

Civil Site Planning Environmental Engineering

133 Court Street Portsmouth, NH 03801-4413

April 2, 2019

Juliet T. H. Walker, AICP, Planning Director City of Portsmouth Municipal Complex Planning Department 1 Junkins Avenue Portsmouth, New Hampshire 03801

Re: TAC Work Session Arbor View Apartments, 145 Lang Road Assessor's Map 287, Lot 01 Altus Project #P4787

Dear Juliet:

On behalf of Forest Properties Management, Altus Engineering, Inc. (Altus) respectfully submits the following material for consideration at TAC Work Session for The Arbor View Apartments, a 44 unit residential development expansion at the existing complex located at 145 Lang Road. Enclosed please find the following items for consideration at the April 9th meeting:

- Application for TAC Work Session
- Letter of Authorization
- 4 full sized Site Plans (22" x 34")
- 6 reduced Site Plans (11" x 17")
- PDF Copy of Submission Package

We look forward to input from the Committee to address any concerns as we continue to advance and refine the plans. As always, Altus looks forward to working with the Planning Department on this exciting redevelopment project. Please call me if you have any questions or need any additional information.

Sincerely

Cory Belden, PE Project Manager

Enclosure Ecopy: Anderson Libert, Forest Properties Management Mark Gianniny, McHenry Architecture

CITY OF PORTSMOUTH NEW HAMPSHIRE

WORK SESSION APPLICATION

TECHNICAL ADVISORY COMMITTEE

Map <u>278</u> Lot <u>1</u> Zone <u>GA/MH</u> We	etlands: Inland X Coastal Lot Area 35.53 acres
Date of Appr	rovals (Indicate if Pending)
Conservation Commission Condition	ional Use Board of Adjustment
Historic District Commission Subdiv	vision Other
Street Address145 Lang Road, Portsmouth, NH	
Description of Project including all use(s) Proposed	expansion of existing multi-family residential development.
Proposed project will construct two new three story m	multi-family residential buildings with 18 and 24 units. The
density and building length were approved by Board	of Adjustment at the Novemenr 20, 2018 meeting.
Building(s) Footprint18,193 sf Gross	Floor Area_57,041 sf#of Stories3-Stories
# of Dwelling Units <u>186 (42 new)</u> Number of Parkin	ng Spaces: Existing 296 Proposed 340
Print	t Information Below
Property Owner's Name Arbor View & The Pin	nes, LLC
Street Address 625 Mt. Auburn St., Suite 210	City/TownCambridgeStateMAZip02138
Telephone # Cell Phone #	Fay # Email Address
Print	nt Information Below
Applicant's / Developer's Name Forest Properties	s Management, Inc. (Anderson Libert, COO)
Street Address 134 North 4th St	City/Tourn Brooklym State NH 7in [12]]
617-630-9566 617-875-4388	alibert@forestproperties.net
Telephone # Cell Phone #	
Print Information Balay (Includ	de Additional Contact Information on Navi Base)
Check One: Owner's Attorney Applicant's Attorney Enginee	r X Surveyor O Other I If other, state relationship
Representative's Name Altus Engineering, Inc. (C	
	cory Belden, FE)
Street Address133 Court Street	City/Town Portsmouth State NH Zip03801
Street Address 133 Court Street 603-433-2335	City/Town Portsmouth State NH Zip 03801 cbelden@altus-eng.com
Street Address133 Court Street 603-433-2335 Telephone # Cell Phone #	City/Town Portsmouth State NH Zip 03801 cbelden@altus-eng.com Fax # Email Address
Street Address 133 Court Street 603-433-2335 603-433-2335 Telephone # Cell Phone # I hereby apply for an informal work session with the Technical Advir required in order to seek final approvals. I also acknowledge that a for ordinances and any stipulations of the Site Review Committee of the	City/Town Portsmouth State NH Zip 03801 cbelden@altus-eng.com Fax # Email Address isory Committee and understand that a formal Site Review application shall be formal Site Review application and fee shall be required to comply with all of the e City of Portsmouth in the development and construction of this project.
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At a minimum, the application for a Work Session shall include a site or subdivision plan reflecting the existing and proposed conditions. Any additional information the applicant wishes to provide for review and feedback by the TAC is optional. Typically applicants will be limited to one TAC Work Session per project.

Attachments

The following materials shall be submitted to the Planning Department by the Work Session submission deadline along with the completed Application Form:

Ten (10) folded copies of the site plan – four (4) full-size (22" x 34") and six (6) reduced (11" x 17")
 Digital copy of any plans and/or exhibits (in PDF format)

Letter of Authorization

I, Anderson Libert, of Arbor View & The Pines LLC and Forest Properties Management Inc., of Cambridge, MA, hereby authorize Altus Engineering, Inc. of Portsmouth, New Hampshire to represent Forest Properties Management Inc. in all matters concerning engineering and related permitting for the development of Arbor View Apartments, Portsmouth, NH. The property is identified on the Assessor's Maps as Tax Map 287, Lot 01 and is located at Lang Road and Joan Avenue in Portsmouth, NH. This authorization shall include any signatures required for Federal, State and Municipal permit applications.

Signature

<u>Libert</u> <u>Pickover</u> Jame

itness

Print Name

Beechstone Apartments Residential Development Project ARBOR VIEW & THE PINES, LLC 145 LANG ROAD Portsmouth, New Hampshire Assessor's Parcel 287-01

Owner/*Applicant*:

ARBOR VIEW & THE PINES, LLC 145 LANG ROAD PORTSMOUTH, NH 03801

c/o FOREST PROPERTIES MANAGEMENT, INC. 625 MOUNT AUBURN STREET, SUITE 210 CAMBRIDGE. MA 02138 CONTACT: ANDERSON LIBERT (617) 630-9560





133 COURT STREET (603) 433-2335

PORTSMOUTH, NH 0380 www.ALTUS-ENG.com

Architect:

McHENRY ARCHITECTURE

4 Market Street Portsmouth, New Hampshire 603.430.0274 Sur veyor:

James Verra and Associates, Inc. LAND SURVEYORS

101 SHATTUCK WAY - SUITE 8 NEWINGTON, N.H. 03801- 7876 603-436-3557

APRIL 2, 2019

Issued:

TAC WORK SESSION



Locus Map Scale: Not to Scale Sheet Index Title

Limited Existing Conditions Plans (by Jam General Notes Overall Site Plan Demolition Plan Site Plan Grading and Drainage Plan Utilities Plan (Not Included) Landscape Plan (Not Included) Site Lighting Plan (Not Included) Erosion Control Notes & Details Detail Sheet Detail Sheet Detail Sheet Detail Sheet Detail Sheet Detail Sheet Bldg 2 Overall Plan (by McHenry Architect Bldg 2 Unit Plans (by McHenry Architectu Bldg 2 Unit Plans (by McHenry Architectu Exterior Elevations - Bldg 2 (by McHenry Building Rendering (by McHenry Architectu

Permit Summary

Zoning Variances Granted on Nov. 20, 2018: 1) A variance from Section 10.521 to allow a lot area per dwelling unit of 8,321± s.f. where 10,000 s.f. is required 2) A variance from Section 10.522 to allow the building lengths of 225' & 170' for a multi-family dwelling where 160' is the maximum allowed.

