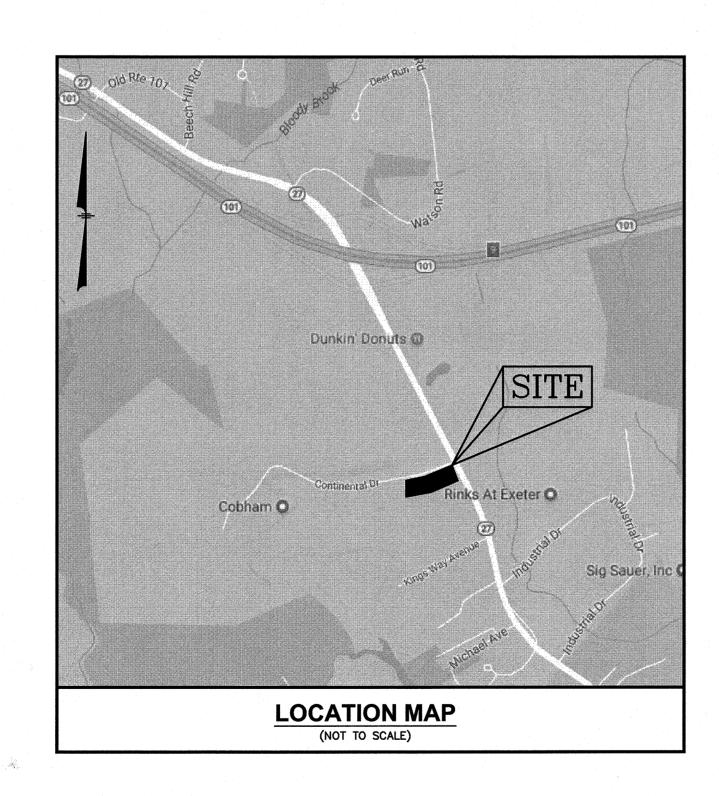
PROPOSED SITE RE-DEVELOPMENT PLANS for PROPOSED RETAIL MOTOR FUEL OUTLET ASSESSORS MAP 47 - PROPOSED LOT 1-2 158 EPPING ROAD EXETER, NEW HAMPSHIRE 03833

Prepared for:
NOURIA ENERGY CORPORATION
326 CLARK STREET
WORCESTER, MA 01606

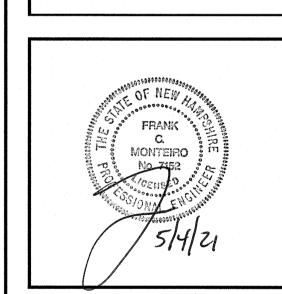


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4.	SITE PLAN
5.	GRADING & DRAINAGE PLAN
6.	UTILITY PLAN
7.	EROSION & SEDIMENTATION CONTROL PLAN
8.	LANDSCAPE PLAN
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	FUELING CANOPY ELEVATIONS (A-204)



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CORPORATION
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WORCESTER, MA 0160

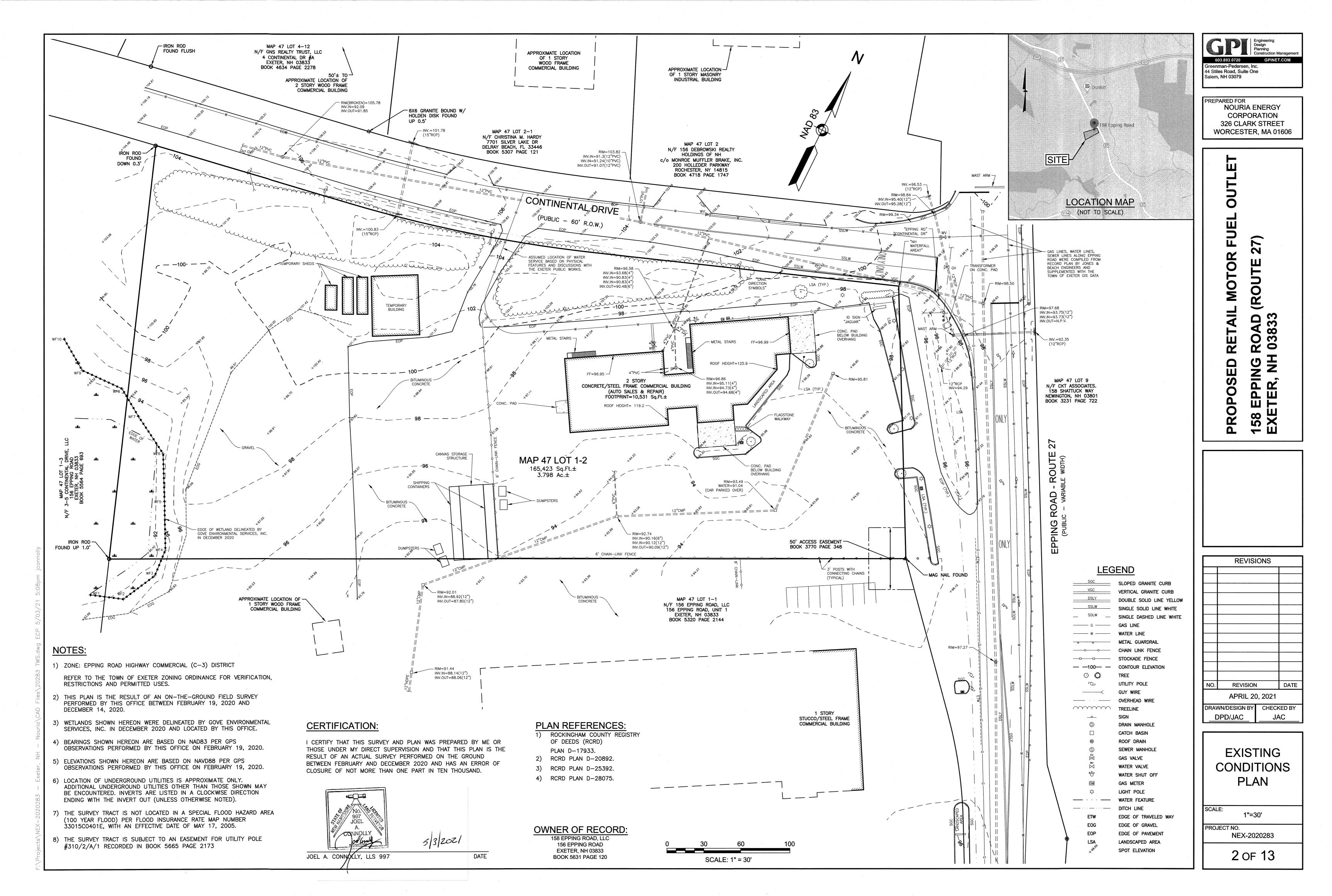
PROPOSED RETAIL MOTOR FUEL OUT 158 EPPING ROAD (ROUTE 27) EXETER, NH 03833

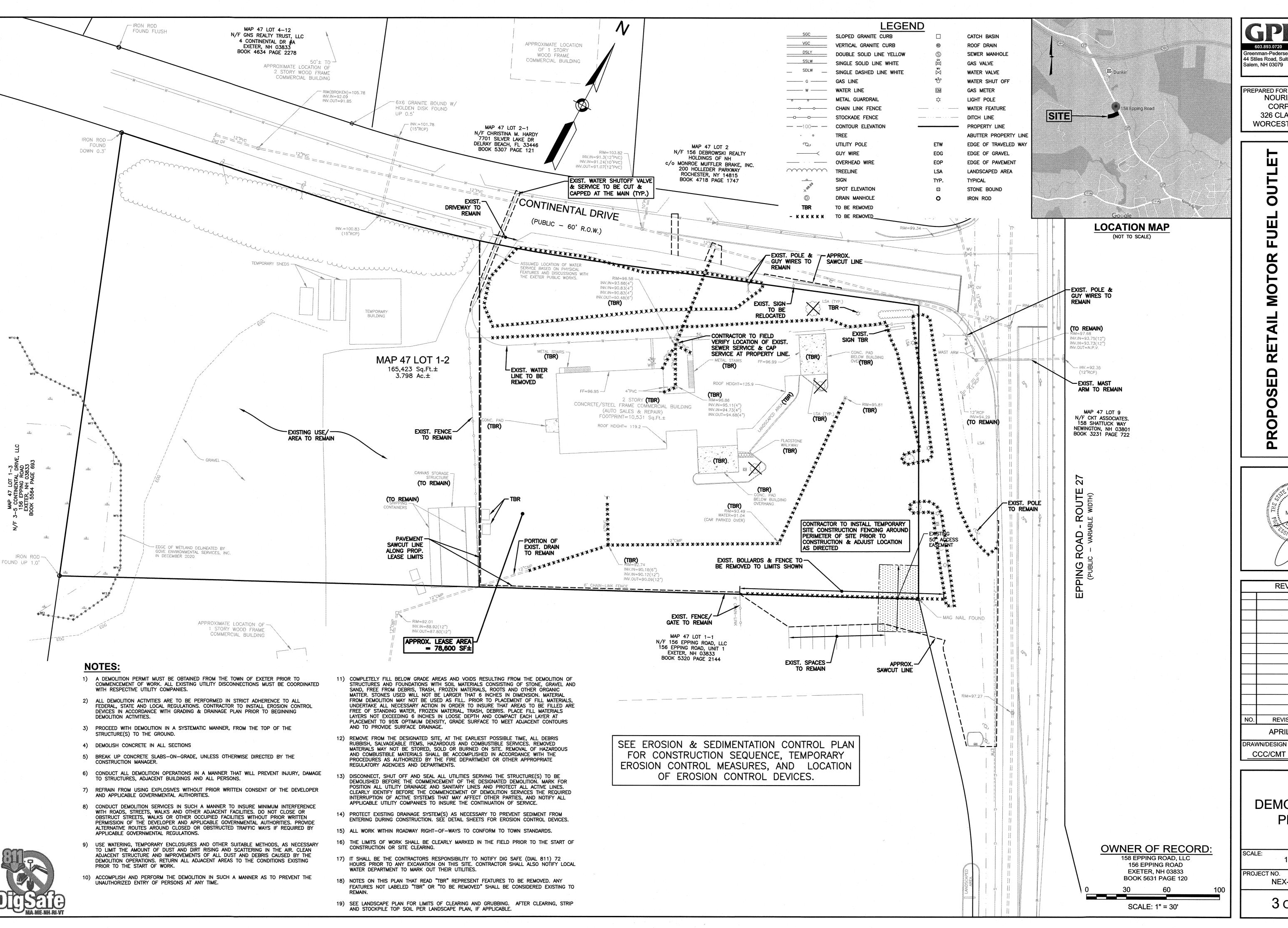


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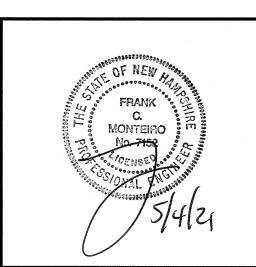




603.893.0720 Greenman-Pedersen, Inc. 44 Stiles Road, Suite One

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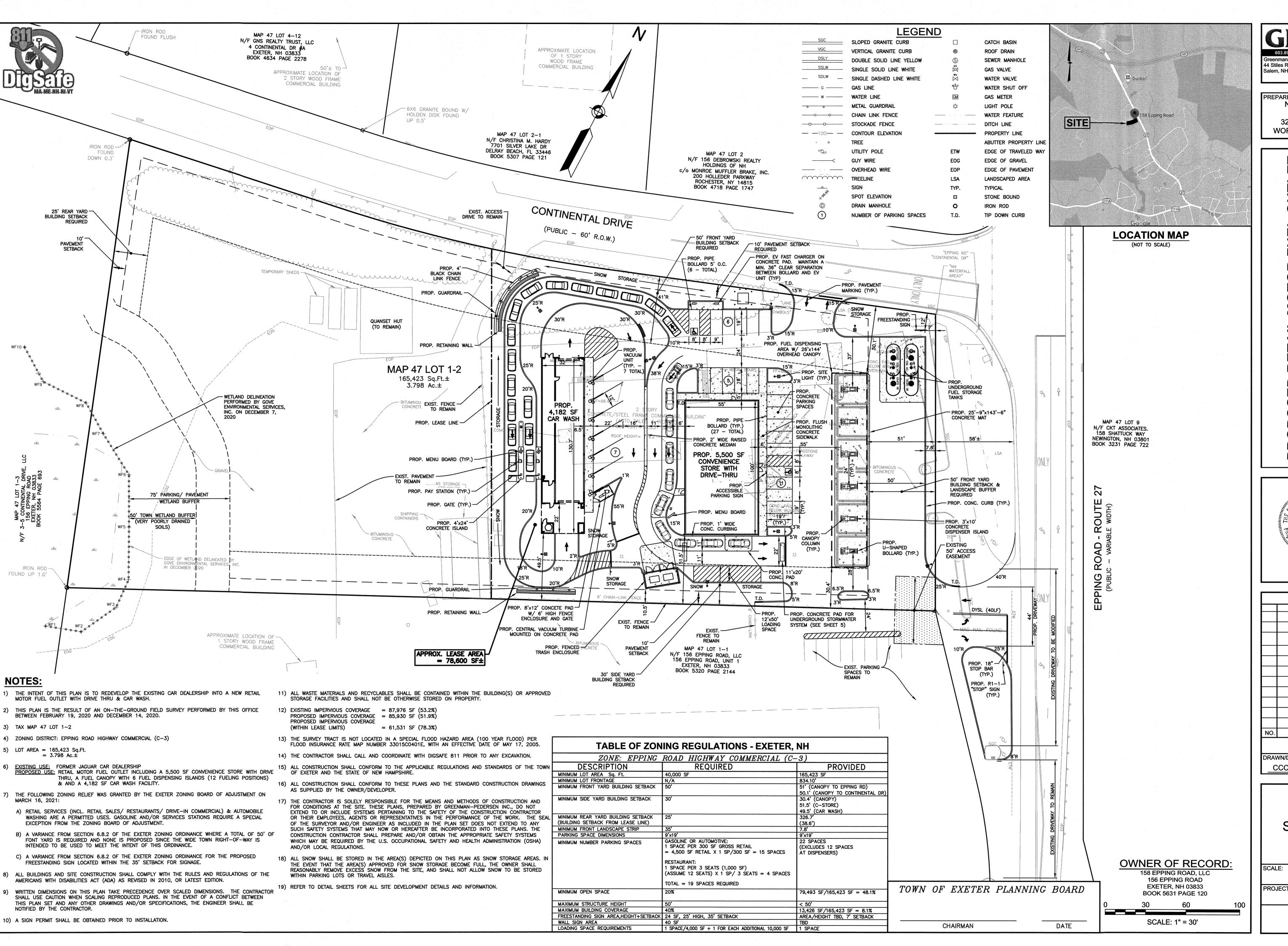
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DEMOLITION PLAN

