GENERAL LEGEND

100x0

<u>गींग्</u> गींग् <u>गींग</u>

STREAM CHANNEL

MINOR CONTOUR

DRAINAGE LINE

UNDERDRAIN

DRILL HOLE

SPOT GRADE

TEST PIT PERC TEST

THRUST BLOCK

SEWER FORCE MAIN

FIRE PROTECTION LINE

IRON PIPE/IRON ROD

IRON ROD/DRILL HOLE

STONE/GRANITE BOUND

PAVEMENT SPOT GRADE

CURB SPOT GRADE

BENCHMARK (TBM) DOUBLE POST SIGN SINGLE POST SIGN

PHOTO LOCATION

UTILITY POLE

LIGHT POLES DRAIN MANHOLE SEWER MANHOLE

TRANSFORMER

RIPRAP

 \sim

STONE CHECK DAM

PAVEMENT HATCH

OPEN WATER

ENTRANCE

CONCRETE

SNOW STORAGE

RETAINING WALL

GRAVEL

HYDRANT WATER GATE WATER SHUT OFF

TREES AND BUSHES

SINGLE GRATE CATCH BASIN DOUBLE GRATE CATCH BASIN

DRAINAGE FLOW DIRECTION

WETLAND BUFFER IMPACT

VEGETATED FILTER STRIP

FRESHWATER WETLANDS

STABILIZED CONSTRUCTION

CULVERT W/FLARED END SECTION

CULVERT W/STRAIGHT HEADWALL

AQUIFER PROTECTION LINE

VERTICAL GRANITE CURB SLOPE GRANITE CURB

MIXED USE NEIGHBORHOOD DEVELOPMENT PROPERTY LINES SETBACK LINES CENTERINE FRESHWATER WEITANDS LINE FRESHWATER WEITANDS L

Know what's below

811 before you dig

TAX MAP 65 LOT 118 76 PORTSMOUTH AVENUE, EXETER, NH

SHEET INDEX

CS COVER SHEET

EXISTING CONDITIONS PLAN

D1 DEMOLITION PLAN

C2 SITE PLAN

GRADING AND DRAINAGE PLAN

C4 UTILITY PLAN

_1 LANDSCAPE PLAN (BY OTHERS)

.2 LANDSCAPE DETAIL PLAN

L3 LIGHTING PLAN

D1-D8 DETAIL SHEETS

E1-E2 EROSION AND SEDIMENT CONTROL DETAILS

CIVIL ENGINEER / SURVEYOR

JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
CONTACT: PAIGE LIBBEY, P.E.
E-MAIL: PLIBBEY@JONESANDBEACH.COM

TRAFFIC ENGINEER

TEPP LLC
93 STILES ROAD, SUITE 201
SALEM, NH 03079
(603) 212-9133
EMAIL: TEPP@TEPPLLC.COM
CONTACT: KIM HAZARVARTIAN, P.E.

WETLAND/SOILS CONSULTANT

GOVE ENVIRONMENTAL SERVICES
8 CONTINENTAL DRIVE, UNIT H
EXETER, NH 03833-7507
(603) 778-0644
CONTACT: JAMES GOVE

SCALE 1'' = 2000'

LOCUS MAP

WETLAND CONSULTANT

JOHN HAYES
7 LIMESTONE WAY
NORTH HAMPTON, NH 03862
(603) 205-4396
EMAIL: JOHNPHAYES@COMCAST.NET

LANDSCAPE DESIGNER

LM LAND DESIGN, LLC

11 SOUTH ROAD BRENTWOOD, NH 03833 (603) 770-7728 CONTACT: LISE MCNAUGHTON

WATER & SEWER

EXETER PUBLIC WORKS
13 NEWFIELDS ROAD
EXETER, NH 03833
(603) 773-6157

LIGHTING DESIGN

EXPOSURE LIGHTING
501 ISLINGTON STREET, UNIT 1A
PORTSMOUTH, NH 03801
(603) 601-8080
CONTACT: KEN SWEENEY

ELECTRIC

EVERSOURCE 265 CALEF HIGHWAY EPPING, NH 03042 (800) 662-7764

TELEPHONE

CONSOLIDATED COMMUNICATIONS 1575 GREENLAND ROAD GREENLAND, NH 03840 (603) 427-5525

PROJECT PARCEL TOWN OF EXETER TAX MAP 65, LOT 118

APPLICANT
GREEN & COMPANY
11 LAFAYETTE RD
PO BOX 1297
NORTH HAMPTON, NH 03862

TOTAL LOT AREA 291,630 SQ. FT. 6.7 ACRES

APPROVED — EXETER, NH PLANNING BOARD

DATE:

Design: MLS Draft: GDR Date: 3/15/24
Checked: WGM Scale: AS NOTED Project No.: 24029
Drawing Name: 24029-PLAN.dwg
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN
PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).
ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE
AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



	3	8/19/24	PLAN SET	KDR
	2	7/29/24	CONCEPT 3	KDR
	1	6/6/24	REVISED PER CLIENT	PSL
×	0	4/11/24	ISSUED FOR REVIEW	PSL
	REV.	DATE	REVISION	BY

Designed and Produced in NH

Jones & Beach Engineers, Inc.

85 Portsmouth Ave.
PO Box 219
Stratham, NH 03885

Designed and Produced in NH

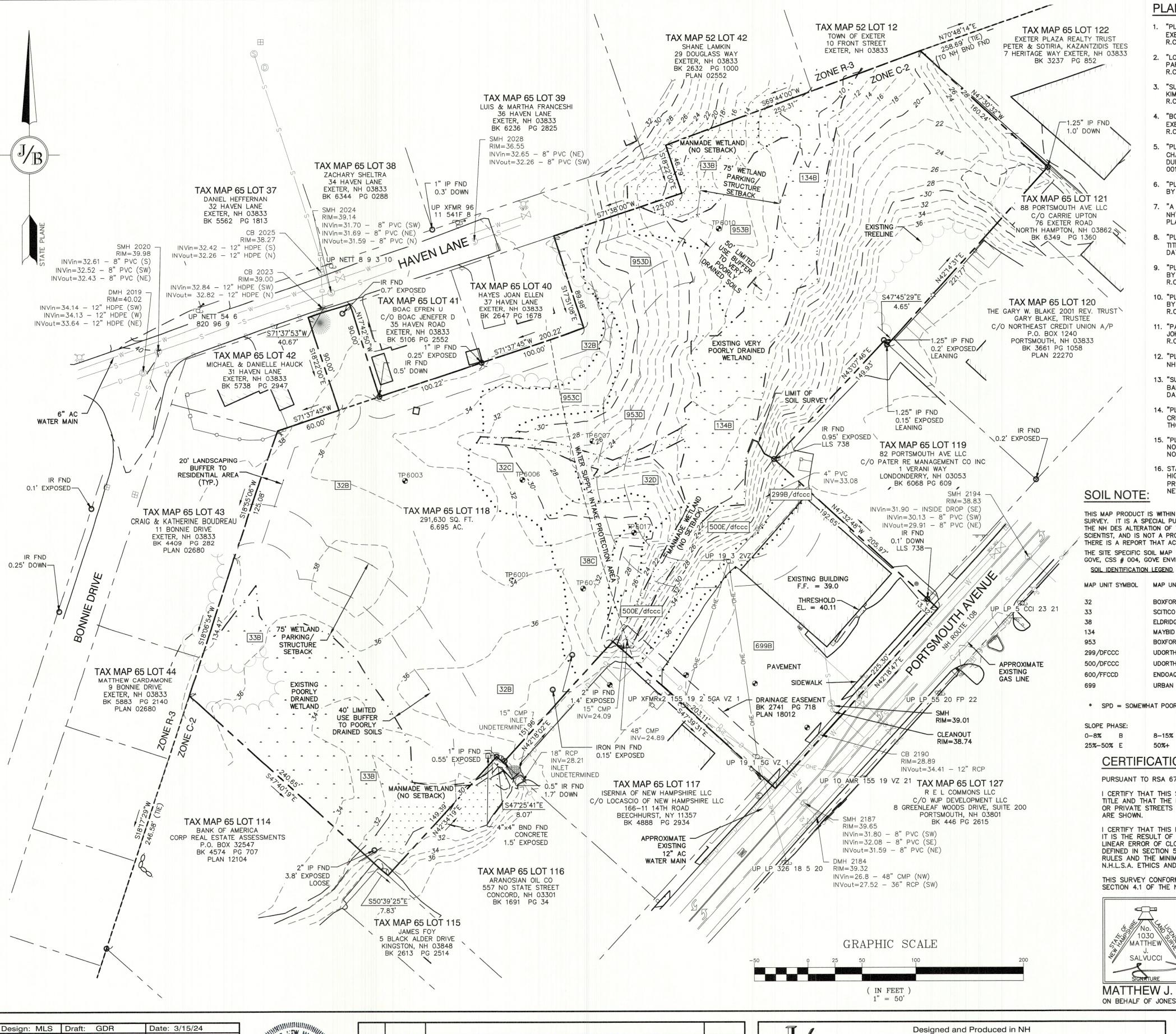
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No.

CS

SHEET 1 OF20
JBE PROJECT NO. 24029



PLAN REFERENCES

- "PLAN OF DRAINAGE EASEMENT, EXETER, NH, PREPARED FOR EXETER HOSPITAL" BY KIMBALL CHASE, DATED MAY 23, 1988. R.C.R.D. PLAN 18012.
- 2. "LOT LINE CHANGE FOR GARY W. BLAKE, EXETER, NH" BY PARKER SURVEY ASSOC., INC., DATED JANUARY 12, 1984. R.C.R.D. PLAN 12104.
- 3. "SUBDIVISION OF LAND FOR JOHN W. FLYNN, EXETER, NH" BY KIMBALL CHASE COMPANY, INC., DATED FEBUARY 11, 1988. R.C.R.D. PLAN 17605.
- 4. "BOUNDARY AND TOPOGRAPHIC PLAN FOR STAR ENTERPRISE, EXETER, NH" BY STORCH ASSOCIATES, DATED JUNE 15, 1999. R.C.R.D. PLAN 22270.
- . "PLAN OF LAND FOR HENRY & ROBERTA A. SHEPARD AND CHARLES A. & EVA S. KOIRTH, EXETER, NH" BY JOHN W. DURGIN CIVIL ENGINEERS, DATED JULY 17, 1963. R.C.R.D. PLAN
- PLAN OF LOTS, PROPERTY OF J. EVERETT TOWLE, EXETER, NH" BY ARTHUR W. DUDLEY, C.E., DATED 1924. R.C.R.D. PLAN 0671.
- 7. "A PORTION OF THE LAND OF JEAN AND SUE PULVER, EXETER, NH" BY LEACH AND HUNTER, DATED OCTOBER 4, 1949. R.C.R.D. PLAN 01721.
- 8. "PLOT OF LAND FOR CARROLS DEVELOPMENT CORP & CHICAGO TITLE COMPANY, EXETER, NH" BY UNITED SURVEYORS & ENGRS., DATED MARCH 20, 1970. R.C.R.D. PLAN 1726.
- 9. "PLAN OF LAND FOR JEAN A. & SUE E PULVER, EXETER, NH" BY JOHN W. DURGIN CIVIL ENGINEERS, DATED AUGUST 1951. R.C.R.D. PLAN 01823.
- 10. "PLAN OF LAND FOR JEAN A. & SUE E. PULVER, EXETER, NH" BY JOHN W. DURGIN CIVIL ENGINEERS, DATED AUGUST 1951.
- 11. "PART OF COUNTRY CLUB ESTATES, SCALE: 1 IN = 40 FT" BY JOHN W. DURGIN CIVIL ENGINEERS, DATED AUGUST 4TH, 1955. R.C.R.D. PLAN 02552.
- 12. "PLOT PLAN FOR HENRY SHEPARD & CHARLES KOIRTH, EXETER, NH" BY T.A. NOWAK, DATED APRIL 1958. R.C.R.D. PLAN 02680.
- 13. "SUBDIVISION OF LAND, SIMONS TO ROCKINGHAM NATIONAL BANK, EXETER, NH" BY JOHN W. DURGIN CIVIL ENGINEERS, DATED MAY 2, 1972. R.C.R.D. PLAN 2924.
- 14. "PLAN OF LAND IN EXETER, N.H. PREPARED FOR FRIENDLY ICE CREAM CORP." DATED AUGUST 12, 1974. PREPARED BY THOMAS F. MORAN INC. NOT RECORDED.
- 15. "PLAT OF LAND FOR M.H.K. REALTY IN EXETER, N.H." DATED NOVEMBER 1988. PREPARED BY PARKER SURVEY ASSOCIATES.

N/A

16. STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, PLANS OF PROPOSED FEDERAL AID PRIMARY PROJECT F 018-2(1) N.H. NO. P-2428. ON FILE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

N/A

SOIL NOTE

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. 5. BASIS OF BEARING: HORIZONTAL - NH STATE PLANE. VERTICAL - NAVD88. THERE IS A REPORT THAT ACCOMPANIES THIS MAP.

THE SITE SPECIFIC SOIL MAP WAS PRODUCED 10-22-2024, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC.

* SPD = SOMEWHAT POORLY DRAINED

15-25% 8-15% 50%+

ENDOAQUENTS, LOAMY

URBAN LAND

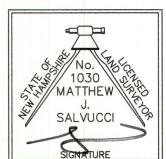
CERTIFICATION:

PURSUANT TO RSA 676:18-III AND RSA 672:14

I CERTIFY THAT THIS SURVEY PLAT 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

I CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEED BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

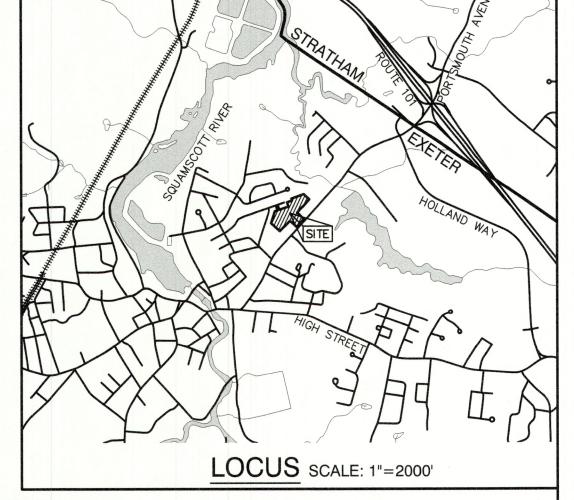
THIS SURVEY CONFORMS TO A CATEGORY 1 CONDITION 1 SURVEY AS DEFINED IN SECTION 4.1 OF THE N.H.L.S.A. ETHICS AND STANDARDS.



MATTHEW J. SALVUCCI, LLS 1030 ON BEHALF OF JONES & BEACH ENGINEERS, INC.

Project:

Owner of Record:



- I. THE INTENT OF THIS PLAN IS TO SHOW THE BOUNDARY AND EXISTING CONDITIONS OF LOT 118 AS SHOWN ON TOWN OF EXETER TAX MAP 65.
- 2. ZONING DISTRICT: C2 LOT AREA MINIMUM = 20,000 SF LOT WIDTH MINIMUM = 150' LOT DEPTH MINIMUM = 100' MINIMUM LOT AREA/ DWELLING UNIT = 5,000 S.F. BUILDING SETBACKS (MINIMUM): FRONT SETBACK = 50' SIDE SETBACK = 20' ON ONE SIDE, 40' ON THE OTHER
 - REAR SETBACK = 50' BUILDING HEIGHT = 35' BUILDING COVERAGE = 30%
 - OPEN SPACE = 15% TOWN WETLAND BUFFER = 40' LIMITED USE BUFFER TO P.D. SOILS, 75' PARKING AND STRUCTURE SETBACK
- THE UTILITY LOCATIONS SHOWN HEREON WERE DETERMINED BY OBSERVED ABOVE GROUND EVIDENCE AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION ONLY. LOCATION, DEPTH, SIZE, TYPE, EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES AND/OR UNDERGROUND STORAGE TANKS WAS NOT VERIFIED BY THIS SURVEY. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL DIG-SAFE AT 1-888-DIG-SAFE.
- 4. THE SUBJECT PARCEL IS NOT LOCATED WITHIN AN AREA HAVING A SPECIAL FLOOD HAZARD ZONE DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NOs. 33015C0402E AND 33015C0406E, BOTH WITH EFFECTIVE DATE OF MAY 17, 2005.
- ALL BOOK AND PAGE NUMBERS REFER TO THE ROCKINGHAM COUNTY REGISTRY OF
- 7. THE TAX MAP AND LOT NUMBERS ARE BASED ON THE TOWN OF EXETER TAX RECORDS AND ARE SUBJECT TO CHANGE.
- 8. THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. THE INTENT OF THIS PLAN IS TO RETRACE THE BOUNDARY LINES OF ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES EXPRESSED, IMPLIED OR PRESCRIPTIVE.
- 9. ANY USE OF THIS PLAN AND OR ACCOMPANYING DESCRIPTIONS SHOULD BE DONE WITH LEGAL COUNSEL, TO BE CERTAIN THAT TITLES ARE CLEAR, THAT INFORMATION IS CURRENT, AND THAT ANY NECESSARY CERTIFICATES ARE IN PLACE FOR A PARTICULAR CONVEYANCE, OR OTHER USES.
- 10. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY JACK HAYES, APRIL 1, 2024 IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
 - THE CORPS OF ENGINEERS FEDERAL MANUAL FOR IDENTIFYING AND DELINEATING JURISDICTIONAL WETLANDS. THE NORTH CENTRAL & NORTHEAST REGIONAL SUPPLEMENT TO THE FEDERAL
 - THE CURRENT VERSION OF THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, AS PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION AND/OR THE CURRENT VERSION OF THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, AS PUBLISHED
 - BY THE USDA, NRCS, AS APPROPRIATE. THE CURRENT NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS, AS PUBLISHED BY THE US FISH AND WILDLIFE SERVICE.
- 11. TEST PITS PERFORMED BY JAMES GOVE, GOVE ENVIRONMENTAL SERVICES, INC., 7/2/24.
- 12. SURVEY TIE LINES SHOWN HEREON ARE NOT BOUNDARY LINES. THEY SHOULD ONLY BE USED TO LOCATE THE PARCEL SURVEYED FROM THE FOUND MONUMENTS SHOWN AND

LOCATED BY THIS SURVEY.

13. THE SURVEYED PROPERTY MAY BE SUBJECT TO EASEMENT IN BOOK 2096 PAGE 211. LOCATION IS UNABLE TO BE DETERMINED AT THIS TIME.

> PROJECT PARCEL TOWN OF EXETER TAX MAP 65, LOT 118

APPLICANT GREEN & COMPANY 11 LAFAYETTE RD PO BOX 1297 NORTH HAMPTON, NH 03862

> TOTAL LOT AREA 291,630 SQ. FT. 6.7 ACRES

Checked: WGM Scale: AS SHOWN | Project No.: 24029 Drawing Name: 24029-PLAN.dwg

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



	3	8/19/24	PLAN SET	KDR
1	2 7/29/24		CONCEPT 3	KDR
8	1	6/6/24	REVISED PER CLIENT	PSL
	0	4/11/24	ISSUED FOR REVIEW	PSL
	REV.	DATE	REVISION	BY
	WATER BEST WATER SALES			

Jones & Beach Engineers, Inc.

