



City of Portsmouth, New Hampshire

Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. A pre-application conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. Waiver requests must be submitted in writing with appropriate justification.

Cate Street Development, LLC

Name of Owner/Applicant: c/o Jay Bisognano Date Submitted: 06-26-19

Phone Number: 987.490.5278 E-mail: jb@torprops.com

Site Address: 428 US Route 1 BYP Map: see below, pg. 7 Lot:

Zoning District: G1 Lot area: 13.3 Ac+/- sq. ft.

Application Requirements			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Fully executed and signed Application form. (2.5.2.3)		N/A
<input type="checkbox"/>	All application documents, plans, supporting documentation and other materials provided in digital Portable Document Format (PDF). (2.5.2.8)		N/A

Site Plan Review Application Required Information			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Statement that lists and describes "green" building components and systems. (2.5.3.1A)	Submitted with TAC documents 3.18.19	
<input type="checkbox"/>	Gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1B)	Breakdown MEMORANDUM_rev1.pdf submittes 3.18.19 CS-201 to 203	N/A
<input type="checkbox"/>	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1C)	Application, Narrative CN-001 site notes, CS-001 site notes Plan of Land, Topo Plans	N/A
<input type="checkbox"/>	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1D)	Application, Cover Sheet GI-001, GI-002	N/A

Site Plan Review Application Required Information

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1E)	Plan of Land sheet 3 of 3,	N/A
<input type="checkbox"/>	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1F)	Cover Sheets, GI-001, GI-002	N/A
<input type="checkbox"/>	List of reference plans. (2.5.3.1G)	Plan of Land sheet 3 of 3,	N/A
<input type="checkbox"/>	List of names and contact information of all public or private utilities servicing the site. (2.5.3.1H)	List of Utilities to be added to CN-001 and CU sheets prior to next submission	N/A

Site Plan Specifications

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Full size plans shall not be larger than 22 inches by 34 inches with match lines as required, unless approved by the Planning Director. Submittals shall be a minimum of 11 inches by 17 inches as specified by Planning Dept. staff. (2.5.4.1A)	Required on all plan sheets	N/A
<input type="checkbox"/>	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be included on all plans. (2.5.4.1B)	Required on all plan sheets	N/A
<input type="checkbox"/>	GIS data should be referenced to the coordinate system New Hampshire State Plane, NAD83 (1996), with units in feet. (2.5.4.1C)	Plan of Land sheet 3 of 3 note 9 Topographic Plans sheet 1 of 5 note 5	N/A
<input type="checkbox"/>	Plans shall be drawn to scale. (2.5.4.1D)	Required on all plan sheets	N/A
<input type="checkbox"/>	Plans shall be prepared and stamped by a NH licensed civil engineer. (2.5.4.1D)	All C sheets	N/A
<input type="checkbox"/>	Wetlands shall be delineated by a NH certified wetlands scientist and so stamped. (2.5.4.1E)	Topographic plans	N/A
<input type="checkbox"/>	Title (name of development project), north point, scale, legend. (2.5.4.2A)	Title block all sheets	N/A
<input type="checkbox"/>	Date plans first submitted, date and explanation of revisions. (2.5.4.2B)	Revision note #1 all C sheets	N/A
<input type="checkbox"/>	Individual plan sheet title that clearly describes the information that is displayed. (2.5.4.2C)	Required on all plan sheets	N/A
<input type="checkbox"/>	Source and date of data displayed on the plan. (2.5.4.2D)	Plan of Land sheet 3 of 3 Topographic Plans sheet 1 of 5	N/A

Site Plan Specifications

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	Note to be added to CN-001 prior to next plan submission	N/A
<input type="checkbox"/>	Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "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." (2.13.3)	Upon decision of sheets to be recorded, notes a and b will be added	N/A
<input type="checkbox"/>	Plan sheets showing landscaping and screening shall also include the following additional notes: a. "The property owner and all future property owners shall be responsible for the maintenance, repair and replacement of all required screening and landscape materials." b. "All required plant materials shall be tended and maintained in a healthy growing condition, replaced when necessary, and kept free of refuse and debris. All required fences and walls shall be maintained in good repair." c. "The property owner shall be responsible to remove and replace dead or diseased plant materials immediately with the same type, size and quantity of plant materials as originally installed, unless alternative plantings are requested, justified and approved by the Planning Board or Planning Director." (2.13.4)	Notes a-c have been added to the landscaping plans Refer to sheet L1.06	N/A

Site Plan Specifications – Required Exhibits and Data

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	1. Existing Conditions: (2.5.4.3A)		
<input type="checkbox"/>	a. Surveyed plan of site showing existing natural and built features;	Topographic Plans 1 thru 5	
<input type="checkbox"/>	b. Zoning boundaries;	Topographic Plans 1 thru 5	
<input type="checkbox"/>	c. Dimensional Regulations;	Topographic Plans 1 thru 5 CN-001 site notes	
<input type="checkbox"/>	d. Wetland delineation, wetland function and value assessment;	Topographic Plans 1 thru 5	
<input type="checkbox"/>	e. SFHA, 100-year flood elevation line and BFE data.	Plan of Land Sheet 3 of 3 note 7	
	2. Buildings and Structures: (2.5.4.3B)		
<input type="checkbox"/>	a. Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation;	CS sheets, CG sheets, CU sheets	
<input type="checkbox"/>	b. Elevations: Height, massing, placement, materials, lighting, façade treatments;	A2.11 to A2.15, A3.11 to A3.12	
<input type="checkbox"/>	c. Total Floor Area;	A1.11 to A1.16, CS-201-203	
<input type="checkbox"/>	d. Number of Usable Floors;	A1.11 to A1.16, CS-201-203	
<input type="checkbox"/>	e. Gross floor area by floor and use.	A1.11 to A1.16, CS-201-203	
	3. Access and Circulation: (2.5.4.3C)		
<input type="checkbox"/>	a. Location/width of access ways within site;	CS-101 to 104, CS-201 to 203	
<input type="checkbox"/>	b. Location of curbing, right of ways, edge of pavement and sidewalks;	CS-101 to 104, CS-201 to 203	
<input type="checkbox"/>	c. Location, type, size and design of traffic signing (pavement markings);	CS-101 to 104, CS-201 to 203	
<input type="checkbox"/>	d. Names/layout of existing abutting streets;	CS-101 to 104, CS-201 to 203	
<input type="checkbox"/>	e. Driveway curb cuts for abutting prop. and public roads;	CS-101 to 104, CS-201 to 203	
<input type="checkbox"/>	f. If subdivision; Names of all roads, right of way lines and easements noted;	Easements will be added to appropriate C sheets prior to next submission	
<input type="checkbox"/>	g. AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC).	CT Sheets	
	4. Parking and Loading: (2.5.4.3D)		
<input type="checkbox"/>	a. Location of off street parking/loading areas, landscaped areas/buffers;	CS-201 to CS-203	
<input type="checkbox"/>	b. Parking Calculations (# required and the # provided).	CN-001, CS-001	
	5. Water Infrastructure: (2.5.4.3E)		
<input type="checkbox"/>	a. Size, type and location of water mains, shut-offs, hydrants & Engineering data;	CU Sheets	
<input type="checkbox"/>	b. Location of wells and monitoring wells (include protective radii).	monitoring wells to be added to plans prior to next submission	
	6. Sewer Infrastructure: (2.5.4.3F)		
<input type="checkbox"/>	a. Size, type and location of sanitary sewage facilities & Engineering data.	CU Sheets	
	7. Utilities: (2.5.4.3G)		
<input type="checkbox"/>	a. The size, type and location of all above & below ground utilities;	CG Sheets Drainage CU Sheets	
<input type="checkbox"/>	b. Size type and location of generator pads, transformers and other fixtures.	CU Sheets, CD-540	

Site Plan Specifications – Required Exhibits and Data

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	8. Solid Waste Facilities: (2.5.4.3H)		
<input type="checkbox"/>	a. The size, type and location of solid waste facilities.	Commercial and Apartments have internal dumpster areas, Townhouses have private curbside pickup Commercial will have a compactor exterior added prior to next submission	
<input type="checkbox"/>	9. Storm water Management: (2.5.4.3I)		
<input type="checkbox"/>	a. The location, elevation and layout of all storm-water drainage.	CG Sheets	
<input type="checkbox"/>	10. Outdoor Lighting: (2.5.4.3J)		
<input type="checkbox"/>	a. Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and;	Sheet LS1	
<input type="checkbox"/>	b. photometric plan.		
<input type="checkbox"/>	11. Indicate where dark sky friendly lighting measures have been implemented. (10.1)	Sheet LS1, all cutoff	
<input type="checkbox"/>	12. Landscaping: (2.5.4.3K)		
<input type="checkbox"/>	a. Identify all undisturbed area, existing vegetation and that which is to be retained;	CS, CG and CU Sheets L1. sheets	
<input type="checkbox"/>	b. Location of any irrigation system and water source.	Sheet IRI.01	
<input type="checkbox"/>	13. Contours and Elevation: (2.5.4.3L)		
<input type="checkbox"/>	a. Existing/Proposed contours (2 foot minimum) and finished grade elevations.	CG sheets	
<input type="checkbox"/>	14. Open Space: (2.5.4.3M)		
<input type="checkbox"/>	a. Type, extent and location of all existing/proposed open space.	CS-001 (West End Yards set)	
<input type="checkbox"/>	15. All easements, deed restrictions and non-public rights of ways. (2.5.4.3N)	Plan of Land Sheet 3 of 3	
<input type="checkbox"/>	16. Location of snow storage areas and/or off-site snow removal. (2.5.4.3O)	CS Sheets, CN-001 notes (notes will be expanded prior to next submission)	
<input type="checkbox"/>	17. Character/Civic District (All following information shall be included): (2.5.4.3Q)	N/A	
<input type="checkbox"/>	a. Applicable Building Height (10.5A21.20 & 10.5A43.30);	N/A	
<input type="checkbox"/>	b. Applicable Special Requirements (10.5A21.30);	N/A	
<input type="checkbox"/>	c. Proposed building form/type (10.5A43);	N/A	
<input type="checkbox"/>	d. Proposed community space (10.5A46).	N/A	

Other Required Information			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Traffic Impact Study or Trip Generation Report, as required. <i>(Four (4) hardcopies of the full study/report and Six (6) summaries to be submitted with the Site Plan Application) (3.2.1-2)</i>		
<input type="checkbox"/>	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	CG-103 bioretention basins CG-201-203 CD-511 to 512	CD-511 to 513
<input type="checkbox"/>	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	it is not	
<input type="checkbox"/>	Indicate where measures to minimize impervious surfaces have been implemented. (7.4.3)	CS, CG and CU sheets, the site reduces existing impervious by over 1 Ac.	
<input type="checkbox"/>	Calculation of the maximum effective impervious surface as a percentage of the site. (7.4.3.2)	CS-001 (West End Yard site plans)	
<input type="checkbox"/>	Stormwater Management and Erosion Control Plan. <i>(Four (4) hardcopies of the full plan/report and Six (6) summaries to be submitted with the Site Plan Application) (7.4.4.1)</i>	Written Stormwater Management and Erosion Control Plan to be submitted with next submission	

Final Site Plan Approval Required Information			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	All local approvals, permits, easements and licenses required, including but not limited to: <ul style="list-style-type: none"> a. Waivers; b. Driveway permits; c. Special exceptions; d. Variances granted; e. Easements; f. Licenses. (2.5.3.2A)	Easements to be granted to City for utilities will be finalized as part of this process	
<input type="checkbox"/>	Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: <ul style="list-style-type: none"> a. Calculations relating to stormwater runoff; b. Information on composition and quantity of water demand and wastewater generated; c. Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; d. Estimates of traffic generation and counts pre- and post-construction; e. Estimates of noise generation; f. A Stormwater Management and Erosion Control Plan; g. Endangered species and archaeological / historical studies; h. Wetland and water body (coastal and inland) delineations; i. Environmental impact studies. (2.5.3.2B)		

Final Site Plan Approval Required Information

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	A document from each of the required private utility service providers indicating approval of the proposed site plan and indicating an ability to provide all required private utilities to the site. (2.5.3.2D)	Letters from the private utilities will be provided prior to the next submission	
<input type="checkbox"/>	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)	A list of required permits will be added to the plans prior to the next submission. NHDES Wetlands, AOT, Sewer and Water Connection permits, EPANPDES CGP	

Applicant's Signature: Richard R. Lundborn **Date:** 06/02/19

Agent for Applicant Richard R. Lundborn, PE, Fuss & O'Neill

Redevelopment of Tax Maps & Lots, 163-33&34, 163-37, 165-2, 172-1 & 173-2

W.E.Y. Sustainability Memorandum

PROJECT: West End Yards – Portsmouth, NH
PROJECT NO: 18016.00
DATE: 6.28.19

RE: TAC / Site Plan Review Sustainability narrative

TO: **Portsmouth Planning Board, Attn: Ms. Juliet Walker**
1 Junkins Ave., Third Floor, Portsmouth, NH
T: 603-610-7216 F: 603-427-1593
E: jthwalker@cityofportsmouth.com

CC: John Bosen, Gregg Mikolaities, Rick Lundborn, David Snell

FROM: Jeffrey Gannon **E-mail: jgannon@prellchil.com**

ENCLOSURE: West End Yards Sustainability Narrative

NOTES: Dear Ms. Walker and the Planning Board Staff,

Per the request of the Site Plan Review Technical Advisory Committee and the Site Plan Review Regulations' section 2.5.3 – 1 – (a), the following, along with the previously submitted LEED (Leadership in Energy and Environmental Design) checklists, is intended to serve as our statement on the sustainable design attributes of our project, West End Yards located at the former Frank Jones Center location. Our development of over 12 acres will include 3 new buildings, 2 multi-family residential with 250 units, and 1 commercial building with office and retail uses. This memo will summarize our sustainable approaches to site and building design.

Sustainability is an often used, sometimes misused, term these days. In environmental science, it refers to the quality of not being harmful to the environment or depleting natural resources, thereby supporting ecological balance. In modern development projects, where the challenge of building structures and infrastructure encounters pre-existing natural conditions, the thoughtful use of technology and good design becomes critical. Wherever possible, the objective is to understand the ecology of the site, repairing it where needed, integrating green infrastructure where feasible, and ultimately creating a development project that supports the public good, combining good urban design with land conservation.

The sustainable benefits to the site are almost immeasurable. To summarize, there will be a cleaning of the Hodgson Brook and it's banks, an addition of a bike and walking path from the growing West End towards the downtown area, access to public transit for users, 100% increase in stormwater treatment and thoughtfully design landscaped areas implemented resulting in over a 20% reduction in impervious ground surface area. The density and mixed uses will benefit the long-term success of the site and neighborhood as well as the addition of open and community space.

Several steps will be taken to strategically specify and install eco-friendly and efficient materials and fixtures, or illuminate waste during construction and during operation / use. High efficiency, low-flow water fixtures will be standardized. Any irrigation will be minimized with efficient equipment or through durable and drought-tolerant plant species specifications. Minimization and diversion waste strategies will be implemented during construction and recycling collection alternatives will be provided during and after construction. Material selection will consider environmental product declarations and certifications. The project will also avoid CFC refrigerants, mercury containing lamps and mid-ranged and high VOC emitting materials.

The project's approach to energy use and interior environments will have a sustainable focus through several outlined measures. The benefits of energy modelling and commissioning will be realized, partially through energy metering of consumption. The minimum indoor air quality standards required by code and also ASHRAE 62.1-2007 will be adhered to as well as the protection of air ducts throughout construction. The site will introduce a ban on tobacco smoke in and around the buildings and implement green cleaning and education programs. Lighting efficiencies and natural light and views will be optimized to LEED standards and Green Power or Carbon Offsets to counteract fossil fuel production can be purchased.

We hope the above narrative and accompanying LEED scorecards (attached for reference) will satisfy the Committee's and application's requirement. We believe all outcomes from this project and the considered techniques and technologies will provide benefits to the community and the environment that it calls home. Please do not hesitate to reach out with any questions or comments and PCA along with our sustainability consultant, New Ecology, Inc. will respond promptly to your requests.

Regards,

A handwritten signature in black ink, appearing to read 'Jeffrey Gannon', written in a cursive style.

Jeffrey Gannon, AIA, LEED GA

Associate

Prellwitz Chilinski Associates, Inc. (Architect)



LEED v4 for BD+C: Core and Shell Project Checklist

Project Name: West End Yards - Commercial
Date: 06.18.19

Y	?	N	Credit	1
				Integrative Process
8	2	10	20	Location and Transportation
				LEED for Neighborhood Development Location
				Sensitive Land Protection
				High Priority Site
				Surrounding Density and Diverse Uses
				Access to Quality Transit
				Bicycle Facilities
				Reduced Parking Footprint
				Green Vehicles

6	1	4	11	Sustainable Sites
				Construction Activity Pollution Prevention
				Site Assessment
				Site Development - Protect or Restore Habitat
				Open Space
				Rainwater Management
				Heat Island Reduction
				Light Pollution Reduction
				Tenant Design and Construction Guidelines

2	4	5	11	Water Efficiency
				Outdoor Water Use Reduction
				Indoor Water Use Reduction
				Building-Level Water Metering
				Outdoor Water Use Reduction
				Indoor Water Use Reduction
				Cooling Tower Water Use
				Water Metering

11	1	21	33	Energy and Atmosphere
				Fundamental Commissioning and Verification
				Minimum Energy Performance
				Building-Level Energy Metering
				Fundamental Refrigerant Management
				Enhanced Commissioning
				Optimize Energy Performance
				Advanced Energy Metering
				Demand Response
				Renewable Energy Production
				Enhanced Refrigerant Management
				Green Power and Carbon Offsets

5	0	9	14	Materials and Resources
				Storage and Collection of Recyclables
				Construction and Demolition Waste Management Planning
				Building Life-Cycle Impact Reduction
				Building Product Disclosure and Optimization - Environmental Product Declarations
				Building Product Disclosure and Optimization - Sourcing of Raw Materials
				Building Product Disclosure and Optimization - Material Ingredients
				Construction and Demolition Waste Management

5	0	5	10	Indoor Environmental Quality
				Minimum Indoor Air Quality Performance
				Environmental Tobacco Smoke Control
				Enhanced Indoor Air Quality Strategies
				Low-Emitting Materials
				Construction Indoor Air Quality Management Plan
				Daylight
				Quality Views

1	0	5	6	Innovation
				Innovation
				LEED Accredited Professional

3	0	1	4	Regional Priority
				LT Sensitive Land Protection; threshold = 1 point
				SS Open Space; threshold = 1 point
				SS Rainwater Management; threshold = 2 points
				EA Optimize Energy Performance; threshold = 8 points

41	8	61	110	TOTALS
				Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110



LEED v4 for BD+C: New Construction and Major Renovation Project Checklist

Project Name: West End Yards -Residential
Date: 06.18.19

Y	?	N	Credit	1	Integrative Process
6	2	8	16	16	Location and Transportation
1			1	1	LEED for Neighborhood Development Location
		2	2	2	Sensitive Land Protection
5			5	5	High Priority Site
		5	5	5	Surrounding Density and Diverse Uses
		5	5	5	Access to Quality Transit
	1		1	1	Bicycle Facilities
		1	1	1	Reduced Parking Footprint
	1		1	1	Green Vehicles

5	1	4	10	10 <th>Sustainable Sites</th>	Sustainable Sites
Y			1	1	Construction Activity Pollution Prevention
	1		1	1	Site Assessment
	2		2	2	Site Development - Protect or Restore Habitat
1			1	1	Open Space
2	1		3	3	Rainwater Management
2			2	2	Heat Island Reduction
		1	1	1	Light Pollution Reduction

2	4	5	11	11 <th>Water Efficiency</th>	Water Efficiency
Y			1	1	Outdoor Water Use Reduction
Y			1	1	Indoor Water Use Reduction
Y			1	1	Building-Level Water Metering
2	2		2	2	Outdoor Water Use Reduction
		2	2	2	Indoor Water Use Reduction
		2	2	2	Cooling Tower Water Use
		1	1	1	Water Metering

9	1	23	33	33 <th>Energy and Atmosphere</th>	Energy and Atmosphere
Y			1	1	Fundamental Commissioning and Verification
Y			1	1	Minimum Energy Performance
Y			1	1	Building-Level Energy Metering
Y			1	1	Fundamental Refrigerant Management
5	1		6	6	Enhanced Commissioning
2	16		18	18	Optimize Energy Performance
	1		1	1	Advanced Energy Metering
	2		2	2	Demand Response
	3		3	3	Renewable Energy Production
	1		1	1	Enhanced Refrigerant Management
2			2	2	Green Power and Carbon Offsets

4	1	8	13	13 <th>Materials and Resources</th>	Materials and Resources
Y			1	1	Storage and Collection of Recyclables
Y			1	1	Construction and Demolition Waste Management Planning
	5		5	5	Building Life-Cycle Impact Reduction
1			2	2	Building Product Disclosure and Optimization - Environmental Product Declarations
1	1		2	2	Building Product Disclosure and Optimization - Sourcing of Raw Materials
1	1		2	2	Building Product Disclosure and Optimization - Material Ingredients
2			2	2	Construction and Demolition Waste Management

8	0	8	16	16 <th>Indoor Environmental Quality</th>	Indoor Environmental Quality
Y			1	1	Minimum Indoor Air Quality Performance
Y			1	1	Environmental Tobacco Smoke Control
	2		2	2	Enhanced Indoor Air Quality Strategies
3			3	3	Low-Emitting Materials
1			1	1	Construction Indoor Air Quality Management Plan
2			2	2	Indoor Air Quality Assessment
1			1	1	Thermal Comfort
2			2	2	Interior Lighting
	3		3	3	Daylight
1			1	1	Quality Views
	1		1	1	Acoustic Performance

3	0	3	6	6 <th>Innovation</th>	Innovation
2			2	2	Innovation *
1			1	1	LEED Accredited Professional

3	1	0	4	4 <th>Regional Priority</th>	Regional Priority
1			1	1	LT Sensitive Land Protection; threshold = 1 point
1			1	1	SS Open Space; threshold = 1 point
1			1	1	SS Rainwater Management; threshold = 2 points
1			1	1	MR BPD) - Sourcing Raw Materials; threshold = 1 point

40	10	60	TOTALS	Possible Points: 110
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Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

- *Innovation Credits:
 1. Green Cleaning Protocol
 2. Green Education of Building Tenants

WEST END YARDS

CATE STREET · PORTSMOUTH · NEW HAMPSHIRE

SITE PLANS

JULY, 2019

PREPARED FOR
CATE STREET DEVELOPMENT, LLC

11 ELKINS STREET, SUITE 420
BOSTON, MA 02127
987.490.5278



PREPARED BY

FUSS & O'NEILL

UPPER SQUARE BUSINESS CENTER
5 FLETCHER STREET, SUITE 1
KENNEBUNK, MAINE 04043
207.363.0669
www.fando.com

PROJECT TEAM

ARCHITECT

PRELLWITZ CHILINSKI ASSOCIATES
221 HAMPSHIRE STREET
CAMBRIDGE, MA. 02139
617.547.8120

LANDSCAPE ARCHITECTS

SITE SOLUTIONS, LLC
3715 NORTHSIDE PARKWAY
300 NORTH CREEK, SUITE 720
ATLANTA, GA. 30327
404.705.9411

NATURAL RESOURCES

CONSULTANT

GOVE ENVIRONMENTAL SERVICES, INC
8 CONTINENTAL DRIVE
BUILDING 2, SUITE H
EXETER, NH. 03833-7507
603.778.0644

GEOTECHNICAL ENGINEERS

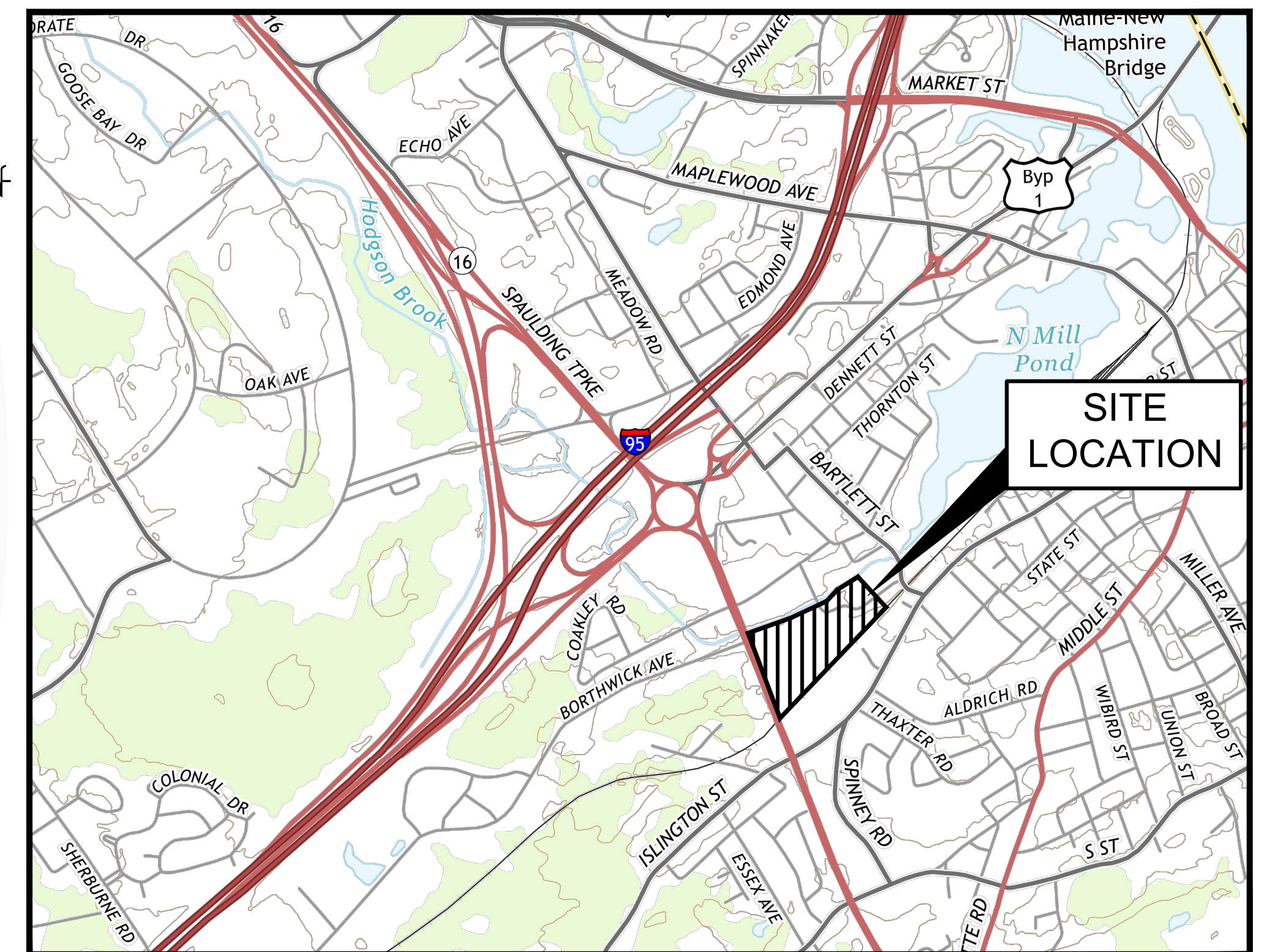
McPHAIL ASSOCIATES, LLC
2269 MASSACHUSETTS AVENUE
CAMBRIDGE, MA. 02140
617.868.1420

LAND SURVEYOR

DOUCET SURVEY, INC
102 KENT PLACE
NEWMARKET, NH. 03857
603.659.6560

SHEET INDEX

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A2.11-A2.15	ELEVATIONS
A2.11-A3.12	RENDERINGS
CN-001-CN-002	GENERAL NOTES & LEGEND
CP-200-CP-204	SITE PREPARATION PLANS
CS-002	DEVELOPMENT STANDARDS SITE PLAN
CS-003	RESERVE PARKING PLAN
CS-200-CS-203	SITE PLANS
CG-001	SITE DRAINAGE STRUCTURE TABLE
CG-200-CG-203	GRADING, DRAINAGE & EROSION CONTROL PLAN
CU-001	SITE SEWER STRUCTURE TABLE
CU-200-CU-203	UTILITY PLANS
CD-510-CD-512	DRAINAGE DETAILS
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L1.00-IRI.01	LANDSCAPE PLANS
LS1	LIGHTING PLANS
SURVEY PLANS	SUBDIVISION & EASEMENT PLANS
SURVEY PLANS	TOPOGRAPHICAL PLANS

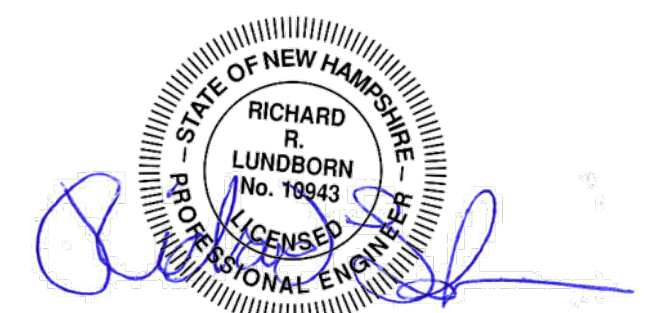


LOCATION MAP

SCALE: 1" = 1200'



CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION
THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. GLD CONSULTING ENG. INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. 72 HOURS PRIOR TO ANY EXCAVATION ON SITE, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE.



STATE AND FEDERAL PERMITS REQUIRED:		
PERMIT	REQUIRED / NOT REQUIRED	STATUS / PERMIT NO.
NHDES WETLANDS BUREAU STANDARD DREDGE AND FILL	REQUIRED	2019-00523
NHDES ALTERATION OF TERRAIN	REQUIRED	PENDING
NHDES WATER MAIN EXTENSION	REQUIRED	PENDING
NHDES SEWER MAIN EXTENSION	REQUIRED	PENDING
NHDOT ENTRANCE PERMIT	REQUIRED	PENDING
EPA, NPDES CONSTRUCTION GENERAL PERMIT (CGP)	REQUIRED	PENDING

PROJ. No.: 20170317.A10
DATE: JULY 2019

GI-002

**WEST END YARDS -
PORTSMOUTH**
428 RT. 1 BYPASS - PORTSMOUTH

REVISIONS:

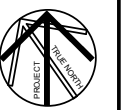
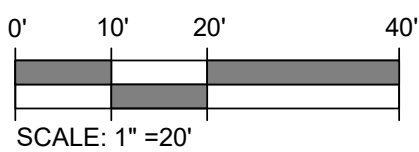
ORIGINAL ISSUE:

05/10/19

SCALE: 1" = 20'-0"

GROUND FLOOR PLAN - AB

A1.11



**WEST END YARDS -
PORTSMOUTH**
428 RT. 1 BYPASS - PORTSMOUTH

REVISIONS:

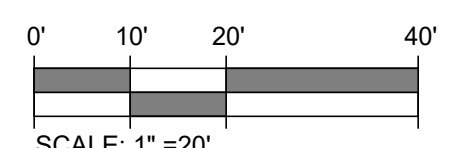
ORIGINAL ISSUE:

05/10/19

SCALE: 1" = 20'-0"

SECOND FLOOR - AB

A1.12



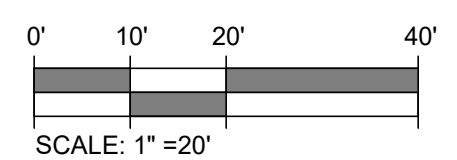
**WEST END YARDS -
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SCALE: 1" = 20'-0"

THIRD FLOOR PLAN - AB

A1.13
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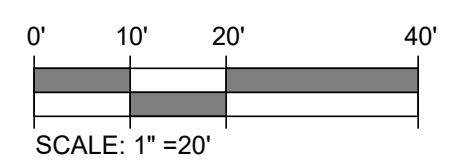
**WEST END YARDS -
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SCALE: 1" = 20'-0"

**FOURTH
FLOOR PLAN -
AB**

A1.14
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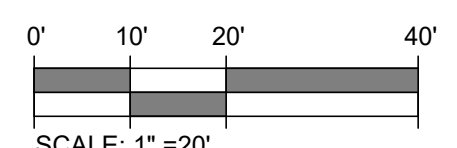
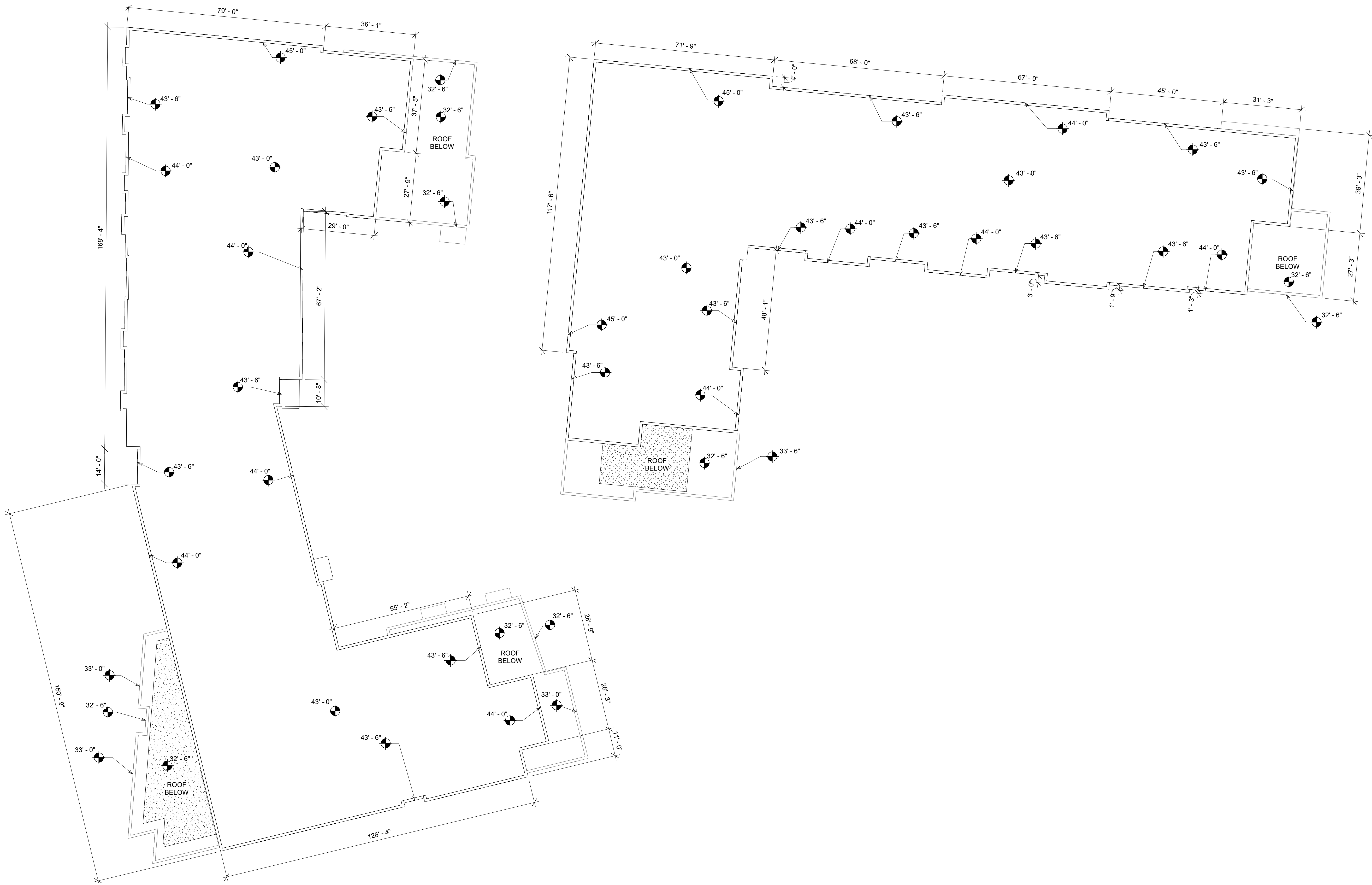
05/10/19

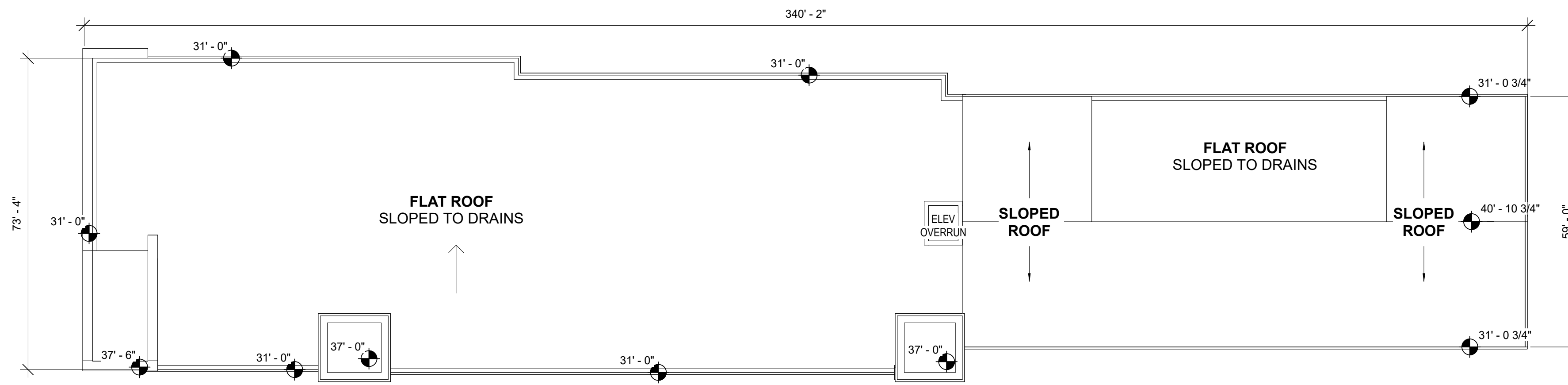
SCALE: 1" = 20'-0"

ROOF PLAN -
AB

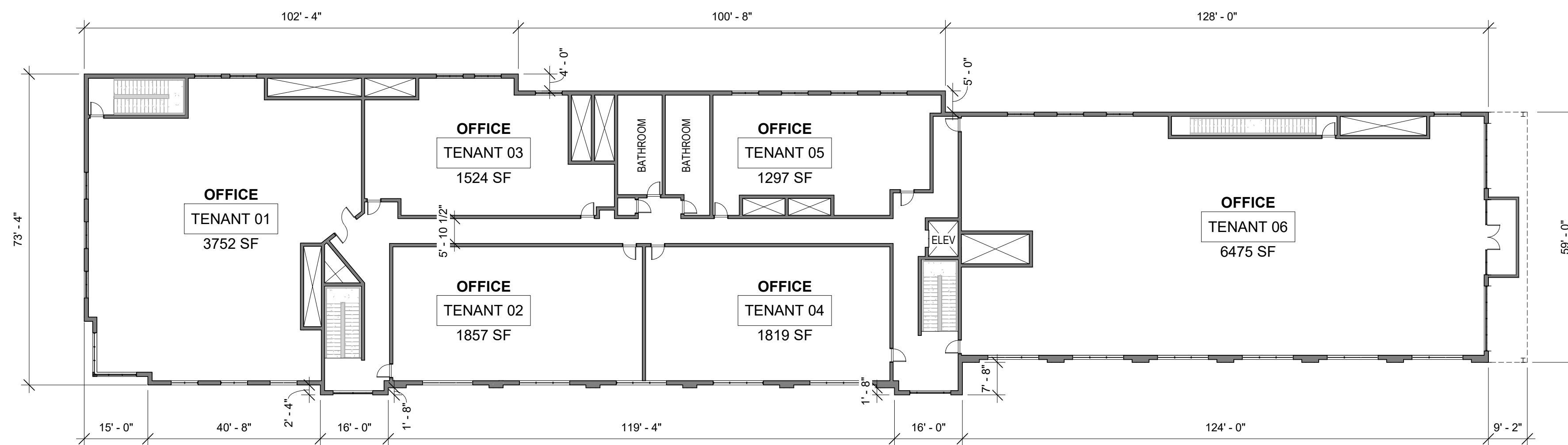
A1.15

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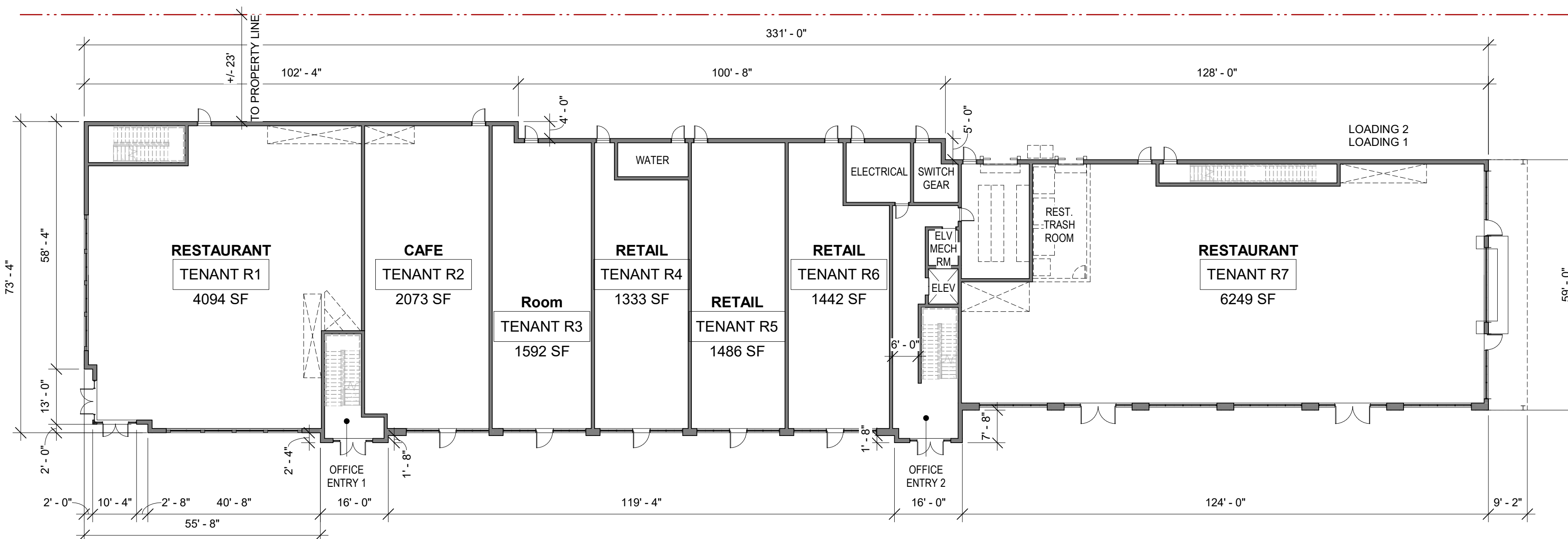




3 ROOF
1" = 20'-0"



2 SECOND FLOOR
1" = 20'-0"



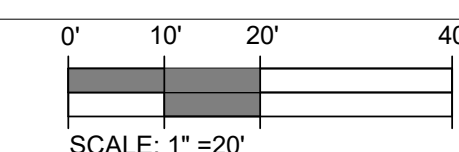
1 GROUND FLOOR
1" = 20'-0"

REVISIONS:

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SCALE: 1" = 20'-0"

TAC RETAIL
BUILDING
PLANS

A1.16
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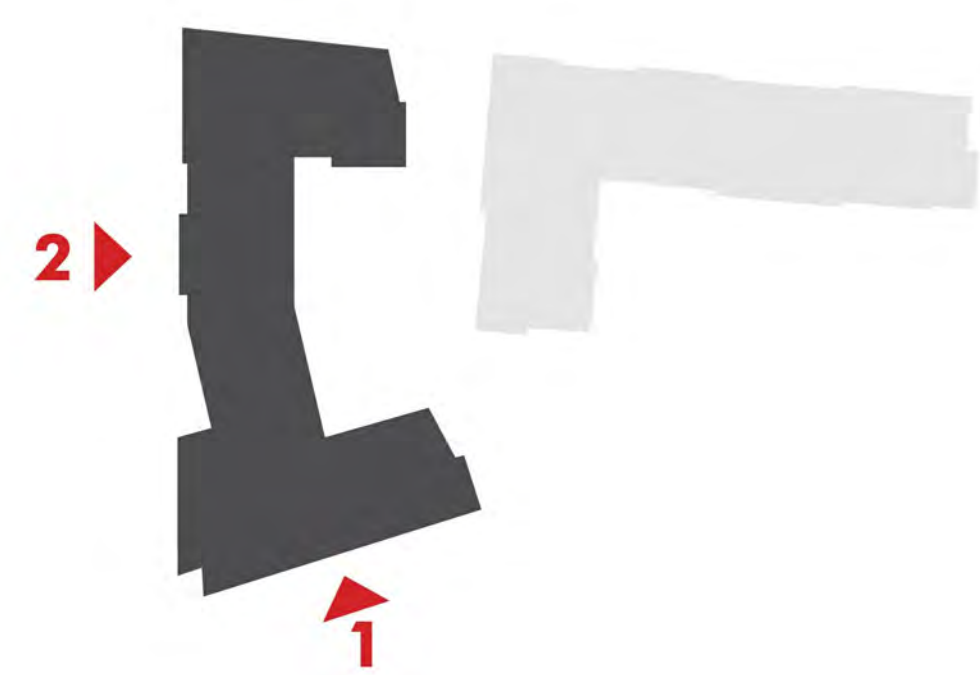
EXTERIOR MATERIALS LEGEND	
MARK	MATERIAL
1	METAL PANEL
2	SHINGLES
3	RIBBED PANEL
4	CLAPBOARD
5	FAUX WOOD PANEL
6	FIBER CEMENT PANEL