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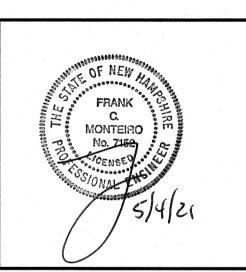
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Engineering
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Construction Managem
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44 Stiles Road, Suite One
Salem, NH 03079

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SED RETAIL MOTOR FUEL OUTLING ROAD (ROUTE 27)

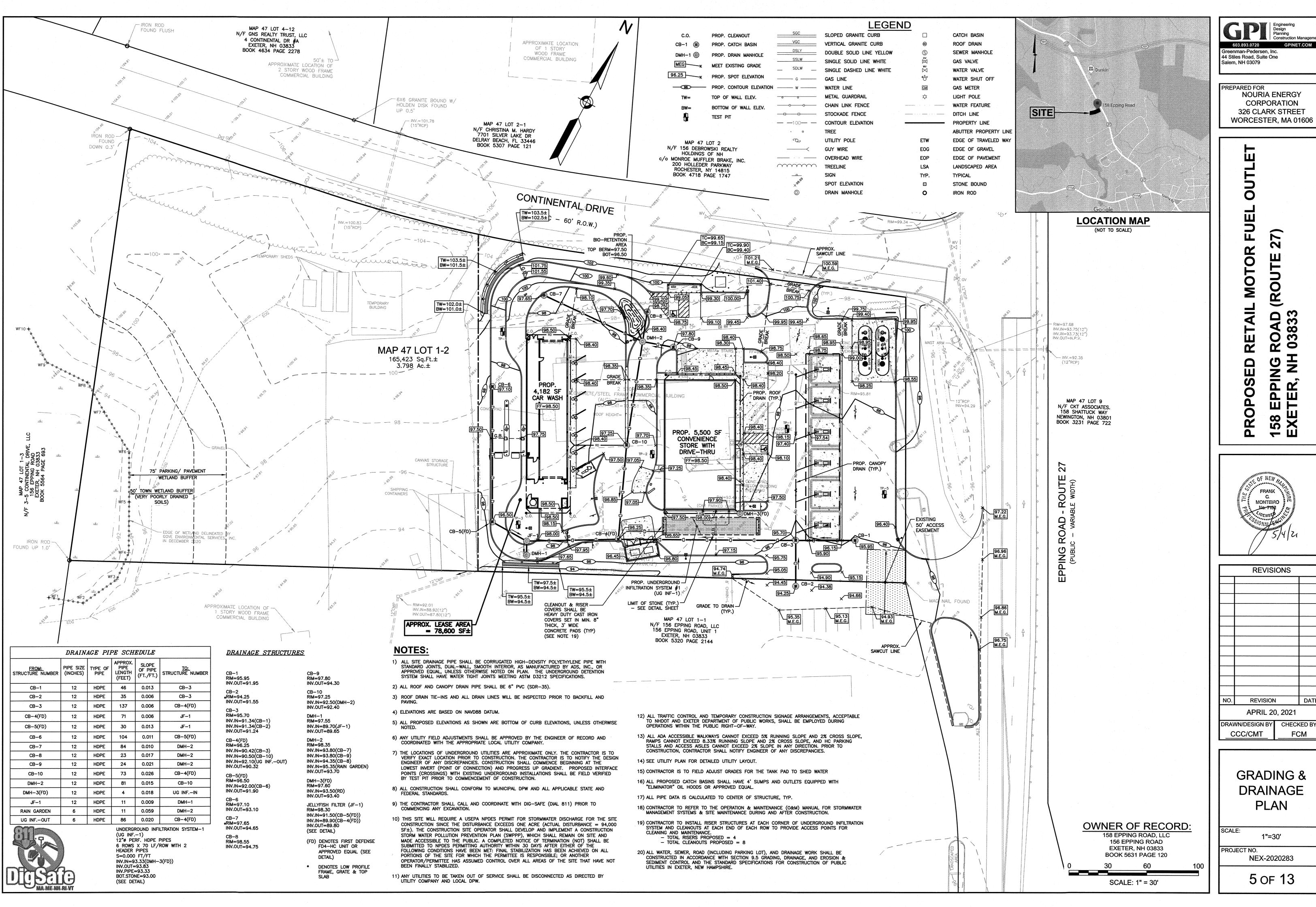


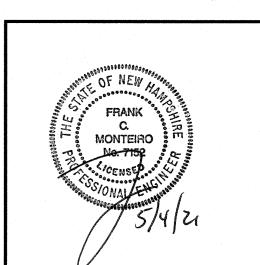
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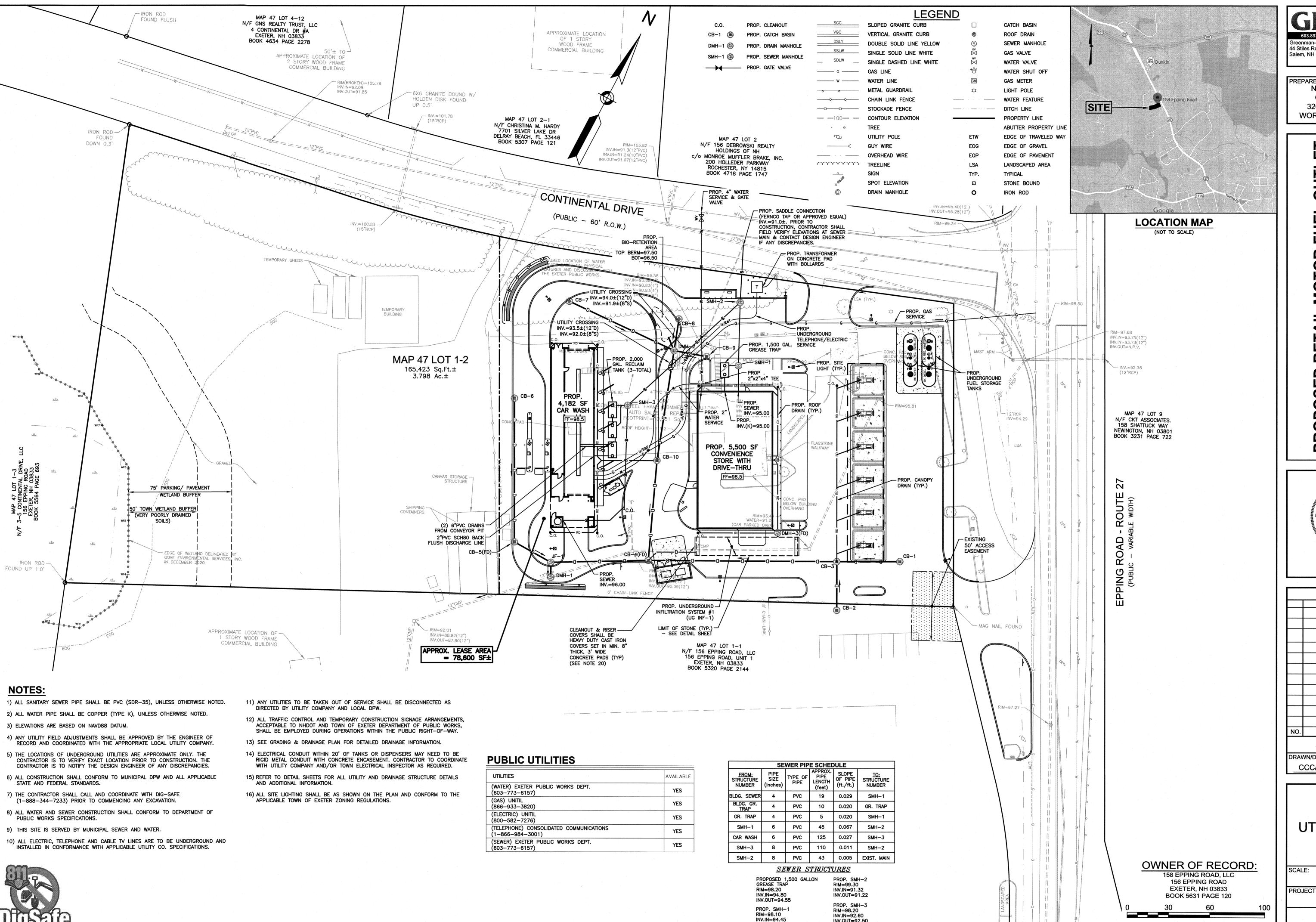
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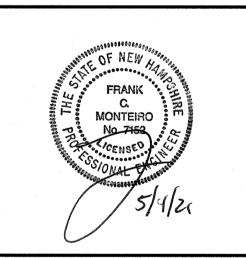


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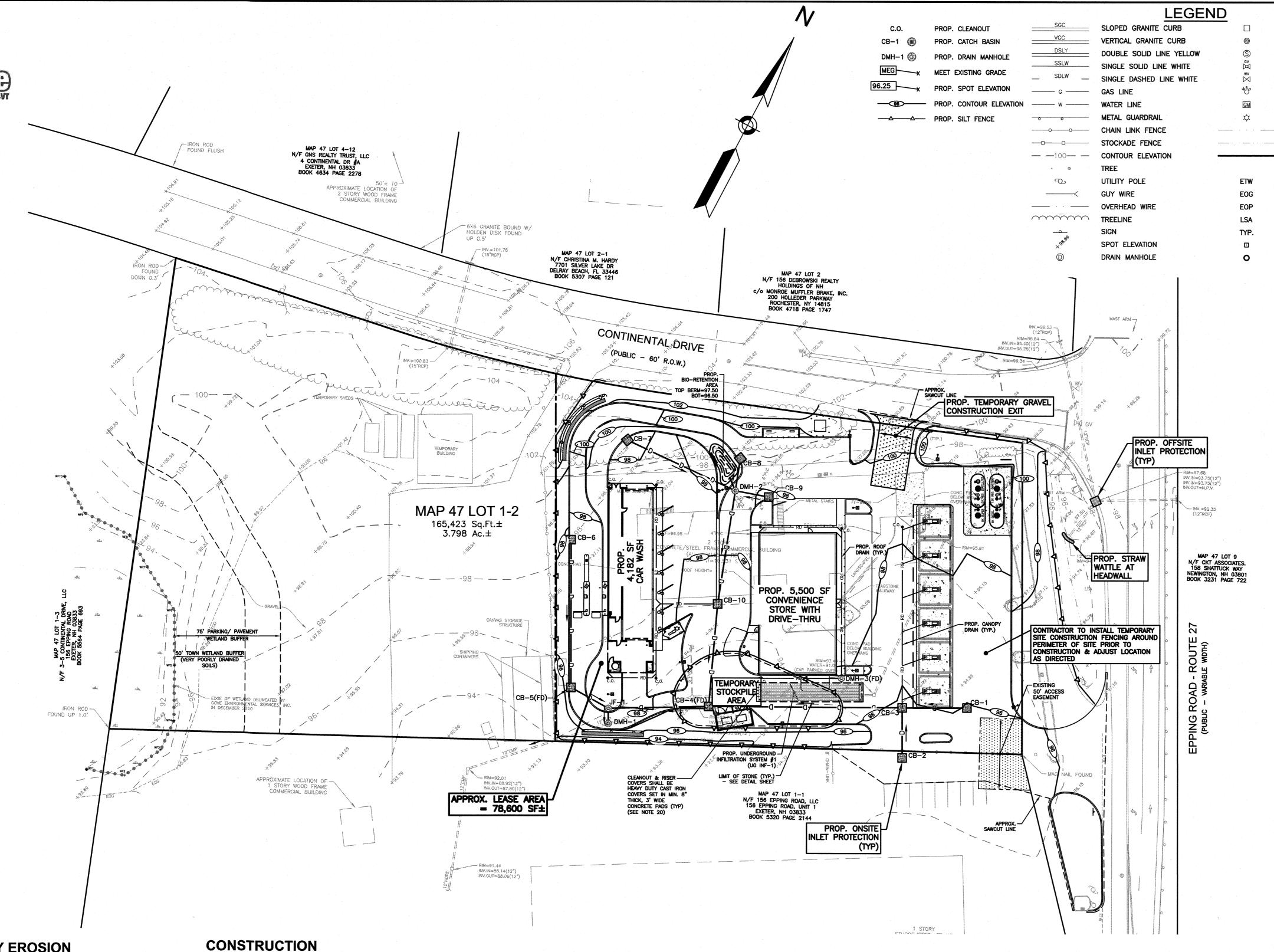
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SCALE: 1" = 30'

NEX-2020283

6 OF 13



TEMPORARY EROSION **CONTROL MEASURES:**

- 1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL
- 2. HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3. BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS,
- AND SHALL BE DRY. NO SALT HAY SHALL BE USED. 4. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5. STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 6. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED AND SEEDING AS SPECIFIED.
- 7. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 8. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 9. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
- 10. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 11. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
- 12. JUTE MATTING OR APPROVED EQUIVALENT SHALL BE PROVIDED ON ALL SLOPES GREATER THAN 3:1.