APPROVED	ΒY	THE	PORTSMOUTH	PLANNING	BOARD
CHAIRM	IAN			DA	TE

	No.: 1	Rev.	Date
nes Verra and Associates, Inc.)	EC-1 to EC-3 GN-1 C-1 C-2 C-3 C-4 C-5 L-1		03/13/19 04/02/19 04/02/19 04/02/19 04/02/19 04/02/19 -
ture) ure) ure) / Architecture) ure)	D-1 D-2 D-3 D-4 D-5 D-6 D-7 A101 A102 A103 A301 A302		- 04/02/19 04/02/19 04/02/19 04/02/19 04/02/19 04/02/19 04/02/19 04/01/19 04/01/19 04/01/19 04/01/19 04/01/19

NOTES:

	OWNER OF RECORD ARBOR VIEW & ADDRESS C/O FOREST PR 625 MOUNT AUE CAMBRIDGE, MA	THE PINES, LLC (65%) OPERTIES MANAGEMENT, INC. BURN ST, SUITE 210 02138
	DEED REFERENCE	11, 13, 14, 24
	ZONED: GA/MH MINIMUM LOT AREA 5 ACRES FRONTAGE N/A	FRONT YARD SETBACK30' SIDE YARD SETBACK25' REAR YARD SETBACK25'
•	THE LOCATION OF ALL UNDERGROUND UTILITIES APPROXIMATE AND ARE BASED UPON THE FIELD STRUCTURES (IE CATCH BASINS, MANHOLES, WA COMPILED FROM PLANS PROVIDED BY UTILITY CO AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, PRIOR TO ANY EXCAVATION WORK AND CALL DIO	SHOWN HEREON ARE LOCATION OF ALL VISIBLE TER GATES ETC.) AND INFORMATION OMPANIES AND GOVERNMENTAL IN WRITING, SAID AGENCIES G—SAFE @ 1—888—DIG—SAFE.
	THIS PLAN IS BASED ON A FIELD SURVEY 5/20	16 & 2/2019 BY JAMES VERRA AND ASSOC

- THIS PLAN IS BASED ON A FIELD SURVEY 5/2016 & 2/2019 BY JAMES VERRA AND ASSOC., INC.
 ELEVATION DATUM: NAVD 1988 PRIMARY BM: CITY CONTROL POINT "ROBE"
- 6. CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE SETTING OR ESTABLISHMENT OF ANY GRADES/ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOC., INC.
- 7. PARCEL 287–1 & 287–1A ARE SUBJECT TO A UTILITY EASEMENT IN FAVOR OF PUBLIC SERVICE CO. OF NH & NEW ENGLAND TELEPHONE & TELEGRAPH, SEE RCRD BOOK 2528, PAGE 1362.

REFERENCE PLANS:

- 1. ALTA/ACSM LAND TITLE SURVEY, "COLONIAL PINES", PORTSMOUTH, N.H., OWNER: TGM BEECHSTONE, LLC, FOR: FOREST PROPERTIES MANAGEMENT, REVISED TO 7/10/2015, BY JAMES VERRA AND ASSOCIATES, INC., NOT RECORDED.
- 2. ALTA/ACSM LAND TITLE SURVEY, TAX MAP 287 LOT 1 & 1-A, PROPERTY OF TGM BEECHSTONE LLC, PORTSMOUTH, N.H., DATED 12/4/2014, BY MSC CIVIL ENGINEERS & LAND SURVEYORS, INC., NOT RECORDED.
- 3. LOT LINE REVISION PLAN, COLONIAL PINES APARTMENTS POOL & AMENITIES PROJECT, 35, 45 & 55 ANNE AVENUE, PORTSMOUTH, N.H., DATED 11/14/2016, RCRD PLAN D-40104.
- 4. LIMITED EXISTING CONDITIONS PLAN, PROPOSED GROUNDS IMPROVEMENTS, "ARBOR VIEW APARTMENTS", OFF JOAN & ROBERT AVENUES, PORTSMOUTH, N.H., DATED 6/3/2016, BY JAMES VERRA AND ASSOC., INC., NOT RECORDED.
- 5. REVISED AS BUILT PLAN FOR FORUM DEVELOPMENT, BEECHSTONE-PHASE II, OFF LANG ROAD, PORTSMOUTH, N.H., REVISED TO 2/20/1990, BY RICHARD P. MILLETTE AND ASSOC., NOT RECORDED.

ABUTTERS LIST

MAP-LOT	OWNER OF RECORD	DEED REF.
272-9-7	CEDARS CONDOMINIUM ASSOCIATION WHITE CEDARS BLVD, PORTMOUTH, NH 03801	DECL: 2566/2219
287-3	CITY OF PORTSMOUTH DPW 680 PEVERLY HILL RD, PORTSMOUTH, NH 03801	2230/277
288–1	CITY OF PORTSMOUTH 1 JUNKINS AVE, PORTSMOUTH, NH 03801	3278/1316
288–1–B	ERIN A. HAYES & JACOB B. WILSON 397 LANG RD, PORTSMOUTH, NH 03801	5953/482
288-7	KARA LAM & COLIN A. MCGEE 387 LANG RD, PORTSMOUTH, NH 03801	3285/2444
288–8	THERESA F. O'CALLAGHAN 379 LANG RD, PORTSMOUTH, NH 03801	5813/304
288–9	MICHAEL G. CORCORAN & SUSAN M. CORCORAN 365 LANG RD, PORTSMOUTH, NH 03801	4505/1454
288–10	LANA M. WOODCOCK & SCOTT B. WOODCOCK 359 LANG RD, PORTSMOUTH, NH 03801	5373/1142
291-1-1	SERVICE CREDIT UNION 3003 LAFAYETTE RD, PORTSMOUTH, NH 03801	N/A

SEWER & DRAIN TABLES

SMH# 5 RIM EL= 46.46 CL INV 8"PVC= 39.52

SMH# 6 RIM EL= 53.09 (1) INV OUT 8"PVC= 47.80

SMH# 7 RIM EL= 50.43 (1) INV IN 8"PVC= 41.15 (2) INV OUT 8"PVC= 40.93

SMH# 8 RIM EL= 49.79 (1) INV IN 8"PVC= 40.40 (2) INV OUT 8"PVC= 40.24

SMH# 9 (PAVED OVER) RIM EL= N/A

SMH# 10 RIM EL= 44.18 (1) INV OUT 8"PVC= 38.60

SMH# 11 RIM EL= 52.45 (1) INV OUT 8"PVC= 47.93

SEWER PUMP STATION 1 RIM EL= 51.08 (1) INV IN 8"PVC= 44.68 (2) INV IN 8"PVC= 38.03

SEWER PUMP STATION 2 RIM EL= 43.87 (1) INV IN 8"PVC= 37.12 (2) INV IN 8"PVC= 37.58 (3) INV OUT 4"PVC FM= 40.0±

(3) INV OUT 6"PVC FM= $44.8\pm$

CB# 5 RIM EL= 44.97 (1) INV IN 12"CMP= 41.57 (2) INV IN 12"CMP= 41.72 (3) INV OUT 18"CMP= 41.42

CB# 6 RIM EL= 45.86 (1) INV IN 18"CMP= 40.66 (2) INV IN 8"PVC= 40.71 (3) INV OUT 18"CMP= 40.71

CB# 7 RIM EL= 52.00 (1) INV IN 12"CMP= 48.90 (2) INV IN 12"CMP= 48.72 (3) INV OUT 12"CMP= 48.82

CB# 8 RIM EL= 52.10 (1) INV OUT 12"CMP= 49.2±

CB# 9 RIM EL= 45.34 (1) INV IN 12"CMP= 42.27 (2) INV OUT 12"CMP= 42.03 NOTE: INVERTS RUSTED OUT ...

CB# 10 RIM EL= 42.90 (1) INV IN 12"CMP= 39.47 (2) INV OUT 12"CMP= 39.35

CB# 11 RIM EL= 42.21 (1) INV IN 15"CMP= 39.12 (2) INV IN 12"CMP= 38.89 (3) INV OUT 12"CMP= 38.84









<u>LEGEND:</u> . STONE WALL 133 COURT STREET . IRON ROD (603) 433–2335 BOUND as DESCRIBED ..FENCE ISSUED FOR: TAX SHEET - LOT NUMBER ROCKINGHAM COUNTY REGISTRY OF DEEDS ..EDGE OF PAVEMENT ISSUE DATE: .SLOPED FACED GRANITE CURB ..STONE RETAINING WALL ..WOOD RETAINING WALL .SIGN REVISIONS ...UTILITY POLE WITH ARM & LIGHT NO. DESCRIPTION .GUY ELECTRICAL CONDUIT 1 ENGINEERING DESIGN ..ELECTRICAL BOX ..ELECTRIC METER ..CABLE TV RISER .TELEPHONE RISER ..FIRE ALARM RISER DRAWN BY: .GAS SHUT OFF ..GAS VALVE APPROVED BY: _ ..WATER GATE VALVE DRAWING FILE: .WATER SHUT OFF VALVE ..HYDRANT SCALE: ..CATCH BASIN ..DRAIN MANHOLE .SEWER MANHOLE ..TREE LINE OWNER/APPLICANT: ..BRUSH LINE .. CONIFEROUS TREE ..DECIDUOUS TREE ..CONIFEROUS SHRUB .DECIDUOUS SHRUB . WATER LINE SEWER LINE DRAIN LINE . GAS LINE . FORCE MAIN ... UNDERGROUND ELECTRIC ... UNDERGROUND UTILITIES OVERHEAD WIRES OVERHEAD ELECTRIC . UNDERGROUND COMMUNICATIONS . BOILER WATER LINES .. CEMENT CONCRETE . CRUSHED STONE . RETAINING WALL ..SPOT GRADE PROJECT: <u>TITLE:</u> 80 FEET SHEET NUMBER: 20 METERS EC-3

