

GENERAL INFORMATION

OWNER

MAP 494Z LOT 44
UNITIL ENERGY SYSTEMS INC.
NATHAN SHERWOOD, P.E.
6 LIBERTY LANE WEST
HAMPTON, NH 03824
603-773-6476

APPLICANT

UNITIL ENERGY SYSTEMS INC.
NATHAN SHERWOOD, P.E.
30 ENERGY WAY
EXETER, NH 03833
603-773-6476

RESOURCE LIST

PLANNING, ZONING
& COMMUNITY DEVELOPMENT
DEPARTMENT
41 GREEN STREET, 3RD FLOOR
CONCORD, NH 03301
603-225-8595
603-225-8515
MATTHEW WALSH, DEPUTY CITY
MANAGER-DEVELOPMENT &
ANNE-MARIE SKINNER, CITY PLANNER

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

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

GENERAL SERVICES
(PUBLIC WORKS)
311 NORTH STREET
CONCORD, NH 03301
603-230-3929
KEVIN DEMERS, ASSISTANT SUPERINTENDENT

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

FIRE DEPARTMENT
24 HORSESHOE POND LANE
CONCORD, NH 03301
603-230-3804
PAUL SIROIS, FIRE MARSHALL

ASSOCIATED PROFESSIONALS

LIGHTING DESIGN
EXPOSURE LIGHTING
501 ISLINGTON ST, UNIT 1A
PORTSMOUTH, NH 03801
603-601-8080
KEN SWEENEY, APPLICATIONS ENGINEER

ABUTTERS

TAX MAP 582Z LOT 1
SMOKESTACK REALTY, LLC
345 BAPTIST ROAD
CANTERBURY, NH 03224

TAX MAP 58Z LOT 18
CHERYL GOCHEZ 2006 REV. TRUST
345 BAPTIST ROAD
CANTERBURY, NH 03224

TAX MAP 58Z LOT 17
CLAUDIA HANNON REV. TRUST
C/O ALEXIS B GATTO TRUSTEE
507 SOUTH BLVD. APT B
SALISBURY, MD 21801-5875

TAX MAP 58Z LOT 16
MT NEST, LLC
98 ROBINSON ROAD
HUDSON, NH 03051

TAX MAP 58Z LOT 15
PETER J & CASSANDRA DENONCOURT
268 N STATE STREET
CONCORD, NH 03301

TAX MAP 58Z LOT 14
JULIA & GALEN MARSH JR
272 N STATE STREET
CONCORD, NH 03301

TAX MAP 58Z LOT 13
AYODEJO AKINOLA
274 N STATE STREET
CONCORD, NH 03301-3224

TAX MAP 58Z LOT 12
DARTNELL PROPERTIES, LLC
121 SARAH CIRCLE
LACONIA, NH 03246-3069

TAX MAP 494Z LOT 32
BOSTON & MAINE CORP.
C/O PAN AM RAILWAYS, INC.
1700 IRON HORSE PARK
NORTH BILLERICA, MA 01862-1641

TAX MAP 494Z LOT 43
STATE OF NH
C/O DEPARTMENT OF CORRECTIONS
PO BOX 1806
CONCORD, NH 03302-1806

TAX MAP 494Z LOT 42
STATE OF NH
C/O SECRETARY OF STATE
107 N MAIN STREET
CONCORD, NH 03301-4951

TAX MAP 743Z LOT 10-2
NORTHERN RAILROAD
C/O PAN AM RAILWAYS, INC.
1700 IRON HORSE PARK
NORTH BILLERICA, MA 01862

TAX MAP 49Z LOT 3
CITY OF CONCORD
C/O ABUTTS R&R ROW
41 GREEN STREET
CONCORD, NH 03301-4255

TAX MAP 949Z LOT 40
BENJAMIN T CARBONE
42 CHURCHILL DRIVE
HOOKSETT, NH 03106-4702

UNITIL
WEST CONCORD
SUBSTATION
1-7 MCGUIRE STREET
CONCORD, NEW HAMPSHIRE

VICINITY PLAN

INDEX OF SHEETS	
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C-02	NOTES & LEGEND
C-03	NOTES
SHEET 1 OF 1	EXISTING CONDITIONS SURVEY PLAN
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C-05	OVERALL SITE LAYOUT PLAN
C-06	SITE LAYOUT PLAN
C-07	GRADING, DRAINAGE & UTILITY PLAN
C-08	STORMWATER MANAGEMENT PLAN
C-09	LANDSCAPING PLAN
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REFERENCE PLANS BY ASSOCIATED PROFESSIONALS	
L-01	LIGHTING PLAN

PERMITS/APPROVALS			
	NUMBER	APPROVED	EXPIRES
CITY OF CONCORD SITE PLAN APPROVAL			
CITY OF CONCORD CUP ARTICLE 28.2.4 (USE)			
CITY OF CONCORD CUP ARTICLE 28.4.4 (SHORELAND BUFFER)			
NHDES AOT PERMIT			
CITY OF CONCORD DRIVEWAY PERMIT			
NHDES SHORELAND PERMIT			
EPA NPDES ENOI CGP & SWPPP			

WAIVERS	
THE FOLLOWING WAIVERS FROM THE CITY OF CONCORD SITE PLAN REVIEW REGULATIONS ARE REQUESTED FROM THE PLANNING BOARD:	
1. CITY OF CONCORD STANDARD DETAILS SECTION 3(2)(C)	
2. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(7)	
3. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(8)	
4. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(16)	
5. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(17)	
6. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(18)	
7. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.03(23)	
8. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 15.04(6)	
9. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 20.06	
10. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 26.02	
11. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 26.03	
12. CITY OF CONCORD SITE PLAN REGULATIONS SECTION 6.03(2)(c) & 11.05	

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

ChairClerk

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STATE OF NEW HAMPSHIRE

NICHOLAS C. GOLON

No. 14086

PROFESSIONAL ENGINEER

9/22/25

1	9/22/25	REVISED PER CITY COMMENTS	JB	NG
REV	DATE	DESCRIPTION	DR	CK

SCALE: AS NOTED

AUGUST 20, 2025

TFM

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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

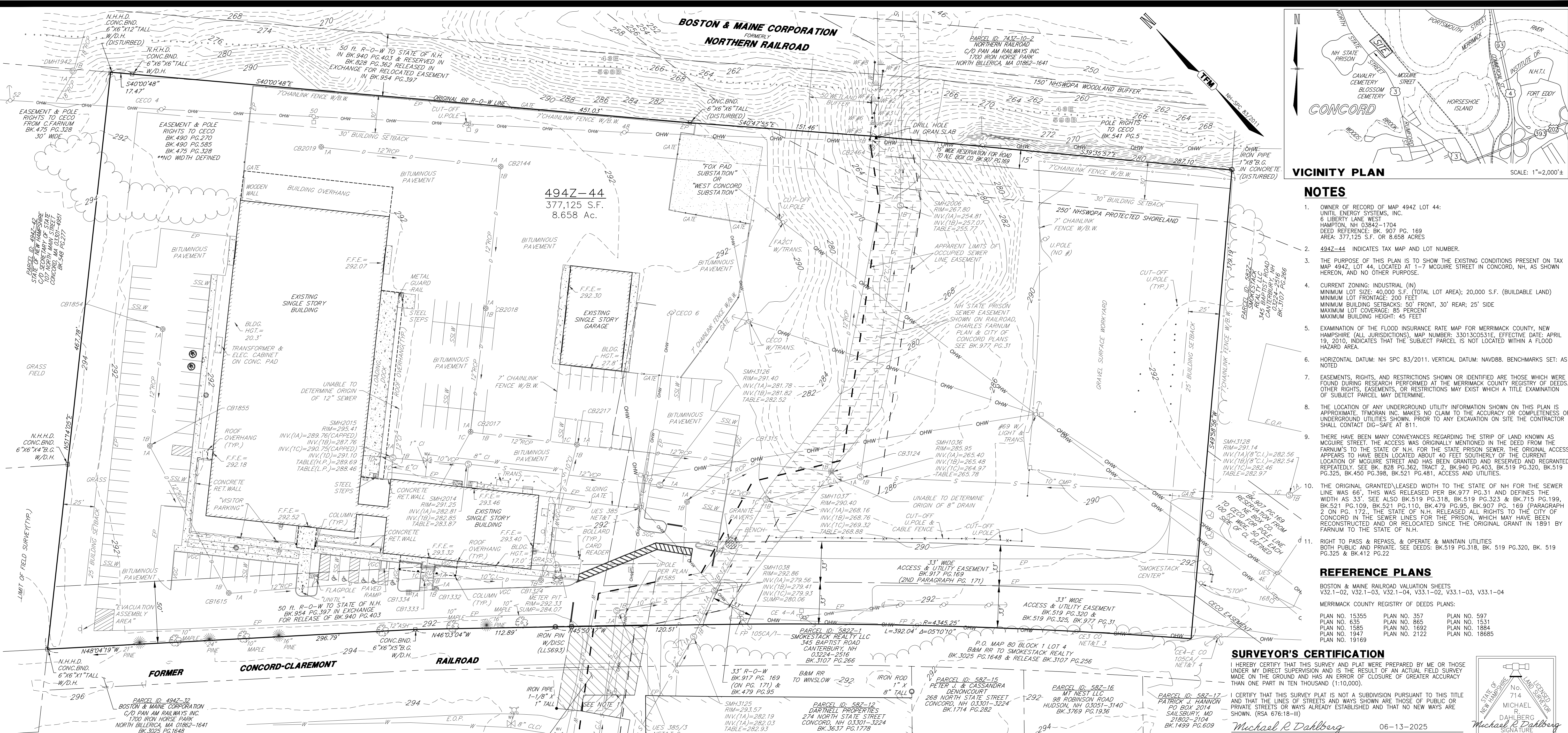
F I E

96159-01

DR PL FB
CK NG CADFILE

96159-01 COVER & DETAILS

C-01



NOTES

- OWNER OF RECORD OF MAP 494Z LOT 44: UNITIL ENERGY SYSTEMS, INC. 6 LIBERTY LANE WEST HAMPTON, NH 03842-1704 DEED REFERENCE: BK. 907 PG. 169 AREA: 377,125 S.F. OR 8.658 ACRES
- 494Z-44 INDICATES TAX MAP AND LOT NUMBER.
- THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS PRESENT ON TAX MAP 494Z, LOT 44, LOCATED AT 1-7 MCGUIRE STREET IN CONCORD, NH, AS SHOWN HEREON, AND NO OTHER PURPOSE.
- CURRENT ZONING: INDUSTRIAL (IN) MINIMUM LOT SIZE: 40,000 S.F. (TOTAL LOT AREA); 20,000 S.F. (BUILDABLE LAND) MINIMUM LOT FRONTAGE: 200 FEET MINIMUM BUILDING SETBACKS: 50' FRONT, 30' REAR; 25' SIDE MAXIMUM LOT COVERAGE: 85 PERCENT MAXIMUM BUILDING HEIGHT: 45 FEET
- EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR MERRIMACK COUNTY, NEW HAMPSHIRE (ALL JURISDICTIONS), MAP NUMBER: 3301300531E, EFFECTIVE DATE: APRIL 19, 2010, INDICATES THAT THE SUBJECT PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD AREA.
- HORIZONTAL DATUM: NH SPC 83/2011. VERTICAL DATUM: NAVD88. BENCHMARKS SET: AS NOTED
- 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 MAY DETERMINE.
- 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.
- THERE HAVE BEEN MANY CONVEYANCES REGARDING THE STRIP OF LAND KNOWN AS MCGUIRE STREET. THE ACCESS WAS ORIGINALLY MENTIONED IN THE DEED FROM THE FARNUM'S TO THE STATE OF N.H. FOR THE STATE PRISON SEWER. THE ORIGINAL ACCESS APPEARED TO HAVE BEEN LOCATED ABOUT 40 FEET SOUTH OF THE CURRENT LOCATION OF MCGUIRE STREET AND HAS BEEN GRANTED AND RESERVED AND REGRANTED REPEATEDLY. SEE BK. 828 PG.362, TRACT 2, BK.940 PG.403, BK.519 PG.320, BK.519 PG.325, BK.450 PG.398, BK.521 PG.481, ACCESS AND UTILITIES.
- THE ORIGINAL GRANTED/LEASED WIDTH TO THE STATE OF NH FOR THE SEWER LINE WAS 66'. THIS WAS RELEASED PER BK.977 PG.31 AND DEFINING THE WIDTH AS 33'. SEE ALSO BK.519 PG.318, BK.519 PG.323 & BK.715 PG.199, BK.521 PG.109, BK.521 PG.110, BK.479 PG.95, BK.907 PG. 169 (PARAGRAPH 2 ON PG. 172, THE STATE OF N.H. RELEASED ALL RIGHTS TO THE CITY OF CONCORD IN THE SEWER LINES FOR THE PRISON, WHICH MAY HAVE BEEN RECONSTRUCTED AND OR RELOCATED SINCE THE ORIGINAL GRANT IN 1891 BY FARNUM TO THE STATE OF N.H.
- RIGHT TO PASS & REPASS, & OPERATE & MAINTAIN UTILITIES BOTH PUBLIC AND PRIVATE. SEE DEEDS: BK.519 PG.318, BK. 519 PG.320, BK. 519 PG.325 & BK.412 PG.22

REFERENCE PLANS

BOSTON & MAINE RAILROAD VALUATION SHEETS
V32.1-02, V32.1-03, V32.1-04, V33.1-02, V33.1-03, V33.1-04
MERRIMACK COUNTY REGISTRY OF DEEDS PLANS:
PLAN NO. 13355 PLAN NO. 357 PLAN NO. 597
PLAN NO. 635 PLAN NO. 865 PLAN NO. 15317
PLAN NO. 1585 PLAN NO. 1692 PLAN NO. 1884
PLAN NO. 1947 PLAN NO. 2122 PLAN NO. 18685
PLAN NO. 19169

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN TEN THOUSAND (1:10,000).