SEQUENCE NOTES:

- 1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY ON-SITE CONSTRUCTION AS SHOWN. ADDITIONAL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL.
- 2. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET.
- 3. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- 4. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO
- 5. CONSTRUCT SWALES & STABILIZE PRIOR TO DIRECTING ANY RUNOFF TO
- 6. CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION. STABILIZE ROADS, PARKING LOTS AND CUT/FILL SLOPES WITHIN 72-HOURS OF ACHIEVING FINISH GRADES.
- 7. INSTALL UNDERGROUND UTILITIES AND DRAINAGE SYSTEM. NO STORMWATER FLOWS ARE TO BE DIRECTED TO THE INFILTRATION SYSTEMS UNTIL ALL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- 8. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED WITHIN 72-HOURS OF ACHIEVING FINISHED GRADES.
- 9. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING. AT A MINIMUM, INSPECT EROSION CONTROLS WEEKLY AND AFTER EVERY 1/2" OF
- 10. BEGIN EXCAVATION FOR CONSTRUCTION OF BUILDINGS.
- 11. FINISH PAVING ALL ROADWAYS AND DRIVEWAYS.

- 12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS,
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES. 14. APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE

RATES OUTLINED BELOW: <u>Limestone</u>: 138 lbs./1,000 square feet. <u>Fertilizer</u>: 13.8 lbs./1,000 SF hay mulch approximately 3 tons/acre unless erosion control matting is used. Permanent Seed Mix lbs./acre

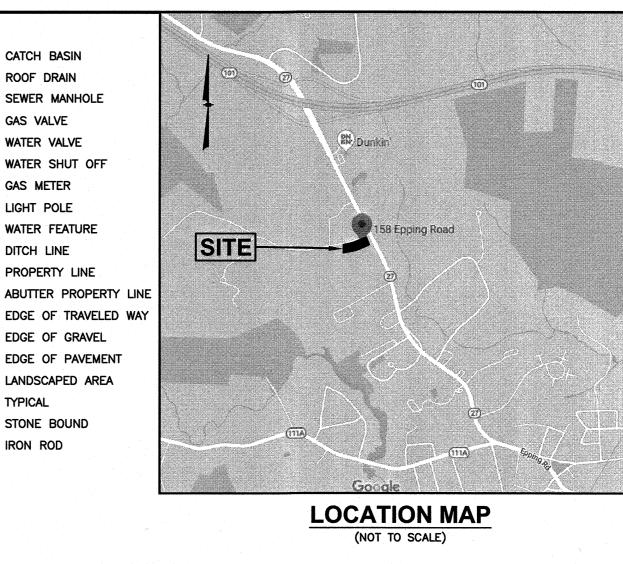
Creeping Red Fescue Tall Fescue Redtop TOTAL 42 Temporary Seed Mix: lbs./acre Winter Rye (Aug. 15-Sept. 15) 112

- Oats (No later than May 15) 15. NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE HAY MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 2 TONS PER ACRE.
- 16. THE CONTRACTOR AND DEVELOPER MUST MANAGE THE PROJECT TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 17. FUGITIVE DUST MUST BE CONTROLLED IN ACCORDANCE WITH ENV-A

EROSION CONTROL NOTES:

- 1. THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE NH STORMWATER MANUAL, VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008, OR LATEST EDITION.
- 2. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED: THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AS APPROVED BY THE ENGINEER. LAND SHOULD NOT BE LEFT EXPOSED DURING THE
- 3. LIMIT OF MAXIMUM AREA OF EXPOSED SOIL AT ANY ONE TIME TO LESS THAN 5 ACRES. THE EXPOSED AREA THAT IS BEING ACTIVELY WORKED DURING WINTER IS TO BE LESS THAN 3 ACRES DURING THE WINTER
- 4. ALL PERMANENT STORM WATER STRUCTURES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED: A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE B) A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED. C) A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED. D) OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY
- 5. SILT FENCE SHALL BE INSTALLED AND MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT. WHERE POSSIBLE, NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER. SILT FENCE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.

- 6. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISHED GRADED, WITH NO FURTHER CONSTRUCTION TO TAKE PLACE, SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS AFTER FINAL GRADING. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. THE SEED MIX SHALL BE AS DESIGNATED BELOW.
- 7. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. THE MAXIMUM LENGTH OF TIME FOR THE EXPOSURE OF DISTURBED SOILS SHALL BE 45 DAYS. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL
- 8. DURING GRADING OPERATIONS INSTALL HAY BALE BARRIERS ALONG TOE OF SLOPE OF FILL AREAS WHERE SHOWN. BARRIERS ARE TO BE MAINTAINED UNTIL DISTURBED AREAS ARE PAVED OR GRASSED.
- 9. THE FILL MATERIAL SHALL BE OF APPROVED SOIL TYPE FREE FROM STUMPS, ROOTS, WOOD, ETC. TO BE PLACED IN 12" LIFTS OR AS SPECIFIED. BULLDOZERS, TRUCKS, TRACTORS, OR ROLLERS MAY BE USED FOR COMPACTION BY ROUTING THE EQUIPMENT TO ALL AREAS OR EACH
- 10. AVOID THE USE OF FUTURE OPEN SPACES (LOAM & SEED) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ROADS.



CATCH BASIN ROOF DRAIN

SEWER MANHOLE

GAS VALVE

GAS METER

LIGHT POLE

DITCH LINE

WATER FEATURE

PROPERTY LINE

EDGE OF GRAVEL

EDGE OF PAVEMENT

LANDSCAPED AREA

STONE BOUND

TYPICAL

WATER VALVE WATER SHUT OFF

WINTER STABILIZATION NOTES:

MAINTENANCE REQUIREMENTS: MAINTENANCE MEASURES SHOULD CONTINUE AS NEEDED THROUGHOUT CONSTRUCTION, INCLUDING THE OVER-WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT AN INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR

CONTINUING FUNCTION. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF VEGETATION COVER, AND REPAIR ANY DAMAGE AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH). SPECIFICATIONS:

TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15TH THROUGH

- 1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO ONE ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. SUBJECT TO APPLICABLE REGULATIONS, THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF ACTIVITIES ARE CONDUCTED ACCORDING TO A WINTER CONSTRUCTION PLAN, DEVELOPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW HAMPSHIRE OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT
- INTERNATIONAL, INC. 2. STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST
- FOR MORE THAN 5 DAYS: A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH. OR WHICH ARE DISTURBED AFTER OCTOBER 15TH. SHOULD BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (SEE DESCRIPTION OF EROSION CONTROL MIX BERMS FOR MATERIAL SPECIFICATION)
- B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER OOTHAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX. UNI FSS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
- 3. ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15. 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN
- 5. ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE FIBER). 6. STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHOULD BE DONE WITHIN 24 HOURS OF STOCKING, AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED
- (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA. 7. FROZEN MATERIALS, (E.G., FROST LAYER THAT IS REMOVED DURING WINTER CONSTRUCTION). SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION THAT IS AWAY FROM ANY AREA NEEDING TO BE PROTECTED. STOCKPILES OF FROZEN MATERIAL CAN MELT IN THE SPRING AND
- BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO THE HIGH MOISTURE CONTENT IN THE SOIL. 8. INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR
- OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN 9. ALL GRASS-LINED DITCHES AND CHANNELS SHOULD BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY A QUALIFIED PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC. IF A STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS
- REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE. 10. ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15. 11. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED
- WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

EROSION & SEDIMENTATION CONTROL PLAN

REVISION

DRAWN/DESIGN BY

CCC/CMT

SCALE:

PROJECT NO.

APRIL 20, 2021

DATE

CHECKED BY

OWNER OF RECORD: 158 EPPING ROAD, LLC 156 EPPING ROAD **EXETER, NH 03833** BOOK 5631 PAGE 120

SCALE: 1" = 40'

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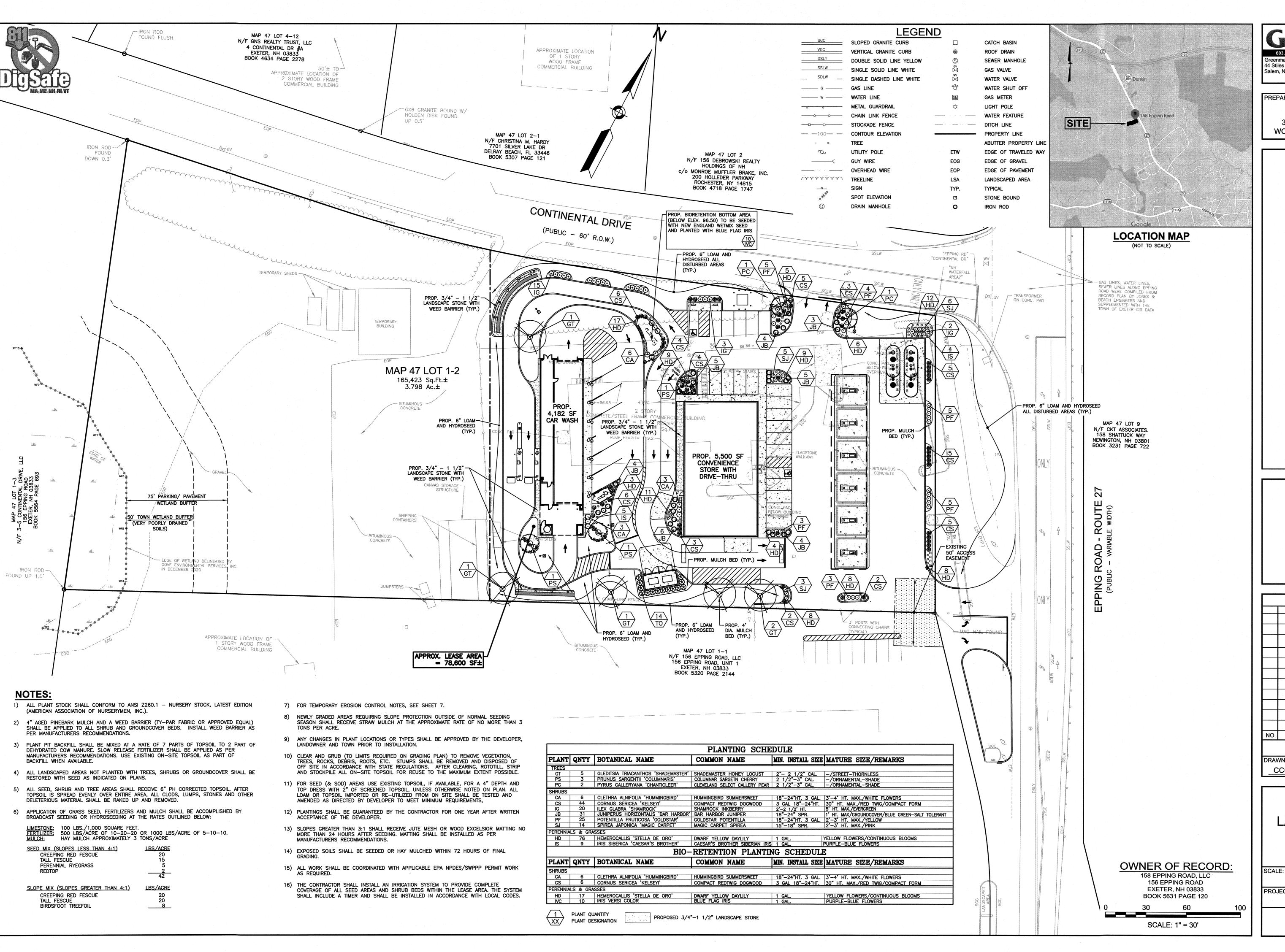
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CORPORATION