Civil Engineering Services 85 Portsmouth Ave. PO Box 219 Stratham, NH 03885

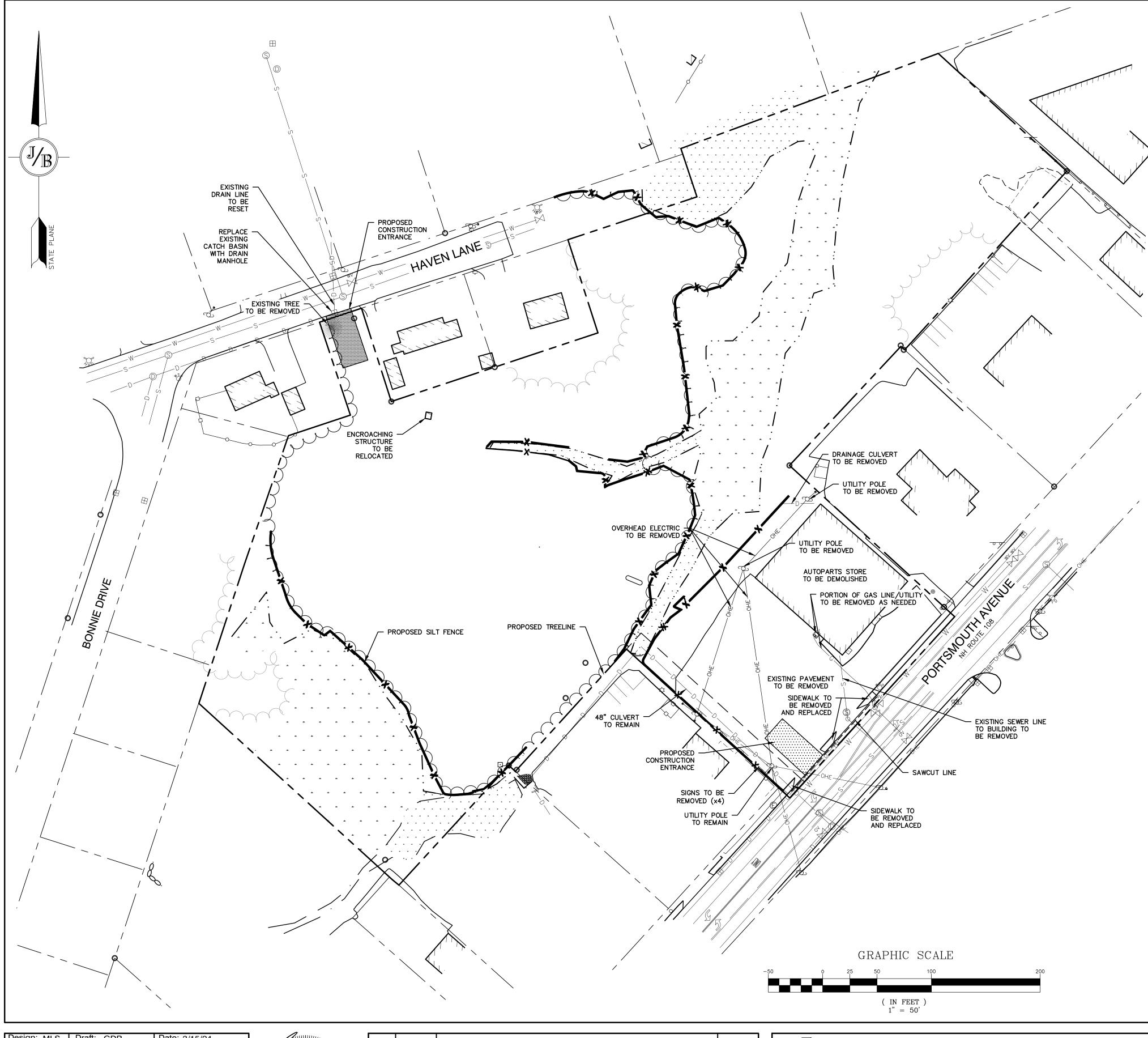
603-772-4746 E-MAIL: JBE@JONESANDBEACH.COM

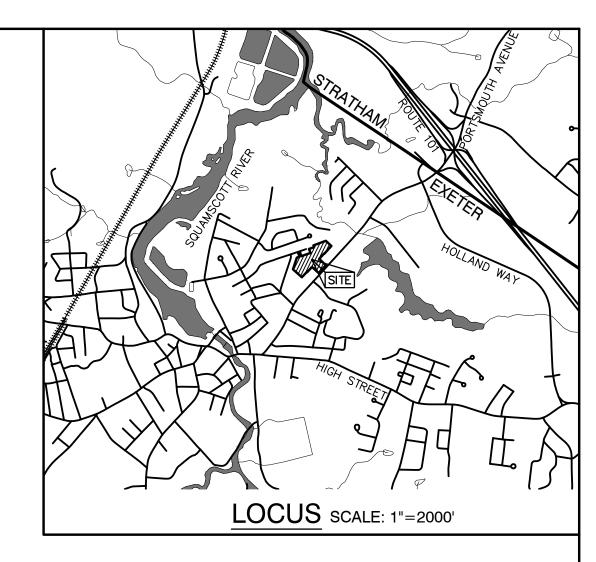
EXISTING CONDITIONS PLAN Plan Name: "LILAC PLACE"

76 PORTSMOUTH AVE, EXETER, NH RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No.

SHEET 2 OF21 JBE PROJECT NO. 24029





DEMOLITION NOTES:

- 1. THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR SITE DEMOLITION. IT SHOULD BE NOTED THAT ALL MANMADE FEATURES, PAVEMENT, SIGNS, POLES, CURBING, CONCRETE WALKS, UTILITIES, ETC., SHALL BE REMOVED AS NECESSARY TO CONSTRUCT WORK, UNLESS OTHERWISE NOTED TO REMAIN. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCIES FROM DATA AS SHOWN ON DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON—SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED. CLEARING LIMITS ARE THE EDGE OF THE PROPERTY AND THE LIMITS OF WORK.
- 3. ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES. ANY BURNING ON-SITE SHALL BE SUBJECT TO LOCAL ORDINANCES.
- 4. ALL EXISTING UTILITIES SHALL BE TERMINATED AT THE PROPERTY LINE, UNLESS OTHERWISE NOTED ON THE PLANS, IN CONFORMANCE WITH LOCAL, STATE AND UTILITY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES PRIOR TO THE START OF WORK.
- 5. EXISTING WATERLINES TO BE REMOVED SHALL BE CAPPED AT EXISTING WATERMAIN.
- 6. EXISTING GAS SERVICE LINES ARE TO BE REMOVED ON—SITE UP TO EXISTING GASMAIN LINES OR VALVES.
- 7. ALL CURBING, CONCRETE, PAVEMENT, BUILDINGS AND SUBBASE MATERIALS LOCATED WITHIN PROPOSED LANDSCAPED AREAS SHALL BE REMOVED AND REPLACED WITH LOAM MATERIALS SUITABLE FOR LANDSCAPING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. (SEE ALSO LANDSCAPE PLAN).
- 8. THE CONTRACTOR SHALL OBTAIN TREE CLEARING PERMIT FROM LOCAL AND STATE AUTHORITIES PRIOR TO START OF CONSTRUCTION (IF REQUIRED).
- 9. IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT FENCING IS NOT REQUIRED.
- 10. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND ANY EARTH MOVING OPERATIONS. SILT FENCE SHALL BE INSTALLED AT THE LIMITS OF IMPACT AREAS ACCORDING TO THE DETAILS SHOWN ON SHEET E1.
- 11. EXCAVATED MATERIALS WILL BE PLACED WITHIN UPLAND AREAS AS FILL MATERIAL OR HAULED OFF—SITE FOR DISPOSAL IN AN APPROPRIATE UPLAND LOCATION.

PROJECT PARCEL
TOWN OF EXETER
TAX MAP 65, LOT 118

APPLICANT
GREEN & COMPANY
11 LAFAYETTE RD
PO BOX 1297
NORTH HAMPTON, NH 03862

TOTAL LOT AREA 291,630 SQ. FT. 6.7 ACRES

Design: MLS Draft: GDR Date: 3/15/24
Checked: WGM Scale: AS SHOWN Project No.: 24029
Drawing Name: 24029-PLAN.dwg
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PAIGE S. LIBBEY No.16670 VCENSE ONAL ENGINEERS

3	8/19/24	PLAN SET	KDR
2	7/29/24	CONCEPT 3	KDR
1	6/6/24	REVISED PER CLIENT	PSL
0	4/11/24	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

Designed and Produced in NH

Jones & Beach Engineers, Inc.

85 Portsmouth Ave. Civil Engineering Services 603-772-4746

85 Portsmouth Ave. PO Box 219
Stratham, NH 03885

Civil Engineering Services

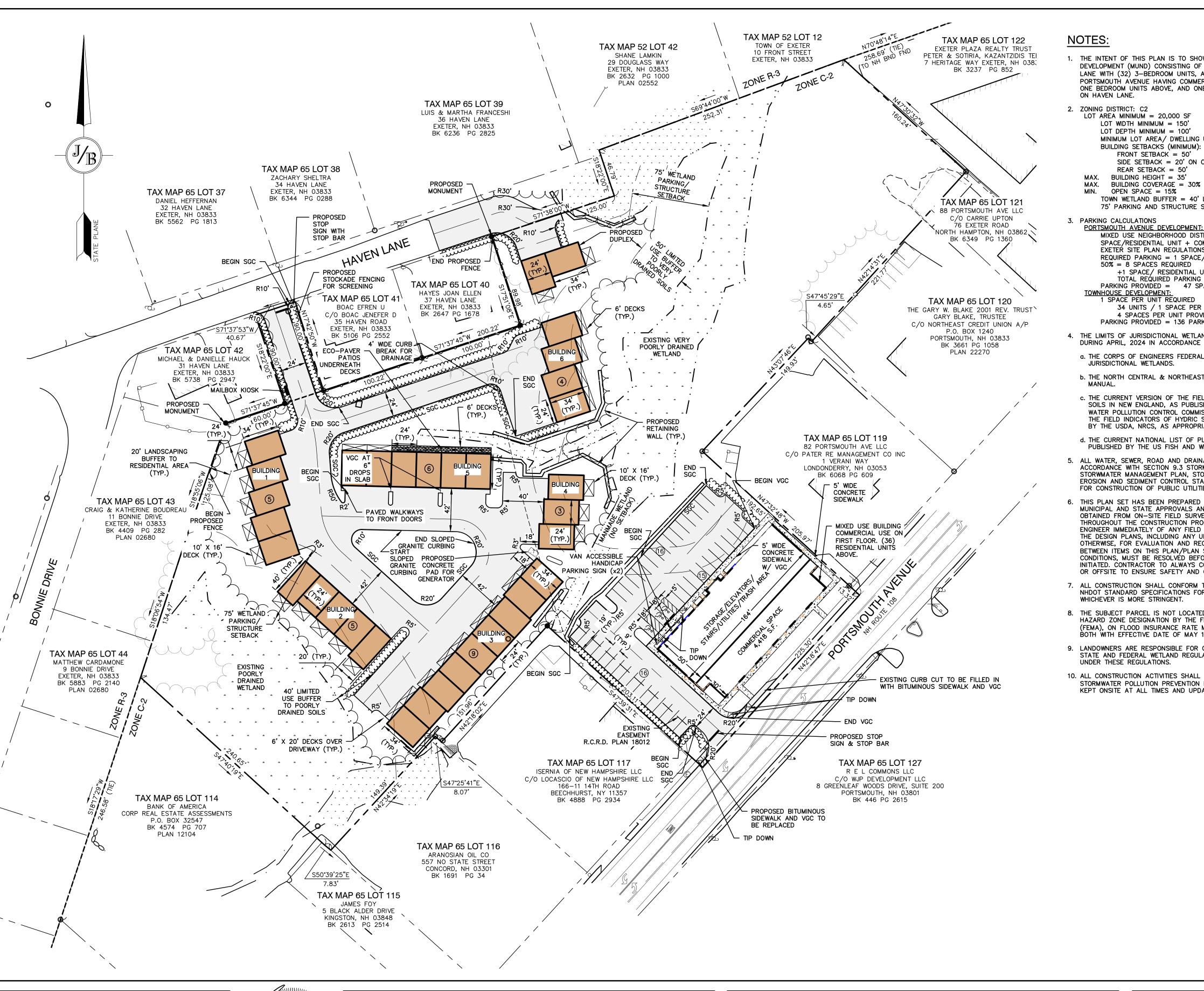
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	DEMOLITION PLAN
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No.

DM-1

SHEET 3 OF 20
JBE PROJECT NO. 24029



NOTES:

- 1. THE INTENT OF THIS PLAN IS TO SHOW A MIXED USE NEIGHBORHOOD DEVELOPMENT (MUND) CONSISTING OF A TOWNHOUSE DEVELOPMENT OFF HAVEN LANE WITH (32) 3-BEDROOM UNITS, A 4 STORY MIXED USE BUILDING ON PORTSMOUTH AVENUE HAVING COMMERCIAL USE ON THE FIRST FLOOR AND (36) ONE BEDROOM UNITS ABOVE, AND ONE SEPARATE DUPLEX WITH 3 BEDROOM UNITS
- 2. ZONING DISTRICT: C2
 - LOT AREA MINIMUM = 20,000 SF LOT WIDTH MINIMUM = 150' LOT DEPTH MINIMUM = 100'

MINIMUM LOT AREA/ DWELLING UNIT = 5,000 S.F. BUILDING SETBACKS (MINIMUM):

FRONT SETBACK = 50' SIDE SETBACK = 20' ON ONE SIDE, 40' ON THE OTHER REAR SETBACK = 50'

BUILDING HEIGHT = 35' BUILDING COVERAGE = 30%

> OPEN SPACE = 15%TOWN WETLAND BUFFER = 40' LIMITED USE BUFFER TO P.D. SOILS, 75' PARKING AND STRUCTURE SETBACK

3. PARKING CALCULATIONS

MIXED USE NEIGHBORHOOD DISTRICT (MUND) PARKING REQUIREMENTS = 1 SPACE/RESIDENTIAL UNIT + COMMERCIAL PARKING AT 50% OF TOWN OF EXETER SITE PLAN REGULATIONS REQUIRED PARKING = 1 SPACE/300 S.F. X 4,418 S.F. COMMERCIAL SPACE X 50% = 8 SPACES REQUIRED

+1 SPACE/ RESIDENTIAL UNIT = 36 SPACES REQUIRED TOTAL REQUIRED PARKING = 44 SPACES PARKING PROVIDED = 47 SPACES

<u>TOWNHOUSE DEVELOPMENT:</u> 1 SPACE PER UNIT REQUIRED

34 UNITS / 1 SPACE PER UNIT = 34 SPACES REQUIRED 4 SPACES PER UNIT PROVIDED (2 IN GARAGE + 2 IN FRONT OF UNIT) PARKING PROVIDED = 136 PARKING SPACES

- 4. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY JOHN HAYES, DURING APRIL, 2024 IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
- a. THE CORPS OF ENGINEERS FEDERAL MANUAL FOR IDENTIFYING AND DELINEATING JURISDICTIONAL WETLANDS.
- b. THE NORTH CENTRAL & NORTHEAST REGIONAL SUPPLEMENT TO THE FEDERAL
- c. THE CURRENT VERSION OF THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, AS PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION AND/OR THE CURRENT VERSION OF THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, AS PUBLISHED BY THE USDA, NRCS, AS APPROPRIATE.
- d. THE CURRENT NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS, AS 16. ALL STOP BARS SHALL BE 18" IN WIDTH IN A COLOR OF WHITE; ALL TRAFFIC PUBLISHED BY THE US FISH AND WILDLIFE SERVICE.
- 5. ALL WATER, SEWER, ROAD AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.3 STORMWATER MANAGEMENT STANDARDS, STORWMATER MANAGEMENT PLAN, STORMWATER POLLUTION PREVENTION PLAN, AND EROSION AND SEDIMENT CONTROL STANDARDS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES IN EXETER, NEW HAMPSHIRE.
- 6. THIS PLAN SET HAS BEEN PREPARED BY JONES & BEACH ENGINEERS, INC., FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS, INCLUDING ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS ON THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS, MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED. CONTRACTOR TO ALWAYS CONTACT DIG SAFE PRIOR TO DIGGING ONSITE OR OFFSITE TO ENSURE SAFETY AND OBEY THE LAW.
- 7. ALL CONSTRUCTION SHALL CONFORM TO TOWN STANDARDS AND REGULATIONS, AND WHICHEVER IS MORE STRINGENT.
- 8. THE SUBJECT PARCEL IS NOT LOCATED WITHIN AN AREA HAVING A SPECIAL FLOOD HAZARD ZONE DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NOs. 33015C0402E AND 33015C0406E, BOTH WITH EFFECTIVE DATE OF MAY 17, 2005.
- 9. LANDOWNERS ARE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING PERMITTING REQUIRED UNDER THESE REGULATIONS.
- 10. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.). THIS DOCUMENT IS TO BE KEPT ONSITE AT ALL TIMES AND UPDATED ÀS REQUIRÉD.

- 11. THE CONTRACTOR SHALL READ AND FOLLOW ALL RECOMMENDATIONS MADE IN THE SITE GEOTECHNICAL ENGINEER REPORT, PREPARED BY GEOTECHNICAL SERVICES, INC., DATED JULY 12, 2024.

LOCUS SCALE: 1"=2000'

WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS. 13. ALL PROPOSED SIGNAGE SHALL CONFORM WITH THE TOWN ZONING REGULATIONS,

12. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE

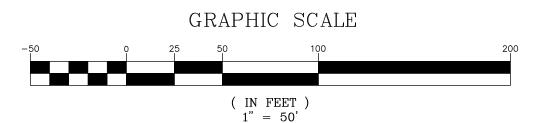
- UNLESS A VARIANCE IS OTHERWISE REQUESTED. 14. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- 15. ALL PARKING STALLS SHALL BE SEPARATED USING 4" WIDE SOLID STRIPES. STRIPING SHALL BE 100% ACRYLIC TYPE, LOW VOC, FAST DRYING, IN A COLOR OF

(M.U.T.C.D.) AND NHDOT STANDARDS AND SPECIFICATIONS (NON-REFLECTORIZED

ARROWS SHALL BE PAINTED IN A COLOR OF WHITE.

PAVEMENT MARKINGS), UNLESS OTHERWISE NOTED.

- 17. ALL CURBING TO BE SLOPED GRANITE WITH A MINIMUM RADIUS OF 2', UNLESS OTHERWISE NOTED.
- 18. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PROVIDED BY THE OWNER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION. BUILDING DIMENSIONS AND AREAS TO BE TO OUTSIDE OF MASONRY, UNLESS OTHERWISE NOTED.
- 19. SNOW TO BE STORED AT EDGE OF PAVEMENT AND IN AREAS SHOWN ON THE PLANS, OR TRUCKED OFFSITE TO AN APPROVED SNOW DUMPING LOCATION.
- 20. ROOF TOP HEATING AND AIR CONDITIONING UNITS (RTU's) SHALL BE DESIGNED TO VENT UPWARDS AND AIR INTAKES SHALL BE DIRECTED AWAY FROM ABUTTING
- 21. ALL ARCHITECTURAL BLOCK RETAINING WALLS ARE TO BE DESIGNED AND STAMPED BY THE MANUFACTURER'S STRUCTURAL ENGINEER. CONTRACTOR TO COORDINATE WITH APPROVED MANUFACTURER PRIOR TO INSTALLATION.
- 22. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
- 23. ALL PRECAST CONCRETE PRODUCTS WILL BE SOURCED FROM MANUFACTURING FACILITIES IN COMPLIANCE WITH THE NATIONAL PRECAST CONCRETE ASSOCIATION (NPCA) PLANT CERTIFICATION PROGRAM. EVIDENCE OF COMPLIANCE WILL BE PROVIDED FOR THE CURRENT CALENDAR YEAR THE PRODUCTS WERE



PROJECT PARCEL APPROVED - EXETER, NH TOWN OF EXETER PLANNING BOARD TAX MAP 65, LOT 118 APPLICANT **GREEN & COMPANY** 11 LAFAYETTE RD PO BOX 1297 NORTH HAMPTON, NH 03862 TOTAL LOT AREA 291,630 SQ. FT. DATE: 6.7 ACRES

Design: MLS Draft: GDR Date: 3/15/24 Checked: WGM Scale: AS SHOWN Project No.: 24029 Drawing Name: 24029-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE T THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

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PLAN SET KDR 3 8/19/24 7/29/24 **CONCEPT 3** KDR 6/6/24 **REVISED PER CLIENT** PSL **ISSUED FOR REVIEW** PSL 0 4/11/24 DATE **REVISION** BY