SURVEYOR: James Verra and Associates, Inc. LAND SURVEYORS 101 SHATTUCK WAY - SUITE 8 NEWINGTON, N.H. 03801- 7876 603-436-3557 JOB NO: 23678 PLAN NO: 23678-2 <u>ENGINEER:</u> UC ENGINEERING, INC. PORTSMOUTH, NH 03801 www.ALTUS-ENG.com ENGINEERING DESIGN MARCH 15, 2019 DATE BY JV 3/15/19 2 ADD MISSING DRAIN LINE JV 3/25/19 JCS JV 23678-2.DWG $22" \times 34" - 1" = 20'$ $11" \times 17" - 1" = 40'$ ARBOR VIEW & THE PINES, LLC "ARBOR VIEW APARTMENTS" fka "BEECHSTONE APARTMENTS" PORTSMOUTH, N.H. ASSESSOR'S PARCEL 287-1 c/o FOREST PROPERTIES MANAGEMENT, INC. 625 MOUNT AUBURN ST SUITE 210 CAMBRIDGE, MA 02138 RCRD BK. 5934, PG. 837 **ARBOR VIEW APARTMENTS** RESIDENTIAL DEVELOPMENT PROJECT JOAN AVENUE & LANG ROAD PORTSMOUTH, N.H. ASSESSOR'S PARCEL 287-1 LIMITED EXISTING CONDITIONS PLAN

		IKAUIN
 CONTRACTOR SHALL SAFELY SECURE THE SITE WITH SECURITY FENCING. FENCING SHALL BE LOCKED DUR NON-WORK HOURS. 	ING 1.	PRIOR TO UTILITIES
2. CITY DEMOLITION PERMIT REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES. CONTRACTOR IS NOTIFIED PERMIT PROCESS MAY REQUIRE A 30-DAY LEAD TIME.	THAT THIS 2.	ALL BENC CONSTRU
3. CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES SCHEDULED TO REMAIN.	3.	PRIOR TO
4. THIS DEMOLITION PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR THE DEMOLITION OF EXIST FEATURES. UNLESS OTHERWISE NOTED TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE I ALL PAVEMENT, CONCRETE, CURBING, SIGNS, POLES, UTILITIES, FENCES, VEGETATION AND OTHER EXISTIN FEATURES AS NECESSARY TO FULLY CONSTRUCT THE PROJECT.	TING SITE REMOVAL OF NG 4	GEOTECH RECOMM DEWATER
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY NOTIFICATION OF ALL PARTIES, CORPORATION COMPANIES, INDIVIDUALS AND STATE AND LOCAL AUTHORITIES OWNING AND/OR HAVING JURISDICTION UTILITIES RUNNING TO, THROUGH OR ACROSS AREAS TO BE DISTURBED BY DEMOLITION AND/OR CONSTI ACTIVITIES WHETHER OR NOT SAID UTILITIES ARE SUBJECT TO DEMOLITION, RELOCATION, MODIFICATION CONSTRUCTION.	NS, I OVER ANY 5. RUCTION I AND/OR	PROTECTI SUBGRAD CONSTRU PRECIPITA
6. ALL UTILITY DISCONNECTIONS/DEMOLITIONS/RELOCATIONS TO BE COORDINATED BETWEEN THE CONTRA APPROPRIATE UTILITY COMPANIES AND THE PORTSMOUTH DEPARTMENT OF PUBLIC WORKS. UNLESS OT SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED EXCAVATION, TRENCHING AND B.	ACTOR, ALL THERWISE ACKFILLING.	STORMW MAINTAII
7. ALL STRUCTURES, CURBING, CONCRETE, PAVEMENT AND SUBBASE MATERIALS SHALL BE REMOVED FROM LANDSCAPE AREAS AND REPLACED WITH LOAM MATERIALS SUITABLE FOR LANDSCAPE AND/OR STORMW MANAGEMENT PURPOSES AND MEETING THE PROJECT SPECIFICATIONS.	1 PROPOSED ATER	STRUCTU SUSCEPTI COMMEN
8. WHERE SPECIFIED TO REMAIN, MANHOLE RIMS, CATCH BASIN GRATES, VALVE COVERS, HANDHOLES, MC WELLS, ETC. SHALL BE ADJUSTED TO FINISH GRADE.	INITORING 6.	IF SUITAB
9. NO BURNING SHALL BE PERMITTED PER LOCAL REGULATIONS.		PREVENTS
10. HAZARDOUS MATERIALS ENCOUNTERED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL B STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.	E ABATED IN 7.	ALLOWEE
11. SEE EROSION CONTROL PLANS FOR EROSION CONTROL REQUIREMENTS TO BE IN PLACE PRIOR TO START DEMOLITION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO; SILT FENCING, STABILIZED CONSTRUCTION S	OF ITE EXITS, 8	ALL CATC
AND STORM DRAIN INLET PROTECTION. 12. ALL DEMOLISHED MATERIALS OR MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPER	TY OF THE	ACCEPTEI
CONTRACTOR UNLESS SPECIFIED. 13. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BE LEGALLY DISPOSED IN ACCORDANCE WITH ALL LO	9. DCAL, STATE,	ALL CATC 4-FOOT D
& FEDERAL REGULATIONS AND CODES.	10). ALL SPOT
14. LEDGE REMOVAL MAY BE REQUIRED ON THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE CITY WIT REMOVAL PLAN. IF BLASTING IS TO BE PERFORMED, ALL STATE AND LOCAL REQUIREMENTS SHALL BE CO WITH. NO BLASTING IS ALLOWED WITHOUT A BLAST SURVEY BEING COMPLETED PRIOR TO.	H A LEDGE 1: DMPLIED 1:	LUNLESS O NEAREST
16. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DISCONNECTIONS/INSTALLATIONS WITH EVERSOURC	E. 11	UNDERDF
CONTACT NICK KOSKO @ 603-332-4227, EXT. 5555334		SEDIMEN
17. CONTRACTOR SHALL COORDINATE ALL NATURAL GAS DISCONNECTIONS/INSTALLATIONS WITH UNITIL		TO THE R
CORPORATION. CONTACT DAVID BEAULIEU @ 603-294-5144		
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- 13. THE CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY AND ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF BOTH THE ARCHITECT AND CIVIL ENGINEER FOR RESOLUTION.
- 14. ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
- 15. THE SITE PLAN PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- 17. SITEWORK CONTRACTOR SHALL PREPARE A LICENSED LAND SURVEYOR (LLS) STAMPED AS-BUILT SITE PLAN & PROVIDE A DIGITAL (CAD FORMAT) COPY FOR THE CITY'S G.I.S. DATA BASE.
- 18. THE PROPOSED LIGHTING SHALL BE DARK SKY FRIENDLY.

NG AND DRAINAGE NOTES

TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING LES SCHEDULED TO REMAIN.

NCHMARKS AND TOPOGRAPHY SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING RUCTION

TO CONSTRUCTION, THE CONTRACTOR SHALL READ AND FAMILIARIZE THEMSELVES WITH THE PROJECT CHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL THE IMENDATIONS IN THE GEOTECHNICAL REPORT.

TERING ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH EPA AND NHDES REGULATIONS AND LINES.

CTION OF SUBGRADE: THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STABLE, DEWATERED RADES FOR FOUNDATIONS, PAVEMENT AREAS, UTILITY TRENCHES AND OTHER AREAS DURING RUCTION. SUBGRADE DISTURBANCE MAY BE INFLUENCED BY EXCAVATION METHODS, MOISTURE, PITATION, GROUNDWATER CONTROL, AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL TAKE UTIONS TO PREVENT SUBGRADE DISTURBANCE. SUCH PRECAUTIONS MAY INCLUDE DIVERTING WATER RUNOFF AWAY FROM CONSTRUCTION AREAS, REDUCING TRAFFIC IN SENSITIVE AREAS, AND FAINING AN EFFECTIVE DEWATERING PROGRAM. SOILS EXHIBITING HEAVING OR INSTABILITY SHALL BE EXCAVATED TO MORE COMPETENT BEARING SOIL AND BEARING SOIL AND REPLACED WITH FREE DRAINING TURAL FILL IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER, EXPOSED SUBGRADES AREA PTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN SOIL CRUST AT THE IENCEMENT OF EACH DAY'S OPERATIONS DEGREE OF INSULATION AGAINST FREEZING.