WORCESTER, MA 01606

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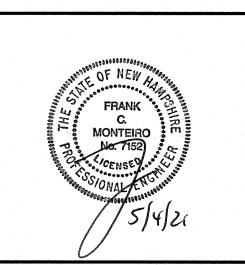
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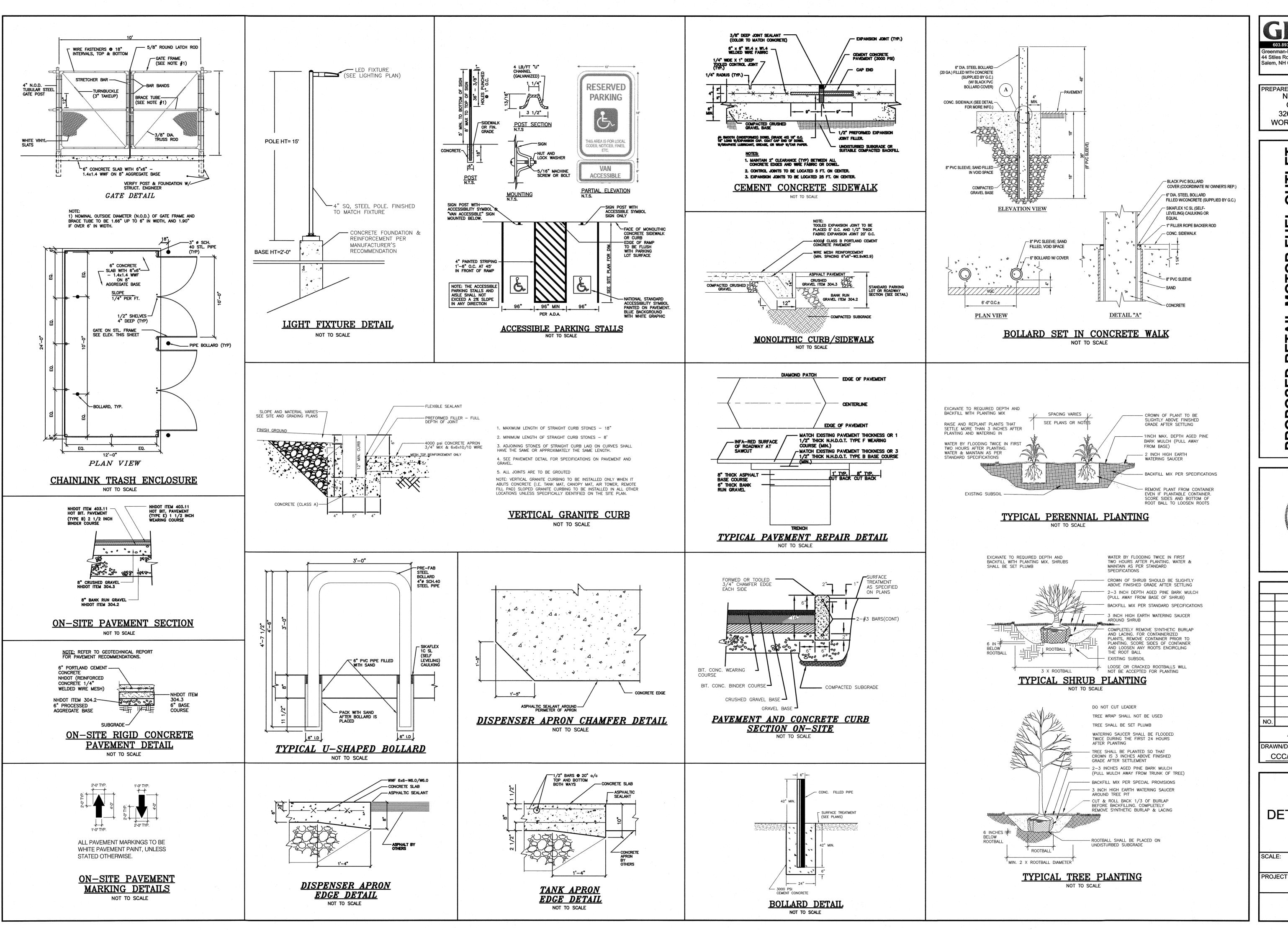
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(ETER, NH 03833



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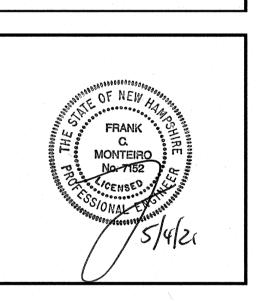




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WORCESTER, MA 01606

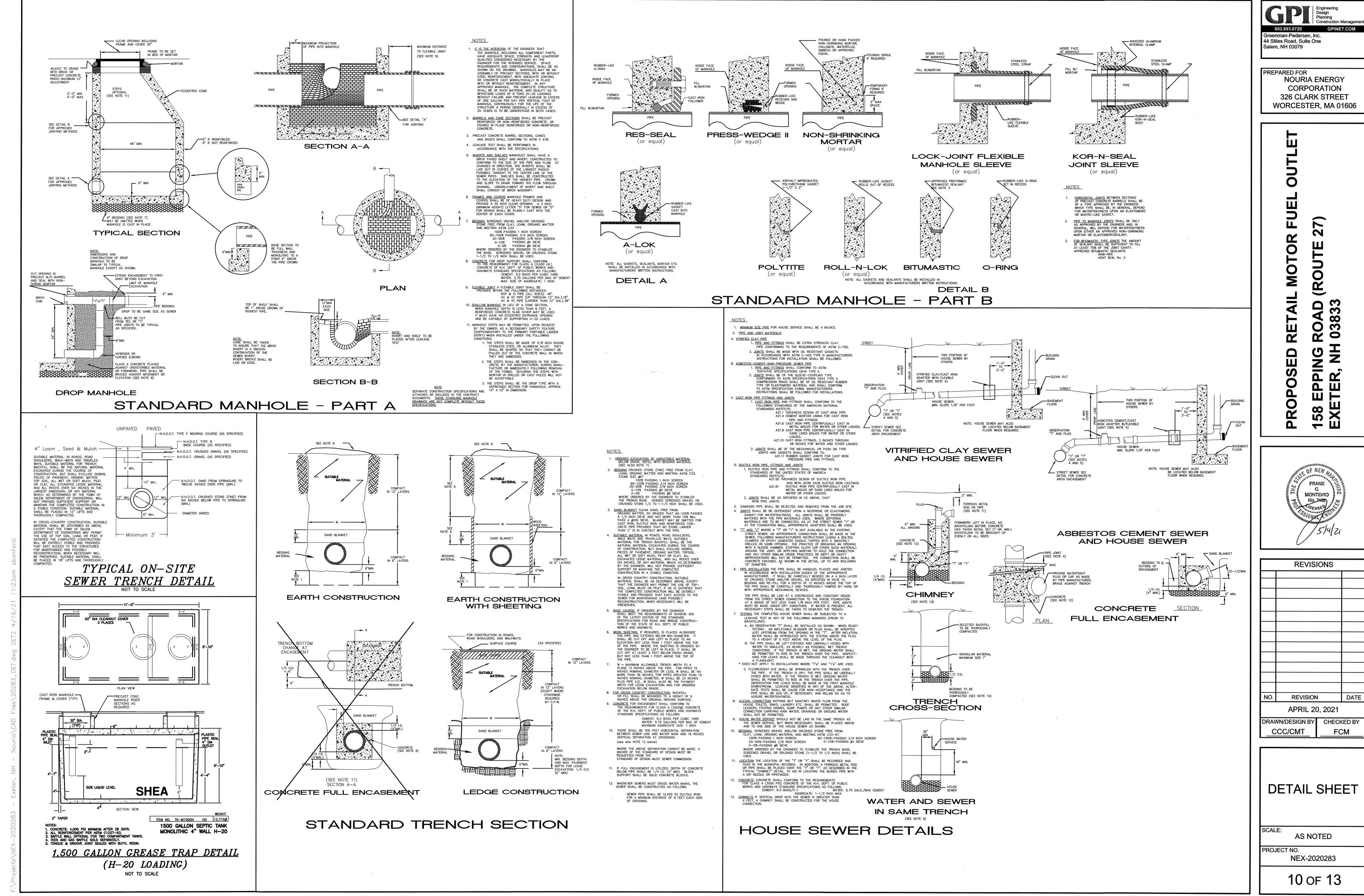
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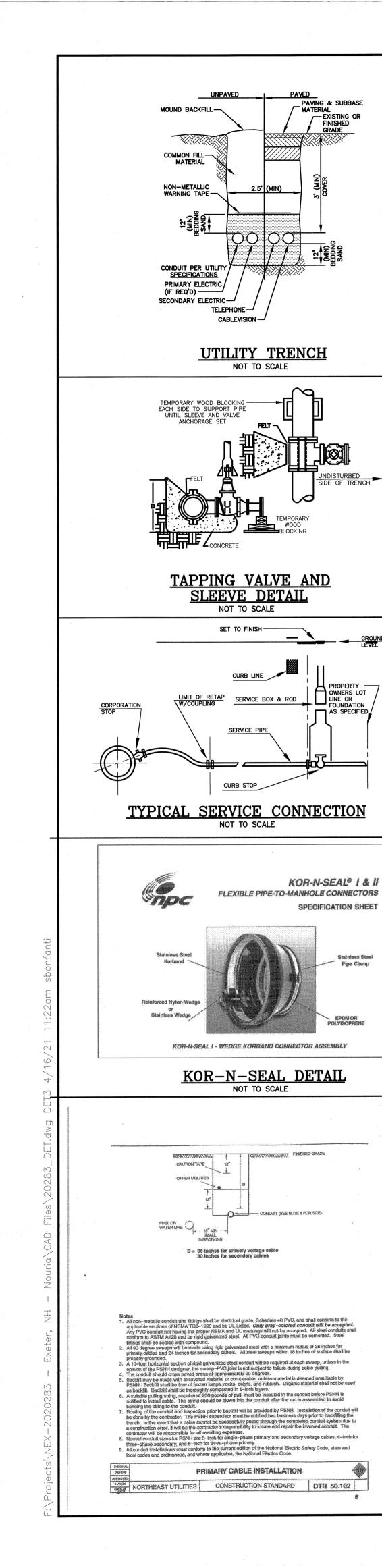


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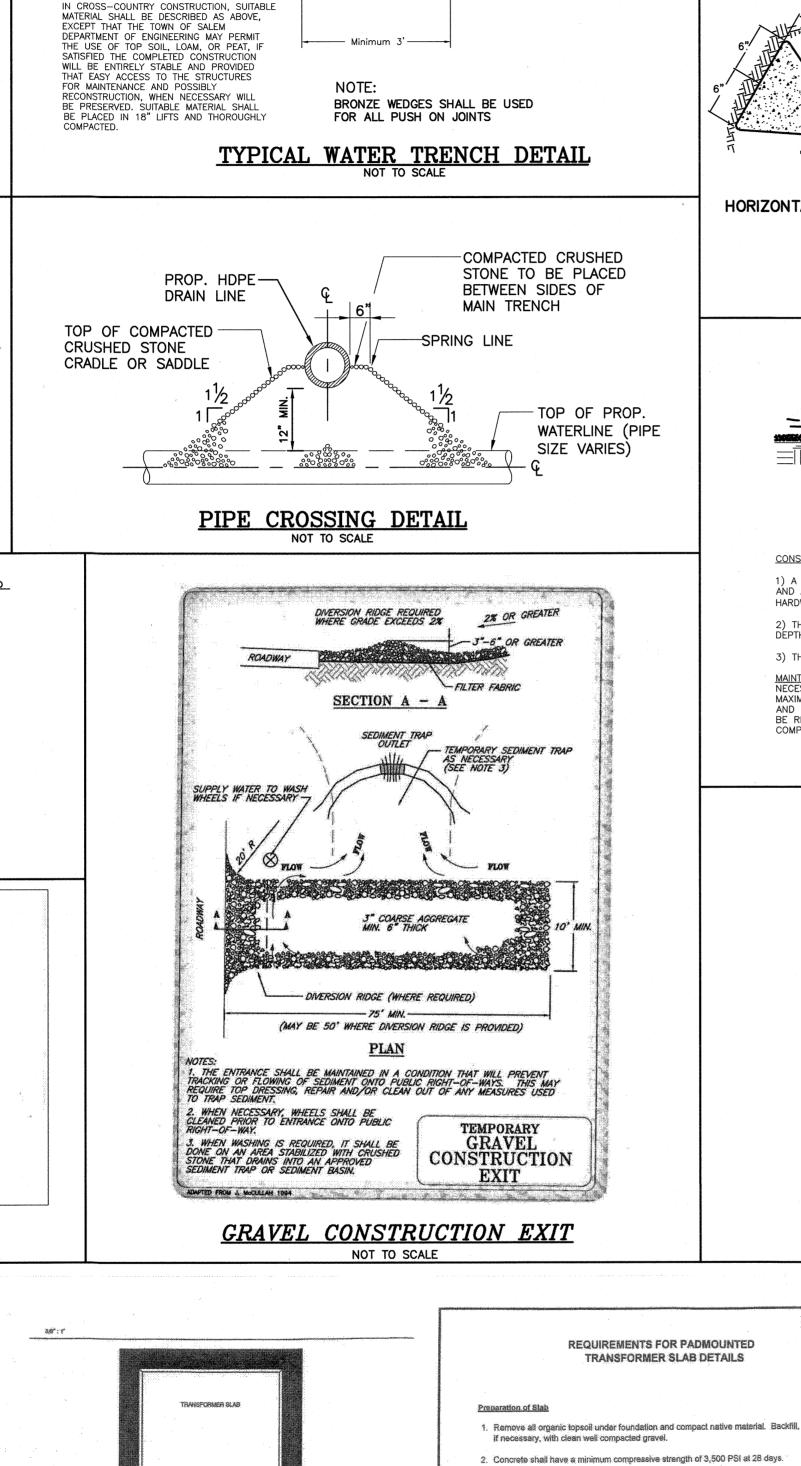
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AS NOTED PROJECT NO. NEX-2020283





Stainless Steel



(90" x 96")

Notes
To calculate dimension of the stone-filled most:
1. Convert gallons of oil in the transformer to cubic feet: Divide gallons by 7.48 to get cubic feet of oil.
2. Divide this number by 9.35 to determine the volume of stone-filled most required.
3. From the fable below select the width necessary to contain the oil.