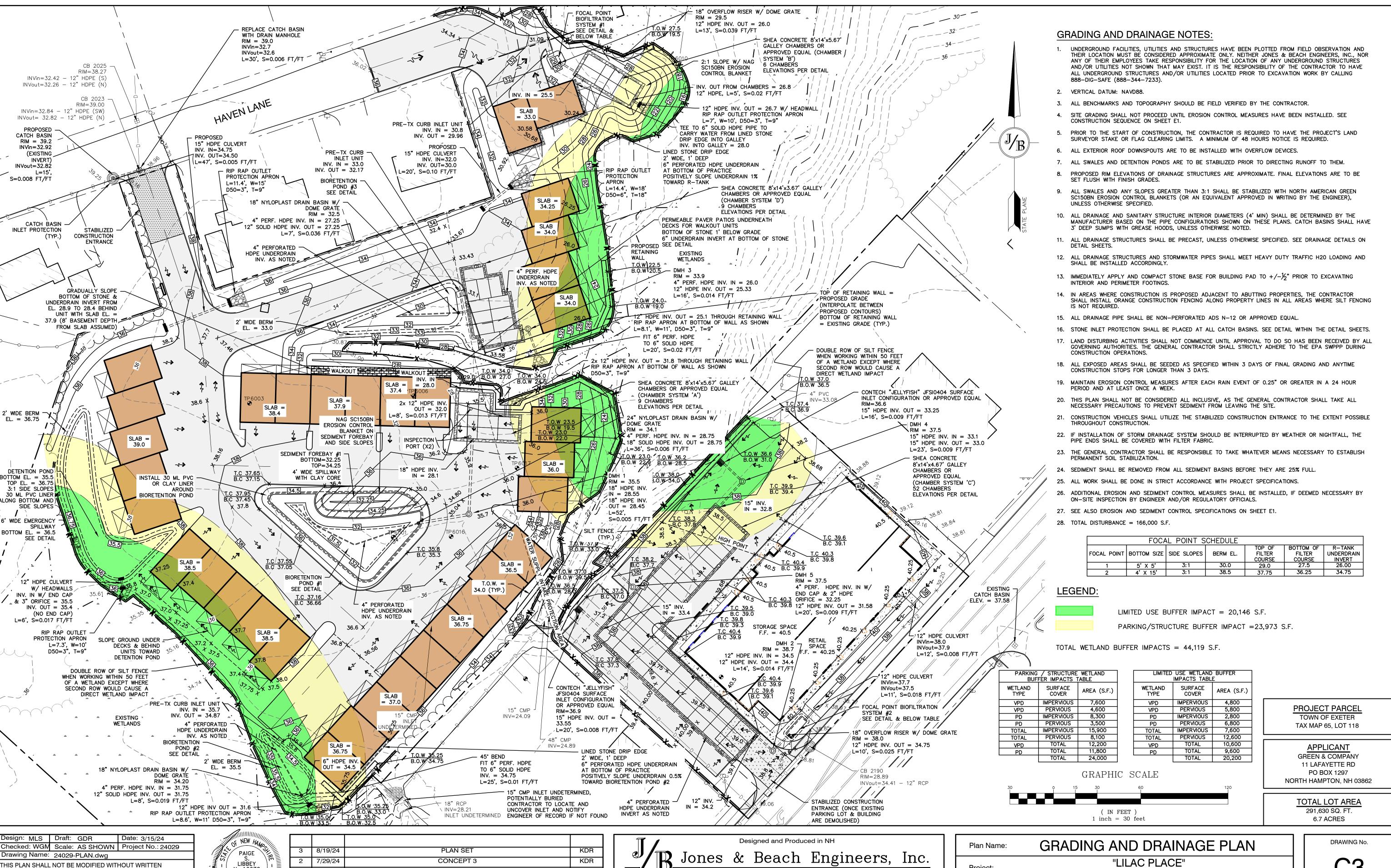
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85 Portsmouth Ave. Civil Engineering Services PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM Stratham, NH 03885

SITE PLAN Plan Name: "LILAC PLACE" Project: 76 PORTSMOUTH AVE, EXETER, NH RAP REALTY MANCHESTER LLC Owner of Record: 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No. SHEET 4 OF20 JBE PROJECT NO. 24029



85 Portsmouth Ave. Civil Engineering Services

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BY

PO Box 219

Stratham, NH 03885

No.16670

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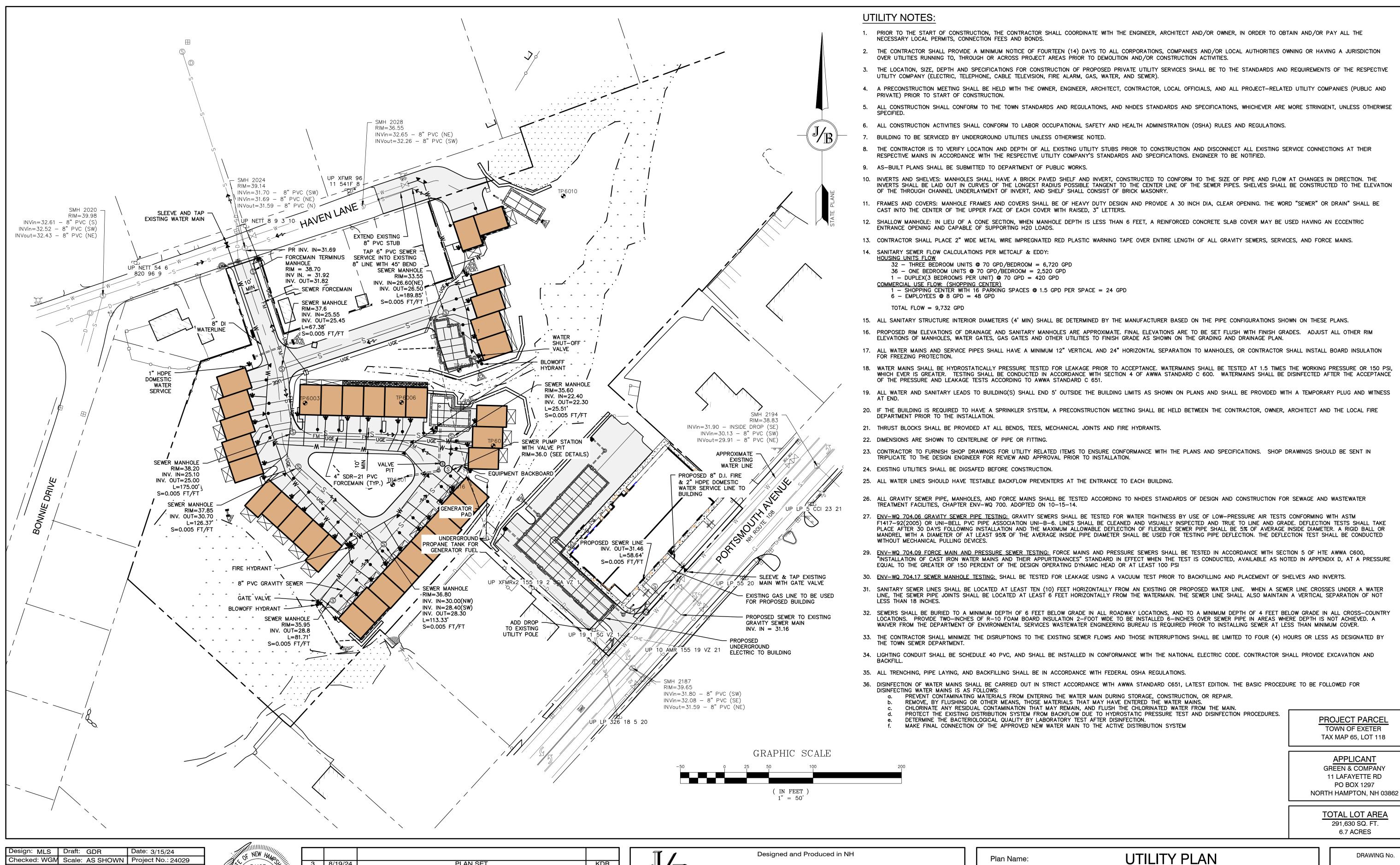
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76 PORTSMOUTH AVE, EXETER, NH

RAP REALTY MANCHESTER LLC

50 ATLANTIC AVE, SEABROOK, NH

SHEET 5 OF 20 JBE PROJECT NO. 24029



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PLAN SET

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JBE PROJECT NO. 24029

"LILAC PLACE"

76 PORTSMOUTH AVE, EXETER, NH

RAP REALTY MANCHESTER LLC

50 ATLANTIC AVE, SEABROOK, NH

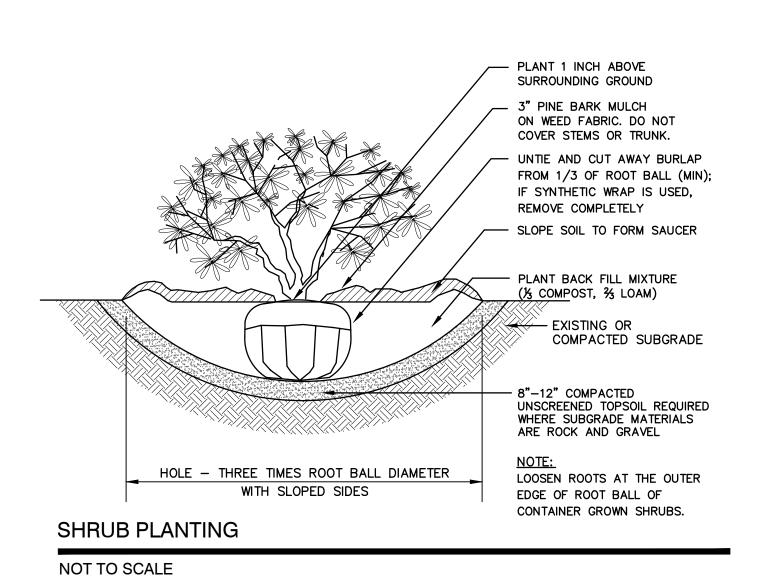
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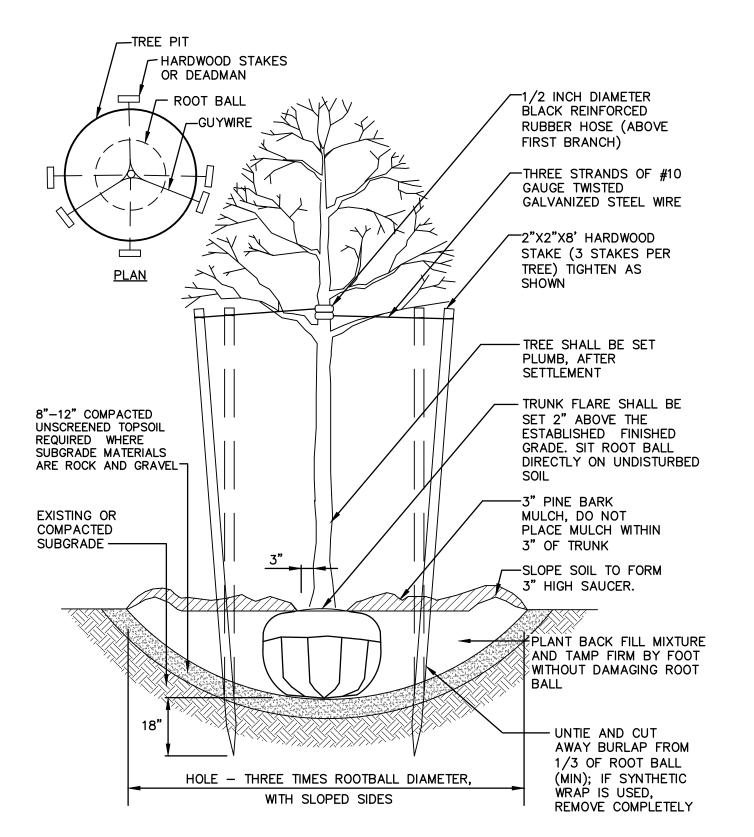
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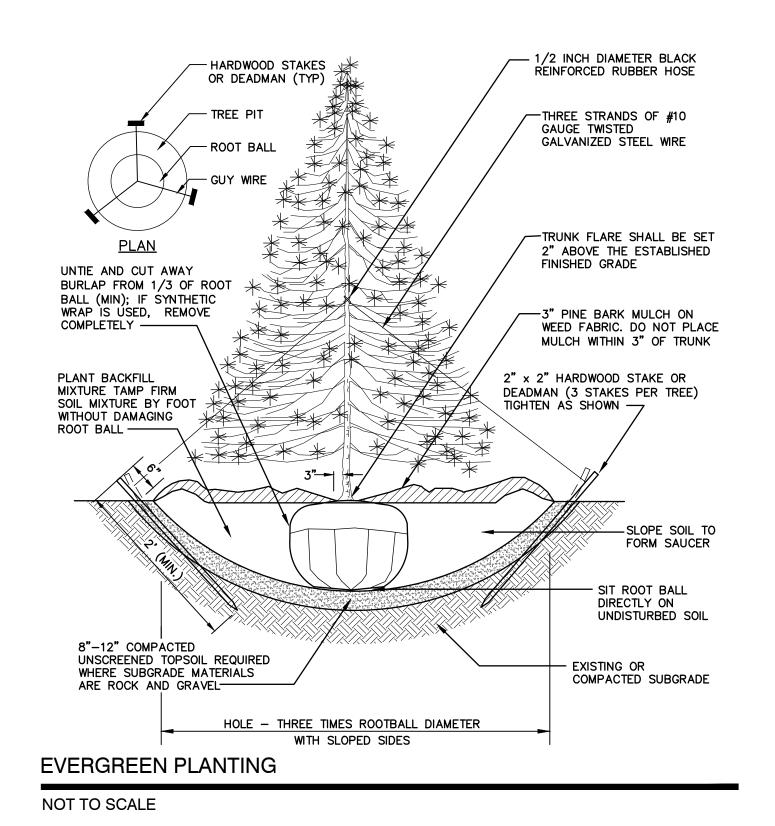






TREE PLANTING (FOR TREES UNDER 4" CALIPER)

NOT TO SCALE



LANDSCAPE NOTES:

BY THE LANDSCAPE ARCHITECT.

- 1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK
- 2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
- ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 4. ALL PLANT SUBSTITUTIONS MUST BE APPROVED THE LANDSCAPE ARCHITECT.
- 5. ALL PLANT MATERIALS SHALL BE EXACTLY AS SPECIFIED BY THE LANDSCAPE ARCHITECT. IF PLANT SPECIES CULTIVARS ARE FOUND TO VARY FROM THAT SPECIFIED AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR REPLACE THAT PLANT MATERIAL.
- 6. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ON—GOING FOR CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.
- 7. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
- 8. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED
- 9. ALL WORK AND PLANTS SHALL BE DONE, INSTALLED AND DETAILED IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 10. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24—HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST GROWING SEASON.
- 11. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OR OTHERWISE FORFEIT HIS CLAIM.
- 12. FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT WILL BE MADE UPON THE CONTRACTOR'S REQUEST AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.
- 13. BY THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAS DIED, LOST NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT IS, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN UNHEALTHY OR UNSIGHTLY CONDITION.
- 14. THE CONTRACTOR SHALL REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC. FROM ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF—SITE. GRASS SEED OR PINE BARK MULCH SHALL BE APPLIED AS DEPICTED ON PLANS.
- 15. FINISHED GRADES IN LANDSCAPED ISLANDS SHALL BE INSTALLED SO THAT THEY ARE 1" HIGHER THAN THE TOP OF THE SURROUNDING CURB.
- 16. ALL LANDSCAPING SHALL MEET THE TOWN STANDARDS AND REGULATIONS.
- 17. ALL MULCH AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER A 10 MIL WEED MAT EQUAL TO 'WEEDBLOCK' BY EASY GARDENER OR DEWITT WEED BARRIER.
- 18. ALL LANDSCAPED AREAS SHALL HAVE SELECT MATERIALS REMOVED TO A DEPTH OF AT LEAST 9"
 BELOW FINISH GRADE. THE RESULTING VOID IS TO BE FILLED WITH A MINIMUM OF 9"
 HIGH-QUALITY SCREENED LOAM AMENDED WITH 3" OF AGED ORGANIC COMPOST.
- 19. THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO CIVIL/SITE DRAWINGS FOR OTHER SITE CONSTRUCTION INFORMATION.
- 20. IRRIGATION PIPING SYSTEM SHALL BE REVIEWED AND APPROVED BY OWNER AND ENGINEER PRIOR TO INSTALLATION.

PROJECT PARCEL
TOWN OF EXETER
TAX MAP 65, LOT 118

APPLICANT
GREEN & COMPANY
11 LAFAYETTE RD
PO BOX 1297
NORTH HAMPTON, NH 03862

TOTAL LOT AREA 291,630 SQ. FT. 6.7 ACRES

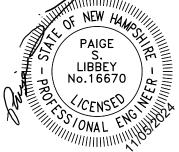
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Engineering Services

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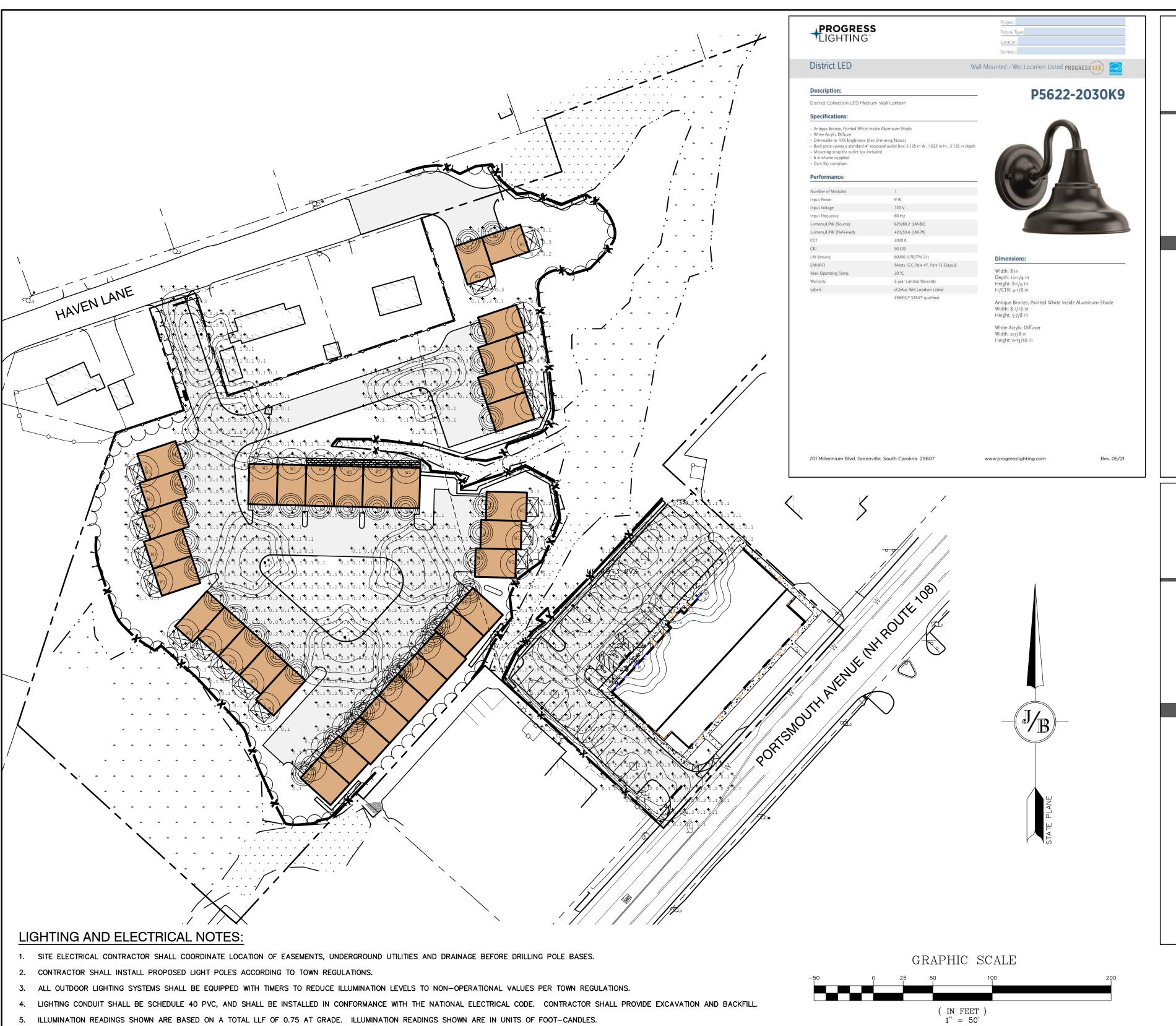
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Plan Name:	LANDSCAPE PLAN
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No.