1 SOUTH ELEVATION
1/16" = 1'-0"



2 WEST ELEVATION
1/16" = 1'-0"



REVISIONS:

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05/10/19
SCALE: As indicated

Building A
Elevations

EXTERIOR MATERIALS LEGEND	
MARK	MATERIAL
1	METAL PANEL
2	SHINGLES
3	RIBBED PANEL
4	CLAPBOARD
5	FAUX WOOD PANEL
6	FIBER CEMENT PANEL



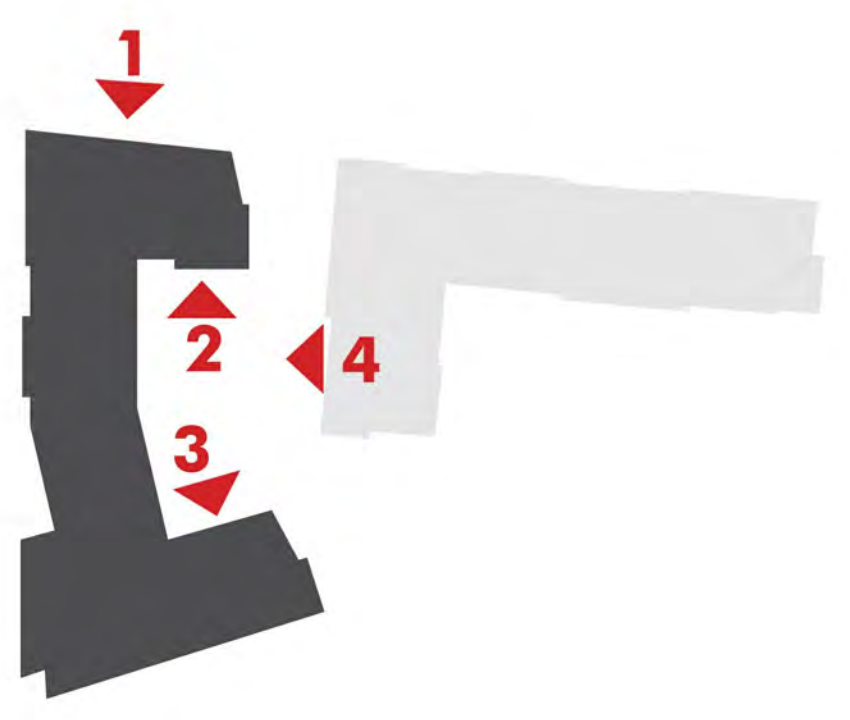
1 NORTH ELEVATION
1/16" = 1'-0"

2 NORTH ELEV. COURTYARD
1/16" = 1'-0"

3 SOUTH ELEV. COURTYARD
1/16" = 1'-0"



4 EAST ELEVATION
1/16" = 1'-0"



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SCALE: As indicated

Building A Elevations

A2.12
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EXTERIOR MATERIALS LEGEND	
MARK	MATERIAL
1	METAL PANEL
2	SHINGLES
3	RIBBED PANEL
4	CLAPBOARD
5	FAUX WOOD PANEL
6	FIBER CEMENT PANEL

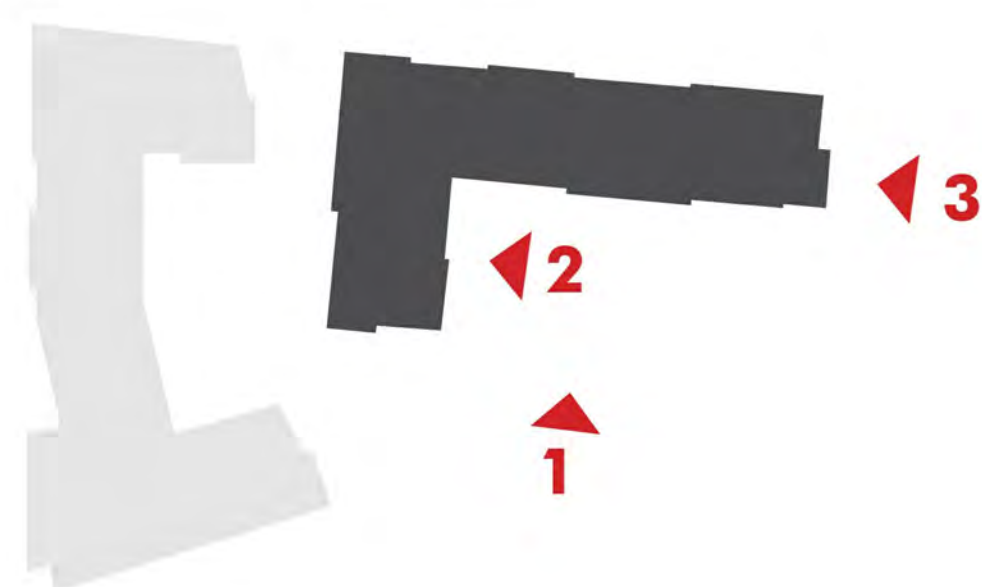


1 SOUTH ELEVATION
1/16" = 1'-0"



2 EAST ELEVATION
1/16" = 1'-0"

3 EAST ELEVATION
1/16" = 1'-0"



REVISIONS:

ORIGINAL ISSUE:
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SCALE: As indicated

Building B
Elevations

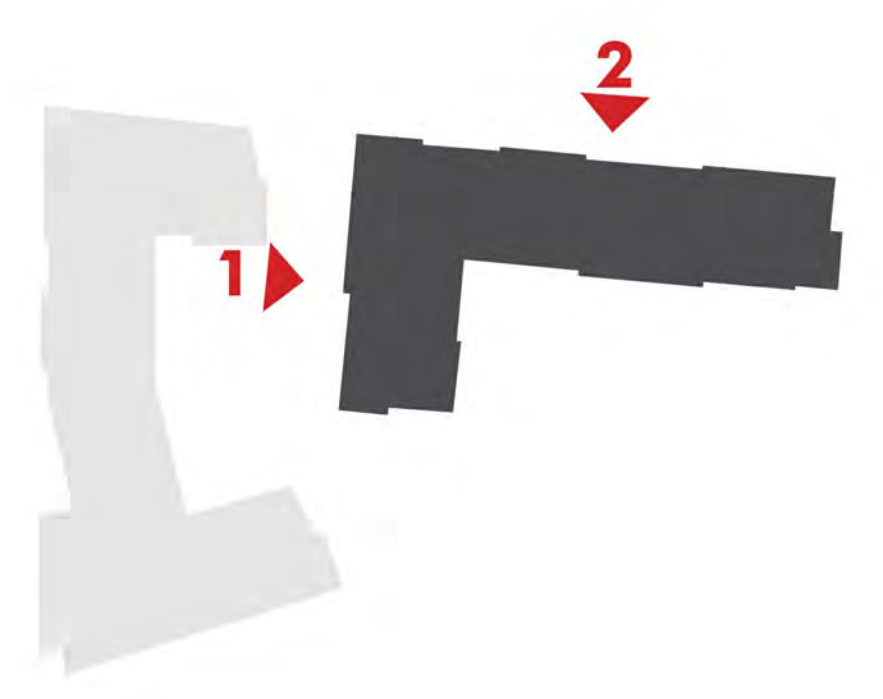
EXTERIOR MATERIALS LEGEND	
MARK	MATERIAL
1	METAL PANEL
2	SHINGLES
3	RIBBED PANEL
4	CLAPBOARD
5	FAUX WOOD PANEL
6	FIBER CEMENT PANEL



1 WEST ELEVATION
1/16" = 1'-0"



2 NORTH ELEVATION
1/16" = 1'-0"



REVISIONS:	
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SCALE:	As indicated

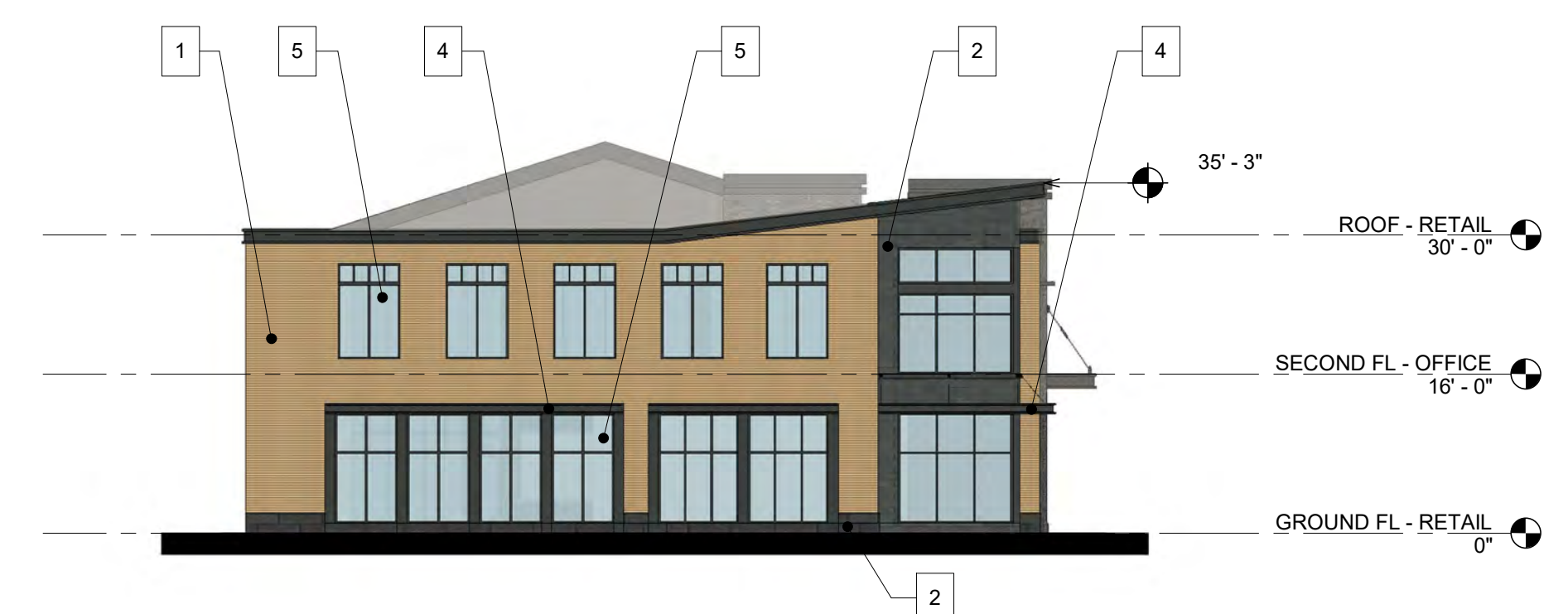
Building B Elevations

A2.14

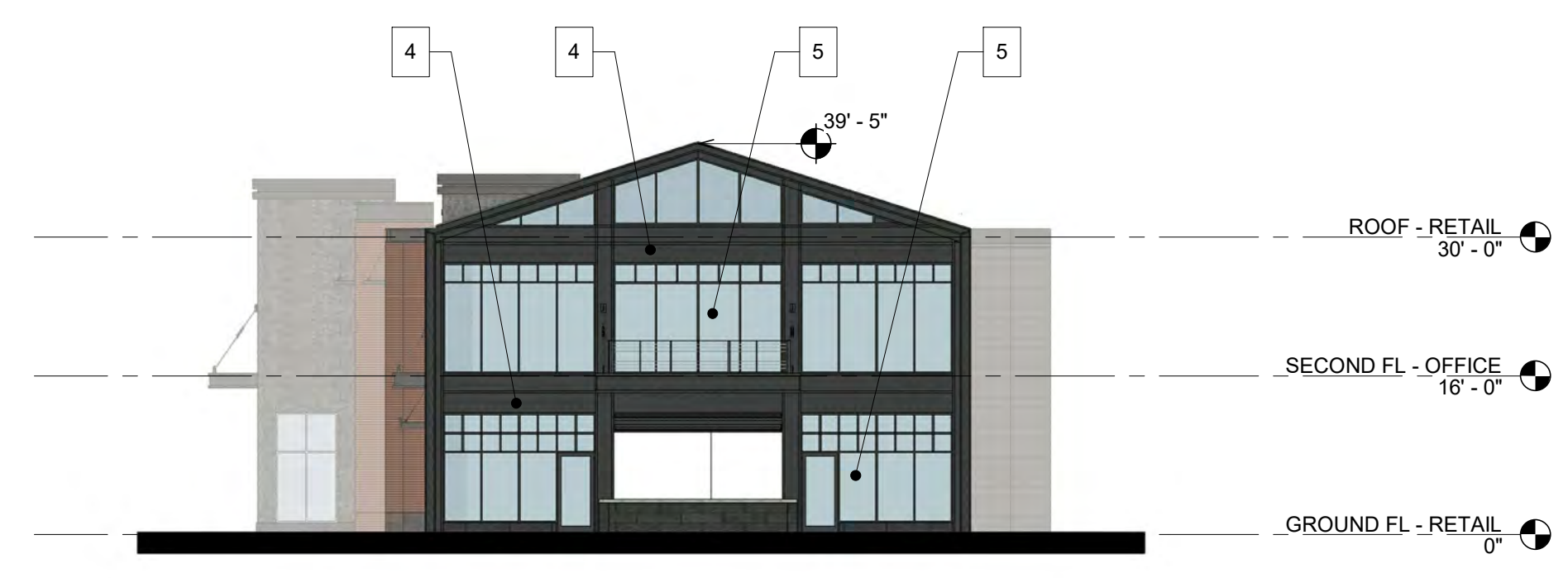
EXTERIOR MATERIALS LEGEND	
MARK	MATERIAL
1	RIBBED PANEL
2	CMU
3	BRICK
4	METAL PANEL
5	STOREFRONT



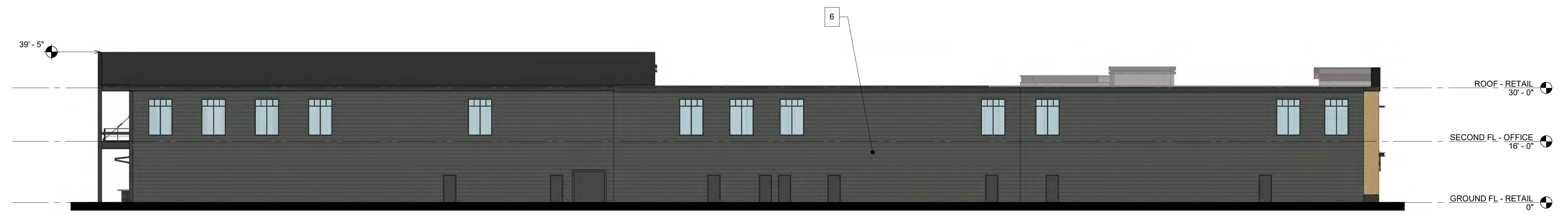
1 SOUTH ELEVATION
1/16" = 1'-0"



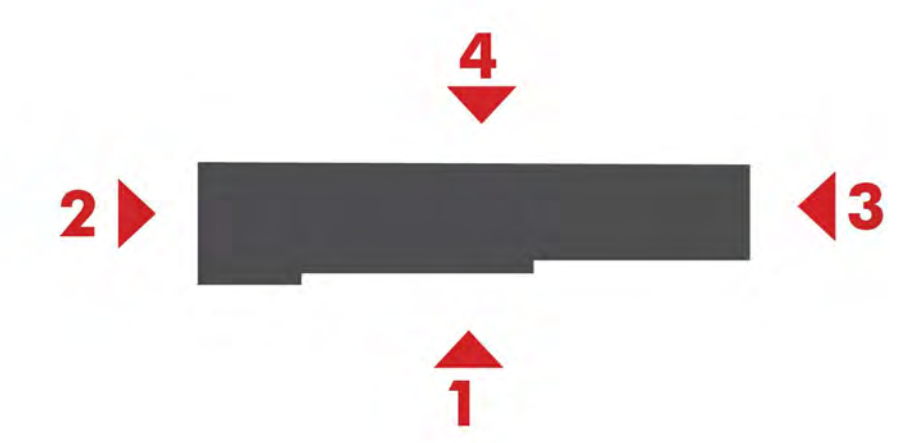
2 WEST ELEVATION
1/16" = 1'-0"



3 EAST ELEVATION
1/16" = 1'-0"



4 NORTH ELEVATION
1/16" = 1'-0"



REVISIONS:

ORIGINAL ISSUE:
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SCALE: As indicated

Retail Building Elevations

A2.15
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**WEST END YARDS -
PORTSMOUTH**
428 RT. 1 BYPASS - PORTSMOUTH

REVISIONS:

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SCALE:

VIEW OF
RETAIL

A3.11



**WEST END YARDS -
PORTSMOUTH**
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REVISIONS:

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05/10/19

SCALE:

VIEW OF RESI

A3.12



SURVEY NOTES

- 1. FIELD SURVEY PERFORMED BY P.J.S. & J.C.M. DURING NOVEMBER 2016 USING A TRIMBLE S6 TOTAL STATION, A TRIMBLE R8 SURVEY GRADE GPS UNIT, A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL, BY L.P.S. & S.N.F. DURING JULY 2018 AND T.M.M. & J.C.M. IN SEPTEMBER & OCTOBER 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS. ADDITIONAL FIELD SURVEY PERFORMED BY M.C. DURING NOVEMBER 2016 AND OCTOBER 2018 USING A LEICA HDS SCANNER.
- 2. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY MARC JACOBS IN NOVEMBER OF 2016 AND REVIEWED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING APRIL 2018 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, JANUARY 1987 AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0 JANUARY 2012 AND FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, MAY 2017, NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
- 3. FLOOD HAZARD ZONE: "x", PER FIRM MAP #33015C0259E, DATED 5/17/05.
- 4. VERTICAL DATUM IS BASED ON NGVD29 PER DISK V 28 1942 ELEV. 25.59.
- 5. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE(2800) NAD83(2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 6. REFERENCE PLANS:
REFER TO THE PLAN OF LAND AT THE END OF THIS PACKAGE FOR ALL REFERENCE PLANS AND EASEMENTS THAT THE PARCELS ARE SUBJECT TO.

GENERAL

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- 3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
- 5. PLEASE READ ALL OTHER NOTES ON THIS PAGE. THEY CONTAIN INFORMATION RELATED TO AND ASSOCIATED WITH THIS PROJECT AND DESIGN.
- 6. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE CITY.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- 8. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE CITY OF PORTSMOUTH SITE PLAN REGULATIONS, CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS, AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF PORTSMOUTH.
- 9. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY FUSS & O'NEILL DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HERE ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.

WORK RESTRICTIONS

- 16. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- 2. WORK IS RESTRICTED TO THE HOURS OF TO THE HOURS (TIME) TO (TIME) ON (DAY) THROUGH (DAY)

REGULATORY REQUIREMENTS

- 1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- 2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
- 3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

- 5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- 6. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NEW HAMPSHIRE DEP STORMWATER AND DEWATERING WASTEWATER FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PROCESS. (NAME OF APPLICANT) HAS SUBMITTED INFORMATION TO THE DEP TO SATISFY THIS GENERAL PERMIT. THE CONTRACTOR MUST HAVE A COPY OF THIS GENERAL PERMIT ON SITE AT ALL TIMES.

EROSION AND SEDIMENT CONTROL

- 1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
- 2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
- 3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

DEMOLITION

- 1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.

CONSTRUCTION LAYOUT

- 1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
- 2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
- 3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
- 4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
- 5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

EARTHWORK

- 1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION.

CALL DIGSAFE: 1-888-DIG-SAFE
- 2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
- 3. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.

PAVEMENT

- 1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

GENERAL SITE RESTORATION

- 1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- 2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
- 3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

UTILITIES

- 1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- 2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- 3. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
- 4. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- 5. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

MINIMUM INTERIOR DIAMETERS:
 0 TO 20 FEET DEEP; 4 FEET.
 20 FEET OR GREATER; 5 FEET.

- 6. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
 IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
 IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS:
 1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.

- 6. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER AND ARCHITECT.

PORTSMOUTH UTILITY CONTACT INFORMATION:

WATER/SEWER:

JIM TOW
 GENERAL FOREMAN
 PORTSMOUTH DEPARTMENT OF PUBLIC WORKS
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801
 603.766.1426
 JVTOW@CITYOFPORTSMOUT.COM

ELECTRIC:

NICKOLAI KOSKO
 FIELD SERVICE REPRESENTATIVE
 EVERSOURCE ENERGY
 74 OLD DOVER ROAD
 ROCHESTER, NH 03867
 603.332.4227 EXT. 5555334
 NICKOLAI.KOSKO@EVERSOURCE.COM

NATURAL GAS:

DAVID BEAULIEU
 SR. BUSINESS DEVELOPMENT REPRESENTATIVE
 UNITIL SERVICE CORP.
 325 WEST ROAD
 PORTSMOUTH, NH 03801
 603.294.5144
 BEAULIEU@UNITIL.COM

TRAFFIC:

ERIC EBY
 PARKING AND TRANSPORTATION ENGINEER
 DEPARTMENT OF PUBLIC WORKS
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801
 603.766.1415

CABLE:

MIKE COLLINS
 COMCAST
 334 CALEF HIGHWAY
 EPPING, NH 03042
 603.679.5695
 MIKCOLLINS@COMCAST.COM

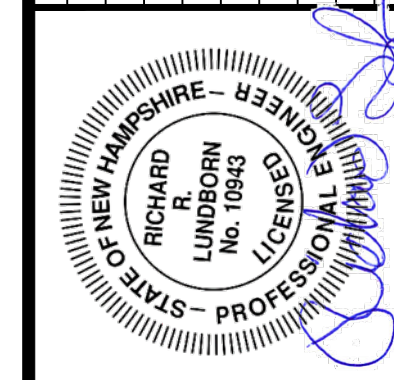
TELEPHONE:

JOSEPH CONSIDINE
 ENGINEER
 CONSOLIDATED COMMUNICATIONS
 1575 GREENLAND ROAD
 GREENLAND, NH 03840
 603.427.5525
 JOSEPH.CONSIDINE@CONSOLIDATED.COM

ROAD, MATERIALS AND SIGNAL:

DAVE DEFOSSES
 PROJECT MANAGER
 PORTSMOUTH DEPARTMENT OF PUBLIC WORKS
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801
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 DJDEFOSSES@CITYOFPORTSMOUT.COM

NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
1.		JVA/DAD	RRL
2.		JVA/DAD	RRL
3.	7/24/2019	TAC SUBMITTAL	RRL
4.	6/20/2019	TAC SUBMITTAL	RRL
5.	5/20/2019	TAC SUBMITTAL	RRL
6.	3/18/2019	TAC SUBMITTAL	RRL



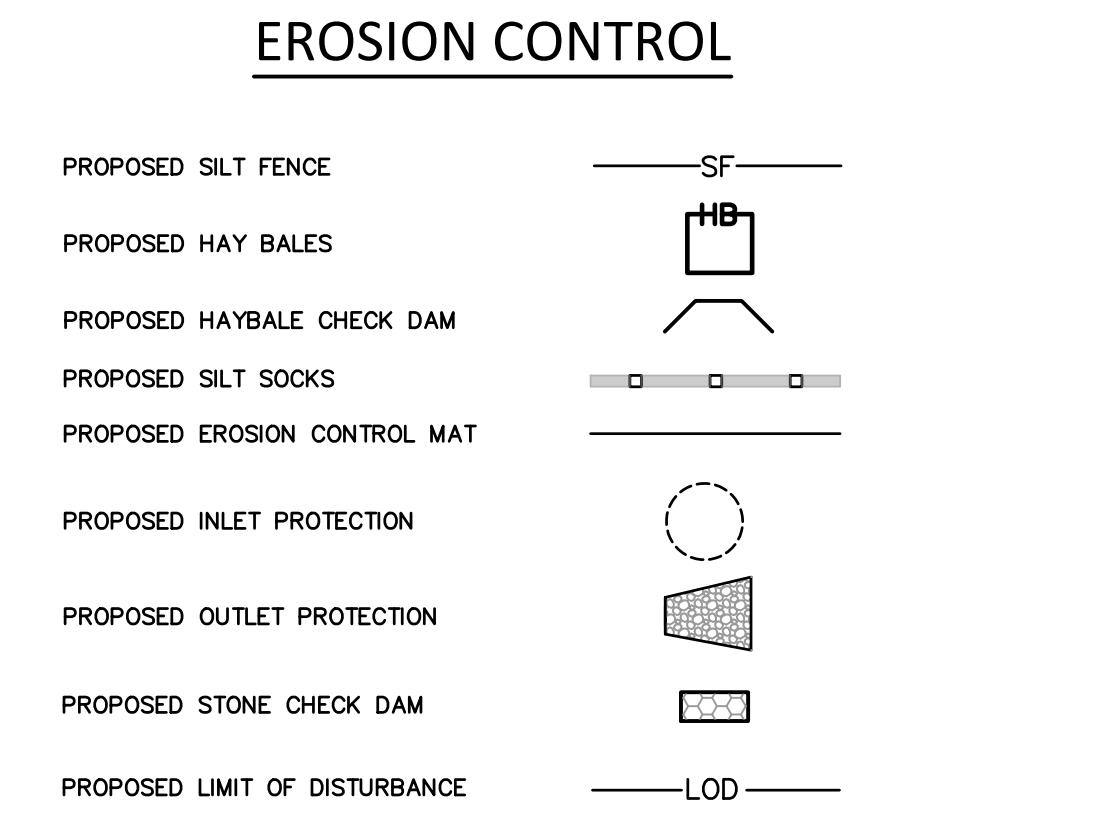
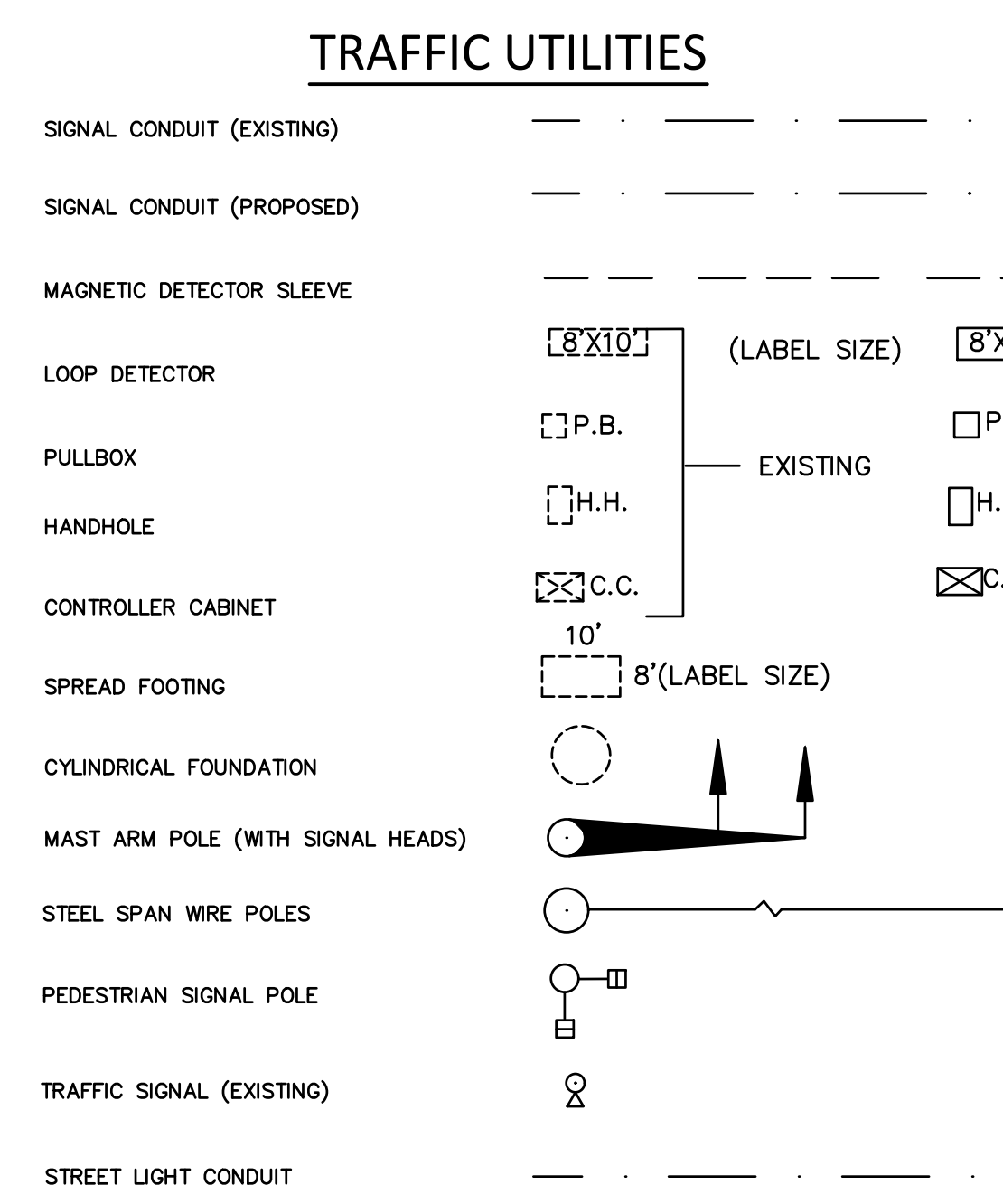
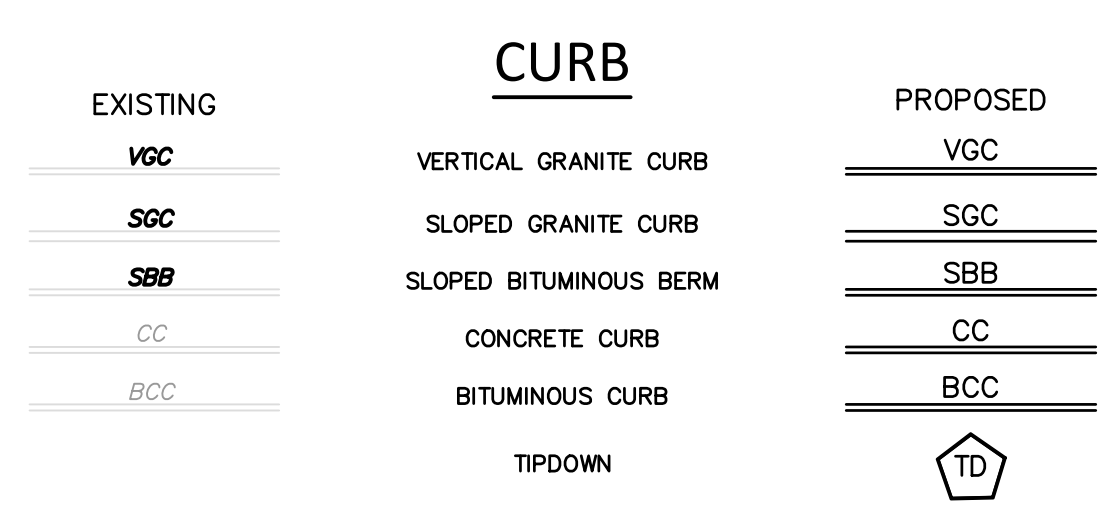
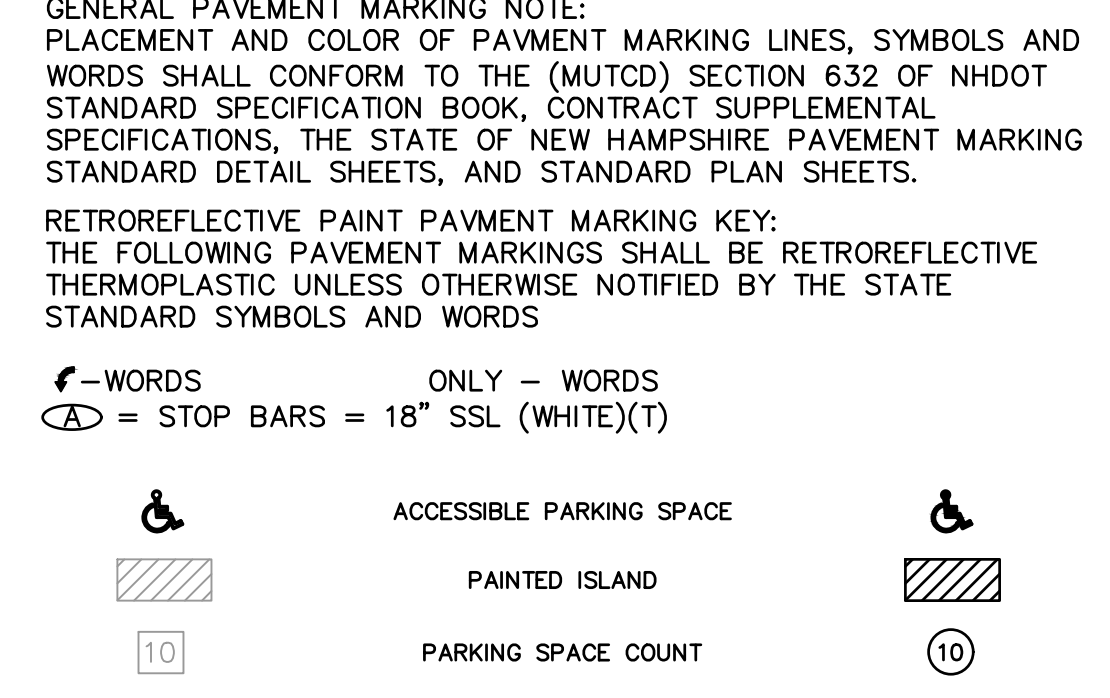
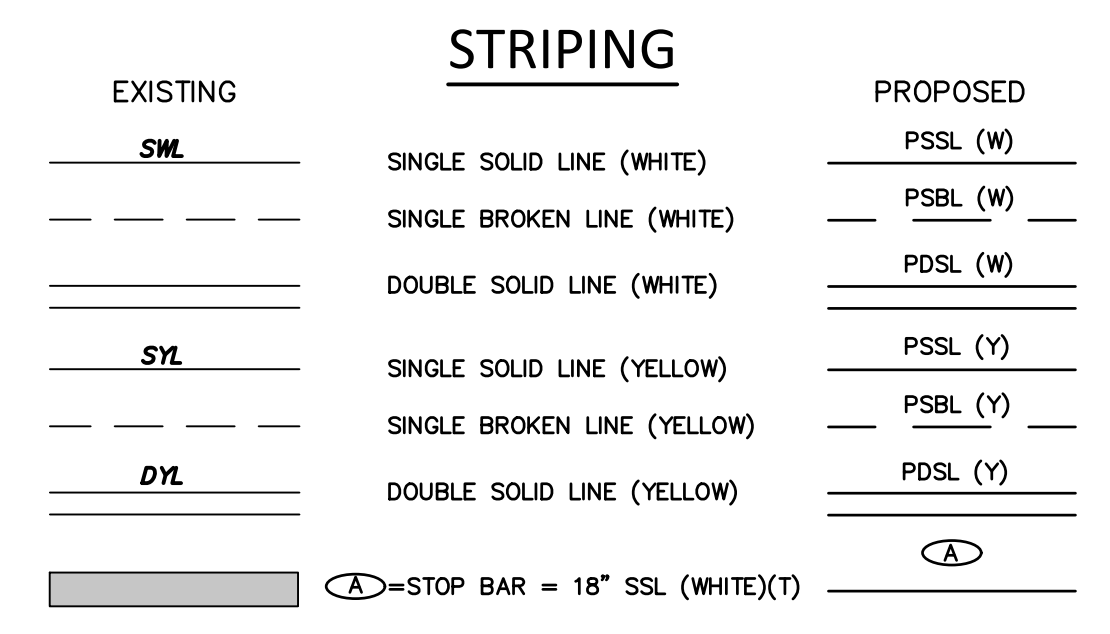
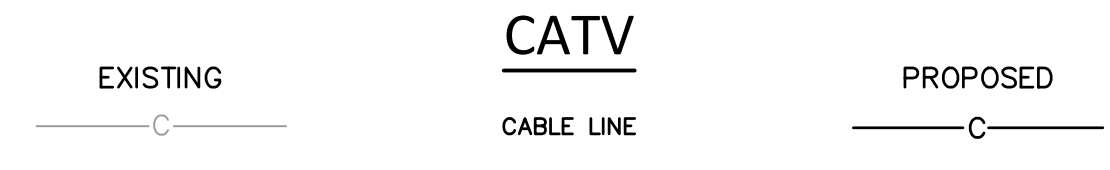
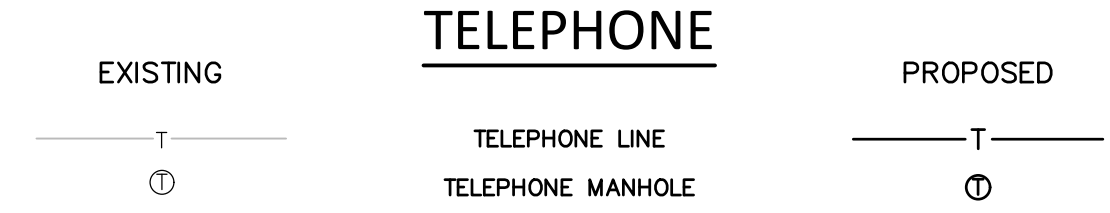
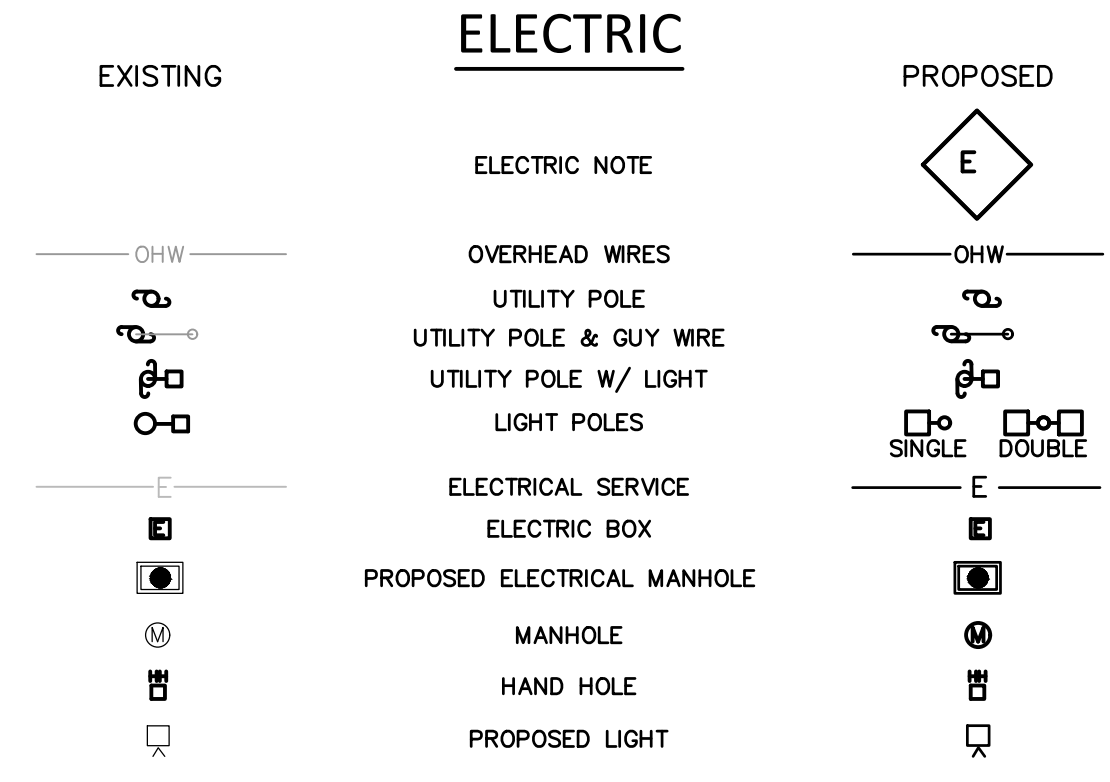
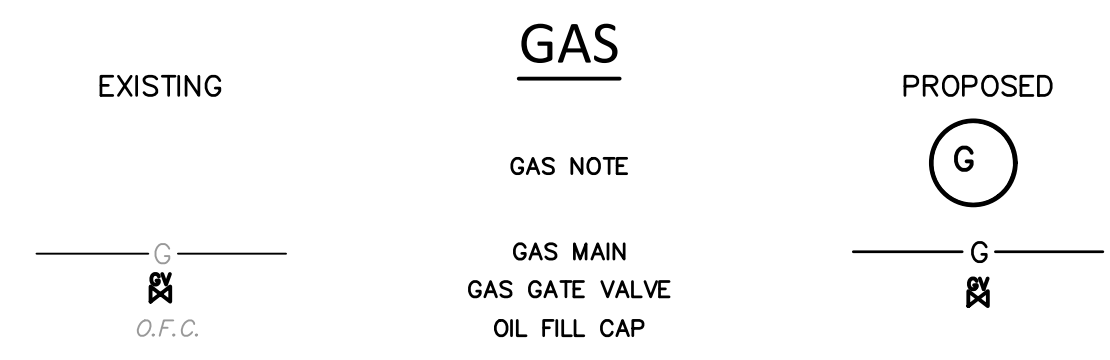
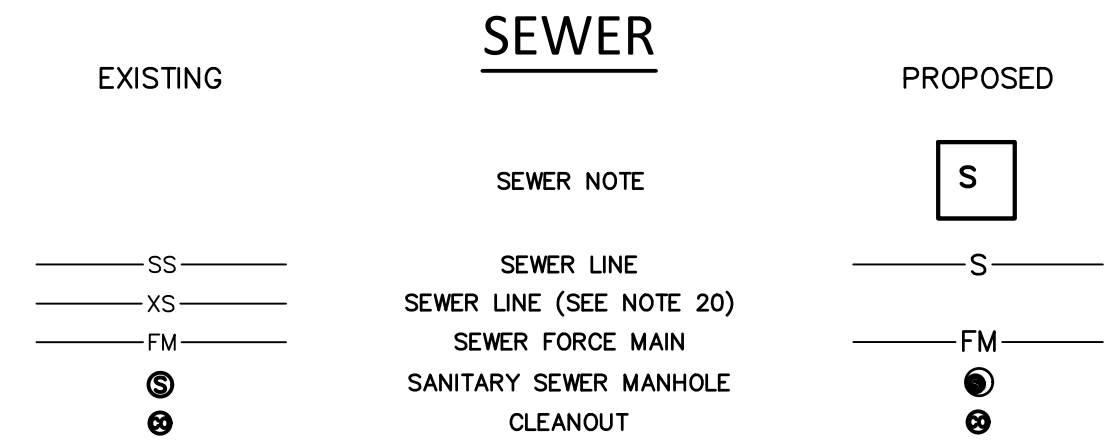
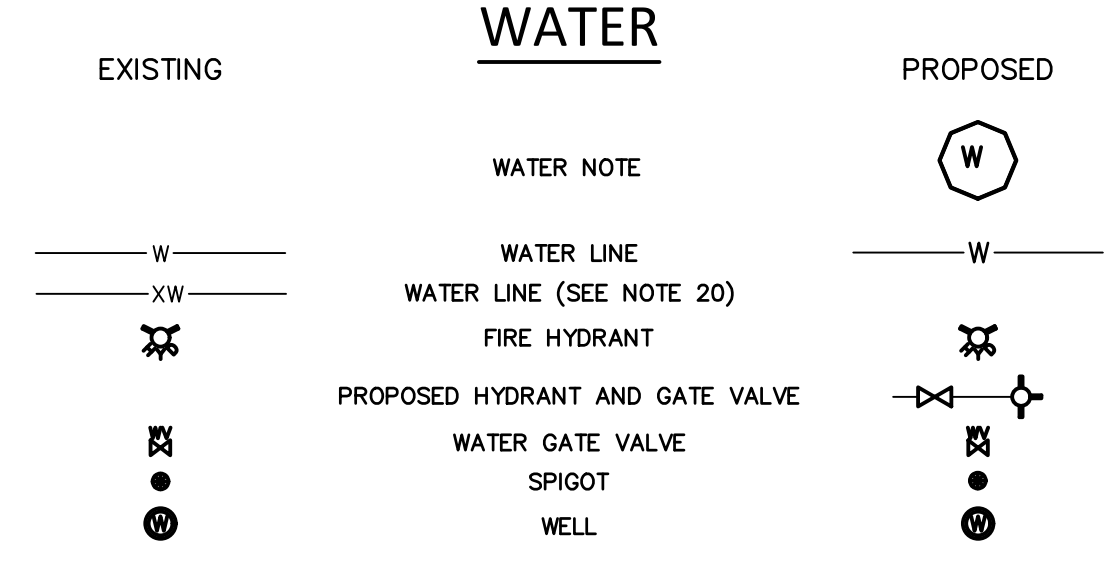
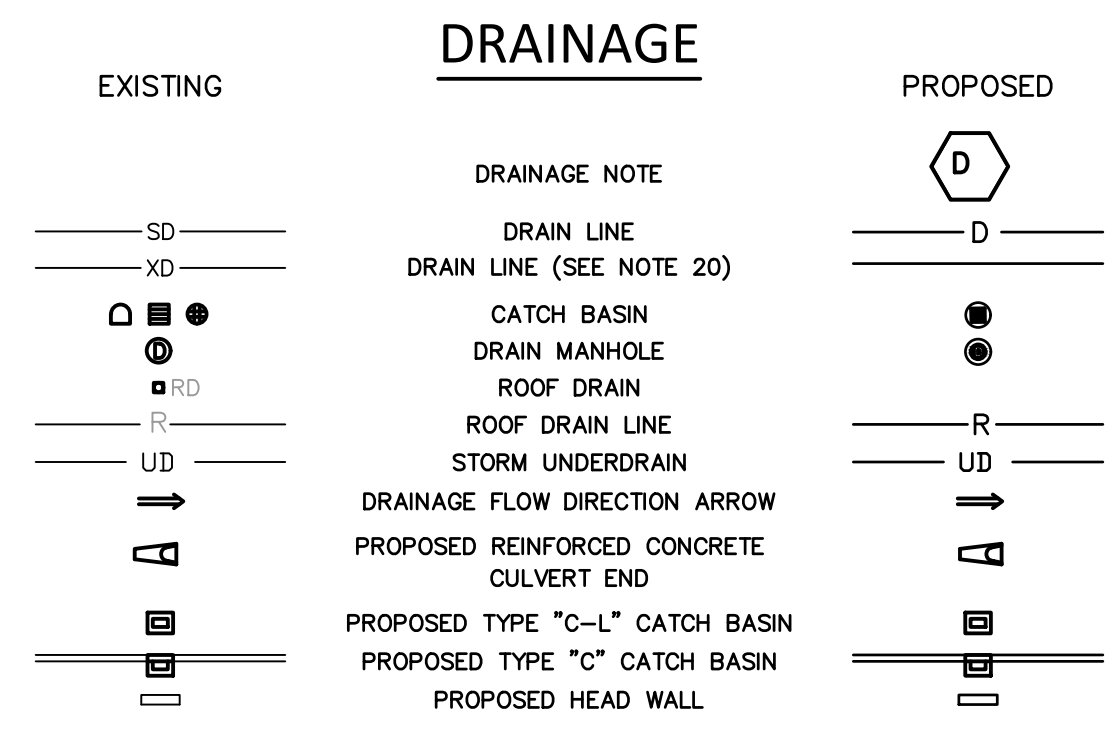
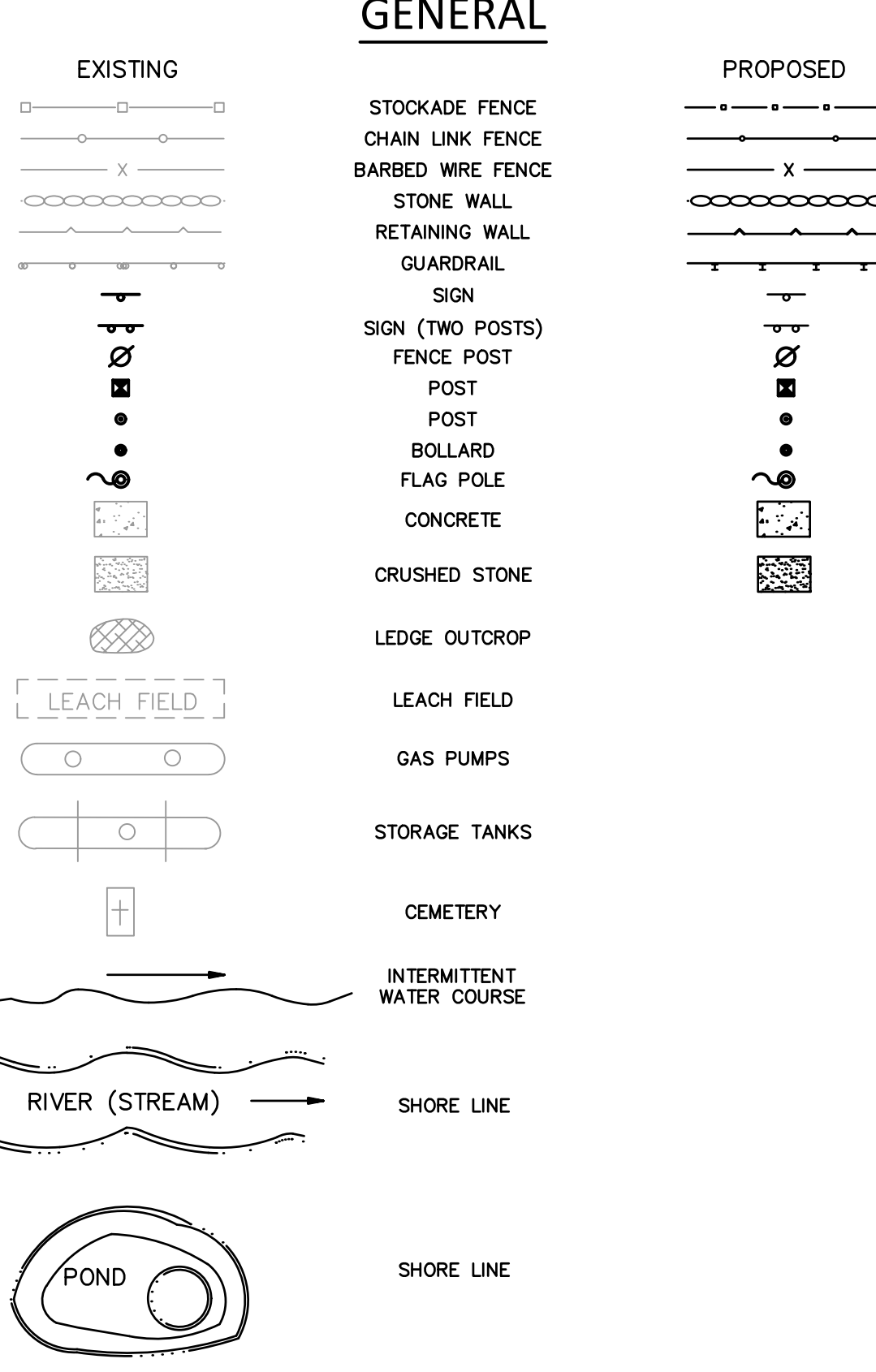
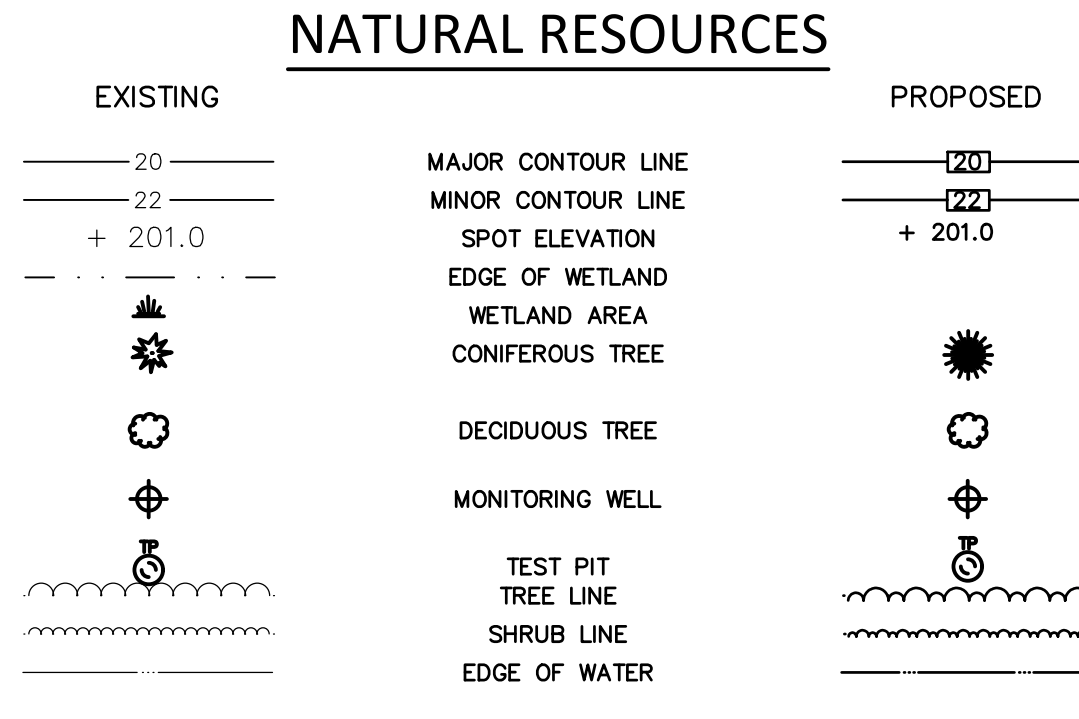
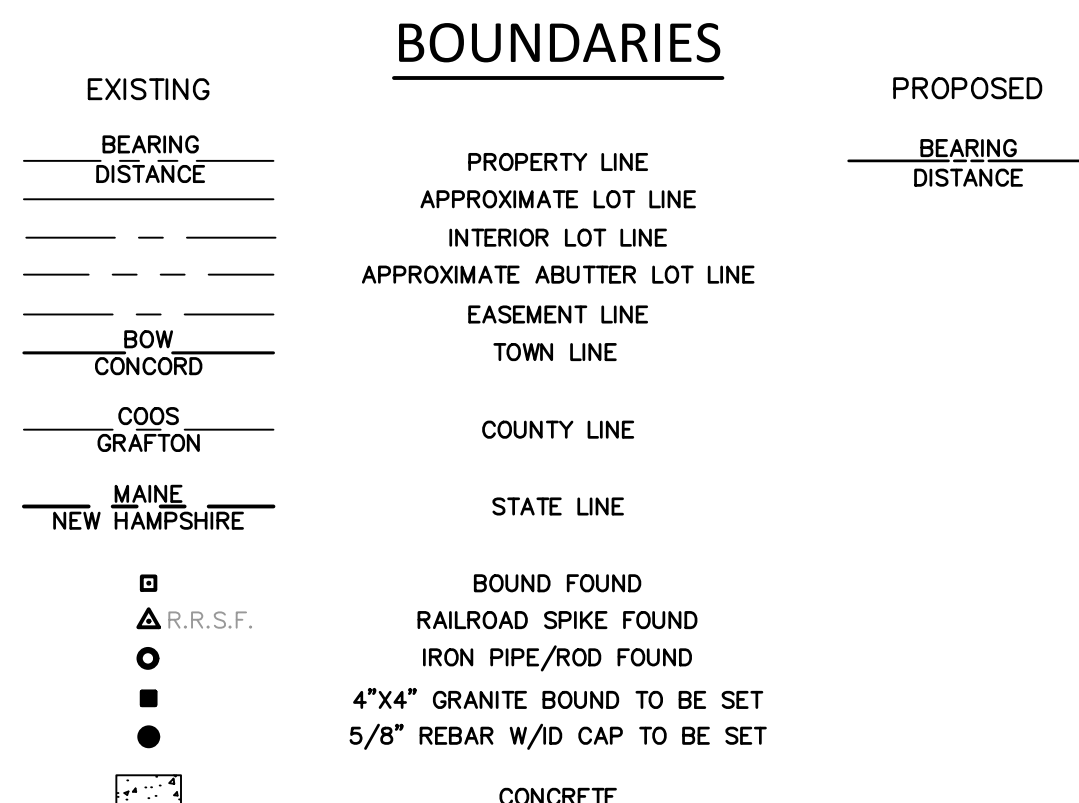
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 DATUM: HORZ.: NAD83 VERT.: NGVD29
 GRAPHIC SCALE