I CERTIFY THAT THIS SURVEY PLAN IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. (RSA 676:18-III)

Michael R Dahlberg
LICENSED LAND SURVEYOR

06-13-2025
DATE

Michael R Dahlberg
LICENSED LAND SURVEYOR
06-13-2025

N.R.C.S. SOIL LEGEND

- WINDSOR LOAMY SAND, 15 TO 60 PERCENT SLOPES
WINDSOR URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES

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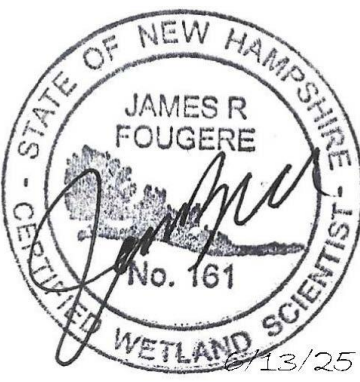
CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION "IT'S THE LAW"
811
Dig Safe
MAINE NH RI VT

LEGEND

- CONCRETE BOUND
IRON PIPE
IRON PIN
DRILL HOLE
SLOPED GRANITE CURB
VERTICAL GRANITE CURB
EDGE OF PAVEMENT
EDGE OF GRAVEL
SINGLE SOLID WHITE LINE
RETAINING WALL
WIRE FENCE
CHAIN LINK FENCE
SIGN
GAS VALVE
LIGHT POLE
HYDRANT
GUY ANCHOR
ELECTRIC METER
- SEWER MANHOLE
DRAIN MANHOLE
CATCH BASIN
WATER GATE
UTILITY POLE
INDEX CONTOUR
INTERMEDIATE CONTOUR
N.S.C.S. SOILS BOUNDARY
EDGE OF WATER
TREELINE
TREES
SEWER LINE
WATER LINE
DRAIN LINE
GAS LINE
OVERHEAD UTILITIES
BOLLARD

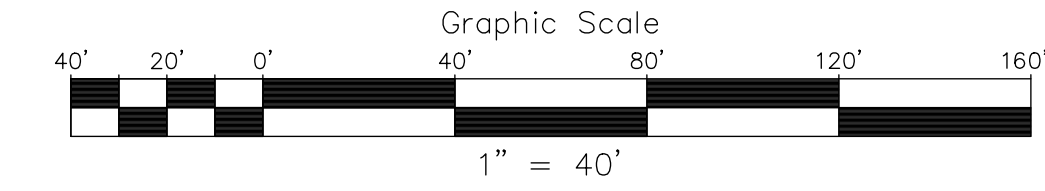
WETLAND SCIENTIST CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED BY JAMES FOUGERE CWS #161. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEASTERN AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE NATIONAL WETLAND PLANT LIST, NWPL 2016 VERSION 3.3. HTTP://WETLAND_PLANTS.USACE.ARMY.MIL.



DRAINAGE TABLE

STRUCTURE	RIM	INV 1A	INV 1B	INV 1C	INV 1D	SUMP/TABLE
CB 1854	290.68	287.43				285.46
CB 1855	290.56	286.37	286.72			285.05
CB 1615	290.81	285.02	285.30			283.11
CB 1332	291.02	286.48	287.03			286.16
CB 1334	291.01	287.77				
CB 1324	291.57	283.03	283.05			280.88
CB 1315	290.53	285.21	285.31			282.45
CB 2019	290.41	287.33				285.34
CB 2144	290.95	286.24	285.93			283.95
CB 2018	291.00	285.19	284.96			282.91
CB 2017	291.01	284.17	283.79	283.96		281.47
CB 2217	291.07	280.14	281.24	280.97		278.20
CB 2464	257.07	252.99				
CB 3124	286.18	271.78	270.80	270.79		271.56
DMH 1333	291.27	283.33	285.20	284.37	283.88	281.74
DMH 1942	280.06	276.29	266.44			265.91

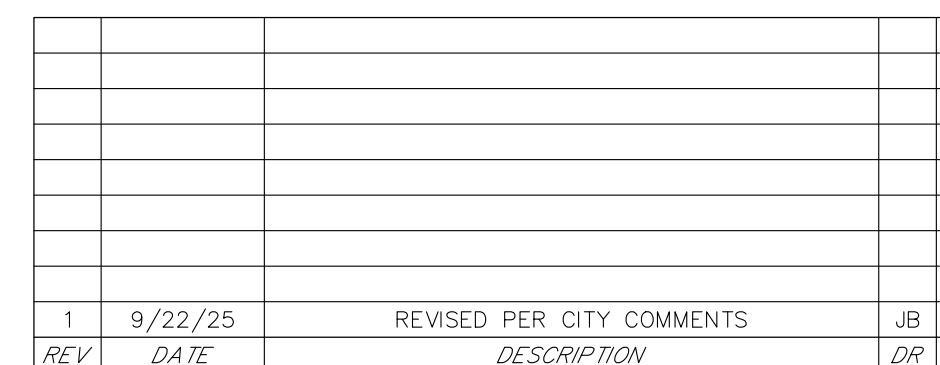


TAX MAP 494Z LOT 44
EXISTING CONDITIONS SURVEY PLAN
1 - 7 MCGUIRE STREET
CONCORD, NEW HAMPSHIRE
OWNED BY & PREPARED FOR:
UNITIL ENERGY SYSTEMS, INC.
SCALE: 1" = 40'
APRIL 22, 2025

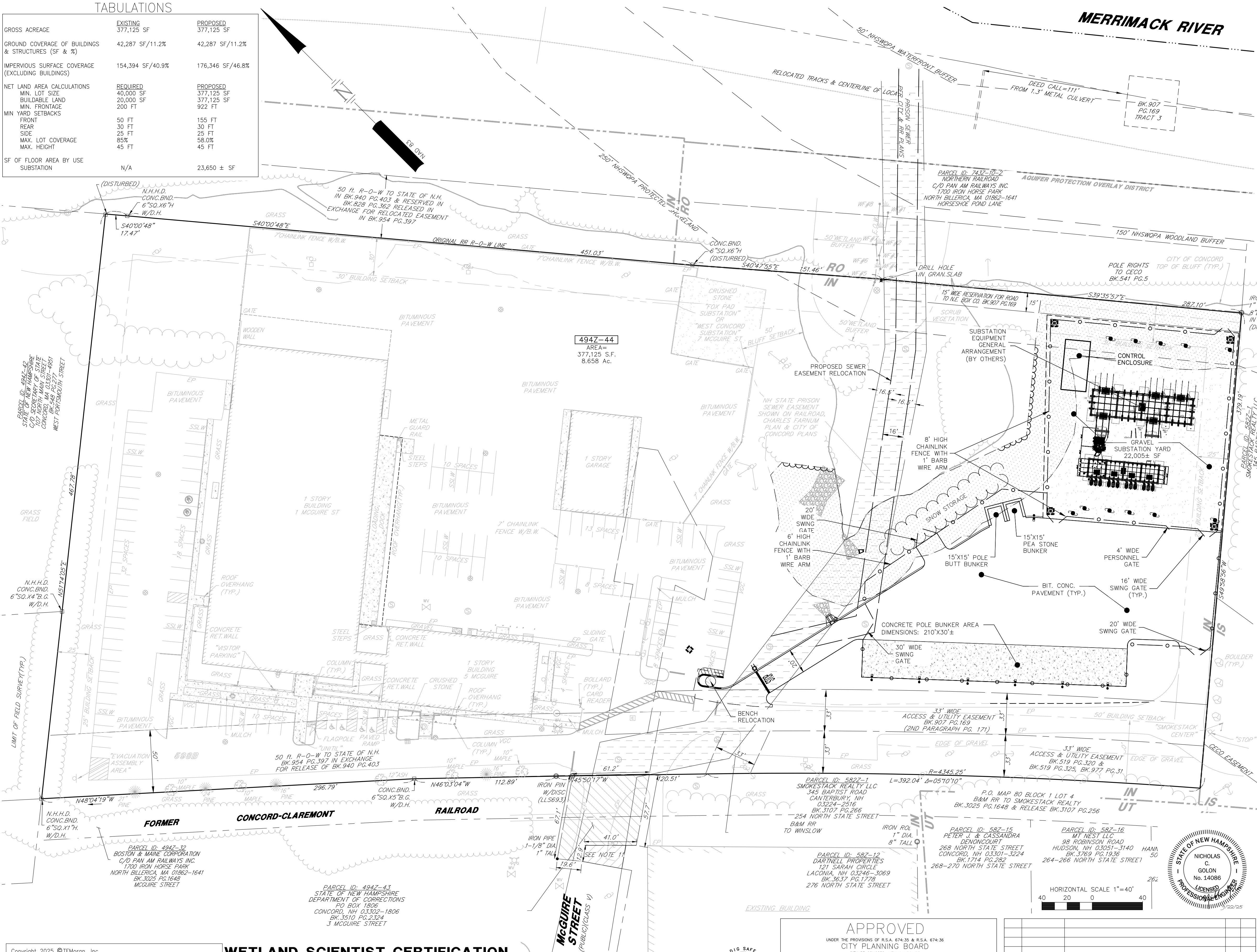


Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists
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FILE	96159.00	DR	LR	FB	2202	
CHK	MRD	CADFILE			96159.00 Survey	SHEET 1 OF 1



TABULATIONS		
GROSS ACREAGE	EXISTING 377,125 SF	PROPOSED 377,125 SF
GROUND COVERAGE OF BUILDINGS & STRUCTURES (SF & %)	42,287 SF/11.2%	42,287 SF/11.2%
IMPERVIOUS SURFACE COVERAGE (EXCLUDING BUILDINGS)	154,394 SF/40.9%	176,346 SF/46.8%
NET LAND AREA CALCULATIONS	REQUIRED MIN. LOT SIZE 40,000 SF MIN. BUILDABLE LAND 20,000 SF MIN. FRONTAGE 200 FT	PROPOSED 377,125 SF 377,125 SF 922 FT
MIN YARD SETBACKS		
FRONT	50 FT	155 FT
REAR	30 FT	30 FT
SIDE	25 FT	25 FT
MAX. LOT COVERAGE	85%	58.0%
MAX. HEIGHT	45 FT	45 FT
SF OF FLOOR AREA BY USE SUBSTATION	N/A	23,650 ± SF