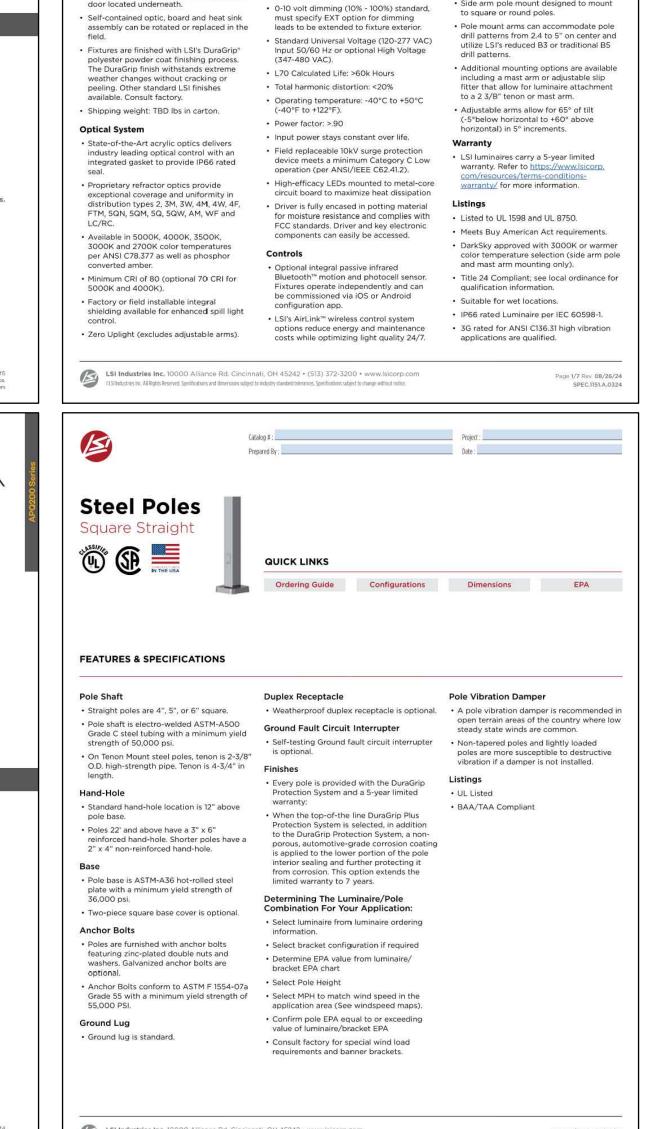
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SHEET 8 OF20
JBE PROJECT NO. 24029









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V-Locity Small (VALS)

142 - 171

20 (9.1)

IMSBT, ALB, ALS,

QUICK LINKS

Electrical

· High-performance driver features over-

over temperature protection.

voltage, under voltage, short-circuit and

Ordering Guide Performance Photometrics Dimensions

· REDiMount pole mount arm allows for a

Side arm pole mount designed to mount

true one person installation.

Outdoor LED Area Light

Wattage Range

Weight lbs(kg)

Control Options

Construction

Efficacy Range (LPW)

FEATURES & SPECIFICATIONS

· Rugged die-cast aluminum housing

contains factory prewired driver and

optical units. Cast aluminum wiring access

Symbol	Qty	Label	Arrangement	Description	Tag	[MANUFAC]
0	2	Р3	Single	DPM-3D-2M-T3-30-530M-BLK / PT01-BLK / APQ204R-12-BLK	12' POLE	AMERLUX LLC
0	4	P4	Single	DPS-3D-2M-T4-30-530M-BLK / PT01-BLK / APQ204R-12-BLK	12' POLE	AMERLUX LLC
Ð	4	S4	Single	VALS-12L-4W-UNV-30K8-BLK-SA-IS / 4SQ B3 S11G15 S BLK AB 4BC	15' POLE	LSI INDUSTRIES, INC.
8	2	W	Single	XWS-LED-05L-SIL-3-UNV-DIM-30-70CRI-CXX	WALL MOUNTED 15' AFG	LSI INDUSTRIES, INC.
0	68	W1	Single	945622-2030K9	WALL MOUNTED AT GROUND FLOOR ENTRY DOOR AND 2ND FLOOR DECK	PROGRESS

Owner of Record:

APPLICANT **GREEN & COMPANY** 11 LAFAYETTE RD PO BOX 1297 NORTH HAMPTON, NH 03862

PROJECT PARCEL

TOWN OF EXETER

TAX MAP 65, LOT 118

TOTAL LOT AREA 291,630 SQ. FT. 6.7 ACRES

Design: MLS | Draft: GDR Date: 3/15/24 Checked: WGM Scale: AS SHOWN Project No.: 24029 Drawing Name: 24029-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE T THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

9. EXTEND A 480/277V, 3" DIAMETER SERVICE TO ROAD SIGN. INSTALL A 30A 3P NEMA 3R DISC. SWITCH (EACH LEG FUSED @ 20A). SIGN REQUIRES (3) 20A 277V CIRCUITS.

6. LIGHTING CALCULATIONS SHOWN ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM AND SAFETY.

7. ALL LIGHTING FIXTURES SHALL BE FULL CUT-OFF DARK-SKY COMPLIANT, UNLESS OTHERWISE NOTED.

SUBMITTED FOR REVIEW IF EQUAL SUBSTITUTIONS ARE PROPOSED BY THE CONTRACTOR OR OWNER.

STOREFRONT. THESE DESIGNATIONS INDICATE WHAT PHASE LIGHTS ARE WIRED TO (TYP).

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	3	8/19/24	PLAN SET	KDR
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	0	4/11/24	ISSUED FOR REVIEW	PSL
HAND A	REV.	DATE	REVISION	BY

8. NL INDICATES THAT THIS LUMINAIRE SHALL BE ON A NIGHT LIGHT CIRCUIT. FL INDICATES THAT THIS LUMINAIRE SHALL BE A FLOOD LIGHT FIXTURE. MOUNTING BRACKET FOR THIS FL FIXTURE SHALL BE MOUNTED 25' ABOVE BOTTOM OF POLE BASE FOR ALL LIGHT POLES CLOSEST TO

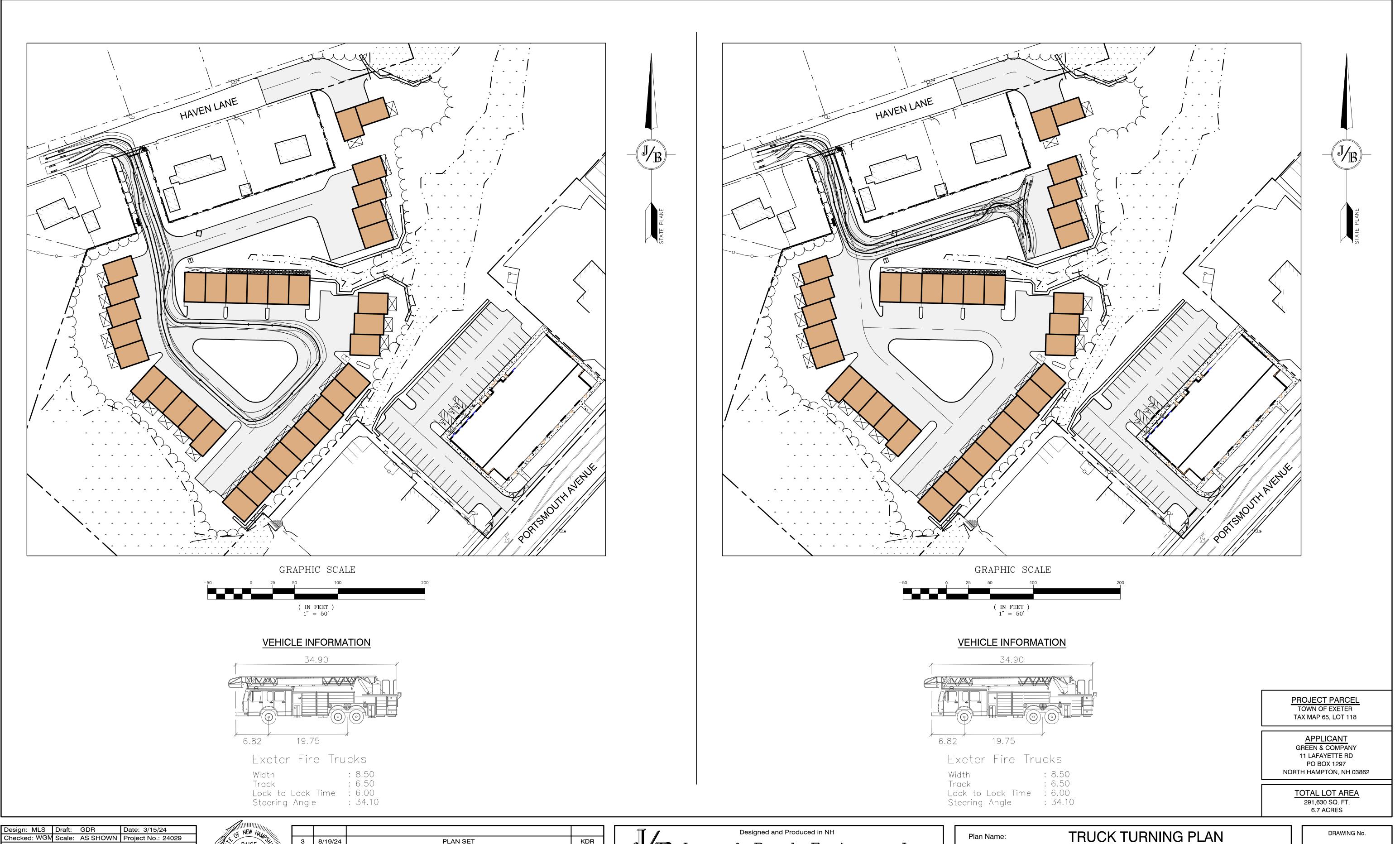
10. THE PROPOSED LIGHTING CALCULATIONS AND DESIGN WAS PERFORMED BY EXPOSURE LIGHTING, 501 ISLINGTON STREET, UNIT 1A, PORTSMOUTH, NH 03801, ATTENTION KEN SWEENEY. ALL LIGHTS SHOULD BE PURCHASED FROM THIS COMPANY, OR AN EQUAL LIGHTING DESIGN SHOULD BE

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LIGHTING PLAN Plan Name: "LILAC PLACE" Project: 76 PORTSMOUTH AVE, EXETER, NH RAP REALTY MANCHESTER LLC

50 ATLANTIC AVE, SEABROOK, NH

DRAWING No. JBE PROJECT NO. 24029



Design: MLS Draft: GDR Date: 3/15/24

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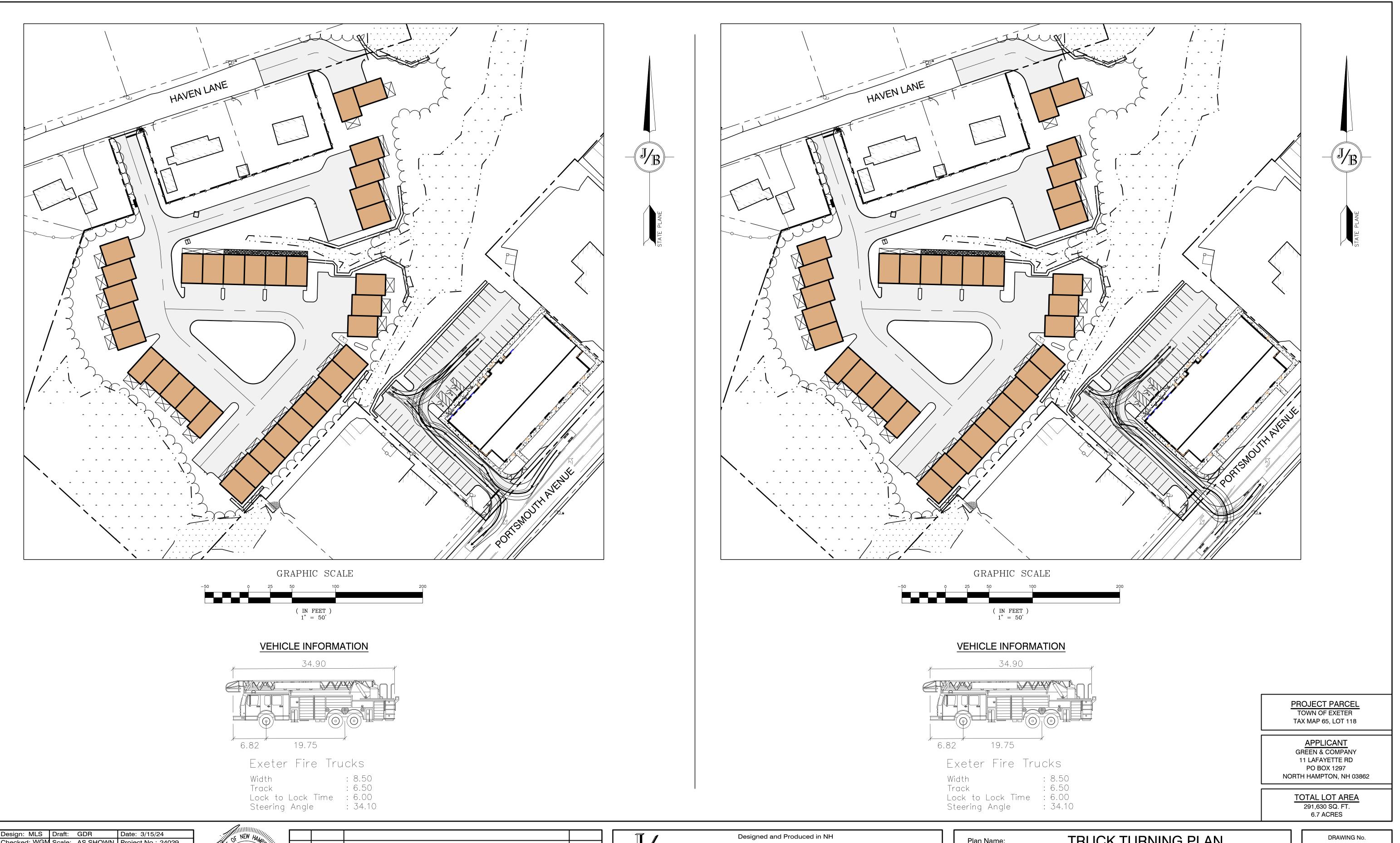
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Plan Name:	TRUCK TURNING PLAN
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No.

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SHEET 10 OF20
JBE PROJECT NO. 24029



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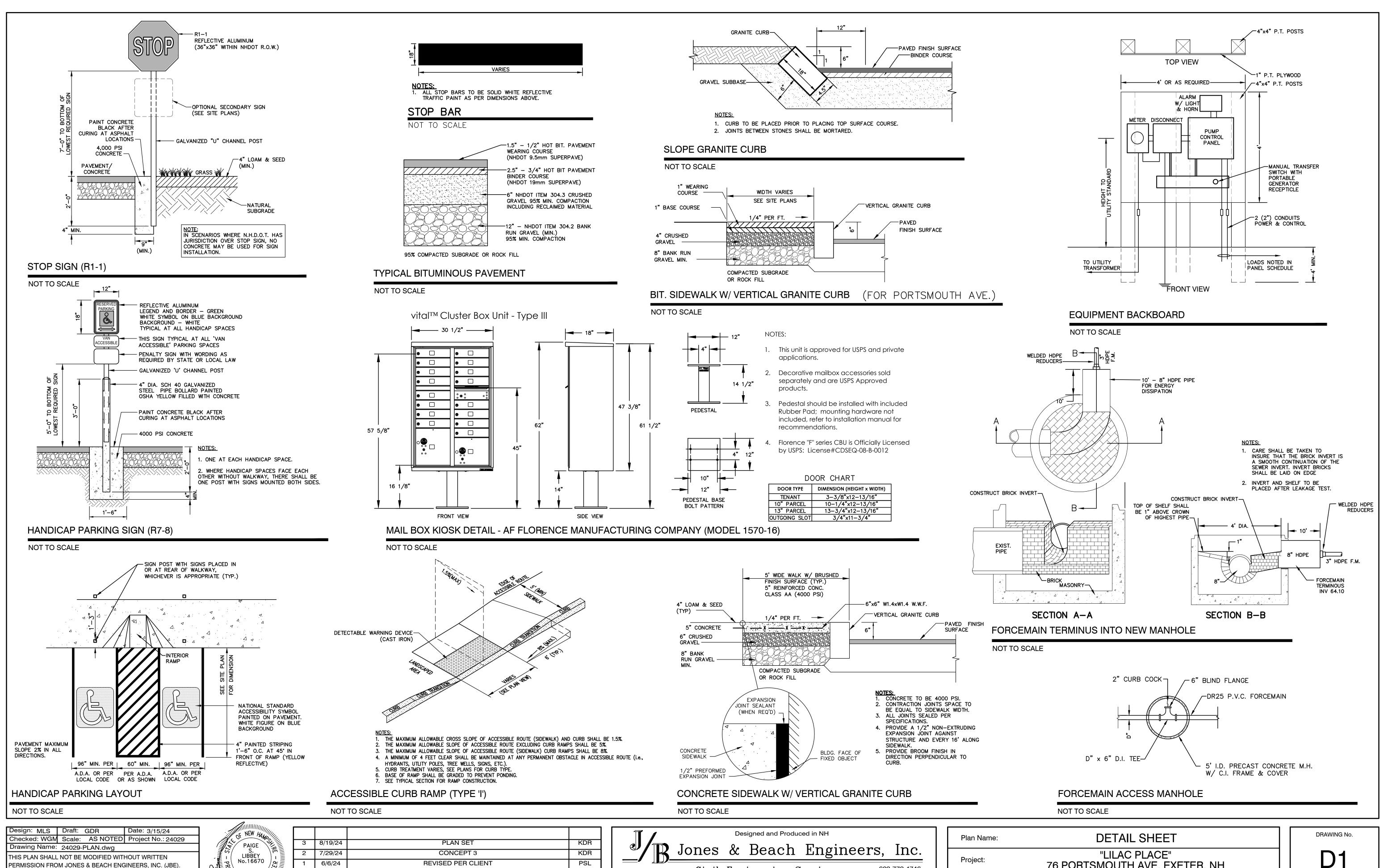
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Civil Engineering Services
E-MAIL: JBE@ 603-772-4746

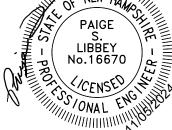
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	TRUCK TURNING PLAN
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

SHEET 11 OF20 JBE PROJECT NO. 24029



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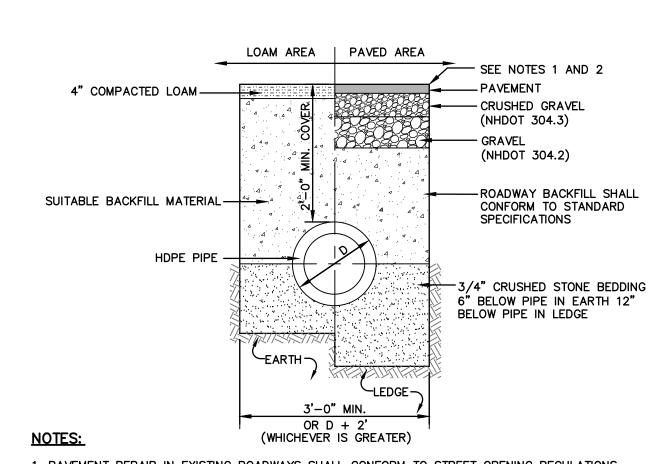
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Stratham, NH 03885

Plan Name:	DETAIL SHEET	
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH	
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH	

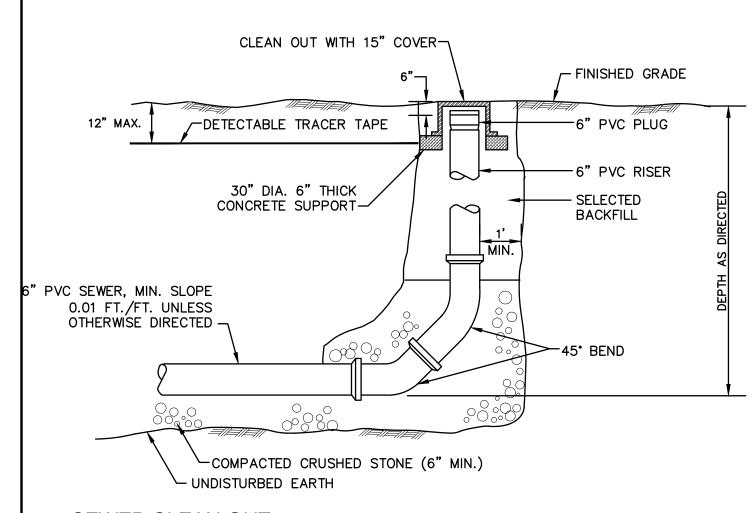
SHEET 12 OF20 JBE PROJECT NO. 24029



- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND TOWN SPECIFICATIONS.
- 3. ALL MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1557.