FUSS & O'NEILL
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 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
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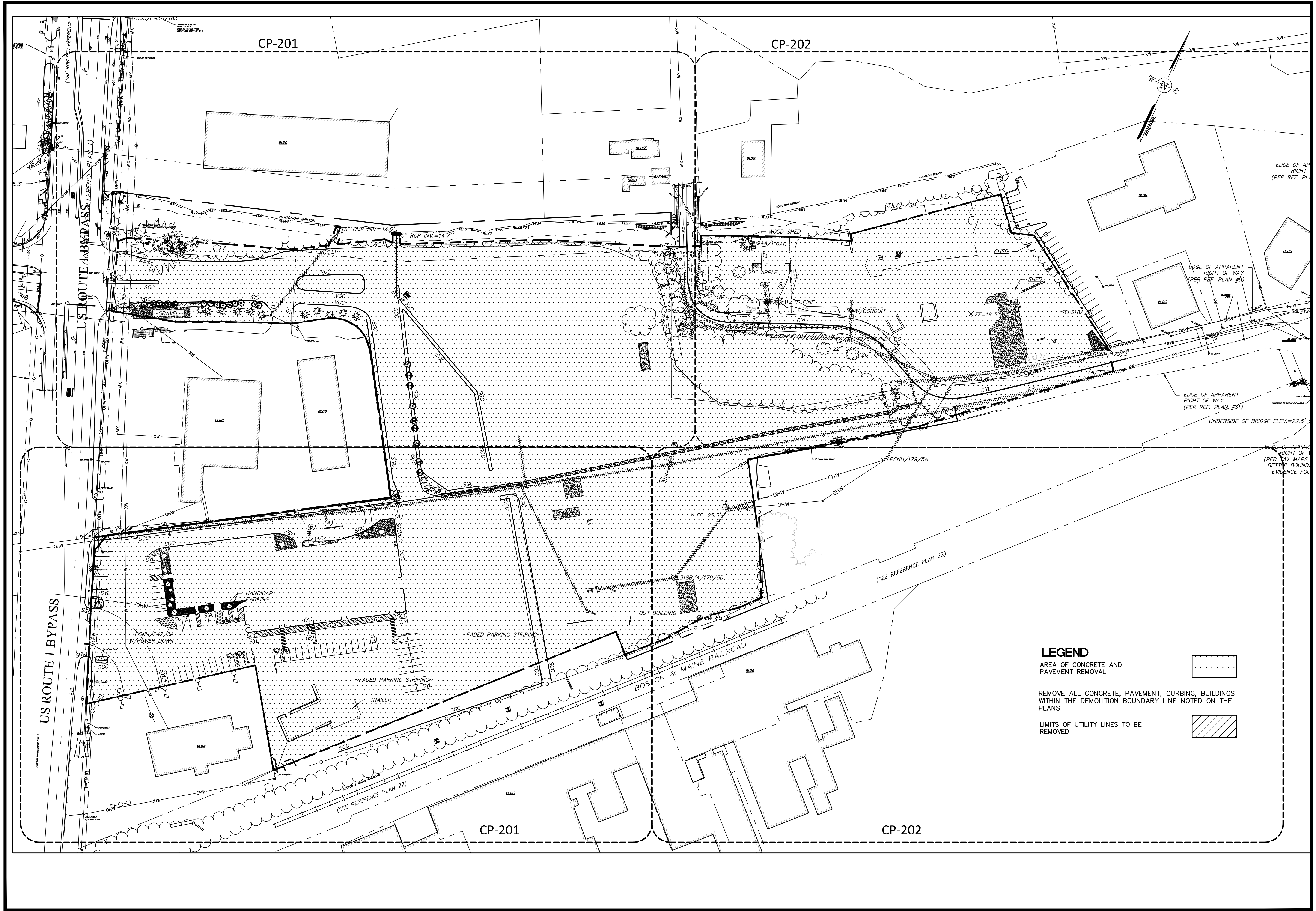
CATE STREET DEVELOPMENT, LLC
 GENERAL NOTES
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019

CN-001



SCALE:	HORIZ.:	VERT.:	DATUM:	HORIZ.:	NAD83	VERT.:	NGVD29	GRAPHIC SCALE
FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 www.fandoo.com								
CATE STREET DEVELOPMENT, LLC			LEGEND			CATE STREET/ WEST END YARDS		
						PORTSMOUTH NEW HAMPSHIRE		
PROJ. No.: 20180317.A10 DATE: 07/24/2019 <h2 style="text-align: center;">CN-002</h2>								



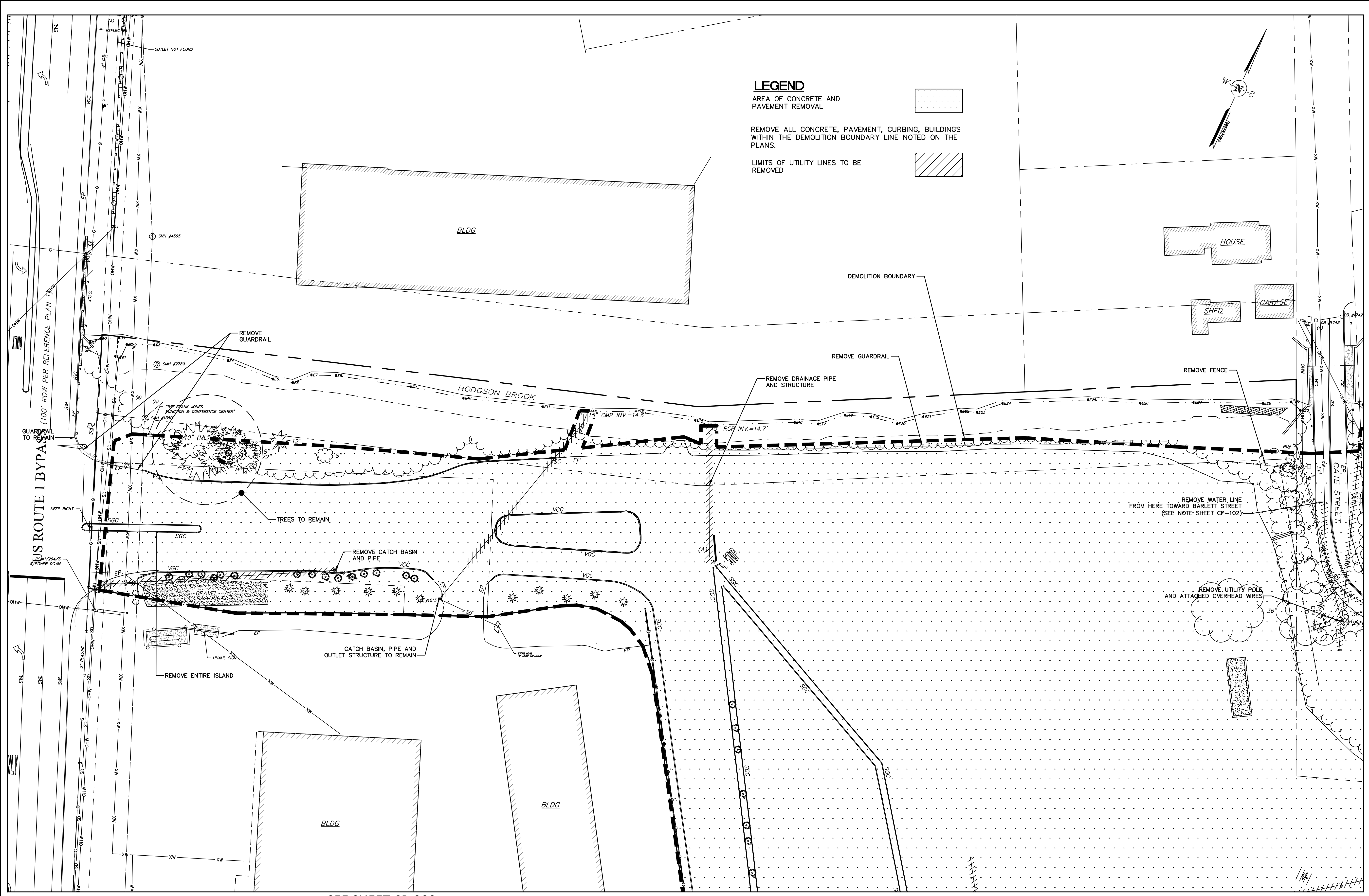
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AREA OF CONCRETE AND PAVEMENT REMOVAL

REMOVE ALL CONCRETE, PAVEMENT, CURBING, BUILDINGS WITHIN THE DEMOLITION BOUNDARY LINE NOTED ON THE PLANS.

LIMITS OF UTILITY LINES TO BE REMOVED

SCALE: HORIZ.: 1"=60' VERT.: 1"=60' DATUM: HORIZ.: NAD83 VERT.: NGVD29	
FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 207.563.0609 www.fandoo.com	
CATE STREET DEVELOPMENT, LLC OVERALL SITE PREPARATION PLAN CATE STREET/WEST END YARDS PORTSMOUTH NEW HAMPSHIRE	
PROJ. No.: 20180317.A10 DATE: 07/24/2019	
CP-200	



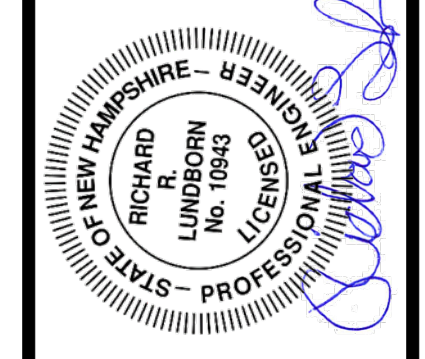
LEGEND

- AREA OF CONCRETE AND PAVEMENT REMOVAL
- REMOVE ALL CONCRETE, PAVEMENT, CURBING, BUILDINGS WITHIN THE DEMOLITION BOUNDARY LINE NOTED ON THE PLANS.
- LIMITS OF UTILITY LINES TO BE REMOVED

SEE SHEET CP-203

SEE SHEET CP-202

NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
1.			
2.			
3.	5/20/2019	TAC SUBMITTAL	JVA/DAD
4.	7/24/2019	TAC SUBMITTAL	JVA/DAD



SCALE:	HORIZ.: 1"=30'
	VERT.: 1"=30'
DATUM:	HORIZ.: NAD83
	VERT.: NGVD29
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	GRAPHIC SCALE

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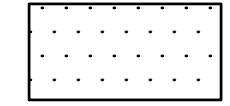
CATE STREET DEVELOPMENT, LLC
 SITE PREPARATION PLAN
 CATE STREET
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019

CP-201

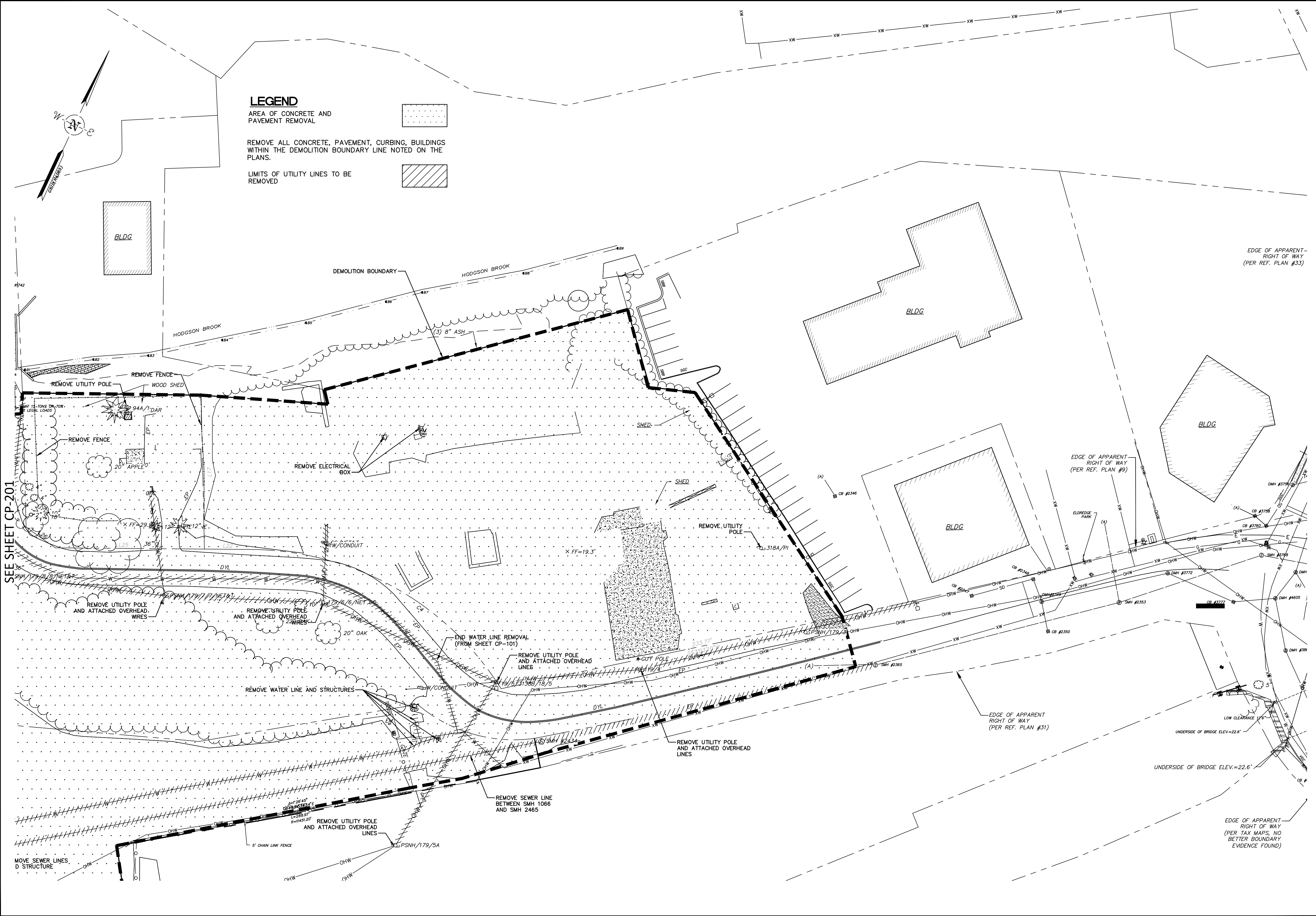
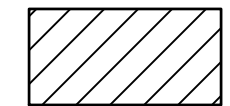
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AREA OF CONCRETE AND PAVEMENT REMOVAL



REMOVE ALL CONCRETE, PAVEMENT, CURBING, BUILDINGS WITHIN THE DEMOLITION BOUNDARY LINE NOTED ON THE PLANS.

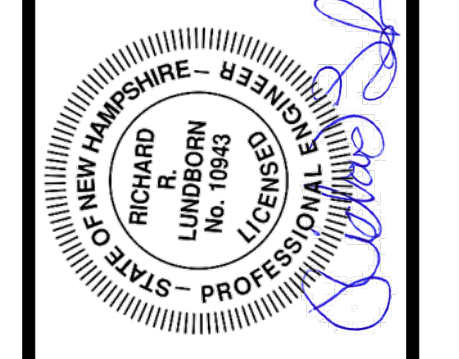
LIMITS OF UTILITY LINES TO BE REMOVED



SEE SHEET CP-201

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LAYER STATE: PLOTTER: DWG TO PDF.PC3 CTB File: FO.STB
MS VIEW:

NO.	DATE	DESCRIPTION	DESIGNER REVIEWER
4.	7/24/2019	TAC SUBMITTAL	JVA/DAD
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



SCALE:

HORIZ.: 1"=30'
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DATUM:

HORIZ.: NAD83
VERT.: NGVD29

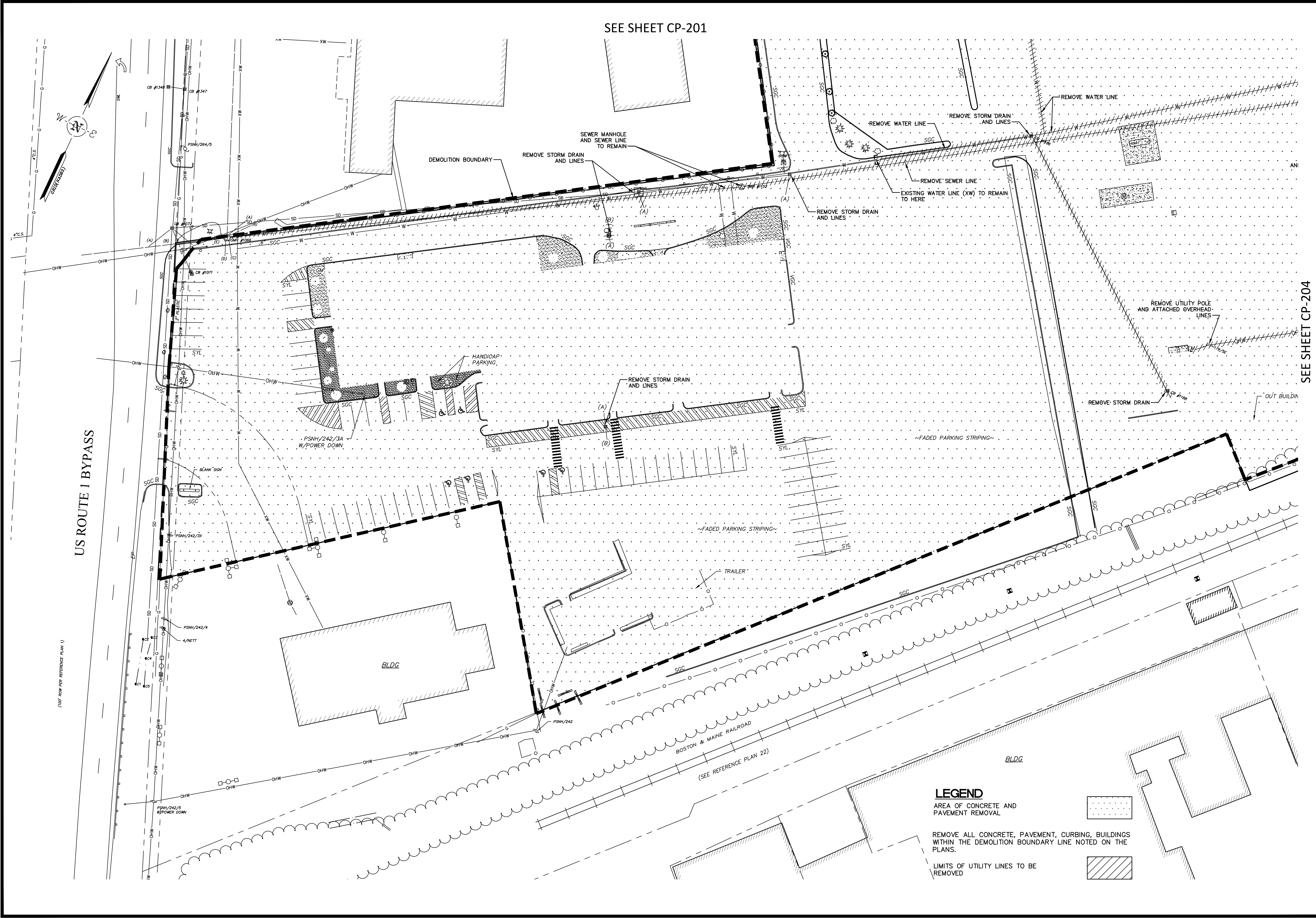
GRAPHIC SCALE

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CATE STREET DEVELOPMENT, LLC
SITE PREPARATION PLAN
 CATE STREET
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019

CP-202

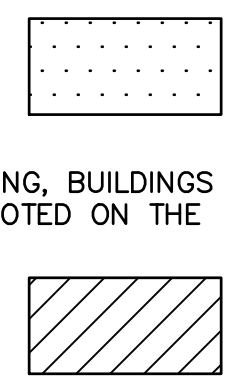


SEE SHEET CP-201

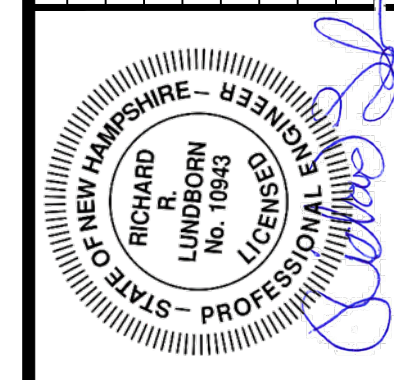
SEE SHEET CP-204

LEGEND

- AREA OF CONCRETE AND PAVEMENT REMOVAL
- REMOVE ALL CONCRETE, PAVEMENT, CURBING, BUILDINGS WITHIN THE DEMOLITION BOUNDARY LINE NOTED ON THE PLANS.
- LIMITS OF UTILITY LINES TO BE REMOVED



NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
1.		TAC SUBMITTAL	JVA/DAD
2.		TAC SUBMITTAL	JVA/DAD
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
4.	7/24/2019	TAC SUBMITTAL	JVA/DAD



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DATUM:	HORIZ.: NAD83
	VERT.: NGVD29
	GRAPHIC SCALE

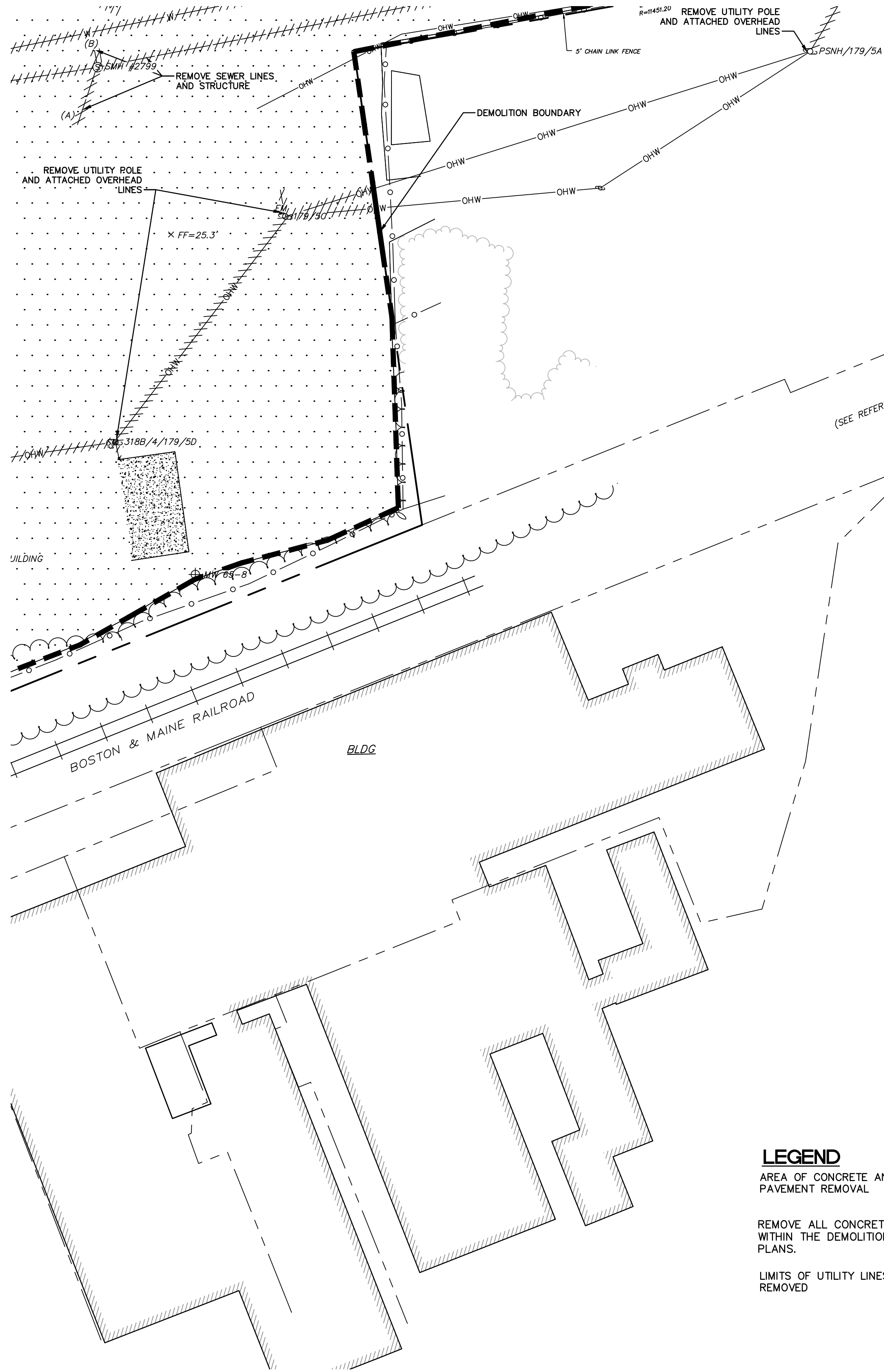
FUSS & O'NEILL
 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
 207.533.6609
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CATE STREET DEVELOPMENT, LLC
 SITE PREPARATION PLAN
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019
CP-203

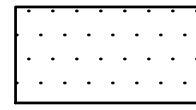
SEE SHEET CP203

SEE SHEET CP-202



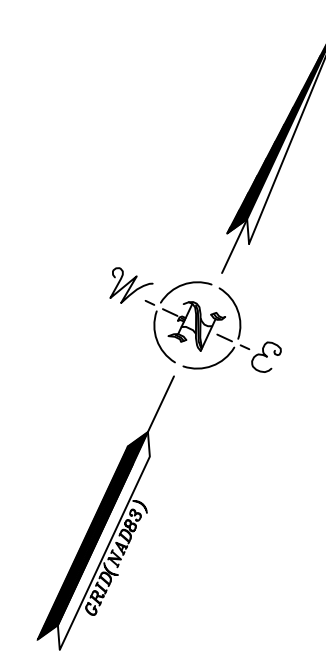
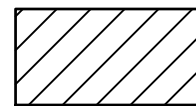
LEGEND

AREA OF CONCRETE AND PAVEMENT REMOVAL

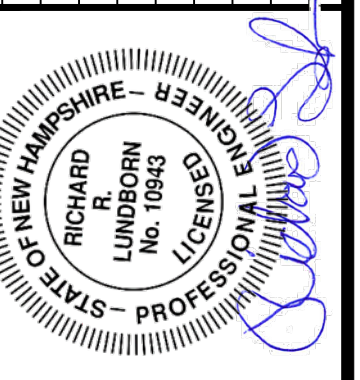


REMOVE ALL CONCRETE, PAVEMENT, CURBING, BUILDINGS WITHIN THE DEMOLITION BOUNDARY LINE NOTED ON THE PLANS.

LIMITS OF UTILITY LINES TO BE REMOVED



NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
4.	7/24/2019	TAC SUBMITTAL	JVA/DAD RRL
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL



SCALE:	HORIZ.: 1"=30'
	VERT.: 1"=30'
DATUM:	HORIZ.: NAD83
	VERT.: NGVD29
GRAPHIC SCALE	

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CATE STREET DEVELOPMENT, LLC
 SITE PREPARATION PLAN
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019
CP-204

SITE NOTES:

- TOTAL PARCEL AREA:
TAX MAP 163, LOT 33-12,230 SF (0.28 AC.)
TAX MAP 163, LOT 34-64,109 SF (1.47 AC.)
COMBINED AREA-451,572 SF (10.37 AC.)
TAX MAP 165, LOT 2
TAX MAP 172, LOT 1
TAX MAP 173, LOT 2
- ZONES: G-1-GATEWAY NEIGHBORHOOD MIXED USE
- DIMENSIONAL REQUIREMENTS, DEVELOPMENT SITE STANDARDS:

REQUIRED	PROPOSED
MIN. DEVELOPMENT AREA 20,000 sq.ft.	579,856 SF
MIN. SITE WIDTH 100 ft.	VARIABLES > 100 ft.
MIN. LOT DEPTH 100 ft.	VARIABLES > 100 ft.
MIN. PERIMETER BUFFER 75 ft. FROM RES. DIST., MIXED RES., OR CD4-L1 DIST.	N/A
MAX. DEV. BLOCK 800 ft. LENGTH, 2,200 LINEAR ft.	610 ft.
MIN. FRONTAGE 50 ft.	227 ft.
MAX. BUILDING HEIGHT 25-FT STEP BACK 45 ft.	45 ft.
MAX. BUILDING COVERAGE 70 %	18.6 %
MIN. OPEN SPACE 20 %	32.7 %
COMMUNITY SPACE ALL TYPES	SEE NOTE #6
WETLAND SETBACKS IMPERVIOUS COVER 100 ft.	104 ft. 390,471 sq. ft. (67.3%)

OWNER OF RECORD:
CATE STREET DEVELOPMENT, LLC
60 K STREET
BOSTON, MA 02127
RCRD BOOK5929, PAGE 109

4. PARKING CALCULATIONS PER 10.1112.30:

COMMERCIAL BUILDING	AREA	REQUIREMENT	REQUIRED	PROVIDED
EATING AND DRINKING	13,600SF	1/100 SF	136	---
RETAIL	5800SF	1/300 SF	20	---
OFFICE	15900SF	1/350 SF	46	---
SUB-TOTAL			202	170

RESIDENTIAL A AND B:	UNITS	REQUIREMENT	REQUIRED	PROVIDED
UNITS <750 SQ. FT.	144	1.3/UNIT	188	---
UNITS >750 SQ. FT.	106	1.3/UNIT	138	---
VISITOR	250	1.5 UNITS	50	---
SUB-TOTAL			332	294

TOWNHOMES:

UNITS >750 SQ. FT.	UNITS	REQUIREMENT	REQUIRED	PROVIDED
UNITS >750 SQ. FT.	23	1.3/UNIT	30	46
VISITOR	23	1.5 UNITS	5	5
SUB-TOTAL			35	51

(EACH TOWNHOME HAS A 2 CAR GARAGE)

5. SHARED PARKING CALCULATIONS: COLUMN C WEEKDAY EVENINGS, PER 10.1112.60:

COMMERCIAL BUILDING	REQUIRED	SHARED %	SHARED REQUIRED	PROVIDED
EATING AND DRINKING	136	100%	136	---
RETAIL	20	90%	18	---
OFFICE	46	20%	10	---
SUB-TOTAL			164	170
BICYCLE PARKING	1/10 PARKING		17	17
HANDICAP ACCESSIBLE = 6				

RESIDENTIAL A AND B:	REQUIRED	SHARED %	SHARED REQUIRED	PROVIDED
UNITS <750 SQ. FT.	144	100%	144	---
UNITS >750 SQ. FT.	106	100%	138	---
VISITOR	50	100%	50	---
SUB-TOTAL			332	294

BICYCLE PARKING IS INTERNAL
HANDICAP ACCESSIBLE = 8

TOWNHOMES:

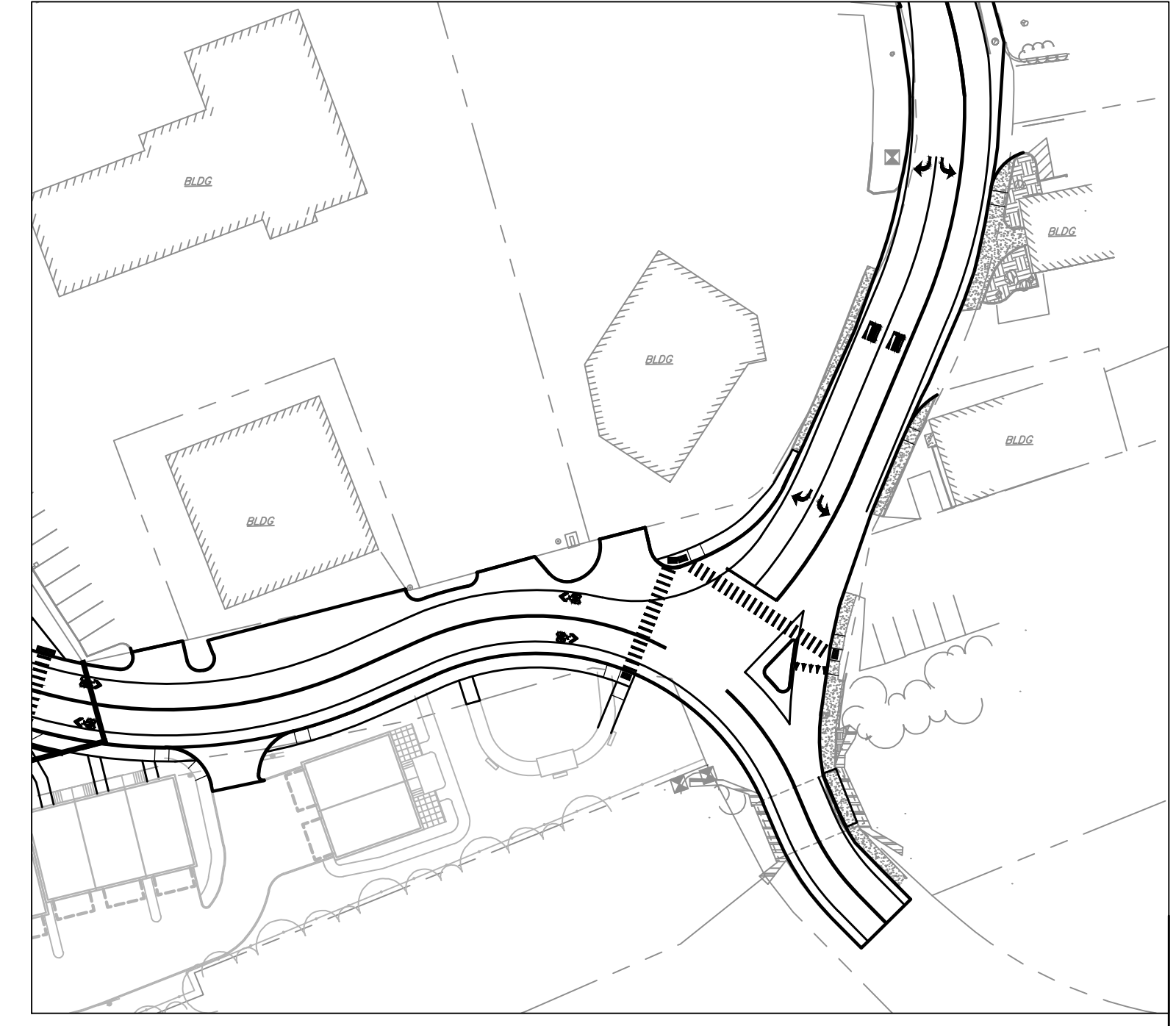
UNITS >750 SQ. FT.	REQUIRED	SHARED %	SHARED REQUIRED	PROVIDED
UNITS >750 SQ. FT.	36	100%	30	46
VISITOR	5	100%	5	5
SUB-TOTAL			35	51

BICYCLE PARKING IS INTERNAL
HANDICAP ACCESSIBLE = 8

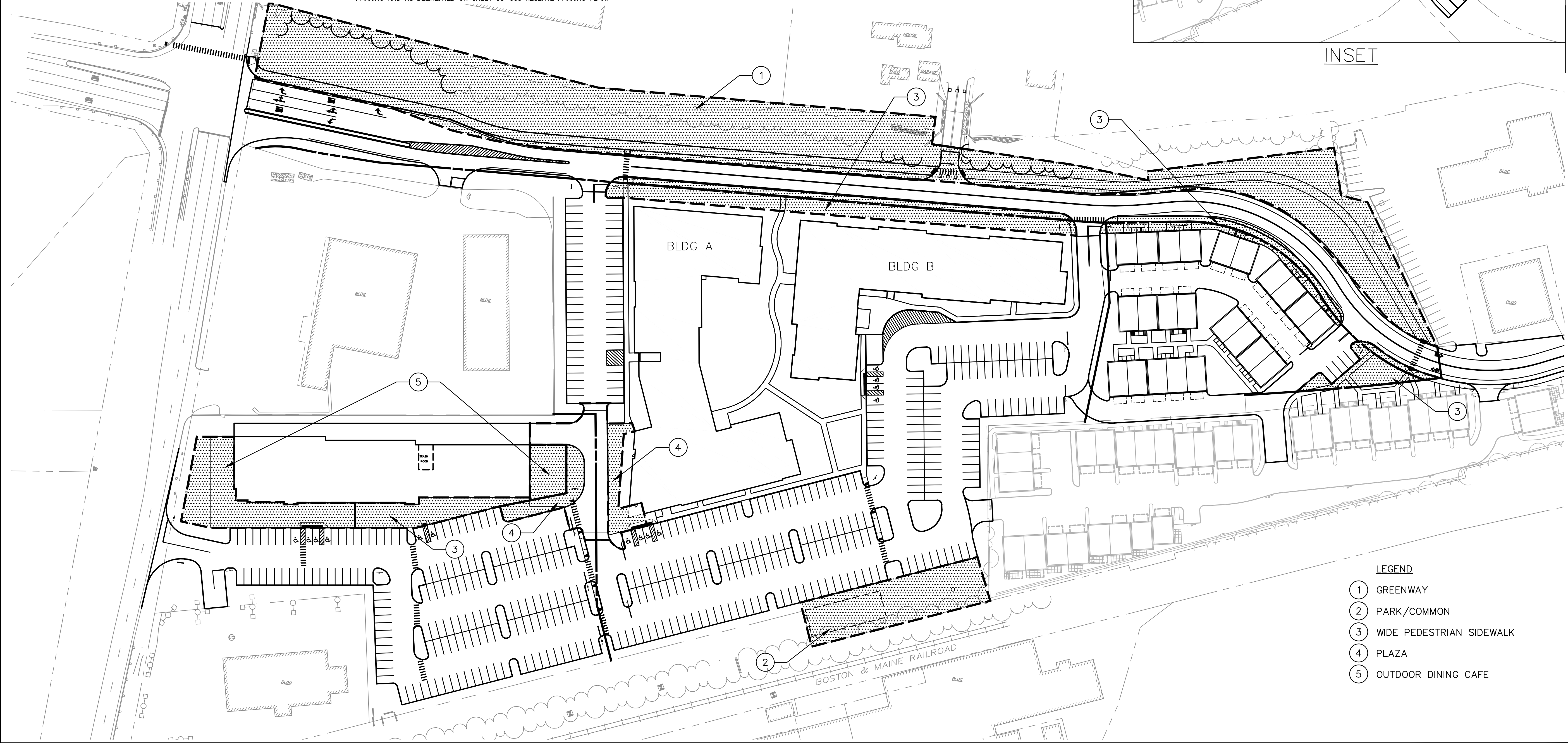
DEVELOPMENT SITE TOTAL:
REQUIRED 531 PROVIDED 531 *

* PROVIDED PARKING INCLUDES 16 SPACES PROVIDED UNDER SECTION 10.1112. 40 RESERVE PARKING AND AS DELINEATED ON SHEET CS-003 RESERVE PARKING PLAN.

