	Ξ.
AREA	#3	=	1,240 S.I	Ξ.
AREA	#4	=	590 S.F.	
AREA	#5	=	1,390 S.I	Ξ.
AREA	#6	=	960 S.F.	
AREA	#7	=	835 S.F.	
AREA	#8	=	490 S.F.	
AREA	#9	=	4,780 S.I	Ξ.
AREA	#10) =	= 240 S.F	•

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WETLAND BUFFER IMPACTS = 21,131 S.F. (TOTAL)

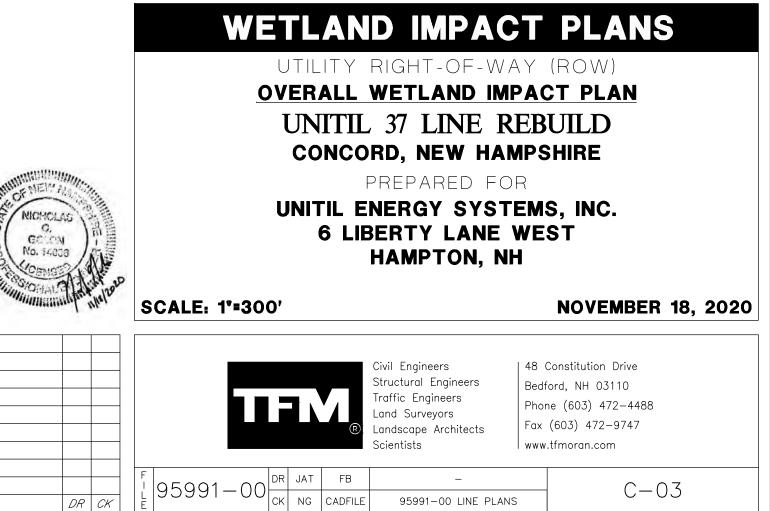
AREA #1 = 3,010 S.F. AREA #2 = 890 S.F. AREA #3 = 860 S.F. AREA #4 = 1,260 S.F. AREA #5 = 830 S.F. AREA #6 = 1,500 S.F. AREA #7 = 1,280 S.F. AREA #8 = 7,500 S.F. AREA #9 = 0 S.F. AREA #10 = 4,001 S.F.

