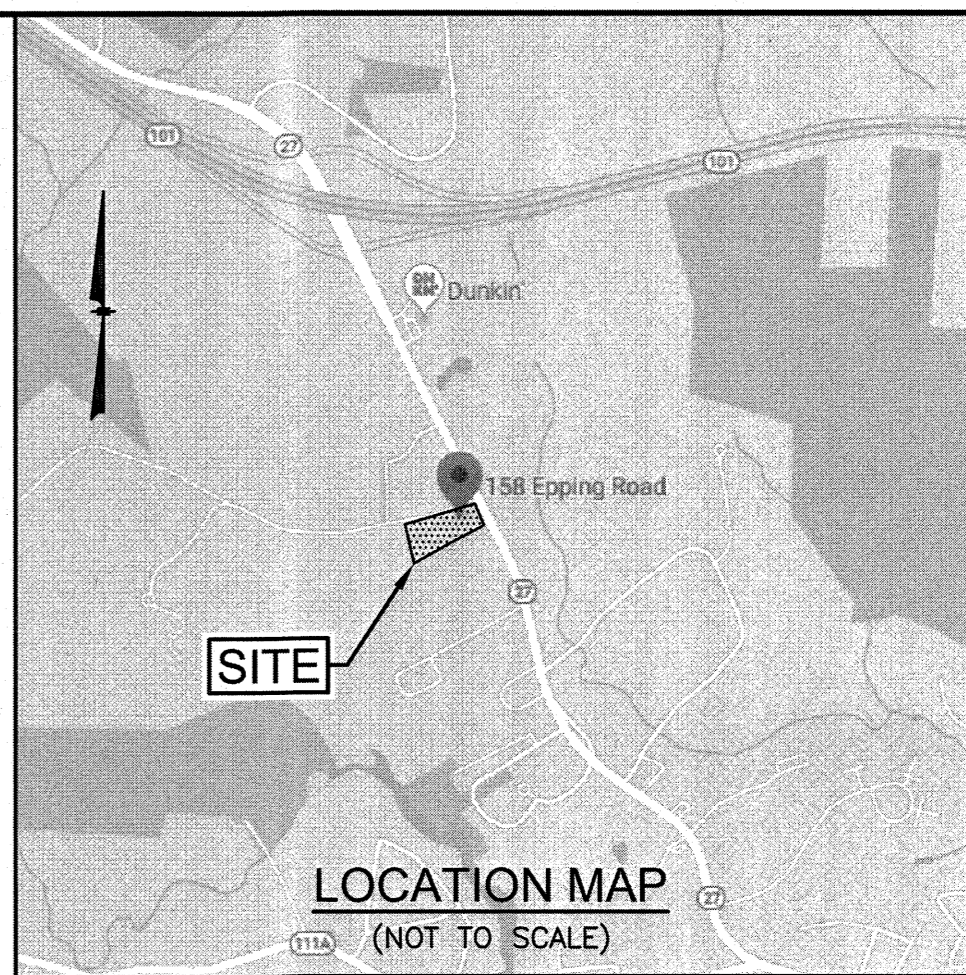
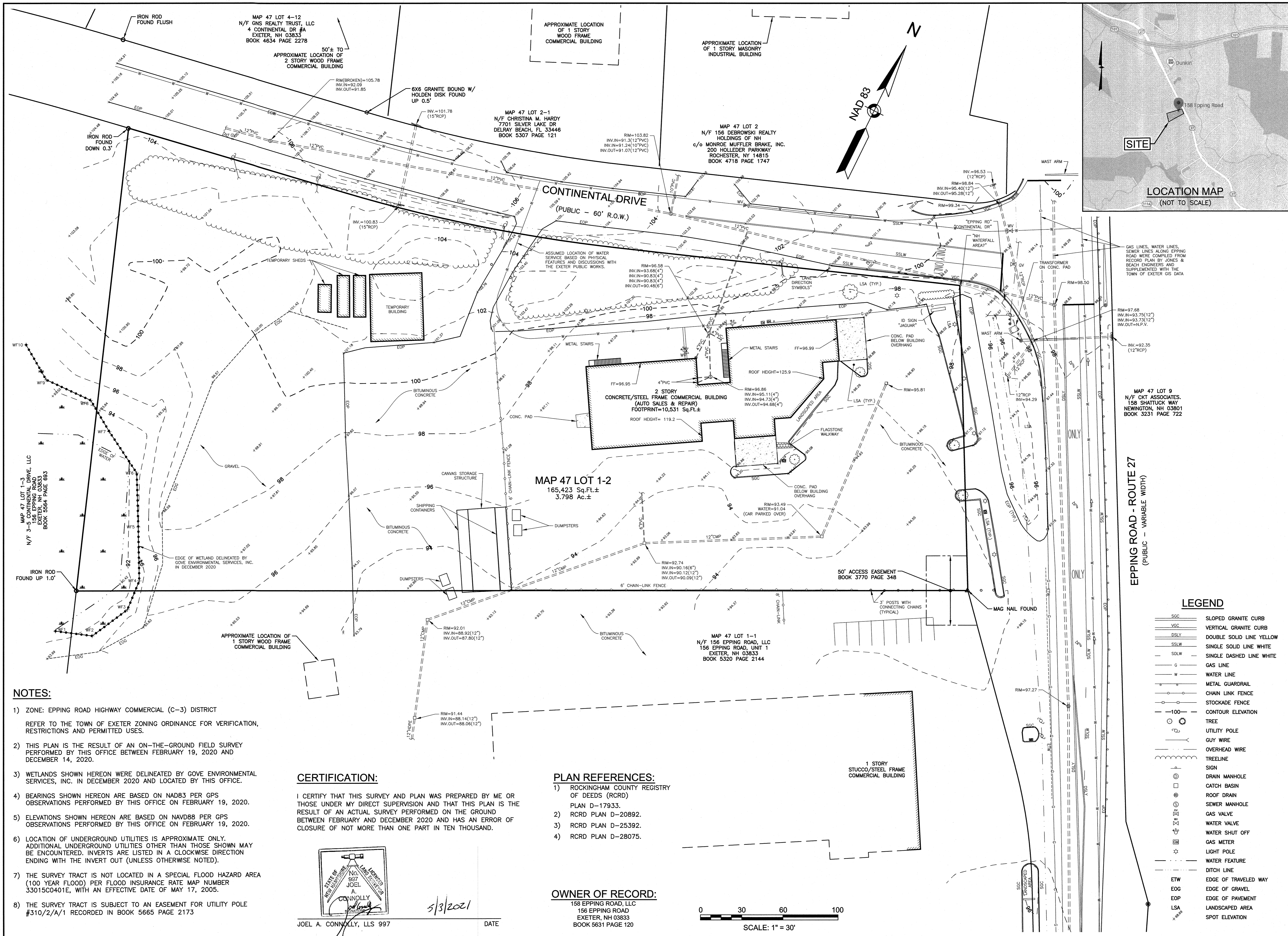






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**GPI** Engineering  
Design  
Planning  
Construction Management  
603.893.0720 GPINET.COM  
Greenman-Pedersen, Inc.  
44 Siles Road, Suite One  
Salem, NH 03079

PREPARED FOR  
**NOURIA ENERGY CORPORATION**  
326 CLARK STREET  
WORCESTER, MA 01606

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

GAS LINES, WATER LINES, SEWER LINES ALONG EPPING ROAD WERE COMPILED FROM RECORD PLAN BY JONES & BEACH ENGINEERS AND SUPPLEMENTED WITH THE TOWN OF EXETER GIS DATA

MAP 47 LOT 9  
N/F DKT ASSOCIATES,  
158 SHATTUCK WAY  
NEWINGTON, NH 03801  
BOOK 3231 PAGE 722

**EPPING ROAD - ROUTE 27**  
(PUBLIC - VARIABLE WIDTH)

**LEGEND**

- SGC SLOPED GRANITE CURB
- VGC VERTICAL GRANITE CURB
- DSLY DOUBLE SOLID LINE YELLOW
- SSLW SINGLE SOLID LINE WHITE
- SDLW SINGLE DASHED LINE WHITE
- G GAS LINE
- W WATER LINE
- W METAL GUARDRAIL
- CLF CHAIN LINK FENCE
- CF STOCKADE FENCE
- 100 CONTOUR ELEVATION
- TREE TREE
- UP UTILITY POLE
- GW GUY WIRE
- OW OVERHEAD WIRE
- TR TREELINE
- SIGN SIGN
- DM DRAIN MANHOLE
- CB CATCH BASIN
- RF ROOF DRAIN
- SM SEWER MANHOLE
- GV GAS VALVE
- WV WATER VALVE
- WS WATER SHUT OFF
- GM GAS METER
- LP LIGHT POLE
- WF WATER FEATURE
- DL DITCH LINE
- ETW EDGE OF TRAVELED WAY
- EOG EDGE OF GRAVEL
- EOP EDGE OF PAVEMENT
- LSA LANDSCAPED AREA
- SE SPOT ELEVATION

**REVISIONS**

NO.	REVISION	DATE

NO. REVISION DATE

APRIL 20, 2021

DRAWN/DESIGN BY: DPD/JAC CHECKED BY: JAC

**EXISTING CONDITIONS PLAN**

SCALE: 1"=30'

PROJECT NO. NEX-2020283

2 OF 13

- NOTES:**
- 1) ZONE: EPPING ROAD HIGHWAY COMMERCIAL (C-3) DISTRICT  
REFER TO THE TOWN OF EXETER ZONING ORDINANCE FOR VERIFICATION, RESTRICTIONS AND PERMITTED USES.
  - 2) THIS PLAN IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY PERFORMED BY THIS OFFICE BETWEEN FEBRUARY 19, 2020 AND DECEMBER 14, 2020.
  - 3) WETLANDS SHOWN HEREON WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. IN DECEMBER 2020 AND LOCATED BY THIS OFFICE.
  - 4) BEARINGS SHOWN HEREON ARE BASED ON NAD83 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON FEBRUARY 19, 2020.
  - 5) ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON FEBRUARY 19, 2020.
  - 6) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED. INVERTS ARE LISTED IN A CLOCKWISE DIRECTION ENDING WITH THE INVERT OUT (UNLESS OTHERWISE NOTED).
  - 7) THE SURVEY TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (100 YEAR FLOOD) PER FLOOD INSURANCE RATE MAP NUMBER 33015C0401E, WITH AN EFFECTIVE DATE OF MAY 17, 2005.
  - 8) THE SURVEY TRACT IS SUBJECT TO AN EASEMENT FOR UTILITY POLE #310/2/A/1 RECORDED IN BOOK 5665 PAGE 2173

**CERTIFICATION:**

I CERTIFY THAT THIS SURVEY AND PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAN IS THE RESULT OF AN ACTUAL SURVEY PERFORMED ON THE GROUND BETWEEN FEBRUARY AND DECEMBER 2020 AND HAS AN ERROR OF CLOSURE OF NOT MORE THAN ONE PART IN TEN THOUSAND.

JOEL A. CONNOLLY, LLS 997

5/3/2021

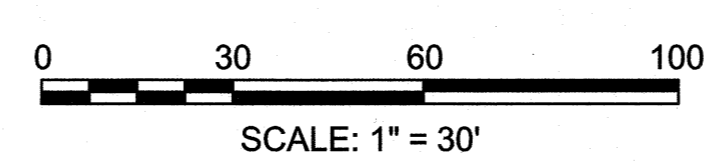
DATE

**PLAN REFERENCES:**

- 1) ROCKINGHAM COUNTY REGISTRY OF DEEDS (RCRD) PLAN D-17933.
- 2) RCRD PLAN D-20892.
- 3) RCRD PLAN D-25392.
- 4) RCRD PLAN D-28075.