- 6. COMMUNITY SPACE CALCULATION:**
- | TOTAL DEVELOPMENT SITE | REQUIRED | PROVIDED |
|--------------------------|------------------|------------------|
| GREENWAY | --- | 85,226 SF (15%) |
| PARK/COMMON | --- | 10,480 SF (2%) |
| WIDE PEDESTRIAN SIDEWALK | --- | 24,507 SF (4%) |
| PLAZA | --- | 4,666 SF (1%) |
| OUTDOOR DINING | --- | 11,330 SF (2%) |
| TOTAL | 115,964 SF (20%) | 136,209 SF (24%) |
-
- IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY.
 - ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REGULATIONS.
 - THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 - ALL IMPROVEMENTS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
 - SNOW SHALL BE STORED ON SITE IN DESIGNATED AREAS AS SHOWN ON CS-201 THRU CS-202. WHEN ON SITE STORAGE AREAS ARE EXCEEDED, SNOW SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

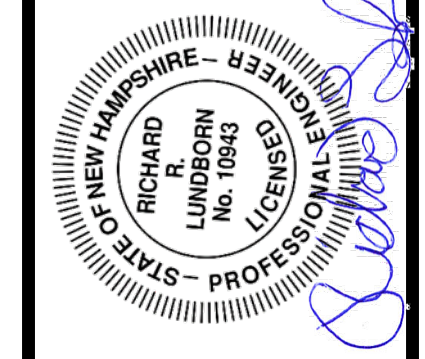


INSET



- LEGEND**
- ① GREENWAY
 - ② PARK/COMMON
 - ③ WIDE PEDESTRIAN SIDEWALK
 - ④ PLAZA
 - ⑤ OUTDOOR DINING CAFE

NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
4.	7/24/2019	TAC SUBMITTAL	JVA/DAD
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1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



SCALE:

HORIZ.: 1"=60'	VERT.: 1"=60'
DATUM: NAD83	
HORIZ.: NAVD88	VERT.: NAVD88

GRAPHIC SCALE: 0, 30, 60

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 5 FLETCHER STREET, SUITE 1
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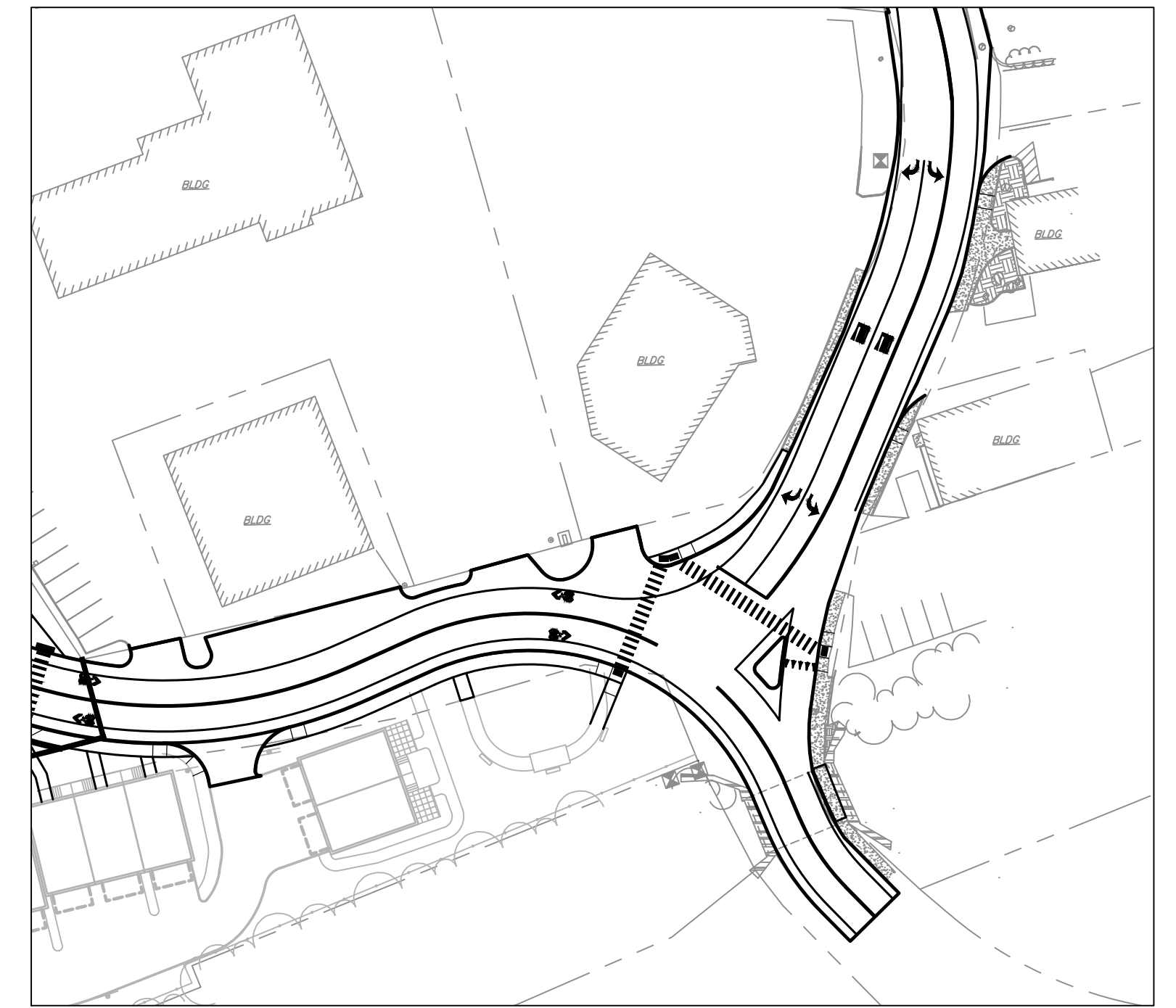
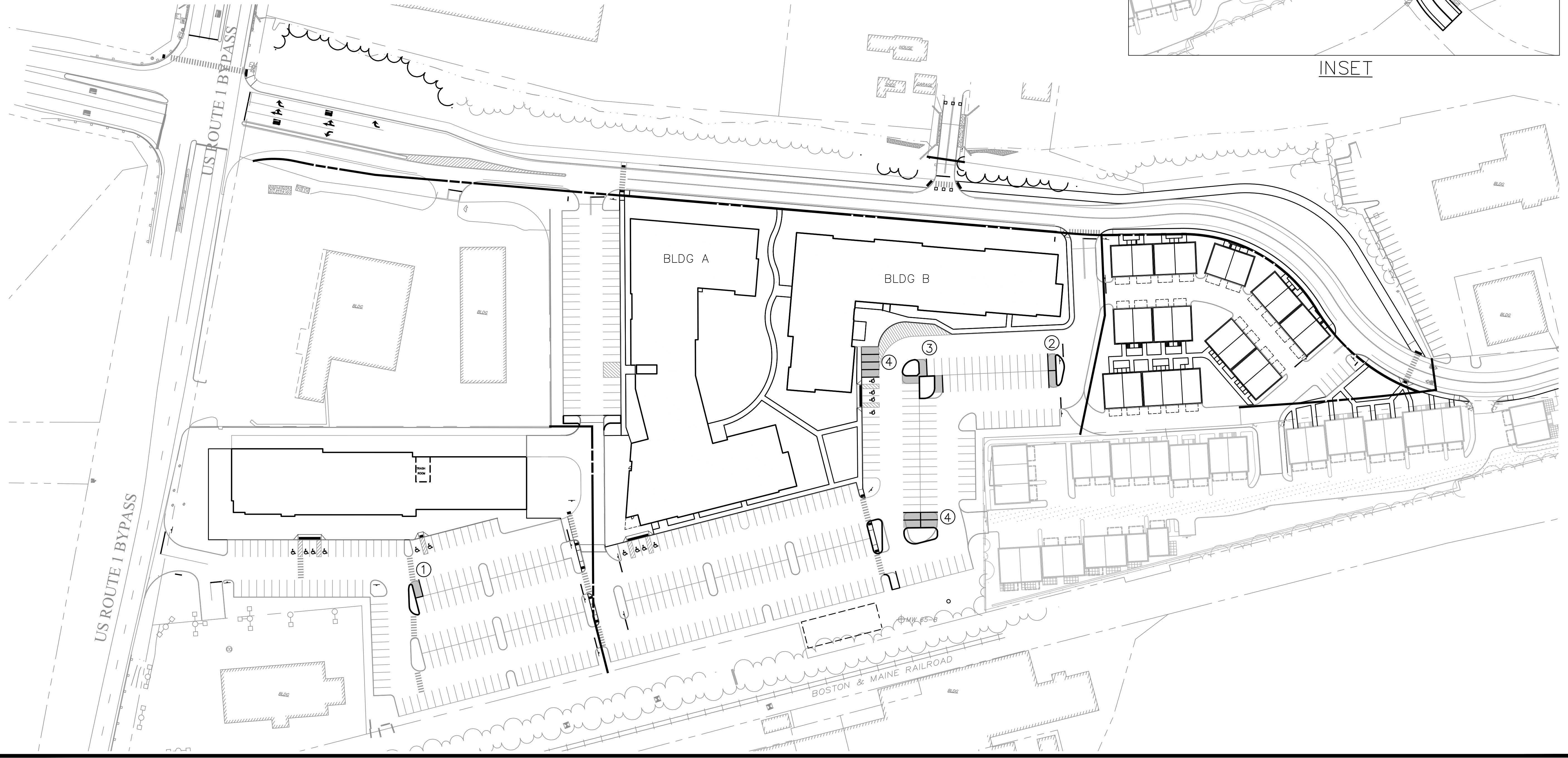
CATE STREET DEVELOPMENT, LLC
 DEVELOPMENT STANDARDS
 SITE PLAN
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
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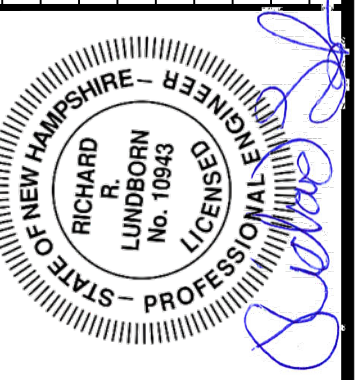
CS-002

RESERVE PARKING NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT AREAS OF RESERVE PARKING FOR THE WEST END YARDS DEVELOPMENT SITE.
2. IN THE EVENT THAT THE NEED ARISES, THE 16 PARKING SPACES DEPICTED CAN BE CONSTRUCTED WITHIN THE PARKING AREA.
3. EACH RESERVE PARKING SPACE IS 8.5-FT X 19-FT.
4. INTERNAL PARKING ISLANDS WILL NEED TO BE MODIFIED IN ORDER TO PROVIDE THESE SPACES SHOULD THE NEED ARISE. THE REVISED CONFIGURATION IS DEPICTED BELOW.



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3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
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1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



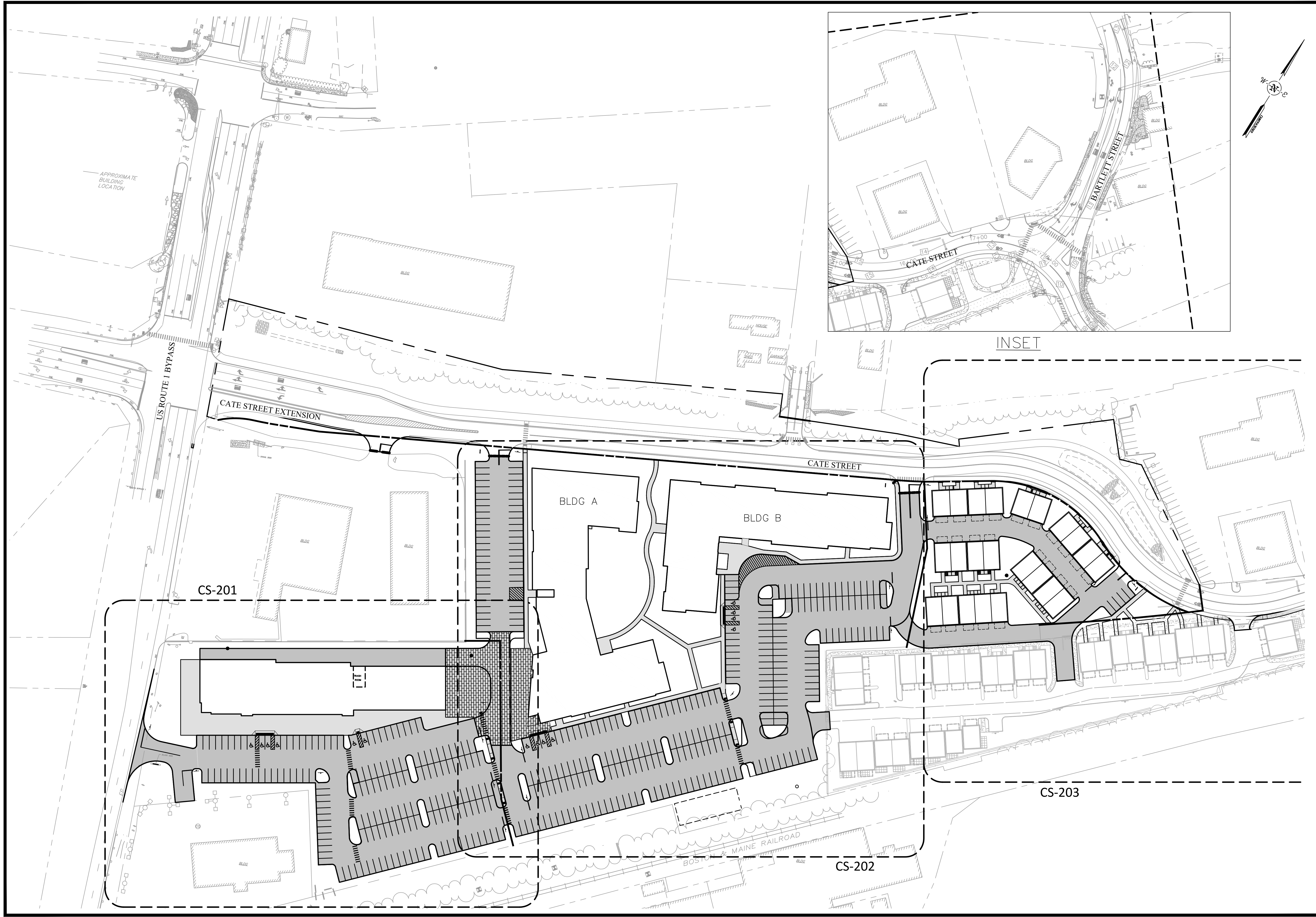
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GRAPHIC SCALE		

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CATE STREET DEVELOPMENT, LLC
 RESERVE PARKING
 SITE PLAN
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019
CS-003

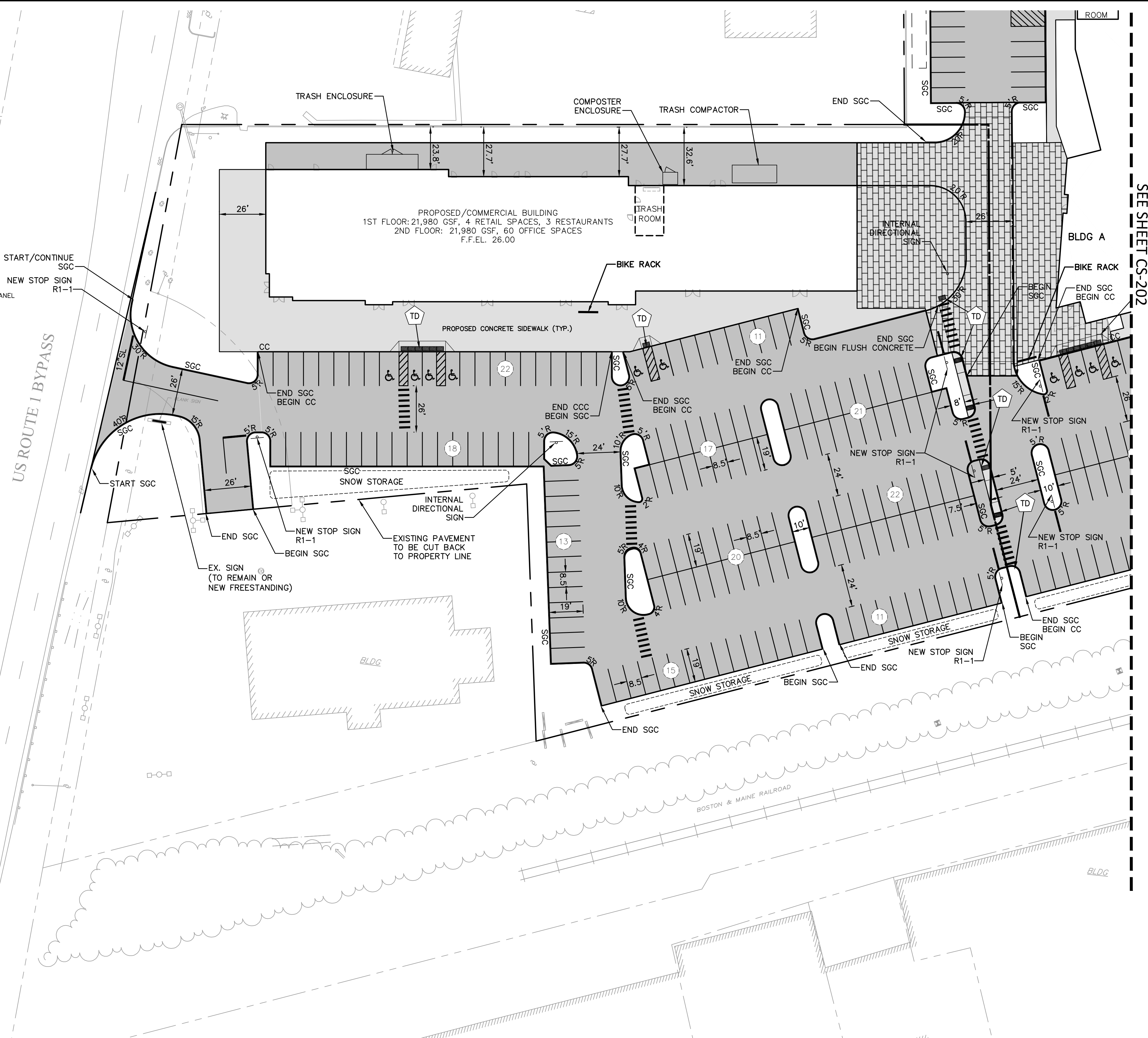
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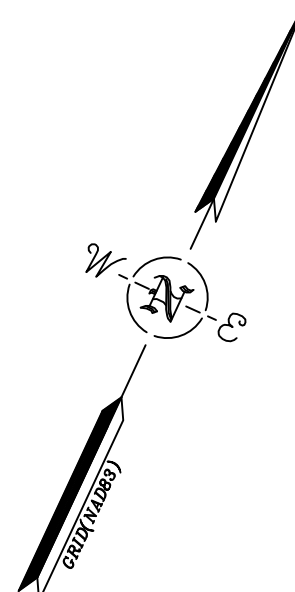
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<p>CATE STREET DEVELOPMENT, LLC</p>		<p>OVERALL SITE PLAN</p>		<p>NEW HAMPSHIRE</p>	
<p>CATE STREET/ WEST END YARDS</p>		<p>PORTSMOUTH</p>		<p>DESIGNER REVIEWER</p>	
<p>PROJ. No.: 20180317.A10 DATE: 07/24/2019</p>					
<p>CS-200</p>					

- TD PROPOSED TIPDOWN RAMP W/DETECTABLE WARNING PANEL
- VGC PROPOSED VERTICAL GRANITE CURB
- SGC PROPOSED SLOPED GRANITE CURB
- CC PROPOSED CONCRETE CURB
- MGC MOUNTABLE GRANITE CURB
- SSL SINGLE SOLID LINE (WHITE)
- DSL DOUBLE SOLID LINE (YELLOW)
- ROADWAY LIMIT

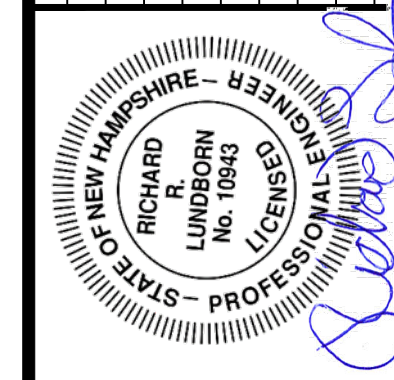
US ROUTE 1 BYPASS



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NO.	DATE	DESCRIPTION	DESIGNER/REVIEWER
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2	5/20/2019	TAC SUBMITTAL	RRL
3	6/20/2019	TAC SUBMITTAL	RRL
4	7/24/2019	TAC SUBMITTAL	RRL



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GRAPHIC SCALE		

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 SITE PLAN
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019
CS-201

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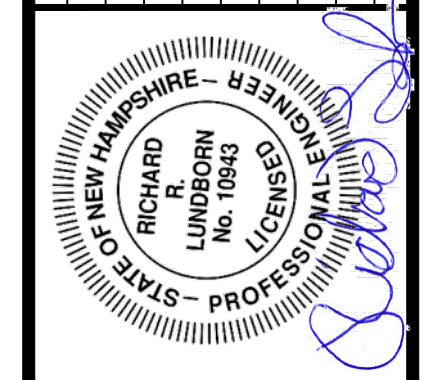
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- TD PROPOSED TIPDOWN RAMP W/DETECTABLE WARNING PANEL
- VGC PROPOSED VERTICAL GRANITE CURB
- SGC PROPOSED SLOPED GRANITE CURB
- CC PROPOSED CONCRETE CURB
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- DSL DOUBLE SOLID LINE (YELLOW)
- ROADWAY LIMIT

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4	7/24/2019	TAC SUBMITTAL	RRL

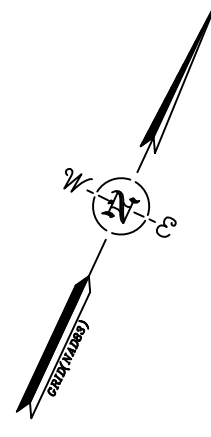


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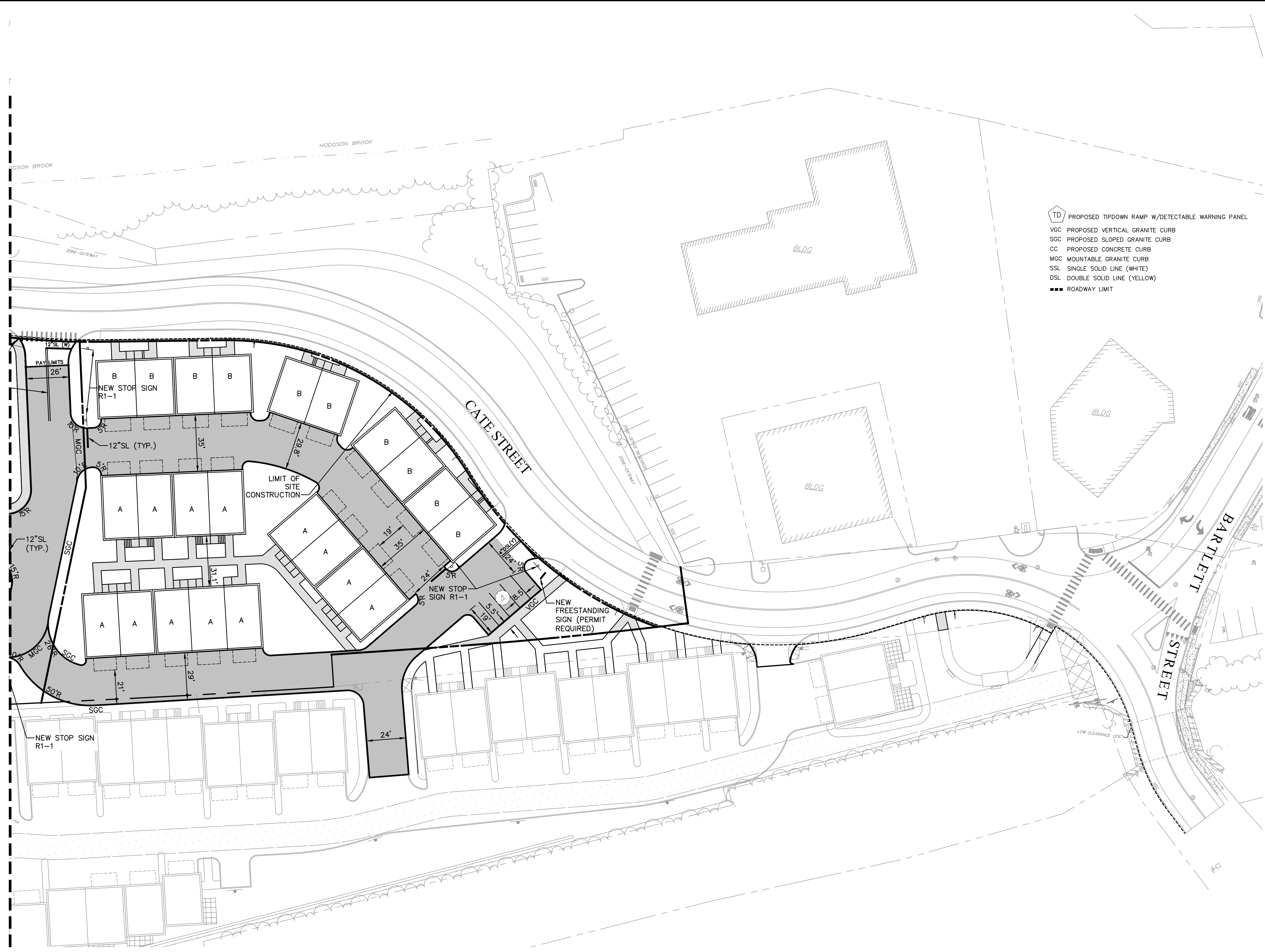
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CS-202

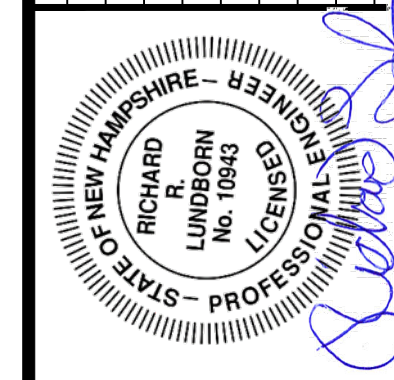


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- TD PROPOSED TIPDOWN RAMP W/DETECTABLE WARNING PANEL
- VGC PROPOSED VERTICAL GRANITE CURB
- SGC PROPOSED SLOPED GRANITE CURB
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- MGC MOUNTABLE GRANITE CURB
- SSL SINGLE SOLID LINE (WHITE)
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- ROADWAY LIMIT

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2.	5/20/2019	TAC SUBMITTAL	JVA/DAD
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



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DATUM:	HORIZ: NAD83	VERT: NGVD29

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DRAINAGE STRUCTURES 14-20	
STRUCTURE	STRUCTURE DETAILS
14	PROPOSED 4' DIA. DMH CATE STREET STA. 7+06.64, 0.00' RIM = 25.12 (15) 18" HDPE INV IN = 19.77 (11) 18" HDPE INV OUT = 19.27 CONSTRUCT 160 LF x 18" HDPE S = 0.50%
15	PROPOSED 4' DIA. DMH CATE STREET STA. 7+19.11, R 153.40' RIM = 27.20 (17) 12" HDPE INV IN = 20.64 (16) 12" HDPE INV IN = 20.64 (14) 18" HDPE INV OUT = 20.54 CONSTRUCT 150 LF x 18" HDPE S = 0.51%
16	PROPOSED 4' DIA. CB CATE STREET STA. 6+56.24, R 158.50' RIM = 25.50 (15) 12" HDPE INV OUT = 20.94 CONSTRUCT 60 LF x 12" HDPE S = 0.50%
17	PROPOSED 4' DIA. DMH CATE STREET STA. 7+24.26, R 216.88' RIM = 26.87 (18) 12" HDPE INV IN = 21.04 (15) 12" HDPE INV OUT = 20.94 CONSTRUCT 60 LF x 12" HDPE S = 0.50%
18	INFILTRATION BASIN #1 CATE STREET STA. 7+20.48, R 218.18' RIM = 26.83 (17) 12" HDPE INV OUT = 21.10 CONSTRUCT 3 LF x 12" HDPE S = 3.00%
19	PROPOSED 4' DIA. DMH CATE STREET STA. 6+77.32, R 263.18' RIM = 26.45 (20) 6" HDPE INV IN = 22.70 (18) 6" HDPE INV OUT = 22.60 CONSTRUCT 3 LF x 6" HDPE S = 3.00%
20	BUILDING A ROOF DRAIN CATE STREET STA. 6+61.12, R 268.76' RIM = 26.75 (19) 6" HDPE INV OUT = 22.78 CONSTRUCT 14 LF x 6" HDPE S = 0.50%

DRAINAGE STRUCTURES 21-60	
STRUCTURE	STRUCTURE DETAILS
21	PROPOSED 4' DIA. DMH CATE STREET STA. 15+33.70, R 3.16' RIM = 15.22 (22) 24" HDPE INV IN = 9.89 (E2349) 24" HDPE INV OUT = 9.79 CONSTRUCT 117 LF x 24" HDPE S = 4.94%
22	PROPOSED 4' DIA. DMH CATE STREET STA. 14+62.85, 0.00' RIM = 16.85 (23) 12" HDPE INV IN = 12.22 (25) 24" HDPE INV IN = 10.83 (24) 12" HDPE INV IN = 12.22 (21) 24" HDPE INV OUT = 10.73 CONSTRUCT 68 LF x 24" HDPE S = 1.25%
23	PROPOSED 4' DIA. CB CATE STREET STA. 14+72.18, R 15.00' RIM = 16.16 (22) 12" HDPE INV OUT = 12.36 CONSTRUCT 14 LF x 12" HDPE S = 1.00%
24	PROPOSED 4' DIA. CB CATE STREET STA. 14+45.15, R 38.08' RIM = 18.42 (22) 12" HDPE INV OUT = 13.00 CONSTRUCT 39 LF x 12" HDPE S = 2.00%
25	PROPOSED 4' DIA. DMH CATE STREET STA. 14+05.84, 0.00' RIM = 18.56 (26) 12" HDPE INV IN = 13.29 (40) 24" HDPE INV IN = 11.19 (27) 12" HDPE INV IN = 12.09 (28) 18" HDPE INV IN = 12.33 (22) 24" HDPE INV OUT = 11.09 CONSTRUCT 53 LF x 24" HDPE S = 0.50%
26	PROPOSED 4' DIA. CB CATE STREET STA. 13+95.87, R 15.00' RIM = 18.43 (25) 12" HDPE INV OUT = 14.00 CONSTRUCT 15 LF x 12" HDPE S = 5.00%
27	RG #1 OVERFLOW CATE STREET STA. 13+82.53, L 25.26' RIM = 0.00 (25) 12" HDPE INV OUT = 12.43 CONSTRUCT 30 LF x 12" HDPE S = 1.16%
28	PROPOSED 4' DIA. DMH CATE STREET STA. 14+20.46, R 49.41' RIM = 18.58 (29) 12" HDPE INV IN = 12.67 (35) 12" HDPE INV IN = 15.94 (25) 18" HDPE INV OUT = 12.57 CONSTRUCT 49 LF x 18" HDPE S = 0.50%
29	PROPOSED 4' DIA. DMH CATE STREET STA. 14+25.44, R 56.84' RIM = 18.58 (30) 12" HDPE INV IN = 14.30 (28) 12" HDPE INV OUT = 12.70 CONSTRUCT 6 LF x 12" HDPE S = 0.50%
30	DETENSION BASIN #1 CATE STREET STA. 14+25.15, R 60.82' RIM = 18.66 (29) 12" HDPE INV OUT = 14.34 CONSTRUCT 3 LF x 12" HDPE S = 2.00%
31	PROPOSED 4' DIA. DMH CATE STREET STA. 14+16.17, R 108.40' RIM = 19.02 (32) 12" HDPE INV IN = 14.50 (30) 12" HDPE INV OUT = 14.40 CONSTRUCT 3 LF x 12" HDPE S = 3.00%
32	PROPOSED 4' DIA. DMH CATE STREET STA. 14+10.35, R 108.11' RIM = 19.44 (34) 12" HDPE INV IN = 15.15 (33) 12" HDPE INV IN = 14.65 (31) 12" HDPE INV OUT = 14.55 CONSTRUCT 6 LF x 12" HDPE S = 1.00%

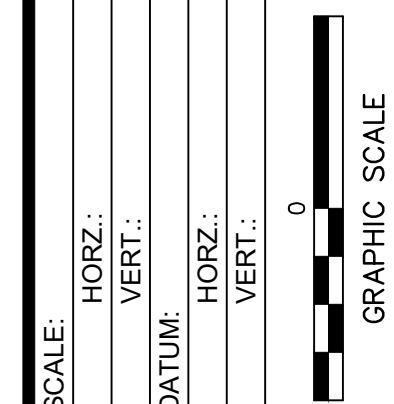
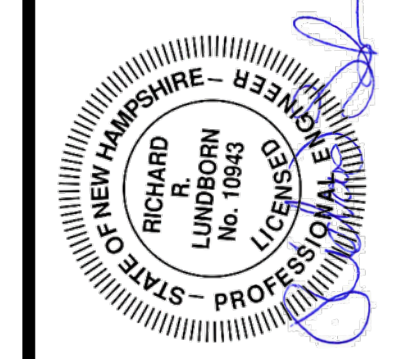
DRAINAGE STRUCTURES 21-60	
STRUCTURE	STRUCTURE DETAILS
33	PROPOSED 4' DIA. CB CATE STREET STA. 14+09.74, R 175.18' RIM = 18.56 (32) 12" HDPE INV OUT = 15.00 CONSTRUCT 64 LF x 12" HDPE S = 0.55%
34	PROPOSED 4' DIA. CB CATE STREET STA. 14+06.65, R 80.71' RIM = 20.03 (32) 12" HDPE INV OUT = 15.50 CONSTRUCT 24 LF x 12" HDPE S = 1.46%
35	PROPOSED 4' DIA. DMH CATE STREET STA. 13+98.74, R 85.71' RIM = 20.50 (36) 12" HDPE INV IN = 17.75 (28) 12" HDPE INV OUT = 16.15 CONSTRUCT 43 LF x 12" HDPE S = 0.50%
36	DETENTION BASIN #2 CATE STREET STA. 13+95.96, R 85.90' RIM = 20.55 (35) 12" HDPE INV OUT = 17.79 CONSTRUCT 3 LF x 12" HDPE S = 2.00%
37	PROPOSED 4' DIA. DMH CATE STREET STA. 12+91.07, R 86.88' RIM = 21.91 (39) 12" HDPE INV IN = 18.74 (38) 12" HDPE INV IN = 17.95 (36) 12" HDPE INV OUT = 17.85 CONSTRUCT 3 LF x 12" HDPE S = 3.00%
38	PROPOSED 4' DIA. CB CATE STREET STA. 12+76.81, R 83.04' RIM = 22.06 (37) 12" HDPE INV OUT = 18.00 CONSTRUCT 6 LF x 12" HDPE S = 1.00%
39	PROPOSED 4' DIA. CB CATE STREET STA. 11+90.18, R 84.80' RIM = 23.06 (37) 12" HDPE INV OUT = 19.00 CONSTRUCT 53 LF x 12" HDPE S = 0.50%
40	PROPOSED 4' DIA. DMH CATE STREET STA. 12+83.70, 0.00' RIM = 21.69 (41) 12" HDPE INV IN = 13.35 (42) 24" HDPE INV IN = 11.88 (25) 24" HDPE INV OUT = 11.78 CONSTRUCT 118 LF x 24" HDPE S = 0.50%
41	RG #2 OVERFLOW CATE STREET STA. 12+83.42, L 25.41' RIM = 17.89 (40) 12" HDPE INV OUT = 14.43 CONSTRUCT 22 LF x 12" HDPE S = 5.00%
42	PROPOSED 4' DIA. DMH CATE STREET STA. 11+85.44, 0.00' RIM = 22.86 (44) 24" HDPE INV IN = 12.45 (43) 12" HDPE INV IN = 13.35 (41) 24" HDPE INV OUT = 12.35 CONSTRUCT 94 LF x 24" HDPE S = 0.50%
43	PROPOSED 4' DIA. CB CATE STREET STA. 11+86.51, R 15.00' RIM = 22.42 (42) 12" HDPE INV OUT = 13.46 CONSTRUCT 12 LF x 12" HDPE S = 1.00%
44	PROPOSED 4' DIA. DMH CATE STREET STA. 10+48.39, 0.00' RIM = 24.89 (45) 12" HDPE INV IN = 18.50 (46) 12" HDPE INV IN = 18.50 (47) 18" HDPE INV IN = 13.61 (42) 24" HDPE INV OUT = 13.11 CONSTRUCT 133 LF x 24" HDPE S = 0.50%

DRAINAGE STRUCTURES 21-60	
STRUCTURE	STRUCTURE DETAILS
45	PROPOSED 4' DIA. CB CATE STREET STA. 10+33.32, R 11.00' RIM = 24.90 (44) 12" HDPE INV OUT = 19.50 CONSTRUCT 15 LF x 12" HDPE S = 6.82%
46	PROPOSED 4' DIA. CB CATE STREET STA. 10+33.32, L 11.00' RIM = 24.90 (44) 12" HDPE INV OUT = 19.50 CONSTRUCT 15 LF x 12" HDPE S = 6.82%
47	PROPOSED 4' DIA. DMH CATE STREET STA. 10+61.58, R 122.45' RIM = 25.93 (48) 18" HDPE INV IN = 14.31 (48) 6" HDPE INV IN = 14.21 CONSTRUCT 120 LF x 18" HDPE S = 0.50%
48	PROPOSED 4' DIA. DMH CATE STREET STA. 10+25.80, R 127.22' RIM = 27.00 (57) 12" HDPE INV IN = 15.00 (49) 12" HDPE INV IN = 15.00 (47) 18" HDPE INV OUT = 14.48 CONSTRUCT 35 LF x 18" HDPE S = 0.50%
49	PROPOSED 4' DIA. DMH CATE STREET STA. 10+27.11, R 137.45' RIM = 26.25 (50) 12" HDPE INV IN = 18.55 (48) 12" HDPE INV OUT = 15.10 CONSTRUCT 7 LF x 12" HDPE S = 1.58%
50	INFILTRATION BASIN #2 CATE STREET STA. 10+27.61, R 141.41' RIM = 26.15 (49) 12" HDPE INV OUT = 18.60 CONSTRUCT 3 LF x 12" HDPE S = 2.50%
51	PROPOSED 4' DIA. DMH CATE STREET STA. 9+62.84, R 234.29' RIM = 25.42 (52) 18" HDPE INV IN = 18.92 (50) 18" HDPE INV OUT = 18.92 CONSTRUCT 3 LF x 18" HDPE S = 0.00%
52	PROPOSED 4' DIA. DMH CATE STREET STA. 9+63.98, R 243.22' RIM = 25.49 (54) 18" HDPE INV IN = 19.07 (53) 12" HDPE INV IN = 19.95 (51) 18" HDPE INV OUT = 18.97 CONSTRUCT 6 LF x 18" HDPE S = 1.00%
53	PROPOSED 4' DIA. CB CATE STREET STA. 10+53.01, R 233.88' RIM = 23.88 (52) 12" HDPE INV OUT = 20.38 CONSTRUCT 86 LF x 12" HDPE S = 0.50%
54	PROPOSED 4' DIA. DMH CATE STREET STA. 9+36.44, R 333.81' RIM = 24.55 (55) 12" HDPE INV IN = 20.02 (56) 12" HDPE INV IN = 20.02 (52) 18" HDPE INV OUT = 19.52 CONSTRUCT 91 LF x 18" HDPE S = 0.50%
55	PROPOSED 4' DIA. CB CATE STREET STA. 9+38.27, R 381.51' RIM = 23.74 (54) 12" HDPE INV OUT = 20.24 CONSTRUCT 44 LF x 12" HDPE S = 0.50%
56	PROPOSED 4' DIA. CB CATE STREET STA. 8+64.09, R 340.65' RIM = 25.36 (54) 12" HDPE INV OUT = 20.86 CONSTRUCT 69 LF x 12" HDPE S = 1.22%