68 x 50

Volume in Cubic Feet of 24" Deep Stone-Filled Most

OIL DETENTION FOR PAD-MOUNTED TRANSFORMERS

NORTHEAST UTILITIES CONSTRUCTION STANDARD DTR 58.311

80 x 92

90 x 96

S/4" STONE-FILLED THENCH SURFICUNDING THANSFORMER SLAB (SEE TABLE BELOW FOR WIDTH)

UNPAVED | PAVED

UITABLE MATERIAL: IN ROADS, ROAD

SHOULDERS, WALK—WAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH

BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF

TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL,

AND ALL ROCKS OVER SIX INCHES IN THE LARGEST DIMENSION, OR ANY MATERIAL

WHICH, AS DETERMINED BY THE TOWN OF SALEM DEPARTMENT OF ENGINEERING, WILL

NOT PROVIDE SUFFICIENT SUPPORT OR
MAINTAIN THE COMPLETED CONSTRUCTION IN

A STABLE CONDITION. SUITABLE MATERIAL SHALL BE PLACED IN 12" LIFTS AND

CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER,

PAVEMENT AND

GRAVEL BASE

AS SPECIFIED

N.H.D.O.T. SAND (ITEM 209.3) FROM SIX INCHES BELOW TO 12" INCHES ABOVE

STONE (FINE) WHEN IN WATERTABLE

4. All reinforcing shall be tied as one unit.

Chamfer all exposed concrete edges 1 inch.

and have a protective cap bushing on them.

DTR 56.223 (page 16 of this publication)

Public Service of New Hampshire

leads to enter pit openings as shown on details

Top of slab shall have a wood float finish.

DIAMETER VARIES

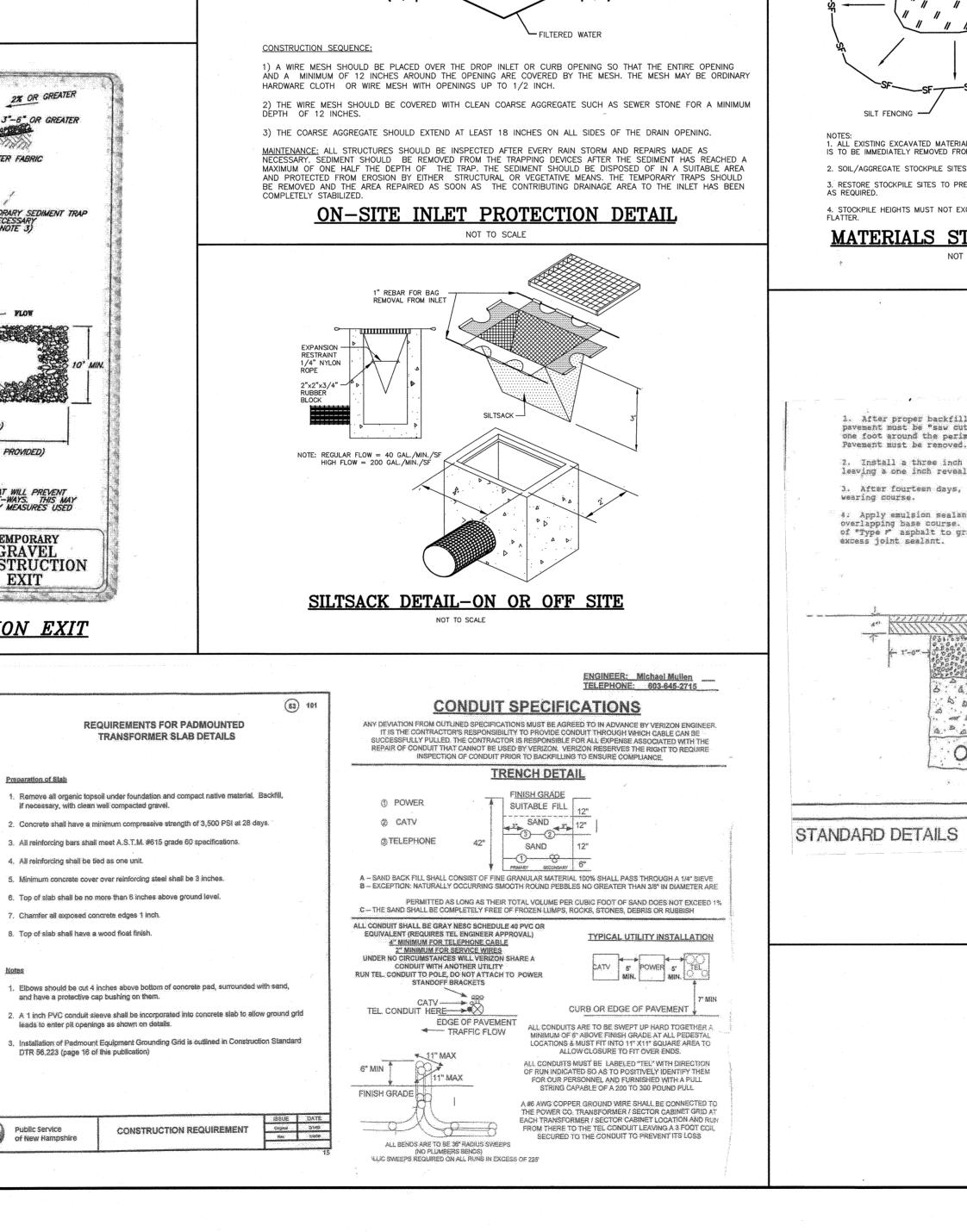
THE PIPE (MIN.) USE N.H.D.O.T. CRUSHED

THRUST BLOCK

VERTICAL SECTION

HORIZONTAL SECTION

-RUNOFF WATER WITH SEDIMENT



NOTE: ALL WATER SUPPLY MATERIALS TO MEET OR

CONCRETE THRUST BLOCK MINIMUM (SIZE 3' X 3')

BOTTOM OF TRENCH

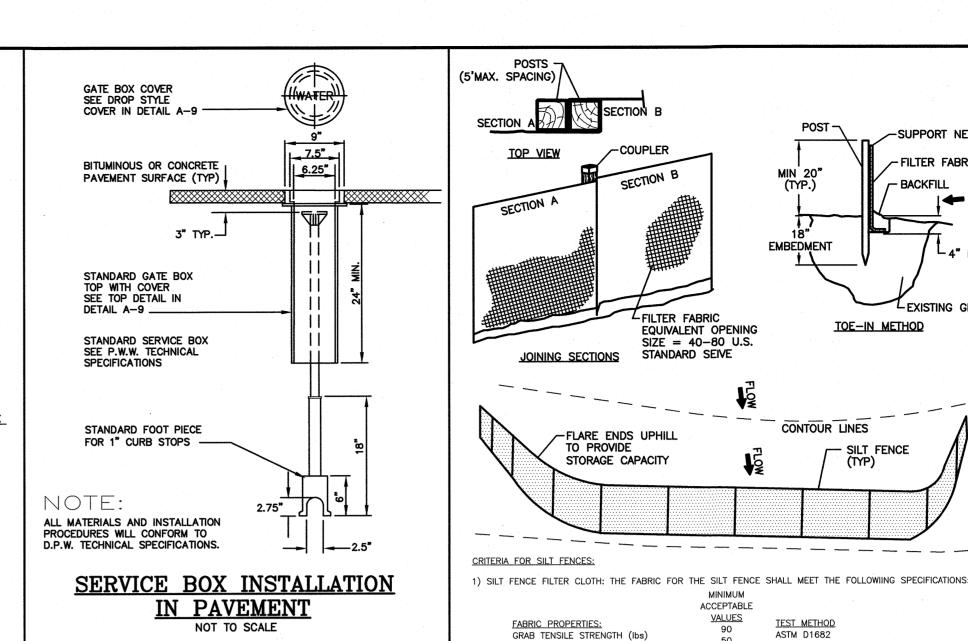
BOTTOM OF TRENCH

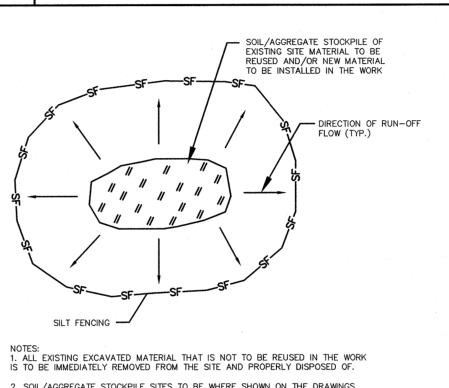
HORIZONTAL SECTION

THRUST BLOCK DETAILS HORIZONTAL SECTION

GRAVEL (12" MIN. DEPTH)

EXCEED LOCAL WATER WORKS SPECIFICATIONS





2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS. 3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED

MATERIALS STOCKPILE DETAIL

COMPACTED IN 8" LIFTS.

COMPACTED IN 1' LIFTS.

- BACKFILL AND COMPACT

PER UTILITY STANDARD.

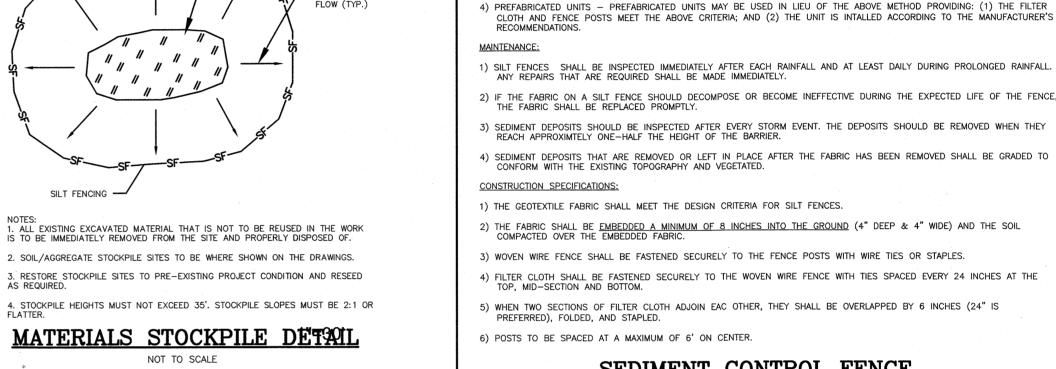
TOWN OF EXETER

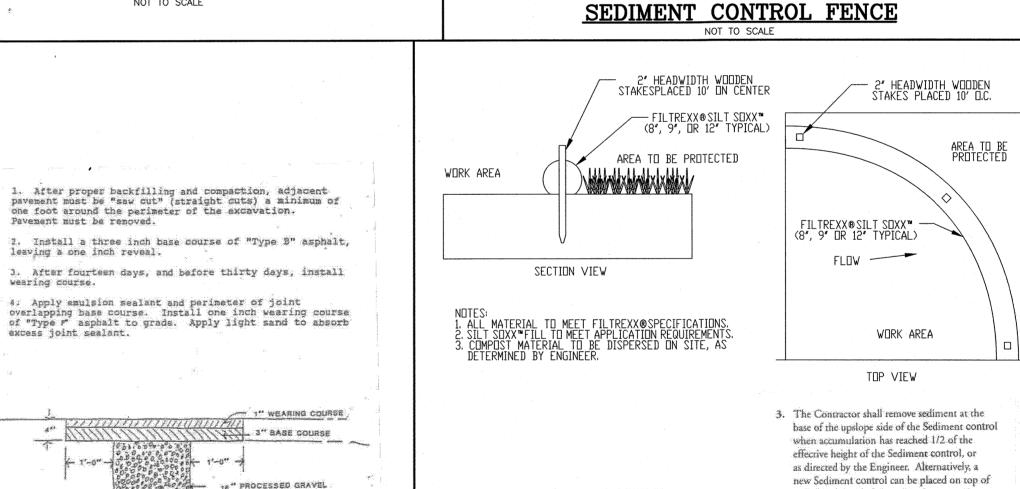
SUITABLE BACKFILL MATERIAL

leaving a one inch reveal.

wearing course.

excess joint sealant.





SECTION B

-FLARE ENDS UPHILL

STORAGE CAPACITY

TO PROVIDE

ELONGATION AT FAILURE (%)

PUNCTURE STRENGTH (lbs)

EQUIVELANT OPENING SIZE

MULLEN BURST STRENGTH (PSI)

-FILTER FABRIC

EQUIVALENT OPENING

MINIMUM

ACCEPTABLE

VALUES 90

2) FENCE POSTS (FOR FABRICATED UNITS) — THE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS WILL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES. STEEL POSTS WILL BE STANDARD T OR U SECTIONS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT. MAXIMUM SPACING SHALL BE 6

) WIRE FENCE (FOR FABRICATED UNITS) — WIRE FENCING SHALL BE A MINIMUM 14.5 GUAGE WITH A MAXIMUM 6 INCH MESH

SIZE = 40-80 U.S

STANDARD SEIVE

INSPECTION AND MAINTENANCE Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. Sediment control should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flowthrough. If ponding becomes excessive, additional Sediment control may be required to reduce effective slope length or sediment removal may be necessary. Sediment control shall be inspected until area above has been permanently stabilized and construction

activity has ceased 1. The Contractor shall maintain the Sediment control in a functional condition at all times and it shall be routinely inspected.