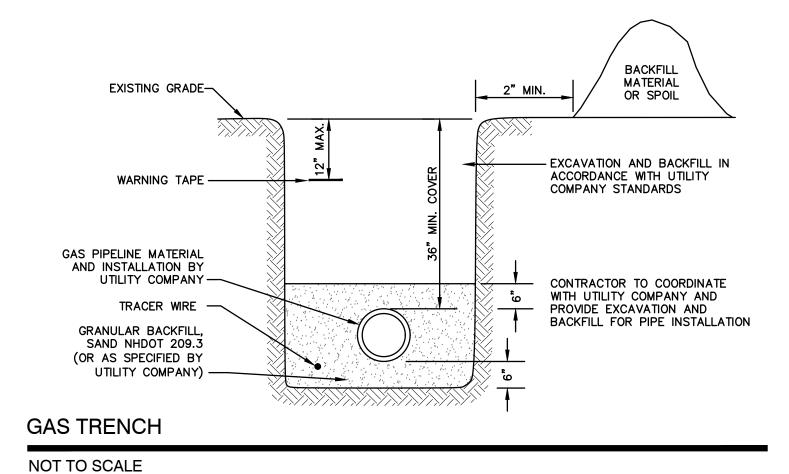
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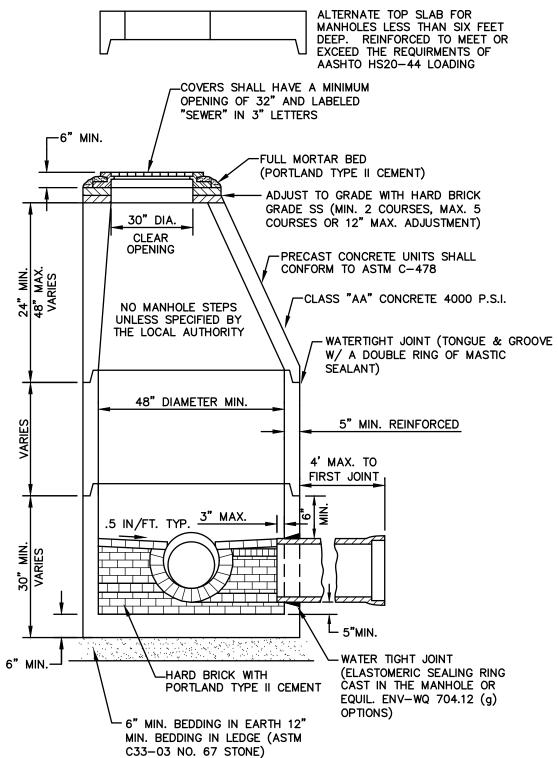
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NOT TO SCALE





- PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING: a. MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT
- HYDRATED LIME ADDITION b. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704-4: (1) 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR
- (2) 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME; c. CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS
- d. HYDRATED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED
- e. SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM C33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY "STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES
- f. CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT:
- 2. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO

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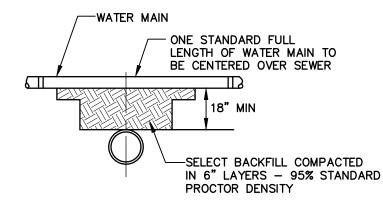
- DRAIN TOWARD THE FLOWING THROUGH CHANNEL IN ACCORDANCE WITH ENV-WQ 704.12 (K) ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (a) THROUGH
- 4. SEWER MANHOLE COVERS SHALL CONFORM TO ASTM A48/48M WITH A CASTING EQUAL TO CLASS 30
- ALL PRECAST SECTIONS SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING
- COATING IN ACCORDANCE WITH ENV-WQ 704.12 (J). ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL PER
- 7. BRICK MASONRY SHALL CONFORM TO ASTM C32 (ENV-WQ 704.12(a)(9))

IN ACCORDANCE WITH ENV-WQ 704.13 (a) (8).

SEWER MANHOLE

ENV-WQ 704.12(i).

NOT TO SCALE

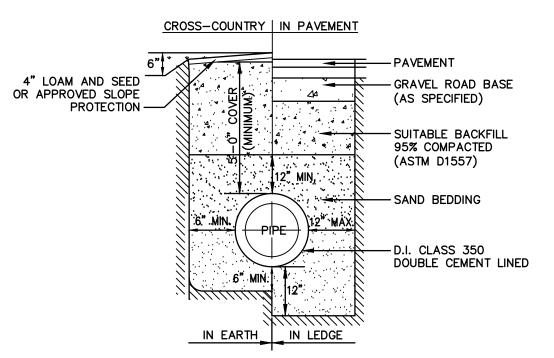


SEPARATION NOTES:

WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. 2. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN PIPES. SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLLY FROM THE WATER MAIN.

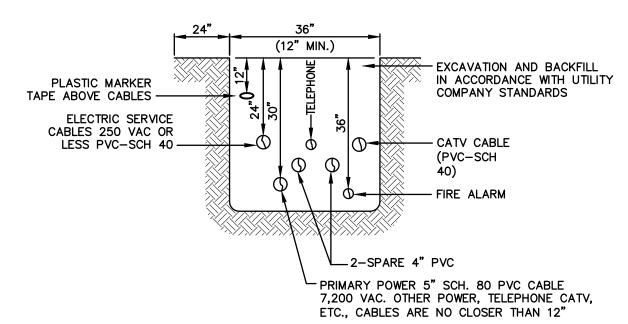
TYPICAL WATER / SEWER SEPARATION

NOT TO SCALE



WATER SYSTEM TRENCH

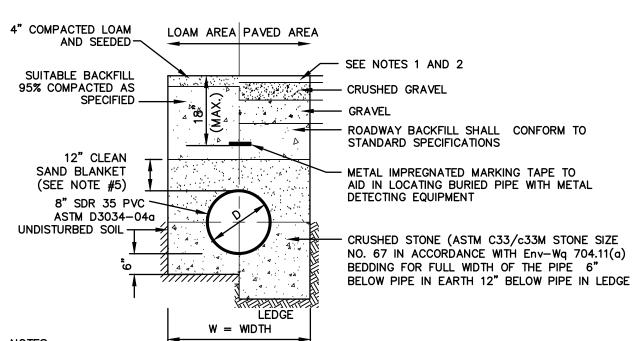
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NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

UTILITY TRENCH

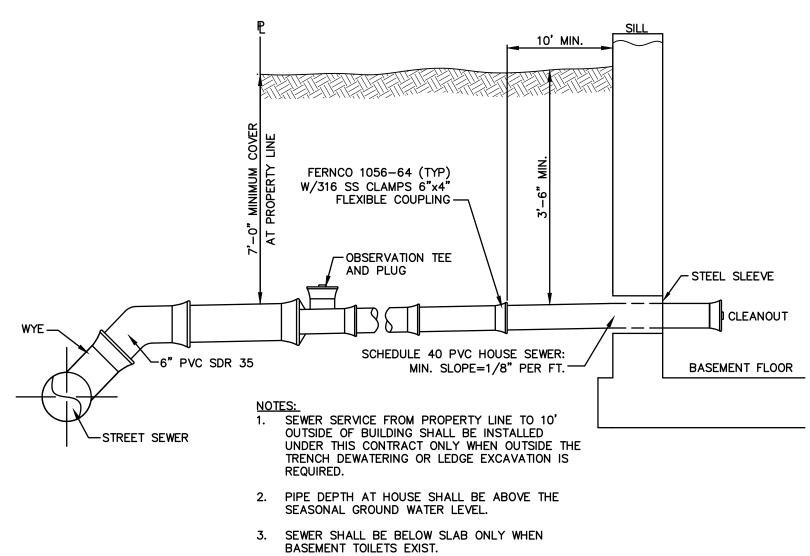
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- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.
- 3. TRENCH BACKFILL SHALL CONFORM WITH ENV. Wq 704.11(h) AND BE FREE OF DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE OR ROCKS
- 4. W= MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36"; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- 5. RIGID FOAM INSULATION TO BE PROVIDED WHERE COVER IN THE ROADWAY IS LESS THAN 6' AND CROSS COUNTRY IS LESS THAN 4', PURSUANT TO DES WAIVER BEING ISSUED.
- 6. PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND, FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT 100% PASSES A 1/2 " SIEVE AND A MAXIMUM OF 15% PASSES A #200 SIEVE IN ACCORDANCE WITH Env-Wq 704.11(b).
- 7. JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL AND CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE ASTM D3212 STANDARD IN EFFECT WHEN THE JOINT SEALS WERE MANUFACTRED, AND SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE PER Env-Wq 704.05 (e).

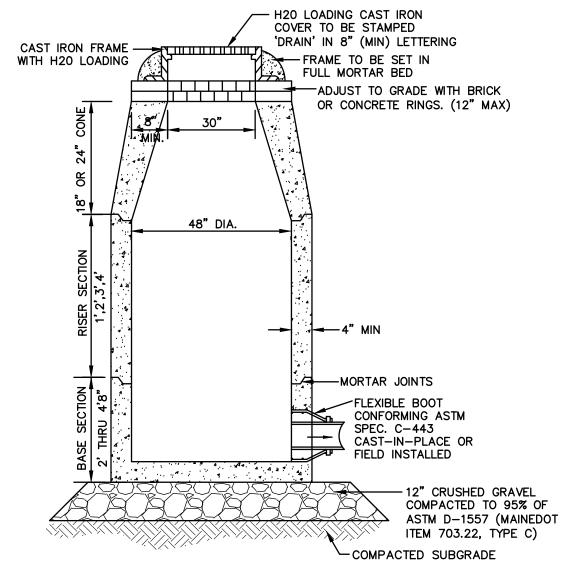
SEWER TRENCH

NOT TO SCALE



HOUSE SEWER SERVICE

NOT TO SCALE



- 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20 LOADING.
- 5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 7. ALL DRAIN MANHOLE FRAMES AND GRATES SHALL BE NEENAH R-1798 OR APPROVED EQUAL (30" DIA.
- 8. STANDARD FRAME(S) AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE 'DONUTS'.

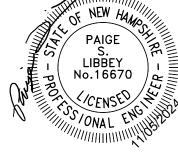
DRAIN MANHOLE (4' DIAM.)

NOT TO SCALE

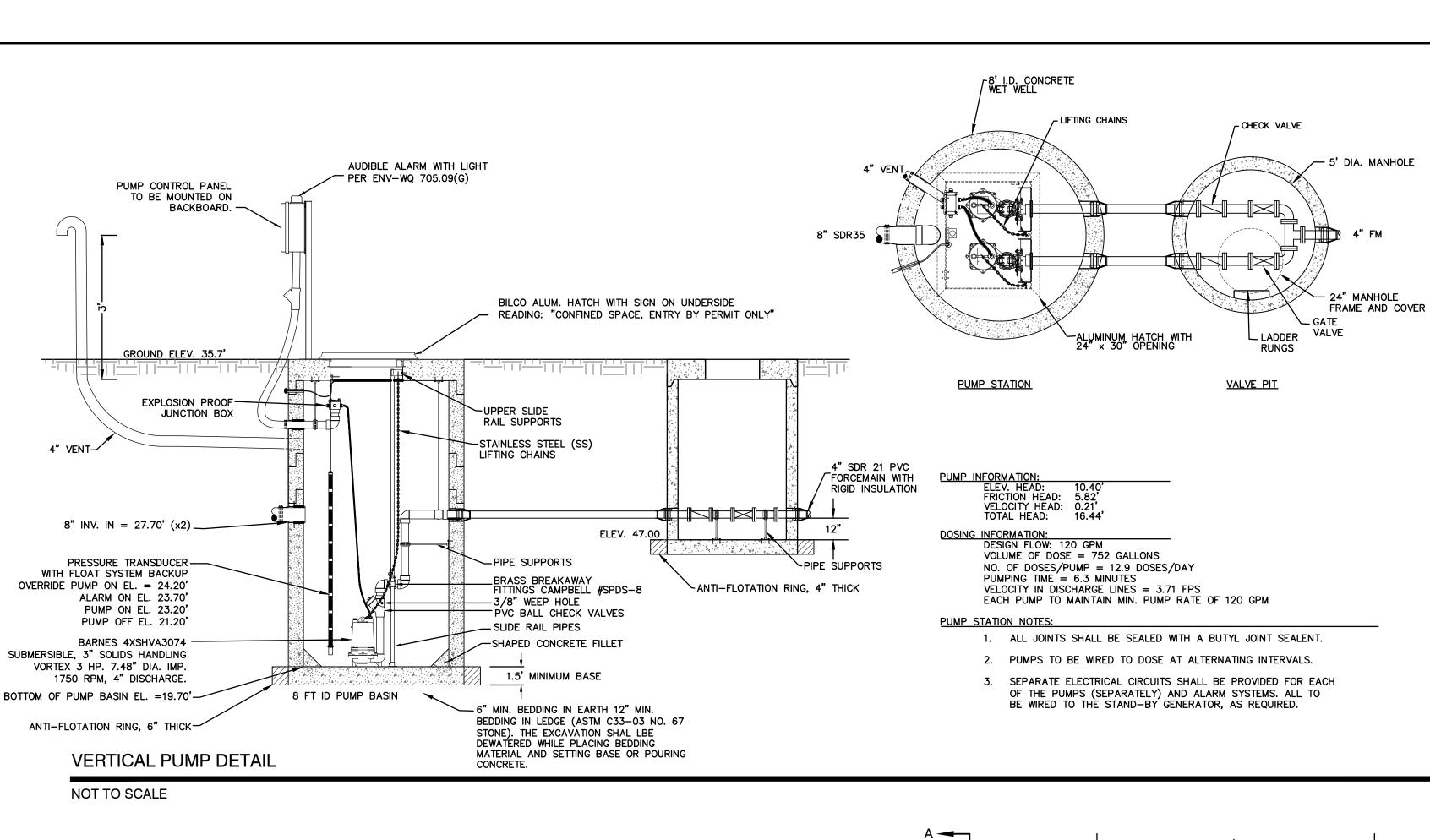
Designed and Produced in NH	Plan Name: DETAIL SHEET
Jones & Beach Engineers, Inc. Portsmouth Ave. Civil Engineering Services 603-772-4746	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH
Box 219 tham, NH 03885 C to the Englineer trig Derotices E-MAIL: JBE@JONESANDBEACH.COM	Owner of Record: RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH

DRAWING No. **SHEET 13 OF 20** JBE PROJECT NO. 24029

	Design: MLS	Draft:	GDR	Date: 3/15/24	
	Checked: WGM	Scale:	AS NOTED	Project No.: 24029	
	Drawing Name:	24029-	PLAN.dwg		
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GROUND LEVEL SLOPE-5° BATTER ANGLE (MIN. 2% AWAY FROM BLOCKS) (10-15/16" OVER FILL CORES WITH CLEAN 12' TALL WALL) 1" DIAM. CRUSHED STONE AS EACH COUARSE IS SET 36" DEEP-STANDARD BLOCK 2-3/16" (TÝP.) EDGE OF EXCAVATION GEOTEXTILE FILTER BACKFILLED NATIVE SOIL COMPACTED IN PLACE AS EACH COURSE IS SET NOTE: FOR RETAINING WALL HEIGHTS GREATER THAN 4-FEET TALL: CONTRACTOR SHALL OBTAIN WALL DESIGN BY LICENSED STRUCTURAL ENGINEER AND PROVIDE TO -CRUSHED STONE LEVELING PAD ENGINEER OF RECORD FOR REVIEW (6" MIN. DEPTH) PRIOR TO MATERIAL ORDERING. VERTI-BLOCK RETAINING WALL

E NEW HAMP

PAIGE

CENSED

ONAL

3 8/19/24

NOT TO SCALE

Checked: WGM Scale: AS NOTED Project No.: 24029

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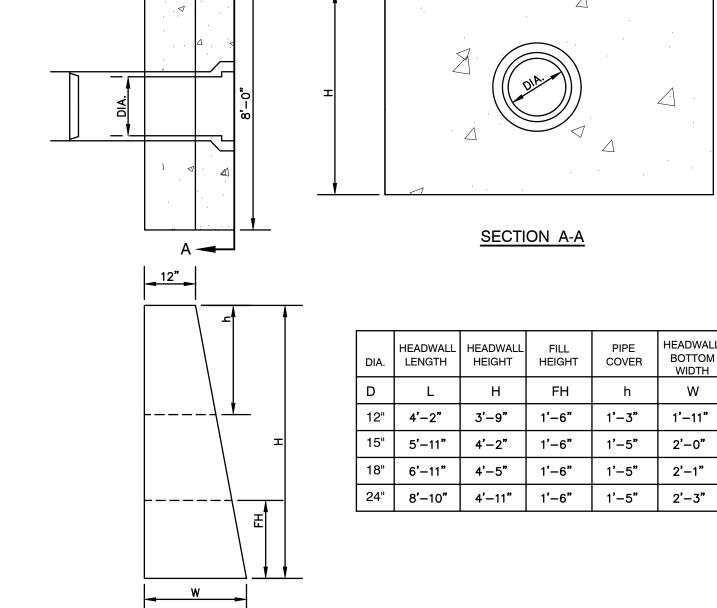
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- . ALL DIMENSIONS GIVEN IN FEET & INCHES. PROVIDE BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
- CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS. CEMENT TO BE TYPE III PER ASTM
- C-150. REINFORCING TO MEET OR EXCEED ASTM A-615 GRADE 60 DEFORMED BARS. 4. 1" THREADED INSERTS PROVED FOR FINAL ATTACHMENT IN FIELD BY OTHERS.

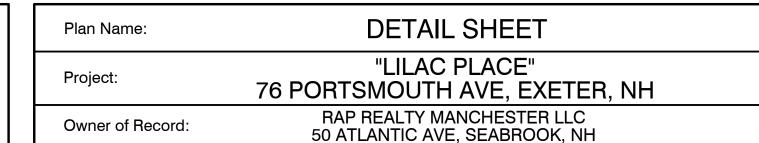
PRECAST CONCRETE HEADWALL

LONGITUDINAL SECTION

NOT TO SCALE

PLAN SET CONCEPT 3 REVISED PER CLIENT PSL **ISSUED FOR REVIEW** PSL BY

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DRAWING No. SHEET 14 OF 20 JBE PROJECT NO. 24029

1. ALL COMPONENT PARTS OF MANHOLE STRUCTURES SHALL HAVE THE STRENGTH, LEAK RESISTANCE AND SPACE NECESSARY FOR THE INTENDED SERVICE.

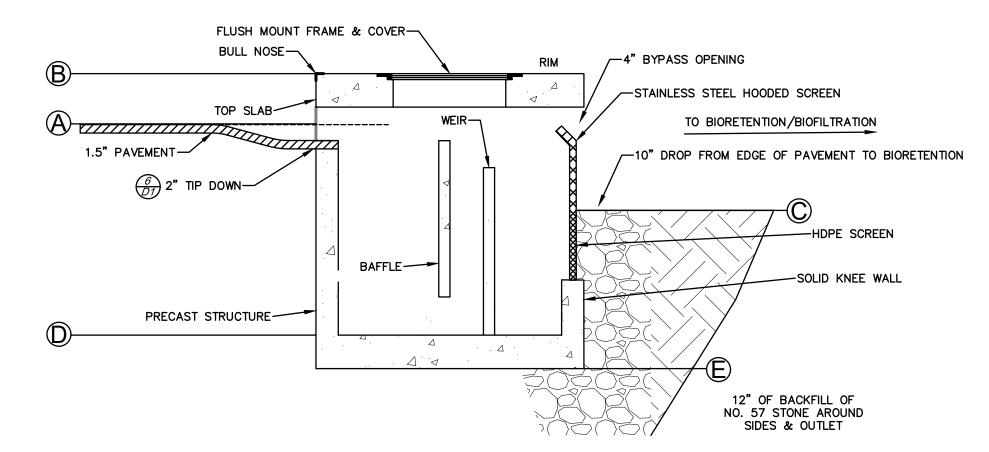
- 2. THERE IS NO NEARBY BASE FLOOD ELEVATION FOR THE PROJECT. SEE SHEET C2, NOTE 7.
- 3. MANHOLE STRUCTURES SHALL HAVE A LIFE EXPECTANCY OF AT LEAST 25 YEARS.
- 4. MANHOLE STRUCTURES SHALL BE DESIGNED TO WITHSTAND HS-20 LOADING AND SHALL NOT LEAK IN EXCESS OF ONE GPD PER VERTICAL FOOT OF MANHOLE FOR THE LIFE OF THE STRUCTURE.
- 5. BASE SECTIONS SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6 INCHES ABOVE THE CROWN OF THE INCOMING PIPE.
- 6. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF AN OVERLAPPING TYPE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF AN ELASTOMERIC OR MASTIC-LIKE
- 7. PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
 - (1) MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION (2) PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704-4:
 - A. 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR B. 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME;
- MANUFACTURED (2) HYDRATED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE
- ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED
- (3) SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM C33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY "STANDARD
- SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES (4) CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT: HTTP://WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM
- 7. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (a) THROUGH (e). WET WELLS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 705.02(i).