**OWNER OF RECORD:**

158 EPPING ROAD, LLC  
158 EPPING ROAD  
EXETER, NH 03833  
BOOK 5631 PAGE 120







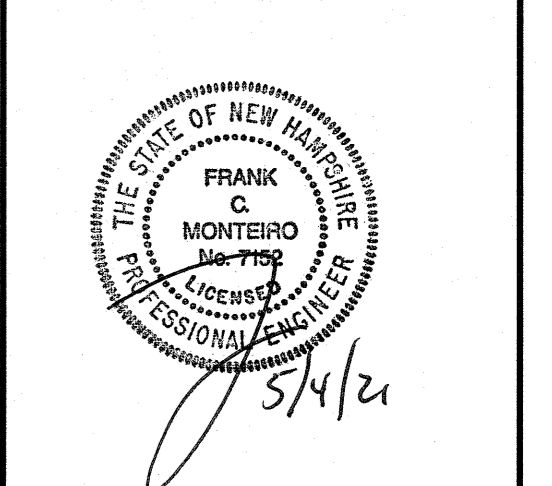






PREPARED FOR  
**NOURIA ENERGY CORPORATION**  
 326 CLARK STREET  
 WORCESTER, MA 01606

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



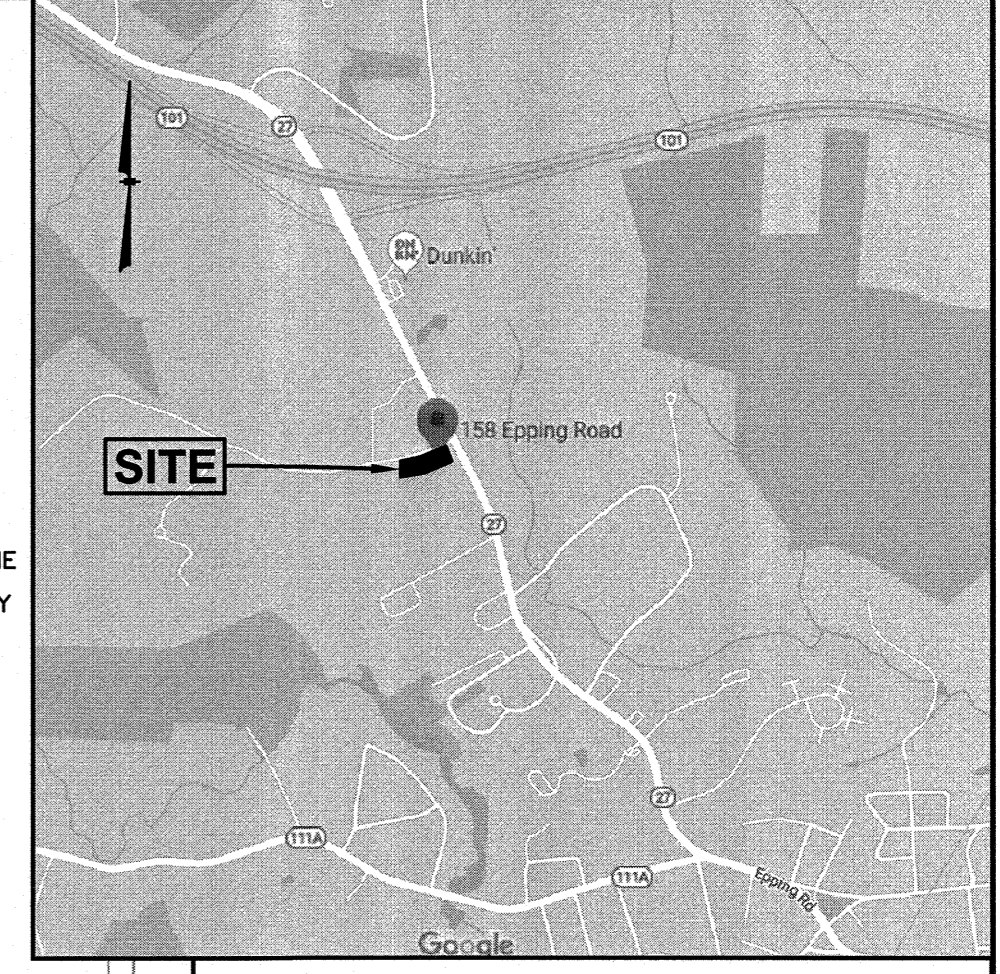
REVISIONS		
NO.	REVISION	DATE

**GRADING & DRAINAGE PLAN**

SCALE: 1"=30'

PROJECT NO. NEX-2020283

5 OF 13



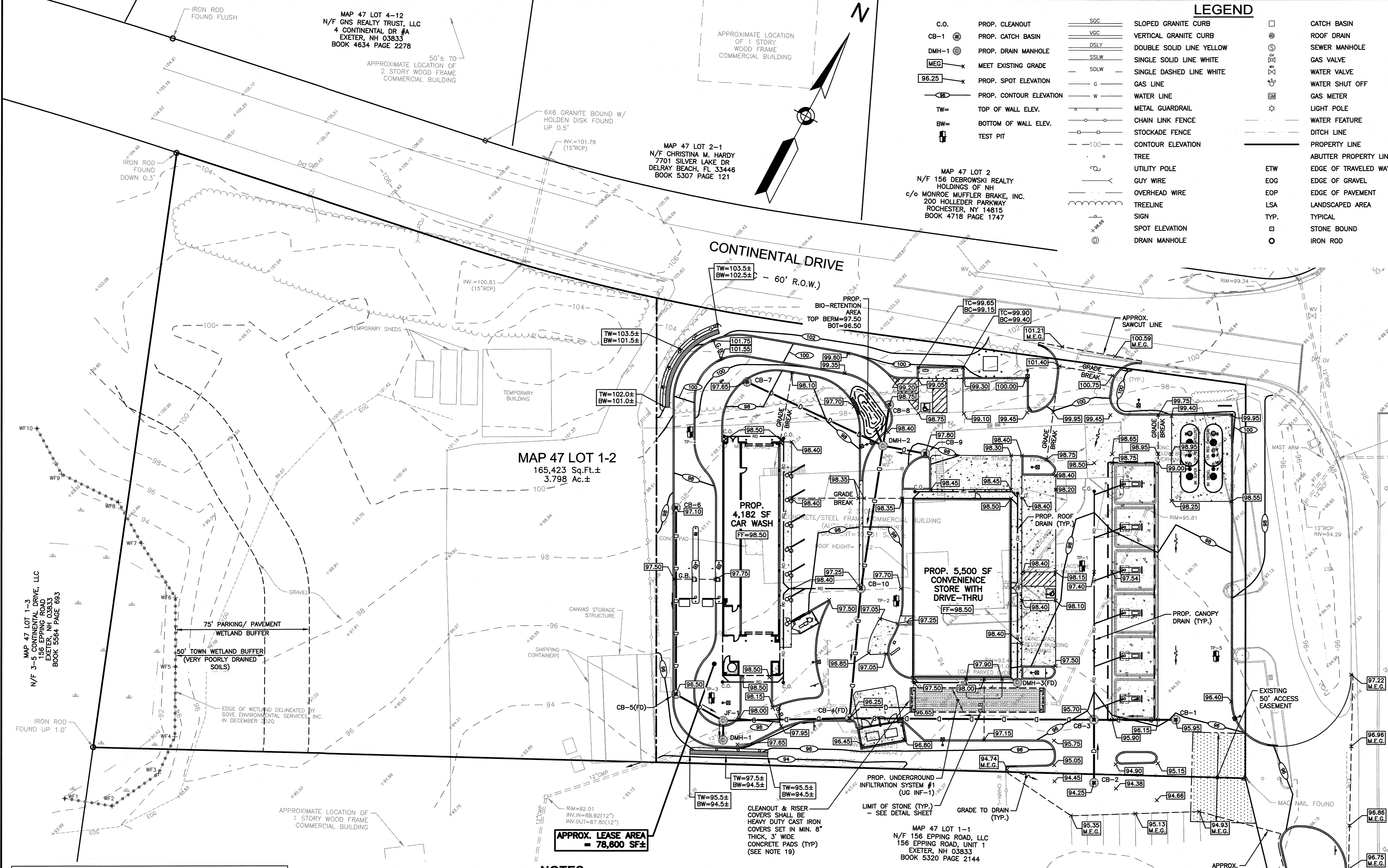
**LOCATION MAP**  
(NOT TO SCALE)

MAP 47 LOT 9  
 N/F CKT ASSOCIATES,  
 158 SHATTUCK WAY  
 NEWINGTON, NH 03801  
 BOOK 3231 PAGE 722

EPPING ROAD - ROUTE 27  
 (PUBLIC - VARIABLE WIDTH)

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

SCALE: 1" = 30'



**LEGEND**

- |       |                         |      |                          |     |                       |
|-------|-------------------------|------|--------------------------|-----|-----------------------|
| C.O.  | PROP. CLEANOUT          | SSC  | SLOPED GRANITE CURB      | □   | CATCH BASIN           |
| CB-1  | PROP. CATCH BASIN       | VSC  | VERTICAL GRANITE CURB    | ⊗   | ROOF DRAIN            |
| DMH-1 | PROP. DRAIN MANHOLE     | DSLY | DOUBLE SOLID LINE YELLOW | ⊙   | SEWER MANHOLE         |
| MEG   | MEET EXISTING GRADE     | SSLY | SINGLE SOLID LINE WHITE  | ⊕   | GAS VALVE             |
| 96.25 | PROP. SPOT ELEVATION    | SDLW | SINGLE DASHED LINE WHITE | ⊗   | WATER VALVE           |
| 96    | PROP. CONTOUR ELEVATION | G    | GAS LINE                 | ⊕   | WATER SHUT OFF        |
| TW    | TOP OF WALL ELEV.       | W    | WATER LINE               | ⊗   | GAS METER             |
| BW    | BOTTOM OF WALL ELEV.    | M    | METAL GUARDRAIL          | ⊕   | LIGHT POLE            |
| ⊕     | TEST PIT                | CL   | CHAIN LINK FENCE         | ⊗   | WATER FEATURE         |
|       |                         | ST   | STOCKADE FENCE           | ⊕   | DITCH LINE            |
|       |                         | 100  | CONTOUR ELEVATION        | ⊗   | PROPERTY LINE         |
|       |                         | T    | TREE                     | ⊕   | ABUTTER PROPERTY LINE |
|       |                         | U    | UTILITY POLE             | ⊗   | EDGE OF TRAVELED WAY  |
|       |                         | G    | GUY WIRE                 | ⊕   | EDGE OF GRAVEL        |
|       |                         | OW   | OVERHEAD WIRE            | ⊗   | EDGE OF PAVEMENT      |
|       |                         | TL   | TREELINE                 | LSA | LANDSCAPED AREA       |
|       |                         | S    | SPOT ELEVATION           | TYP | TYPICAL               |
|       |                         | DM   | DRAIN MANHOLE            | □   | STONE BOUND           |
|       |                         | ○    |                          | ○   | IRON ROD              |

**DRAINAGE PIPE SCHEDULE**

FROM STRUCTURE NUMBER	PIPE SIZE (INCHES)	TYPE OF PIPE	APPROX. PIPE LENGTH (FEET)	SLOPE OF PIPE (FT./FT.)	TO STRUCTURE NUMBER
CB-1	12	HDPE	46	0.013	CB-3
CB-2	12	HDPE	35	0.006	CB-3
CB-3	12	HDPE	137	0.006	CB-4(FD)
CB-4(FD)	12	HDPE	71	0.006	JF-1
CB-5(FD)	12	HDPE	30	0.013	JF-1
CB-6	12	HDPE	104	0.011	CB-5(FD)
CB-7	12	HDPE	84	0.010	DMH-2
CB-8	12	HDPE	23	0.017	DMH-2
CB-9	12	HDPE	24	0.021	DMH-2
CB-10	12	HDPE	73	0.026	CB-4(FD)
DMH-2	12	HDPE	81	0.015	CB-10
DMH-3(FD)	12	HDPE	4	0.018	UG INF.-IN
JF-1	12	HDPE	11	0.009	DMH-1
RAIN GARDEN	6	HDPE	11	0.059	DMH-2
UG INF.-SITE	6	HDPE	86	0.020	CB-4(FD)

**DRAINAGE STRUCTURES**

CB-1 RIM=95.95 INV.OUT=91.95	CB-9 RIM=97.80 INV.OUT=94.30
CB-2 RIM=94.25 INV.OUT=91.55	CB-10 RIM=97.25 INV.IN=92.50(DMH-2) INV.OUT=92.40
CB-3 RIM=95.70 INV.IN=91.34(CB-1) INV.IN=91.34(CB-2) INV.OUT=91.24	DMH-1 RIM=97.55 INV.IN=89.70(JF-1) INV.OUT=89.65
CB-4(FD) RIM=96.25 INV.IN=90.42(CB-3) INV.IN=90.50(CB-10) INV.IN=94.35(CB-8) INV.IN=95.35(RAIN GARDEN) INV.OUT=90.32	DMH-2 RIM=98.35 INV.IN=93.80(CB-7) INV.IN=93.80(CB-9) INV.IN=94.35(CB-8) INV.IN=95.35(RAIN GARDEN) INV.OUT=93.70
CB-5(FD) RIM=96.50 INV.IN=92.00(CB-6) INV.OUT=91.90	DMH-3(FD) RIM=97.60 INV.IN=93.50(RO) INV.OUT=93.40
CB-6 RIM=97.10 INV.OUT=93.10	JELLYFISH FILTER (JF-1) RIM=98.30 INV.IN=91.50(CB-5(FD)) INV.IN=89.90(CB-4(FD)) INV.OUT=89.80 (SEE DETAIL)
CB-7 RIM=97.65 INV.OUT=94.65	CB-8 RIM=98.55 INV.OUT=94.75

UNDERGROUND INFILTRATION SYSTEM-1 (UG INF.-1)  
 12" PERF. HDPE PIPES  
 8 ROWS X 70 LF/ROW WITH 2 HEADER PIPES  
 S=0.000 FT/FT  
 INV.IN=93.33(DMH-3(FD))  
 INV.OUT=93.83  
 INV.PIPE=93.33  
 BOT.STONE=93.00  
 (SEE DETAIL)

FD) DENOTES FIRST DEFENSE FD-4-HC UNIT OR APPROVED EQUIV (SEE DETAIL)

○ DENOTES LOW PROFILE FRAME, GRATE & TOP SLAB

**NOTES:**

- ALL SITE DRAINAGE PIPE SHALL BE CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE WITH STANDARD JOINTS, DUAL-WALL, SMOOTH INTERIOR, AS MANUFACTURED BY ADS, INC. OR APPROVED EQUAL, UNLESS OTHERWISE NOTED ON PLAN. THE UNDERGROUND DETENTION SYSTEM SHALL HAVE WATER TIGHT JOINTS MEETING ASTM D3212 SPECIFICATIONS.
- ALL ROOF AND CANOPY DRAIN PIPE SHALL BE 6" PVC (SDR-35).
- ROOF DRAIN TIE-INS AND ALL DRAIN LINES WILL BE INSPECTED PRIOR TO BACKFILL AND PAVING.
- ELEVATIONS ARE BASED ON NAVD83 DATUM.
- ALL PROPOSED ELEVATIONS AS SHOWN ARE BOTTOM OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.
- ANY UTILITY FIELD ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND COORDINATED WITH THE APPROPRIATE LOCAL UTILITY COMPANY.
- THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES. FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE, OR ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- ALL CONSTRUCTION SHALL CONFORM TO MUNICIPAL DPW AND ALL APPLICABLE STATE AND FEDERAL STANDARDS.
- THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIG-SAFE (DIAL 811) PRIOR TO COMMENCING ANY EXCAVATION.
- THIS SITE WILL REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE SITE CONSTRUCTION SINCE THE DISTURBANCE EXCEEDS ONE ACRE (ACTUAL DISTURBANCE = 94,000 SF<sup>2</sup>). THE CONSTRUCTION SITE OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH SHALL REMAIN ON SITE AND MADE ACCESSIBLE TO THE PUBLIC. A COMPLETED NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO NPDES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET: FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE, OR ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- ANY UTILITIES TO BE TAKEN OUT OF SERVICE SHALL BE DISCONNECTED AS DIRECTED BY UTILITY COMPANY AND LOCAL DPW.