ABLE, EXCAVATED MATERIALS SHALL BE PLACED AS FILL WITHIN UPLAND AREAS ONLY AND SHALL NOT BE D WITHIN WETLANDS. PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT NTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND VED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION.

ORM DRAIN PIPE SHALL BE ADS N-12 OR EQUAL AND APPROVED BY THE ENGINEER.

TCH BASIN, GATE VALVE COVERS, AND MANHOLE RIMS SHALL BE SET FLUSH WITH OR NO LESS THAN 0.1' V FINISHED GRADE. ANY RIM OR VALVE COVER ABOVE SURROUNDING FINISHED GRADE WILL NOT BE TED.

TCH BASINS SHALL BE PRECAST, LOCATED IN PAVEMENT AREAS, H-20 LOADING AND BE EQUIPPED WITH T DEEP MIN SEDIMENTATION SUMPS AND GREASE HOODS. (SEE DETAILS)

OT GRADES ARE AT THE FINISH GRADE AND BOTTOM OF CURB WHERE APPLICABLE.

S OTHERWISE SPECIFIED, RETAINING WALL AND BUILDING PERIMETER DRAINS SHALL BE DIRECTED TO THE ST DRAINAGE STRUCTURE. IF DEEMED APPROPRIATE, CONTRACTOR SHALL PROVIDE ADDITIONAL RDRAINS AT THE DIRECTION OF THE ENGINEER.

ACTOR SHALL PROTECT ALL RAINGARDENS FROM CONSTRUCTION STORMWATER RUNOFF. TEMPORARY ENT BASINS SHALL BE CONSTRUCTED DURING CONSTRUCTION. STORMWATER SHALL NOT BE DIRECTED E RAINGARDENS UNTIL THE WATERSHED ARE HAS BEEN STABILIZED.

NOTES

WATER MAIN INSTALLATIONS AND SERVICE CONNECTIONS SHALL CONFORM TO PORTSMOUTH WATER ARTMENT STANDARDS. WATER MAIN SHALL BE WRAPPED WITH A WATER TIGHT POLYETHYLENE WRAPPING. IOINTS SHALL HAVE THREE (3) WEDGES PER JOINT.

SEWER INSTALLATIONS AND SERVICE CONNECTIONS SHALL CONFORM TO PORTSMOUTH WATER AND SEWER ARTMENT STANDARDS. CONTRACTOR SHALL CONTACT PORTSMOUTH DPW FOR TESTING OF SEWER LINES. IOT BEGIN CONSTRUCTION UNTIL ALL STATE, LOCAL, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND EIVED. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING OF ALL BONDS AND PAYMENT OF ALL TAP, TIE-IN AND NECTION FEES.

ALARM PANEL SHALL BE MONITORED THROUGH A THIRD-PARTY SECURITY COMPANY. CONTRACTOR SHALL RDINATE ALL PANEL LOCATIONS AND INTERCONNECTIONS WITH FIRE DEPARTMENT.

APPLICANT SHALL HAVE A SITE SURVEY CONDUCTED BY A RADIO COMMUNICATIONS CARRIER APPROVED BY CITY'S COMMUNICATION DIVISION. THE RADIO COMMUNICATIONS CARRIER MUST BE FAMILIAR AND VERSANT WITH THE POLICE AND RADIO CONFIGURATION. IF THE SITE SURVEY INDICATES IT IS NECESSARY TO ALL A SIGNAL REPEATER EITHER ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE THE

CONSIBILITY OF THE PROPERTY OWNER. THE APPLICANT SHALL BE REQUIRED TO PAY FOR THE SITE SURVEY ETHER OR NOT THE SURVEY INDICATES A REPEATER IS NECESSARY. THE OWNER SHALL COORDINATE WITH THE ERVISOR OF RADIO COMMUNICATIONS FOR THE CITY. THE SURVEY SHALL BE COMPLETED AND THE REPEATER, ETERMINED IT IS REQUIRED, SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. ITRENCHING, PIPE LAYING AND BACKFILLING SHALL CONFORM TO FEDERAL OSHA AND CITY REGULATIONS. WORK CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL DRAWINGS.

ARCHITECTURAL/MECHANICAL DRAWINGS FOR EXACT LOCATIONS & ELEVATIONS OF UTILITY CONNECTIONS UILDINGS. COORDINATE ALL WORK WITHIN FIVE (5) FEET OF BUILDINGS WITH BUILDING CONTRACTOR AND HITECTURAL/MECHANICAL DRAWINGS. ALL CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENTION OF THE ENGINEER IMMEDIATELY AND PRIOR TO COMMENCING RELATED WORK.

L UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY IPANIES AND THE ARCHITECT.

TRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH FAIRPOINT IMUNICATIONS.

TRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH COMCAST.

TRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE. ALL ELECTRIC CONDUIT ALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL, 48-HOUR MINIMUM NOTICE REQUIRED.

 TRANSFORMER SHALL BE PAD MOUNTED. COORDINATE WITH ARCHITECT & EVERSOURCE.
 DETECTABLE WARNING TAPE SHALL BE PLACED OVER THE ENTIRE LENGTH OF ALL BURIED UTILITIES, COLORS PER THE RESPECTIVE UTILITY PROVIDERS.

16. CONTRACTOR SHALL CONTACT CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS AT 603-427-1530 TO COORDINATE INSPECTION OF SEWER WORK.

17. THE TESTING OF THE MUNICIPAL SEWER INFRASTRUCTURE IMPROVEMENTS SHALL BE UNDER THE SUPERVISION OF THE PORTSMOUTH DEPARTMENT OF PUBLIC WORKS (DPW).

GENERAL NOTES

- 1. THE INTENT OF THIS PLAN SET IS TO PROVIDE THE NECESSARY INFORMATION FO THESE PLANS PROVIDE DETAILED INFORMATION FOR THE SITE LAYOUT, GRADING THE PROJECT INTENDS TO IMPLEMENT TWO NEW 3-STORY MULTI-FAMILY BUILD
- DO NOT BEGIN CONSTRUCTION UNTIL ALL STATE, LOCAL AND FEDERAL PERMITS F CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LOCAL, STATE AND NATURAL RESOURCES AND THEIR BUFFERS.
- 3. CONTRACTOR SHALL CALL DIG SAFE AT 1 (800) DIG-SAFE AT LEAST SEVENTY-TWO
- 4. CONTRACTOR SHALL NOTIFY CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WC
- 5. CONTRACTOR SHALL INSTALL AND MAINTAIN A TEMPORARY SECURITY FENCE AR
- 6. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SEDIMENT AND EROSI FROM LEAVING THE SITE. CONTROLS SHALL BE INSPECTED ON A REGULAR BASIS THE CONTROLS SHALL BE ADDRESSED IMMEDIATELY AND BROUGHT TO THE ATTE WORK AREA, WITH THE POTENTIAL TO RECEIVE RUNOFF FROM EXPOSED CONSTR
- 7. CONTRACTOR SHALL PREVENT TRACKING OF DIRT ONTO ANY PUBLIC OR PRIVATE ON THE OPEN STREETS, CONTRACTOR WILL BE REQUIRED TO SWEEP THE ROADW

ZONING

ZONING DISTRICT GA/MH	(
<u>LOT 287–01</u>	~
LOT AREA (<u>81</u> 5. (21
LOT AREA PER DWELLING (DENSITY)	10
NUMBER OF UNITS	15 (A
MINIMUM YARDS DIMENSIONS FRONT SIDE/REAR	30 23
MAXIMUM STRUCTURE DIMENSIONS HEIGHT COVERAGE LENGTH (MULTI-FAMILY DWELLING)	35 20 16
OPEN SPACE	50
PARKING CALCULATIONS	
PER ZONING REGULATION 10.1110 FOR	MU 1
VISITOR PARKING 1 STAL	L 1