- ### NOTES
- SEE NOTES ON SHEET C-02.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
 - LIGHTING, SIGNAGE, LANDSCAPING, AND SCREENING SHALL MEET THE REQUIREMENTS OF THE CONCORD ZONING ORDINANCE AND SITE PLAN REGULATIONS.
 - SNOW SHALL NOT BE STOCKPILED IN STORMWATER BMP'S, WETLAND BUFFERS, OR WETLANDS. SEE SNOW STORAGE LOCATIONS IN THE EVENT THAT THE SNOW STORAGE AREAS PROVIDED ON THE SITE ARE COMPLETELY UTILIZED, EXCESS SNOW SHALL BE TRANSPORTED OFF SITE FOR DISPOSAL IN ACCORDANCE WITH NHDES REGULATION. IF SNOW IS STORED WITHIN PARKING AREA, KEEP CATCH BASINS CLEAR.
 - OWNER OF RECORD OF MAP 494Z LOT 44: UNITIL ENERGY SERVICES INC., 6 LIBERTY LANE WEST, HAMPTON, NH 03842-1704
DEED REFERENCE TO PARCEL IS BK 907 PG 169
AREA OF PARCEL = 8.661 ACRES

ZONED: INDUSTRIAL DISTRICT (IN)
EXISTING USE: ELECTRIC SUBSTATION (ESSENTIAL PUBLIC UTILITIES AND APPURTENANCES)
PROP. USE: ELECTRIC SUBSTATION (ESSENTIAL PUBLIC UTILITIES AND APPURTENANCES)

6. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED CONSTRUCTION FOR THE WEST CONCORD SUBSTATION REPLACEMENT.
 - DIMENSIONAL REQUIREMENTS (CURRENT ZONING)**

	REQUIRED:	PROVIDED:
MINIMUM LOT DIMENSIONS:		
LOT AREA	40,000 SF	377,125 ± SF
LOT FRONTAGE	200 SF	922 FT
MINIMUM SETBACKS/BUFFER:		
BUILDING FRONT	50 FT	155 FT
BUILDING SIDE	25 FT	25 FT
BUILDING REAR	30 FT	30 FT
MAXIMUM LOT COVERAGE	85%	58%
 - PARKING CALCULATIONS**
REQUIRED: TABLE 27-8-2(E) UNMANNED UTILITY EQUIPMENT STRUCTURE 2 SP/STRUCT
EXISTING: 130 SPACES
PROPOSED: PARKING FOR UNTIL SERVICE TECHNICIANS IS PROVIDED INSIDE THE YARD AND/OR WITHIN THE EXISTING FACILITY SPACES.
 - 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 MAY DETERMINE.
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 - THERE IS NO PROPOSED SIGNAGE.
 - THERE ARE NO PROPOSED SOLID WASTE FACILITIES.
 - EXISTING AND PROPOSED STORAGE AREAS SHALL BE USED TO FACILITATE UNTIL AS AN ESSENTIAL PUBLIC UTILITY PROVIDER. MATERIALS AND STORAGE LOCATIONS WITHIN THE SECURE FENCING SHALL BE ALLOCATED AS NECESSARY TO SUPPORT ELECTRICAL INFRASTRUCTURE NEEDS.



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44
OVERALL SITE LAYOUT PLAN
UNITIL WEST CONCORD SUBSTATION
1-7 MCGUIRE STREET, CONCORD, NH 03301
OWNED BY/PREPARED FOR
UNITIL ENERGY SYSTEMS, INC.
6 LIBERTY LANE WEST, HAMPTON, NH 03824
APPLICANT
UNITIL ENERGY SYSTEMS, INC.
30 ENERGY WAY, EXETER, NH 03333

SCALE: 1"=40' AUGUST 20, 2025

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

WETLAND SCIENTIST CERTIFICATION

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED BY JAMES FOUERE CWS #161. THE WETLANDS WERE DELINEATED ON JULY 24, 2023 ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE NATIONAL WETLAND PLANT LIST, NWPL 2016 VERSION 3.3 HTTP://WETLAND_PLANTS.USACE.ARMY.MIL.



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

Chair _____ Clerk _____

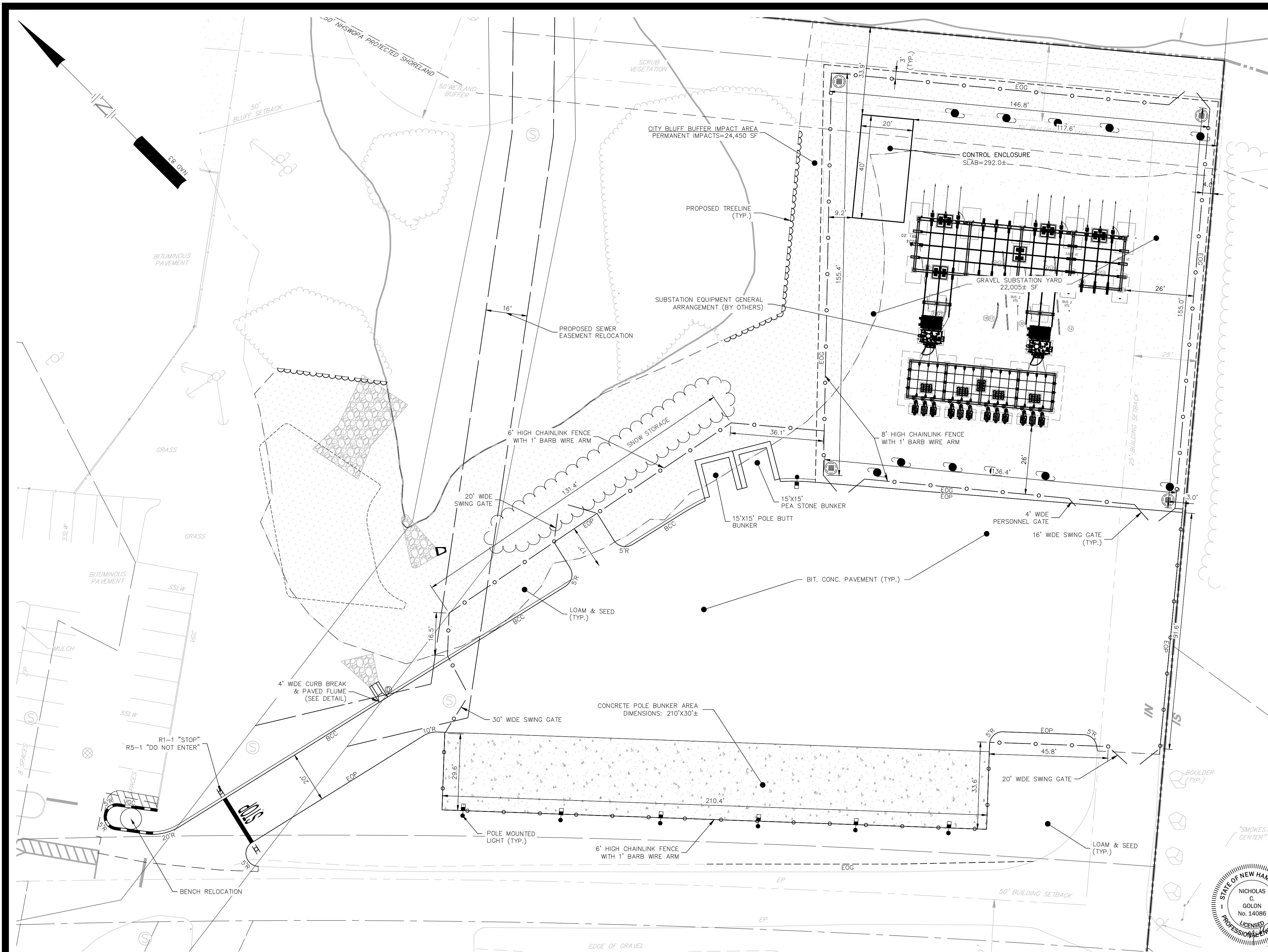
1	9/22/25	REVISED PER CITY COMMENTS	JB	NG
REV	DATE	DESCRIPTION	DR	CK

F I L E		96159-01	DR	JB	FB	96159-01 DESIGN_LAYOUT		C-05
		CK	NG	CADFILE				



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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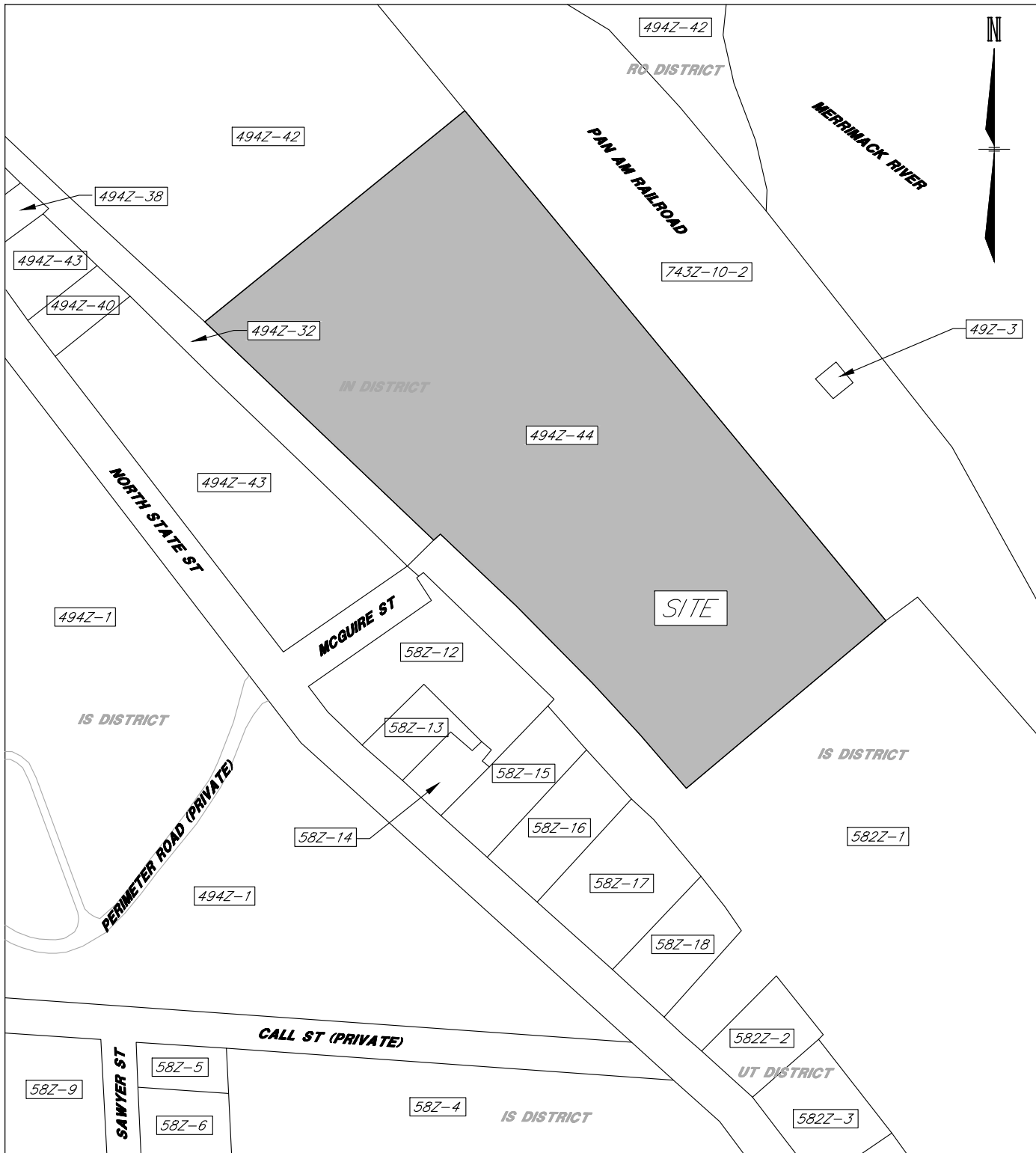


NOTES

1. SEE SHEET C-04 FOR SITE PLAN NOTES.

CITY BLUFF BUFFER IMPACT NOTES

CITY OF CONCORD BLUFF BUFFER IMPACTS = 24,450 SF



LOCATION PLAN

HORIZONTAL SCALE 1"=400'



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

SITE LAYOUT PLAN

UNITIL WEST CONCORD SUBSTATION

1-7 MCGUIRE STREET, CONCORD, NH 03301

OWNED BY/PREPARED FOR

UNITIL ENERGY SYSTEMS, INC.

6 LIBERTY LANE WEST, HAMPTON, NH 03824

APPLICANT

UNITIL ENERGY SYSTEMS, INC.