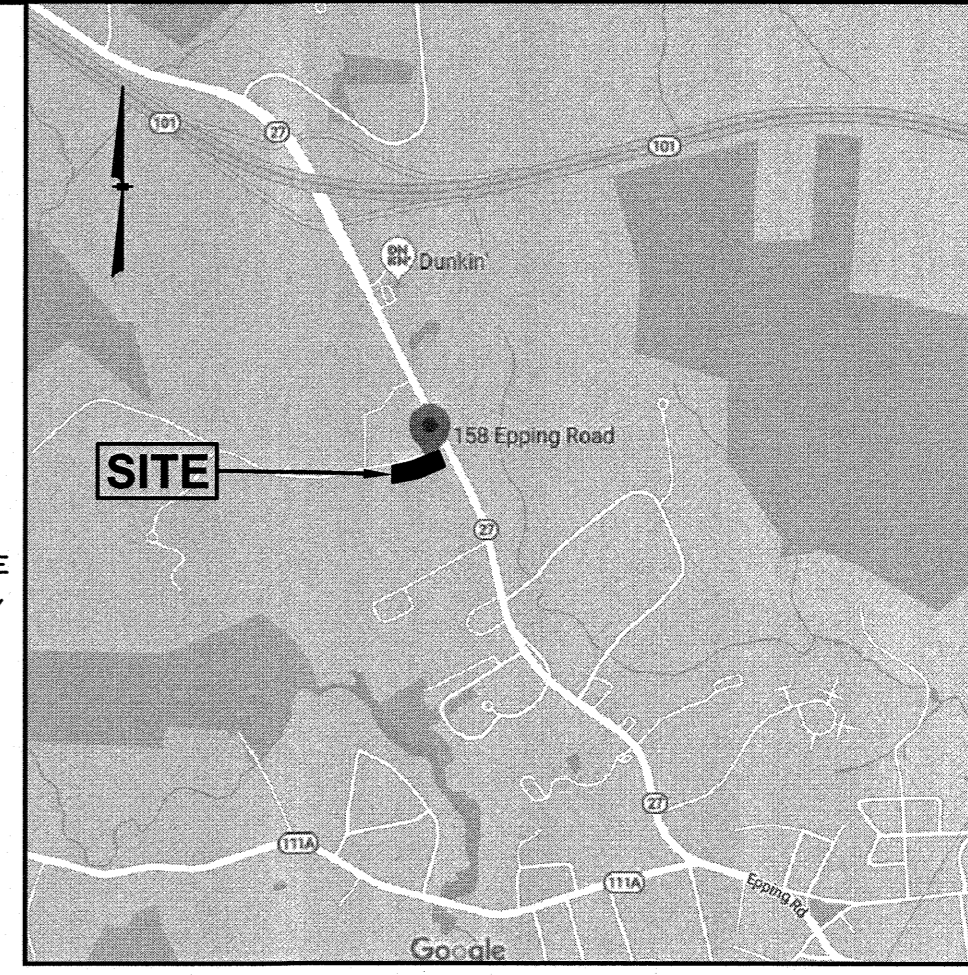
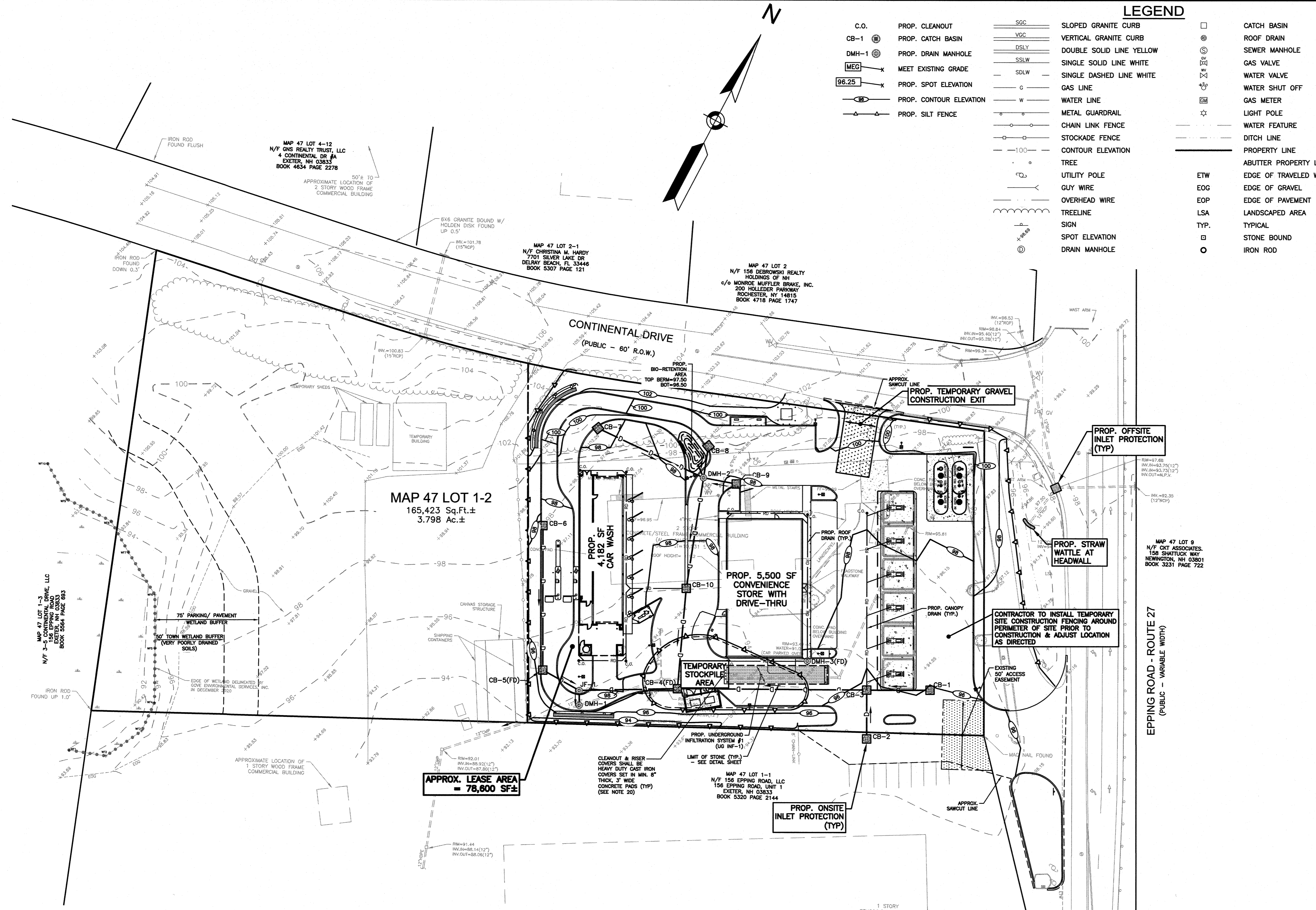
- ALL TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION SIGNAGE ARRANGEMENTS, ACCEPTABLE TO NHDOT AND EXETER DEPARTMENT OF PUBLIC WORKS, SHALL BE EMPLOYED DURING OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY.
- ALL ADA ACCESSIBLE WALKWAYS CANNOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE. RAMPS CANNOT EXCEED 8.33% RUNNING SLOPE AND 2% CROSS SLOPE, AND HC PARKING STALLS AND ACCESS AISLES CANNOT EXCEED 2% SLOPE IN ANY DIRECTION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
- SEE UTILITY PLAN FOR DETAILED UTILITY LAYOUT.
- CONTRACTOR IS TO FIELD ADJUST GRADES FOR THE TANK PAD TO SHED WATER
- ALL PROPOSED CATCH BASINS SHALL HAVE 4" SUMPS AND OUTLETS EQUIPPED WITH "ELIMINATOR" OIL HOODS OR APPROVED EQUAL.
- ALL PIPE DATA IS CALCULATED TO CENTER OF STRUCTURE, TYP.
- CONTRACTOR TO REFER TO THE OPERATION & MAINTENANCE (O&M) MANUAL FOR STORMWATER MANAGEMENT SYSTEMS & SITE MAINTENANCE DURING AND AFTER CONSTRUCTION.
- CONTRACTOR TO INSTALL RISER STRUCTURES AT EACH CORNER OF UNDERGROUND INFILTRATION SYSTEM AND CLEANOUTS AT EACH END OF EACH ROW TO PROVIDE ACCESS POINTS FOR CLEANING AND MAINTENANCE.
  - TOTAL RISERS PROPOSED = 4
  - TOTAL CLEANOUTS PROPOSED = 8
- ALL WATER, SEWER, ROAD (INCLUDING PARKING LOT), AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.5 GRADING, DRAINAGE, AND EROSION & SEDIMENT CONTROL AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES IN EXETER, NEW HAMPSHIRE.





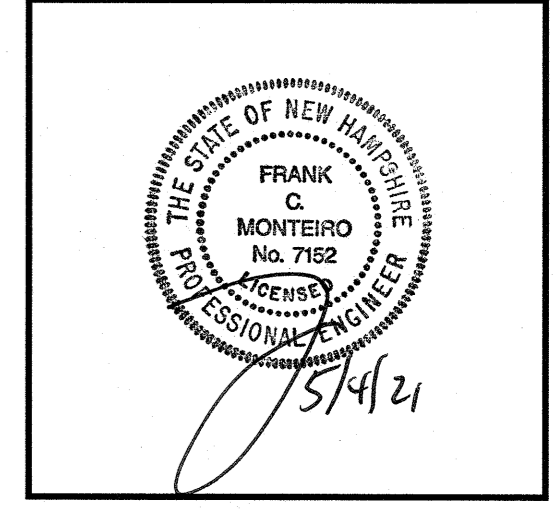






PREPARED FOR NOURIA ENERGY CORPORATION 326 CLARK STREET WORCESTER, MA 01606

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



LEGEND table with symbols for various features like catch basins, manholes, fences, and utility poles.

LOCATION MAP (NOT TO SCALE)

WINTER STABILIZATION NOTES:

- Maintenance requirements and winter stabilization notes detailing erosion control during winter months.

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 DISTURBANCE.

CONSTRUCTION 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.

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.

Table with columns for Permanent Seed Mix, Temporary Seed Mix, and Total, listing various seed types and their quantities.

REVISIONS table with columns for NO., REVISION, and DATE.