(1) CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS

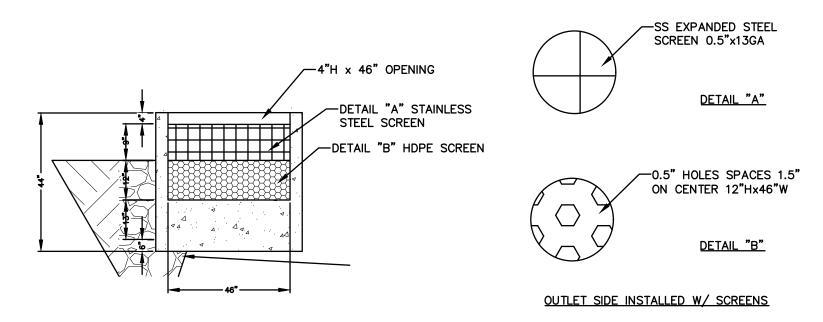
- 8. ALL PRECAST SECTIONS SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING IN ACCORDANCE WITH ENV-WQ 704.12 (J).
- 9. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL PER Env-Wq 704.12(i).
- 10. ALL PRESSURE PVC PIPES TO CONFORM TO ASTM D2241 PER ENV-WQ 704.08(C), AS APPLICABLE.
- 11. PUMPS AND ELECTRICAL COMPONENTS IN THE WET WELL SHALL BE DESIGNED FOR CLASS I DIVISION 1 LOCATIONS.
- 12. PUMP CONTROL PANEL TO HAVE INDIVIDUAL PUMP RUN METERS.
- 13. PUMP STATION ALARM CONDITIONS
 - a. HIGH WATER ALARM b. LOW WATER ALARM c. PHASE LOSS

13. WITHIN 60 DAYS OF SUBSTANTIAL PROJECT COMPLETION AND A FINAL OWNER/OPERATOR IS DETERMINED, THE ENGINEER WILL SUBMIT AN EMERGENCY OPERATIONS PLAN AND PROCEDURES PER ENV-WQ 705.10.

- 14. A PERMANENT GENERATOR FOR BACK-UP POWER SUPPLY TO BE INSTALLED.
- 15. SHOP DRAWINGS MUST BE SUBMITTED TO PORTSMOUTH DPW AND THE PROJECT'S THIRD PARTY INSPECTOR FOR REVIEW.



	PRETX-CURE	B ELEVATION GUIDE
POINT	DESCRIPTION	HEIGHT IN REFERENCE TO PT. A
Α	EDGE OF PAVEMENT	0 INCHES
В	OUTSIDE TOP SLAB	8 INCHES
С	TOP OF BIORETENTION	12 INCHES
D	SUMP INVERT	36 INCHES
E	OUTSIDE BOTTOM	42 INCHES



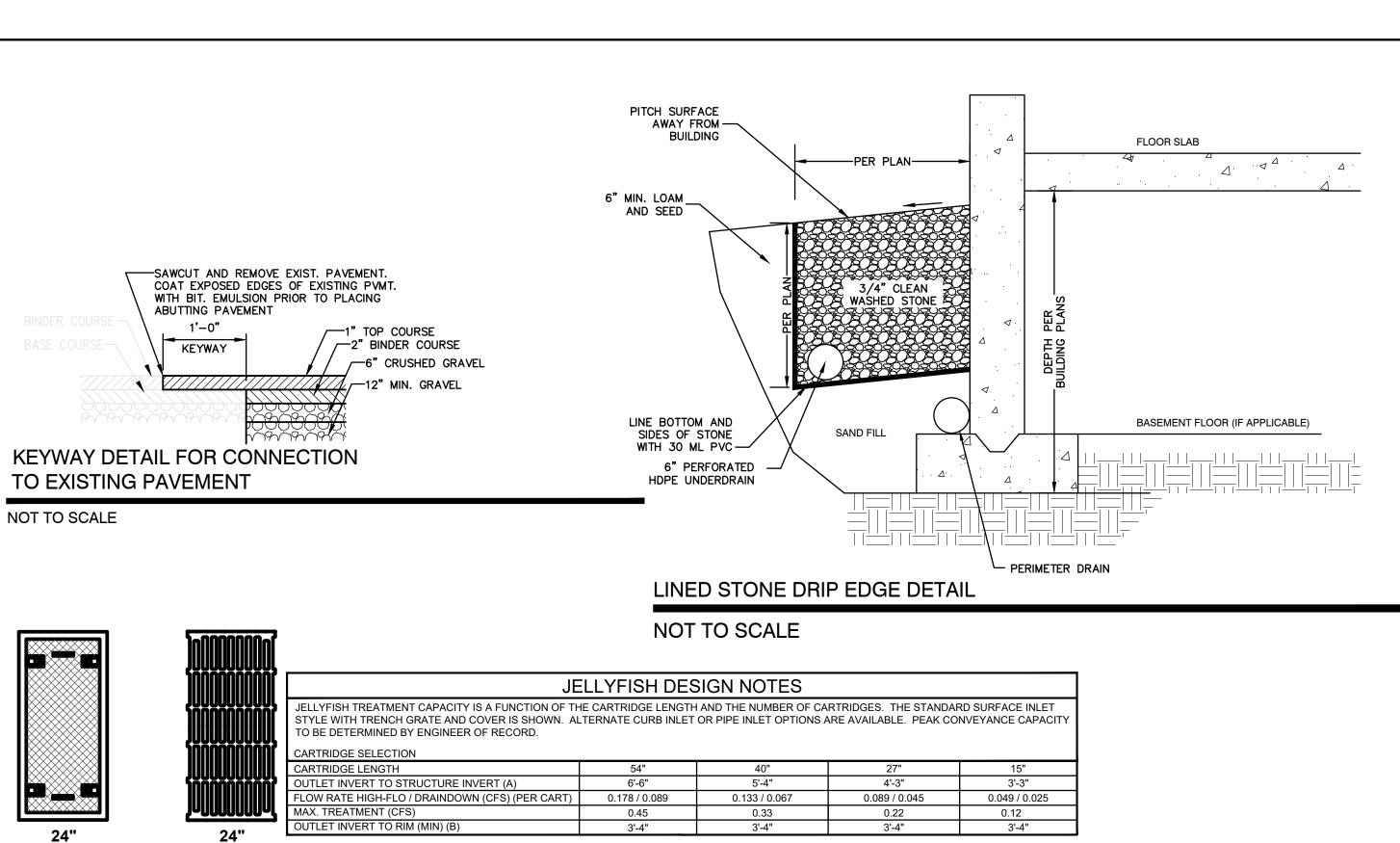
PRETX CURB INLET PRE-TREATMENT DETAIL

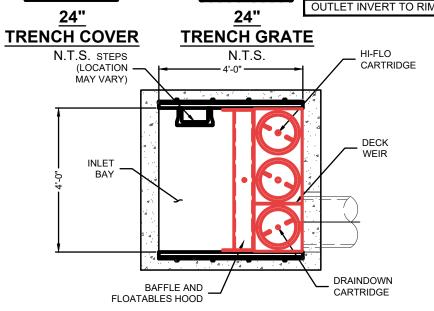
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7/29/24 6/6/24 4/11/24 **REVISION** DATE REV.





PLAN VIEW (TOP SLAB NOT SHOWN FOR CLARITY)

TRENCH FRAME AND REMOVABLE GRATE CARTRIDGE OUTLET PIPE — CARTRIDGE

CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

PER ENGINEER OF RECORD

WATER QUALITY FLOW RATE (cfs

RETURN PERIOD OF PEAK FLOW (yrs)

JTES/SPECIAL REQUIREMENTS

OF CARTRIDGES REQUIRED (HF / DD)

PIPE DATA: SEE GRADING AND DRAINAGE PLAN SEE GENERAL NOTES 6-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.

PEAK FLOW RATE (cfs)

CARTRIDGE LENGTH

PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com 3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN

2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT,

SITE SPECIFIC

DATA REQUIREMENTS

1.91 | 1.74

SEEPLAN

DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.

4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION

- REQUIREMENTS. WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0'. AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD. 6. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
- 7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE (WHERE APPLICABLE) AT EQUAL OR GREATER
- 8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE

CAPACITY TO LIFT AND SET THE STRUCTURE.

- SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH
- C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
- D. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

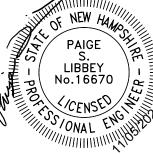
ELEVATION VIEW

www.ContechES.com

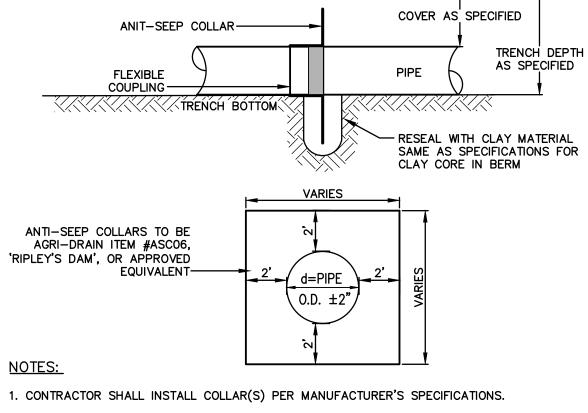
CONTECH "JELLYFISH" JFSI0404 - SURFACE INLET CONFIGURATION DETAIL

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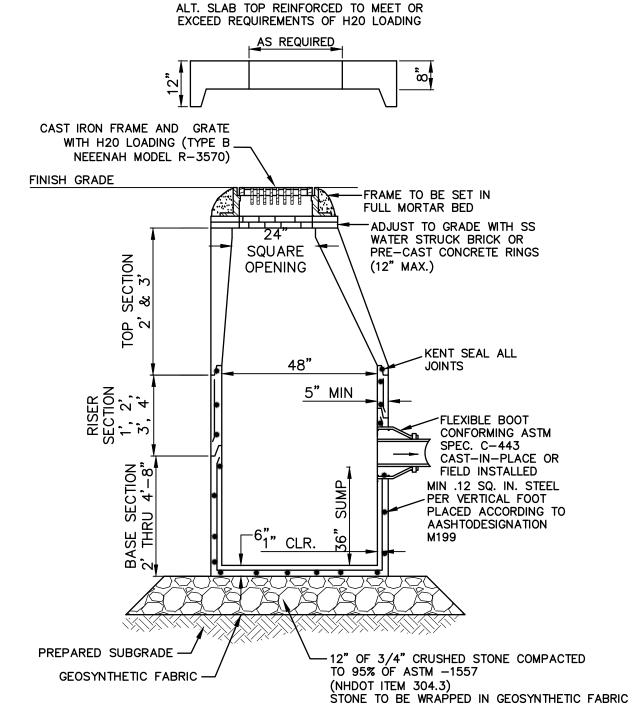
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Ç	REV.	DATE	REVISION	BY



- 2. CONTRACTOR SHALL ENSURE A WATERTIGHT SEAL BETWEEN THE COLLAR(S) AND PIPE(S).
- 3. ANTI-SEEP COLLARS SHALL BE PLACED ±15' AND ±25' DOWNSTREAM OF THE CULVERT INLETS, UNLESS OTHERWISE SPECIFIED. WHEN A CLAY CORE IS SPECIFIED, A COLLAR SHALL BE INSTALLED ON BOTH SIDES OF THE CORE.

ANTI-SEEP COLLAR

NOT TO SCALE



- 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20
- 5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 7. ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHDOT CATCH BASIN TYPE ALTERNATE 1 OR NEENAH R-3570 OR APPROVED EQUAL (24"x24"
- 8. STANDARD CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE 'DONUTS'.

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CATCH BASIN

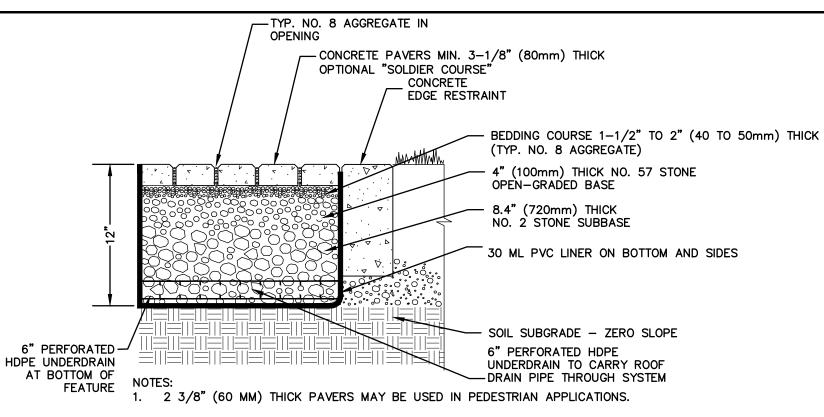
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85 Portsmouth Ave. Civil Engineering Services

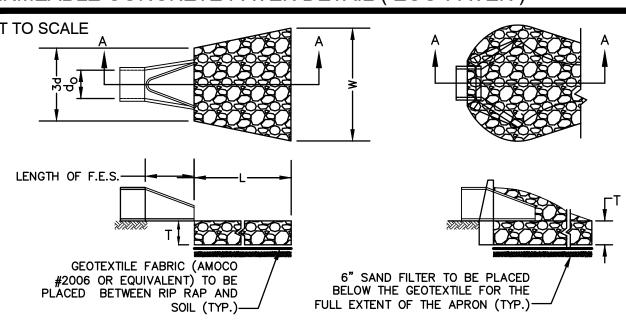
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- 2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.
- 3. INSTALLATION TO BE PERFORMED TO MANUFACTURER'S GUIDLINES AND THE PERMEABLE INTERLOCKING CONCRETE PAVEMENT SPECIFICATIONS.
- 4. THIS DETAIL IS FOR ECO-PAVERS FOR CONSTRUCTION WHERE SHOWN ON SHEET C2. SEE

ALSO STANDARD PAVER DETAIL ON SHEET D4. PERMEABLE CONCRETE PAVER DETAIL ("ECO-PAVER"



SECTION A-A PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

SECTION A-A PIPE OUTLET TO WELL-DEFINED CHANNEL

		OFFICIAL
TABLE 7-24RECOMMENDE	D RIP RAP GRADATI	ON RANGES
THICKNESS OF RIP RAP = 0	0.75 FEET	
d50 SIZE= 0.25	FEET 3	INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STON FROM	NE (INCHES) TO
100%	5	6
85%	4	5
50%	3	5
15%	1	2

TABLE 7-24RECOMMENDE	D RIP RAP GRADA	TION RANGES
THICKNESS OF RIP RAP =	1.5 FEET	
d50 SIZE= 0.5	FEET 6	INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STO FROM	ONE (INCHES) TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

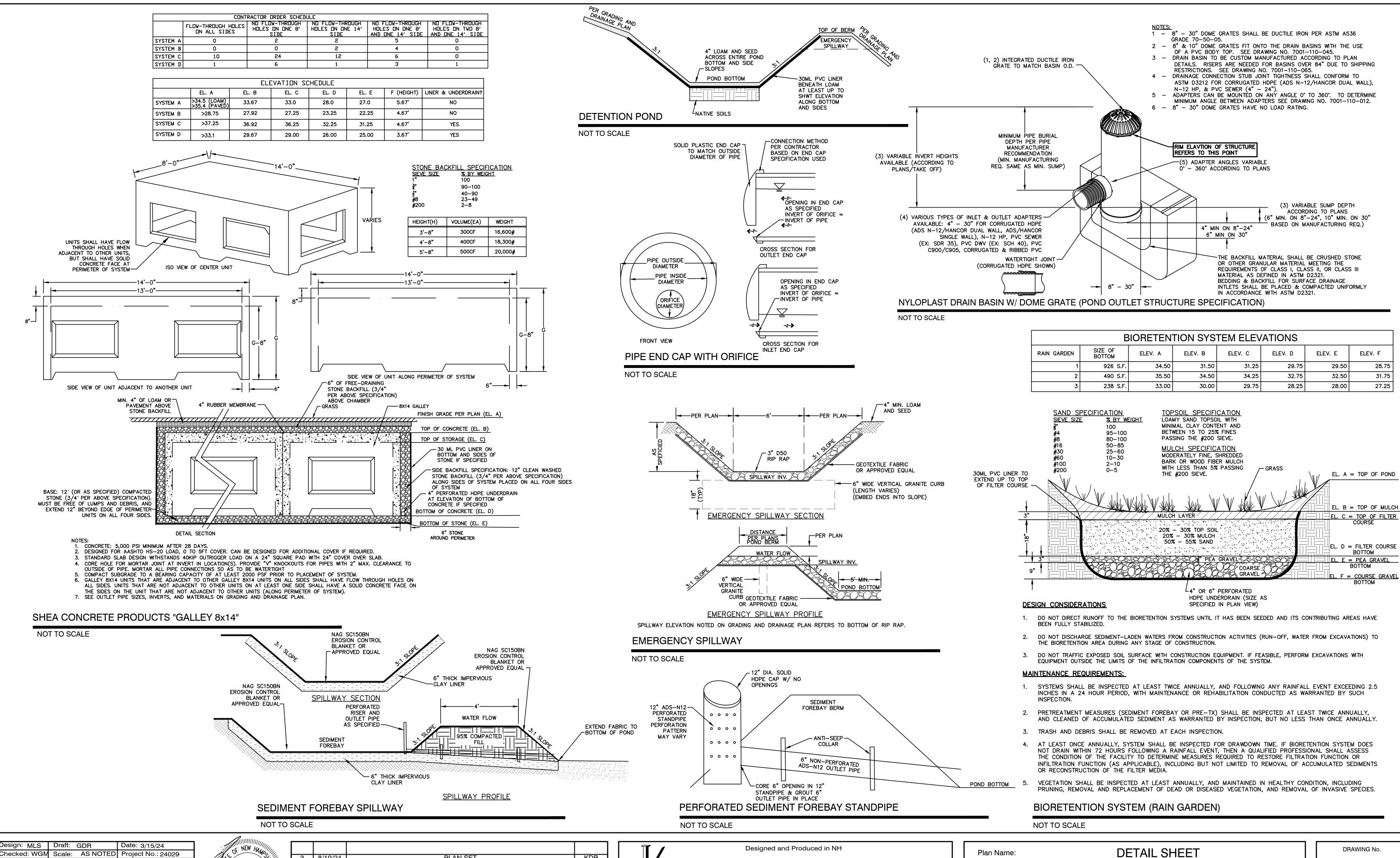
- 1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- 2. THE RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- 4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE
- 5. OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE
- 6. MAINTENANCE: THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

RIP RAP OUTLET PROTECTION APRON

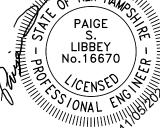
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Plan Name:	DETAIL SHEET	
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH	
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH	

DRAWING No. **SHEET 15 OF 20** JBE PROJECT NO. 24029



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Project:

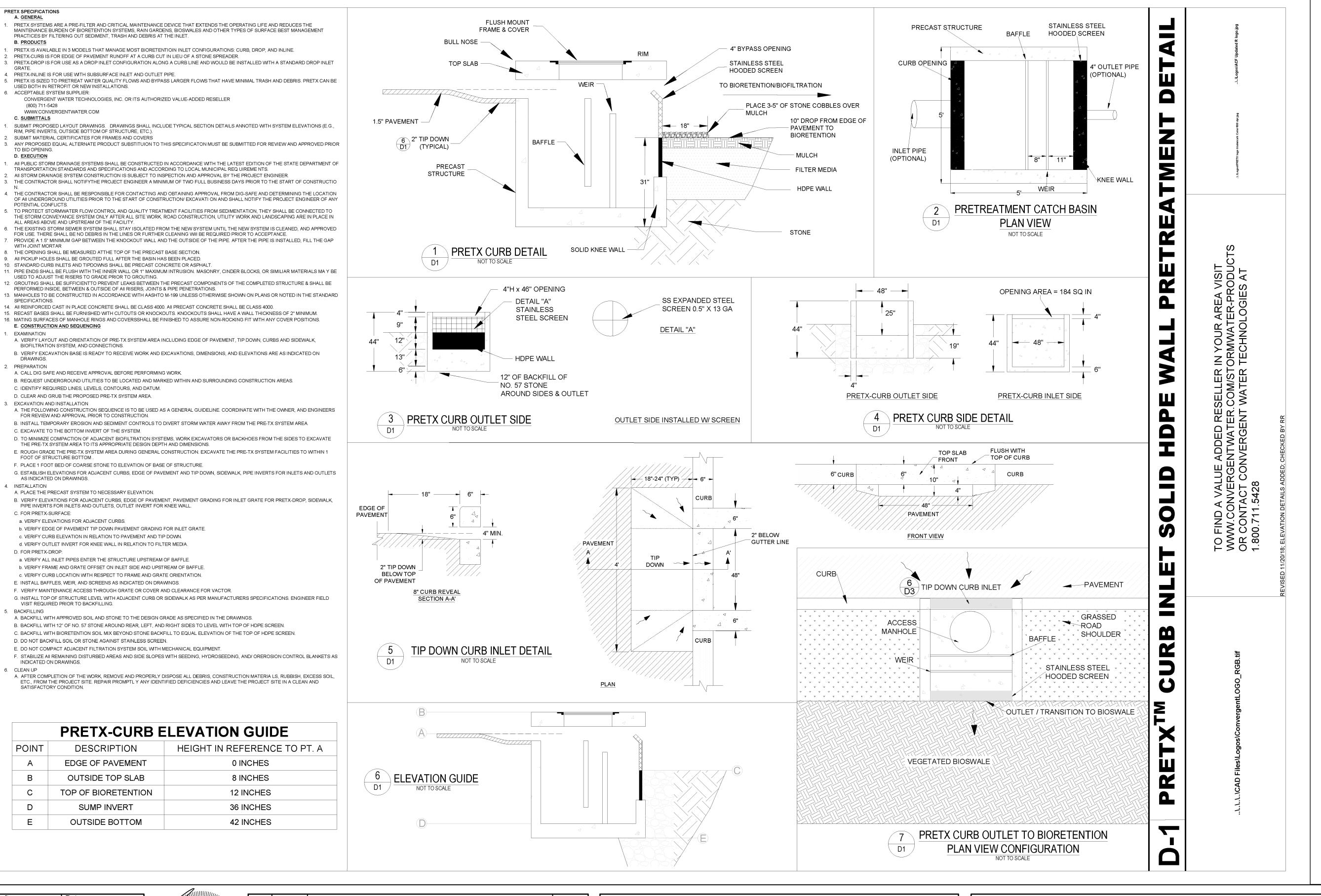
Project:

76 PORTSMOUTH AVE, EXETER, NH

Owner of Record:

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50 ATLANTIC AVE, SEABROOK, NH

D5
SHEET 16 OF 20
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PRETX SPECIFICATIONS

(800) 711-5428

C. SUBMITTALS

TO BID OPENING.