30 ENERGY WAY, EXETER, NH 03833

SCALE: AS NOTED

AUGUST 20, 2025

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HORIZONTAL SCALE 1"=20'

1	9/22/25	REVISED PER CITY COMMENTS	JB	NG
REV	DATE	DESCRIPTION	DR	CK

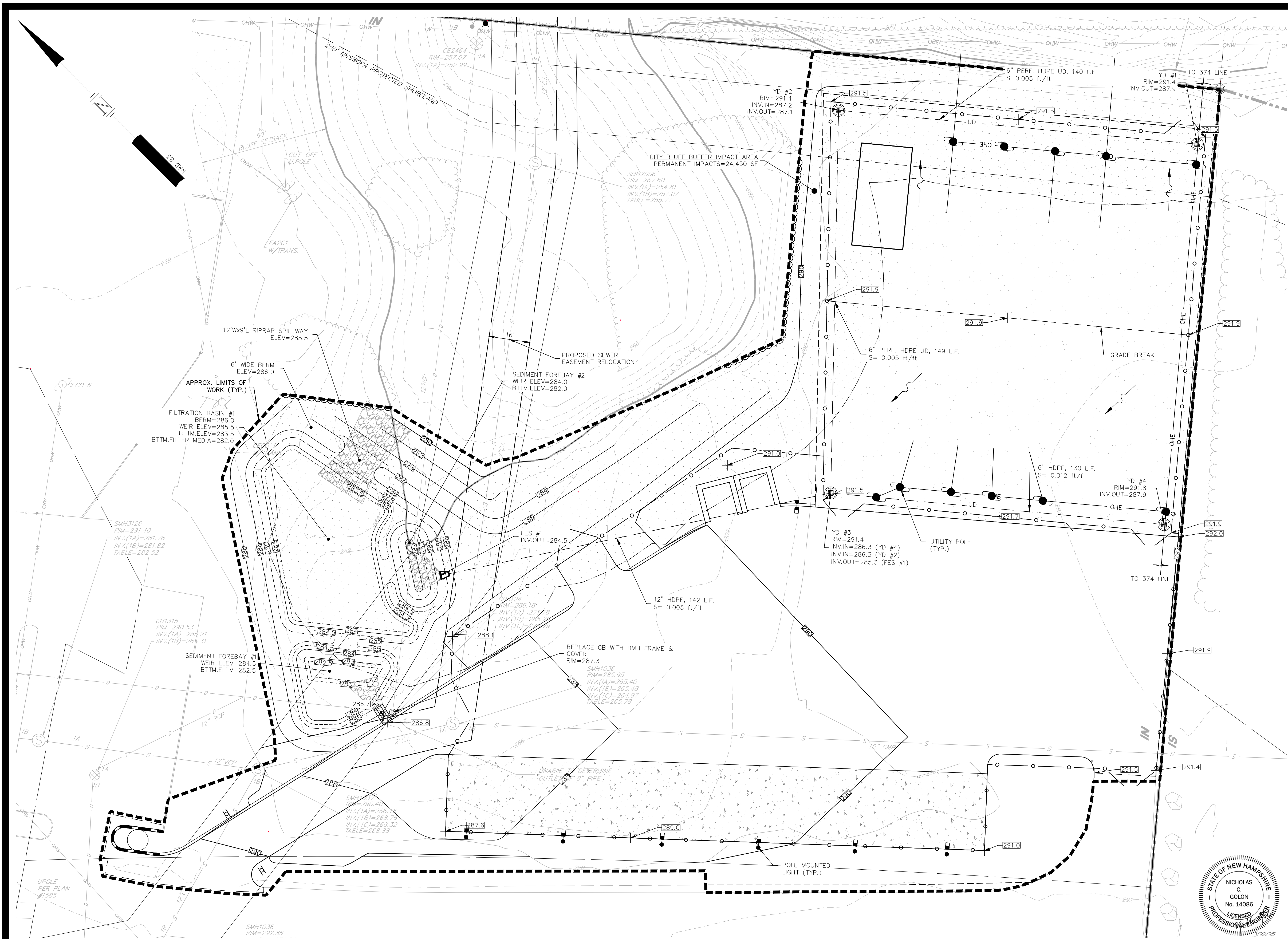


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Phone (603) 472-4488
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96159-01

C-06



NOTES

1. SEE GRADING NOTES ON SHEET C-02.
2. SEE UTILITY NOTES ON SHEET C-02.



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

GRADING, DRAINAGE & UTILITY PLAN

UNITIL WEST CONCORD SUBSTATION

1-7 MCGUIRE STREET, CONCORD, NH 03301

OWNED BY/PREPARED FOR

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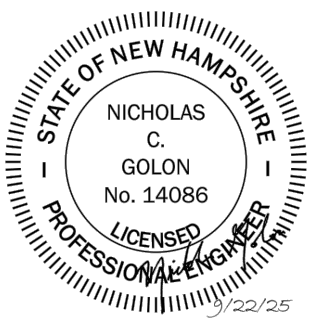
APPLICANT

UNITIL ENERGY SYSTEMS, INC.

30 ENERGY WAY, EXETER, NH 03833

SCALE: 1"=20'

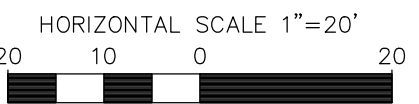
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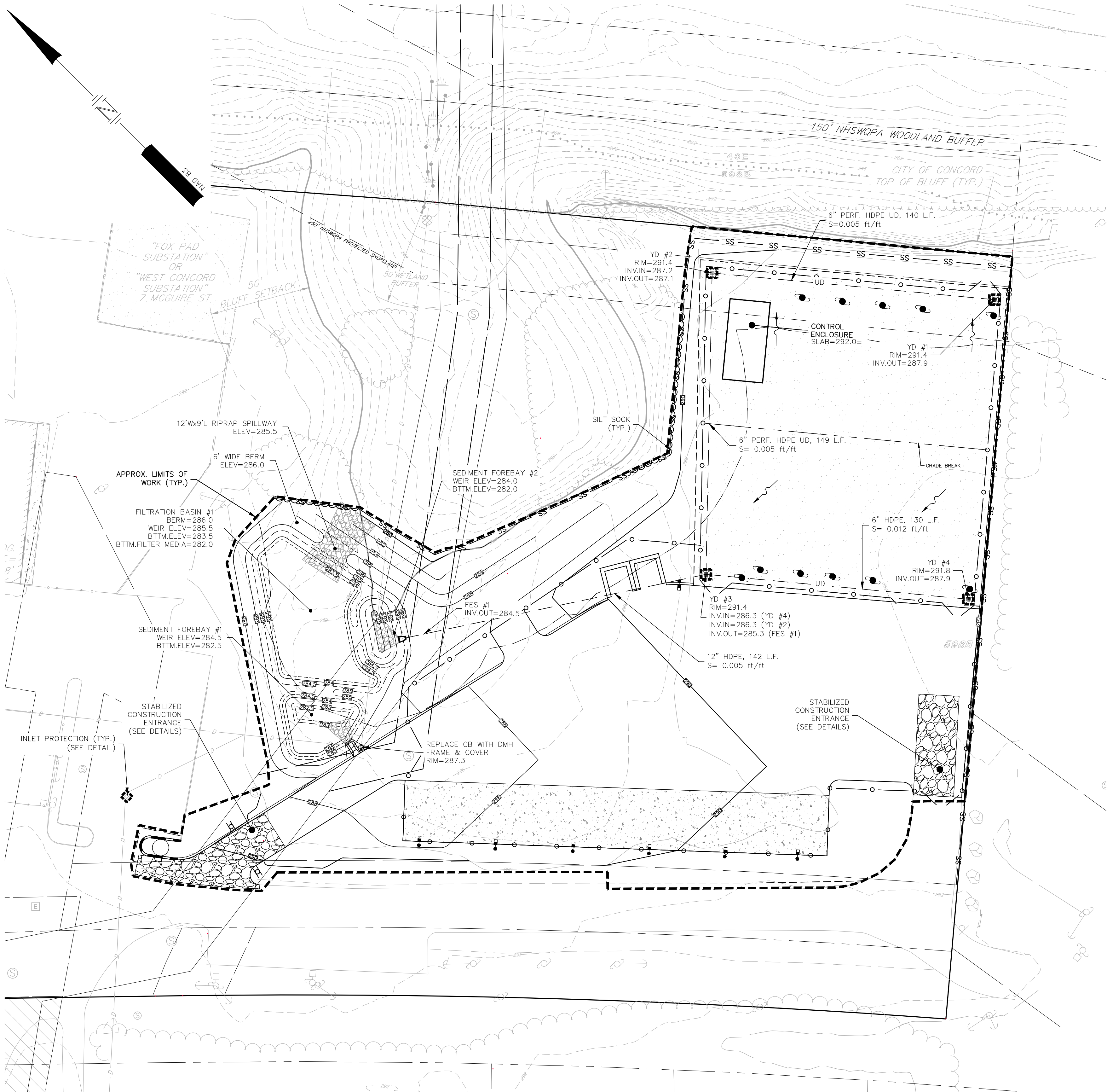
REV	DATE	DESCRIPTION	DR	CK
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HORIZONTAL SCALE 1"=30'
30 15 0 30

NOTES

- IT IS BEING PROPOSED TO RELOCATE THE EXISTING UNTIL WEST CONCORD SUBSTATION.
- TOTAL SITE AREA: 8.66± AC
TOTAL AREA OF DISTURBANCE: 2.03± AC
- SOILS SHOWN ARE FROM THE SOIL SURVEY OF MERRIMACK COUNTY, NH, EASTERN PART, PREPARED BY USDA-SOIL CONSERVATION SERVICES, 598B WINDSOR-URBAN LAND COMPLEX 0-8%, HSG B
- STORM WATER DRAINAGE SYSTEM IS SHOWN ON THE PLAN. SEE GRADING & DRAINAGE PLAN FOR RIM, INVERT, PIPE LENGTH, AND SLOPE INFORMATION.
POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.86
IMPERVIOUS SURFACE AREA: 0.72± AC
- STABILIZATION PRACTICES FOR EROSION AND SEDIMENTATION CONTROLS:

TEMPORARY STABILIZATION – TOPSOIL STOCKPILES AND DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 14 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 SF. 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 BE TEMPORARILY 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 SF TALL FESCUE, 0.20 LBS/1,000 SF CREEPING RED FESCUE, AND 0.20 LBS/1,000 SF BIRDSFOOT TREFOL. 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.

- STRUCTURAL PRACTICES FOR EROSION AND SEDIMENTATION CONTROL

SILT SOCK – WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE DISTURBED AREAS AND WILL DELINEATE THE LIMITS OF WORK FOR THE PROPOSED CONSTRUCTION. THE SILT SOCK WILL BE INSTALLED BY OTHERS. POSTS SHALL BE USED WITH AT LEAST 6" OF THE POST BURIED BELOW THE GROUND SURFACE TO PREVENT THE SILT SOCK FROM FORMING GAPS NEAR THE GROUND SURFACE. RUNOFF WILL FLOW THROUGH THE OPENINGS IN THE SILT SOCK WHILE RETAINING THE SEDIMENT WITHIN THE CONSTRUCTION AREA.

STABILIZED CONSTRUCTION ENTRANCE – WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL AT THE ENTRANCE TO THE CONSTRUCTION SITE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS OFF THE SITE. THE STABILIZED ENTRANCE WILL BE 20'-WIDE AND FLARE AT THE ENTRANCE TO THE PAVED ROAD AND HAVE A DEPTH OF 12" OF STONE. THE STABILIZED ENTRANCE SHALL BE MAINTAINED UNTIL THE REMAINDER OF THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED. THE PAVED STREET ADJACENT TO THE SITE SHALL BE SWEEPED ON A WEEKLY BASIS TO REMOVE EXCESS MUD AND DIRT FROM BEING TRACKED FROM THE SITE. TRUCKS HAULING MATERIAL TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TARPALIN.

CATCH BASINS – WILL BE CLEANED ON AN ANNUAL BASIS TO REMOVE ALL SEDIMENTS FROM THE CATCH BASIN SUMPS.

CATCH BASIN PROTECTION – WILL BE INSTALLED AT ALL CATCH BASINS WITHIN THE CONSTRUCTION AREA. FILTER FABRIC WILL BE INSTALLED AROUND THE GRATES OF CATCH BASINS THAT ARE LOCATED IN THE TRAVEL WAY AND STONE/FILTER FABRIC PROTECTION WILL BE INSTALLED AT THE CATCH BASINS FOUND WITHIN THE PARKING AREA AND GRASS.