APRIL 20, 2021
DRAWN/DESIGN BY: CCC/CMT
CHECKED BY: FCM
OWNER OF RECORD: Nouria Energy Corporation
SCALE: 1"=40'
PROJECT NO: NEX-2020283
7 OF 13

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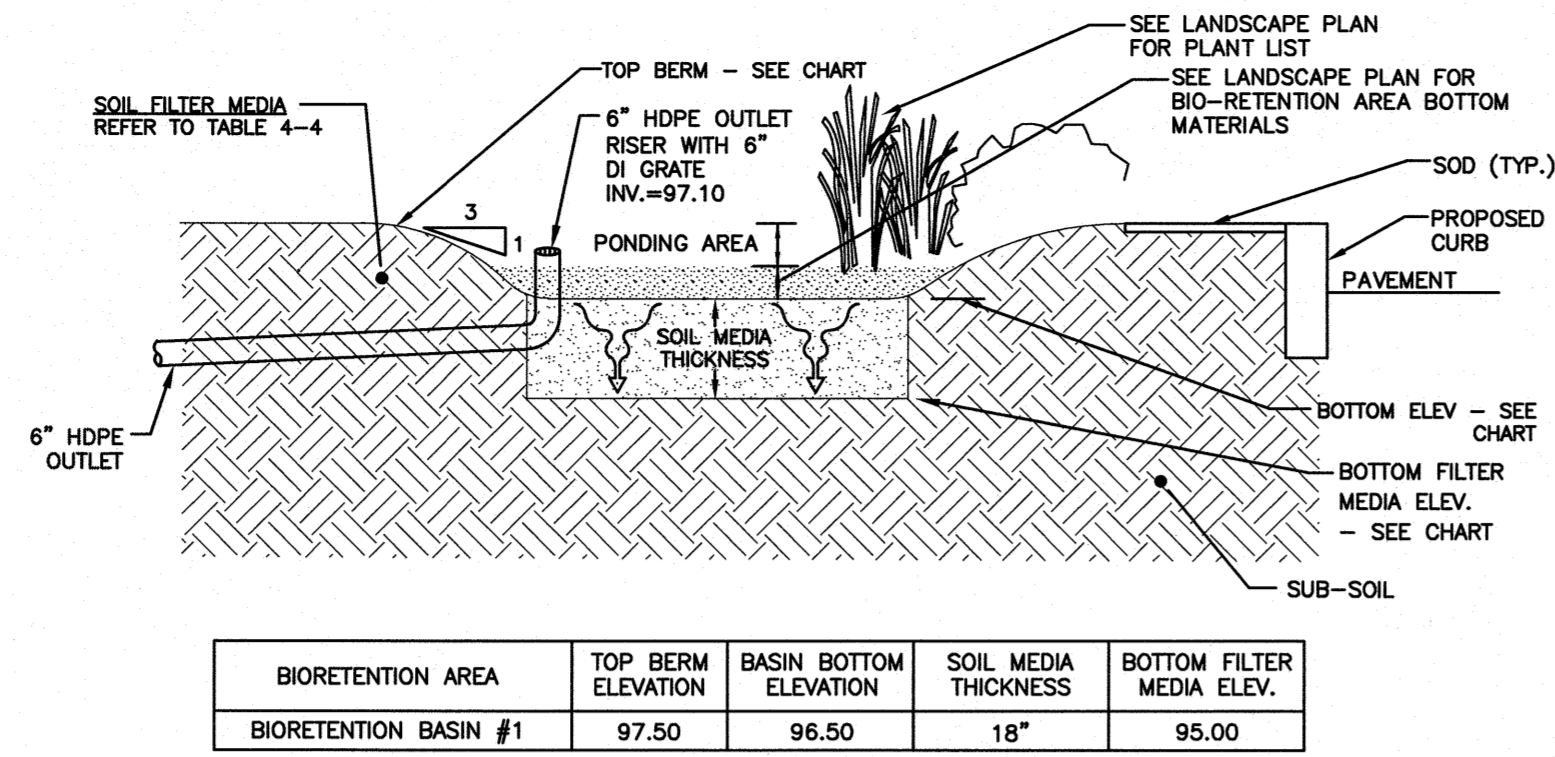




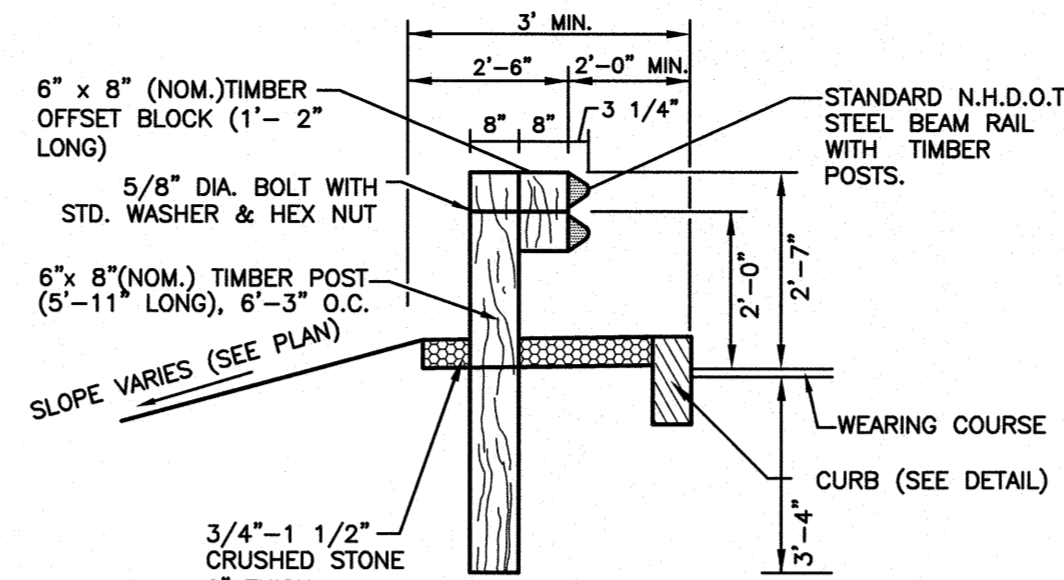
Component Material	Percent of Mixture by Volume	Sieve No.	Gradation of Material Percent by Weight Passing Standard Sieve
<b>Filter Media Option A</b>			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
<b>Filter Media Option B</b>			
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
	70 to 80	10	85 to 100
		20	70 to 100
		60	15 to 40
Loamy coarse sand		200	8 to 15

NOTES:  
FOR ADDITIONAL INFORMATION REFER TO THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 2, POST-CONSTRUCTION BEST MANAGEMENT PRACTICES, DECEMBER 2008.

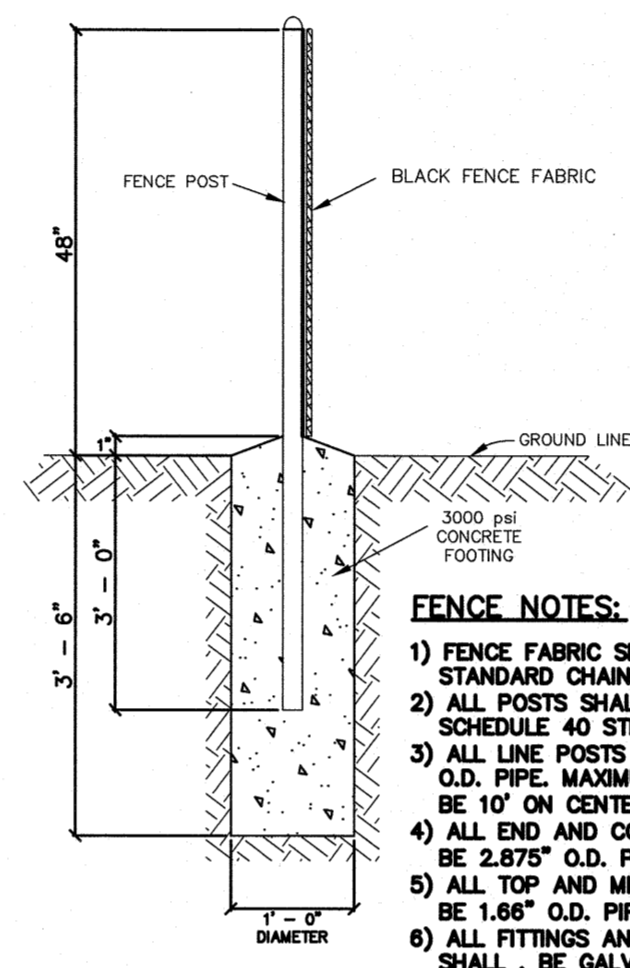
**SCHEMATIC BIO-RETENTION AREA DETAIL**  
NOT TO SCALE



BIOMETENTION AREA	TOP BERM ELEVATION	BASIN BOTTOM ELEVATION	SOIL MEDIA THICKNESS	BOTTOM FILTER MEDIA ELEV.
BIOMETENTION BASIN #1	97.50	96.50	18"	95.00

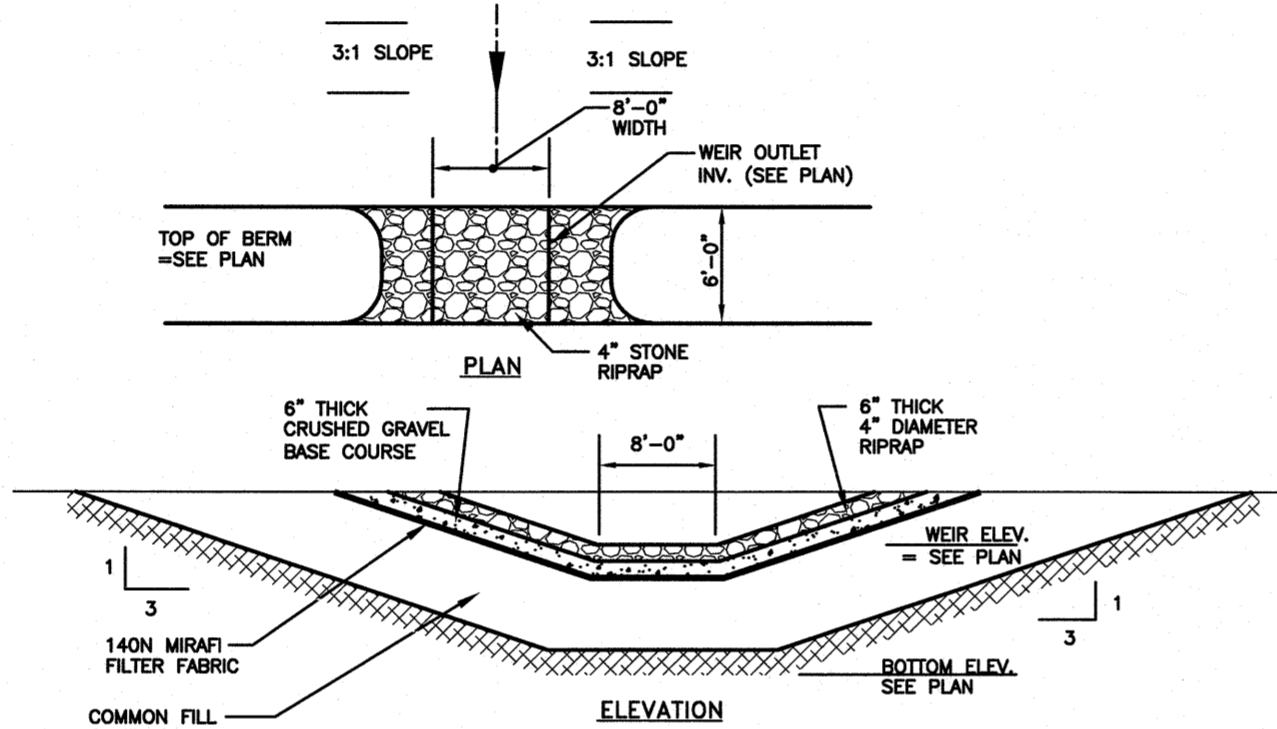


**GUARD RAIL DETAIL ALONG RETAINING WALL**  
NOT TO SCALE

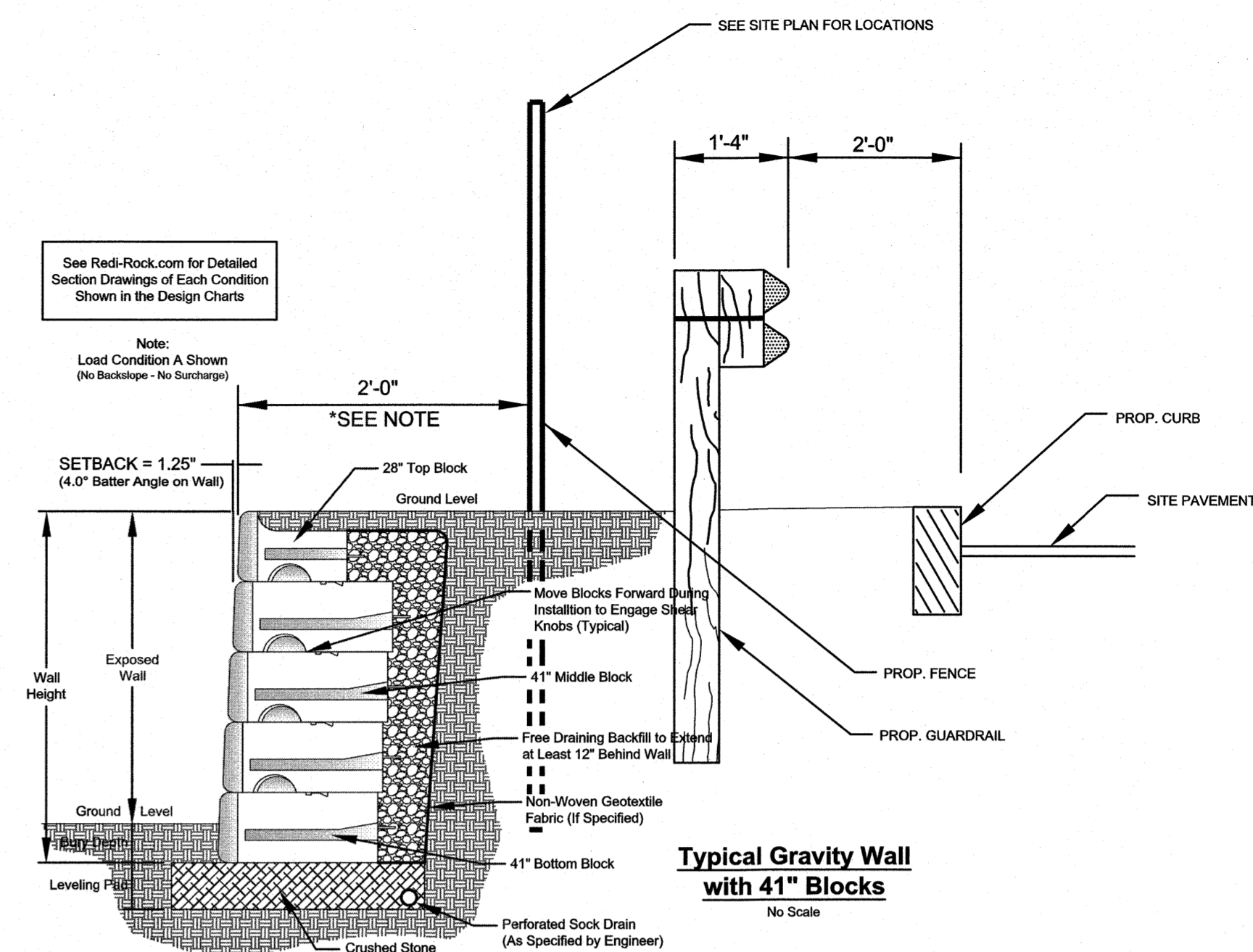


**CHAIN LINK FENCE DETAIL**  
NOT TO SCALE

- FENCE NOTES:**
- 1) FENCE FABRIC SHALL BE STANDARD CHAIN LINK.
  - 2) ALL POSTS SHALL BE GALVANIZED SCHEDULE 40 STEEL PIPE.
  - 3) ALL LINE POSTS TO BE 2.375\"/>



**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE



**Typical Gravity Wall with 41\"/>**

**TYPICAL \"REDI-ROCK\" RETAINING WALL SECTION**  
NOT TO SCALE

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING INSPECTOR FOR APPROVAL, PRIOR TO START OF CONSTRUCTION, A RETAINING WALL DESIGN UTILIZING THE \"REDI-ROCK\" WALL (OR APPROVED EQUAL), PREPARED BY AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER CONFORMING TO LOCAL, STATE AND FEDERAL REQUIREMENTS.