MINIMUM STALLS ALLO MAXIMUM ALLOWABLE STALL

* SEE SITE NOTE 1

PPROVED BY T	HE PORTSMOUTH	I PLANNING BOARD	
CHAIRMAN		DATE	ALIUS ENGINEERING, INC.
OR THE REVIEW, PERMIT IG, UTILITIES, STORMW/ DINGS WITH AN INTERIO	ITING AND REDEVELOPME ATER MANAGEMENT, AND DR BASEMENT LEVEL PARK	ENT OF 2075 LAFAYETTE ROAD. D LANDSCAPE IMPROVEMENTS. KING FOR 36-VEHICLES EACH.	133 COURT STREET PORTSMOUTH, NH 03801 (603) 433–2335 www.ALTUS–ENG.com
S HAVE BEEN APPLIED FO D FEDERAL WETLAND PE	OR AND RECEIVED. THE LA RMITTING REQUIREMENT	ANDOWNER AND THE S INCLUDING PROTECTION OF	
O (72) HOURS PRIOR TO	COMMENCING CONSTRU	ICTION.	
ORKS PRIOR TO COMM	ENCING CONSTRUCTION A	ACTIVITIES.	
ROUND THE PERIMETER	R OF THE WORK AREA THR	OUGHOUT CONSTRUCTION.	
SION CONTROL ITEMS T S AND AFTER ALL RAIN E TENTION OF THE OWNE IRUCTION AREAS, SHALI	O PREVENT SEDIMENT FR(EVENTS OF 0.25 INCHES OF R. ALL STORMS DRAINS W L RECEIVE STORM DRAIN II	OM CONSTRUCTION ACTIVITIES R GREATER. ANY DEFICIENCIES IN ITHIN OR ADJACENT TO THE NLET PROTECTION.	ISSUED FOR:
TE ROADWAYS. IF TRAC	KING OF DIRT FROM CONS L EXPENSE TO THE OWNEF	STRUCTION VEHICLES IS PRESENT R.	TAC WORK SESSION
			APRIL 2, 2019
			REVISIONS NO. DESCRIPTION BY DATE 0 INITIAL SUBMISSION EDW 04/02/19
SUMMAR (maximum lot	<u>Y</u> coverage =	50%)	
<u>REQUIRED</u> 5.0 Acres 17.800 SF)	<u>EXISTING</u> 35.53 Acres (1.547.70	<u>PROPOSED</u> 35.53 Acres 0 SF)	DRAWN BY:
	10.077.05		APPROVED BY:
0,000 SF	10,6/3 SF	8,321±	
54 ALLOWED)	145	186*	$22^{"} \times 34^{"} - \text{N.T.S.}$
30 FT	71 FT	71 FT	11 x 17 - N.1.3.
25 FT	25 FT	35 FT	OWNER OF RECORD:
5 FT 20% 60 FT	N/A 4.1% 285 FT±	33.5± FT 5.0% 225 FT±*	ARBOR VIEW & THE PINES, LLC C/O FOREST PROPERTIES MGMT. 625 MOUNT AUBURN STREET CAMBRIDGE, MA 02138
50%	87%±	85%±	
			APPLICANT:
ULTI-FAMILY E .3 STALLS PE PER 5 UNIT OWED ALLOWE	BUILDINGS R UNIT = 24 = D = 2	45 STALLS 38 STALLS 83 STALLS	FOREST PROPERTIES MGMT. INC. 625 MOUNT AUBURN STREET CAMBRIDGE, MA 02138
LS (120% MIN	\overline{n} = 3	340 STALLS	PROJECT:
PROV	/IDED = 34	O STALLS	ARBOR VIEW
			APARTMENTS
			RESIDENTIAL
			DEVELOPMENT
			145 LANG ROAD PORTSMOUTH, NH
			<u>TITLE:</u>
			GENERAL NOTES
		1787	GN-1
		4	











SEDIMENT AND ERUSION CONTROL NUTES			1 1 A 14 1-
PROJECT NAME AND LOCATION	2.	Guidelines for Winter Mu	Ich Application — Rate per 1.000
Owner: ARBOR VIEW & THE PINES, LLC C/O FOREST PROPERTIES MANAGEMENT, INC. ARBOR VIEW & THE PINES, LLC LATITUDE: 043° 01' 31" N LONGITUDE: 070° 47' 10" W		Hay or Straw	70 to 90 lbs. f with plantings.
CAMBRIDGE, MA 02138	Bark N	Wood Chips or Aulch	460 to 920 lbs
The project consists of the expansion of a previously disturbed and partially developed area within the "Arbor View" complex consisting of two 3-story residential buildings with 42 residential units total, reconfiguration of parking and access, grading, storm drainage improvements, underground utilities	Blanke	Jute and Fibrous Matting (Erosion t	As per manufa Specifications
DISTURBED AREA		Crushed Stone 1/4" to 1-1/2" dia.	Spread more tl 1/2" thick
The total area to be disturbed on the parcel and for the buildings, driveway, parking area, drainage, and utility construction is approximately 80,000 SF± (1.85 acres±). The combined disturbed area exceeds 43,560 SF (1 acre), thus a SWPPP will be required for compliance with the USEPA—NPDES Construction General Permit.		Erosion Control Mix	2" thick (min)
<u>NPDES CONSTRUCTION GENERAL PERMIT</u> Contractor shall prepare a Stormwater Pollution Prevention Plan (SWPPP) is accordance with federal			c
storm water permit requirements (see "Developing Your Stormwater Pollution Prevention Plan", EPA 833-R-060-4). The SWPPP must be prepared in a format acceptable to the Owner and provided to the City at least fourteen (14) days prior to initiating construction. Contractor is responsible for all cost associated with preparation and implementation of SWPPP including any temporary erosion control measures (whether indicated or not on these drawings) as required for the	3.	Maintenance — All mulch	r nes must be inspect
contractor's sequence of activities.		erosion. If less than 9 applied.	0% of the soil surfo
INE CONTRACTOR and Owner shall each file a Notice of Intent (NOI) with the U.S.E.P.A. under the NPDES Construction General Permit. (U.S.E.P.A., 1200 Pennsylvania Avenue NW, Washington, DC 20460) All work shall be in accordance with NPDES General Permit: NHC07000 including NOI	С.	TEMPORARY GRASS COVE	R
requirements, effluent limitations, standards and management for construction. The Contractor shall be responsible for obtaining a USEPA Construction Dewatering Permit, if required.	1.	Seedbed Preparation — Apply fertilizer at the ro percent calcium plus mo	ite of 600 pounds agnesium oxide) at
 Prepare SWPPP and file NPDES Notice of Intent, prior to any construction activities (Required). Hold a pre-construction meeting with City & stake holders. Install temporary control measures including silt forecast and attabilities descention. 	2.	Seeding — a. Utilize annual	rye grass at a rat
 Install temporary erosion control measures, including silt fences and stabilized construction entrance. Protect specified trees (see plans). Terminate existing utilities. Demolish portion of existing building. See Demolition Plan. Clear and Grub vegetated areas per plan; Strip and stockpile loam. Stockpiles shall be temporarily stabilized with hay bales, mulch and surrounded by a hay bale or silt fence barrier until material is removed and final 		b. Where the so (2) inches be c. Apply seed un fertilizer). Hy	il has been compac fore applying fertiliz niformly by hand, cy ydroseedings, which
 grading is complete. Remove debris. 7. Remove ledge. 8. Construct swales and utility infrastructure. Rough grade lot to prepare for site development. Construct temporary sediment control basins. Stabilize swales prior to directing flow to them. 9. Construct building foundations. Construct bituminous concrete pavement & driveway access. 	3.	must be incre Maintenance — Temporary seedings sha	eased 10% when hy
 loam and seed disturbed areas. Construct raingardens & landscaping after site is stabilized. When all construction activity is complete and site is stabilized, remove all hay bales, stone when all construction activity is complete and terrestructures and codiment that has been terrested by 	_	other temporary measur	es used in the inte
check dams (if applicable), slit fences and temporary structures and sediment that has been trapped by these devices. 13. File a Notice of Termination (N.O.T.) with U.S.E.P.A. (Required)	D. 1.	FILTERS Tubular Sediment Barrier	
NAME OF RECEIVING WATER The majority of the site connects to the stormwater collection system and eventually discharging to Berry's Brook.		a. See detail. b. Install per mo	anufacturer's require
TEMPORARY EROSION & SEDIMENT CONTROL AND STABILIZATION PRACTICES All work shall be in accordance with state and local permits. Work shall conform to the practices described in	2.	Silt Fence (if used) a. Synthetic filte and shall be requirements:	r fabric shall be a certified by the ma
the "New Hampshire Stormwater Manual, Volumes $1 - 3$ ", issued December 2008, as amended. As indicated in the sequence of Major Activities, the silt fences shall be installed prior to commencing any clearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Once construction activity ceases permanently in an area, silt fences and any earth/dikes will be removed once permanent		<u>Physical Property</u> Filtering Efficiency	<u> </u>
measures are established. During construction, runoff will be diverted around the site with stabilized channels where possible. Sheet runoff from the site shall be filtered through hay bale barriers, stone check dams, and silt fences. All storm drain inlets shall be provided with hay bale filters or stone check dams. Stone rin rap shall be provided at the outlets		Tensile Strength 20% Maximum El	at ongation*
of drain pipes and culverts where shown on the drawings.		Flow Rate	N
to them.		 Requirements r Synthetic filter for 	educed by 50 perce Ibric shall contain u
control plan. All areas shall be inspected and maintained until vegetative cover is established. These control measures are essential to erosion prevention and also reduce costly rework of graded and shaped areas.		minimum of six (6) mo 0 degrees F to b. Posts shall be	nths of expected us 120° F. e spaced a maximu
and sediment control measures shall be maintained until permanent vegetation is established.		recommended	by the manufactur
INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES		the line of p	osts and upslope fr
A. GENERAL		securely to the long, tie wires ground surfac	ne upslope side of s s or hog rings. Th ses.
These are general inspection and maintenance practices that shall be used to implement the plan: 1. The smallest practical portion of the site shall be denuded at one time, but in no case shall it exceed 5		e. The "standarc of the fabric	l strength" filter fab shall be extended i
acres at one time. 2. All control measures shall be inspected at least once each week and following any storm event of 0.5 inches or greater. 3. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within		f. When extra s may be elimin	the original ground trength filter fabric nated. In such a c
24 hours. 4. Built—up sediment shall be removed from silt fence or other barriers when it has reached one—third the height of the fence or bale, or when "bulges" occur.		with all other g. The trench sl	nall be backfilled an
 All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the 		h. Silt fences sh upslope areas	nall be removed whe has been permane
 Plans. 8. All roadways and parking lots shall be stabilized within 72 hours of achieving finished grade. 9. All cut and fill slopes shall be seeded/loamed within 72 hours of achieving finished grade. 10. An area shall be considered stable if one of the following has occurred: 	3. area.	Sequence of Installation Sediment barriers shall	– be installed prior to
a. Base coarse gravels have been installed in areas to be paved; b. A minimum of 85% vegetated growth as been established; c. A minimum of 3 inches of non—erosive material such as stone of riprap has been installed:	4.	Maintenance — a. Silt fence barriers sł	nall be inspected im
 or – d. Erosion control blankets have been properly installed. 11. The length of time of exposure of area disturbed during construction shall not exceed 45 days. 		rainfall. They shall Any required repairs the edges, or impou temporary stone che	be repaired if there shall be made imm nding of large volur ck dam.
B. MULCHING Mulch shall be used on highly erodible soils, on critically eroding areas, on areas where conservation of moisture will facilitate plant establishment, and where shown on the plans.		b. Should the fabric on the expected usable	a silt fence or filt life and the barrier
1. Timing — In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this:		c. Sediment dep height of the	osits must be remo barrier.
a. Apply mulch prior to any storm event. This is applicable when working within 100 feet of wetlands. It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Concord, to have adequate warning of significant storms. b. Required Mulching within a specified time period. The time period can range from 21 to 28		d. Any sediment required shall	deposits remaining be removed. The
days of inactivity on a area, the length of time varying with site conditions. Professional judgment shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.		e. Additional sto lined swales,	ne may have to be etc., periodically to
INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR TEMPORARY	Ε.	PERMANENT SEEDING -	
ERUSION AND SEDIMENT CONTROL MEASURES (CON'T)	1.	Bedding — stones larger	than 1 ¹ / ₂ ", trash,