BLANKET SLOPE PROTECTION – SHALL BE INSTALLED ON ALL 2:1 SLOPES OR STEEPER ON SITE. ANCHOR THE TOP OF THE BLANKET BY ANCHORING THE BLANKET A 6" DEEP TRENCH, BACKFILL AND COMPACT TRENCH AFTER STAPLING ROLL THE BLANKET IN THE DIRECTION OF STORM WATER FLOW. WHERE 2 OR MORE STRIPS OF BLANKET ARE REQUIRED, A MINIMUM OF 4" OF OVERLAP SHALL BE PROVIDED.

STONE CHECK DAMS – WILL BE INSTALLED IN EXISTING AND PROPOSED GRASS SWALES TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS AND PREVENT EROSION OF THE SWALE.

- STORM WATER MANAGEMENT

STORMWATER DRAINAGE FOR THE SUBSTATION AREA WILL BE COLLECTED BY AN OPEN AND CLOSED DRAINAGE SYSTEM. WHEN CONSTRUCTION IS COMPLETE, THE MAJORITY OF THE SITE WILL DRAIN INTO A FILTRATION BASIN.

- 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.

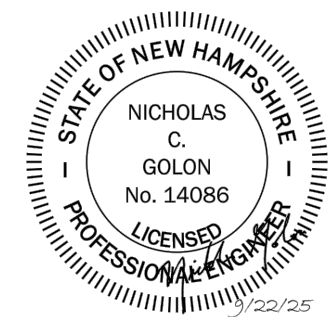
- A LIST OF CONSTRUCTION ITEMS AND OTHER PRODUCTS USED ON THIS PROJECT SHALL BE KEPT ON RECORD WITH THIS PLAN ONSITE. ALL CHEMICALS, PETROLEUM PRODUCTS AND OTHER MATERIALS USED DURING CONSTRUCTION SHALL BE STORED IN A SECURE AREA AND PRECAUTIONS USED TO PREVENT POTENTIAL SOURCES OF CONTAMINATION OR POLLUTION. ANY SPILL OF THESE TYPES OF SUBSTANCES SHALL BE CLEANED UP AND DISPOSED OF IN A LEGAL MANNER AS SPECIFIED BY STATE REGULATIONS AND THE MANUFACTURER. ANY SPILL IN AMOUNTS EQUAL TO OR EXCEEDING REPORTABLE QUANTITY AS DEFINED BY THE EPA SHALL TAKE THE FOLLOWING STEPS:
 - NOTIFY THE NATIONAL RESPONSE CENTER IMMEDIATELY AT (888) 424-8802; IN WASHINGTON, D.C., CALL (202) 426-2675.
 - WITHIN 14 DAYS, SUBMIT A WRITTEN DESCRIPTION OF THE RELEASE TO THE EPA REGIONAL OFFICE PROVIDING THE DATE AND CIRCUMSTANCES OF THE RELEASE AND THE STEPS TO BE TAKEN TO PREVENT ANOTHER RELEASE.
 - MODIFY THE POLLUTION PREVENTION PLAN TO INCLUDE THE INFORMATION LISTED ABOVE.

GOOD HOUSEKEEPING:

- THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB;
 - ALL MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE;
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL;
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER;
 - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED;
 - TRASH DUMPSTERS SHALL BE GASKETED OR HAVE A SECURE WATERTIGHT LID AND BE PLACED AWAY FROM STORMWATER CONVEYANCES AND DRAINS.
 - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF

LEGEND

- SS SILT SOCK
- INLET PROJECTION
- STABILIZED CONSTRUCTION ENTRANCE



MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

- THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 - ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION;
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES:

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

PETROLEUM PRODUCTS:

- ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

- FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:

- ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS:

- EXCESS CONCRETE SHALL BE USED IN AREAS DESIGNATED BY THE SITE CONTRACTOR. WASH WATER SHALL BE DISPOSED OF USING BEST MANAGEMENT PRACTICES. BUILDING CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DRUM WASH WATER ASSOCIATED WITH CONCRETE FOR THE BUILDING PAD. SITE CONTRACTOR TO COORDINATE AND PROVIDE BUILDING CONTRACTOR WITH AN AREA FOR DRUM WASH WATER.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST THREE OTHER SITE PERSONNEL WHO WILL EACH RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING DATES OF MAJOR GRADING ACTIVITIES, DATES WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED ON A PORTION OF THE SITE, DATES WHEN WORK IS COMPLETED ON A PORTION OF THE SITE, AND DATES WHEN STABILIZATION MEASURES ARE INITIATED ONSITE.

- THE CONTRACTOR SHALL PERFORM INSPECTIONS OR HAVE A CONSULTING ENGINEER PERFORM INSPECTIONS EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER A STORM OF 0.5" OR GREATER. INSPECTIONS REPORTS ARE TO BE KEPT ON FILE AT THE SITE WITH THIS PLAN. MAINTENANCE OR MODIFICATION SHALL BE IMPLEMENTED AND ADDED TO THE PLAN AS RECOMMENDED BY THE QUALIFIED INSPECTOR.



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

STORMWATER MANAGEMENT PLAN

UNITIL WEST CONCORD SUBSTATION

1-7 MCGUIRE STREET, CONCORD, NH 03301

OWNED BY/PREPARED FOR

UNITIL ENERGY SYSTEMS, INC.

6 LIBERTY LANE WEST, HAMPTON, NH 03824

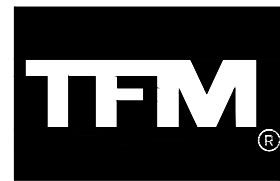
APPLICANT

UNITIL ENERGY SYSTEMS, INC.

30 ENERGY WAY, EXETER, NH 03833

SCALE: 1"=30'

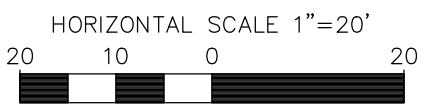
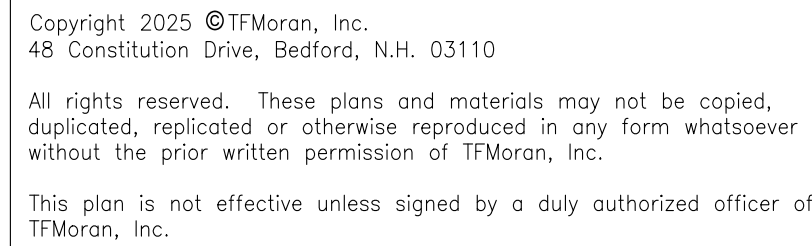
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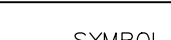
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FILE	96159-01	DR	JB	FB	CK	NG	CADFILE	96159-01 DESIGN_LAYOUT	C-08
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LANDSCAPE LEGEND

SYMBOL	QTY	BOTANICAL NAME COMMON NAME	SIZE	REMARKS
	1	ACER RUBRUM RED MAPLE	2.5" TO 3" CAL.	B&B

REQUIREMENTS

SOLID WASTE FACILITY SCREENING (20.06 SITE PLAN REGULATIONS):
 WAIVER REQUESTED FOR SCREENING OF OUTSIDE STORAGE AS THE POLE BUNKER AREA IS NOT EASILY VISIBLE
 BY THE PUBLIC

UNDERGROUND UTILITIES (27.06(5) SITE PLAN REGULATIONS):
NO TREES SHALL BE PLANTED WITHIN 10' OF EXISTING OR PROPOSED UNDERGROUND UTILITY LINES

GROUNDCOVER (27.07(1) SITE PLAN REGULATIONS):
ALL OPEN SPACE AREAS NOT COVERED WITH NATURAL VEGETATION SHALL BE COVERED WITH GRASS OR OTHER
VEGETATIVE GROUNDCOVERS, WITH THE EXCEPTION OF PLANTING BEDS WHICH MAY BE MULCHED

UNDESIRABLE GROWTH AND DEBRIS (27.07(10) SITE PLAN REGULATIONS):
EXISTING INVASIVE SPECIES SHALL BE REMOVED FROM THE DEVELOPED AREA. ALL TRASH, CONSTRUCTION MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE AREA OF WORK. DEAD AND DYING TREES WHICH PRESENT A POTENTIAL HAZARD TO EXISTING AND PROPOSED STRUCTURES SHALL BE REMOVED.

PARKING LOT PERIMETER (28-7-10(a) ZONING ORDINANCE):
N/A

INTERIOR GREEN SPACE (28-7-10(b) ZONING ORDINANCE):
N/A

PARKING AREA SHADE TREES (28-7-10(d) ZONING ORDINANCE):
N/A

LANDSCAPE NOTES

(SEE DETAILS FOR ADDITIONAL NOTES)

GENERAL

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS, LAWS, AND ORDINANCES HAVING JURISDICTION OVER THIS PROJECT SITE.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND NOTIFY OWNER'S REPRESENTATIVE OF CONFLICTS.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON PLANS BEFORE PRICING THE WORK. ANY DIFFERENCE IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. LANDSCAPE QUANTITIES SHOWN ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN LANDSCAPE LEGEND.
4. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK AND VERIFY THAT THE PLANS IN THE CONTRACTOR'S POSSESSION ARE THE MOST CURRENT PLANS AVAILABLE AND ARE THE APPROVED PLAN SET FOR USE IN CONSTRUCTION.
5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) [FORMERLY THE AMERICAN ASSOCIATION OF NURSEYMEN] IN THE AMERICAN STANDARD FOR NURSERY STOCK (AS AMENDED) [ANSI Z60.1-1996].
6. ALL PLANTS SHALL BE FIRST CLASS AND SHALL BE REPRESENTATIVE OF THEIR NORMAL SPECIES AND/OR VARIETIES. ALL PLANTS MUST HAVE GOOD, HEALTHY, WELL-FORMED UPPER GROWTH AND A LARGE, FIBROUS, COMPACT ROOT SYSTEM.
7. ALL PLANTS SHALL BE FREE FROM DISEASE AND INSECT PESTS AND SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL LAWS PERTAINING TO PLANT DISEASES AND INFESTATIONS.
8. ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY LANDSCAPE ARCHITECT.
9. ALL LANDSCAPED AREAS INCLUDING LAWNS SHALL BE PROVIDED WITH UNDERGROUND IRRIGATION. SEE IRRIGATION NOTES.
10. IF APPLICABLE, THE CONTRACTOR SHALL HAVE ALL FALL TRANSPLANTING HAZARD PLANTS DUG IN THE SPRING AND STORED FOR FALL PLANTING.
11. ALL INVASIVE PLANT SPECIES FROM THE "NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST", TO BE REMOVED SHALL BE DONE SO IN ACCORDANCE WITH THE "INVASIVE SPECIES ACT, HB 1258-FN."

GUARANTEE

1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK FOR A PERIOD OF ONE YEAR, BEGINNING AT THE START OF THE MAINTENANCE PERIOD.



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

LANDSCAPING PLAN

UNITIL WEST CONCORD SUBSTATION

1-7 MCGUIRE STREET, CONCORD, NH 03301

OWNED BY/PREPARED FOR
UNITIL ENERGY SYSTEMS, INC.