**GPI**

**TEST PIT DATA**

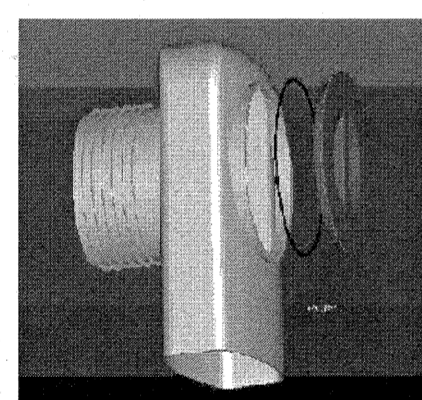
Client: Nouria Energy Corporation  
Project Address: 158 Epping Road  
Town, State: Exeter, NH  
Job Number: NEX-2020283  
Date: April 6, 2021  
Performed by: Diane Pantemoller

Test Pit No.	ESHWT:	Refusal:	Depth	Horizon	Soil Texture	Color	Consistence	SCS Soil:	Standing Water:	Roots:	Mottles:	Quantity/Contrast
1	52"	>104"	0-52"	Fill/pavement	Mixed Soils	Variable	Platy	Urban Land	None	None	@52"	Distinct
2	44"	>117"	0-22"	Fill/pavement	Mixed Soils	Variable	Platy	Urban Land	None	None	@44"	Distinct
3	42"	>108"	0-36"	Fill	Mixed Soils	Variable	Platy	Scitico Silt Loam	104"	None	@42"	Distinct
4	24"	56"	0-24"	Fill	Mixed Soils	Variable	Platy	Scitico Silt Loam	None	None	@24"	Distinct
5	48"	>102"	0-21"	Fill	Mixed Soils	Variable	FR	Squamscott	60"	None	@48"	Distinct

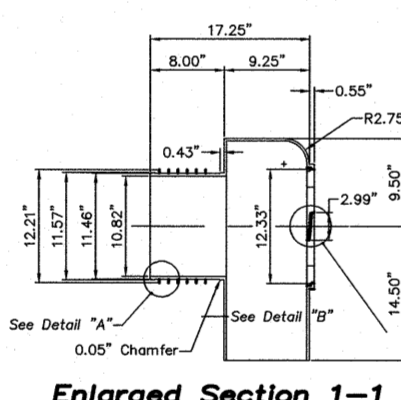
NOTES

**TEST PIT LOGS**

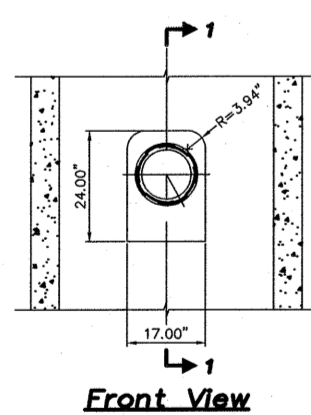
Greenman-Pedersen, Inc. 44 Siles Road, Suite One Salem, NH 03079 p 603-893-0720



Enlarged Section 2-2

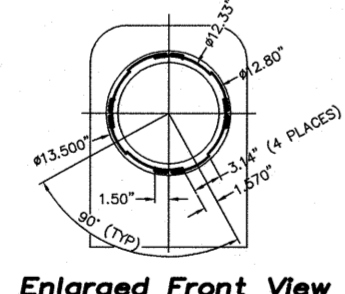


Enlarged Section 1-1

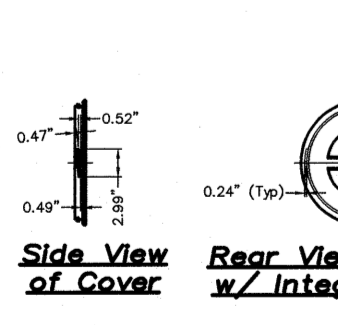


Front View

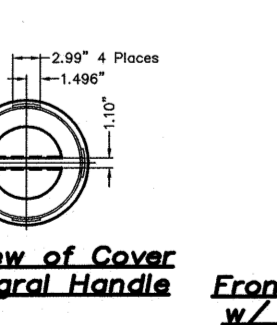
**THE ELIMINATOR CATCH BASIN OIL & DEBRIS TRAP**



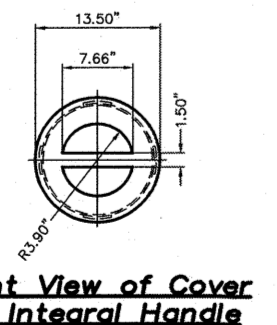
Enlarged Front View



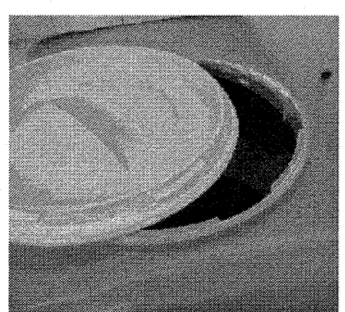
Side View of Cover



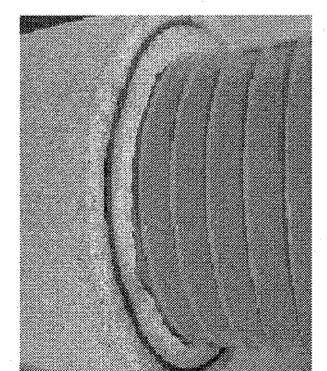
Rear View of Cover w/ Integral Handle



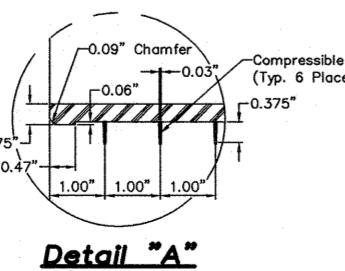
Front View of Cover w/ Integral Handle



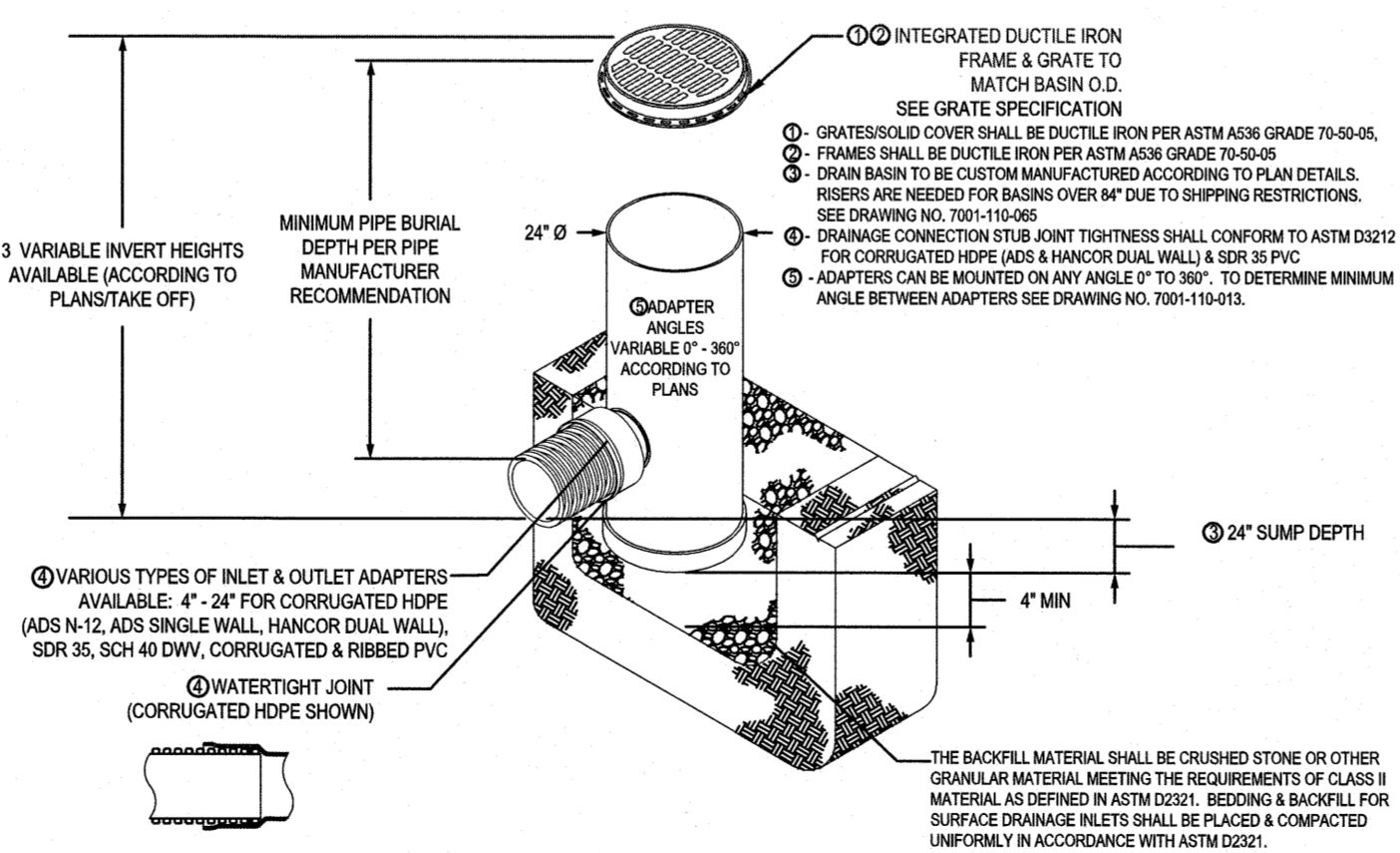
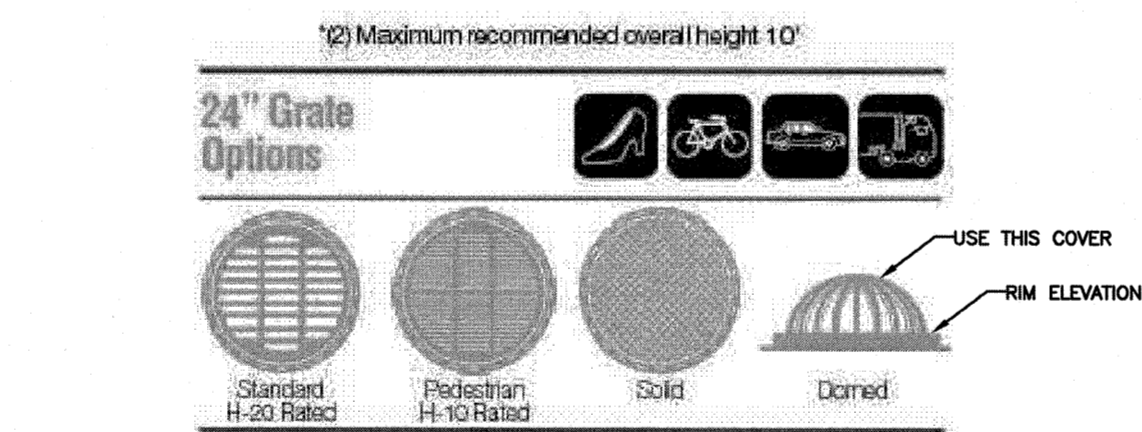
Section 1-1



Section 1-1



Detail \"/>



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DATE: 4-3-08  
MATERIAL: NYLOPLAST  
PROJECT NO: NAME  
DATE: 4-3-08  
DWG SIZE: A  
SCALE: 1/40  
SHEET: 1 OF 1  
DWG NO: 7001-110-062  
REV: B

3134 VERONA AVE  
BOSTON, MA 02118  
PHN (778) 932-2443  
FAX (778) 932-2449  
WWW.NYLOPLAST.COM

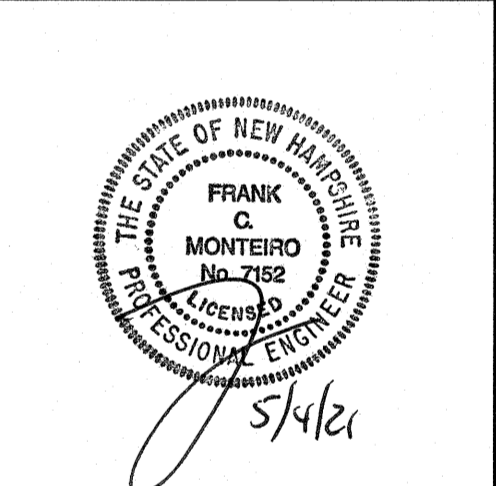
**Nyloplast**  
24 IN DRAIN BASIN QUICK INSTALLATION DETAIL