DRAINAGE STRUCTURES 21-60	
STRUCTURE	STRUCTURE DETAILS
57	PROPOSED 4' DIA. DMH CATE STREET STA. 8+63.04, R 147.97' RIM = 26.47 (58) 12" HDPE INV IN = 18.55 (48) 12" HDPE INV OUT = 15.80 CONSTRUCT 161 LF x 12" HDPE S = 0.50%
58	INFILTRATION BASIN #3 CATE STREET STA. 8+63.54, R 151.94' RIM = 26.46 (57) 12" HDPE INV OUT = 18.60 CONSTRUCT 3 LF x 12" HDPE S = 2.50%
59	PROPOSED 4' DIA. DMH CATE STREET STA. 8+63.63, R 265.26' RIM = 25.90 (60) 6" HDPE INV IN = 20.20 (58) 6" HDPE INV OUT = 20.10 CONSTRUCT 3 LF x 6" HDPE S = 3.00%
60	BUILDING B ROOF DRAIN CATE STREET STA. 7+56.79, R 220.50' RIM = 27.25 (59) 6" HDPE INV OUT = 20.78 CONSTRUCT 112 LF x 6" HDPE S = 0.51%

DRAINAGE STRUCTURES 64-73	
STRUCTURE	STRUCTURE DETAILS
E1071	EXISTING CB RIM = 22.29 (62) 12" HDPE INV IN = 17.60 (E1072) 12" HDPE INV OUT = 17.50 EXISTING 28 LF x 12" HDPE S=0.72%
E1072	EXISTING DMH RIM = 23.71 (E1071) 12" HDPE INV IN = 17.30 (64) 12" HDPE INV IN = 17.60
64	COMMERCIAL BUILDING ROOF DRAIN RIM = 19.05 (E1072) 12" HDPE INV OUT = 17.94 CONSTRUCT 69 LF x 12" HDPE S=0.50%
65	WATER QUALITY STRUCTURE RIM = 19.26 (66) 12" HDPE INV IN = 18.15 (E1071) 12" HDPE INV OUT = 18.05 CONSTRUCT 90 LF x 12" HDPE S=0.49%
66	PROPOSED 4' DIA. DMH RIM = 25.40 (67) 12" HDPE INV IN = 18.28 (65) 12" HDPE INV OUT = 18.18 CONSTRUCT 3 LF x 12" HDPE S=0.60%
67	PROPOSED 4' DIA. DMH RIM = 24.59 (69) 12" HDPE INV IN = 19.12 (65) 12" HDPE INV IN = 19.12 (66) 12" HDPE INV OUT = 19.02 CONSTRUCT 148 LF x 12" HDPE S=0.49%
68	PROPOSED 4' DIA. CB RIM = 23.22 (67) 12" HDPE INV OUT = 19.37 CONSTRUCT 49 LF x 12" HDPE S=0.50%
69	PROPOSED 4' DIA. DMH RIM = 24.32 (68) 12" HDPE INV IN = 20.57 (70) 12" HDPE INV IN = 20.57 (67) 12" HDPE INV OUT = 20.47 CONSTRUCT 270 LF x 12" HDPE S=0.50%
70	PROPOSED 4' DIA. CB RIM = 24.24 (69) 12" HDPE INV OUT = 20.60 CONSTRUCT 4 LF x 12" HDPE S=1.02%
71	PROPOSED 4' DIA. DMH RIM = 25.15 (72) 12" HDPE INV IN = 20.89 (73) 12" HDPE INV IN = 20.89 (69) 12" HDPE INV OUT = 20.79 CONSTRUCT 45 LF x 12" HDPE S=0.50%
72	PROPOSED 4' DIA. CB RIM = 25.12 (71) 12" HDPE INV OUT = 20.93 CONSTRUCT 8 LF x 12" HDPE S=0.50%
73	PROPOSED 4' DIA. CB RIM = 25.17 (71) 12" HDPE INV OUT = 21.15 CONSTRUCT 52 LF x 12" HDPE S=0.50%

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1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



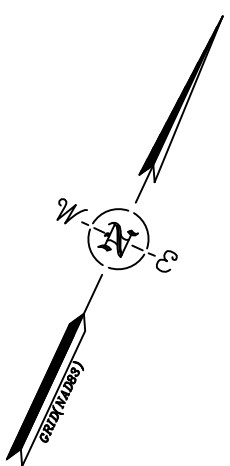
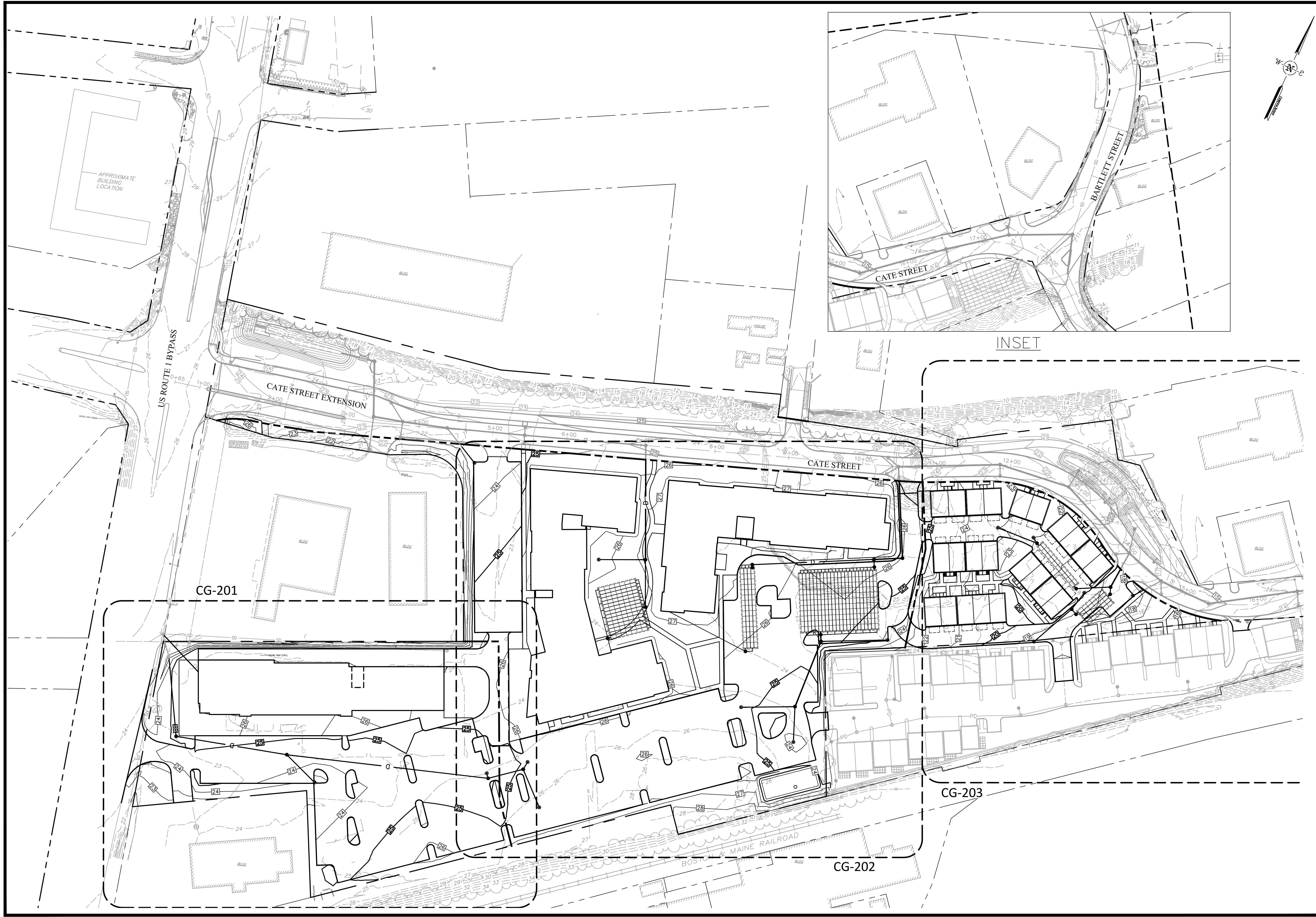
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CATE STREET DEVELOPMENT, LLC
 SITE DRAINAGE
 STRUCTURE TABLE
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

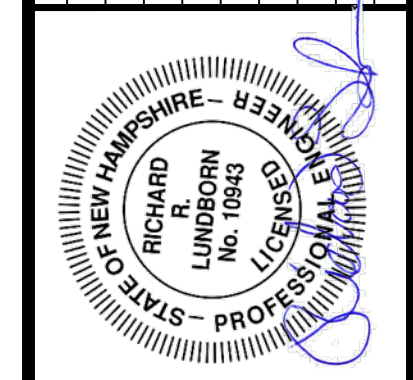
PROJ. No.: 20180317.A10
 DATE: 07/24/2019

CG-001

LIGHT TABLE ENTRIES FROM ROADWAY PLAN PROVIDED FOR REFERENCE ONLY



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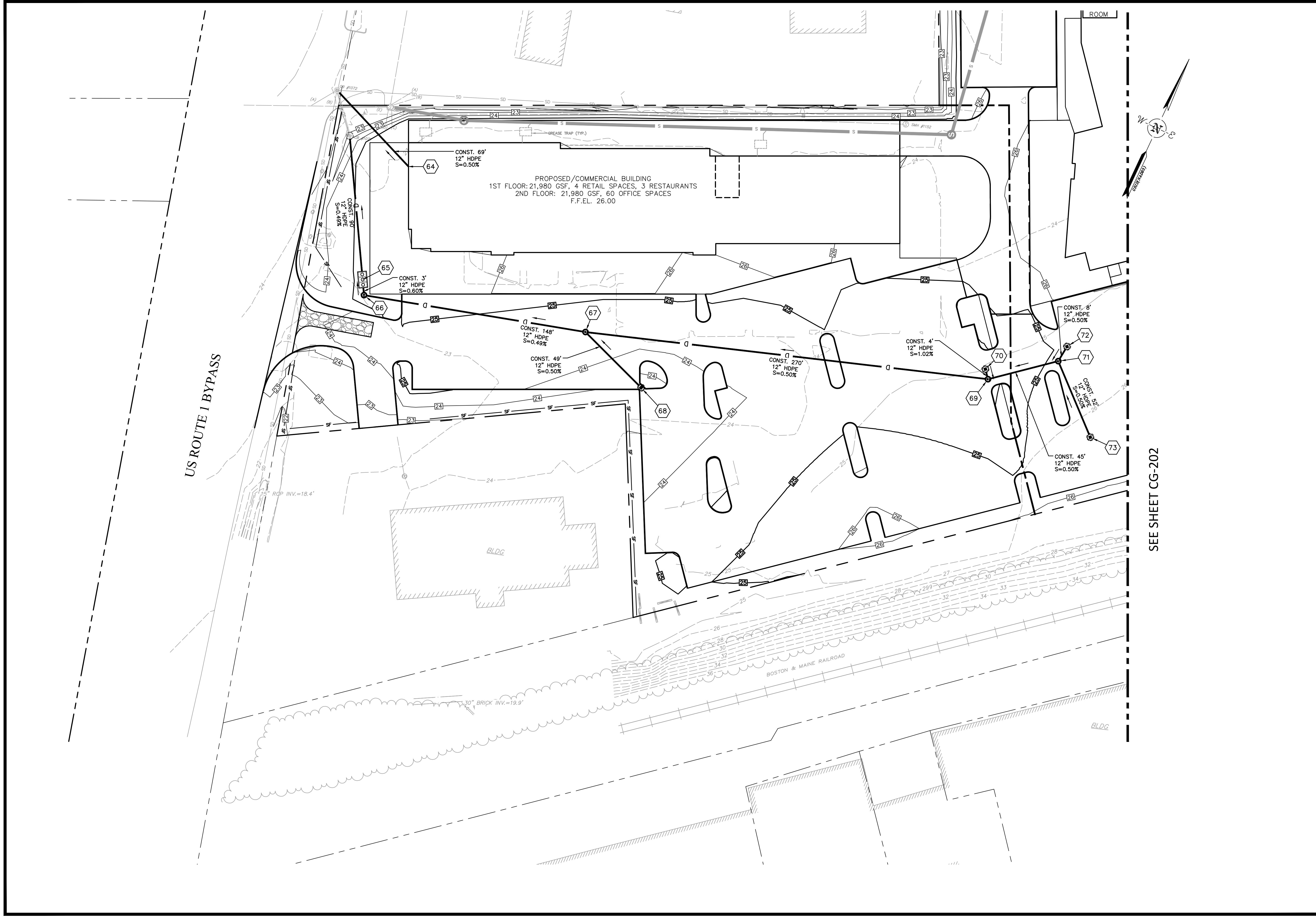


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DATUM:	HORIZ.: NAD83
	VERT.: NGVD29
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	GRAPHIC SCALE

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CATE STREET DEVELOPMENT, LLC
**GRADING, DRAINAGE &
 EROSION CONTROL PLAN**
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019
CG-200



SEE SHEET CG-202

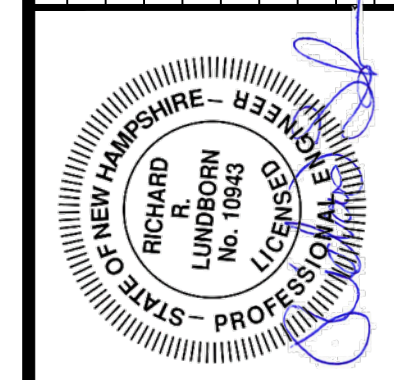
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CATE STREET DEVELOPMENT, LLC GRADING, DRAINAGE & EROSION CONTROL PLAN CATE STREET/ WEST END YARDS PORTSMOUTH	NEW HAMPSHIRE																				
PROJ. No.: 20180317.A10 DATE: 07/24/2019	<table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DESIGNER/REVIEWER</th> </tr> </thead> <tbody> <tr> <td>4.</td> <td>7/24/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>3.</td> <td>6/20/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>2.</td> <td>5/20/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>1.</td> <td>3/18/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> </tbody> </table>	No.	DATE	DESCRIPTION	DESIGNER/REVIEWER	4.	7/24/2019	TAC SUBMITTAL	JVA/DAD RRL	3.	6/20/2019	TAC SUBMITTAL	JVA/DAD RRL	2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL	1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL
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No.	DATE	DESCRIPTION	DESIGNER/REVIEWER
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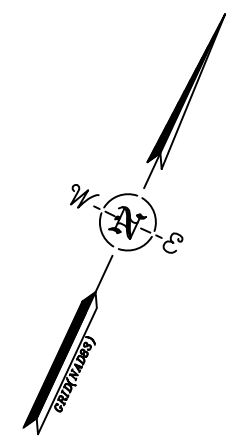
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 CATE STREET/WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

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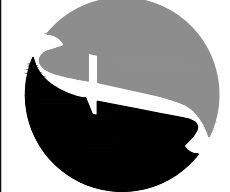
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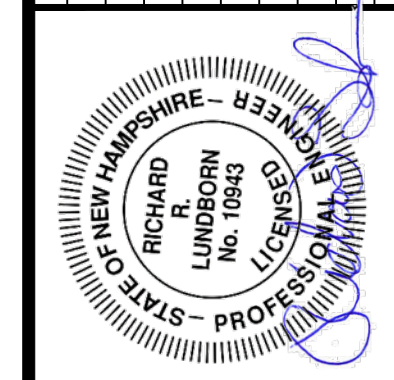
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1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL

SEWER SYSTEM	
STRUCTURE	STRUCTURE DETAILS
4	PROPOSED 4' DIA. SEWER MANHOLE CATE STREET STA. 11+93.37, R 9.16' RIM = 22.57 (5) 24" PVC INV IN = 9.87 (12) 8" PVC INV IN = 11.10 (3) 24" PVC INV OUT = 9.77 CONSTRUCT 83 LF x 24" PVC S=0.0008
12	PROPOSED 4' DIA. SEWER MANHOLE CATE STREET STA. 12+03.73, R 73.29' RIM = 23.20 (13) 8" PVC INV IN = 11.50 (4) 8" PVC INV OUT = 11.40 CONSTRUCT 61 LF x 8" PVC S=0.0050
13	PROPOSED 4' DIA. SEWER MANHOLE CATE STREET STA. 12+50.11, R 146.52' RIM = 20.94 (12) 8" PVC INV OUT = 11.86 CONSTRUCT 72 LF x 8" PVC S=0.0050

LIGHT TABLE ENTRIES FROM ROADWAY
 PLAN PROVIDED FOR REFERENCE ONLY

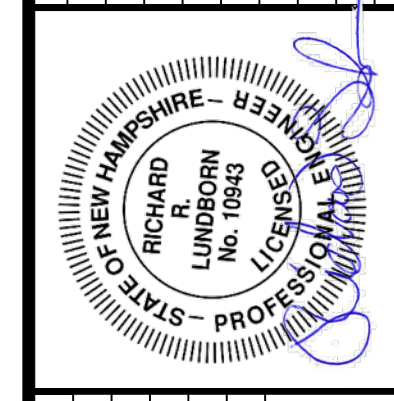
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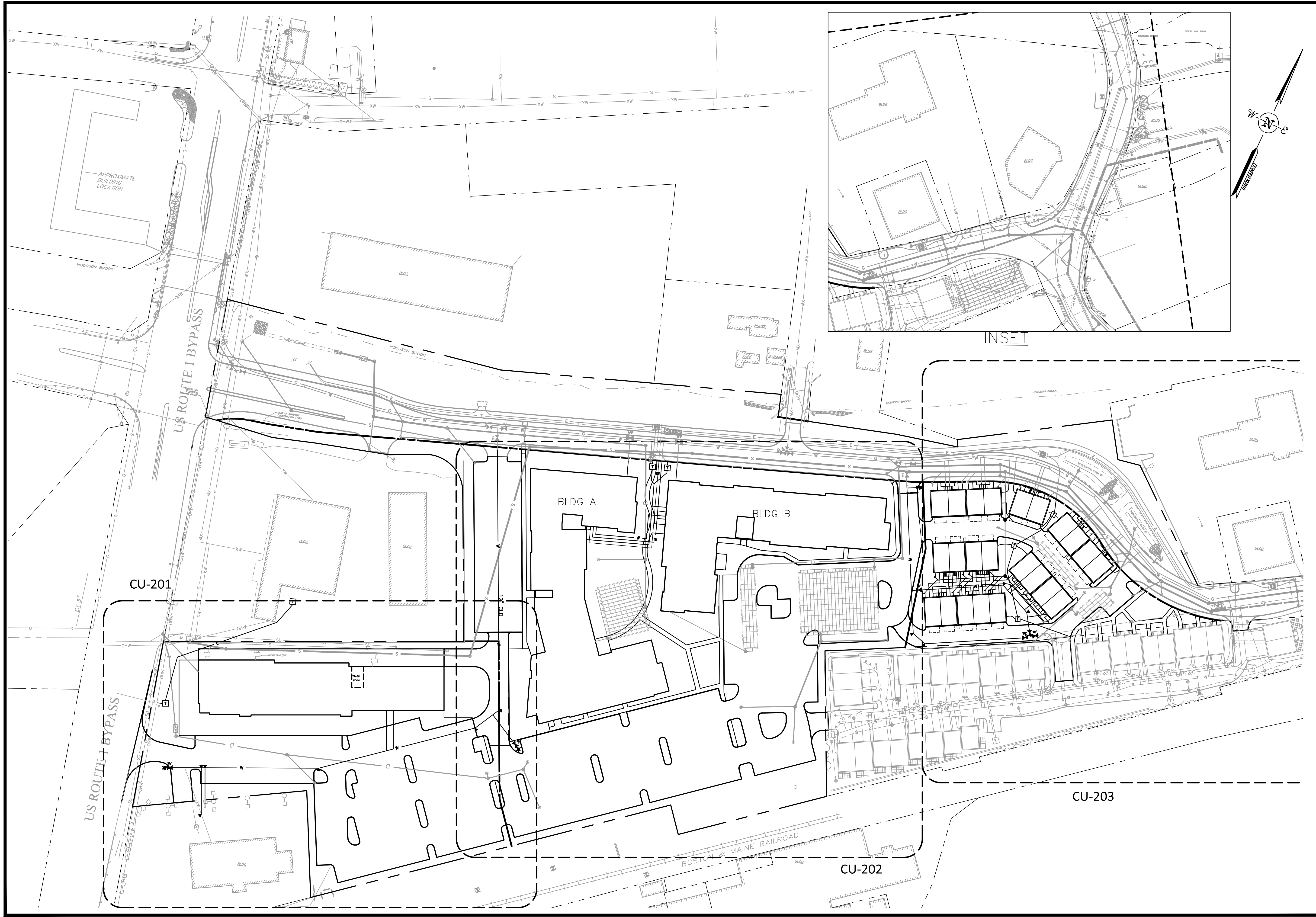
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 SITE SEWER
 STRUCTURE TABLE
 CATE STREET/WEST END YARDS
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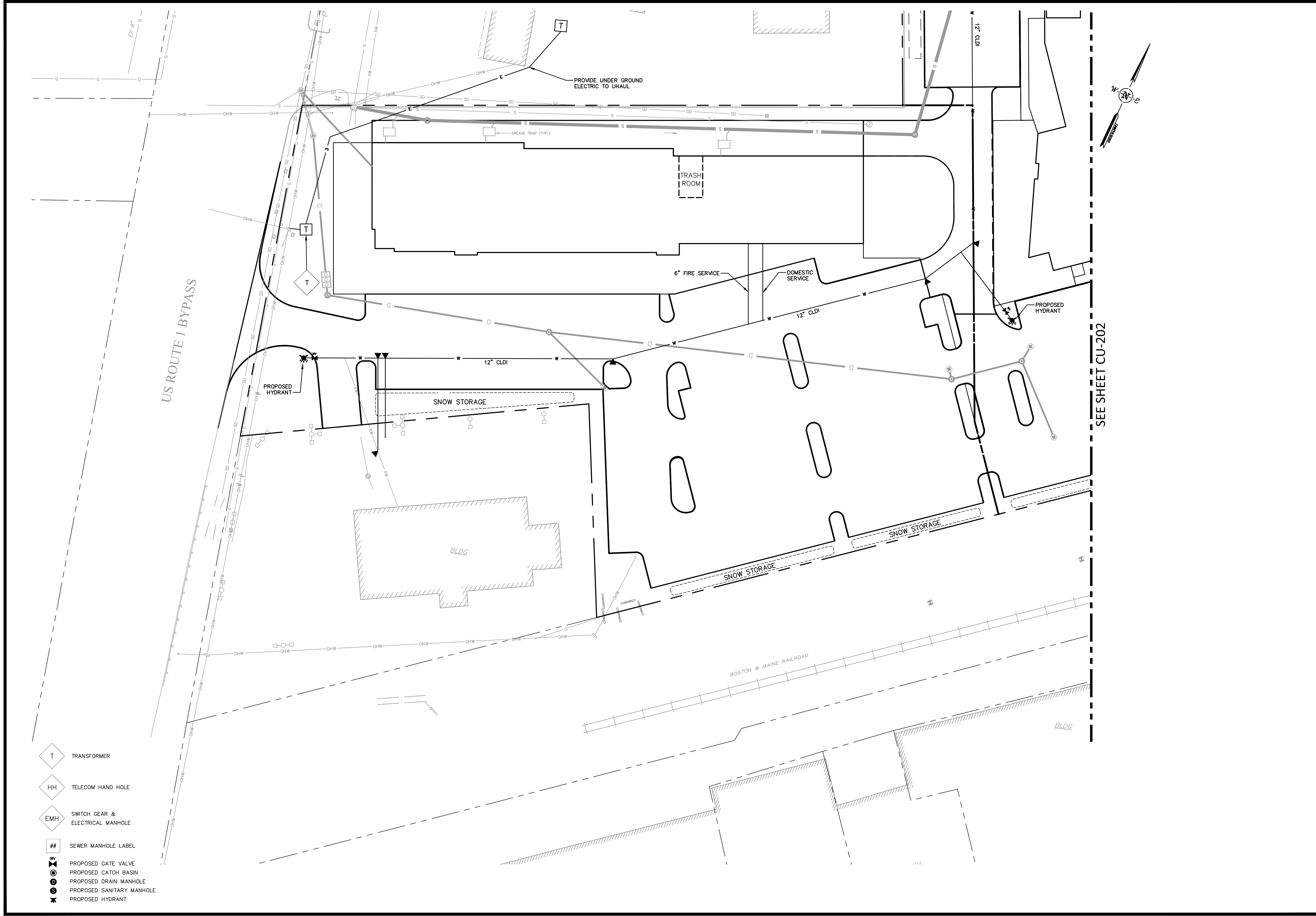
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 OVERALL UTILITY PLAN
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 PORTSMOUTH NEW HAMPSHIRE

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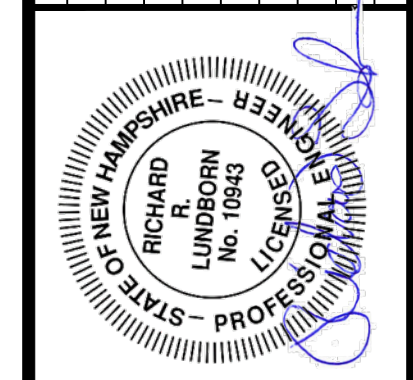
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REGISTERED PROFESSIONAL ENGINEER
 STATE OF NEW HAMPSHIRE
 RICHARD LUNDBORN
 No. 10843
 LICENSED IN MECHANICAL ENGINEERING



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1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL



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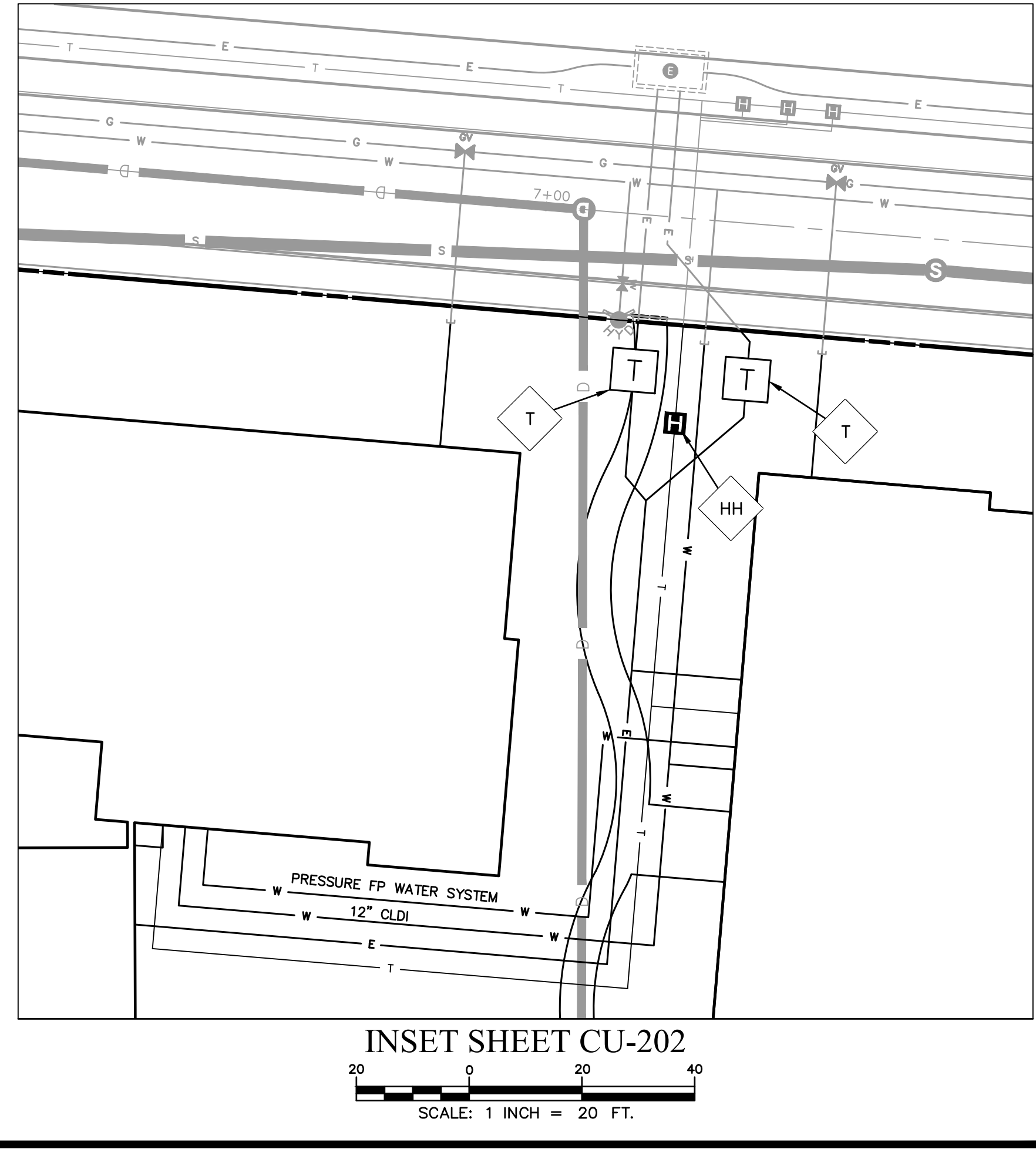
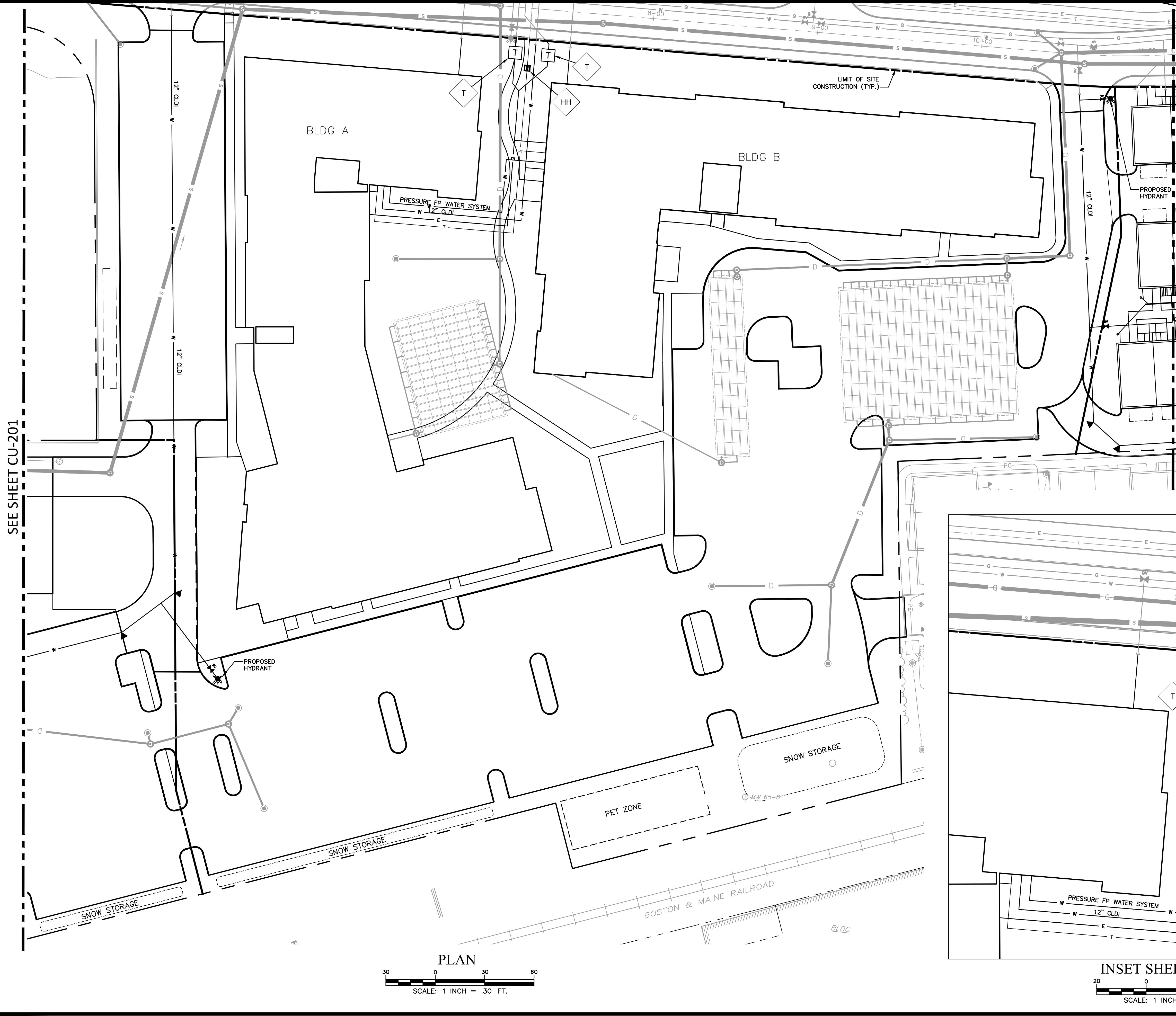
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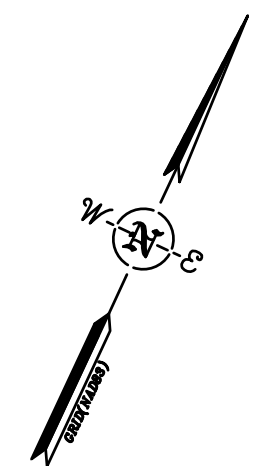
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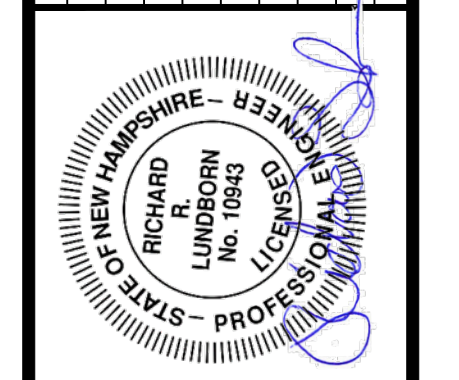
- TRANSFORMER
- TELECOM HAND HOLE
- SWITCH GEAR & ELECTRICAL MANHOLE
- SEWER MANHOLE LABEL
- PROPOSED GATE VALVE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED HYDRANT



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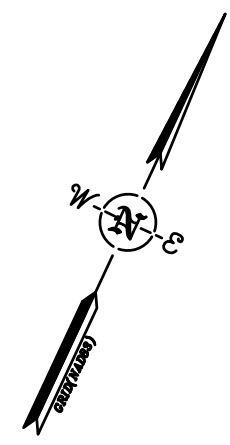


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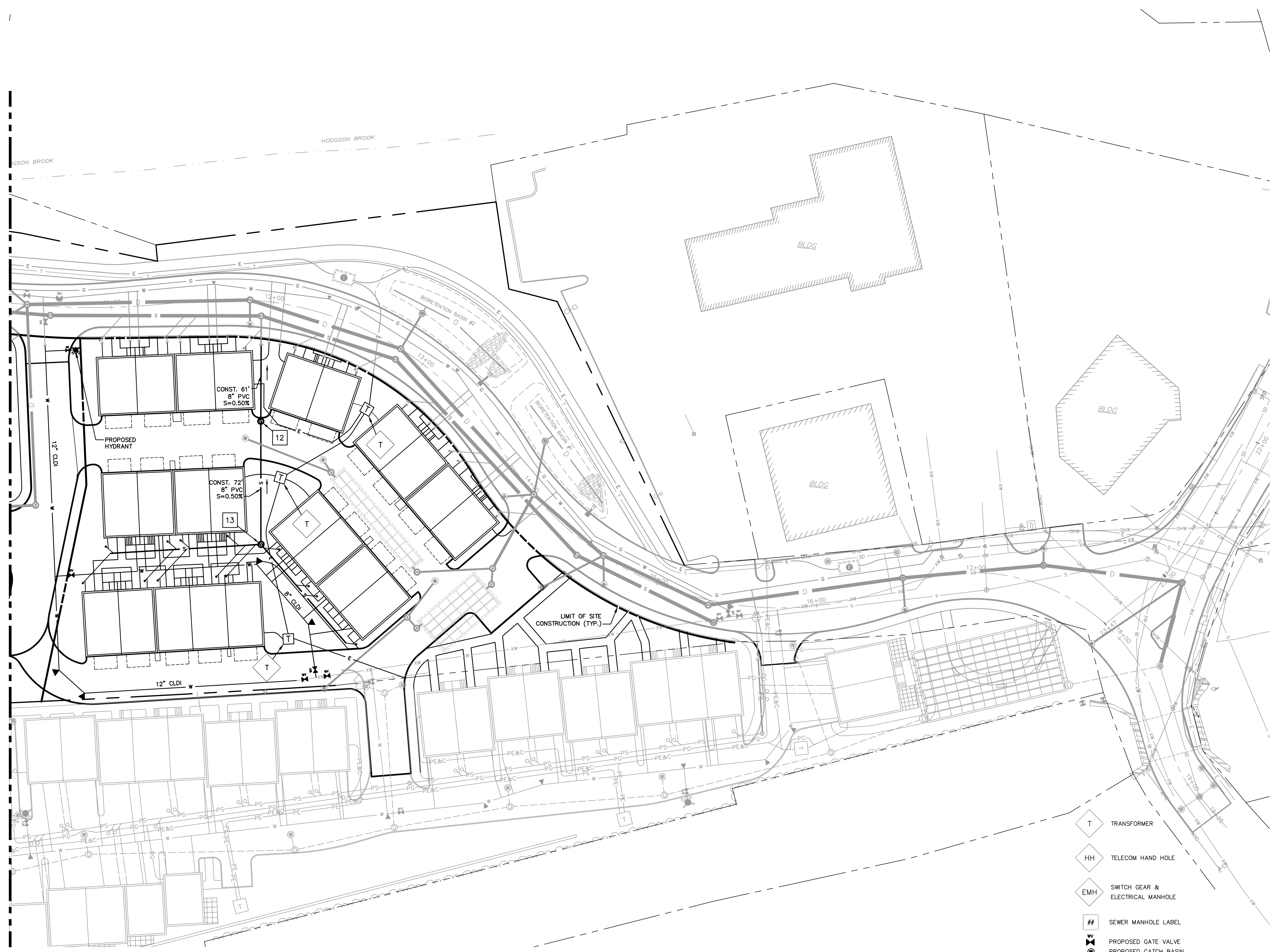
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PROJ. No.: 20180317.A10
 DATE: 07/24/2019
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- TRANSFORMER
- TELECOM HAND HOLE
- SWITCH GEAR & ELECTRICAL MANHOLE
- SEWER MANHOLE LABEL
- PROPOSED GATE VALVE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED HYDRANT

CATE STREET DEVELOPMENT, LLC

UTILITY PLAN

CATE STREET/ WEST END YARDS

PORTSMOUTH NEW HAMPSHIRE

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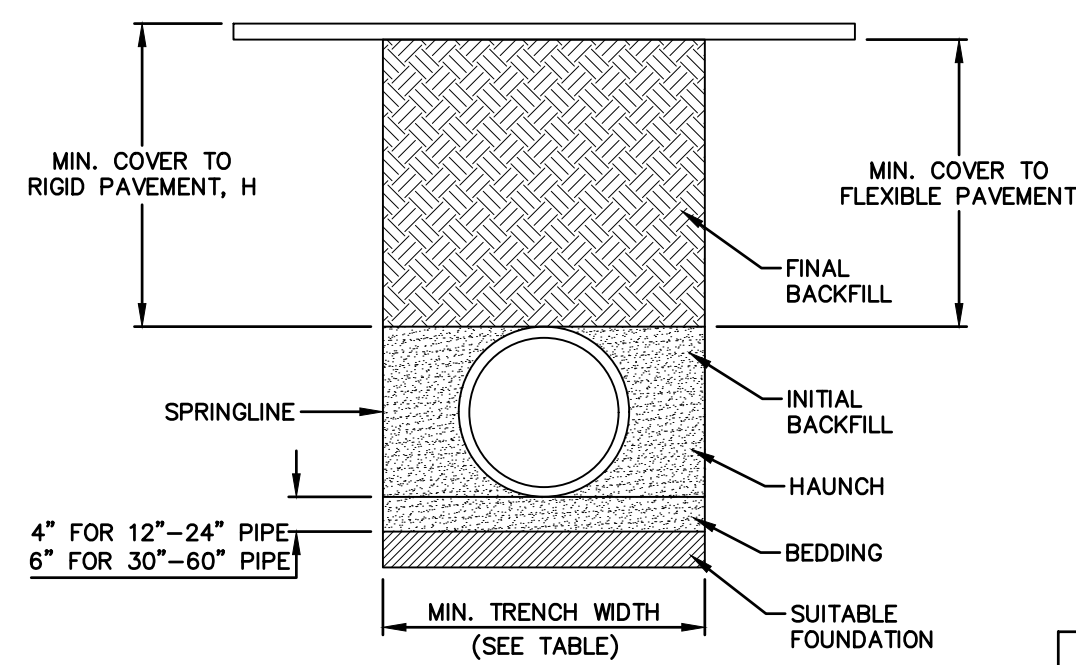
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- ALL SECTIONS SHALL BE CONCRETE, CLASS AA (4,000 PSI)
- CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER L.F. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL
- THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER L.F.
- RISERS OF 1'-4" MAY BE USED TO REACH THE DESIRED ELEVATION.
- THE STRUCTURES SHALL BE DESIGNED FOR H-20 LOADING.
- ADJUSTING THE FRAME TO GRADE MAY BE DONE WITH PRECAST CONCRETE GRADE RINGS OR CLAY BRICKS (2 COURSES MAX.). FRAME TO BE SET IN A FULL BED OF MORTAR.
- SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
- PIPE ELEVATIONS SHOWN ON THE PLAN SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
- PIPE ENDS SHALL PROJECT NO MORE THAN 3-INCHES BEYOND THE INSIDE WALL OF THE STRUCTURE.
- PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4-INCHES HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING ONE STRIP OF BUTYL RUBBER SEALANT OR APPROVED FLEXIBLE SEALANT.
- STEPS ARE NOT ALLOWED.

- CATCH BASIN SPECIFIC NOTES:**
- CONCRETE SECTIONS MAY BE CONCENTRIC OR ECCENTRIC FOR CATCH BASINS.
 - "ELIMINATOR" OIL/WATER SEPARATORS SHALL BE INSTALLED TIGHT TO THE INSIDE OF THE CATCH BASIN ON THE OUTLET PIPE.
- DRAIN MANHOLE SPECIFIC NOTES:**
- ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12-INCHES OF INSIDE SURFACE BETWEEN THE HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3-INCHES TO ANY JOINT.

PRECAST DRAINAGE STRUCTURE NOTES
NOT TO SCALE



HP STORM TRENCH INSTALLATION DETAIL
NOT TO SCALE

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12"	30"
(300mm)	(762mm)
15"	34"
(375mm)	(864mm)
18"	39"
(450mm)	(991mm)
24"	48"
(600mm)	(1219mm)
30"	56"
(750mm)	(1422mm)
36"	64"
(900mm)	(1626mm)
42"	72"
(1050mm)	(1829mm)
48"	80"
(1200mm)	(2032mm)
60"	98"
(1500mm)	(2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOAD CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)*
12"-48" (300mm-1200mm)	12" (305mm)	12" (305mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

*VEHICLE IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, FT.