6 LIBERTY LANE WEST, HAMPTON, NH 03824

APPLICANT

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30 ENERGY WAY, EXETER, NH 03833

SCALE: 1"=20'

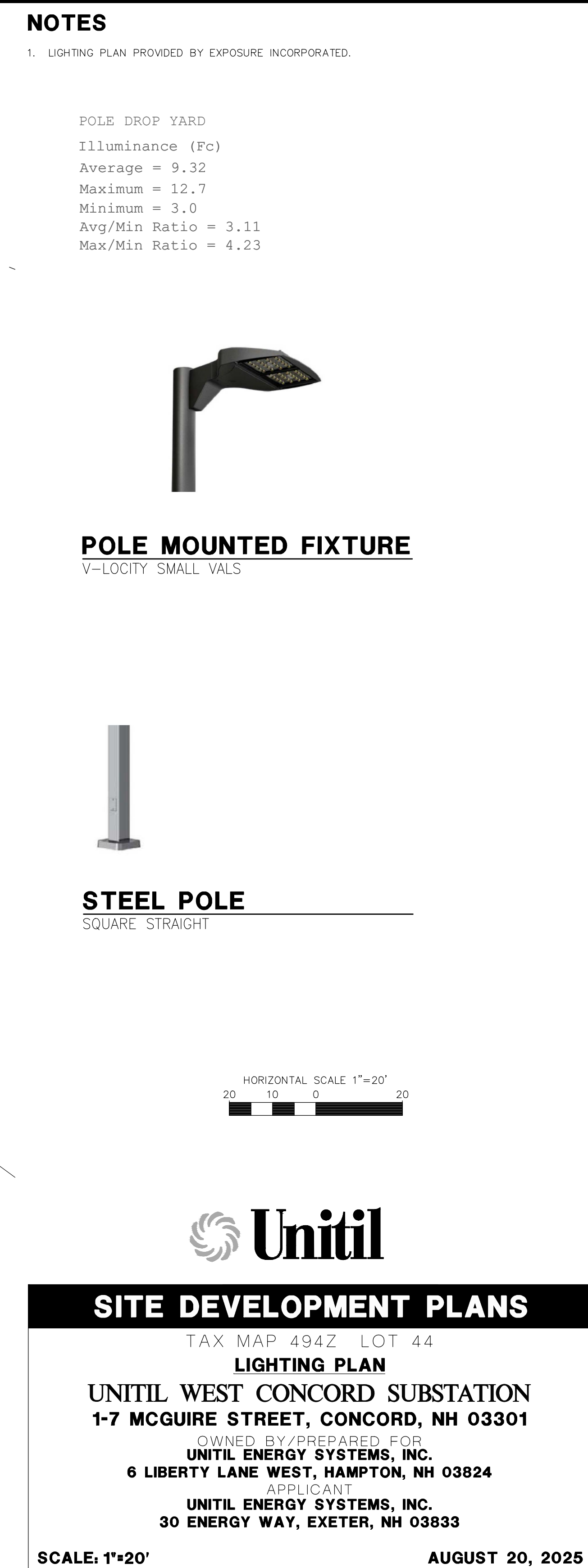
AUGUST 20, 2025





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- Scientists

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C-09



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Description	Tag	[MANUFAC]
	6	S-AM	Single	VALS-21L-AM-UNV-30K8-CXX-SA-ALBMR2LR-IS / 4SQ B3 S11G20 S CXX-AB 4BC	20' POLE ON 2.5' BASE	LSI INDUSTRIES, INC.
	1	S4	Single	VALS-24L-4F-UNV-30K8-CXX-SA-ALBMR2LR / 4SQ B3 S11G20 S CXX AB 4BC	20' POLE ON 2.5' BASE	LSI INDUSTRIES, INC.

1	9/22/25		REVISED PER CITY COMMENTS	JB	NO
REV	DATE		DESCRIPTION	DR	CX

<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> PROJECT NO. </div> <div style="margin-left: 10px;"> 96159-01 </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> DRAWING </div> <div style="margin-left: 10px;"> DR </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> JUNCTION </div> <div style="margin-left: 10px;"> JB </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> FIELD </div> <div style="margin-left: 10px;"> FB </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> CAD FILE </div> <div style="margin-left: 10px;"> 96159-01 DESIGN_LAYOUT </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> SCALE </div> <div style="margin-left: 10px;"> L-01 </div> </div>
	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> CHECKED </div> <div style="margin-left: 10px;"> CK </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> NOTED </div> <div style="margin-left: 10px;"> NG </div> </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> DATE </div> <div style="margin-left: 10px;"> CADFILE </div> </div>		

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	EPSC	
—	—	—	CONSTRUCTION ENTRANCE DETAIL	DRAWING NO.	E-1	
—	—	—		DATE:	01/08	PAGE: 1
—	—	—				
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NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	EPSC	
-	-	-	STONE & BLOCK GRATE INLET PROTECTION DETAILS	DRAWING NO.	E-2	
-	-	-		DATE:	01/09	PAGE: 1
-	-	-				
-	-	-				
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NO.	REVISION	DATE	City of Concord Engineering Services Division <div style="text-align: center; font-size: 2em; font-weight: bold;">SAWCUT REQUIREMENTS</div>	SECTION:	SITE/STREET
1	DRAWING NO.	11.11		DRAWING NO.	R-12
2	MULTIPLE	12.15		DATE:	12/08
--	--	--		PAGE:	1
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- NOTES:**
1. BEGIN AT THE POINT OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH, BACKFILL, AND COMPACT TRENCH AFTER STAPLING.
 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE THERE IS NO STRIP WIDTHS ARE REQUIRED.
 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.
 5. BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

BLANKET SLOPE PROTECTION

EROSION CONTROL FOR SLOPE GREATER THAN 5' IN HEIGHT

NOT TO SCALE

1. SILT SOCK SHALL BE FILTREXXTM SILTOSXXTM OR APPROVED EQUIVALENT
2. SEE MANUFACTURER FOR SOCK SIZE AND COMPOST FILL REQUIREMENTS.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.

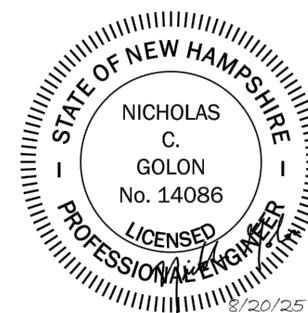
SILT SOCK

NOT TO SCALE

- ITEM 641 6" LOAM
SEED (SEE EROSION CONTROL NOTES)
ITEM 642 LIMESTONE
ITEM 643.11 FERTILIZER
ITEM 645.101 MULCH

LOAM & SEED DETAIL

NOT TO SCALE



SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

DETAILS

UNITIL WEST CONCORD SUBSTATION

1-7 MCGUIRE STREET, CONCORD, NH 03301

OWNED BY/PREPARED FOR
UNITIL ENERGY SYSTEMS, INC.

6 LIBERTY LANE WEST, HAMPTON, NH 03824

APPLICANT

UNITIL ENERGY SYSTEMS, INC.
88 ENERGY WAY, EXETER, NH 03000

30 ENERGY WAY, EXETER, NH 03833

SCALE: NOT TO SCALE

AUGUST 20, 2025



- Civil Engineers
- Structural Engineers
- Traffic Engineers
- Land Surveyors
- Landscape Architects
- Scientists

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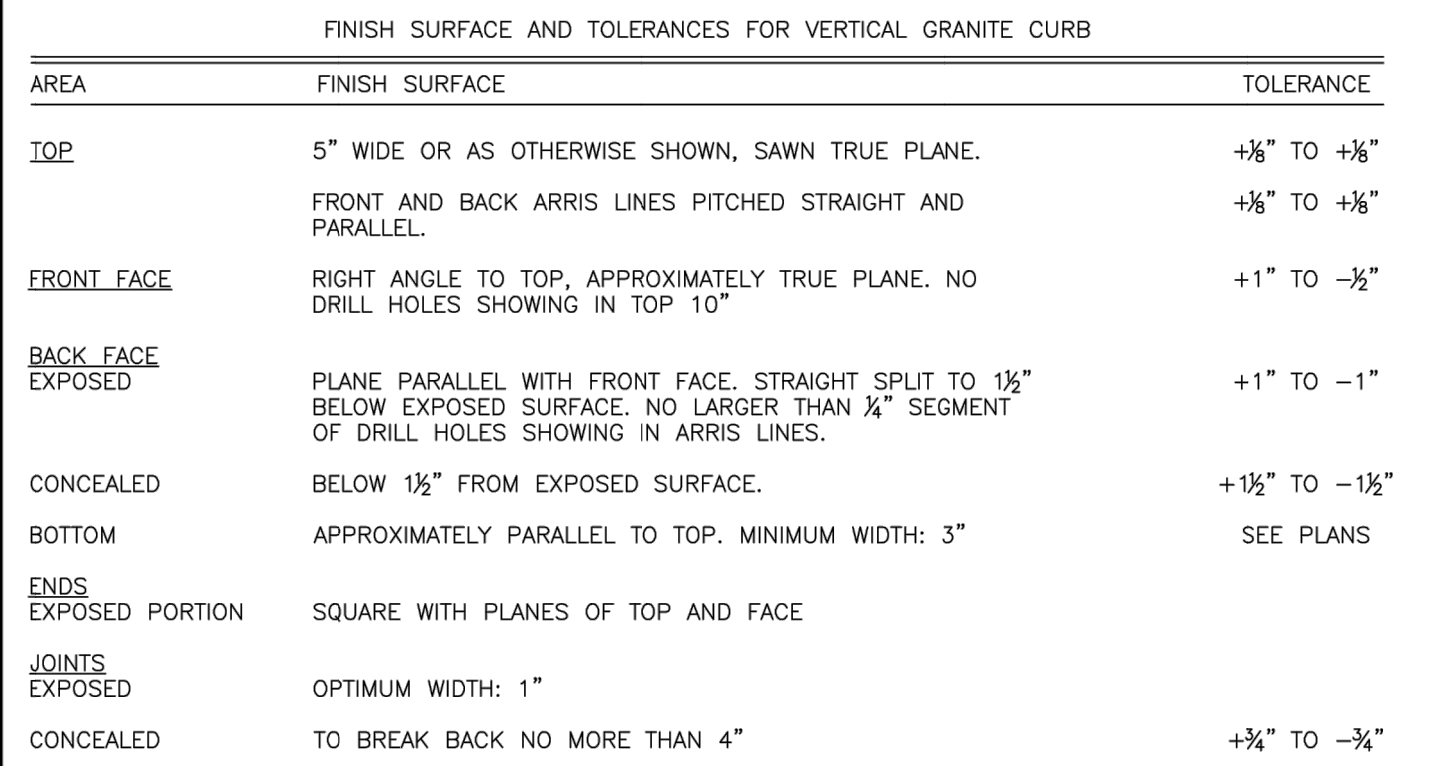
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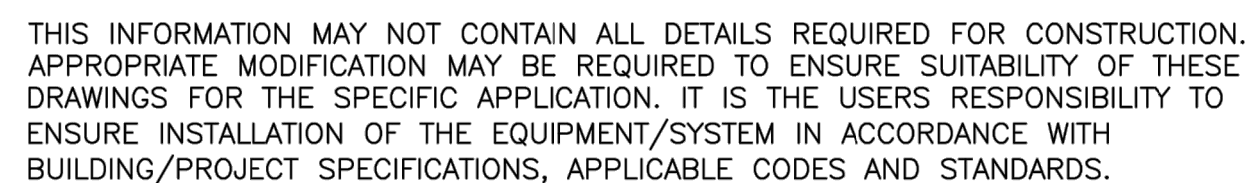
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FILE	96159-01	DR	FB	96159-01 COVER & DETAILS	D-01
		CK	CADFILE		



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: ROADWAY
-	-	-	TYPICAL LIGHT POLE AND FOUNDATION	DRAWING NO. M-13
-	-	-		DATE: 01/14 PAGE: 1
-	-	-		
-	-	-		
-	-	-		



The diagram illustrates the installation of a sign post. A vertical post is shown with a sign attached at the top. The sign is 1/4" thick and is secured with bolts. The distance from the edge of the sign to the edge of the pavement is 6' MIN. The post is 60" MIN high. The ground level is indicated by a dashed line. The post is 30" MIN high from the ground level. The post is made of green enamel, 2.5#/FT minimum flanged channel steel. A PVC or steel sleeve is required in paved or concrete locations. The sleeve will be large enough to allow for replacement post.

1/4" BOLT

6' MIN

EDGE OF SIGN TO EDGE OF PAVEMENT

VARIES

60" MIN

E.O.P.

GROUND

30" MIN

NOTES:

1. POSTS SHALL BE PLUMB. ANY POST BENT OR OTHERWISE DAMAGED SHALL BE REMOVED AND REPLACED. CUTTING THE DAMAGED PORTION OUT AND SPLICING THE POST TOGETHER IS NOT ACCEPTABLE.
2. WHEN POSTS ARE SET, THE HOLES SHALL BE DUG TO THE PROPER DEPTH. AFTER INSERTING POSTS, THE HOLES SHALL BE BACK FILLED WITH SUITABLE MATERIAL IN LAYERS NOT EXCEEDING 6" DEEP WHEN COMPACTED; CARE BEING TAKEN TO PRESERVE THE ALIGNMENT OF THE POST.
3. WHEN POSTS ARE DRIVEN, A SUITABLE DRIVING CAP SHALL BE USED. AFTER DRIVING, THE TOP OF THE POST SHALL HAVE THE SAME CROSS-SECTIONAL DIMENSION AS THE BODY OF THE POST. BATTERED HEADS WILL NOT BE ACCEPTED.
4. POSTS SHALL NOT BE DRIVEN WITH THE SIGN ATTACHED TO THE POST.
5. SIGNS SHALL BE ERRECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
6. WHEN SIGN IS IN PLACE, NO PART OF THE POST SHALL EXTEND ABOVE SIGN.