**YARD DRAIN DETAIL**  
NOT TO SCALE

**GPI** Engineering Design Planning Construction Management  
603.893.0720 GPINET.COM  
Greenman-Pedersen, Inc.  
44 Siles Road, Suite One  
Salem, NH 03079

PREPARED FOR  
**NOURIA ENERGY CORPORATION**  
326 CLARK STREET  
WORCESTER, MA 01606

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



**REVISIONS**

NO.	REVISION	DATE

APRIL 20, 2021  
DRAWN/DESIGN BY: CCC/CMT  
CHECKED BY: FCM

**DETAIL SHEET**

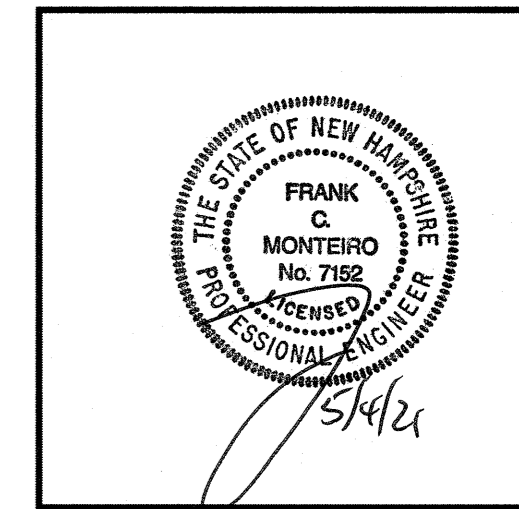
SCALE: AS NOTED  
PROJECT NO: NEX-2020283  
12 OF 13