WITH JOINT MORTAR

SPECIFICATIONS.

PREPARATION

3. EXCAVATION AND INSTALLATION

FOOT OF STRUCTURE BOTTOM.

AS INDICATED ON DRAWINGS.

C. FOR PRETX-SURFACE:

D. FOR PRETX-DROP:

PRETX SYSTEMS ARE A PRE-FILTER AND CRITICAL MAINTENANCE DEVICE THAT EXTENDS THE OPERATING LIFE AND REDUCES THE

PRETX IS AVAILABLE IN 3 MODELS THAT MANAGE MOST BIORETENTIOIN INLET CONFIGURATIONS: CURB, DROP, AND INLINE.

PRACTICES BY FILTERING OUT SEDIMENT, TRASH AND DEBRIS AT THE INLET.

4. PRETX-INLINE IS FOR USE WITH SUBSURFACE INLET AND OUTLET PIPE.

USED BOTH IN RETROFIT OR NEW INSTALLATIONS.

SUBMIT MATERIAL CERTIFICATES FOR FRAMES AND COVERS

ALL AREAS ABOVE AND UPSTREAM OF THE FACILITY.

8. THE OPENING SHALL BE MEASURED ATTHE TOP OF THE PRECAST BASE SECTION. 9. All PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED. 10. STANDARD CURB INLETS AND TIPDOWNS SHALL BE PRECAST CONCRETE OR ASPHALT.

A. CALL DIG SAFE AND RECEIVE APPROVAL BEFORE PERFORMING WORK.

THE PRE-TX SYSTEM AREA TO ITS APPROPRIATE DESIGN DEPTH AND DIMENSIONS.

F. PLACE 1 FOOT BED OF COARSE STONE TO ELEVATION OF BASE OF STRUCTURE.

PIPE INVERTS FOR INLETS AND OUTLETS, OUTLET INVERT FOR KNEE WALL.

c. VERIFY CURB ELEVATION IN RELATION TO PAVEMENT AND TIP DOWN.

d. VERIFY OUTLET INVERT FOR KNEE WALL IN RELATION TO FILTER MEDIA.

a. VERIFY ALL INLET PIPES ENTER THE STRUCTURE UPSTREAM OF BAFFLE.

E. INSTALL BAFFLES, WEIR, AND SCREENS AS INDICATED ON DRAWINGS.

D. DO NOT BACKFILL SOIL OR STONE AGAINST STAINLESS SCREEN.

b. VERIFY FRAME AND GRATE OFFSET ON INLET SIDE AND UPSTREAM OF BAFFLE.

F. VERIFY MAINTENANCE ACCESS THROUGH GRATE OR COVER AND CLEARANCE FOR VACTOR.

E. DO NOT COMPACT ADJACENT FILTRATION SYSTEM SOIL WITH MECHANICAL EQUIPMENT.

DESCRIPTION

EDGE OF PAVEMENT

OUTSIDE TOP SLAB

TOP OF BIORETENTION

SUMP INVERT

OUTSIDE BOTTOM

A. BACKFILL WITH APPROVED SOIL AND STONE TO THE DESIGN GRADE AS SPECIFIED IN THE DRAWINGS.

B. BACKFILL WITH 12" OF NO. 57 STONE AROUND REAR, LEFT, AND RIGHT SIDES TO LEVEL WITH TOP OF HDPE SCREEN.

C. BACKFILL WITH BIORETENTION SOIL MIX BEYOND STONE BACKFILL TO EQUAL ELEVATION OF THE TOP OF HDPE SCREEN.

PRETX-CURB ELEVATION GUIDE

0 INCHES

8 INCHES

12 INCHES

36 INCHES

42 INCHES

c. VERIFY CURB LOCATION WITH RESPECT TO FRAME AND GRATE ORIENTATION.

b. VERIFY EDGE OF PAVEMENT TIP DOWN PAVEMENT GRADING FOR INLET GRATE.

C. IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM.

D. CLEAR AND GRUB THE PROPOSED PRE-TX SYSTEM AREA.

FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

A. PLACE THE PRECAST SYSTEM TO NECESSARY ELEVATION.

a. VERIFY ELEVATIONS FOR ADJACENT CURBS.

VISIT REQUIRED PRIOR TO BACKFILLING.

INDICATED ON DRAWINGS

POINT

D

C. EXCAVATE TO THE BOTTOM INVERT OF THE SYSTEM.

PERFORMED INSIDE, BETWEEN & OUTSIDE OF All RISERS, JOINTS & PIPE PENETRATIONS.

14. All REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000. All PRECAST CONCRETE SHALL BE CLASS 4000.

15. RECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.

A. VERIFY LAYOUT AND ORIENTATION OF PRE-TX SYSTEM AREA INCLUDING EDGE OF PAVEMENT, TIP DOWN, CURBS AND SIDEWALK,

B. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND SURROUNDING CONSTRUCTION AREAS.

B. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS TO DIVERT STORM WATER AWAY FROM THE PRE-TX SYSTEM AREA.

USED TO ADJUST THE RISERS TO GRADE PRIOR TO GROUTING.

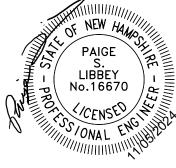
WWW.CONVERGENTWATER.COM

PRETX-CURB IS FOR EDGE OF PAVEMENT RUNOFF AT A CURB CUT IN LIEU OF A STONE SPREADER.

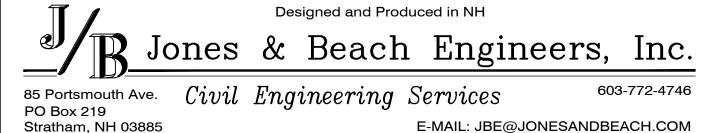
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TRANSPORTATION STANDARDS AND SPECIFICATIONS AND ACCORDING TO LOCAL MUNICIPAL REQ UIREME NTS.

. AII STORM DRAINAGE SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT ENGINEER.



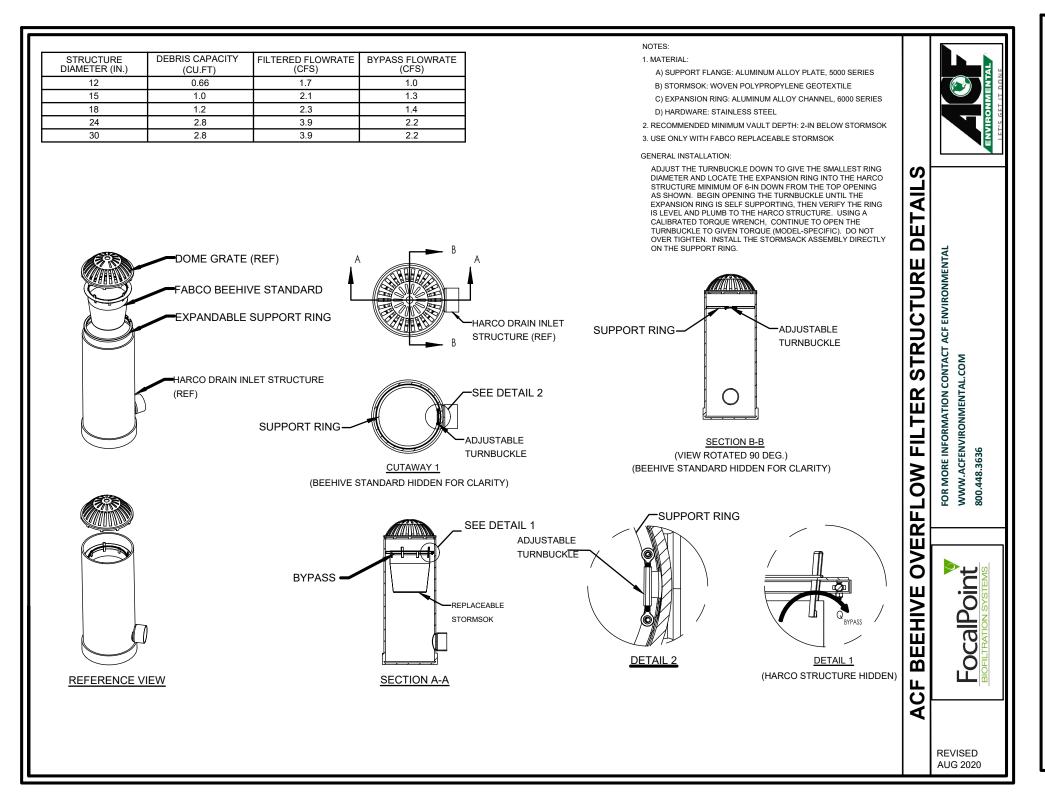
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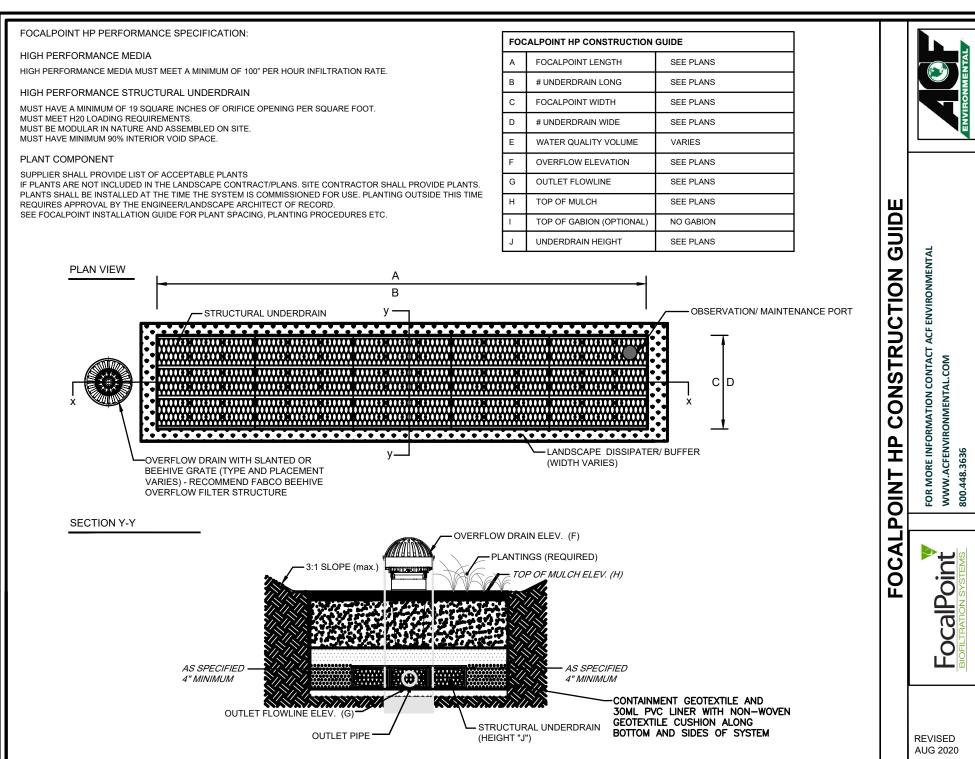


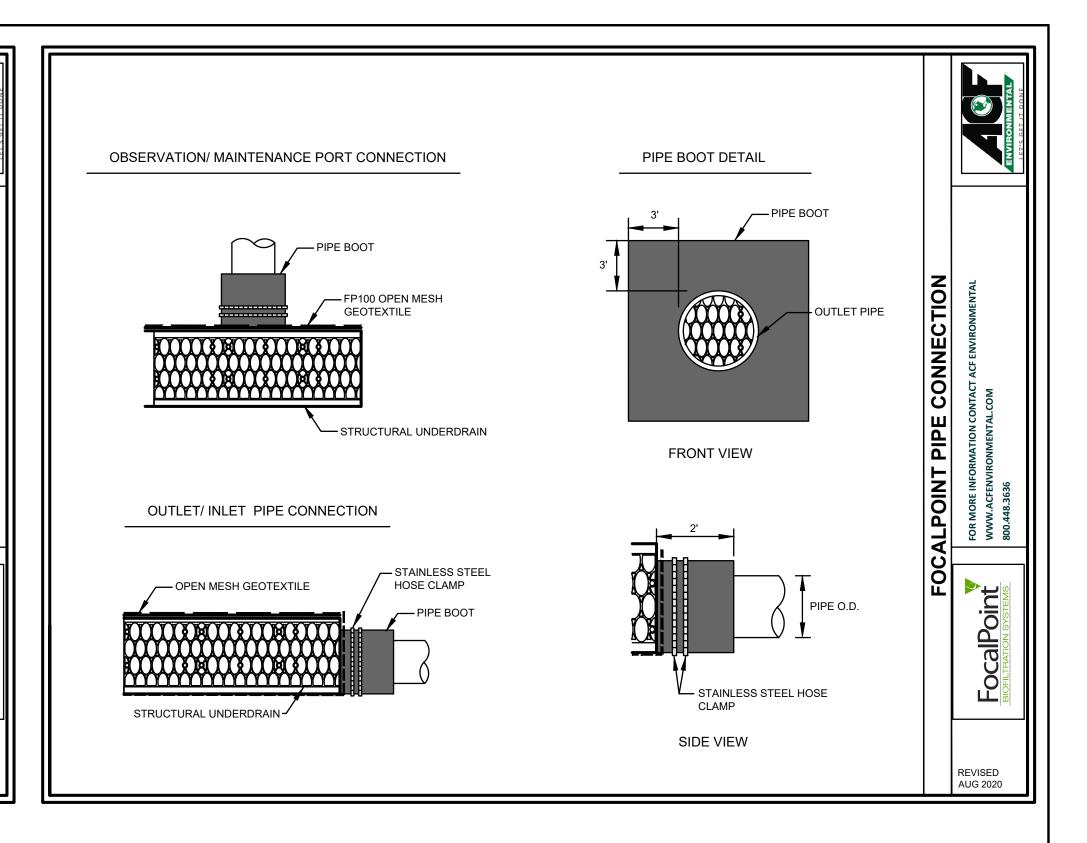
Plan Name:	DETAIL SHEET	
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH	
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH	