GREEN ENAMEL, 2.5#/FT
MINIMUM FLANGED
CHANNEL STEEL POST

PVC OR STEEL SLEEVE
REQUIRED IN PAVED OR
CONCRETE LOCATIONS

SLEEVE WILL BE LARGE
ENOUGH TO ALLOW FOR
REPLACEMENT POST

CROSS COUNTRY UNDER ROADWAYS

MOUND BACKFILL

ROADWAY RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD R-15

TRENCH BACKFILL TO BE 6" MINUS CLEAN GRANULAR FILL, FREE OF STONES OR PAVEMENT DEBRIS AND COMPACTED IN 12" MAX LIFTS TO 95% MIN

4' MIN COVER

12" MIN

6" MIN

SAND

STORM DRAIN

3/4" (NO. 67) CRUSHED STONE BEDDING TO 1/2 OD FOR SMALL DIAMETER PIPE (ID<24"), AND TOP OF PIPE FOR LARGE DIAMETER PIPE (ID≥24")

Diagram illustrating the cross-section detail of a standard parking lot or roadway section. The diagram shows the following components and dimensions:

- SLOPE AND MATERIAL VARIES SEE SITE AND GRADING PLANS** (indicated by a line pointing to the left side of the section).
- FINISH GROUND** (indicated by a line pointing to the top surface of the existing pavement).
- SWEEP AND CLEAN EXISTING PAVEMENT. APPLY TACK COAT AT 0.25 GAL./SY. TACK COAT TO BE APPLIED TO BINDER COURSE PRIOR TO PLACEMENT OF THE BERM.** (indicated by a line pointing to the existing pavement surface).
- 12"** (dimension for the width of the existing pavement).
- 12"** (dimension for the width of the new pavement section).
- CURB** (indicated by a line pointing to the vertical curb structure).
- 6" CURB REVEAL** (dimension for the height of the curb reveal).
- BINDER COURSE BITUMINOUS CONCRETE PAVEMENT ITEM 403.1** (indicated by a line pointing to the top layer of the new pavement).
- BITUMINOUS CONCRETE PAVEMENT DENSE MIX** (indicated by a line pointing to the middle layer of the new pavement).
- WEARING COURSE BITUMINOUS CONCRETE PAVEMENT ITEM 403.1** (indicated by a line pointing to the bottom layer of the new pavement).
- ASPHALT PAVEMENT** (indicated by a line pointing to the existing pavement surface).
- CRUSHED GRAVEL ITEM 304.3** (indicated by a line pointing to the gravel layer above the asphalt pavement).
- BANK RUN GRAVEL ITEM 304.2** (indicated by a line pointing to the gravel layer below the crushed gravel).
- STANDARD PARKING LOT OR ROADWAY SECTION (SEE DETAIL)** (indicated by a line pointing to the right side of the section).

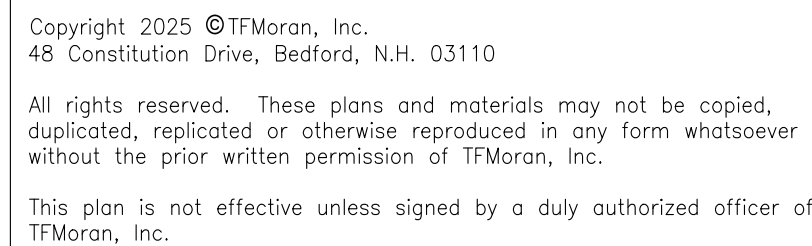
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 **Unitil**

SITE DEVELOPMENT PLANS

TAX MAP 494Z LOT 44

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SCALE: NTS **AUGUST 20, 2025**

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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TFM-1

96159-01

DR
CK

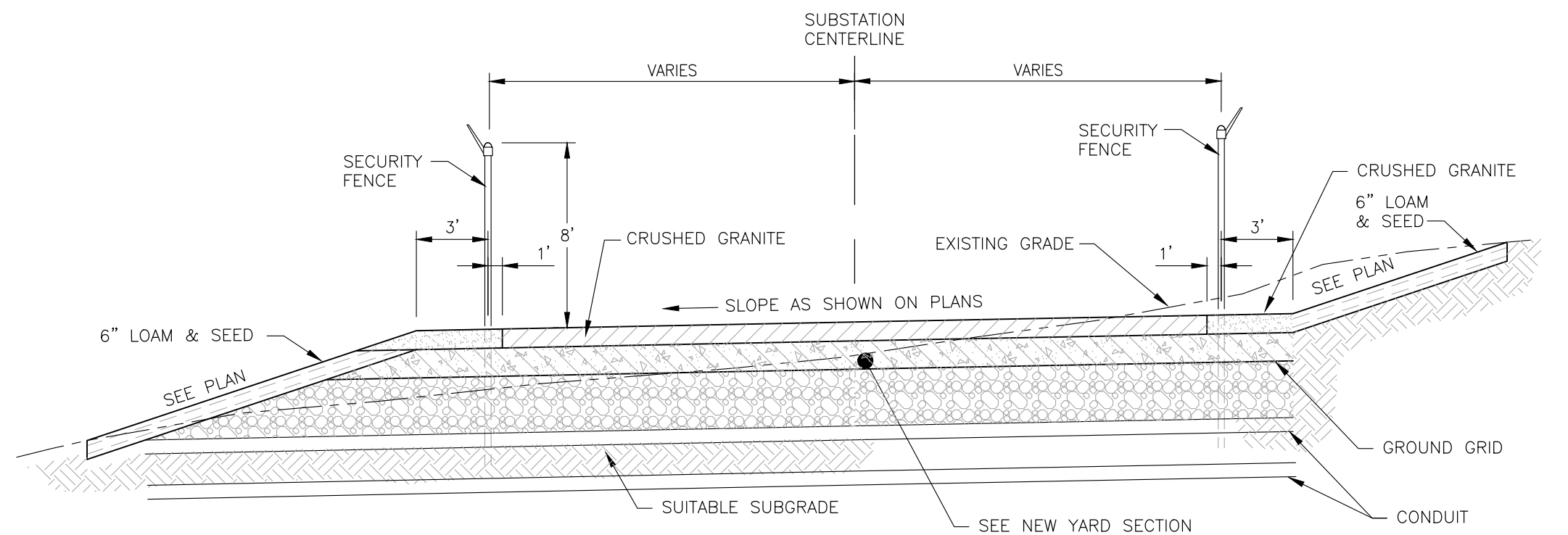
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96159-01-COVER & DETAILS