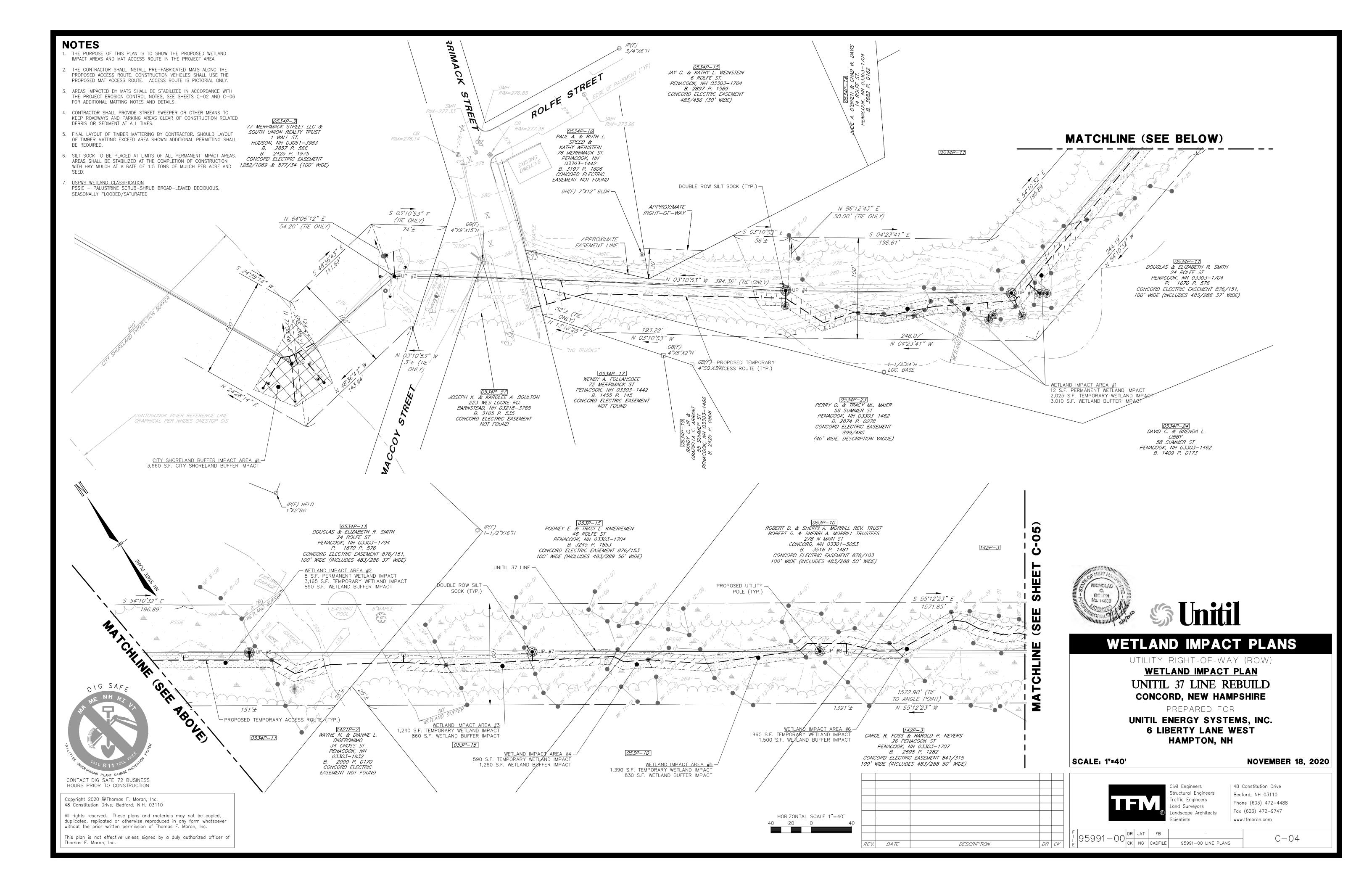


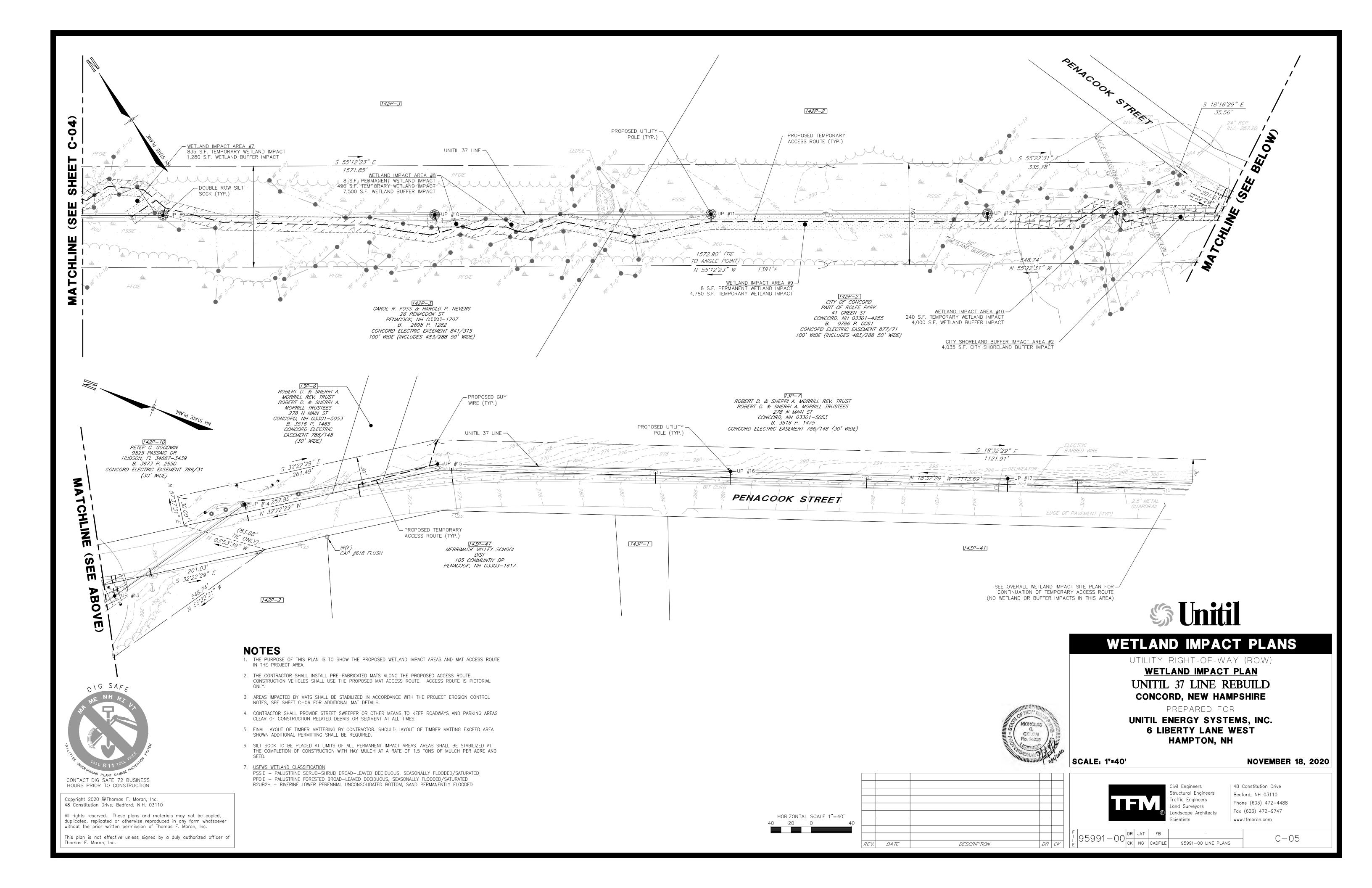
CITY SHORELAND BUFFER IMPACT NOTES