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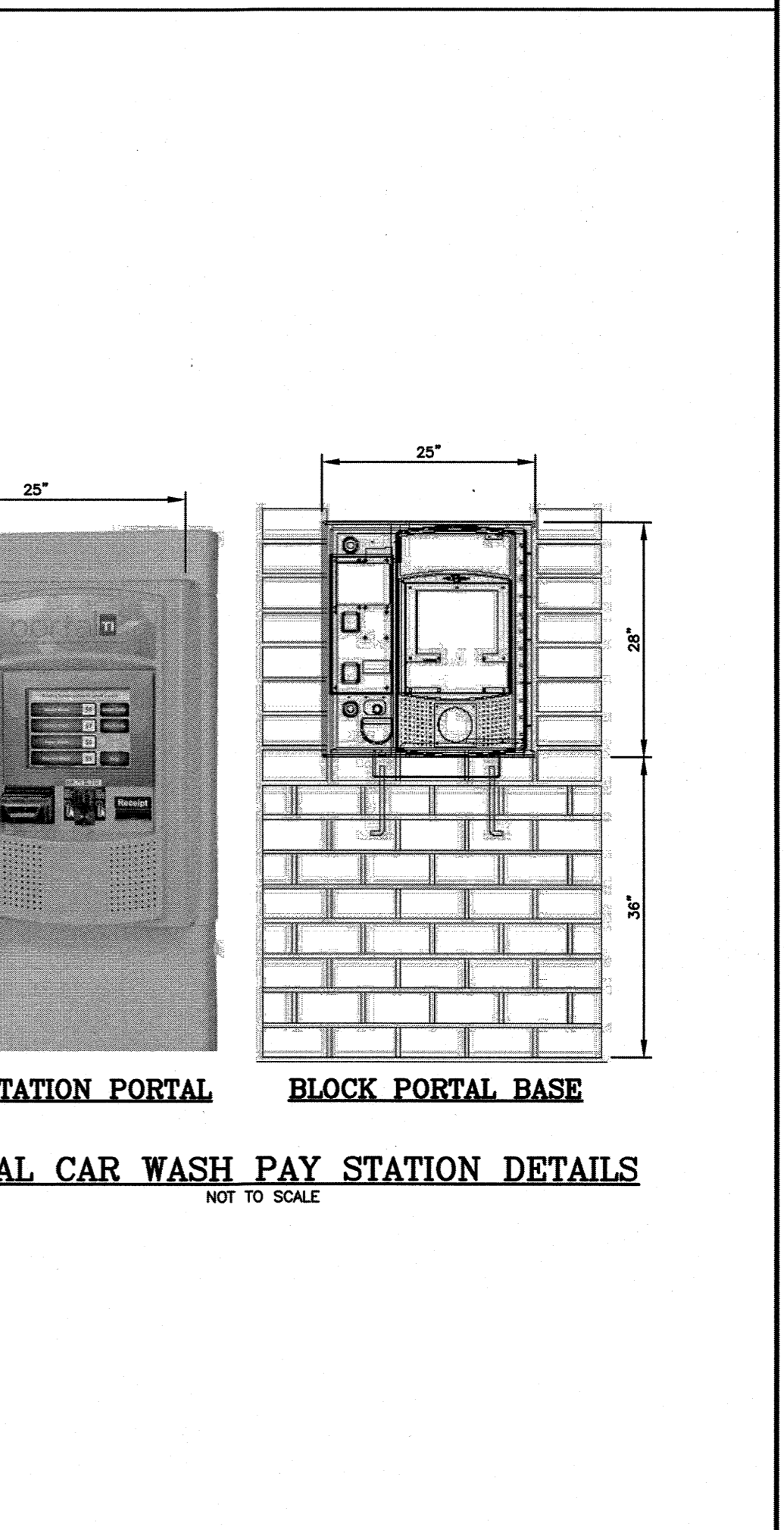
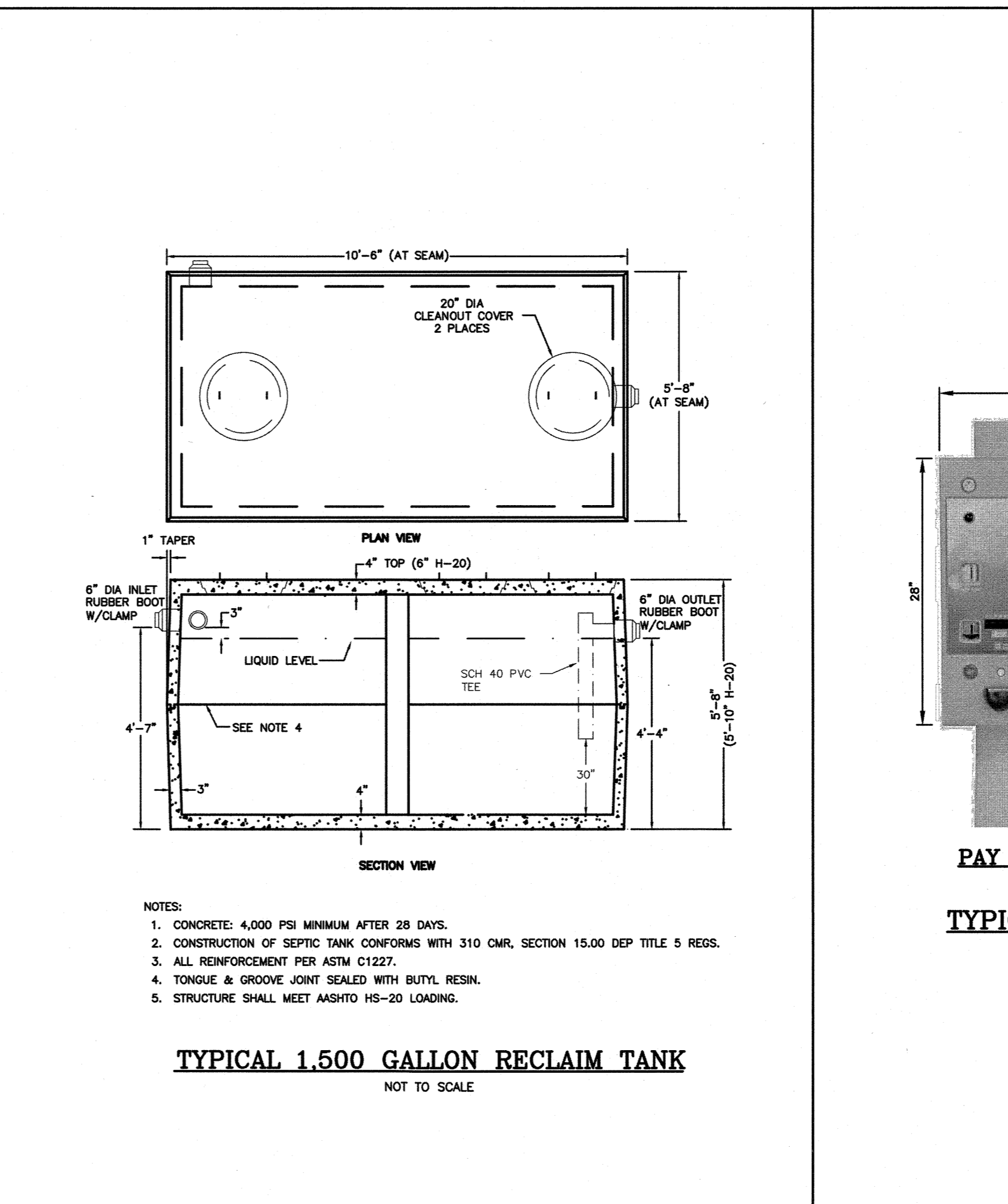
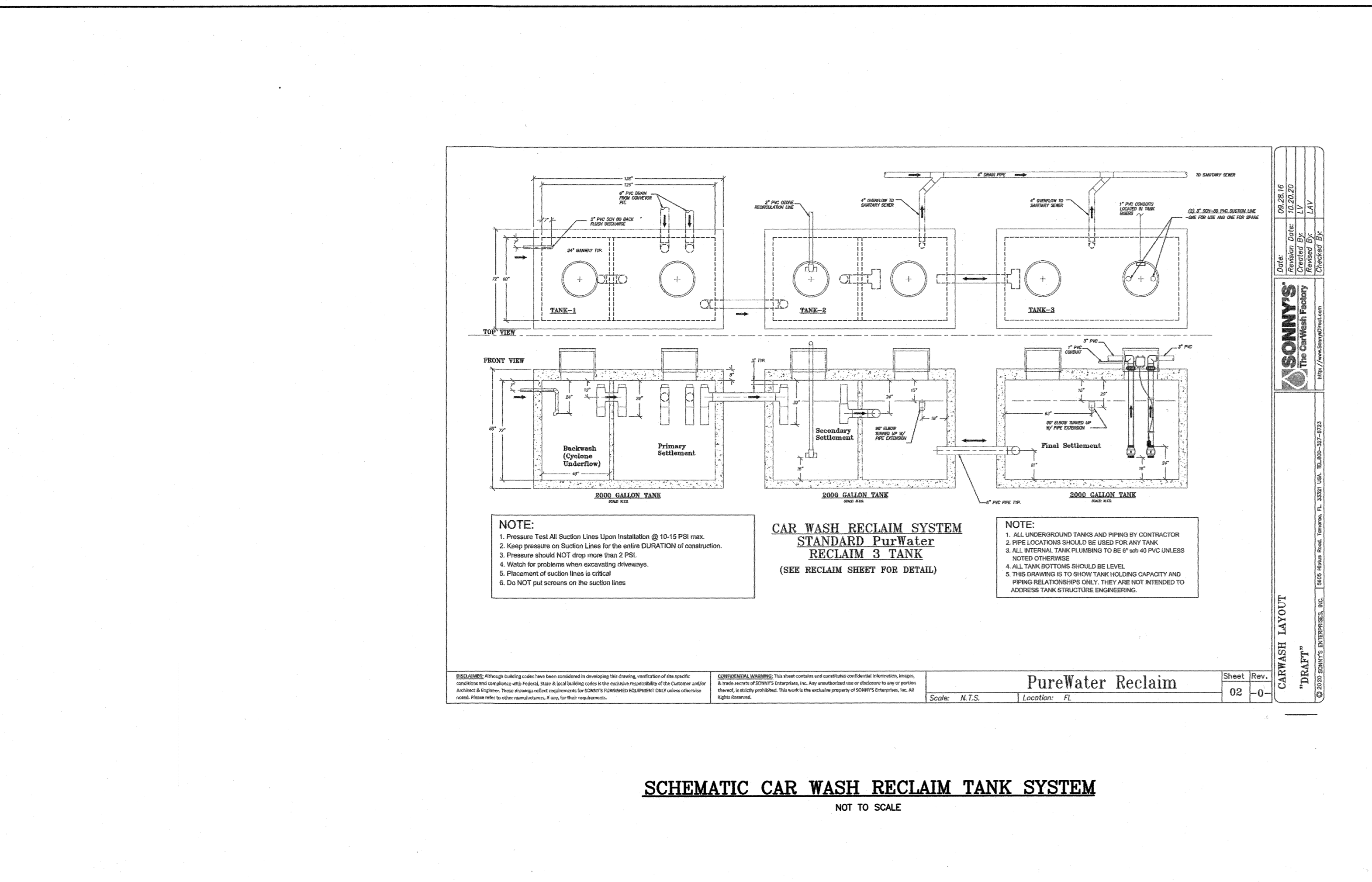
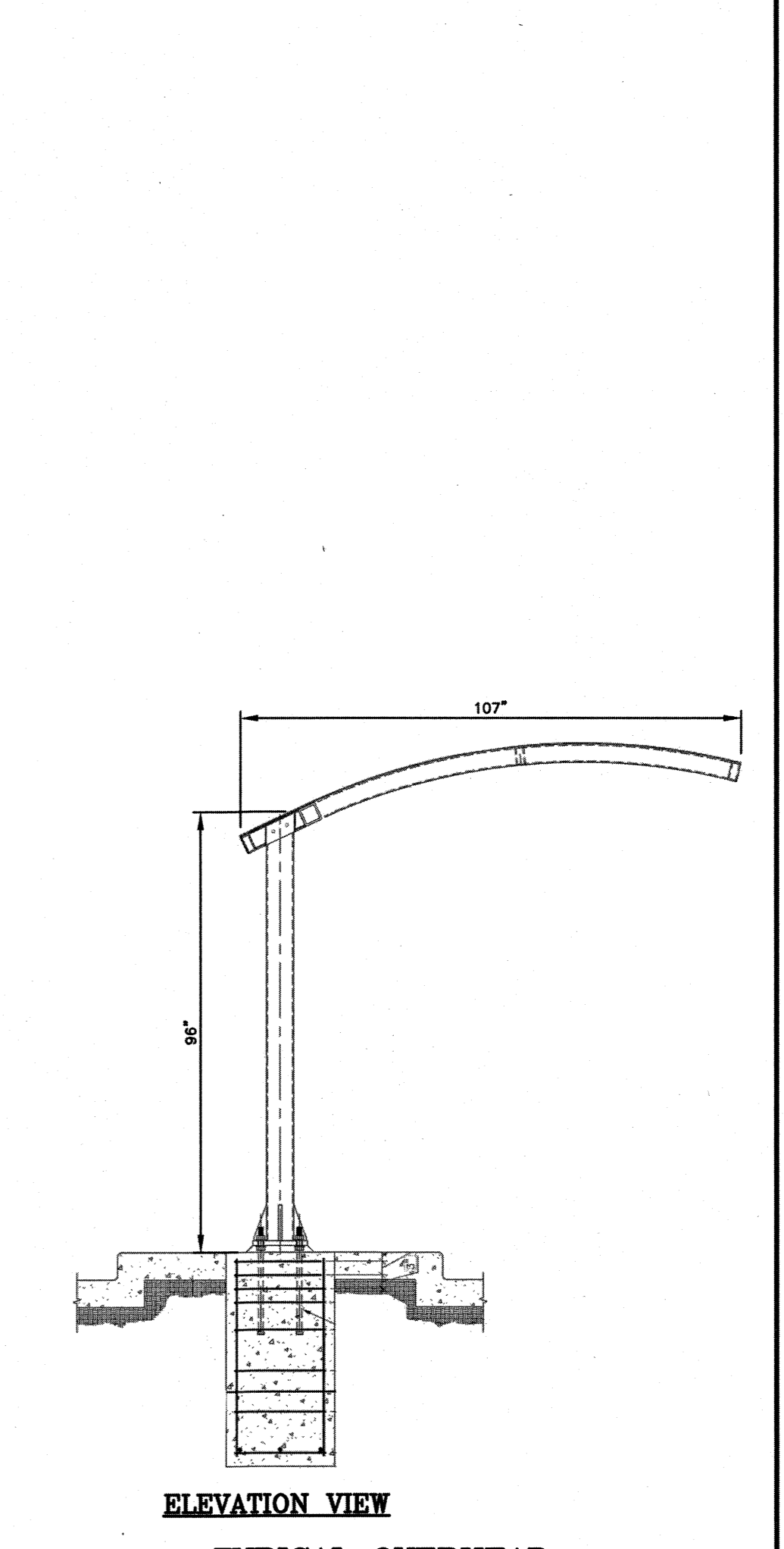
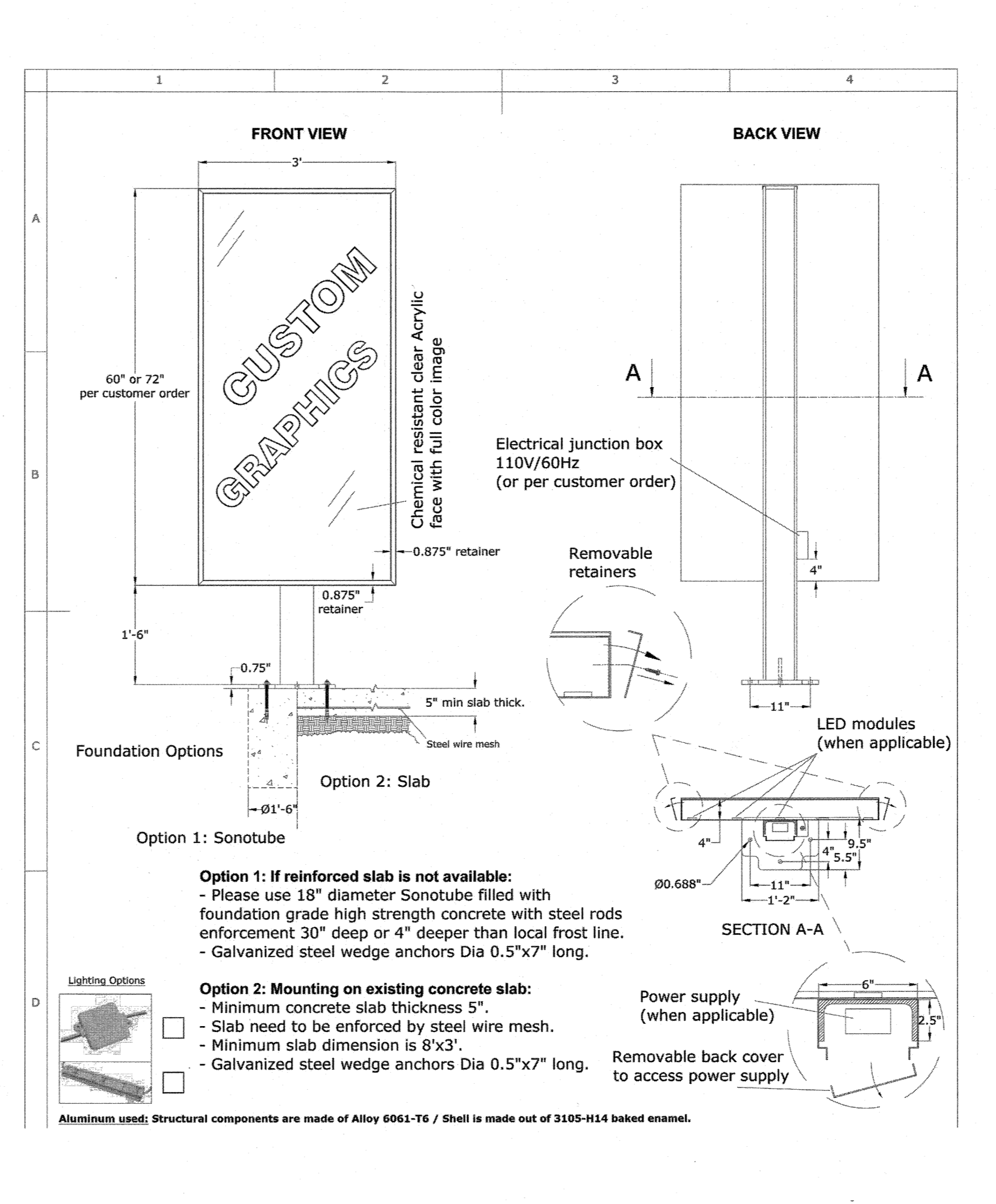
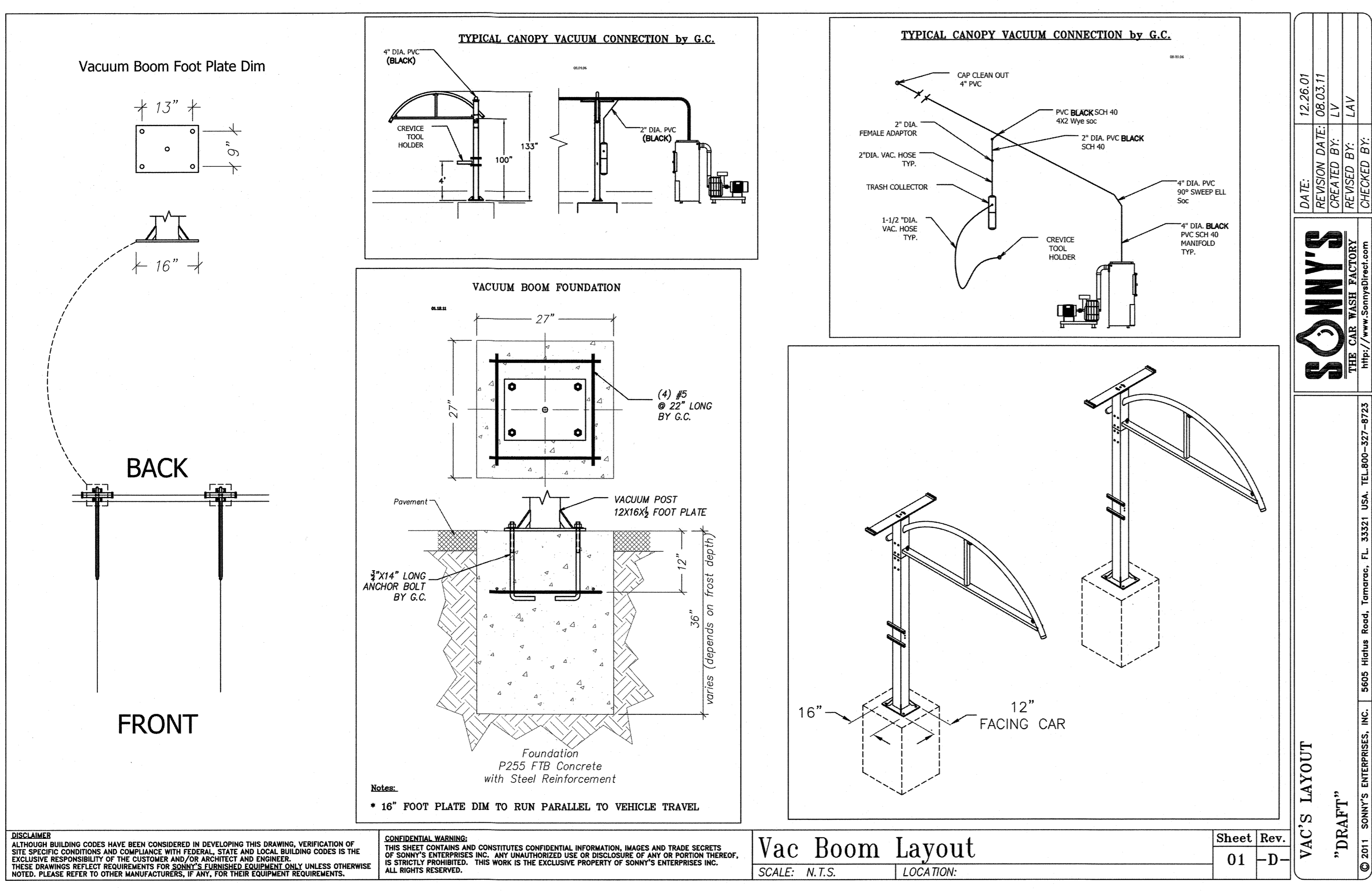