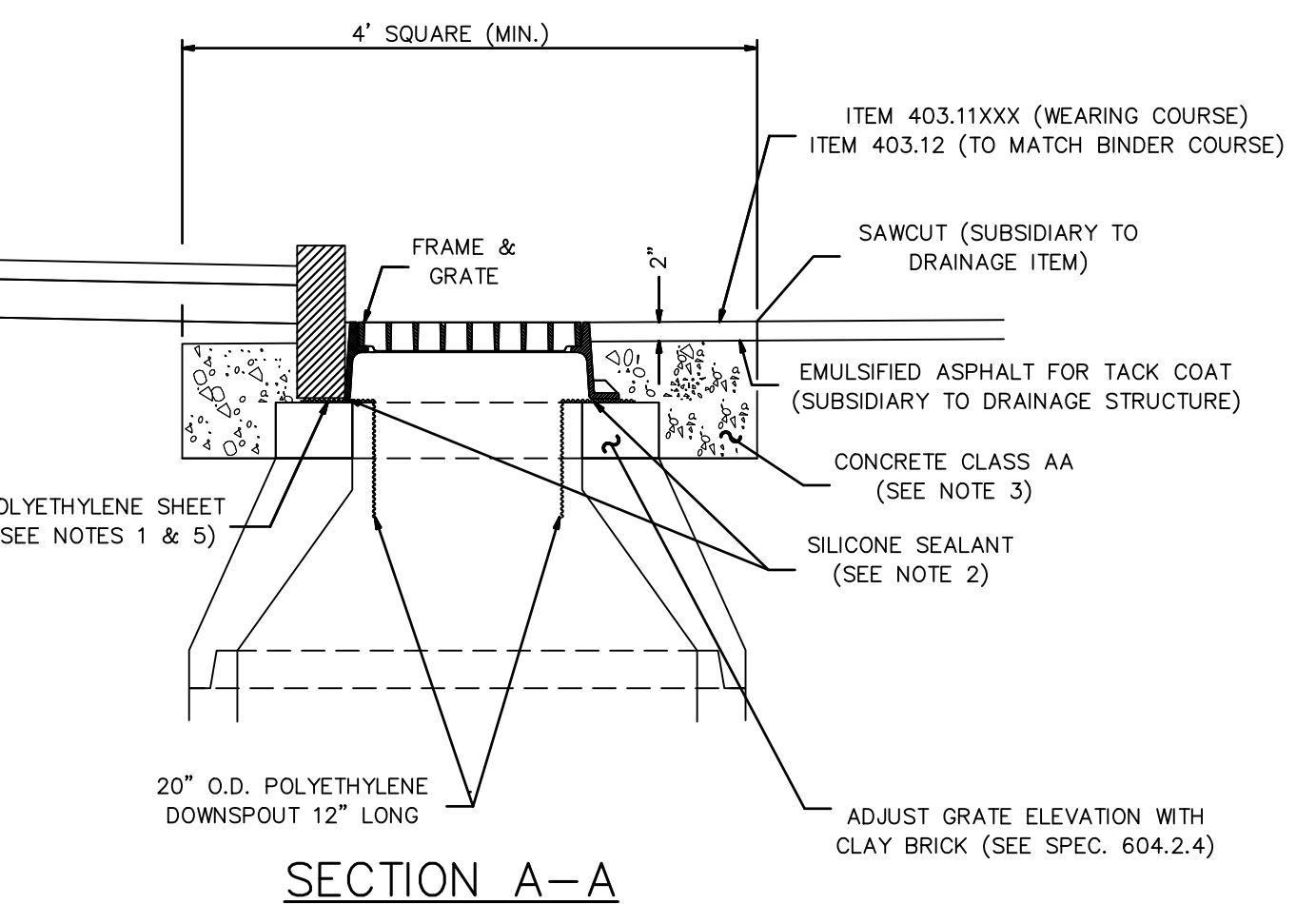
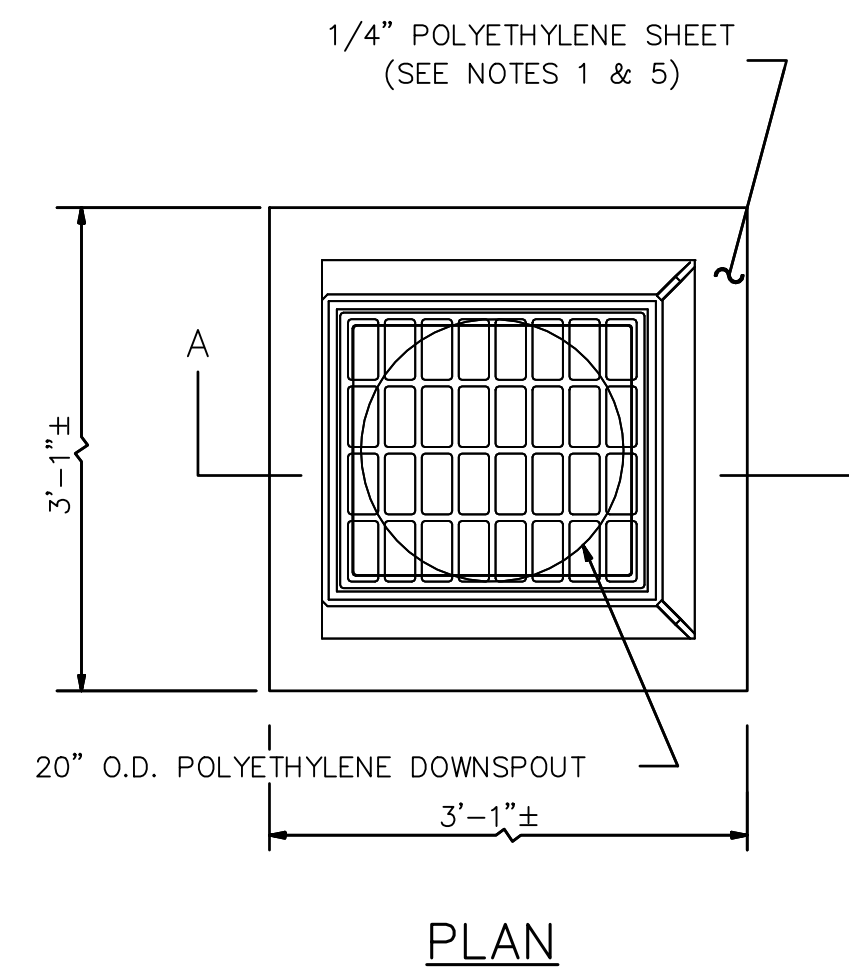
PIPE DIA.	CLASS I		CLASS II		CLASS III		CLASS IV
	COMPACTED	95%	90%	85%	95%	90%	95%
12" (305mm)	41" (12.5m)	28" (8.5m)	21" (6.4m)	16" (4.9m)	20" (6.4m)	16" (4.9m)	16" (4.9m)
15" (375mm)	42" (12.8m)	29" (8.8m)	24" (7.3m)	18" (5.5m)	21" (6.4m)	16" (4.9m)	16" (4.9m)
18" (450mm)	44" (13.4m)	30" (9.1m)	24" (7.3m)	18" (5.5m)	22" (6.7m)	17" (5.2m)	16" (4.9m)
24" (600mm)	48" (14.6m)	33" (10.1m)	26" (7.9m)	19" (5.8m)	24" (7.3m)	19" (5.8m)	14" (4.3m)
30" (750mm)	52" (15.8m)	36" (10.9m)	29" (8.8m)	21" (6.4m)	26" (7.9m)	20" (6.1m)	14" (4.3m)
36" (900mm)	56" (17.0m)	39" (11.9m)	32" (9.8m)	24" (7.3m)	29" (8.8m)	22" (6.7m)	10" (3.0m)
42" (1050mm)	60" (18.3m)	42" (12.8m)	35" (10.7m)	27" (8.2m)	32" (9.8m)	25" (7.6m)	10" (3.0m)
48" (1200mm)	64" (19.5m)	45" (13.7m)	38" (11.6m)	30" (9.1m)	35" (10.7m)	28" (8.5m)	10" (3.0m)
60" (1500mm)	72" (21.9m)	51" (15.5m)	44" (13.4m)	34" (10.4m)	40" (12.2m)	32" (9.8m)	8" (2.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γ) = PCF

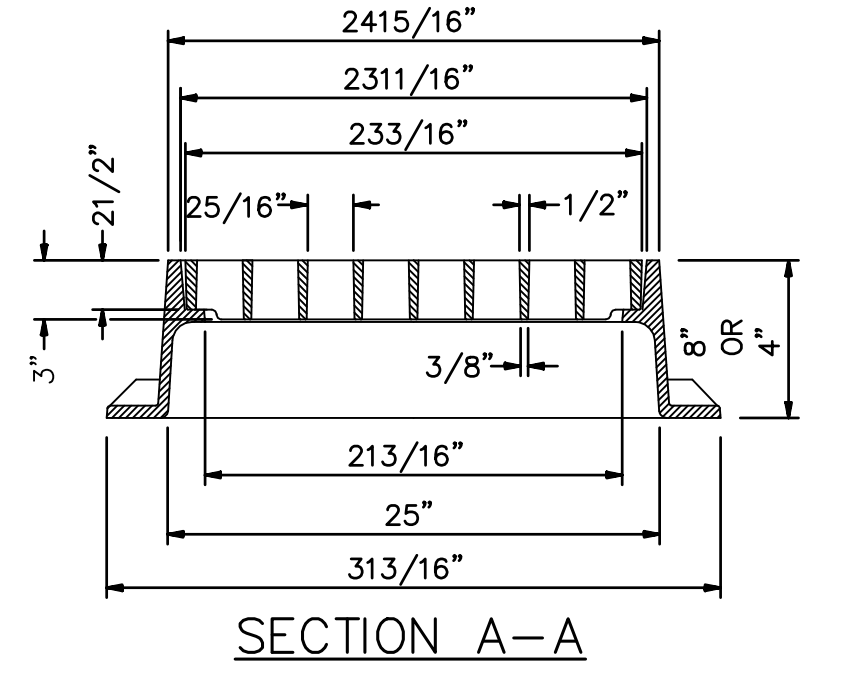
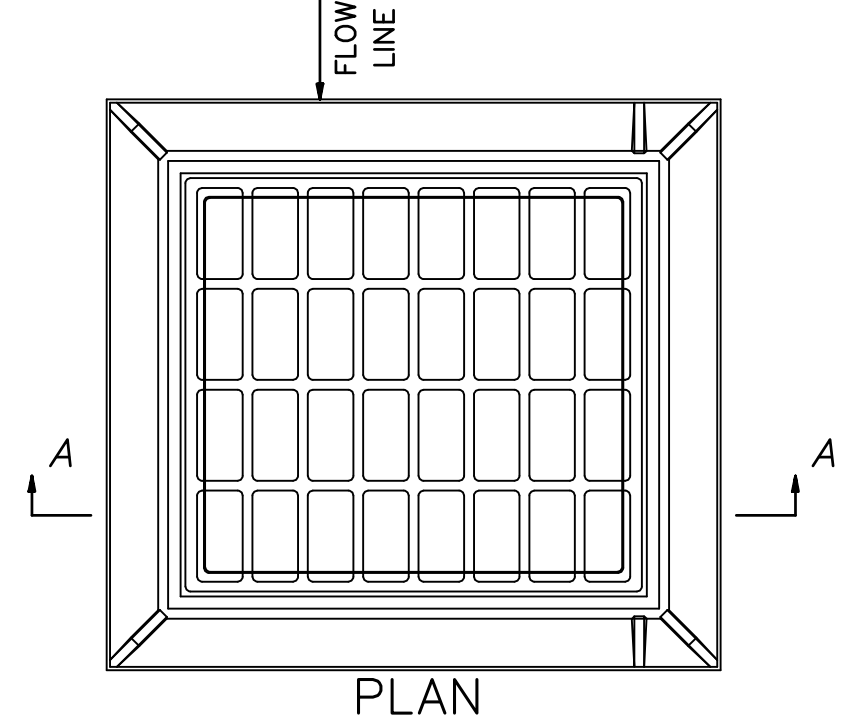
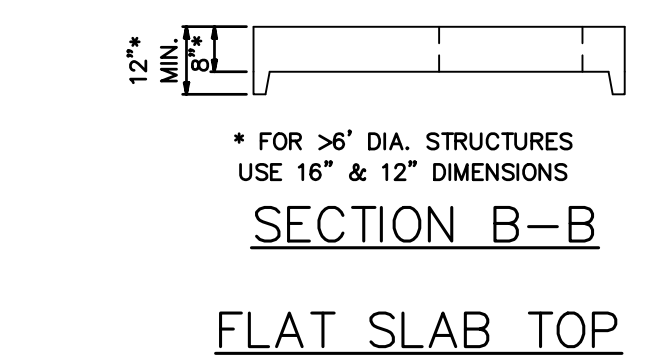
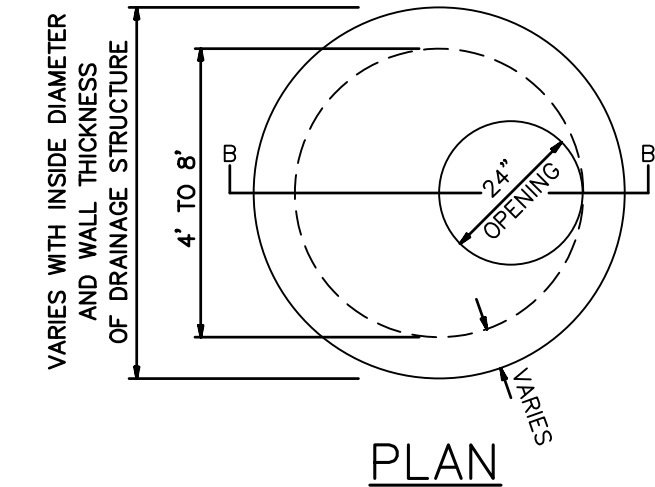
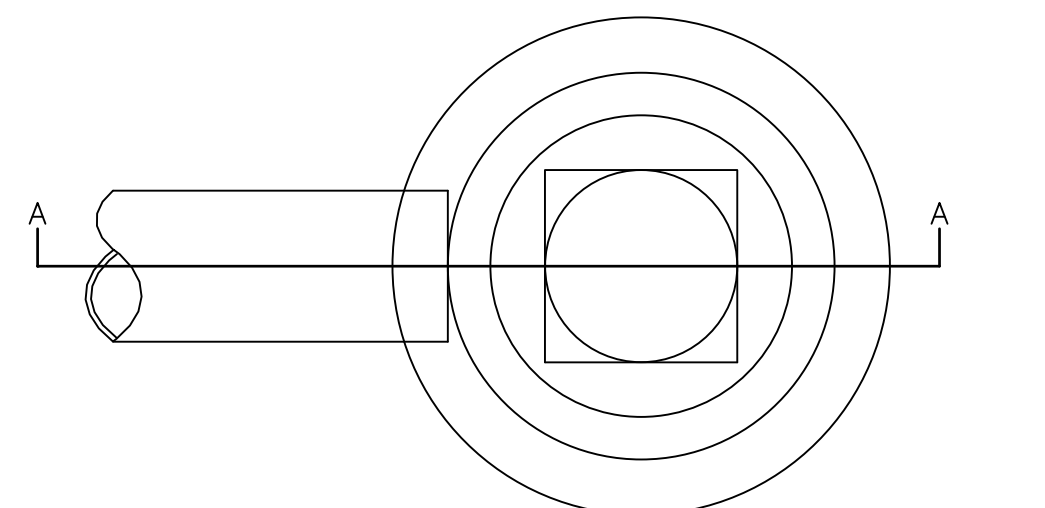
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D3221, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS I/IV MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D3221 ARE NOT APPROPRIATE BACKFILL MATERIALS.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND PLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICATION FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS: CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT TO TOP OF RIGID PAVEMENT.
- FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

- POLYETHYLENE LINER (ITEM 604.0007) SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
- PLACE A CONTINUOUS BEAD OF AN APPROVED SILICONE SEALANT (SUBSIDIARY TO ITEM 604.0007) BETWEEN FRAME AND POLYETHYLENE SHEET.
- PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF THE GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURES)
- USE ON DRAINAGE STRUCTURES 4" MIN. DIAMETER ONLY.
- TRIM POLYETHYLENE SHEET A MAXIMUM OF 4" OUTSIDE THE FLANGE ON THE FRAME FOR THE CATCH BASIN BEFORE PLACING CONCRETE (EXCEPT AS SHOWN WHEN USED WITH 3-FLANGE FRAME AND CURB).
- THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 6" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.
- PLACED ONLY IN DRAINAGE STRUCTURES IN PAVEMENT.
- SEE NHDOT DR-04, "DI-DB, UNDERDRAIN FLUSHING BASIN AND POLYETHYLENE LINER DETAILS", FOR ADDITIONAL INFORMATION.

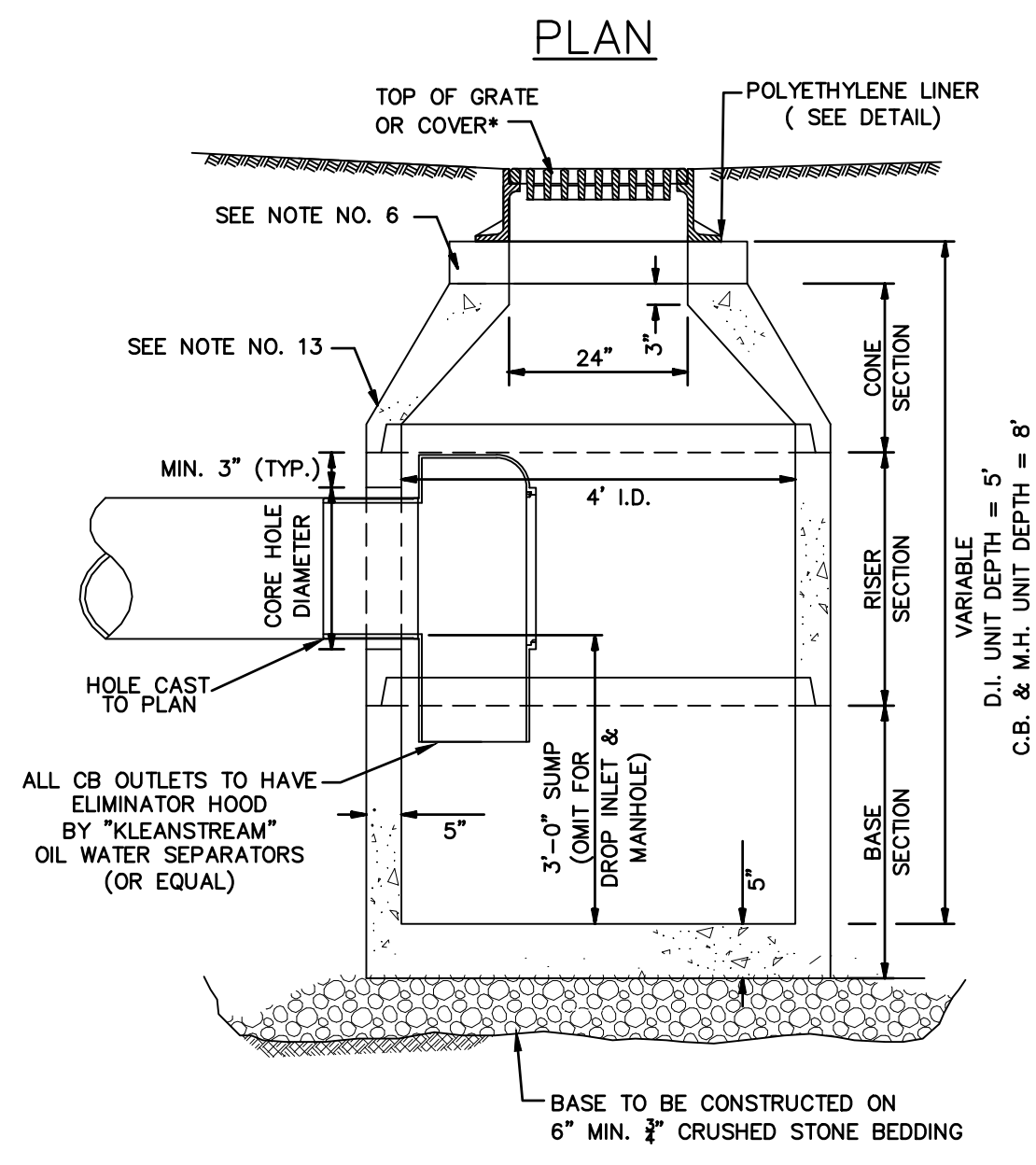
POLYETHYLENE LINER NOTES
NOT TO SCALE



POLYETHYLENE LINER
SCALE: N.T.S.

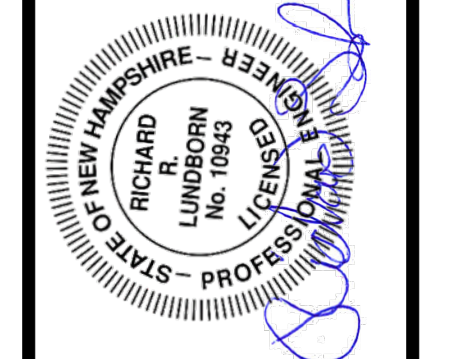


CATCH BASIN FRAME & GRATE (TYPE B)
SCALE: N.T.S.



PRECAST CATCH BASIN/DRAINAGE MANHOLE
SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD	RL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD	RL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD	RL



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	VERT.: NTS
DATUM:	HORIZ.: NTS
	VERT.: NTS
	GRAPHIC SCALE

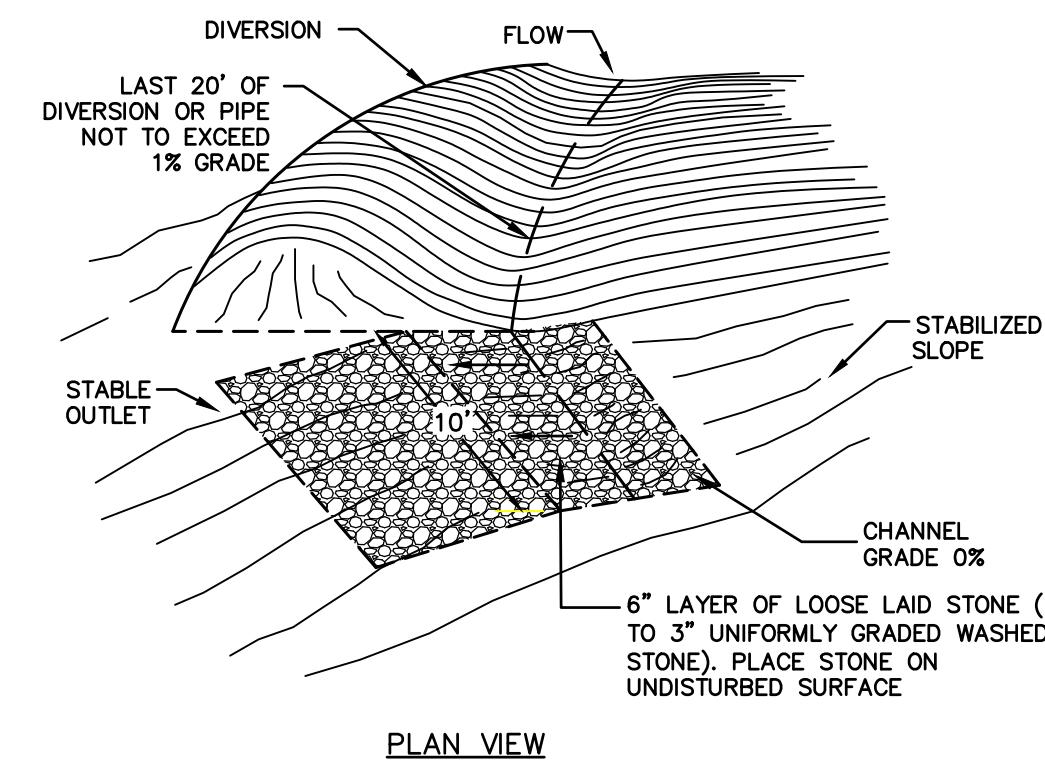
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CATE STREET DEVELOPMENT, LLC
DRAINAGE DETAILS
CATE STREET/ WEST END YARDS
PORTSMOUTH
NEW HAMPSHIRE

PROJ. No.: 20180317.A10
DATE: 06/20/2019

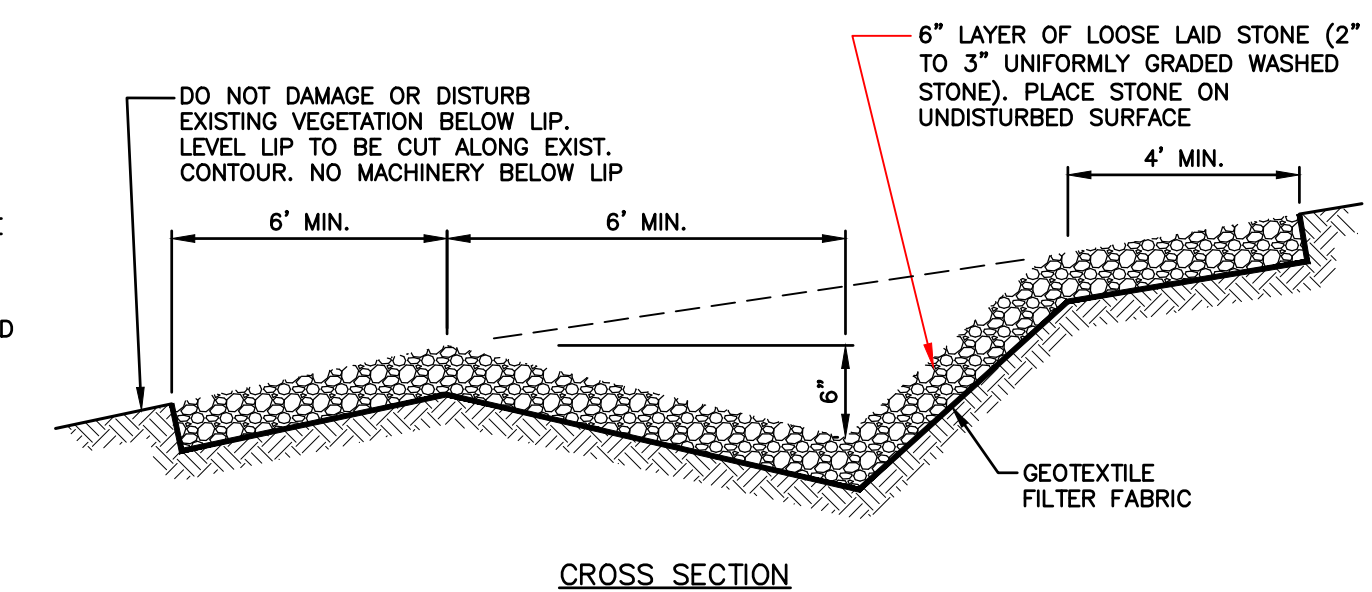
CD-510

File Path: F:\P20180317A10\CH313Dwg\20180317A10_DET01-SITE.dwg Layout: CD-511 DRAINAGE Plotted: Wed, July 24, 2019 - 12:13 PM User: ddugal
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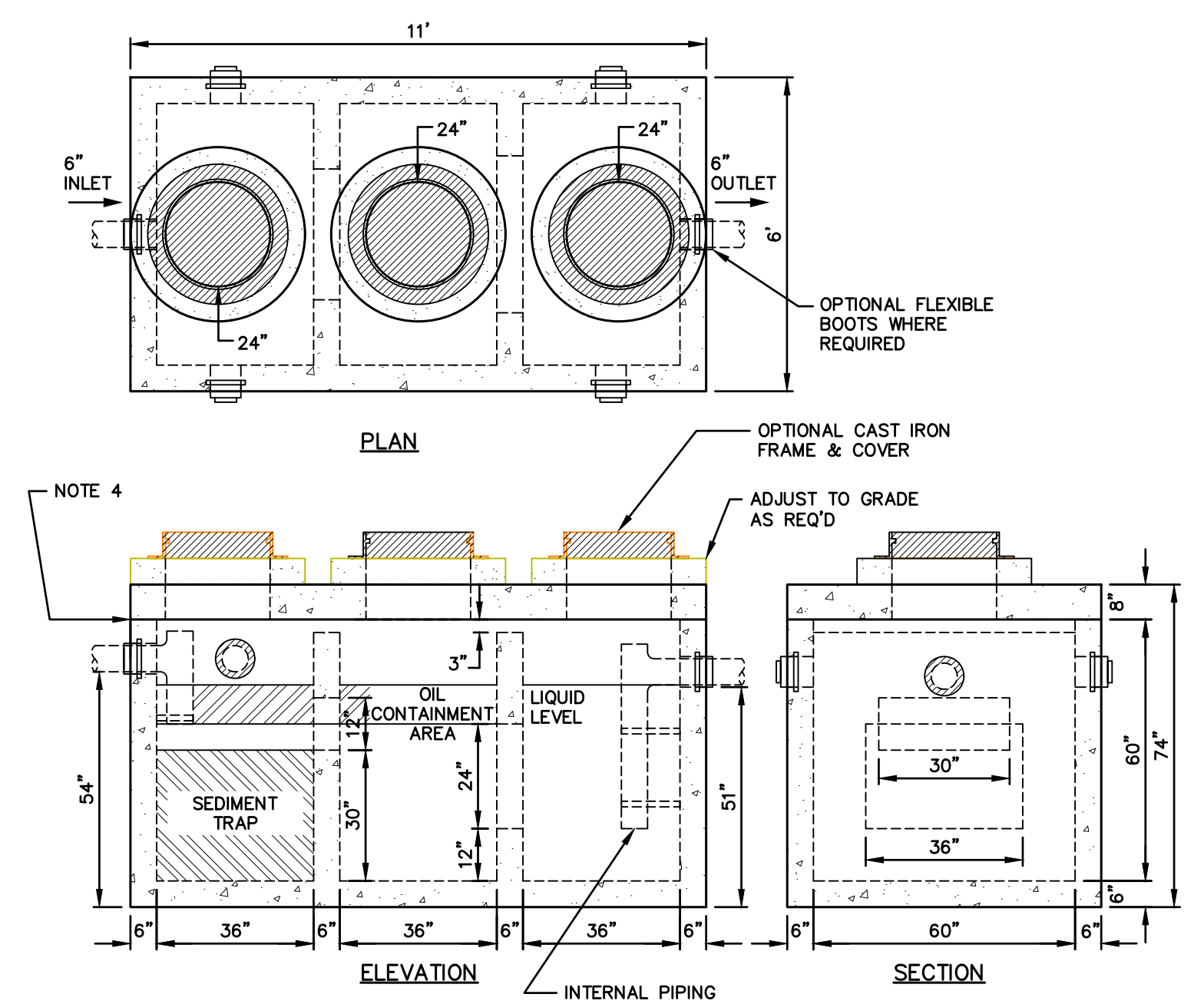


- CONSTRUCTION SPECIFICATIONS**
1. SPREADERS SHALL BE INSTALLED WITH LEVEL INSTRUMENT, CONSTRUCT LEVEL UP TO 0% GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL).
 2. SELECT GEOTEXTILE FABRIC BASED ON UNDISTURBED SOILS (SAND, SILTS, CLAY, ETC.)
 3. PLACE 6" LAYER OF UNIFORMLY GRADED STONE 2" TO 3" IN DIAMETER, TAKE TO FORM SMOOTH UNIFORM SURFACE. DO NOT FILL VOIDS IN STONE.
 4. THE INLET DITCH SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE ENTERING THE SPREADER.
 5. STORM RUN-OFF CONVERTED TO SHEET FLOW ACROSS OUTLET APRON SHALL FLOW ONTO STABILIZED AREA. RUN-OFF SHALL NOT BE RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE.
 6. CONSTRUCTION OF LEVEL LIP SPREADER SHALL BE UPHILL SIDE ONLY. LEVEL LIP AND AREA BELOW SPREADER SHALL BE AT EXISTING GRADE AND UNDISTURBED BY EARTHWORK OR EQUIPMENT.
 7. CONSTRUCT SPREADER WITH LIP AT EXISTING ELEVATION AS SPECIFIED.
 8. DOWN GRADIENT RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.

- MAINTENANCE NOTES:**
1. THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND TO DETERMINE THAT THE DESIGN CONDITIONS HAVE NOT CHANGED.
 2. ANY DETRIMENTAL ACCUMULATION OF SEDIMENTS SHOULD BE REMOVED.
 3. IF RILLING HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED AND RE-VEGETATED.
 4. THE VEGETATION SHOULD BE MOWED OCCASIONALLY TO CONTROL WEEDS AND THE ENCROACHMENT OF WOODY VEGETATION. CLIPPINGS SHOULD BE REMOVED AND DISPOSED OF OUTSIDE THE SPREADER AND AWAY FROM THE OUTLET AREA.



STONE LINED LEVEL SPREADER
 NOT TO SCALE



- GENERAL NOTES**
1. CONCRETE: FC = 5,000 PSI @ 28 DAYS MINIMUM TYPE III CEMENT
 2. STEEL REINFORCEMENT CONFORMS TO LATEST ASTM SPECIFICATIONS: ASTM-A615 GRADE 60 BLACK DEFORMED BARS
 3. DESIGN LOADING: AASHTO-HS20-44 DESIGN SPECIFIED AS ACI 318-08, AASHTO-1992
 4. BUTYL RUBBER JOINT SEALANT PROVIDED
 5. FLEXIBLE SLEEVES PROVIDED ALL PIPE CONNECTIONS
 6. PIPE SIZES AND COMPARTMENT CONFIGURATIONS PER JOB SPECIFICATIONS

EST WEIGHTS:
 TOP SLAB - 6,500 LBS
 BASE - 20,500 LBS
 TOTAL - 27,000 LBS

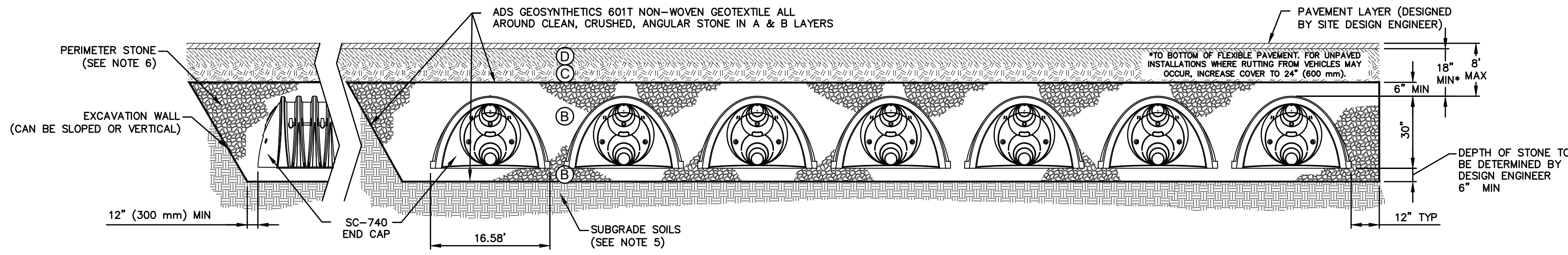
1,500 GALLON 3-COMPARTMENT HS-20 OIL & SEDIMENT SEPARATOR (PHOENIX PRECAST PRODUCTS)
 NOT TO SCALE

SCALE: HORZ.: NTS VERT.: DATUM:		SCALE: HORZ.: 1" = 10' VERT.: 1" = 4' GRAPHIC SCALE	
FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 207.563.6669 www.fandoc.com		CATE STREET DEVELOPMENT, LLC DRAINAGE DETAILS CATE STREET/ WEST END YARDS PORTSMOUTH NEW HAMPSHIRE	
PROJ. No.: 20180317.A10		DATE: 06/20/2019	
CD-511			

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹

PLEASE NOTE:

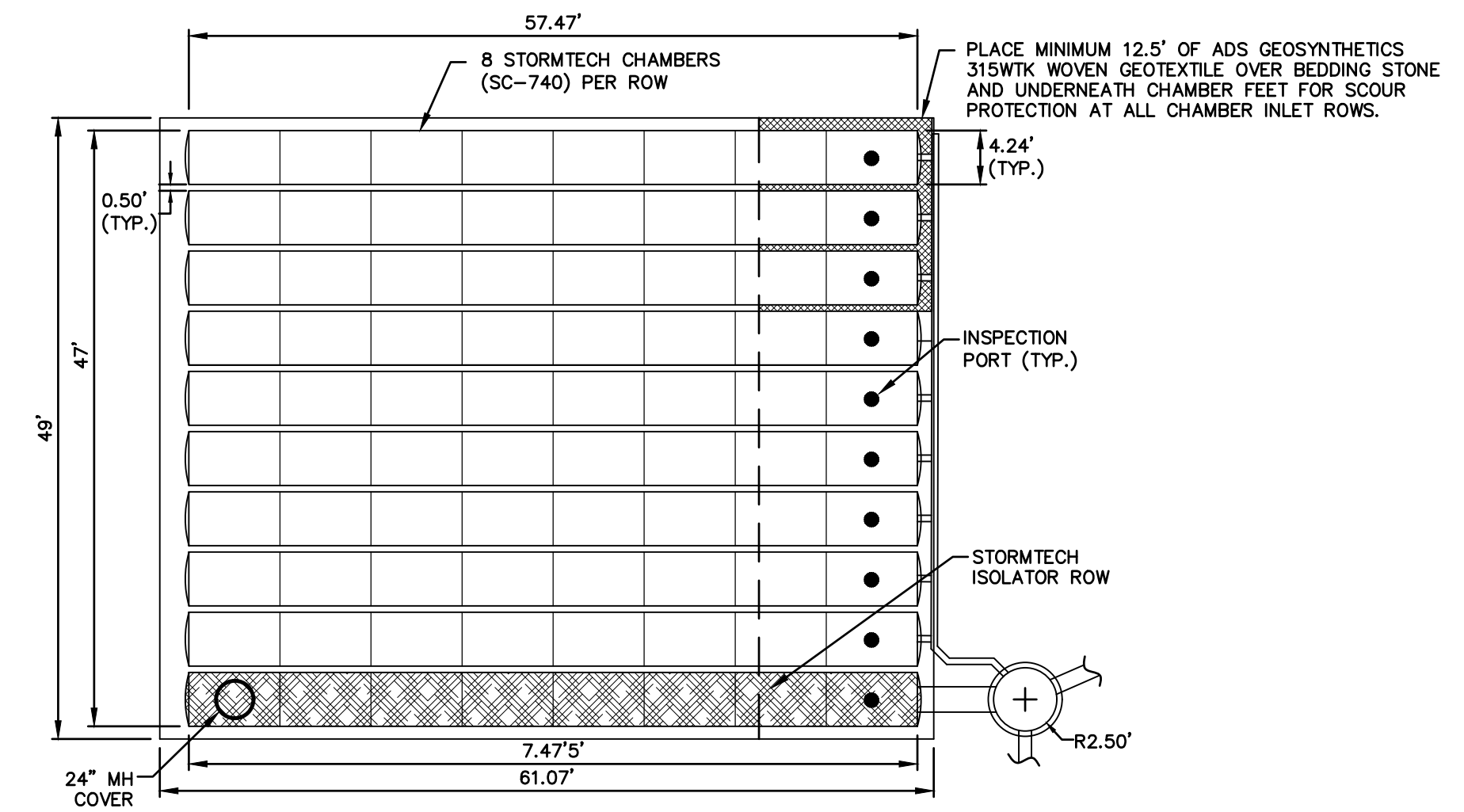
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



SC-740 SECTION VIEW

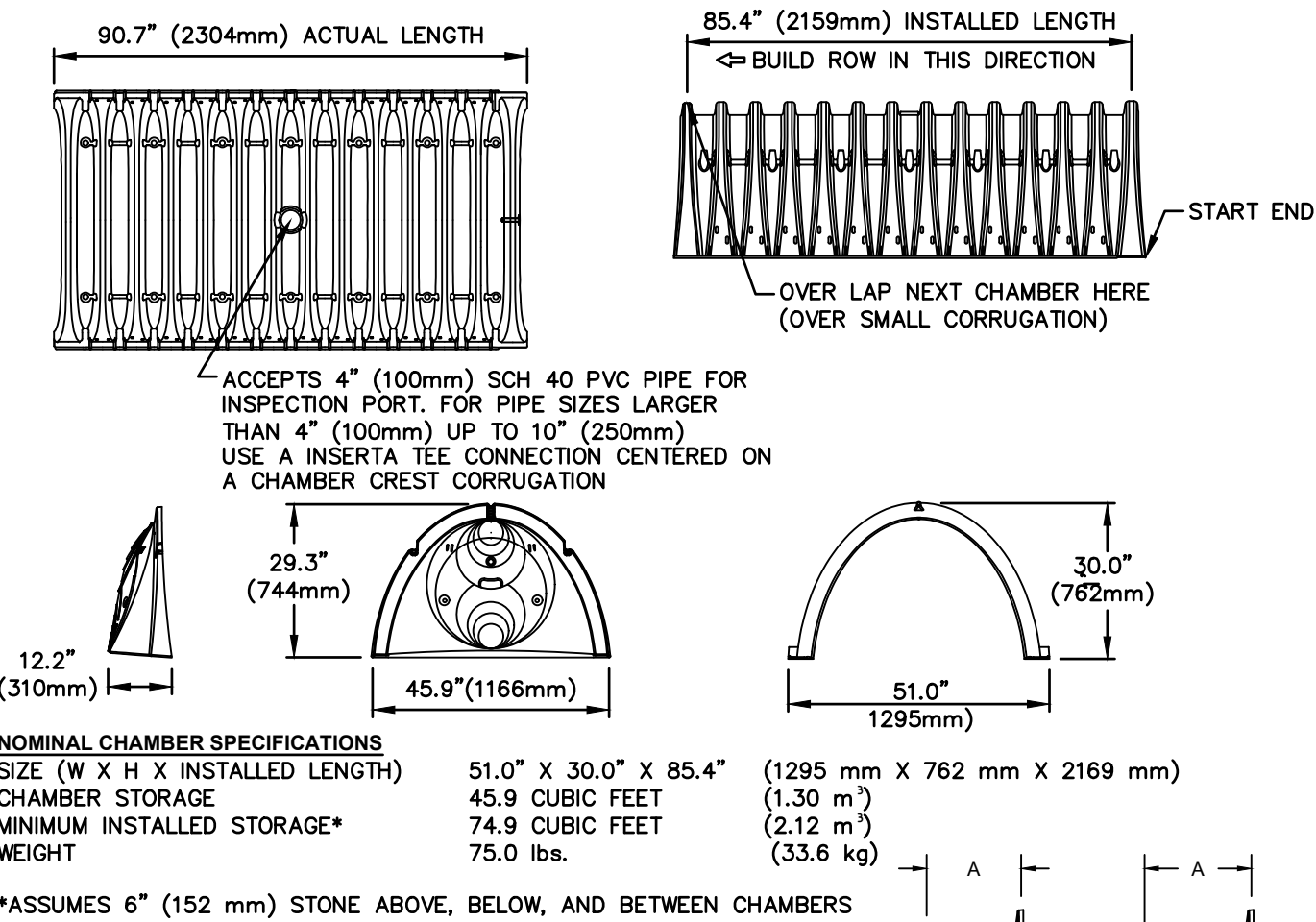
NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



SC-740 PLAN VIEW

SC-740 TECHNICAL SPECIFICATION

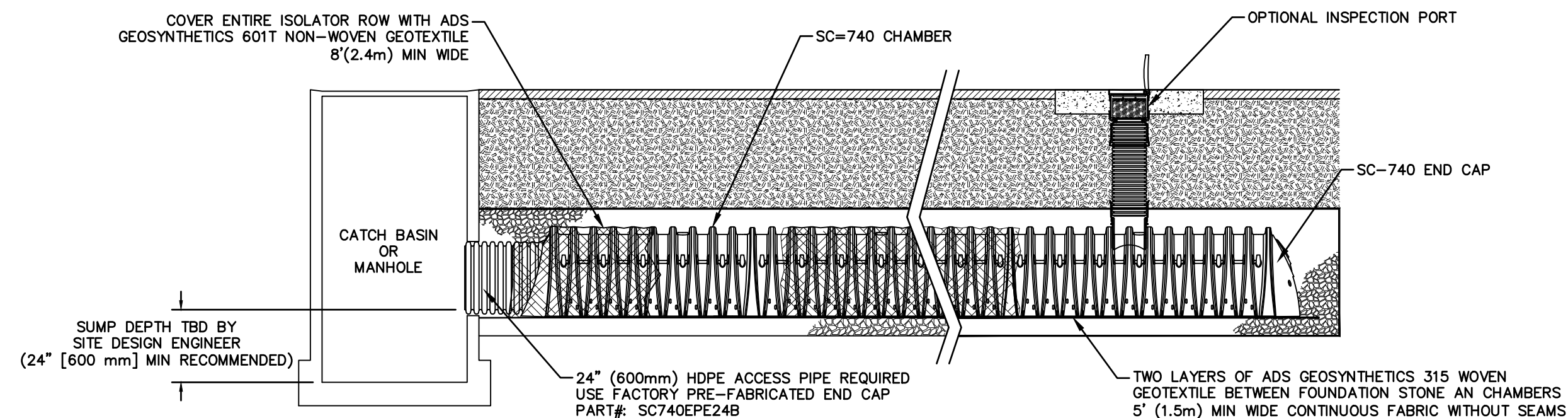


PART #	STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"			STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"		
	STUB	A	B	STUB	A	B
SC740EPE08T / SC740EPE08TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---	---	---
SC740EPE08B / SC740EPE08BPC	---	---	---	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---	---	---
SC740EPE08B / SC740EPE08BPC	---	---	---	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---	---	---
SC740EPE10B / SC740EPE10BPC	---	---	---	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---	---	---
SC740EPE12B / SC740EPE12BPC	---	---	---	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---	---	---
SC740EPE15B / SC740EPE15BPC	---	---	---	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---	---	---
SC740EPE18B / SC740EPE18BPC	---	---	---	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	---	---	---

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE H-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



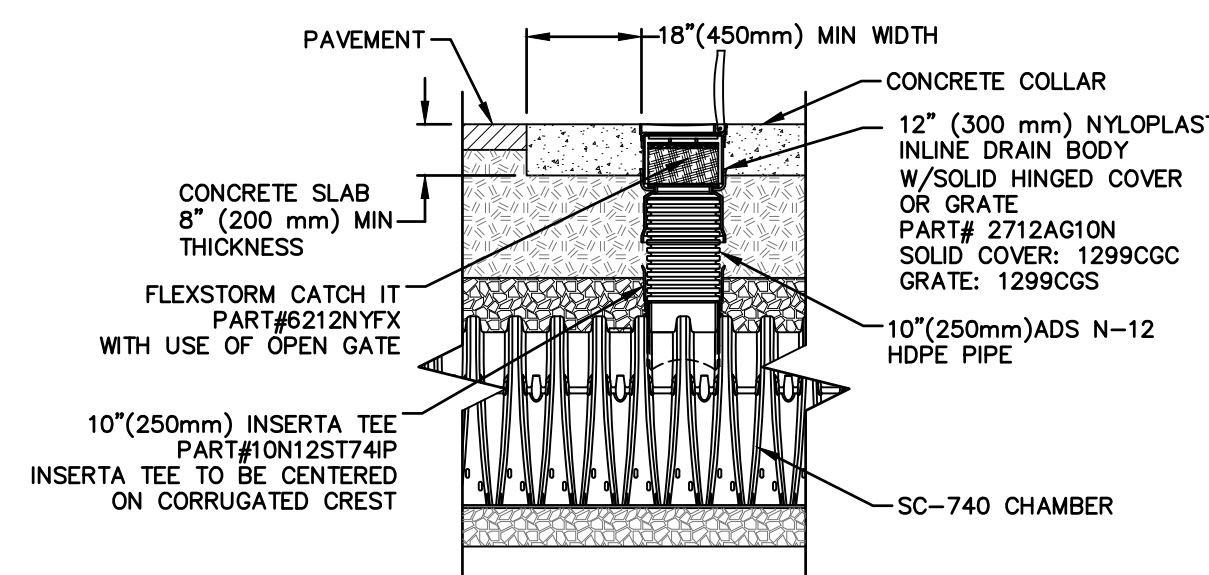
SC-740 ISOLATOR ROW DETAIL

INSPECTION & MAINTENANCE

- INSPECT ISOLATOR ROW FOR SEDIMENT
 - INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- ALL ISOLATOR ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
 - A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