0 <u>00 s.f.</u> s. from mold. M s.	<u>Use and Comments</u> Must be dry and free ay be used
lbs. and st	Used mostly with trees Irub plantings.
ifacturer s areas.	Used in slope areas, water courses and other Control
than	Effective in controlling wind and water erosion.
ו)	 * The organic matter content is between 80 and 100%, dry weight basis. * Particle size by weight is 100% passing a 6"screen and a minimum of 70 %, maximum of 85%, passing a 0.75" screen. * The organic portion needs to be fibrous
and elongated.	
	* Large portions of silts, clays or fine sands
are not accepta	* Soluble salts content is less than 4.0
mmhos/cm.	

* The pH should fall between 5.0 and 8.0.

cted periodically, in particular after rainstorms, to check for rill face is covered by mulch, additional mulch shall be immediately

per acre of 10-10-10. Apply limestone (equivalent to 50 a rate of three (3) tons per acre.

te of 40 lbs/acre.

cted by construction operations, loosen soil to a depth of two zer, lime and seed. clone seeder, or hydroseeder (slurry including seed and include mulch, may be left on soil surface. Seeding rates

vdroseeding.

spected. At a minimum, 95% of the soil surface should be erosion or sedimentation is apparent, repairs shall be made and erim (mulch, filter barriers, check dams, etc.).

ments.

pervious sheet of propylene, nylon, polyester or ethylene yarn unufacturer or supplier as conforming to the following

<u>Test</u>	<u>Requirements</u>
VTM-51	75% minimum
VTM-52	Extra Strength 50 lb/lin in (min) Standard Strength 30 lb/lin in (min)

0.3 gal/sf/min (min) VTM-51

ent after six (6) months of installation

ultraviolet ray inhibitors and stabilizer to provide a sable construction life at a temperature range of

um of ten (10) feet apart at the barrier location or as arer and driven securely into the ground (minimum of 16 inches).

roximately six (6) inches wide and eight (8) inches deep along om the barrier.

bric is used, a wire mesh support fence shall be fastened the posts using heavy duty wire staples at least one (1) inch he wire shall extend no more than 36 inches above the original

bric shall be stapled or wired to the fence, and eight (8) inches into the trench. The fabric shall not extend more than 36 surface. Filter fabric shall not be stapled to existing trees.

and closer post spacing are used, the wire mesh support fence case, the filter fabric is stapled or wired directly to the posts (g) applying.

and the soil compacted over the filter fabric.

en they have served their useful purpose but not before the ently stabilized.

any soil disturbance of the contributing upslope drainage

mediately after each rainfall and at least daily during prolonged are any signs of erosion or sedimentation below them. nediately. If there are signs of undercutting at the center or mes of water, the sediment barriers shall be replaced with a

Iter barrier decompose or become ineffective prior to the end of still is necessary, the fabric shall be replaced promptly.

oved when deposits reach approximately one-third (1/3) the

in place after the silt fence or other barrier is no longer area shall be prepared and seeded.

added to the construction entrance, rock barrier and riprap maintain proper function of the erosion control structure.

roots, and other debris that will interfere with seeding and

future maintenance of the area should be removed. Where feasible, the soil should be tilled to a depth of 5" to prepare a seedbed and mix fertilizer into the soil.

2. Fertilizer - lime and fertilizer should be applied evenly over the area prior to or at the time of seeding and incorporated into the soil. Kinds 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 applied:

> Agricultural Limestone @ 100 lbs. per 1,000 s.f. 10-20-20 fertilizer @ 12 lbs. per 1,000 s.f.

3. Seed Mixture (See Landscape Drawings for additional information):

3.1. Lawn seed mix shall be a fresh, clean new seed crop. The Contractor shall furnish a dealer's guaranteed statement of the composition of the mixture and the percentage of purity and germination of each variety.

- 3.2. Seed mixture shall consist of
 - a. 1/3 Kentucky blue, b. 1/3 perennial rye, and
 - c. 1/3 fine fescue.
- 3.1. Turf type tall fescue is unacceptable.
- 4. Sodding sodding is done where it is desirable to rapidly establish cover on a disturbed area. Sodding an area may be substituted for permanent seeding procedures anywhere on site. Bed preparation, fertilizing, and placement of sod shall be performed according to the S.C.S. Handbook. Sodding is recommended for steep sloped areas, areas immediately adjacent to sensitive water courses, easily erodible soils (fine sand/silt), etc.