2. If the Sediment control has been damaged, it shall be repaired, or replaced if beyond repair.

and slightly behind the original one creating more sediment storage capacity without soil 4. Sediment control shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased. 5. The FilterMedia³⁸ will be dispersed on site once

disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer. 6. For long-term sediment and pollution control applications, Sediment control can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants

(contained vegetative filter strip). The appropriate

seed mix shall be determined by the Engineer.

FILTREXX®SILT SDXX™



NOURIA ENERGY CORPORATION

-SUPPORT NET

FILTER FABRIC

– 4" embedmen

LEXISTING GROUND

- BACKFILL

TOE-IN METHOD

SILT FENCE

CONTOUR LINES

TEST METHOD

ASTM D1682

ASTM D1682 ASTM D3786

ASTM D751

US STD SIEVE

326 CLARK STREET WORCESTER, MA 01606

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NO.	DATE					
APRIL 20, 2021						
DRAV	DRAWN/DESIGN BY CHECKED BY					
C	CCC/CMT FCM					

DETAIL SHEET

SCALE: AS NOTED

11 of 13

PROJECT NO. NEX-2020283 NOTES:
FOR ADDITIONAL INFORMATION REFER TO THE NEW HAMPSHIRE

STORMWATER MANUAL, VOLUME 2, POST-CONSTRUCTION BEST

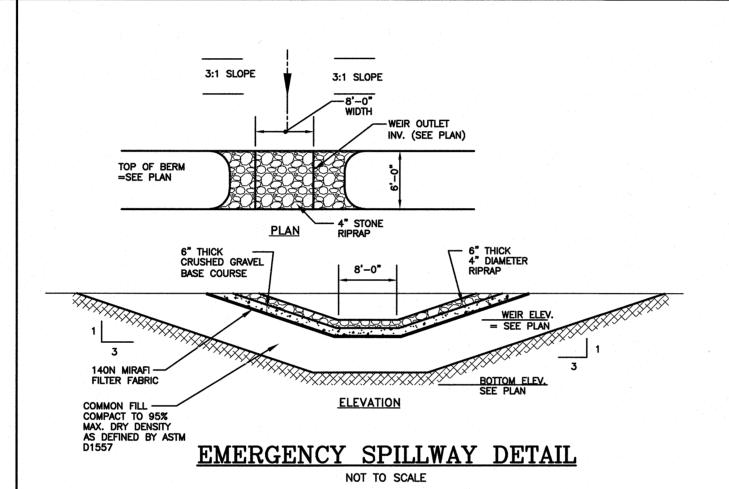
MANAGEMENT PRACTICES, DECEMBER 2008.

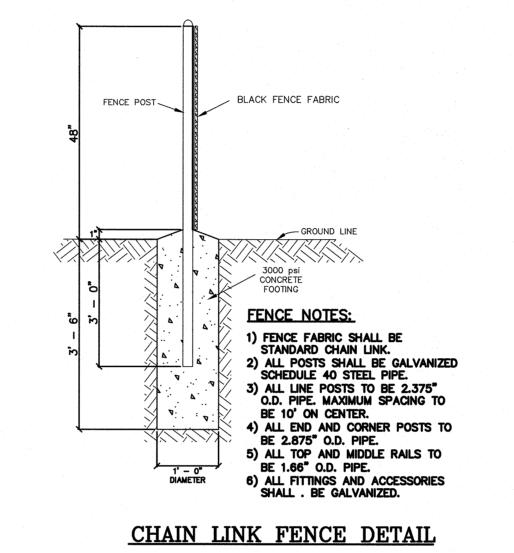
-SEE LANDSCAPE PLAN FOR PLANT LIST TOP BERM - SEE CHART -SEE LANDSCAPE PLAN FOR SOIL FILTER MEDIA —— REFER TO TABLE 4—4 BIO-RETENTION AREA BOTTOM 6" HDPE OUTLET MATERIALS RISER WITH 6" INV.=97.10 -PROPOSED PAVEMENT BOTTOM ELEV - SEE 6" HDPE -BOTTOM FILTER MEDIA ELEV. - SEE CHART TOP BERM BASIN BOTTOM SOIL MEDIA BOTTOM FILTER ELEVATION ELEVATION THICKNESS MEDIA ELEV. BIORETENTION AREA BIORETENTION BASIN #1 97.50 95.00 96.50 18"

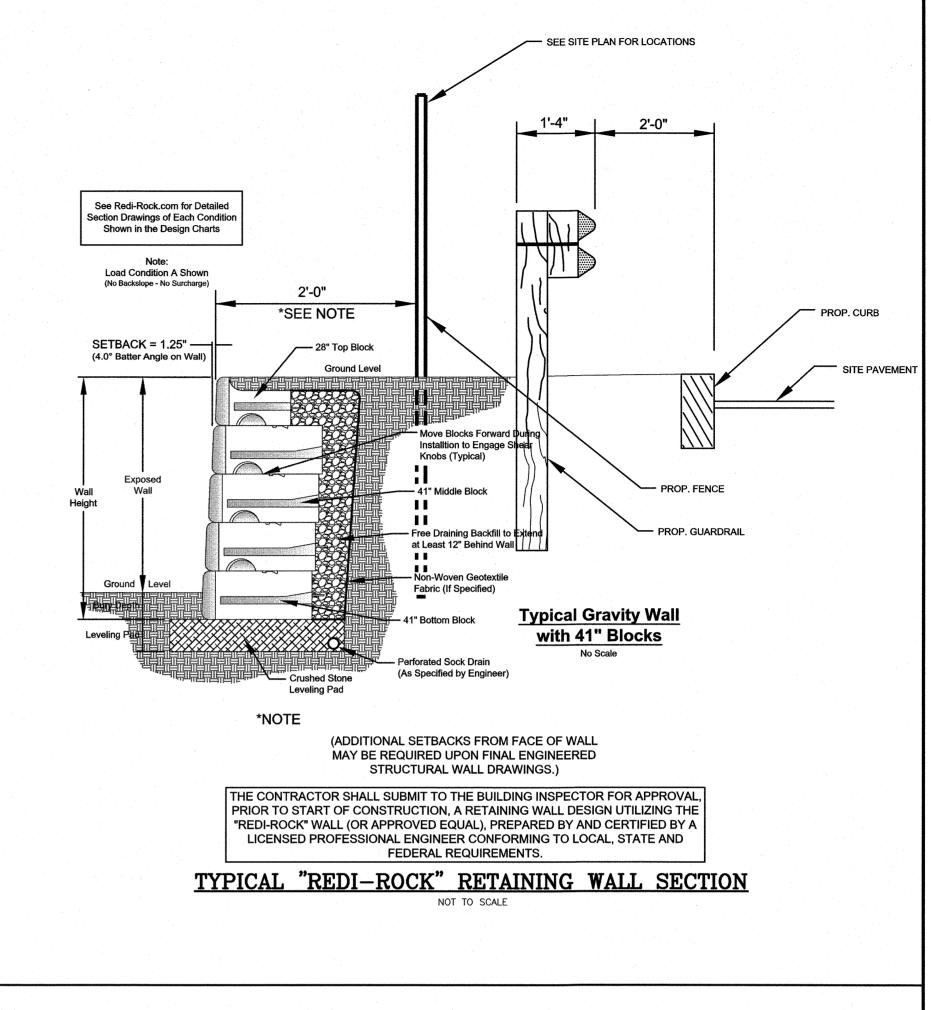
6" x 8" (NOM.)TIMBER --STANDARD N.H.D.O.T OFFSET BLOCK (1'- 2" STEEL BEAM RAIL LONG) WITH TIMBER POSTS. 5/8" DIA. BOLT WITH STD. WASHER & HEX NUT 6"x 8"(NOM.) TIMBER POST— (5'-11" LONG), 6'-3" O.C. -WEARING COURSE CURB (SEE DETAIL) 3/4"-1 1/2" CRUSHED STONE 6" THICK GUARD RAIL DETAIL ALONG RETAINING WALL NOT TO SCALE

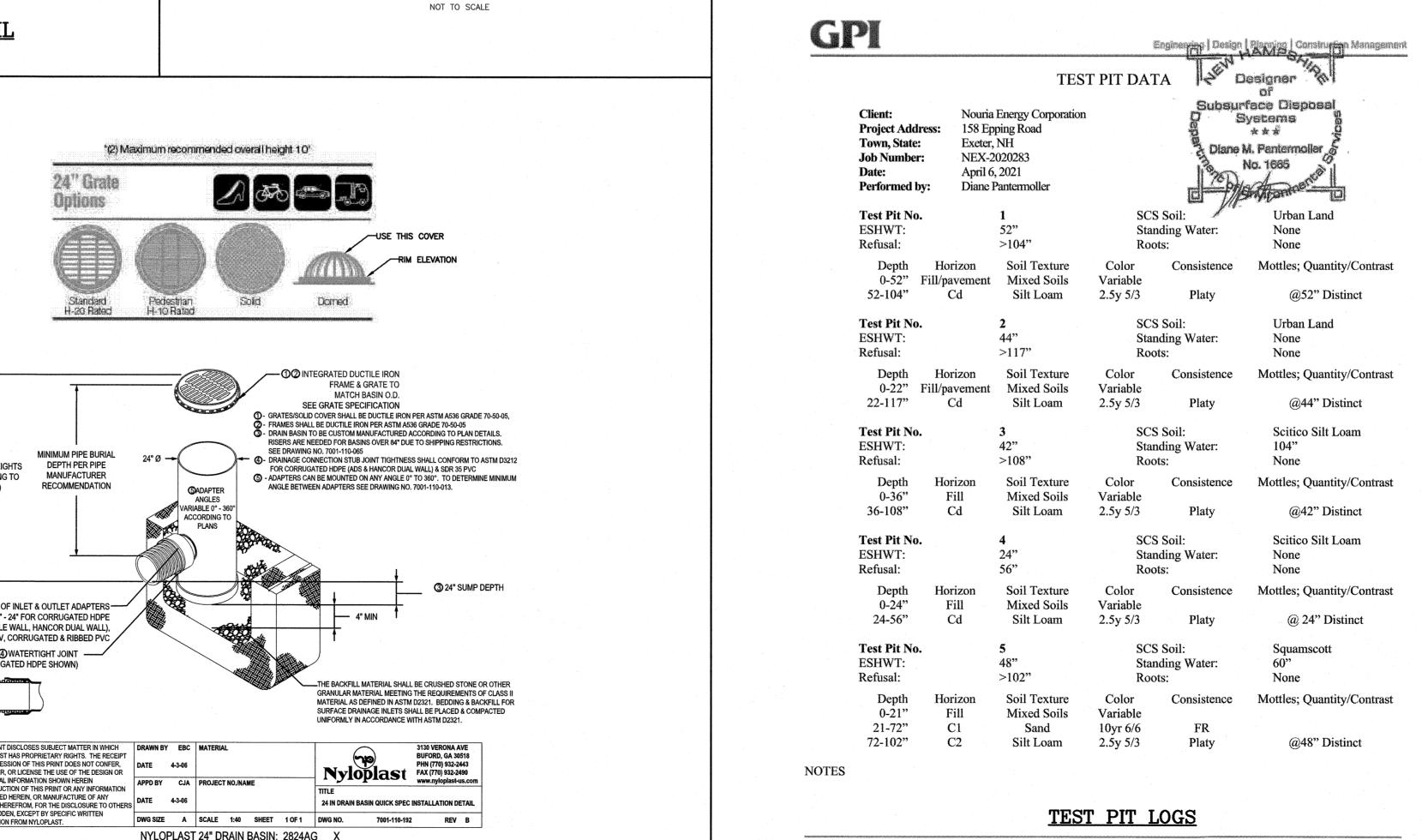
SCHEMATIC BIO-RETENTION AREA DETAIL

NOT TO SCALE









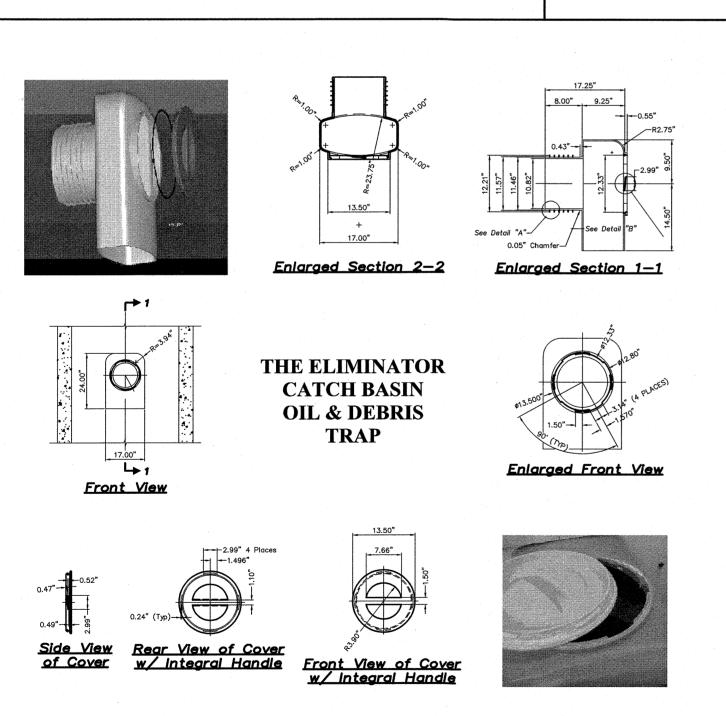
Greenman-Pedersen, Inc.