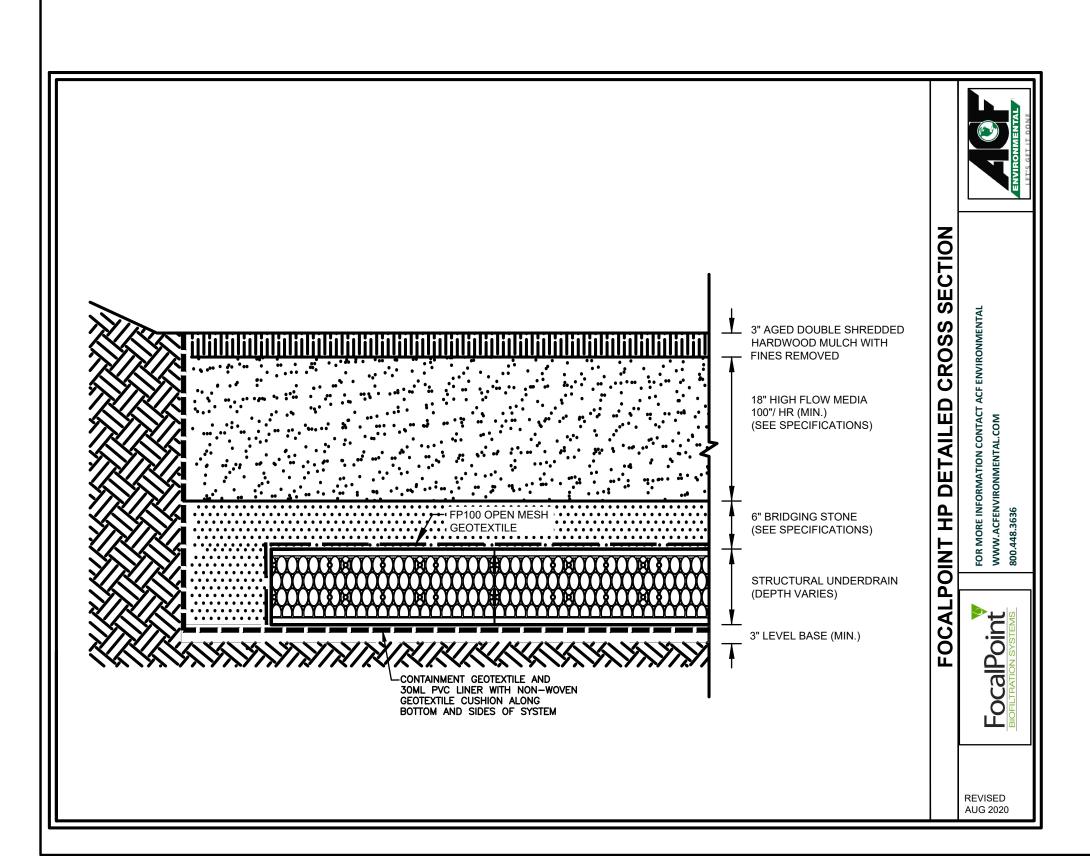
SHEET 17 OF 20 JBE PROJECT NO. 24029

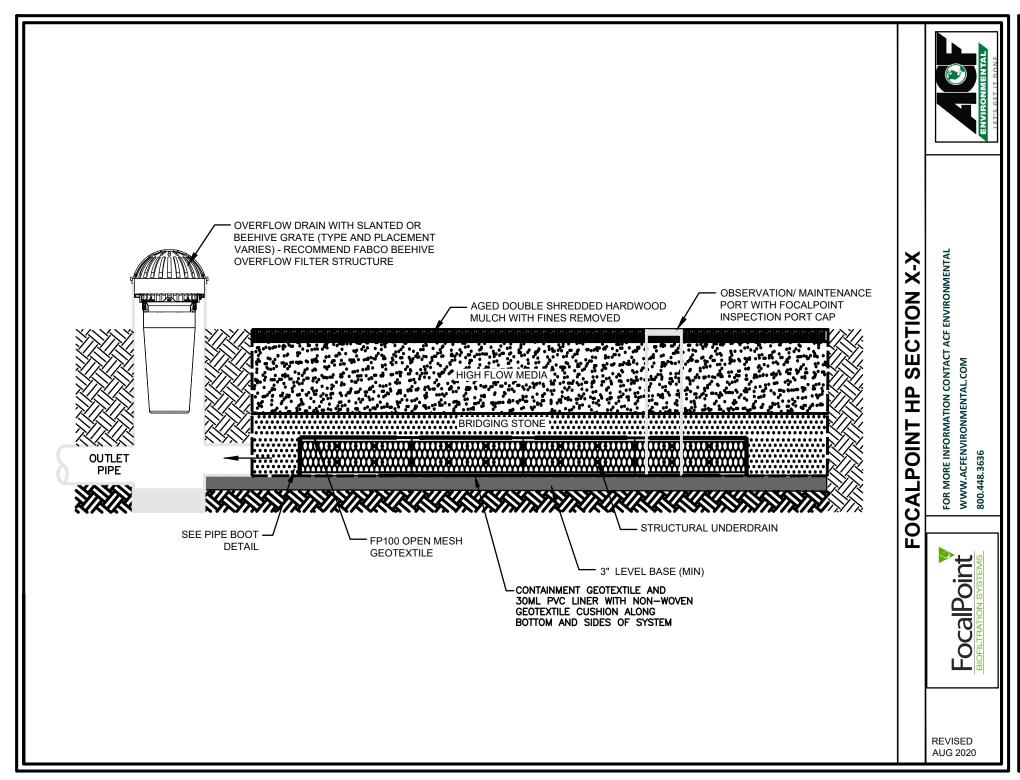
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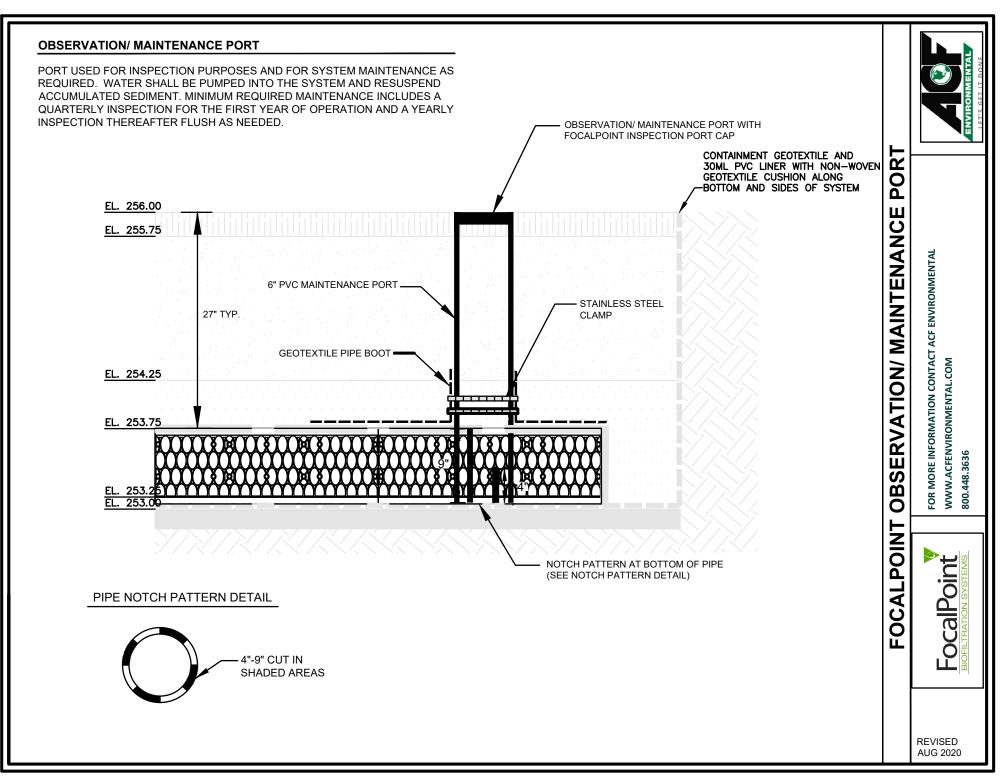




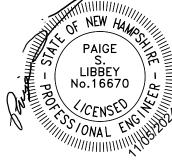








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Designed and Produced in NH

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Designed and Produced in NH

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		_	
Plan Name:	DETAIL SHEET		
Project:	"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH		
Owner of Record:	RAP REALTY MANCHESTER LLC 50 ATLANTIC AVE, SEABROOK, NH		JBE F

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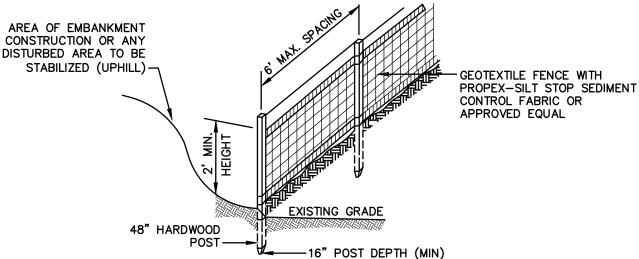
SHEET 18 OF 20
JBE PROJECT NO. 24029

TEMPORARY EROSION CONTROL NOTES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- 4. SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- 10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - c. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 11. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 12. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES
- 13. PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS
- 14. IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE
- WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SWPPP: a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL <u>OR</u> A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF
- b. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/2 INCH OR GREATER RAIN EVENT (I.E. 1/2 INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS
- c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.

TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT")

- d. WITHIN 24 HOURS OF EACH INSPECTION, THE MONITOR SHALL SUBMIT A REPORT TO DES VIA EMAIL (RIDGELY MAUCK AT: RIDGELY.MAUCK@DES.NH.GOV).
- e. THE MONITOR SHALL MEET WITH DES TO DECIDE UPON A REPORT FORMAT. THE REPORT FORMAT SHALL BE REVIEWED AND APPROVED BY DES PRIOR TO THE START OF CONSTRUCTION.



CONSTRUCTION SPECIFICATIONS:

- WOVEN FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM AND EMBEDDED IN THE GROUND A MINIMUM OF 8" AND THEN COVERED WITH SOIL.
- 2. THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 6' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.

Date: 3/15/24

- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.
- 5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

SILT FENCE SHALL REMAIN IN PLACE FOR 24 MONTHS.

Design: MLS | Draft: GDR

SILT FENCE

NOT TO SCALE

-MAXIMUM RECOMMENDED UNCONTROLLED SLOPE LENGTH ➤ DISTURBED AREA (UPHILL) -CONTOUR LINES__ -----600' RECOMMENDED MAXIMUM FENCING IS TO RUN WITH THE CONTOURS ACROSS A SLOPE -FLARE ENDS UPHILL TO PROVIDE TRAPPING CAPABILITY AND SEDIMENT STORAGE AREA

7. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND REVEGETATED.

<u>MAINTENANCE:</u>

- 1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.
- 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
- 4. SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SEEDING SPECIFICATIONS

- GRADING AND SHAPING A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS
- SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED). B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

2. <u>SEEDBED PREPARATION</u>

- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING
- OR WINTER KILLING OF THE PLANTS. B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

3. ESTABLISHING A STAND

- A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE
- AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT. NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT.
- PHOSPHATE(P205), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
- POTASH(K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT. (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER
- ACRE OF 5-10-10.) B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS
- INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
- C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT, TREFOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
- D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING. B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

5. MAINTENANCE TO ESTABLISH A STAND

- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED
- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C	FAIR POOR POOR	GOOD GOOD GOOD	GOOD FAIR EXCELLENT	FAIR FAIR GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENC' SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	Y A C	GOOD GOOD	GOOD EXCELLENT	GOOD EXCELLENT	FAIR FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A B C	GOOD GOOD GOOD	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR POOR FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E F	FAIR FAIR	EXCELLENT EXCELLENT	EXCELLENT EXCELLENT	<u>2/</u> 2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.

2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

SEEDING GUIDE

MIXTURE	POUNDS <u>PER_ACRE</u>	POUNDS F <u>1.000 Sq.</u>
A. TALL FESCUE CREEPING RED FESCUE RED TOP TOTAL	20 20 2 42	0.45 0.45 <u>0.05</u> 0.95
B. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR	15 10 15	0.35 0.25 0.35
FLAT PEA TOTAL	30 40 OR 55	0.75 0.95 OR 1.3
C. TALL FESCUE CREEPING RED FESCUE BIRDS FOOT TREFOIL TOTAL	20 20 <u>8</u> 48	0.45 0.45 <u>0.20</u> 1.10
D. TALL FESCUE FLAT PEA TOTAL	20 <u>30</u> 50	0.45 <u>0.75</u> 1.20
E. CREEPING RED FESCUE 1/ KENTUCKY BLUEGRASS 1/ TOTAL	50 50 100	1.15 1.15 2.30
F. TALL FESCUE 1	150	3.60
1/FOR HEAVY USE ATHLETIC FIEL NEW HAMPSHIRE COOPERATIVE EXTUURRENT VARIETIES AND SEEDING	TENSION TURF SPI	

SEEDING RATES

E-MAIL: JBE@JONESANDBEACH.COM

50' MINIMUM (75 W/O MOUNTABLE BERM) **EXISTING** PAVEMENT -MOUNTABLE 6" MIN.-LEXISTING GROUND BERM (OPTIONAL) **WOVEN GEOTEXTILE** FILTER FABRIC-50' MINIMUM (75' W/O MOUNTABLE BERM) PAVEMENT-PLAN VIEW

- 1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED
- STONE, OR RECYCLED CONCRETE EQUIVALENT. 2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, 75' WITHOUT A MOUNTABLE BERM, AND EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30
- FOOT MINIMUM LENGTH WOULD APPLY. 3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6
- 4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE
- ENTRANCE WHERE INGRESS OR EGRESS OCCURS, OR 10 FEET, WHICHEVER IS GREATER. 5. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING
- THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT. 6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE
- BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR
- FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

CONSTRUCTION SEQUENCE

- 1. PRIOR TO THE START OF ANY ACTIVITY, IT IS THE RESPONSIBILITY OF THE SITE'S SITE DEVELOPER (OR OWNER) TO FILE A NOTICE OF INTENT (NOI) FORM WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) IN ORDER TO GAIN COVERAGE UNDER THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. A PRE CONSTRUCTION MEETING IS TO BE HELD WITH ALL DEPARTMENT HEADS PRIOR TO THE START OF CONSTRUCTION.
- 2. WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION. AT LEAST A TEMPORARY CULVERT OR ROADBED TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- 3. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
- 4. INSTALL SILT FENCING, HAY BALES AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THÉ FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
- 5. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
- 6. CONSTRUCT AND/OR INSTALL TEMPORARY OR PERMANENT SEDIMENT AND/OR DETENTION BASIN(S) AS REQUIRED. THESE FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.
- 7. STRIP LOAM AND PAVEMENT, OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK PER THE RECOMMENDATIONS OF THE PROJECT ENGINEER AND STOCKPILE EXCESS MATERIAL. STABILIZE STOCKPILE AS NECESSARY.
- 8. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS AND SOUND WALLS.
- 9. PREPARE BUILDING PAD(S) TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
- 10. INSTALL THE SEWER AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
- 11. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
- 12. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- 13. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
- 14. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
- 15. PAVE ALL PARKING LOTS AND ROADWAYS WITH INITIAL 'BASE COURSE'.
- 16. PERFORM ALL REMAINING SITE CONSTRUCTION (i.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
- 17. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
- 18. FINISH PAVING ALL ROADWAYS AND PARKING AREAS WITH 'FINISH' COURSE.
- 19. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 20. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 21. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 22. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 23. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
- 24. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
- 25. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
- 26. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING

AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

EROSION AND SEDIMENT CONTROL DETAILS

Project:

Owner of Record:

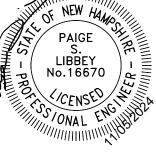
"LILAC PLACE" 76 PORTSMOUTH AVE, EXETER, NH RAP REALTY MANCHESTER LLC

50 ATLANTIC AVE, SEABROOK, NH

SHEET 19 OF 20 JBE PROJECT NO. 24029

DRAWING No.

Checked: WGM Scale: AS NOTED Project No.: 24029 Drawing Name: 24029-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE T THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



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85 Portsmouth Ave. Civil Engineering Services 603-772-4746 PO Box 219

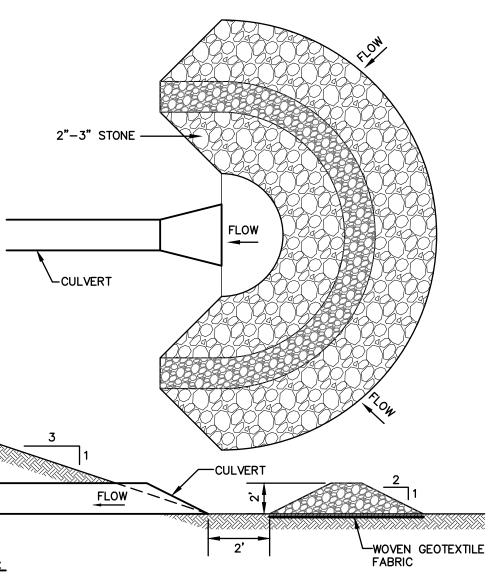
Stratham, NH 03885

Designed and Produced in NH

-SILT FENCE WOODEN STAKES (SEE DETAIL) (2 PER BALE)--STAKED AND ENTRENCHED STRAW/HAY BALE BINDING WIRE OR TWINE--SOIL COMPACTED TO PREVENT PIPING FILTERED RUNOFF-SEDIMENT-LADEN RUNOFF

HAYBALE DETAIL

NOT TO SCALE



- TEMPORARY CULVERT INLET PROTECTION CHECK DAMS SHALL BE CONSTRUCTED OF 2-3" STONE OVER WOVEN GEOTEXTILE FABRIC.
- 2. INLET PROTECTION MEASURES SHALL BE INSTALLED AT THE OPENINGS OF ALL EXISTING AND PROPOSED CULVERTS LOCATED BELOW (DOWNSTREAM) FROM AND WITHIN 100' OF THE
- 3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURE WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
- 4. STRUCTURES SHALL BE REMOVED WHEN THE SITE IS STABILIZED WITH VEGETATION AND THE CHANNEL SHALL BE SMOOTHED AND REVEGETATED.

TEMPORARY CULVERT INLET PROTECTION CHECK DAM

Date: 3/15/24

NOT TO SCALE

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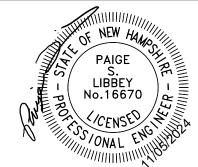
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PLAN SET 3 8/19/24 CONCEPT 3 7/29/24 6/6/24 **REVISED PER CLIENT** PSL **ISSUED FOR REVIEW** 0 4/11/24 PSL **REVISION** BY REV. DATE

FILTREXX SEDIMENT TRAP DETAIL

NOT TO SCALE

CROSS SECTION

(L= DISTANCE SUCH THAT POINTS

'A' & 'B' ARE OF EQUAL ELEVATION)

. STONE CHECK DAMS SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING

BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE

PROLONGED RAINFALL. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO

STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED

2"-3" STONE-

BOTTOM OF SWALE

TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

FLOW

MAINTENANCE NOTE:

STONE CHECK DAM

NOT TO SCALE

RIPRAP PROTECTION APRON (TYP. FOR D50=3", T=7.5" (MIN.))-NORTH AMERICAN GREEN BIONET S75 **EROSION CONTROL BLANKET** (OR APPROVED EQUAL) TO BE INSTALLED WITH BIO-DEGRADABLE 'BIO' OR 'ECO-STAKES' IN STAPLE PATTERN 'C 30' (TYP.) 4' DEEP LOAM AND SEED UNDISTURBED EARTH

- 1. CONSTRUCT LEVEL SPREADER LIP ON ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF. 2. VERTICAL GRANITE CURB SHALL BE PLACED A MINIMUM OF SIX INCHES DEEP AND EXTEND ENTIRE LENGTH
- 3. THE RIP RAP APRON PRIOR TO THE LEVEL SPREADER SHALL NOT EXCEED A 0 PERCENT GRADE.
- 4. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER MUST NOT RECONCENTRATE IMMEDIATELY BELOW THE SPREADER.
- 5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
- 6. MAINTENANCE: LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE SPREADER HAS BEEN DAMAGED. SEDIMENT DEEPER THAN FOUR INCHES ACCUMULATION SHOULD BE REMOVED. IF RILLING HAS TAKEN PLACE ON LIP, THEN DAMAGE SHOULD BE REPAIRED AND REVEGETATED. VEGETATION SHOULD BE MOWED OCCASIONALLY TO CONTROL WEEDS AND ENCROACHMENT OF WOODY VEGETATION. CLIPPINGS SHOULD BE REMOVED AND DISPOSED OF OUTSIDE SPREADER AND AWAY FROM OUTLET AREA. FERTILIZATION SHOULD BE DONE AS NECESSARY TO KEEP VEGETATION HEALTHY AND DENSE.

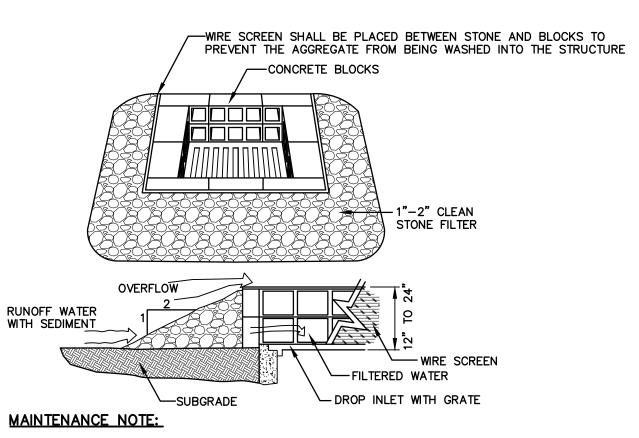
LEVEL SPREADER DETAIL

STAKES. SUCCESSIVE LAYERS SHALL BE STAKED WITH 1/2" REBAR AT A

PO Box 219

Stratham, NH 03885

NOT TO SCALE



1. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINFALL AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED IN A SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

TEMPORARY CATCH BASIN INLET PROTECTION (Block and Gravel Drop Inlet Sediment Filter)

NOT TO SCALE

- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEMTM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



NOTES:

NORTH AMERICAN GREEN 14649 HIGHWAY 41 NORTH EVANSVILLE, INDIANA 47725 1-800-772-2040

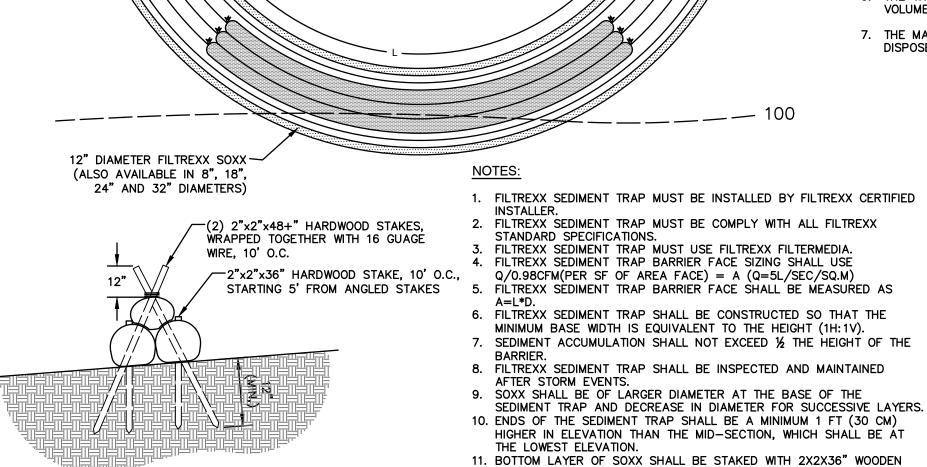
NOT TO SCALE

GENERAL NOTES:

- 1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP
- 3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- 4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- 5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
- 6. THE TRAP SHALL BE CLEANED WHEN 50% OF THE ORIGINAL VOLUME IS FILLED.

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7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OFF AND STABILIZED.



______ 101.5

EROSION CONTROL BLANKET SLOPE INSTALLATION (North American Green SC150BN)

Designed and Produced in NH **EROSION AND SEDIMENT CONTROL DETAILS** "LILAC PLACE" Project: 85 Portsmouth Ave. Civil Engineering Services 603-772-4746

76 PORTSMOUTH AVE, EXETER, NH RAP REALTY MANCHESTER LLC Owner of Record: 50 ATLANTIC AVE, SEABROOK, NH

SHEET 20 OF 20 JBE PROJECT NO. 24029

DRAWING No.