WINTER CONSTRUCTION NOTES

- 1. All proposed vegetated areas which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and elsewhere seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting. 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:
- 2. All ditches or swales which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized temporarily with stone or erosion control blankets appropriate for the design flow conditions; and
- 3. After November 15th, incomplete road or parking surfaces where work has stopped for the winter season shall be protected with a minimum of 3 inches of crushed gravel per NHDOT Item 304.3.

WINTER CONSTRUCTION NOTES

- 1. All proposed vegetated areas which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and elsewhere seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting. 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;
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				1
	Spring	Fall or Yearly	After Major Storm	Every 2-5 Years
Vegetated Areas				
Inspect all slopes and embankments	х		х	
Replant bare areas or areas with sparse growth	х		x	
Armor areas with rill erosion with an appropriate lining or divert the erosive flows to on-site areas able to withstand concentrated flows.	x		x	
Stormwater Channels			,	·
Inspect ditches, swales and other open stormwater channels	x	x	x	
Remove any obstructions and accumulated sediments or debris	x	x		
Control vegetated growth and woody vegetation		x		
Repair any erosion of the ditch lining		x		
Mow vegetated ditches		x		
Remove woody vegetation growing through riprap		х		
Repair any slumping side slopes		x		
Replace riprap where underlying filter fabric or underdrain gravel is exposed or where stones have been dislodged		x		
Culverts				
Remove accumulated sediments and debris at inlet, outlet and within the conduit	x	x	x	
Repair any erosion damage at the culvert's inlet and outlet	x	x	x	
Remove woody vegetation growing through riprap		x		
Roadways and Parking Surfaces			,	
Remove accumulated winter sand along roadways	х			
Sweep pavement to remove sediment	x			
Grade road shoulders and remove excess sand either manually or by a front-end loader	x			
Grade gravel roads and gravel shoulders	x			
Clean out sediment contained in water bars or open-top culverts	x			
Ensure that stormwater is not impeded by accumulations of material or false ditches in the roadway shoulder	x			
Runoff Infiltration Facilities				
Remove dead vegetation and any accumulated sediment (normally at the entrance to the garden) to allow for new growth	x			
Weed; add additional hardwood mulch to suppress weeds	x	x		
Mow turf three (3) times a growing season				
Aerate area with deep tines, if water ponds on the surface for more than 24 hours during the first year or for a length of 72 hours		x		
Vegetative Swale				
Mow grass swales monthly				
Inspect swale following significant rainfall event	x	x	х	
inspect swale following significant faintail event			-	-
Control vegetated growth and woody vegetation	х	x		

ALL FACILITIES SHOULD BE INSPECTED ON AN ANNUAL BASIS AT A MINIMUM. IN ADDITION, ALL FACILITIES SHOULD BE INSPECTED AFTER A SIGNIFICANT PRECIPITATION EVENT TO ENSURE THE FACILITY IS DRAINING APPROPRIATELY AND TO IDENTIFY ANY DAMAGE THAT OCCURRED AS A RESULT OF THE INCREASED RUNOFF. FOR THE PURPOSE OF THIS STORMWATER MANAGEMENT PROGRAM, A SIGNIFICANT RAINFALL EVENT IS CONSIDERED AN EVENT OF THREE (3) INCHES IN A 24-HOUR PERIOD OR 0.5 INCHES IN A ONE-HOUR PERIOD. IT IS ANTICIPATED THAT A SHORT, INTENSE EVENT IS LIKELY TO HAVE A HIGHER POTENTIAL OF EROSION FOR THIS SITE THAN A LONGER, HIGH VOLUME EVENT.

<u>toots (n</u>	Ning (Tora / Toris Vy A) Ing (Ty		হ্য	Æ
	2" -	- 3"	STO	DNE
		FLO	эw Х	ŧ
				A
				<u>SP</u>
		1.	L = A A	DIS ND
	2	2.	CHE 2" 1 OF I CEN THE	CK TO 3 DITC TER ED(
	MAINTE TEMPORARY AT LEAST D IMMEDIATELY DOWNSTREA PORTION SH SEEDED AN	GR/ GR/ DAILY Y. F M TO IOUL	ADE S DUF PARTI DE OF D BE	E STAE RING CUL

- BEEN COMPLETED.

STONE CHECK DAM









<u>NOTES</u>

- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

NOT TO SCALE

TYPICAL TRENCH PATCH

- PATCHES SHALL MEET NHDOT REQUIREMENTS.

PLASTIC FENCING AROUND TREE

EXCAVATED UTILITY TRENCH

EXISTING GRAVEL BEYOND

TRENCH SHALL BE LEFT

UNDISTURBED -----

LIMIT OF TRENCH

SAWCUT EDGE (TYP) -----

SAWCUT EDGE (TYP)

EXISTING GROUND -

CONSTRUCT BITUMINOUS

(SEE PAVEMENT SECTION) ·

CONCRETE PAVEMENT PATCH

EXCAVATED UTILITY TRENCH

<u>NOTES</u>

(SEE TRENCH SECTION) -

1. MACHINE CUT EXISTING PAVEMENT.

PERMANENT TRENCH REPAIRS.

EXCAVATION (TYP) -

(SEE TRENCH SECTION) -











MANHOLE NOTES:

- IT IS THE INTENTION OF THE NHDES THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY BY THE COMMISSION FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH OR WITHOUT REINFORCEMENT IN ANY APPROVED MANHOLE. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MAN-HOLE CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE, A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
- BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED.
- PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478.
- LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE OWN'S STANDARD SPECIFICATIONS.
- INVERTS AND SHELVES MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS SHALL BE LAID OUT IN CURVES, OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
- FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) LETTER "S" FOR SEWERS OR "D" FOR DRAINS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVFR.
- BEDDING SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33.
- 100% PASSING 1 INCH SCREEN 0-10% PASSING #4 SIEVE 90-100% PASSING 3/4 INCH SCREEN 0-5% PASSING #8 SIEVE 20-55% PASSING 3/8 INCH SCREEN

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2" TO 1/2" SHALL BE USED.

CONCRETE FOR DROP SUPPORT SHALL CONFORM TO THE REQUIREMENT FOR CLASS A (3000 LBS.) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS: CEMENT 6.0 BAGS PER CUBIC YARD

WATER 5.75 GALLONS PER BAG CEMENT MAXIMUM SIZE OF AGGREGATE 1 INCH

FLEXIBLE JOINT A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:

PVC PIPE - 60" RCP & CI PIPE - ALL SIZES - 48" AC & VC PIPE - UP THROUGH 12" DIAMETER - 18" AC & VC PIPE - LARGER THAN 12" DIAMETER - 36"

SHALLOW MANHOLE IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB 10.



BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

SAND BLANKET		CRUSHED STONE BEDDING *		
<u>SIEVE SIZE</u>	<u>% FINER BY WEIGHT</u>	<u>SIEVE SIZE</u>	<u>% PASSING BY</u>	
1/2" 200	90 — 100 0 — 15	1" 3/4" 3/8"	100 90 - 100 20 - 55	
		# 4 # 8	0 — 10 0 — 5	

<u>% PASSING BY WEIGHT</u>

90 - 100

NOT TO SCALE

— MAXIMUM DISTANCE

INVERT AND SHELF TO BE

- MANHOLE SHELF, INVERT, AND UNDERLAYMENT SHALL BE BRICK

MASONRY TO MANHOLE BASE.

PLACED AFTER LEAKAGE TEST

SEWER MANHOLE DETAILS

(SEE NOTE 9)

PIPE

MANHOLE SHELF, INVERT, AND

MASONRY TO MANHOLE BASE.