44 Stiles Road, Suite One

An Equal Opportunity Employer

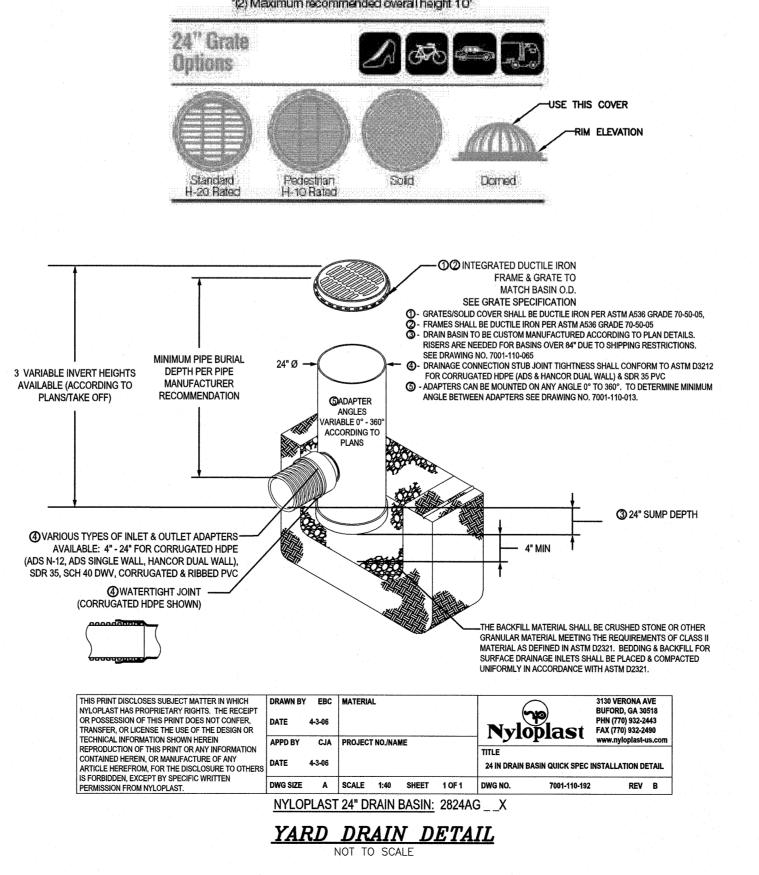
p 603-893-0720

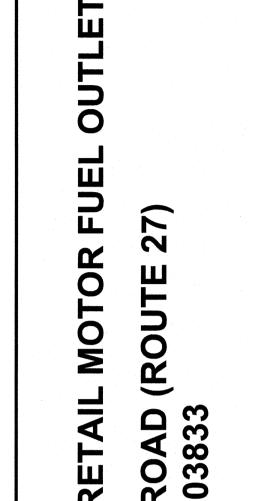
Salem, NH 03079



Section 1-1

Detail "A"





Greenman-Pedersen, Inc.

44 Stiles Road, Suite One

NOURIA ENERGY

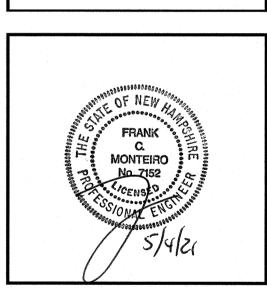
CORPORATION

326 CLARK STREET

WORCESTER, MA 01606

Salem, NH 03079

PREPARED FOR



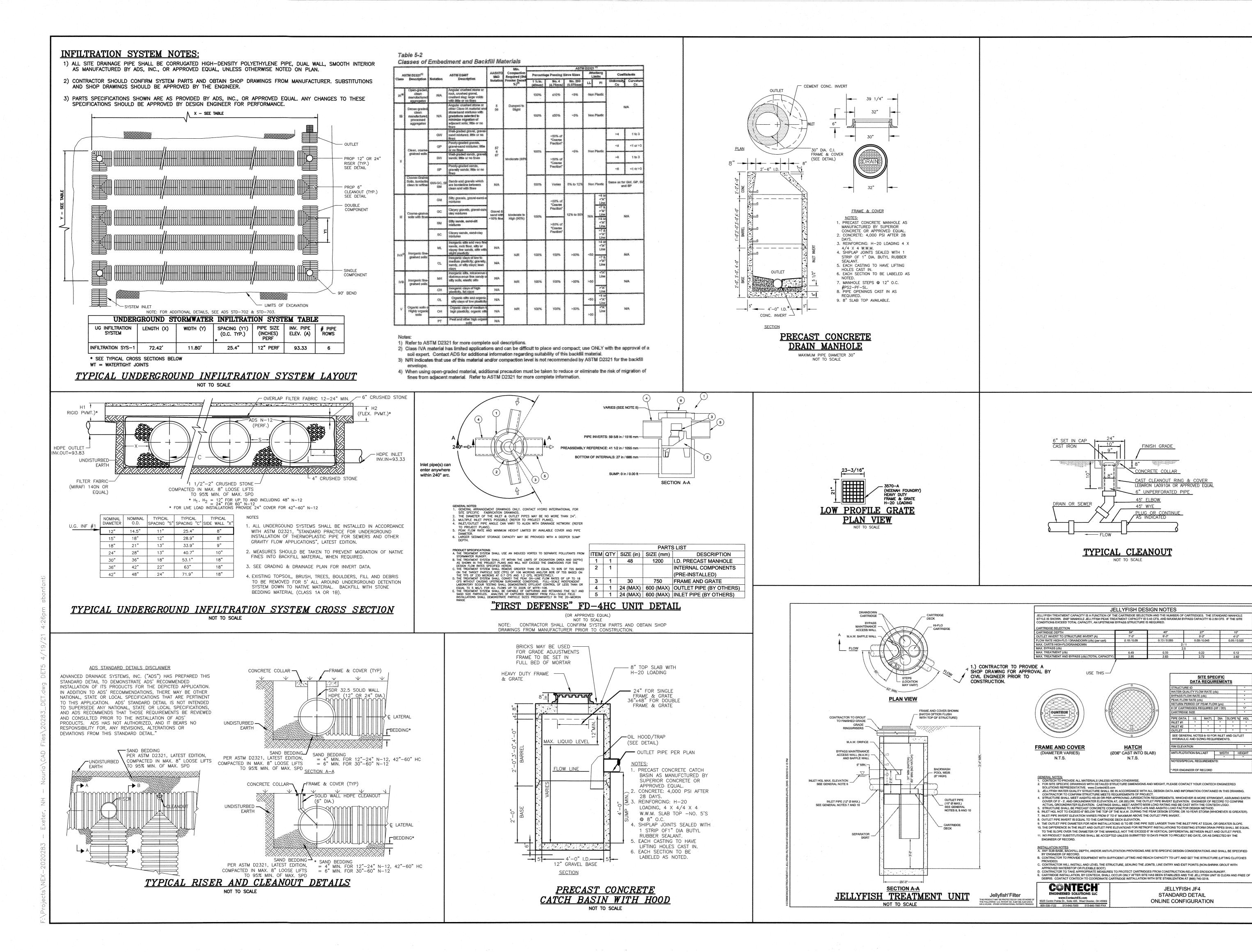
PPI

58 X

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	APRIL 20, 2021						
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PROJECT NO. NEX-2020283 12 of 13

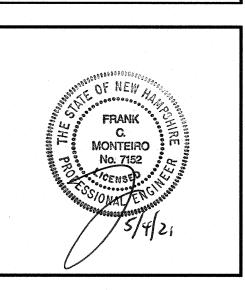


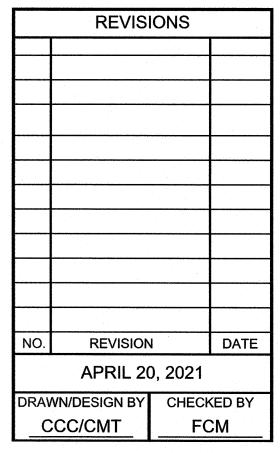


PREPARED FOR **NOURIA ENERGY** CORPORATION 326 CLARK STREET

WORCESTER, MA 01606

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SITE SPECIFIC DATA REQUIREMENTS

ANTI-FLOTATION BALLAST WIDTH HEIGHT

ETURN PERIOD OF PEAK FLOW (yrs)
OF CARTRIDGES REQUIRED (HF / DD)

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

RTRIDGE SIZE

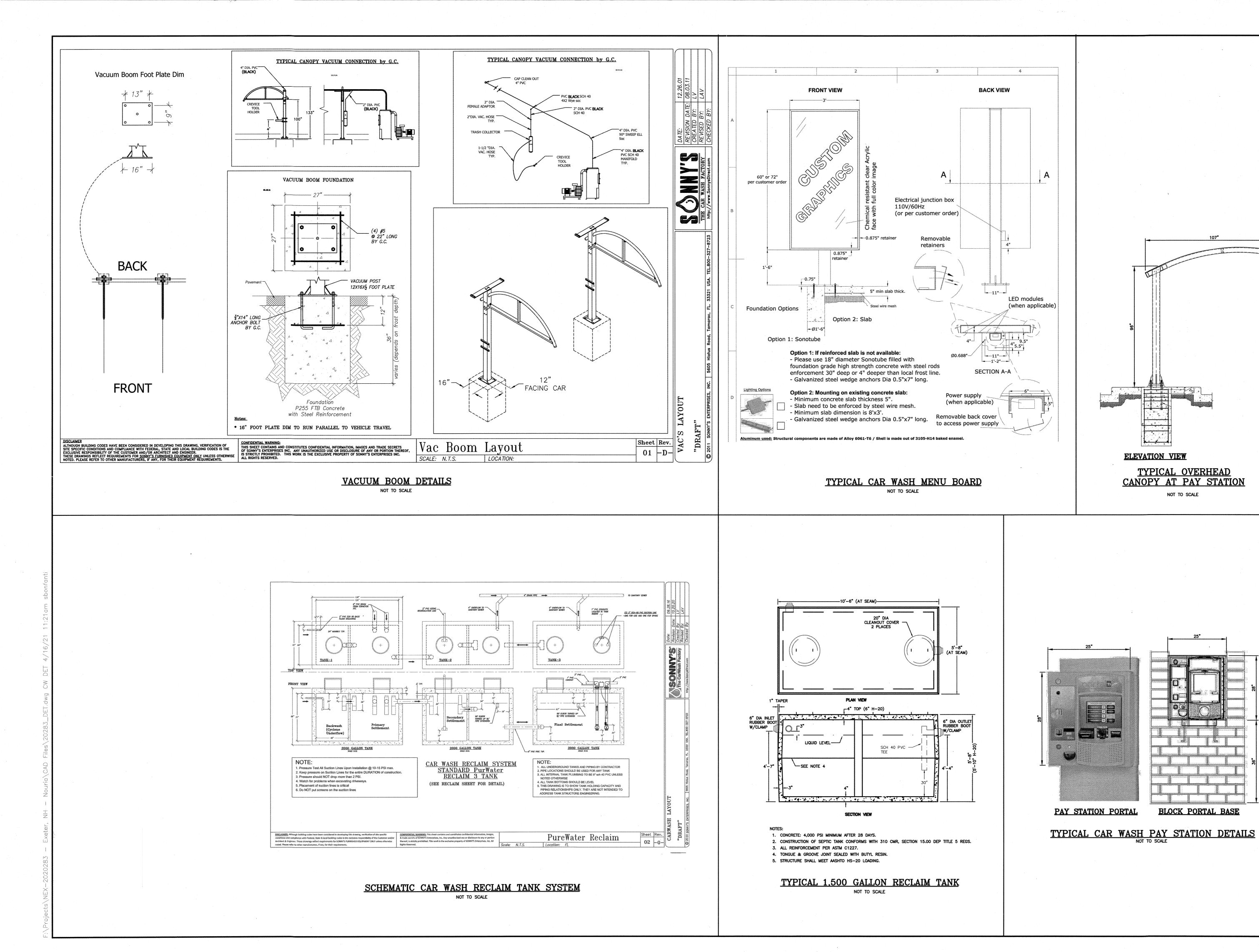


AS NOTED

PROJECT NO.