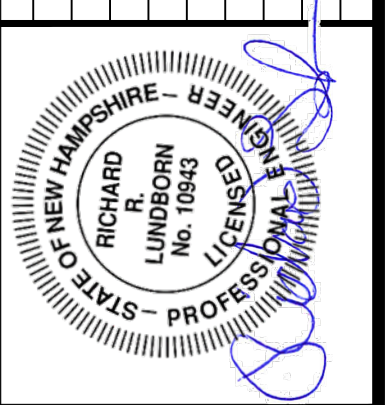
NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 INSPECTION PORT DETAIL

No.	DATE	DESCRIPTION	DESIGNER/REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



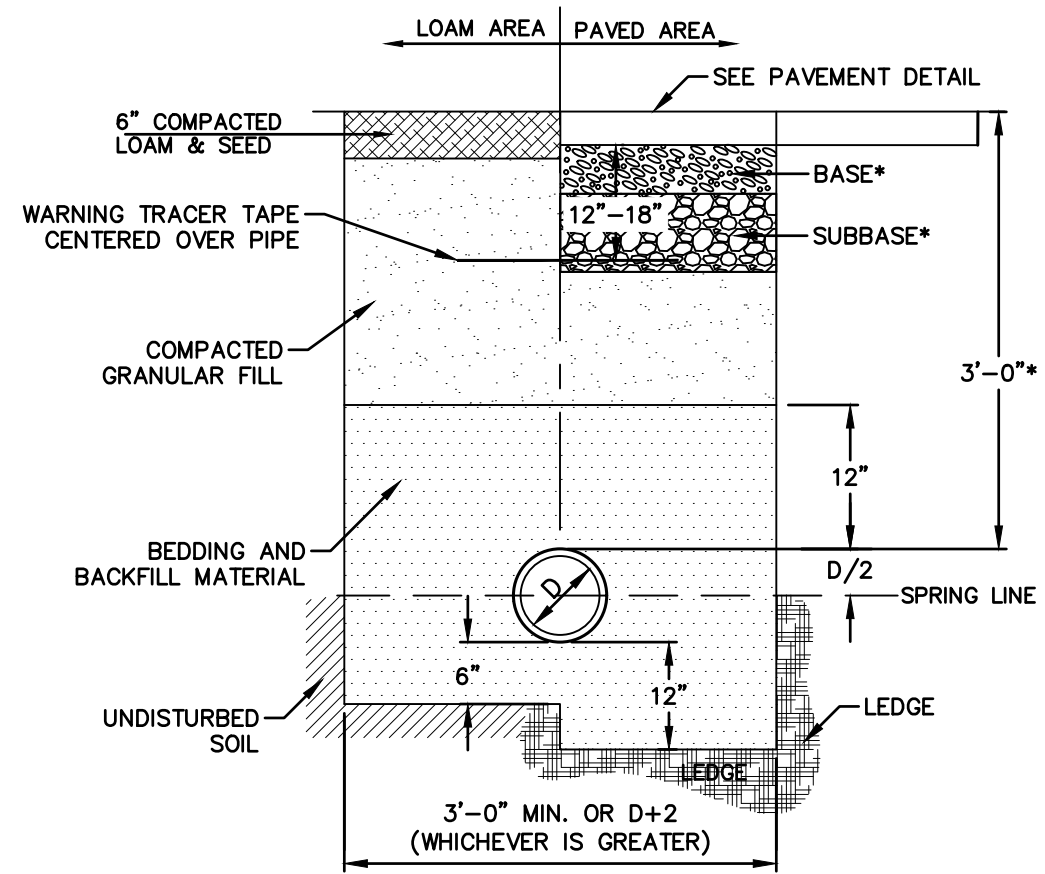
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DATUM:	HORIZ.: NTS	VERT.: NTS
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 PORTSMOUTH NEW HAMPSHIRE

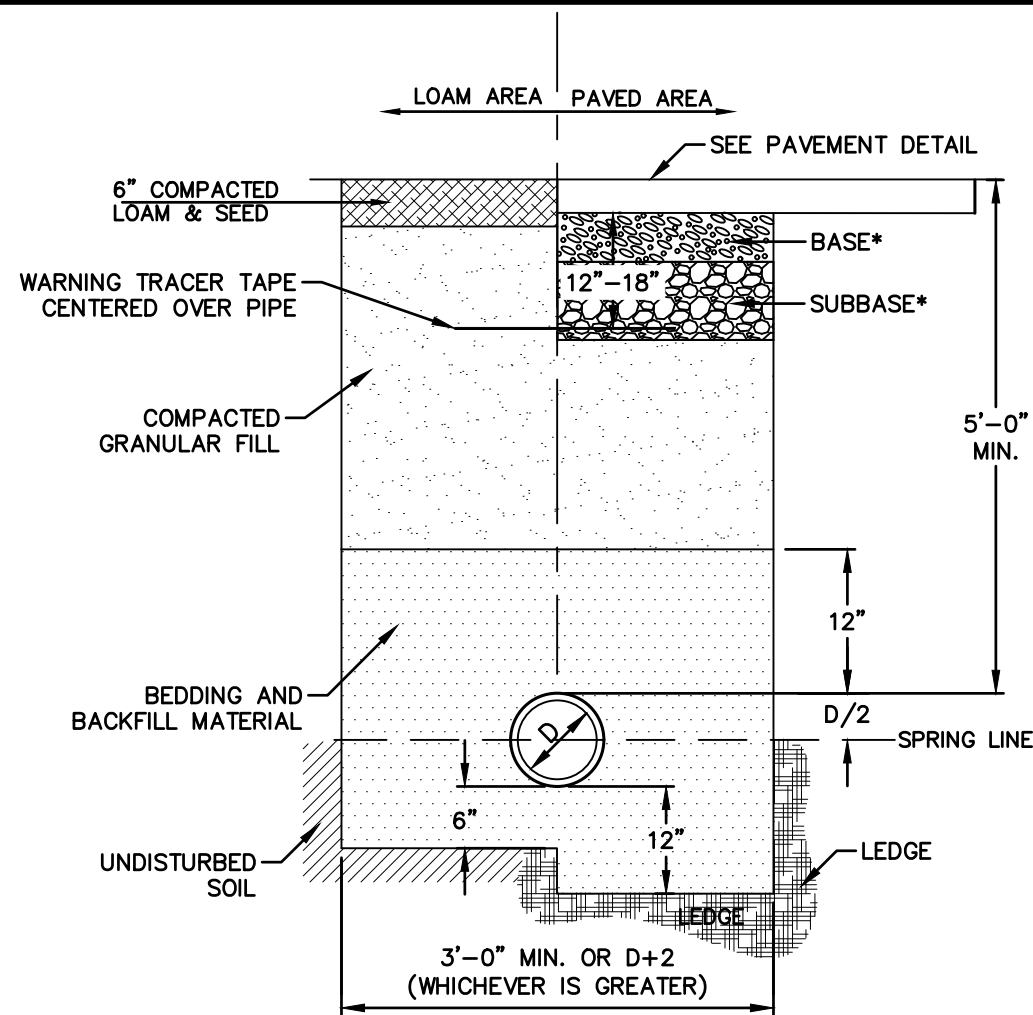
PROJ. No.: 20180317A10
 DATE: 06/20/2019

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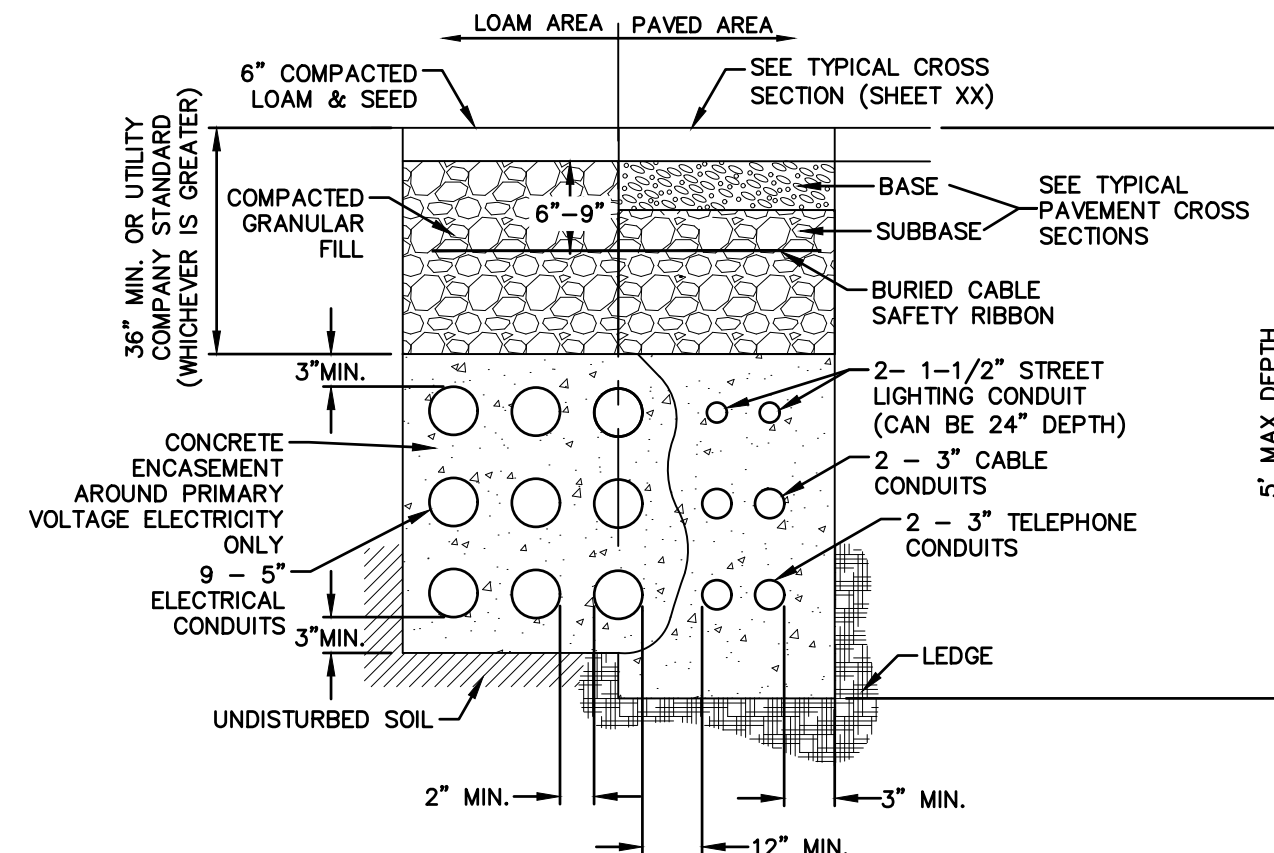
*NOTE: GAS MAIN NO DEEPER THAN 3' UNLESS IN A SPECIAL SITUATION.

GAS TRENCH
NOT TO SCALE



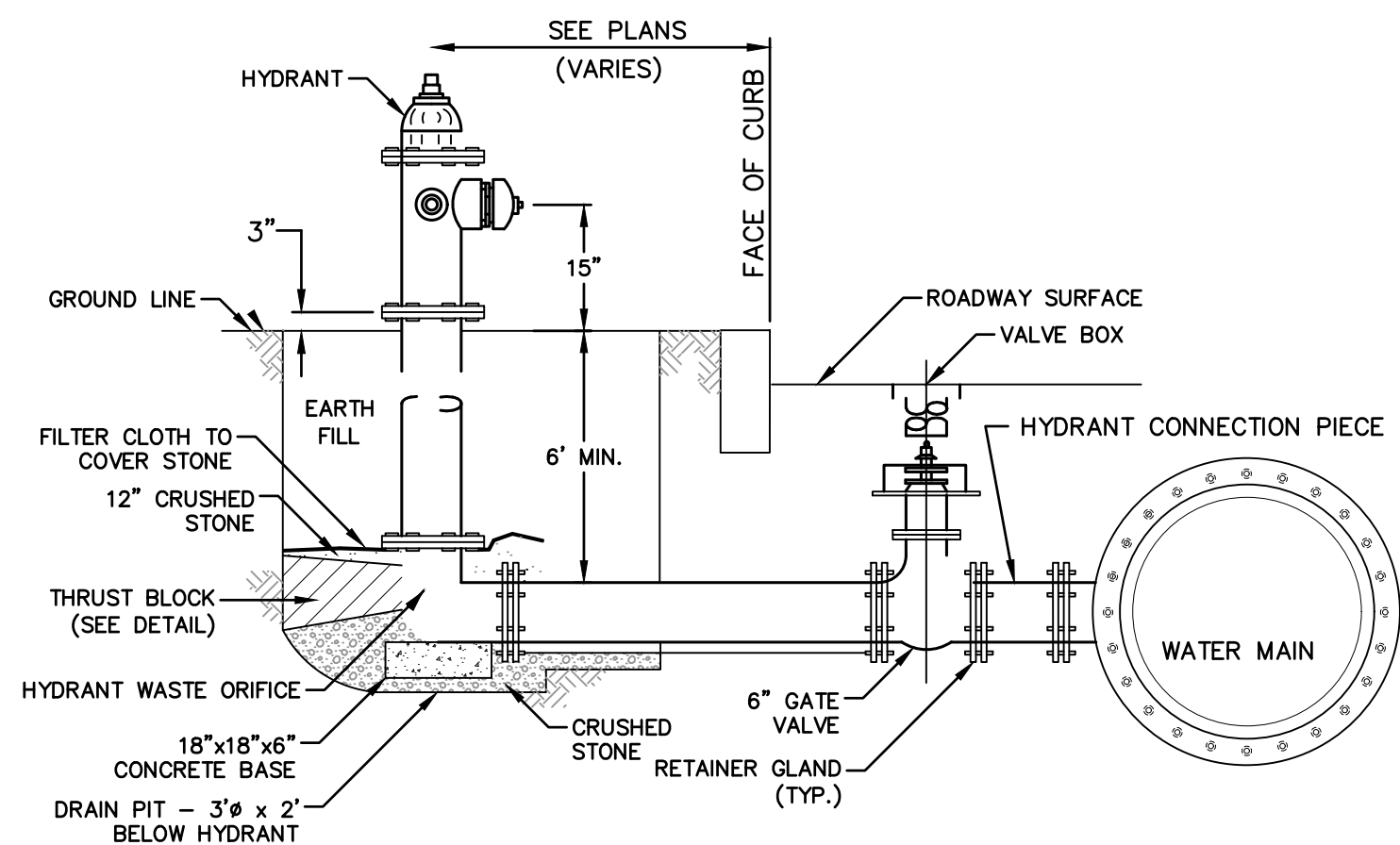
WATER TRENCH SECTION
NOT TO SCALE

- NOTES:
1. WATER MAINS SHALL BE CONSTRUCTED USING CITY OF PORTSMOUTH STANDARDS.
 2. ANY WATER LINES INSTALLED UNDER GUARD RAIL SHALL BE 3' DEEPER THAN POST DEPTH.



ELECTRICAL AND COMMUNICATION CONDUIT
NOT TO SCALE

1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL OR AS SHOWN ON CONDUIT PLAN.
2. DIMENSIONS SHOWN REPRESENTS OWNER'S MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT MAY NOT BE LESS THAN SHOWN.
3. NO CONDUIT SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
4. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
5. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
6. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
7. ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 35° TO 48° RADIUS.?????



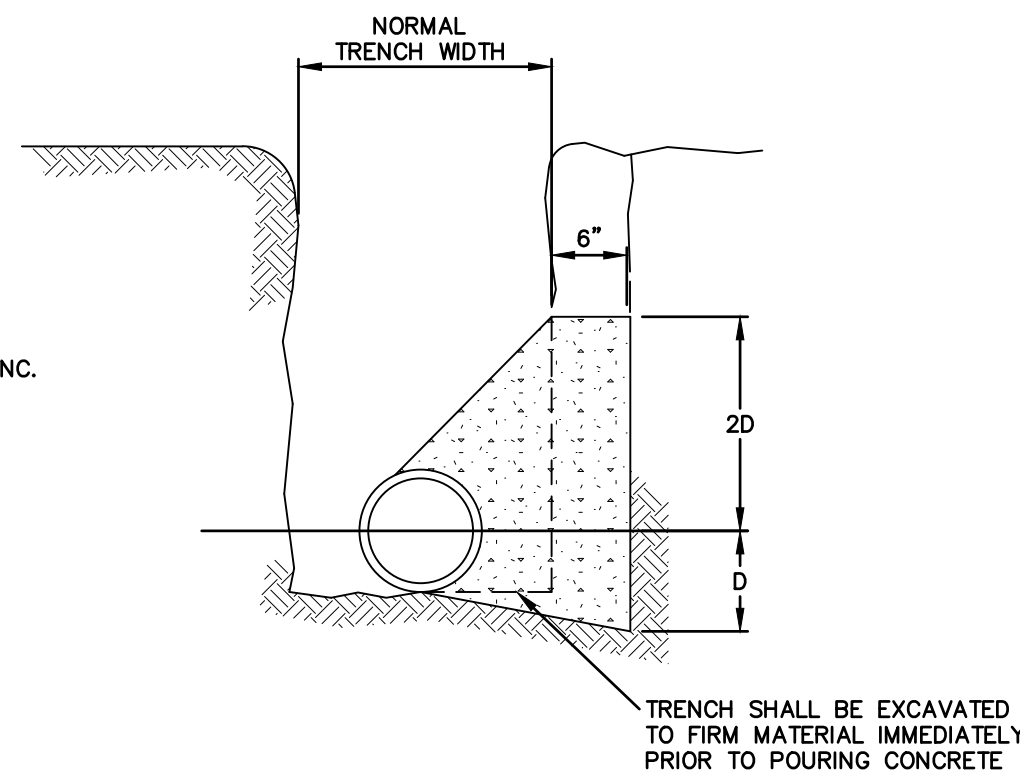
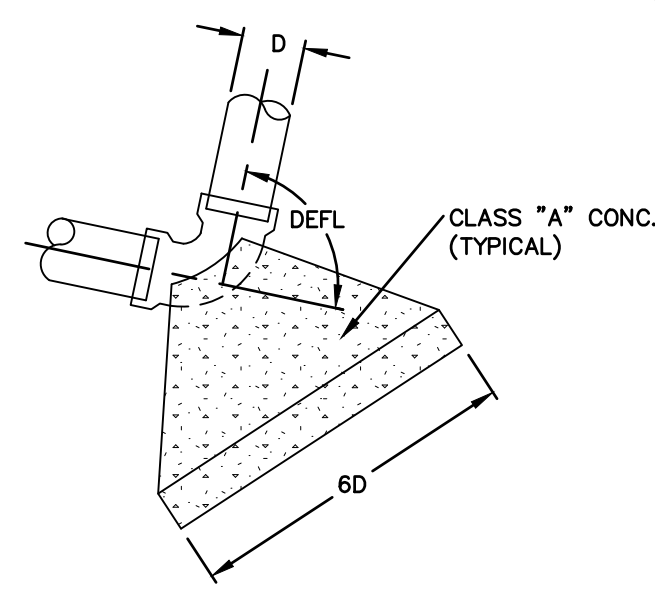
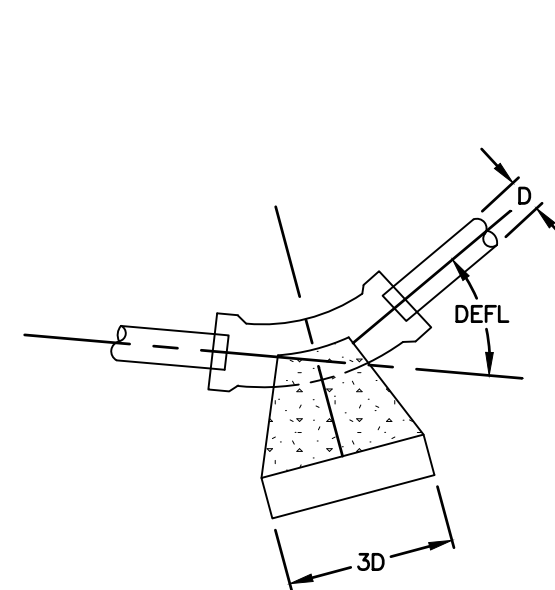
NOTE: HYDRANT AND VALVES TO BE 'OPEN RIGHT (CLOCKWISE)'.

FIRE HYDRANT
NOT TO SCALE

NOTE: HYDRANT INSTALLATION AND OPERATION, MANUFACTURE AND MODEL, AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF PORTSMOUTH WATER DEPARTMENT AND FIRE DEPARTMENT.

PPE DIA. (INCHES)	MINIMUM THRUST BLOCK VOLUME (CUBIC YARDS)
4	0.2
6	0.25
8	0.3
10	0.35
12	0.4
16	0.7

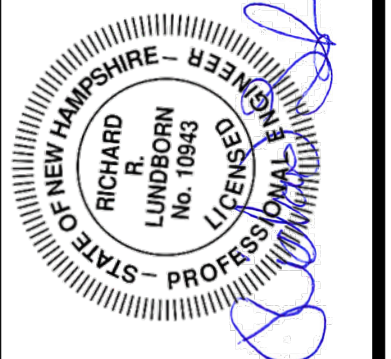
PPE DIA. (INCHES)	MINIMUM THRUST BLOCK VOLUME (CUBIC YARDS)
4	0.25
6	0.3
8	0.5
10	0.7
12	1.0
16	1.6



SECTION

CONCRETE THRUST BLOCKS
NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER/REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



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CATE STREET DEVELOPMENT, LLC
WATER & UTILITY DETAILS
CATE STREET/ WEST END YARDS
PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
DATE: 06/20/2019

CD-520

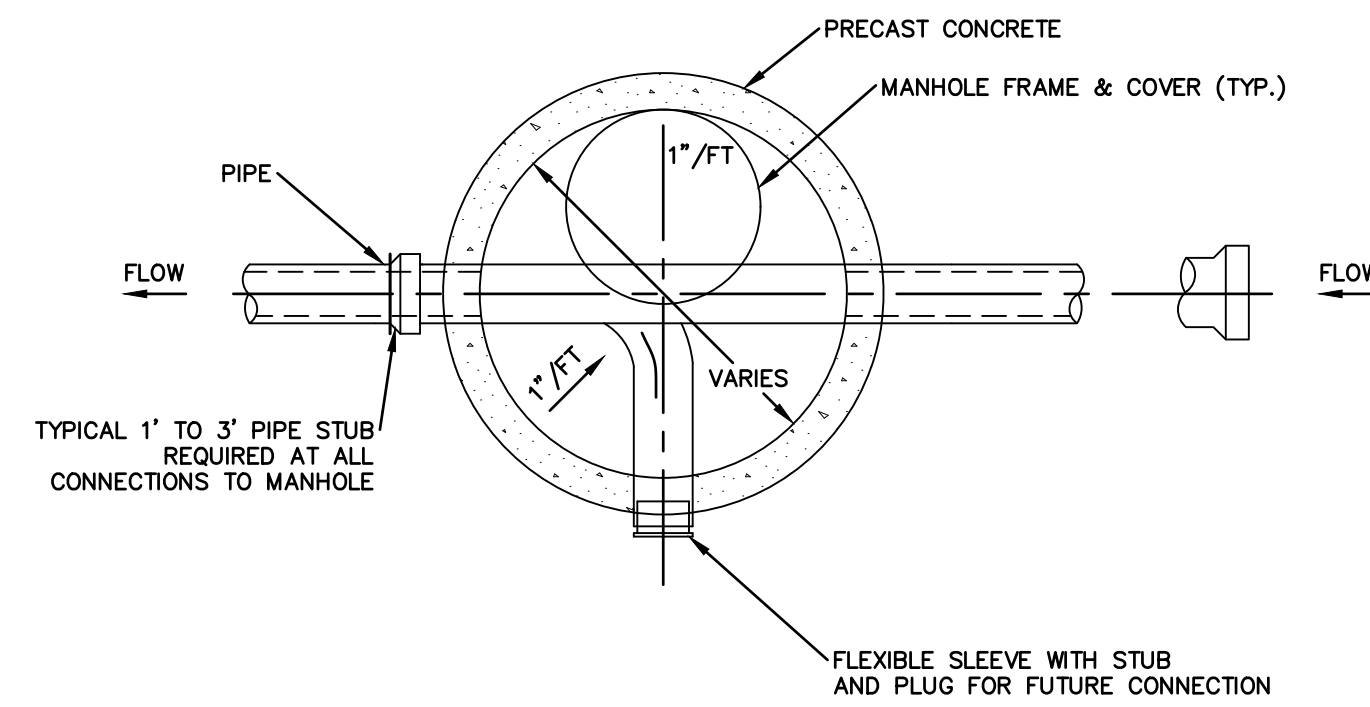
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MANHOLE NOTES

1. INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST.
2. CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
3. INVERT BRICK SHALL BE LAID ON EDGE.
4. BITUMINOUS WATERPROOF COATING TO BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
5. MANHOLE FRAME AND COVER SHALL BE JORDAN IRONWORKS HINGE COVER PER CITY OF PORTSMOUTH STANDARD.
6. HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC PR MASTIC-LIKE SEALANT.
7. BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06.
8. INTERIOR OF SEWER MANHOLES SHALL BE LINED IN ACCORDANCE WITH SECTION 33 01 30.63.

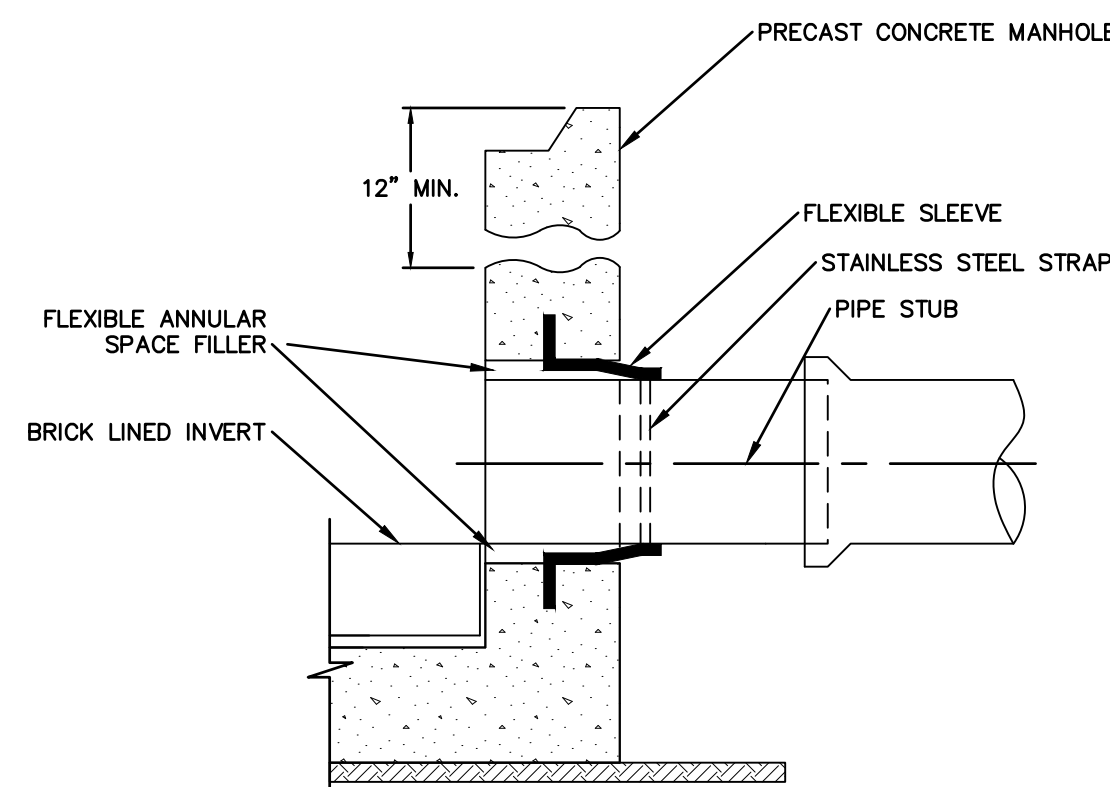
MANHOLE NOTES

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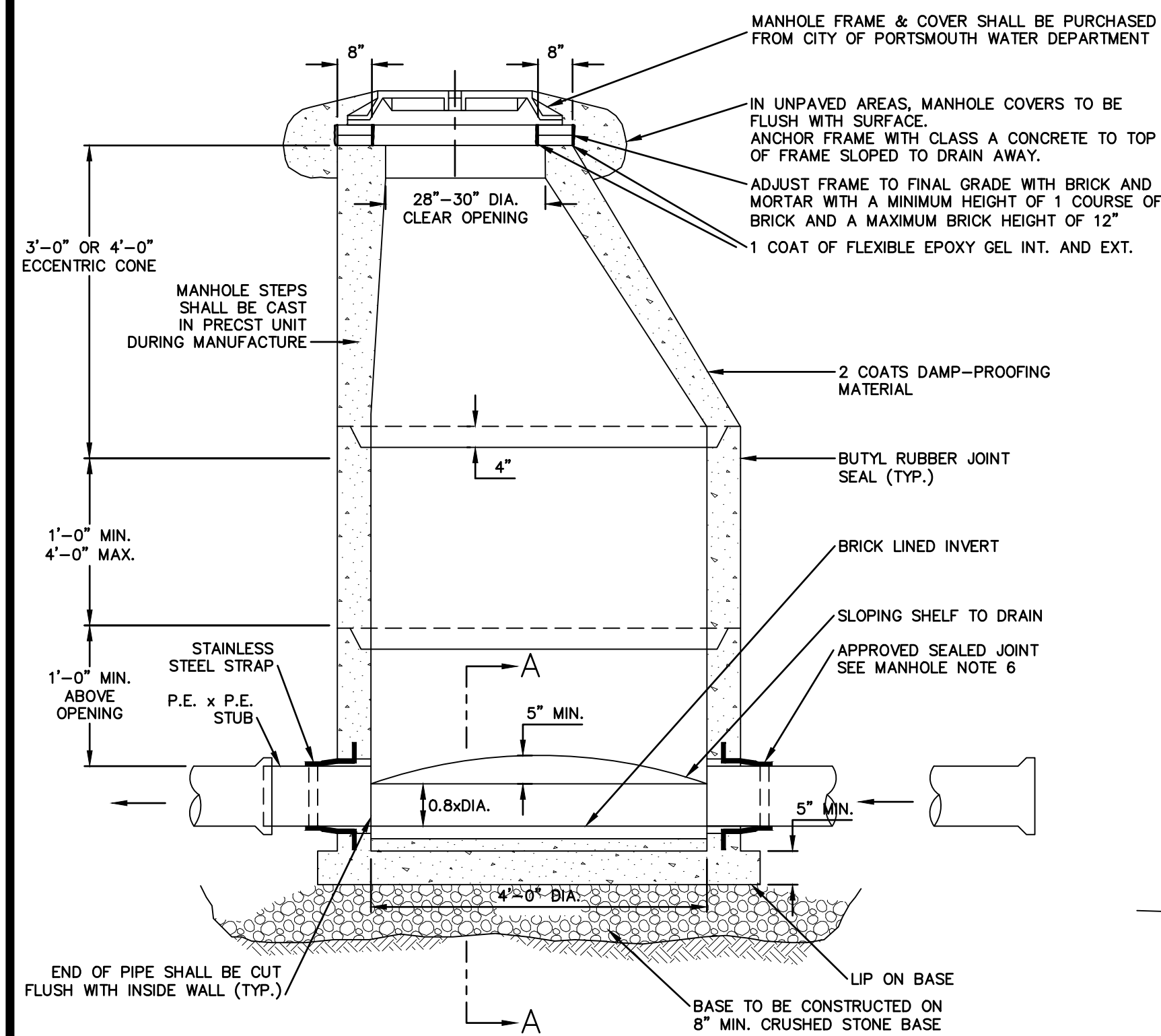
MANHOLE PLAN VIEW

SCALE: N.T.S.



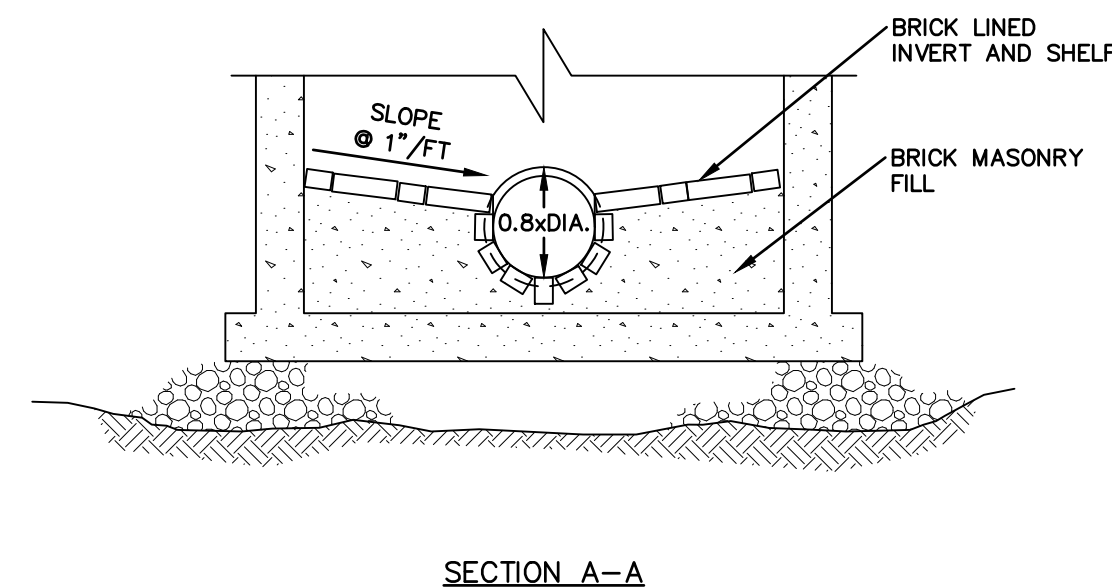
FLEXIBLE SLEEVE

SCALE: N.T.S.

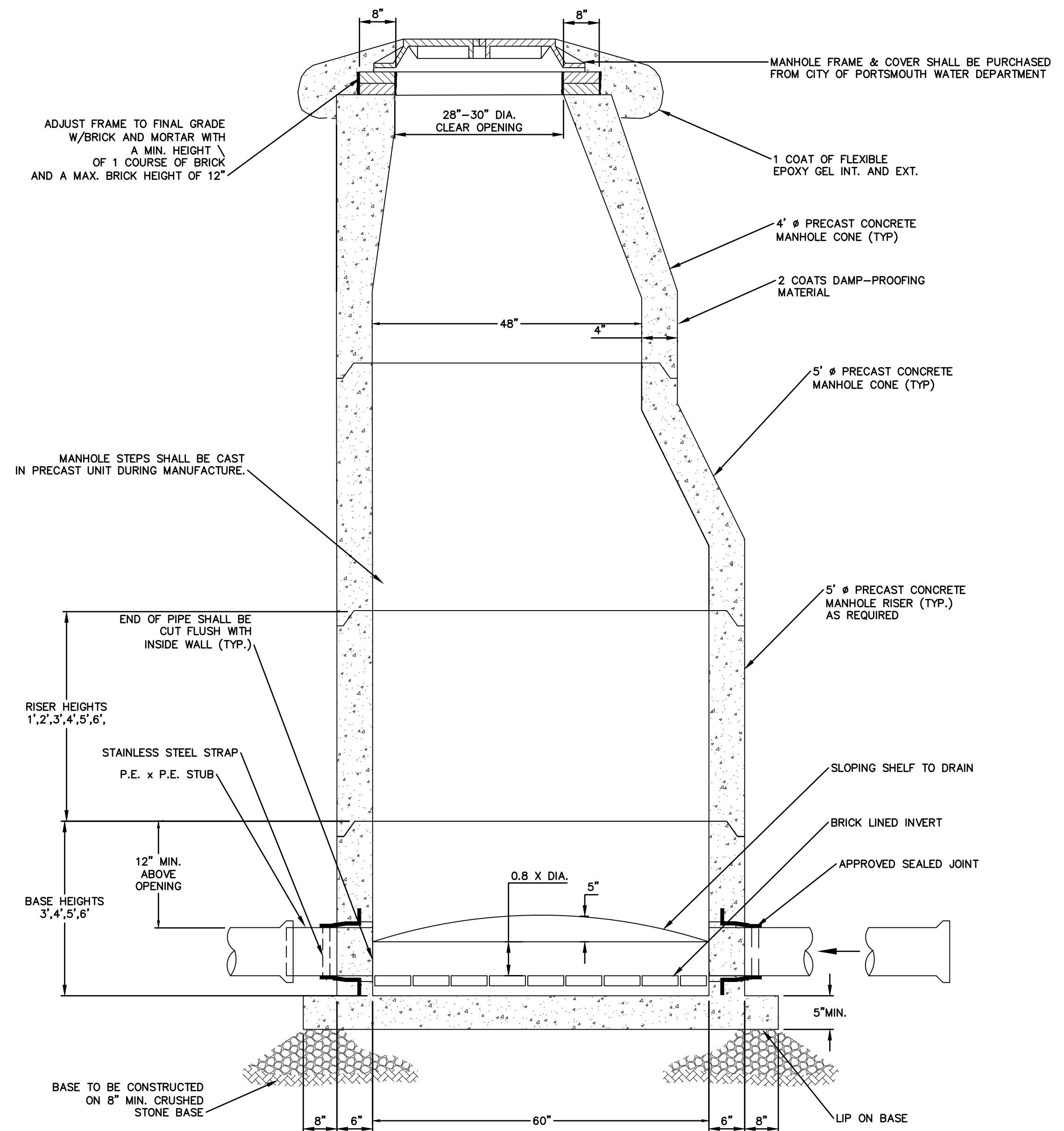


4' PRECAST MANHOLE

SCALE: N.T.S.



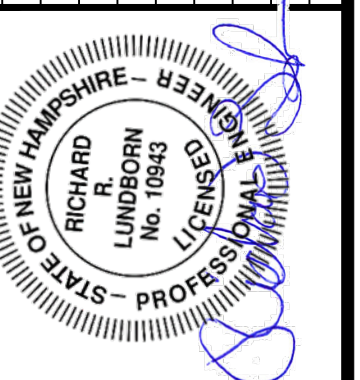
SECTION A-A



5' PRECAST MANHOLE

SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAJ	RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAJ	RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAJ	RRL



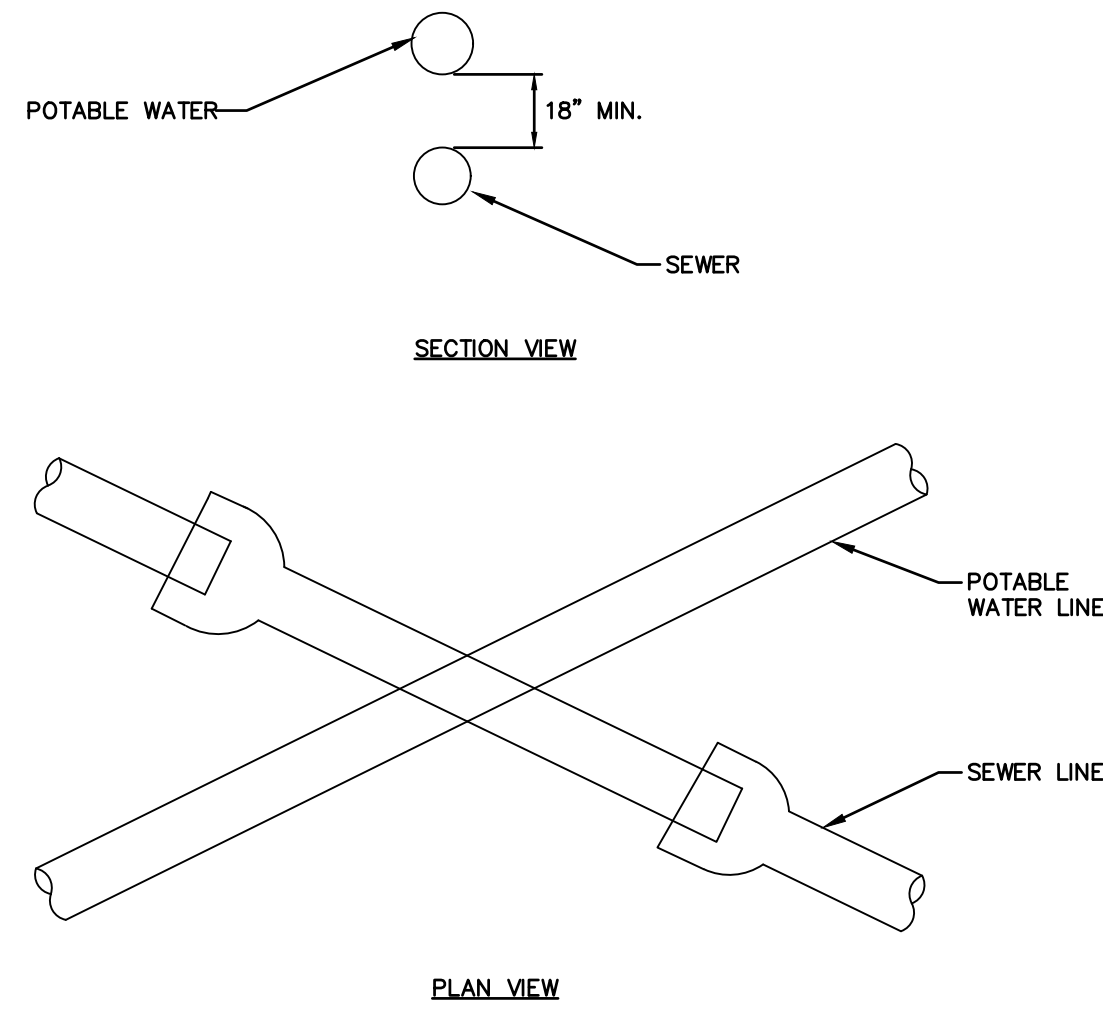
SCALE:	HORIZ.: N.T.S.
	VERT.: N.T.S.
DATUM:	HORIZ.: N.T.S.
	VERT.: N.T.S.

FUSS & O'NEILL
 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
 www.fandoc.com

CATE STREET DEVELOPMENT, LLC
SEWER DETAILS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 06/20/2019

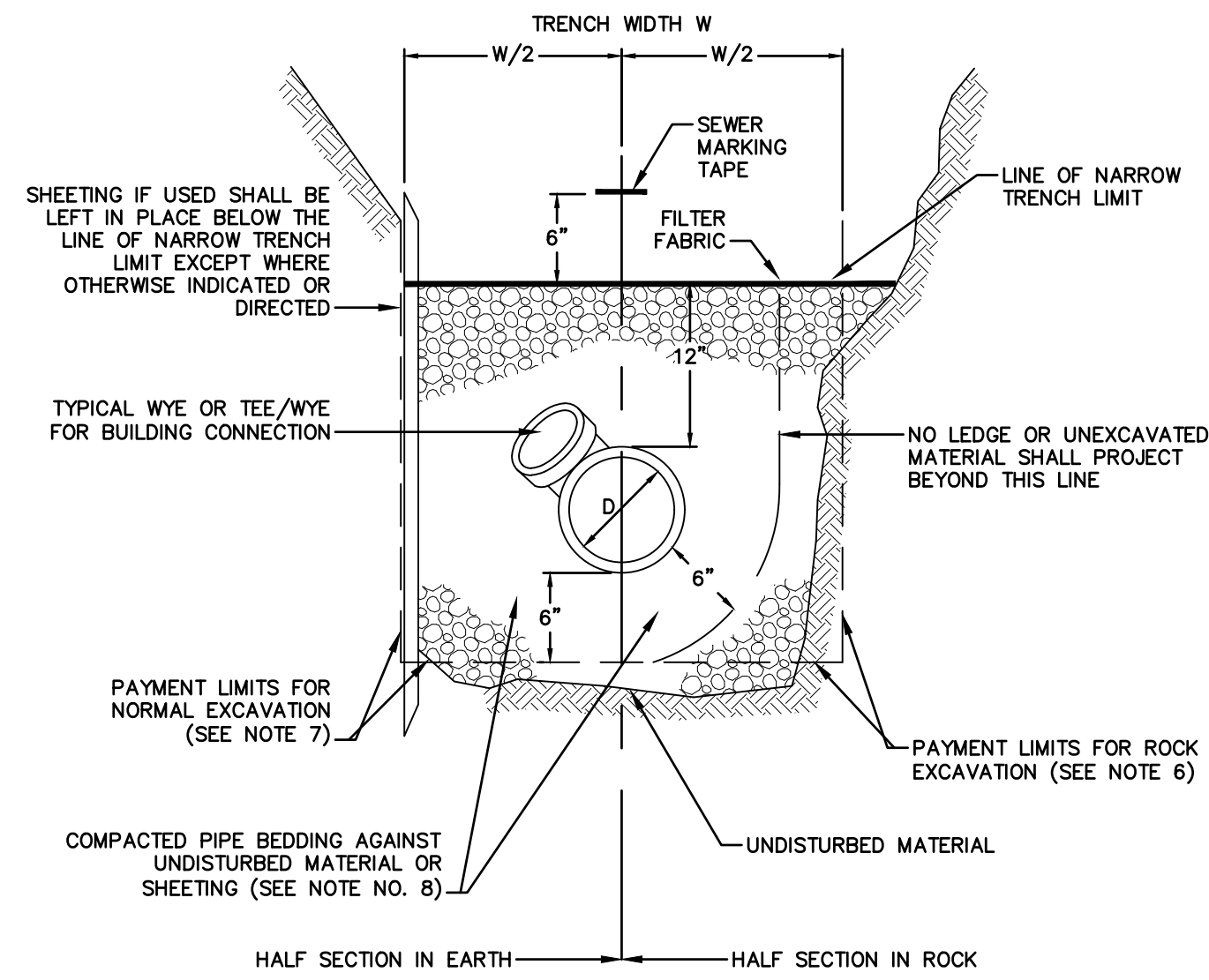
CD-530



SEWER AND WATER CROSSING NOTES

- SEWER JOINTS SHALL BE EQUIDISTANT FROM AND LOCATED AS FAR AS POSSIBLE AWAY FROM THE WATER LINE
- IF THE VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER IS LESS THAN 18 INCHES (WATER MAIN IS ABOVE SEWER), USE ONE OF THE FOLLOWING PROCEDURES: A) THE WATER MAIN SHALL BE RECONSTRUCTED FOR A DISTANCE OF 10 FEET ON EACH SIDE OF SEWER WITH RUBBER-GASKETED MECHANICAL JOINT PIPE ONE FULL LENGTH WATER MAIN SHOULD BE CENTERED OVER SEWER, B) CONSTRUCT BOTH THE WATER & SEWER PIPE OF RUBBER-GASKETED, CEMENT-LINED DUCTILE IRON PIPE OR EQUIVALENT AND PRESSURE TEST BOTH PIPES, OR C) ENCASE BOTH PIPES IN CONCRETE.