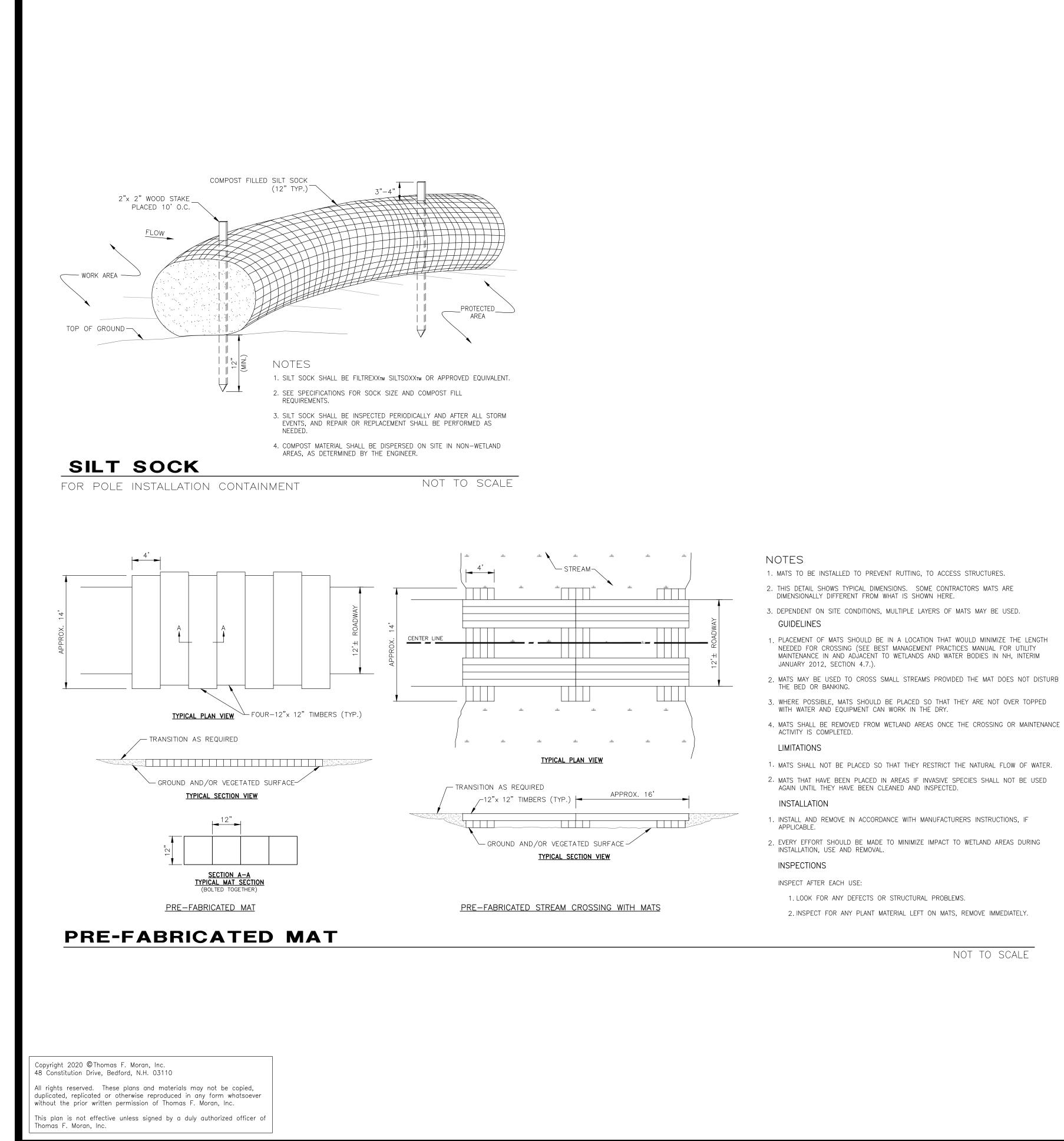
<u>CITY SHORELAND BUFFER IMPACTS = 7,695 S.F. (TOTAL)</u> AREA #1 = 3,660 S.F. AREA #2 = 4,035 S.F.