13 of 13

NEX-2020283

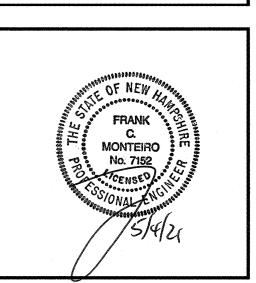




PREPARED FOR **NOURIA ENERGY** CORPORATION 326 CLARK STREET

WORCESTER, MA 01606

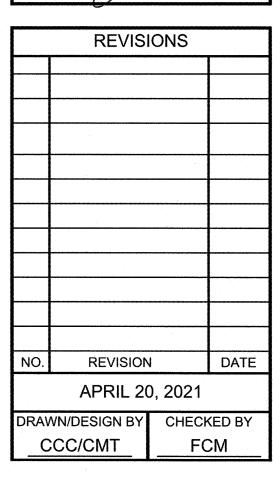
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TYPICAL OVERHEAD

NOT TO SCALE

BLOCK PORTAL BASE

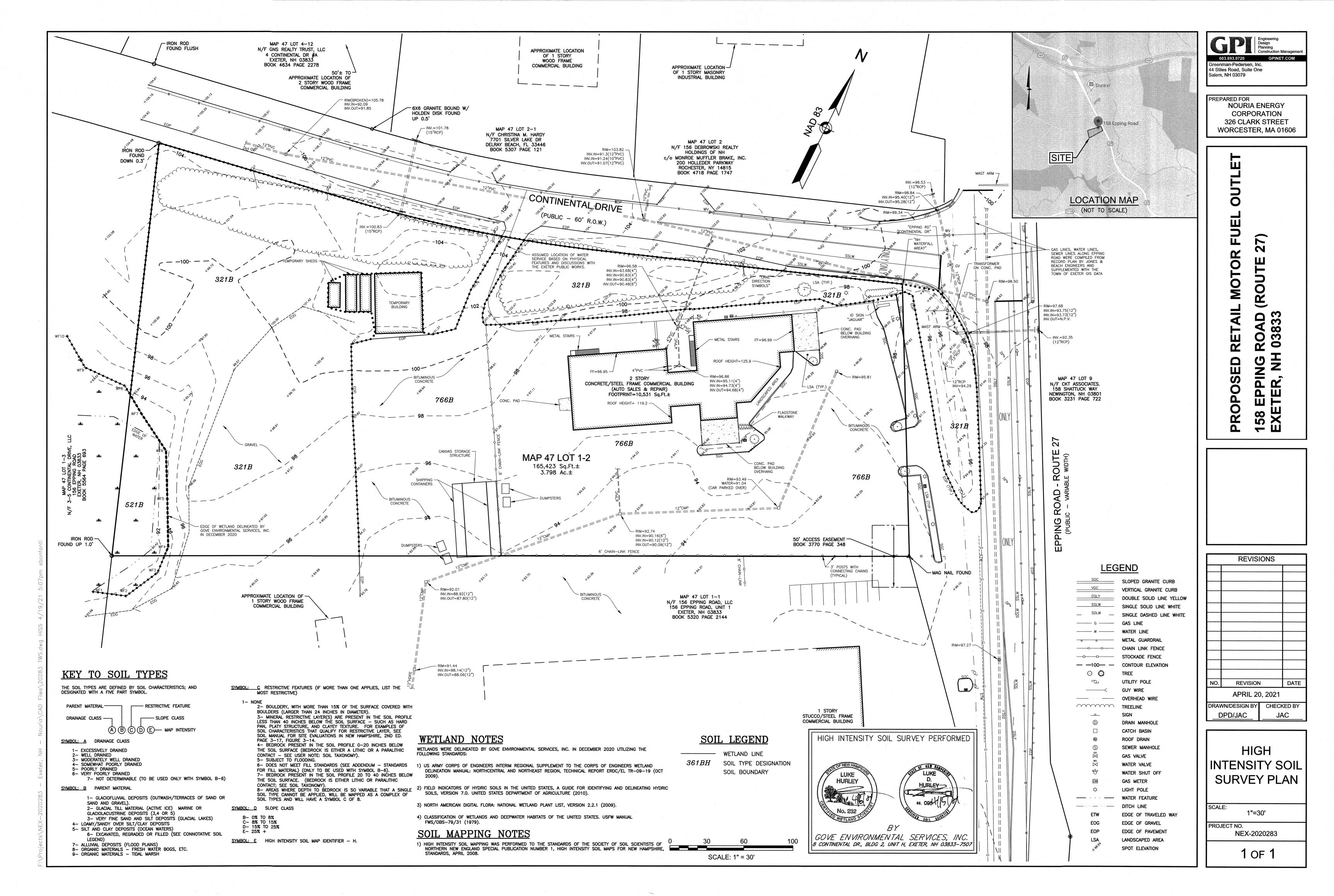


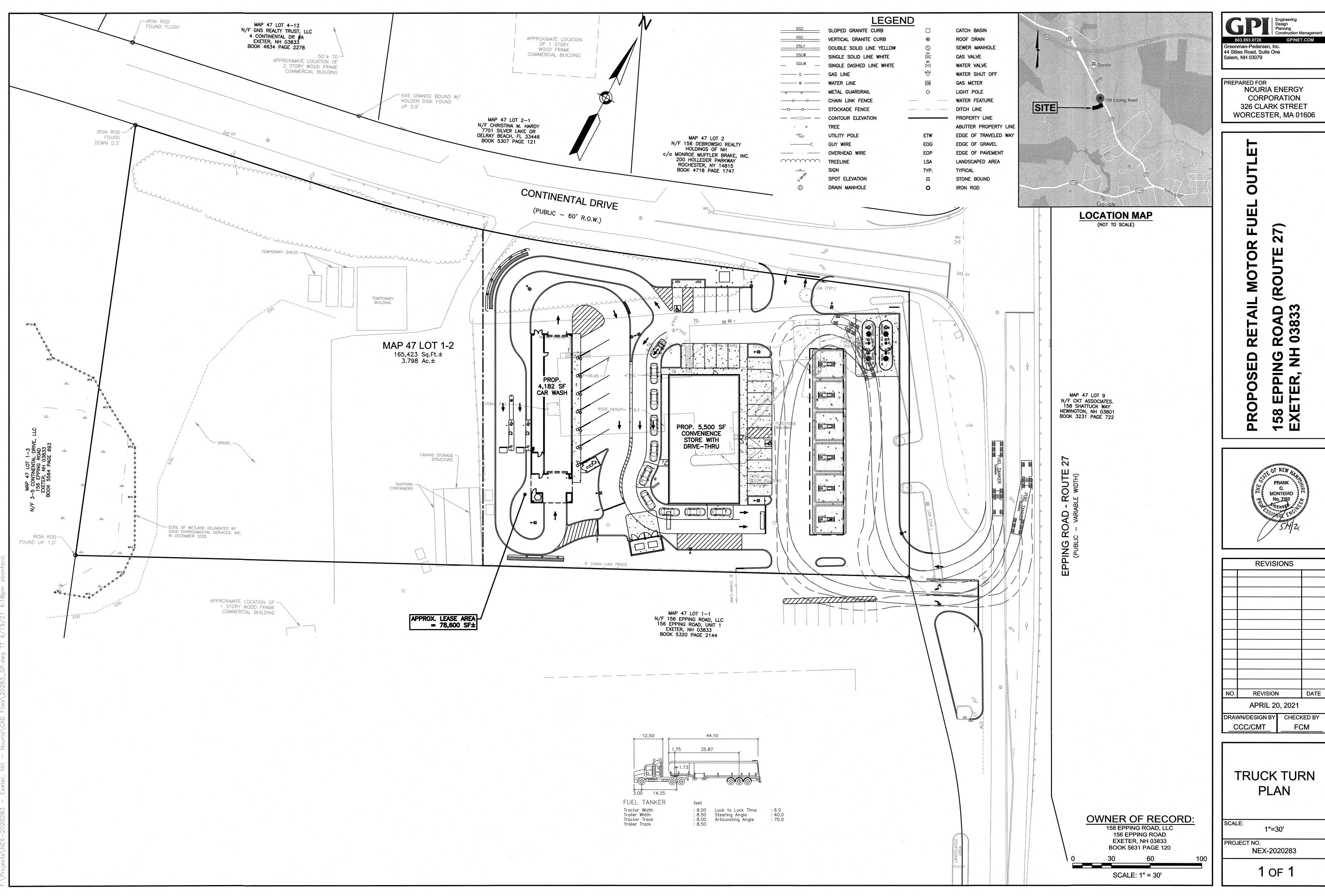


AS NOTED PROJECT NO.

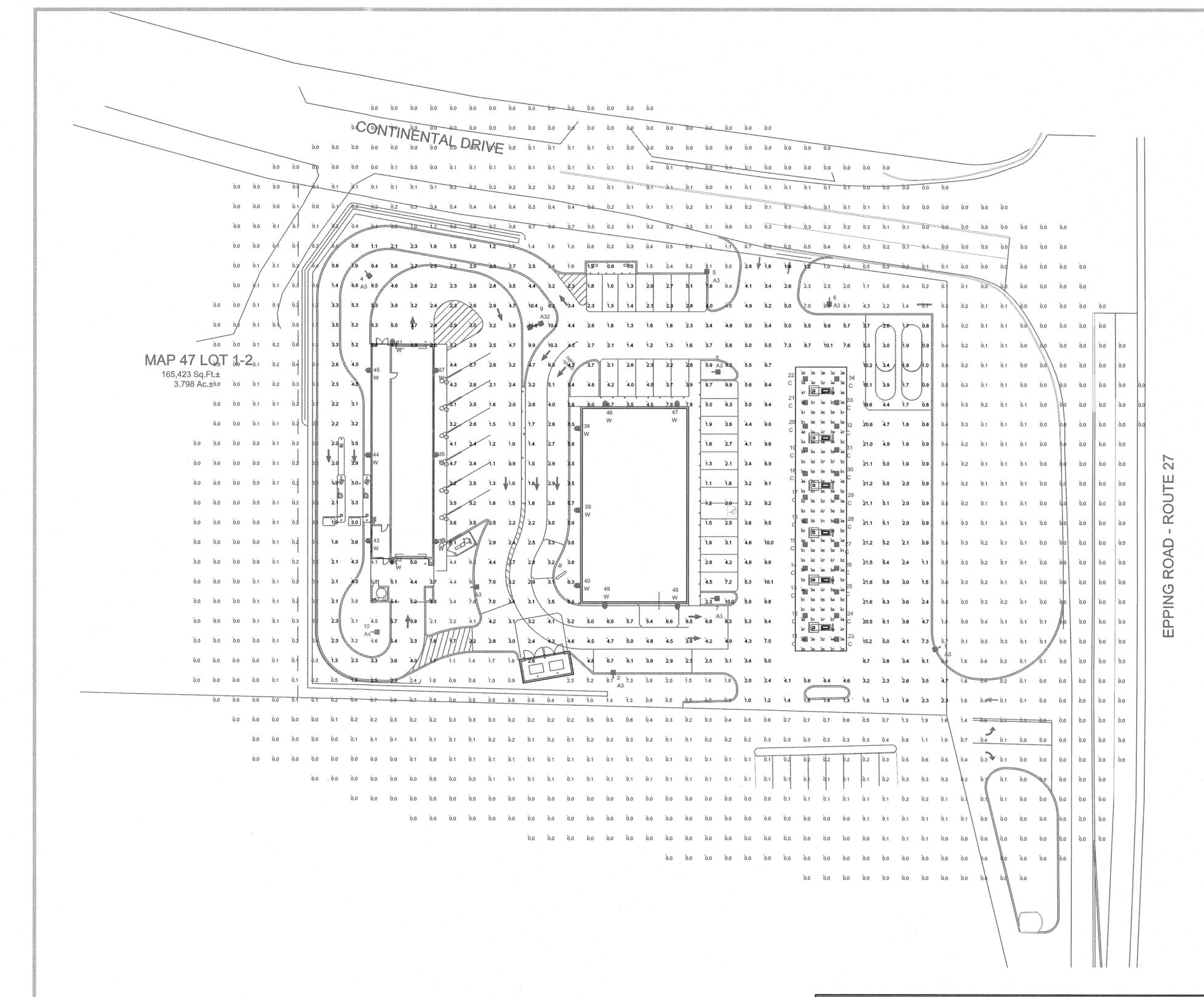
NEX-2020283

1 OF 1









W W

THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES

- ALL AREA LIGHTS ON NEW 15 FT. POLE MOUNTED ON 2 FT. CONCRETE BASE

FOOTCANDLE LEVELS CALCULATED A	T GRADE USING INITIAL LU	JMEN VALI	JES		
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	4.28	21.6	0.8	5.35	27.00
UNDEFINED	0.36	9.5	0.0	N.A.	N.A.
UNDER CANOPY	50.86	67	29	1.75	2.31

LUMINAIRE SC	LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	8	A3	SINGLE	11175	1.030	B2-U0-G2	72	576	Cree Lighting	OSQ-ML-B-XX-XX + OSQM-B-11L-57K7-3M-UL-NM-XX
	1	A32	BACK-BACK	11175	1.030	B2-U0-G2	72	144	Cree Lighting	OSQ-ML-B-XX-XX + OSQM-B-11L-57K7-3M-UL-NM-XX
	1	A4	SINGLE	11174	1.030	B2-U0-G2	72	72	Cree Inc	OSQ-ML-B-XX-XX + OSQM-B-11L-57K7-4M-UL-NM-XX
professional construction of the construction	24	С	SINGLE	13251	1.030	B3-U0-G1	134	3216	CREE, INC.	CAN-304-SL-RS-06-E-UL-XX-700-57K
	15	W	SINGLE	4270	1.030	B1-U0-G1	31	465	Cree Inc	XSPW-B-WM-3ME-4L-57K-UL-XX

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SCALE: LAYOUT BY: 1" = 30' DWG SIZE: DATE: 4/9/21 D

PROJECT NAME: **NOURIA ENERGY** EXTER, NH DRAWING NUMBER: RL-7312-S1



1340 Kemper Meadow Dr, Forest Park, OH 45240

513-574-9500 | redleonard.com