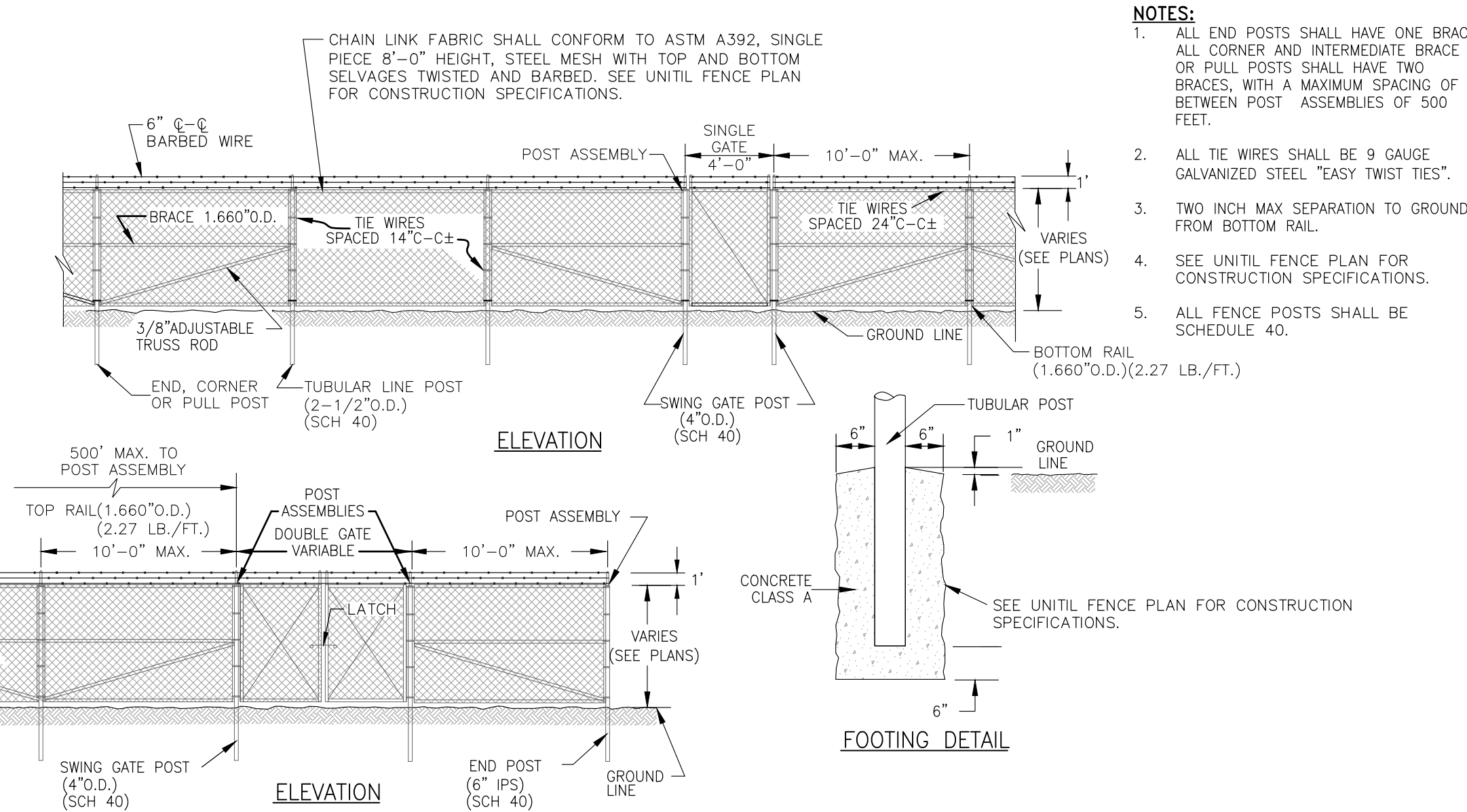
D-02

D-03



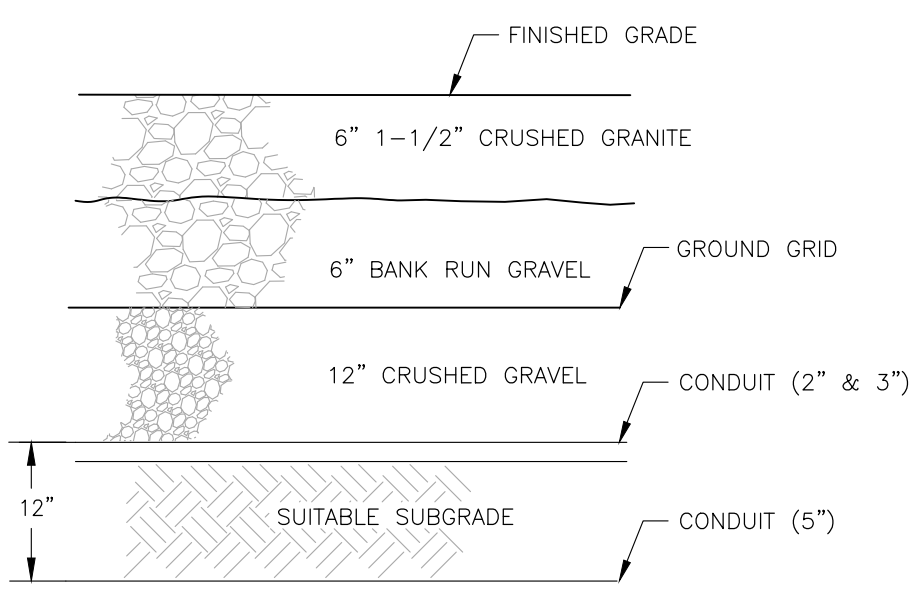
TYPICAL SUBSTATION CROSS SECTION

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SECURITY FENCE DETAIL

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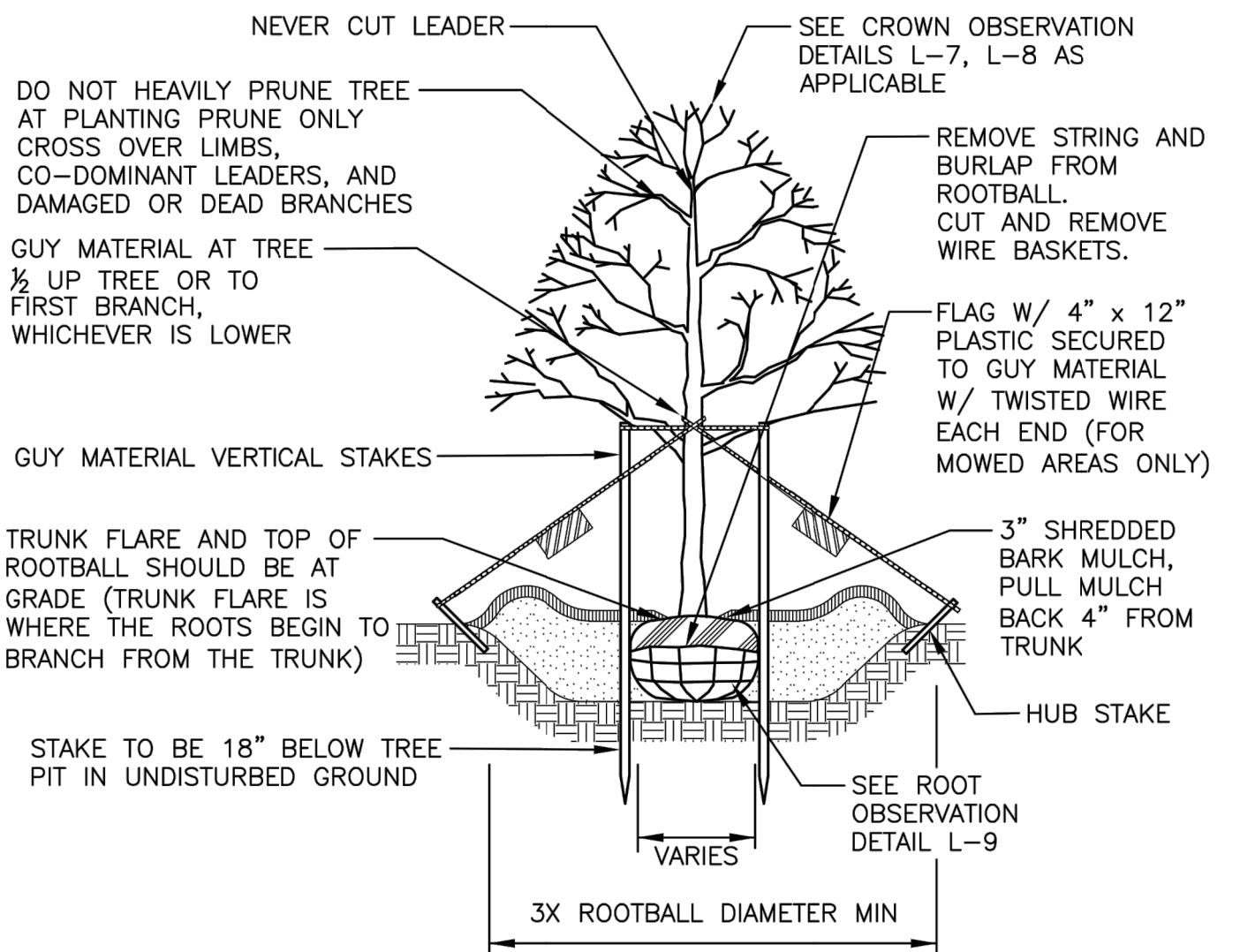
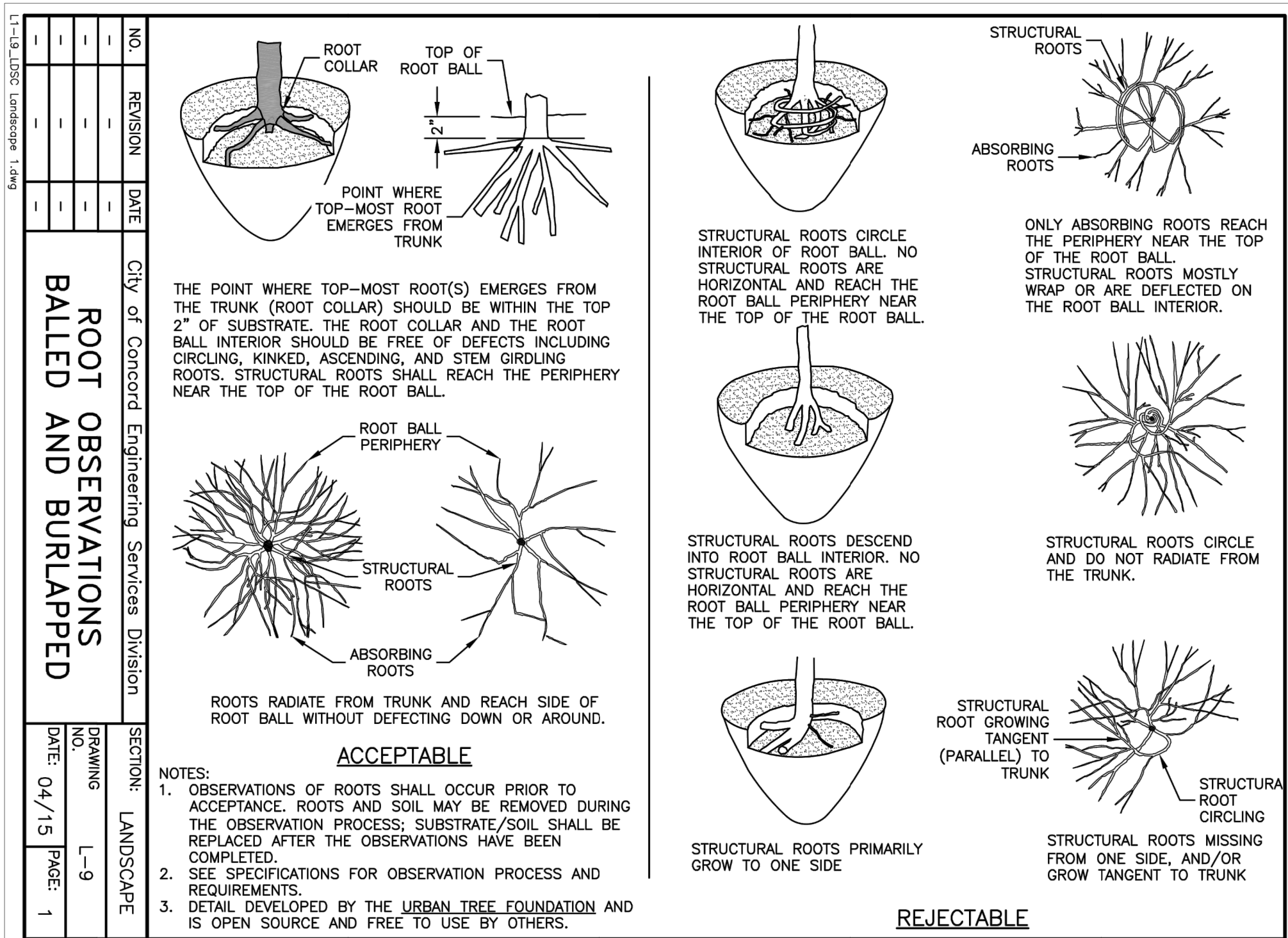
TYPICAL NEW YARD AREA SECTION

- NOTE:
1. FINAL DESIGN IS TO BE COORDINATED WITH THE OWNER.
 2. CONTRACTOR TO COORDINATE LOCATION OF GROUNDING GRID WITH UNITIL.
 3. SAMPLE OF CRUSHED GRANITE SHALL BE PROVIDED BY CONTRACTOR. UNITIL WILL HAVE SAMPLE TESTED TO VERIFY RESISTANCE MEETS SPECIFICATIONS PRIOR TO DELIVERY & INSTALLATION.

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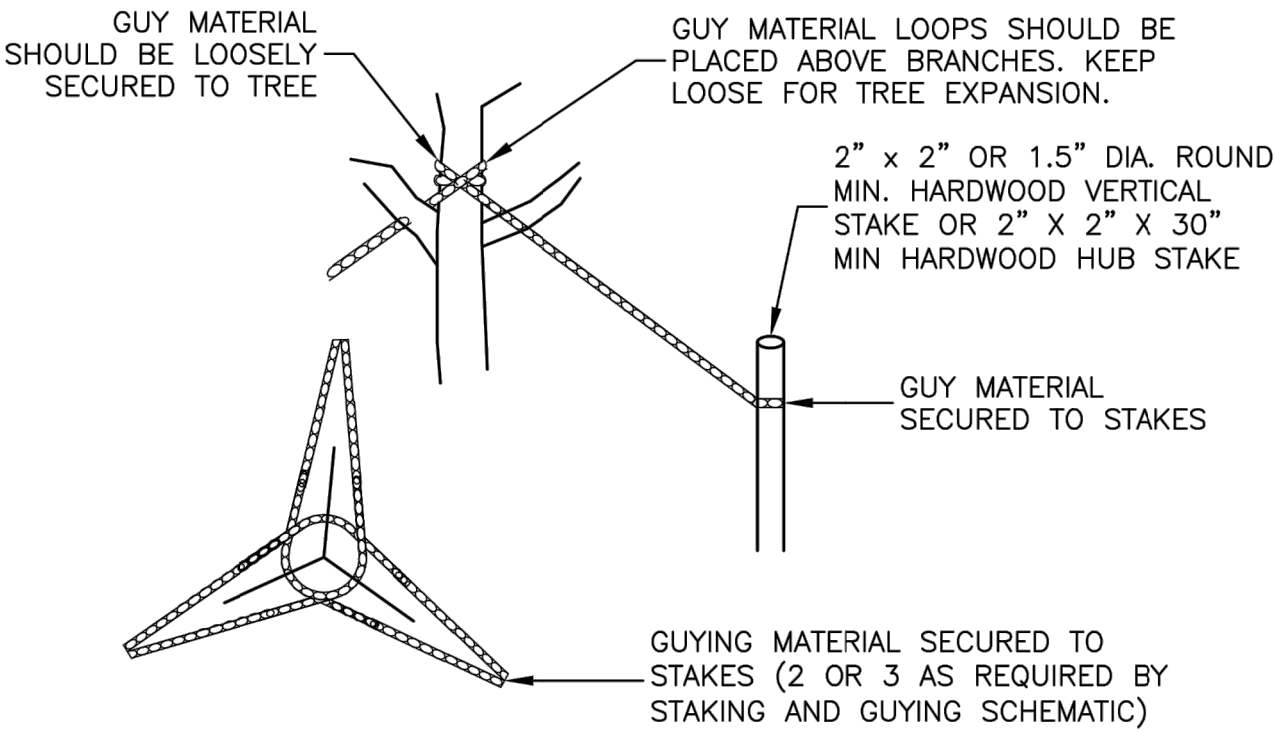
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- NOTES:
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
 4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
 5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 10 FEET FROM THE EDGE OF THE CITY SIDEWALK.
 7. ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	LANDSCAPE
1	NOTES	4/15		DRAWING NO.	L-1
-	-	-	DECIDUOUS TREE PLANTING	DATE: 12/08	PAGE: 1
-	-	-			
-	-	-			

L1-L9_LDSC Landscape



NOTE:
ONLY USE PLASTIC CHAINLOCK (LANDSCAPE QUALITY AND SUITABLE FOR GUYING TREES) OR EQUIVALENT GUYING MATERIAL.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	LANDSCAPE
-	-	-		DRAWING NO.	L-2
-	-	-	DECIDUOUS TREE - GUYING & STAKING	DATE: 12/08	PAGE: 1
-	-	-			
-	-	-			

L1-L9_LDSC Landscape



SITE DEVELOPMENT PLANS

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