NOT TO SCALE

REV.	DA TE	DESCRIP TION

GUIDELINES

JANUARY 2012, SECTION 4.7.).

THE BED OR BANKING.

ACTIVITY IS COMPLETED.

LIMITATIONS

INSTALLATION

INSPECTIONS

INSTALLATION, USE AND REMOVAL.

INSPECT AFTER EACH USE:

APPLICABLE.

- 1. MATS TO BE INSTALLED TO PREVENT RUTTING, TO ACCESS STRUCTURES.

DIMENSIONALLY DIFFERENT FROM WHAT IS SHOWN HERE.

WITH WATER AND EQUIPMENT CAN WORK IN THE DRY.

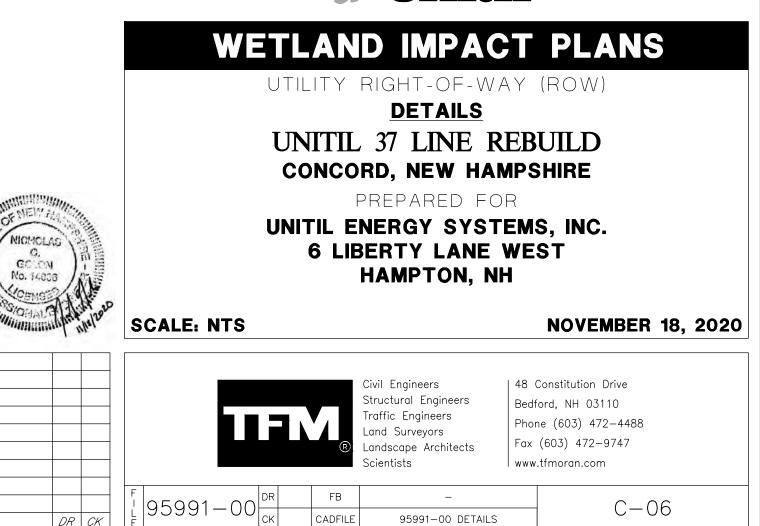
1. LOOK FOR ANY DEFECTS OR STRUCTURAL PROBLEMS.

2. INSPECT FOR ANY PLANT MATERIAL LEFT ON MATS, REMOVE IMMEDIATELY.

- NOTES

NEEDED FOR CROSSING (SEE BEST MANAGEMENT PRACTICES MANUAL FOR UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATER BODIES IN NH, INTERIM





CADFILE

DR CK

95991-00 DETAILS