UNDERLAYMENT SHALL BE BRICK

* EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 703 OF NHDOT STANDARD SPECIFICATIONS

SEWER TRENCH SECTION



STANDARD TRENCH NOTES:

- 1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN OF THE DRAWING.
- 2. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33, STONE SIZE NO. 67. PASSING 1 INCH SCREEN 100% 90 - 100% PASSING 3/4 INCH SCREEN
 - 20 55% PASSING 3/8 INCH SCREEN 0–10% PASSING #4 SIEVE 0-5% PASSING #8 SIEVE WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED
- GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.
- 3. SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 90 100% PASSES 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. BLANKET MAY BE OMITTED FOR CAST-IRON, DUCTILE IRON, AND REINFORCED CONCRETE PIPE PROVIDED HOWEVER, THAT NO STONE LARGER THAN 2" IS IN CONTACT WITH THE PIPE.
- 4. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION; AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
- 5. BASE COURSE AND PAVEMENT SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES - DIVISIONS 300 AND 400 RESPECTIVELY.
- 6. SHEETING, IF REQUIRED: WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION 1 FOOT ABOVE THE TOP OF PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAT 1 FOOT ABOVE THE TOP OF THE PIPE.
- 7. 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 INCHES. FOR PIPES GREATER THAN 15 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- 8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 9. CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS STANDARD SPECIFICATION REQUIREMENTS FOR CLASS A (3000#) CONCRETE AS FOLLOWS: CEMENT: 6.0 BAGS PER CUBIC YARD WATER: 5.75 GALLONS PER BAG CEMENT MAXIMUM SIZE OF AGGREGATE: 1 INCH CONCRETE ENCASEMENT IS NOT ALLOWED FOR PVC PIPE.
- 10. CONCRETE FULL ENCASEMENT: IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MINIMUM). BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
- 11. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES DESIGN STANDARDS REQUIRE TEN FEET (10') SEPARATION BETWEEN WATER AND SEWER. REFER TO CITY'S STANDARD SPECIFICATIONS FOR METHODS OF PROTECTION IN AREAS THAT CANNOT MEET THESE REQUIREMENTS.

<u>1'-0"</u>

.8 0. 0. 8 0.

•• 0° <u>•</u>••

CLEANOUT DETAIL

INSIDE FACE

OF MANHOLE

FILL W/ MORTAR -

ပ္ ၀ ၀ ၀ ၀ ၀ ၀

XXXXXXX

STAINLESS STEEL STRAP

PIPE

LOCK-JOINT FLEXIBLE MANHOLE SLEEVE

(OR EQUAL)

NOT TO SCALE

RUBBER-LIKE FLEXIBLE SLEEVE

PROVIDE: -ZURN Z-1400 CLEAN OUTS IN

-HARDSCAPE

NON-TRAFFIC AREAS & SIDEWALKS

-ZURN Z-1400 HD CLEAN OUTS IN TRAFFIC AREAS WITH A "SERVICE STATION" TYPE MANHOLE, OPW #104 A12 - DOVER CORP./OPW DIV.

- CLEAN OUT PLUG, 3" BELOW PAVING

C.O. ON GRADING & UTILITY PLANS; SEWER CLEAN OUT CAPS SHALL BE

NOT TO SCALE

STAINLESS STEEL STRAP

KOR-N-SEAL JOINT SLEEVE

(OR EQUAL)

-ZURN Z-1449 CLEAN OUTS IN LANDSCAPED AREAS

(PHONE: 513-870-3100)

NOTE: CLEAN OUT LOCATIONS MARKED

LABELED "SEWER"

INSIDE FACE OF MANHOLE

FILL W/

MORTAR

INTERNAL CLAMP

ANODIZED ALUMINUM

NOTE: ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE

<u>DETAIL-A</u>

WRITTEN INSTRUCTIONS.

INSTALLED IN ACCORDANCE WITH MANUFACTURERS

6" x 6" TEE WYE

- 1. A MINIMUM HORIZONTAL DISTANC SEWER MAINS. A MINIMUM VERTIC

- 2. SEWER PIPE JOINTS SHALL BE LO

- 3. IF THE REQUIRED CONFIGURATION
- MEET THE NHDES REQUIREMENTS

,	APPROVED BY THE P	ORTSMOUTH PLANNING	BOARD	ENGINEER:	
				ALT	US >
_	CHAIRMAN	DA	TE	ENGINEE	RING, INC.
				133 COURT STREET (603) 433-2335	PORTSMOUTH, NH 03801 www.ALTUS-ENG.com
Q				ISSUED FOR:	
(TAC	WORK SESSION
	24" PREFERRED (18	" MINIMUM)		REVISIONS	APRIL 2, 2019
NOTES 1. A MINIMUM HORIZONTAL DISTANCE	OF 10 FEET SHALL BE MAINT	AINED BETWEEN WATER AND		NO. DESCRIPTION 0 INITIAL SUBMISSI	BY DATE ON EDW 04/02/19
SEWER MAINS. A MINIMUM VERTICA 2. SEWER PIPE JOINTS SHALL BE LOO	AL DISTANCE WITH WATER ABO	VE SEWER SHALL BE MAINTAINED. HORIZONTALLY FROM WATER MAIN	N.		
3. IF THE REQUIRED CONFIGURATION MEET THE NHDES REQUIREMENTS	CANNOT BE MET, THE SEWER FOR FORCE MAIN CONSTRUCTIO	MAIN SHALL BE CONSTRUCTED TO N.	0		
WATER MAIN / SEWE	-R CROSSING	NOT TO SCALE	-		
				DRAWN BY: APPROVED BY:	RLH EDW
				DRAWING FILE:	4787-DETAILS.DWG
				22" x 11" x	34" – N.T.S. 17" – N.T.S.
				OWNER OF RECORI	<u>):</u>
				ARBOR VIEW & C/O FOREST P 625 MOUNT AU CAMBRIDGE, MA	THE PINES, LLC ROPERTIES MGMT. JBURN STREET 02138
				FOREST PROPE	RTIES MGMT. INC.
·				CAMBRIDGE, M	A 02138
-				PROJECT: ARBO	R VIEW
				APAR ⁻	TMENTS
PIPE		APPROVED PREFORMED BITUMAS	STIC	DEVEL	OPMENT
		RAM-NEK KENT SEAL NO. 2 KZ THE AMOUNT OF SEALANT SHAL	LBE	145 LA	ANG ROAD
RUBBER-LIKE KOR-N-SEAL BOOT		THE JOINT CAVITY.	3% UF	PORTSM	OUTH, NH
L JOINT SLEEVE r equal) Note:	BITUMASTIC ALL GASKETS, SEALANTS, MC	RTAR, ETC. SHALL BE		<u> LE:</u>	
	INSTALLED IN ACCORDANCE V WRITTEN INSTRUCTIONS.	IIH MANUFACTURERS		DETAI	L SHEET
(APPROVED	DETAIL—B manhole section jointing m	ETHODS)		SHEET NUMBER:	_
			4787	D	- 5





TYPICAL PAVEMENT SAWCUT NOT TO SCALE





















NOT TO SCALE

BITUMINOUS CONCRETE SIDEWALK



3,000 PSI CONCRETE PAD

(SEE CROSS SECTION)

PITCH TO DRAIN

A. 14. 14 A.



CONTROL/TROWELED JOINT EXPANSION/CONSTRUCTION <u>PLAN</u> JOINT 30' O.C. (TYP) 3,000 PSI CONCRETE w//BROOM FINISH - CONTROL/TROWELED JOINT 1/4" CHAMFER OR 5' 0.C. (TYP) ROUNDED EDGES -- CURB PER PLAN FINISH PAVEMENT GRADE WHERE -SEE SITE PLAN-APPLICABLE <u>PLAN</u> SIDEWALK WIDTH VARIES '///// SEE PLANS CONCRETE HAUNCH (TYP ALL SIDES) <u>SECTION</u> NHDOT ITEM #304.3 CRUSHED GRAVEL <u>SECTION</u> COMPACTED NATIVE SUBGRADE **BICYCLE RACK PAD** NOT TO SCALE



6"-WIDE (MIN) THICKENED CONCRETE EDGE TO

FLUSH CURB LIP REVEAL AT RAMP END SHALL NOT EXCEED 1/4" WITH BEVEL

-ELIMINATE GRANITE CURB WHERE SIDEWALK IS FLUSH.

(SAME DAY AS POUR) -

WITH 1/2" RADIUS TOOLED EDGES





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ARBOR VIEW EXPANSION	DPERTIES MANAGEMENT	145 LANG ROAD	PORTSMOUTH, NH 03801					
	FOREST PRO							
McHENRY ARCHITECTURE 4 Market Street Portsmouth, New Hampshire 603.430.0274								
		DN	Date					
ARBOR VIEW EXPANSION Drawing Name: BUILDING RENDERING Project number: 18101								
Date: 04/01/2019 Drawn by: MB Checked by: MG A302 Scale:								