REVISIONS

NO.	REVISION	DATE

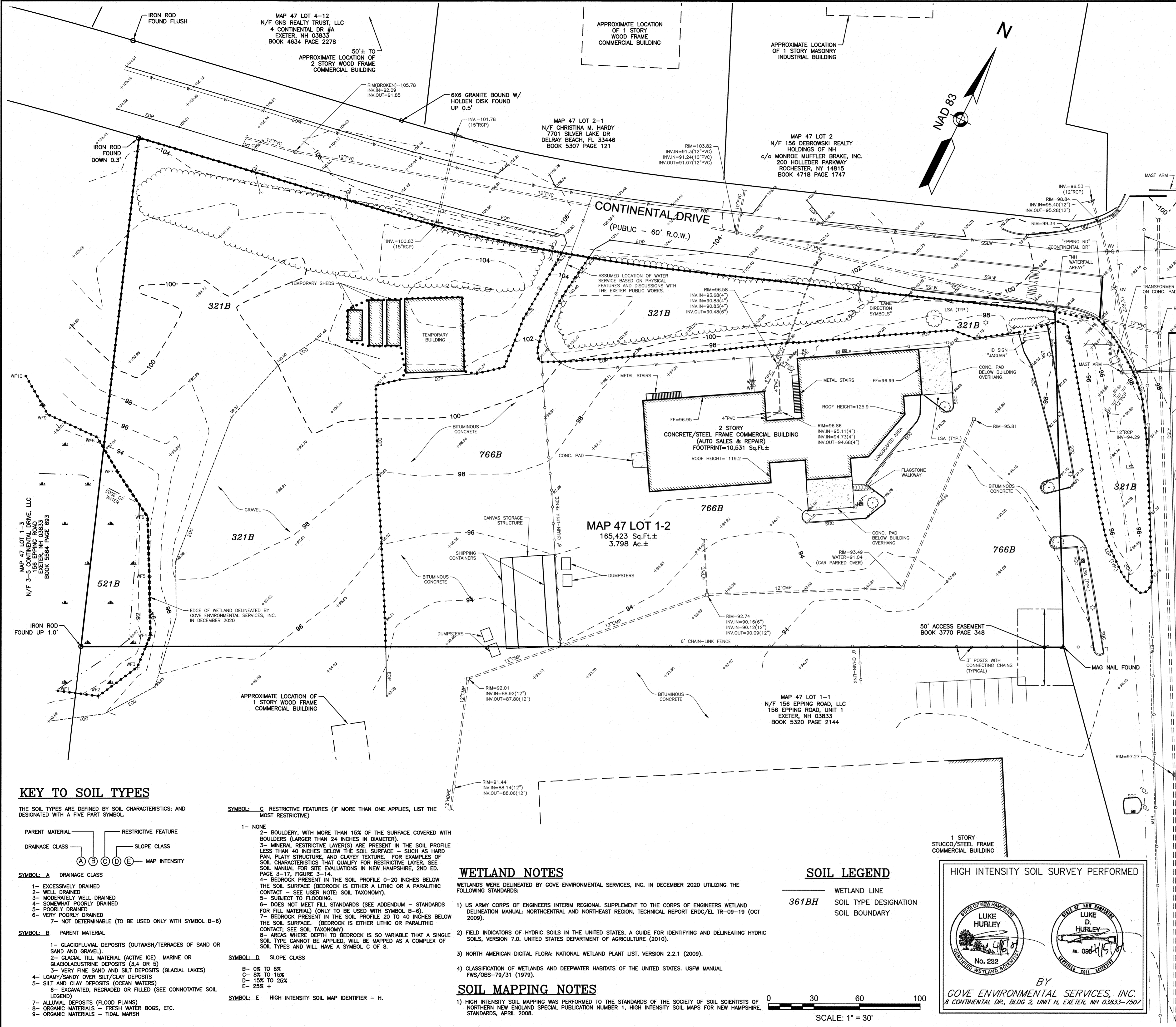
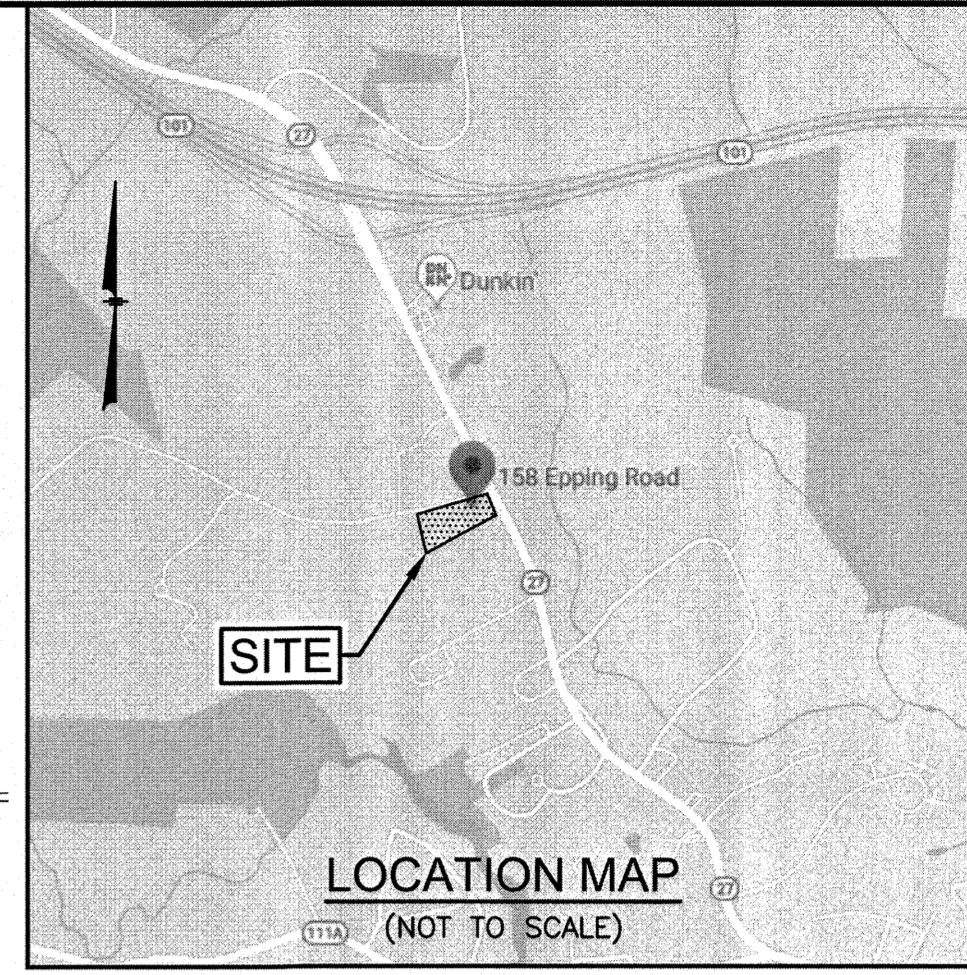
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DRAWN/DESIGN BY: CCC/CMT  
CHECKED BY: FCM



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



GAS LINES, WATER LINES, SEWER LINES ALONG EPPING ROAD WERE COMPILED FROM RECORD PLAN BY JONES & BEACH ENGINEERS AND SUPPLEMENTED WITH THE TOWN OF EXETER GIS DATA

MAP 47 LOT 9  
 N/F OHT ASSOCIATES,  
 158 SHATTUCK WAY  
 NEWINGTON, NH 03801  
 BOOK 3231 PAGE 722

**LEGEND**

SGC	SLOPED GRANITE CURB
VGC	VERTICAL GRANITE CURB
DSLW	DOUBLE SOLID LINE YELLOW
SSLW	SINGLE SOLID LINE WHITE
SDLW	SINGLE DASHED LINE WHITE
G	GAS LINE
W	WATER LINE
M	METAL GUARDRAIL
CLF	CHAIN LINK FENCE
SCF	STOCKADE FENCE
100	CONTOUR ELEVATION
T	TREE
U	UTILITY POLE
GW	GUY WIRE
OW	OVERHEAD WIRE
TL	TREELINE
S	SIGN
DM	DRAIN MANHOLE
CB	CATCH BASIN
RD	ROOF DRAIN
SM	SEWER MANHOLE
GV	GAS VALVE
WV	WATER VALVE
WSO	WATER SHUT OFF
GM	GAS METER
LP	LIGHT POLE
WF	WATER FEATURE
DL	DITCH LINE
ETW	EDGE OF TRAVELED WAY
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
LSA	LANDSCAPED AREA
SE	SPOT ELEVATION

**KEY TO SOIL TYPES**

THE SOIL TYPES ARE DEFINED BY SOIL CHARACTERISTICS, AND DESIGNATED WITH A FIVE PART SYMBOL.

**SYMBOL: A** DRAINAGE CLASS

1- EXCESSIVELY DRAINED  
 2- WELL DRAINED  
 3- MODERATELY WELL DRAINED  
 4- SOMEWHAT POORLY DRAINED  
 5- POORLY DRAINED  
 6- VERY POORLY DRAINED  
 7- NOT DETERMINABLE (TO BE USED ONLY WITH SYMBOL B-6)

**SYMBOL: B** PARENT MATERIAL

1- GLACIOFLUVIAL DEPOSITS (OUTWASH/TERRACES OF SAND OR SAND AND GRAVEL).  
 2- GLACIAL TILL MATERIAL (ACTIVE ICE) MARINE OR GLACIOFLUVIAL DEPOSITS (3,4 OR 5)  
 3- VERY FINE SAND AND SILT DEPOSITS (GLACIAL LAKES)  
 4- LOAMY/SANDY OVER SILT/CLAY DEPOSITS  
 5- SILT AND CLAY DEPOSITS (OCEAN WATERS)  
 6- EXCAVATED, REGRADED OR FILLED (SEE CONNOTATIVE SOIL LEGEND)  
 7- ALLUVIAL DEPOSITS (FLOOD PLAINS)  
 8- ORGANIC MATERIALS - FRESH WATER BOGS, ETC.  
 9- ORGANIC MATERIALS - TIDAL MARSH

**SYMBOL: C** RESTRICTIVE FEATURES (IF MORE THAN ONE APPLIES, LIST THE MOST RESTRICTIVE)

1- NONE  
 2- BOULDERY, WITH MORE THAN 15% OF THE SURFACE COVERED WITH BOULDERS (LARGER THAN 24 INCHES IN DIAMETER).  
 3- MINERAL RESTRICTIVE LAYER(S) ARE PRESENT IN THE SOIL PROFILE LESS THAN 40 INCHES BELOW THE SOIL SURFACE - SUCH AS HARD PAN, PLATY STRUCTURE, AND CLAYEY TEXTURE. FOR EXAMPLES OF SOIL CHARACTERISTICS THAT QUALIFY FOR RESTRICTIVE LAYER, SEE SOIL MANUAL FOR SITE EVALUATIONS IN NEW HAMPSHIRE, 2ND ED. PAGE 3-17, FIGURE 3-14.  
 4- BEDROCK PRESENT IN THE SOIL PROFILE 0-20 INCHES BELOW THE SOIL SURFACE (BEDROCK IS EITHER A LITHIC OR PARALITHIC CONTACT - SEE USER NOTE: SOIL TAXONOMY).  
 5- SUBJECT TO FLOODING.  
 6- DOES NOT MEET FIELD STANDARDS (SEE ADDENDUM - STANDARDS FOR FILL MATERIAL) (ONLY TO BE USED WITH SYMBOL B-6).  
 7- BEDROCK PRESENT IN THE SOIL PROFILE 20 TO 40 INCHES BELOW THE SOIL SURFACE. (BEDROCK IS EITHER LITHIC OR PARALITHIC CONTACT; SEE SOIL TAXONOMY).  
 8- AREAS WHERE DEPTH TO BEDROCK IS SO VARIABLE THAT A SINGLE SOIL TYPE CANNOT BE APPLIED, WILL BE MAPPED AS A COMPLEX OF SOIL TYPES AND WILL HAVE A SYMBOL C OF 8.

**SYMBOL: D** SLOPE CLASS

B- 0% TO 8%  
 C- 8% TO 15%  
 D- 15% TO 25%  
 E- 25% +

**SYMBOL: E** HIGH INTENSITY SOIL MAP IDENTIFIER - H.

**WETLAND NOTES**

WETLANDS WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. IN DECEMBER 2020 UTILIZING THE FOLLOWING STANDARDS:

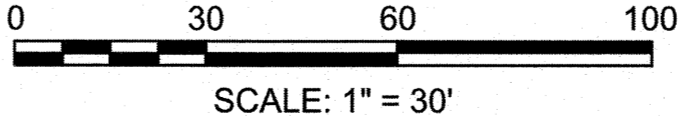
- 1) US ARMY CORPS OF ENGINEERS INTERIM REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, TECHNICAL REPORT ERDC/EL TR-09-19 (OCT 2009).
- 2) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 7.0. UNITED STATES DEPARTMENT OF AGRICULTURE (2010).
- 3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.2.1 (2009).
- 4) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES, USFW MANUAL FWS/OBS-79/31 (1979).

**SOIL MAPPING NOTES**

1) HIGH INTENSITY SOIL MAPPING WAS PERFORMED TO THE STANDARDS OF THE SOCIETY OF SOIL SCIENTISTS OF NORTHERN NEW ENGLAND SPECIAL PUBLICATION NUMBER 1, HIGH INTENSITY SOIL MAPS FOR NEW HAMPSHIRE, STANDARDS, APRIL 2008.

**SOIL LEGEND**

361BH WETLAND LINE  
 SOIL TYPE DESIGNATION  
 SOIL BOUNDARY



HIGH INTENSITY SOIL SURVEY PERFORMED

LUKE HURLEY  
 No. 292  
 CERTIFIED WETLAND SCIENTIST

LUKE D. HURLEY  
 No. 0064  
 WETLAND SCIENTIST

BY  
**GOVE ENVIRONMENTAL SERVICES, INC.**  
 8 CONTINENTAL DR., BLDG 2, UNIT H, EXETER, NH 03833-7507

**REVISIONS**

NO.	REVISION	DATE

APRIL 20, 2021  
 DRAWN/DESIGN BY: DPD/JAC  
 CHECKED BY: JAC

**HIGH INTENSITY SOIL SURVEY PLAN**

SCALE: 1"=30'  
 PROJECT NO. NEX-2020283  
 1 OF 1







MAP 47 LQT 1-2  
165,423 Sq.Ft.  
3.798 Ac.±

CONTINENTAL DRIVE

EPHING ROAD - ROUTE 27

LUM NO.	LABEL	MTG. HT.
1	A3	17
2	A3	17
3	A3	17
4	A3	17
5	A3	17
6	A3	17
7	A3	17
8	A3	17
9	A32	17
10	A4	17
11	C	15
12	C	15
13	C	15
14	C	15
15	C	15
16	C	15
17	C	15
18	C	15
19	C	15
20	C	15
21	C	15
22	C	15
23	C	15
24	C	15
25	C	15
26	C	15
27	C	15
28	C	15
29	C	15
30	C	15
31	C	15
32	C	15
33	C	15
34	C	15
35	W	12
36	W	12
37	W	12
38	W	12
39	W	12
40	W	12
41	W	12
42	W	12
43	W	12
44	W	12
45	W	12
46	W	12
47	W	12
48	W	12
49	W	12

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

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

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
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 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
	24	C	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