CROSSING OF SEWER & POTABLE WATER LINES
NOT TO SCALE

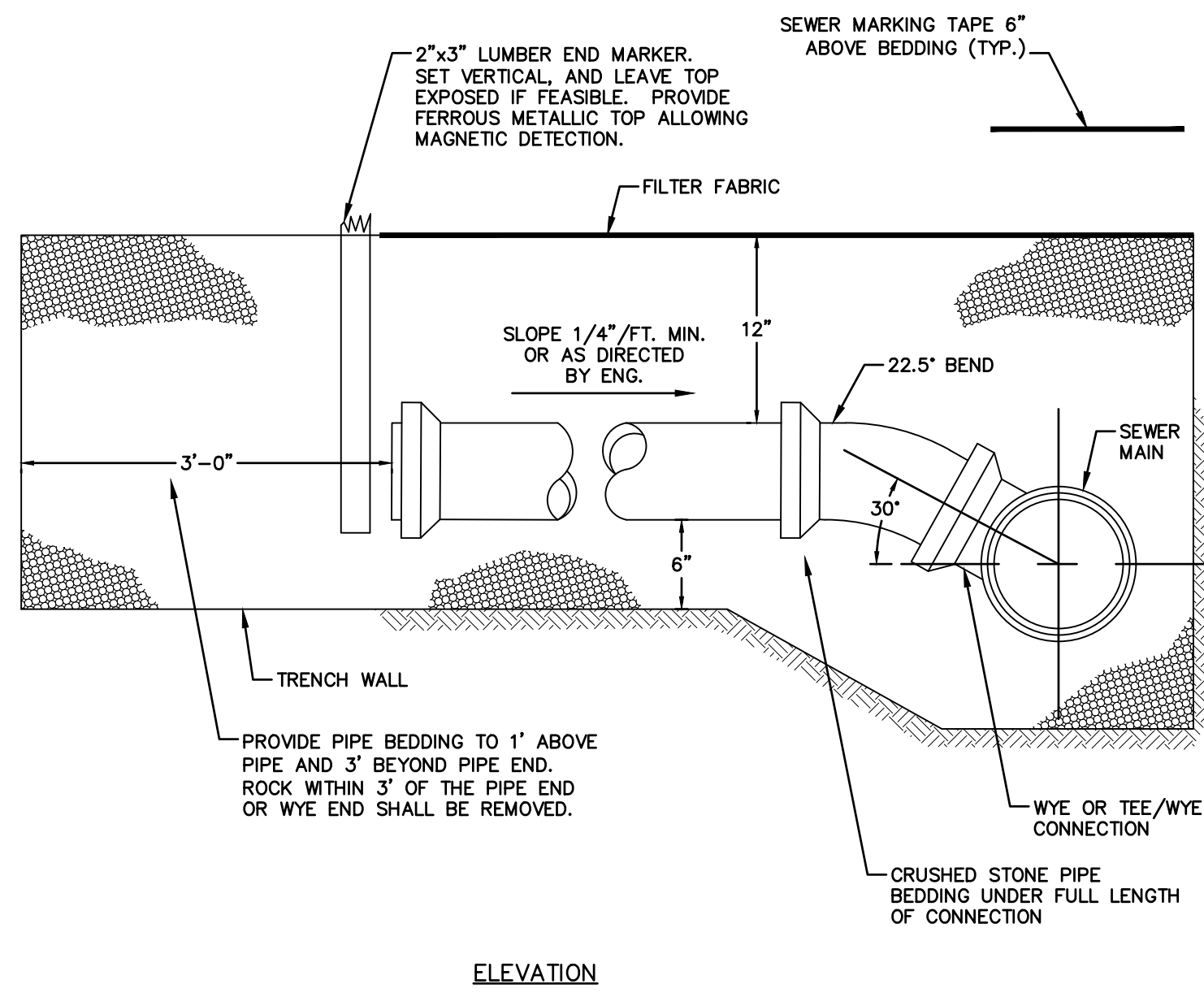


TYPICAL SEWER TRENCH
NOT TO SCALE

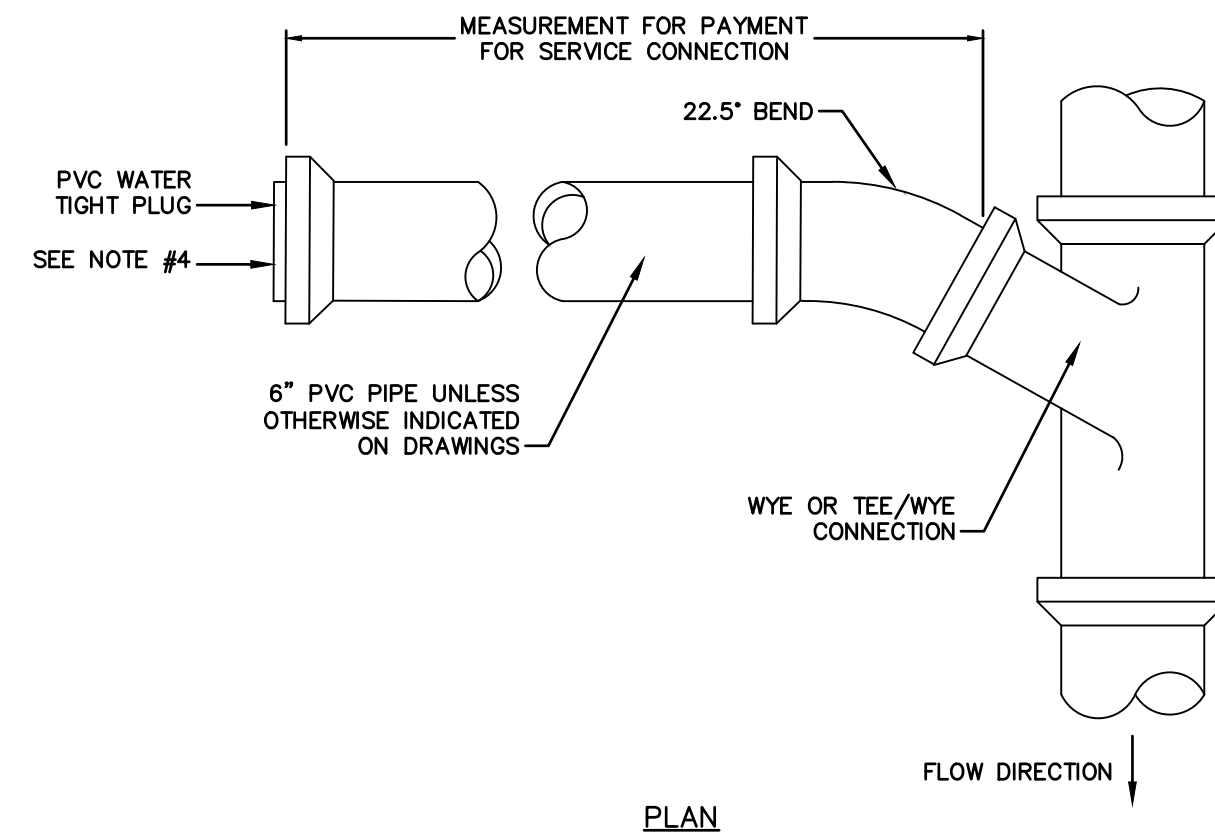
SANITARY SEWER PIPE TRENCH NOTES

- DEPTH OF SEWER SHALL BE AS SHOWN ON DRAWINGS.
 - SEWER TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH W ABOVE THE "LINE OF NARROW TRENCH LIMIT." AT THE CONTRACTORS EXPENSE.
 - BELOW THE "LINE OF NARROW TRENCH LIMIT" THE TRENCH SHALL NOT BE EXCAVATED BEYOND THE TRENCH WIDTH W.
 - IF EXCAVATION AND BACKFILL BELOW NORMAL DEPTH IS REQUIRED, SHEETING MAY BE ORDERED.
 - SHEETING, IF USED, IN ALL CASES SHALL BE LEFT IN PLACE BELOW A LINE 1'-0" ABOVE THE TOP OF THE SEWER PIPE, UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER.
 - ALL ROCK WITHIN 3'-0" HORIZONTALLY OF THE ENDS OF BUILDING CONNECTIONS, BRANCHES AND STUBS, AND DOWN TO A HORIZONTAL PLANE 6" BELOW THE BOTTOMS OF SUCH ITEMS SHALL BE REMOVED.
 - TRENCH WIDTHS AND PAYMENT LIMIT SHALL BE AS FOLLOWS:
- | NUMBER OF PIPE IN TRENCH | DIAMETER PIPE "D" | TRENCH WIDTH "W" | PAYMENT LIMIT |
|--------------------------|-------------------|------------------|---------------|
| ONE | 12" AND SMALLER | 4'-0" | 4'-0" |
| TWO | 12" AND SMALLER | 7'-0" | 7'-0" |
- WHERE CONCRETE ENCASEMENT IS CALLED FOR BY THE PLANS, OR WHEN DIRECTED BY THE ENGINEER, REPLACE BEDDING AND BACKFILL BELOW THE "LINE OF NARROW TRENCH LIMIT" WITH CLASS "A" CONCRETE.
 - SEWER MARKING TAPE SHALL BE INSTALLED A MINIMUM OF 18" ABOVE THE SANITARY SEWER, FORCE MAIN AND SERVICE CONNECTION PIPE.
 - SANITARY SEWER PIPE AND SERVICE CONNECTION PIPE SHALL HAVE FILTER FABRIC INSTALLED ON TOP OF THE PIPE BEDDING AS SHOWN ON THE DETAILS.

SANITARY SEWER PIPE TRENCH NOTES
SCALE: N.T.S.

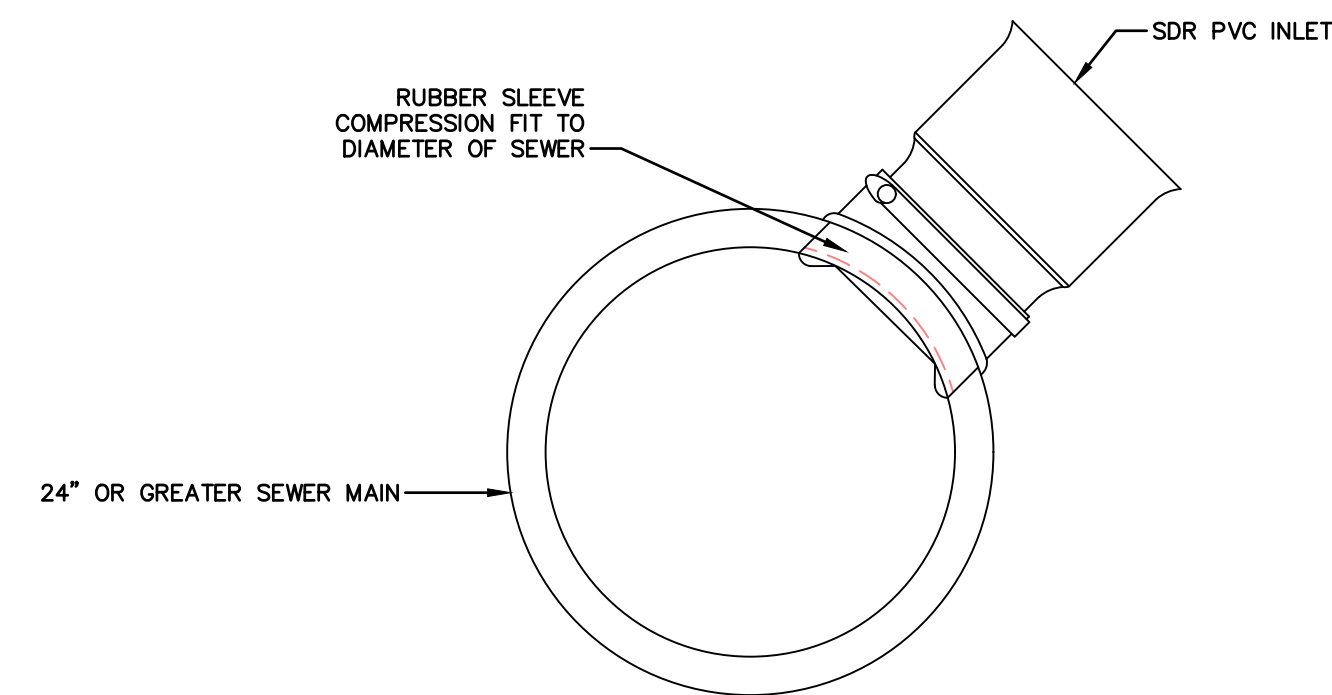


SERVICE CONNECTIONS
NOT TO SCALE



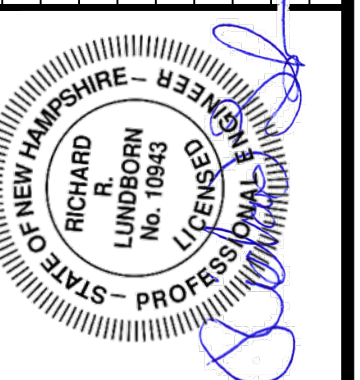
SERVICE CONNECTION NOTES

- NO LEDGE OR UNEXCAVATED MATERIAL SHALL PROJECT WITHIN 6" OF THE PIPE IN ANY DIRECTION
- EXACT LOCATION AND ELEVATION OF SERVICE CONNECTIONS TO BE DETERMINED AND SET IN THE FIELD DURING CONSTRUCTION
- EXACT LOCATION OF WYES/TEES, WHERE DIRECTED TO BE INSTALLED, SHALL BE SET IN THE FIELD DURING CONSTRUCTION
- PROVIDE DI TO PVC TRANSITION COUPLING AT END OF DI SERVICE CONNECTION



INSERTA TEE - SERVICE CONNECTION 24" MAIN & LARGER
N.T.S.

No.	DATE	DESCRIPTION	DESIGNER/REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD



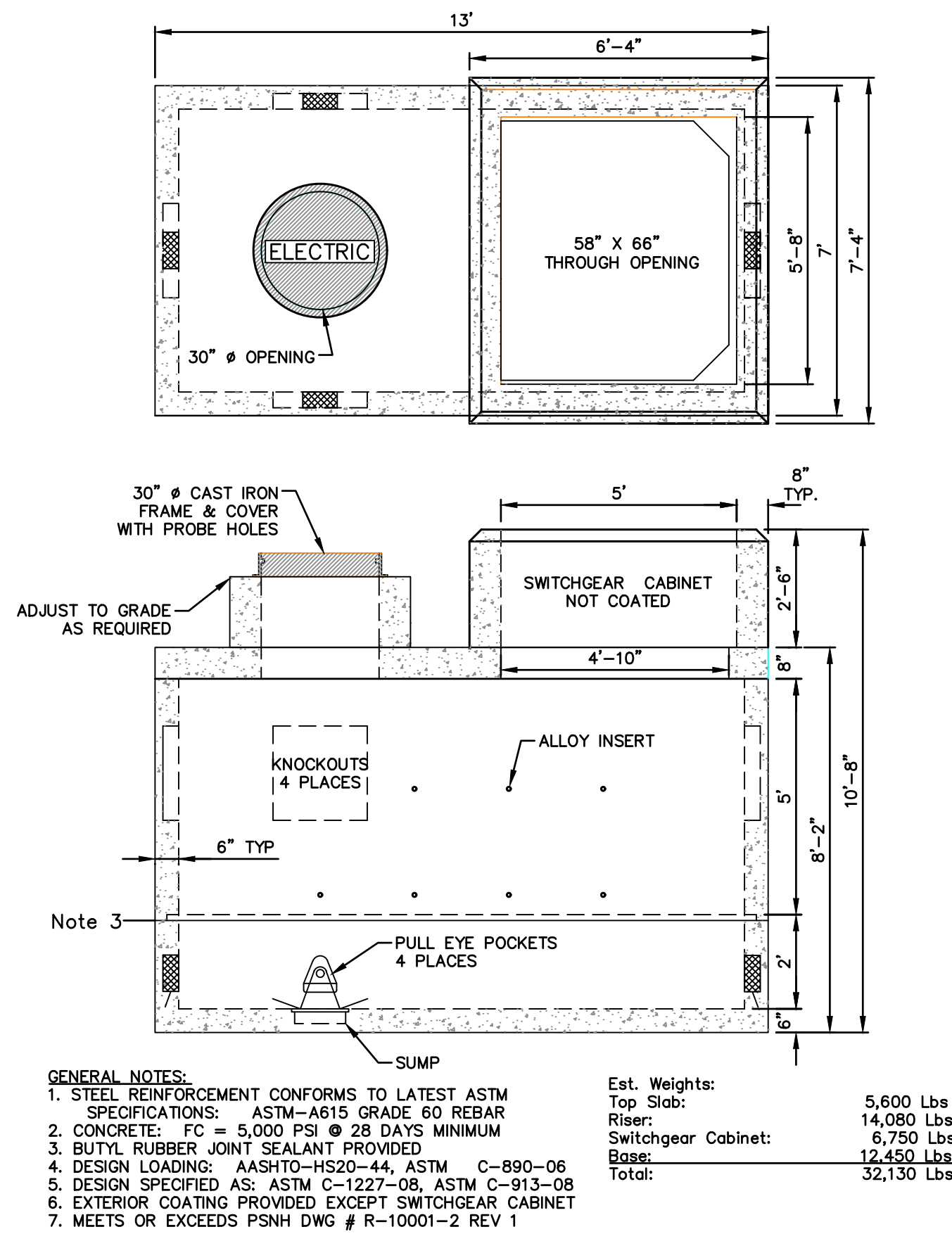
SCALE:	HORIZ.: N.T.S.
	VERT.: N.T.S.
DATUM:	HORIZ.: N.T.S.
	VERT.: N.T.S.
	GRAPHIC SCALE

FUSS & O'NEILL
 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
 www.fandoc.com

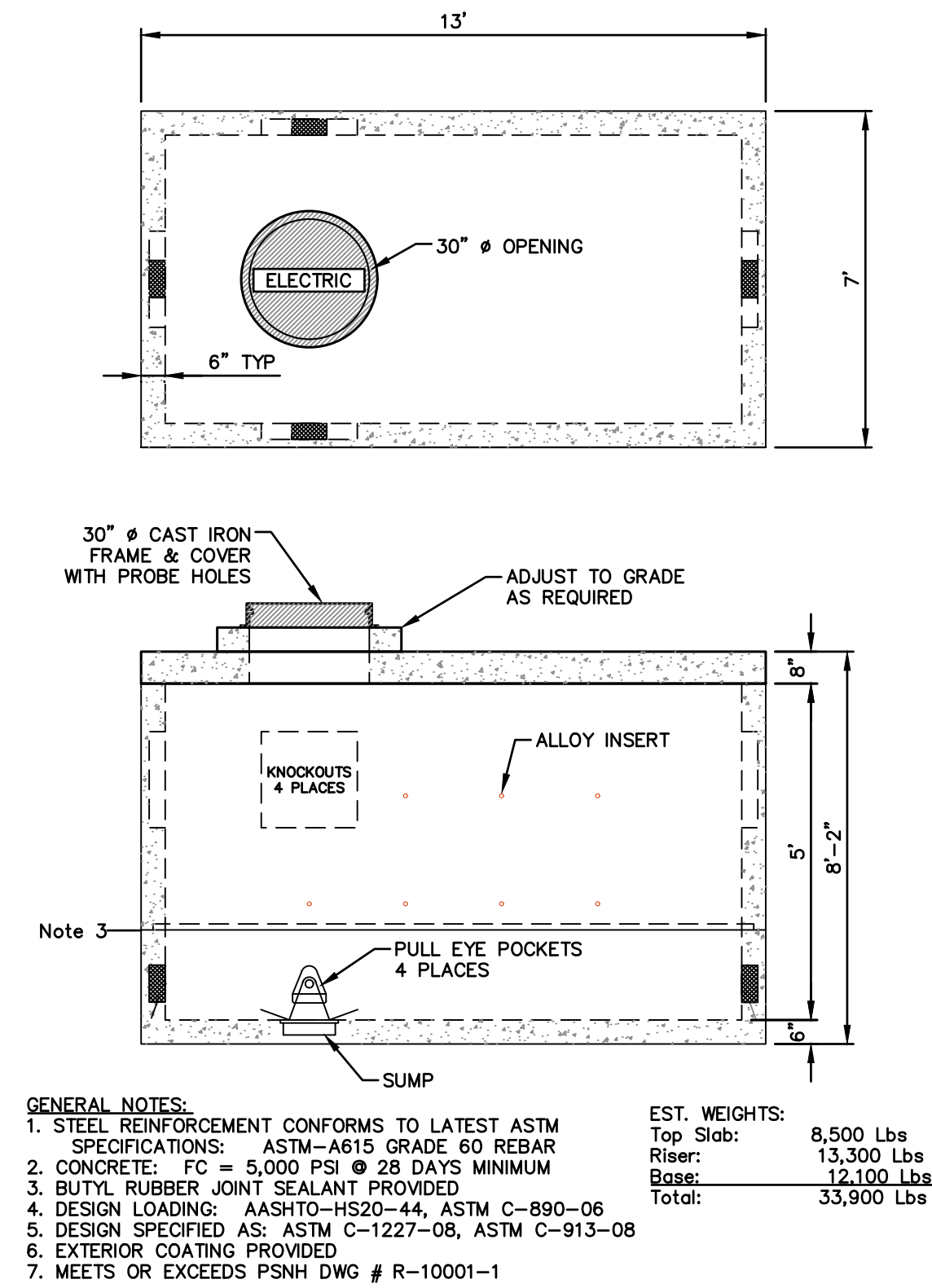
CATE STREET DEVELOPMENT, LLC
 SEWER DETAILS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 06/20/2019
CD-531

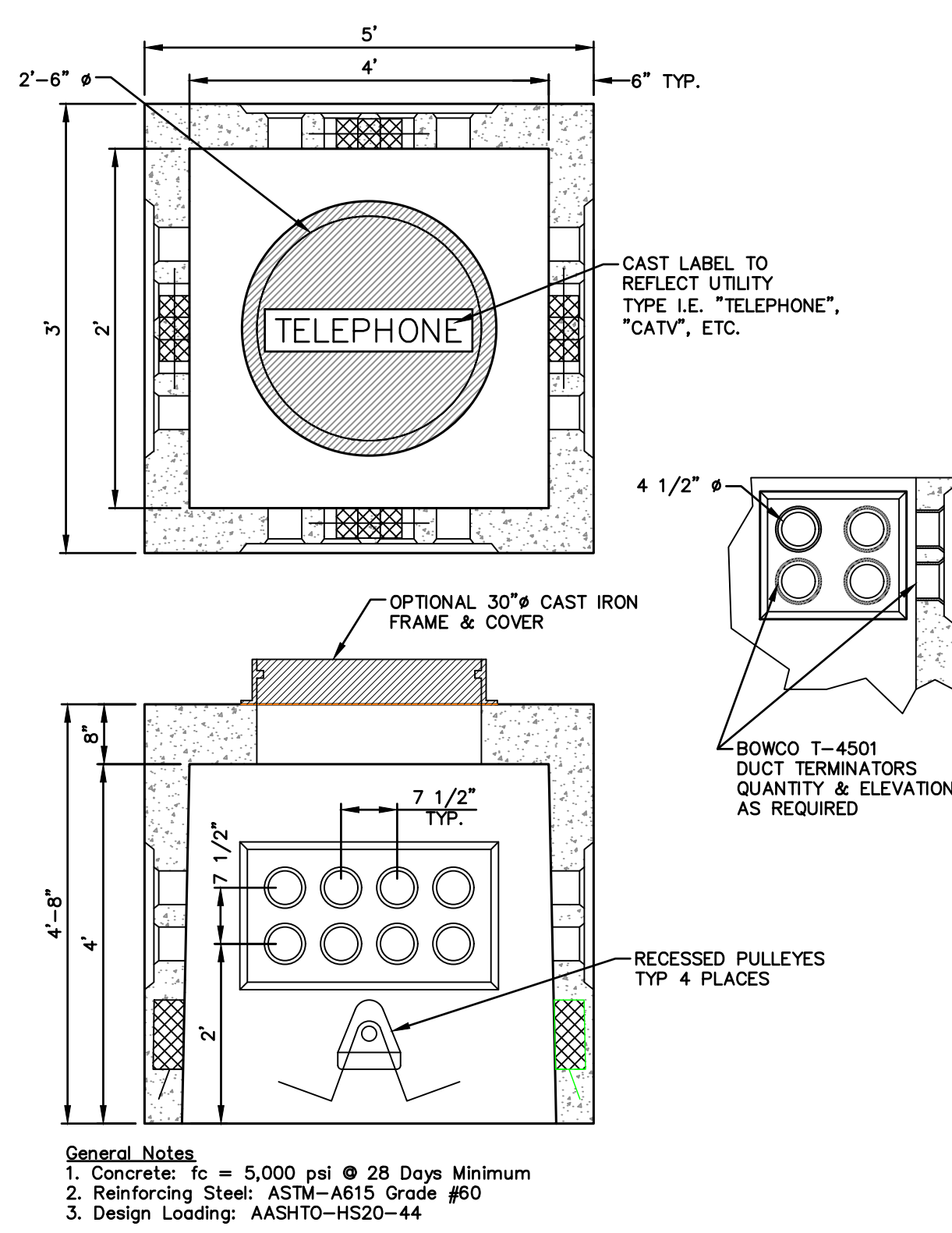
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 MS VIEW: LAYER STATE: Plotter: DWG TO PDF-PC3 CTB File: FO.STB



EVERSOURCE SWITCHGEAR CABINET ASSEMBLY
 NOT TO SCALE

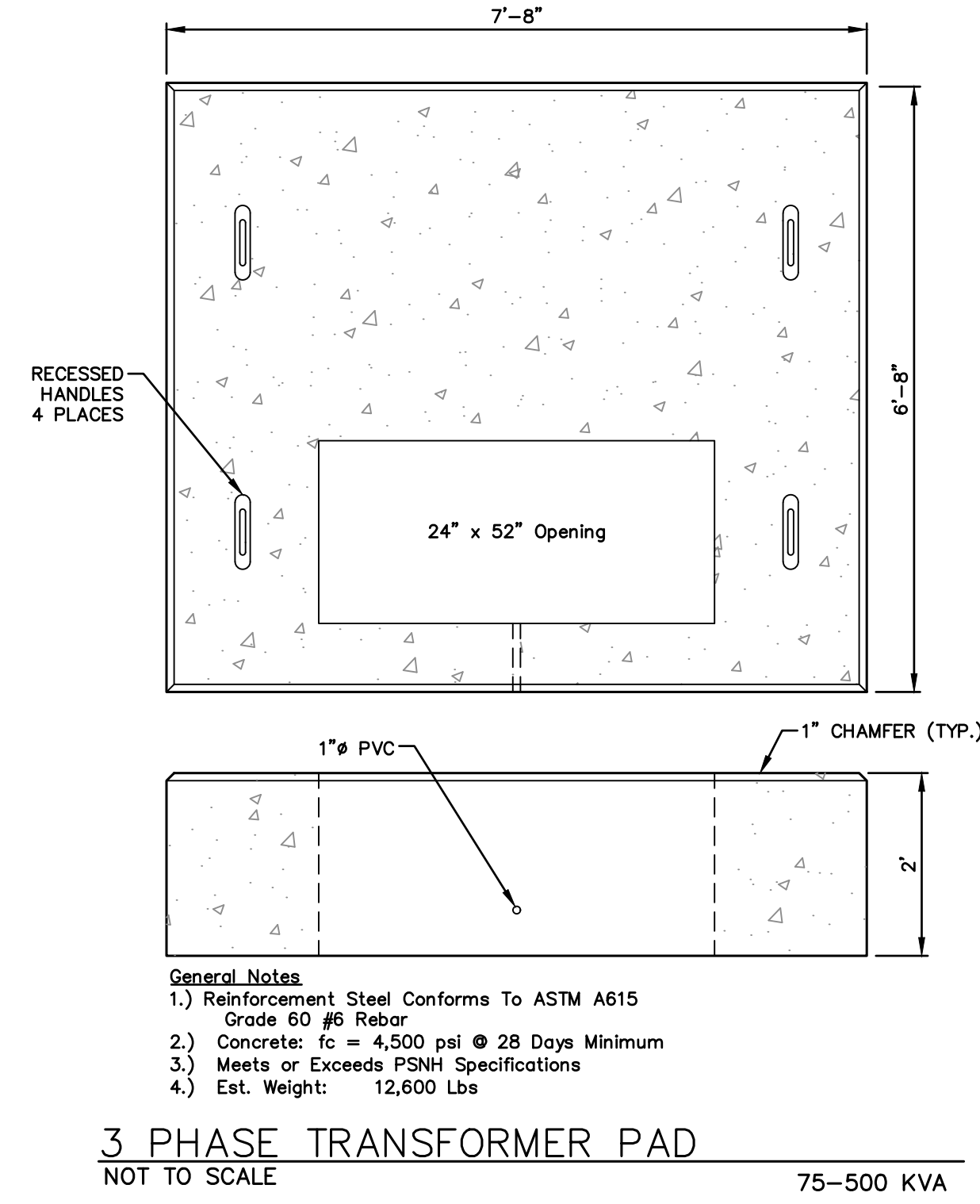
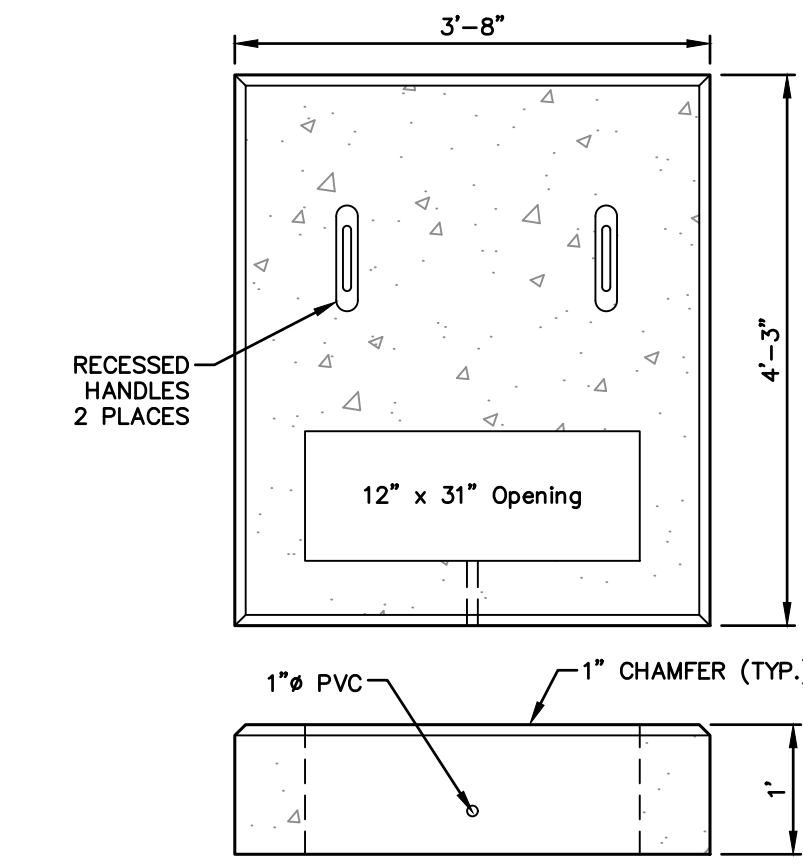


EVERSOURCE MANHOLE ASSEMBLY
 NOT TO SCALE

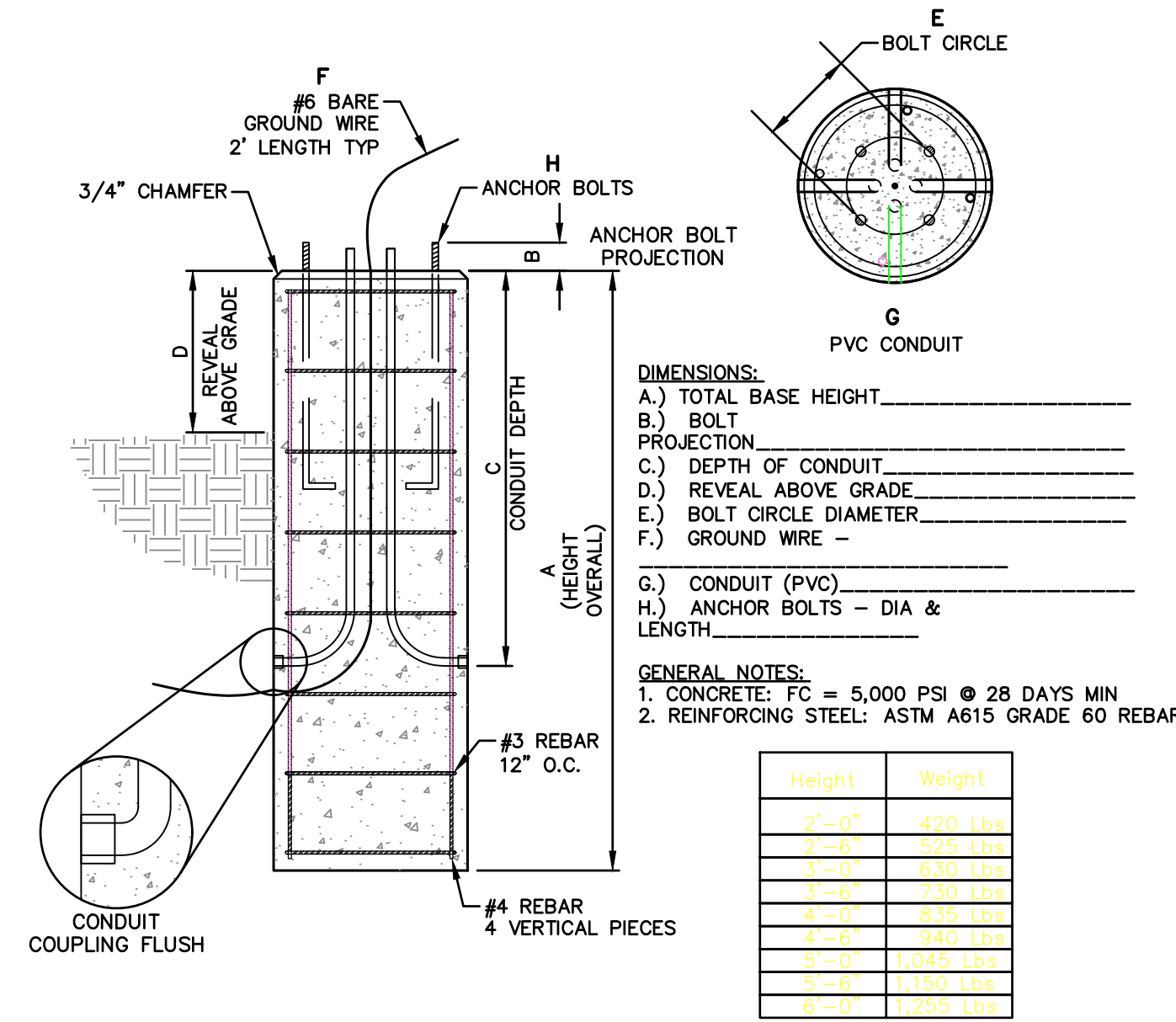


4'x4'x4' HANDHOLE
 NOT TO SCALE

SINGLE-PHASE TRANSFORMER PAD
 NOT TO SCALE 25-75 KVA



3 PHASE TRANSFORMER PAD
 NOT TO SCALE 75-500 KVA

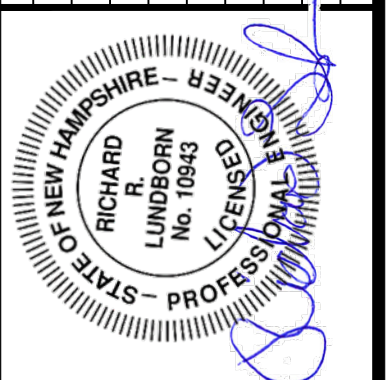


16" Ø LIGHT POLE BASE
 NOT TO SCALE

NOTES:
 1. ALL PRECAST CONCRETE STRUCTURES TO BE PHOENIX PRECAST PRODUCTS OR EQUAL.

PHOENIX PRECAST PRODUCTS
 77 REGIONAL DRIVE
 CONCORD, NH 03301
 1.800.639.2199
 info@phoenixprecast.com

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD	RRL

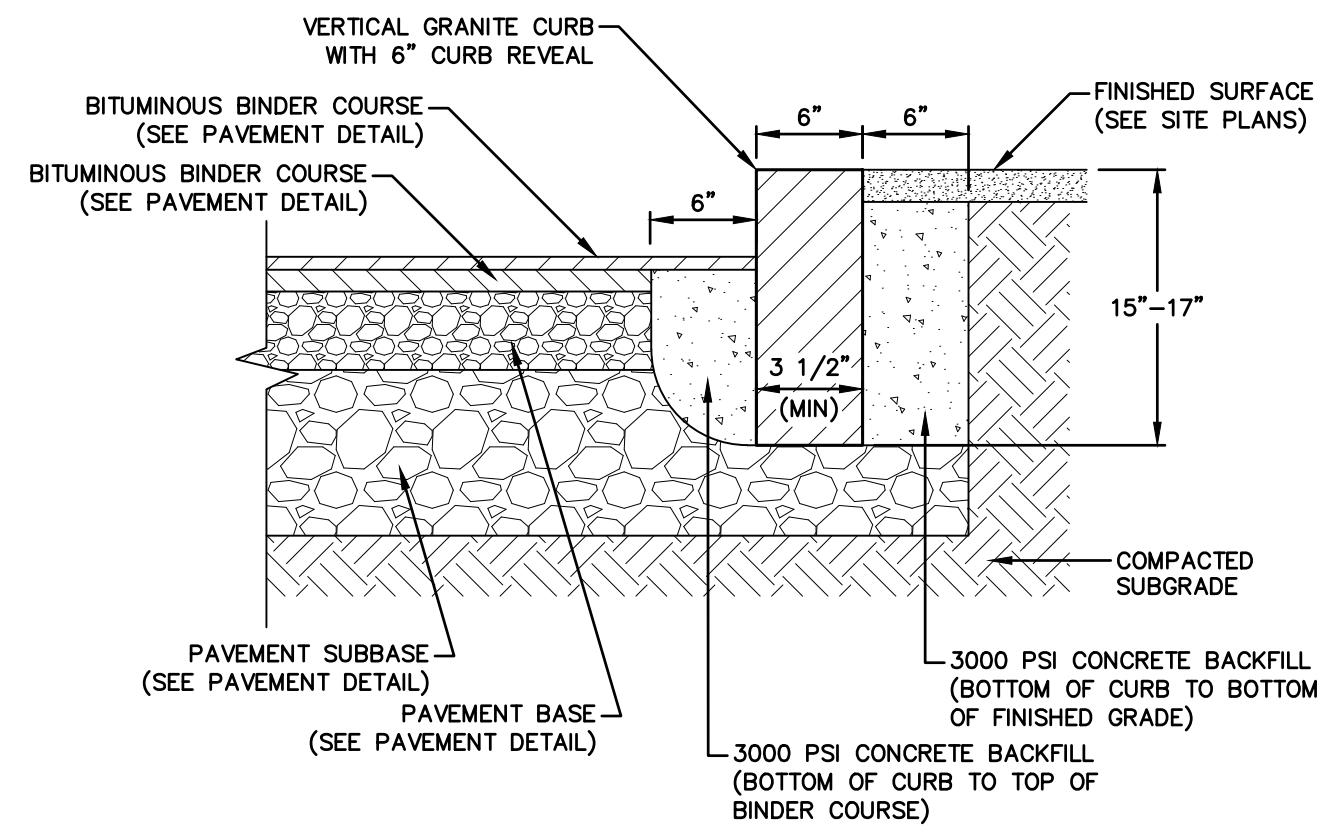


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DATUM:	HORIZ: 0	VERT: 0
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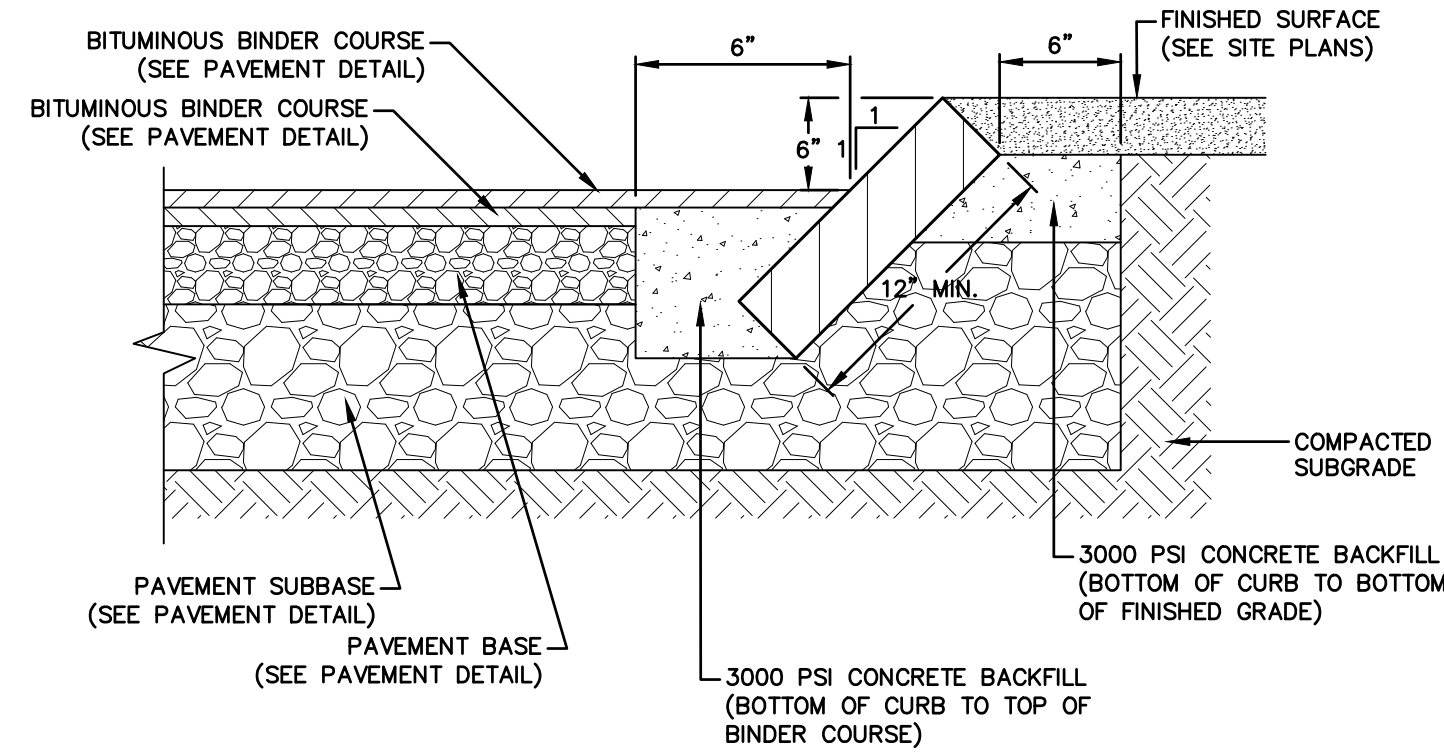
FUSS & O'NEILL
 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
 www.fandoc.com

CATE STREET DEVELOPMENT, LLC
 UTILITY DETAILS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

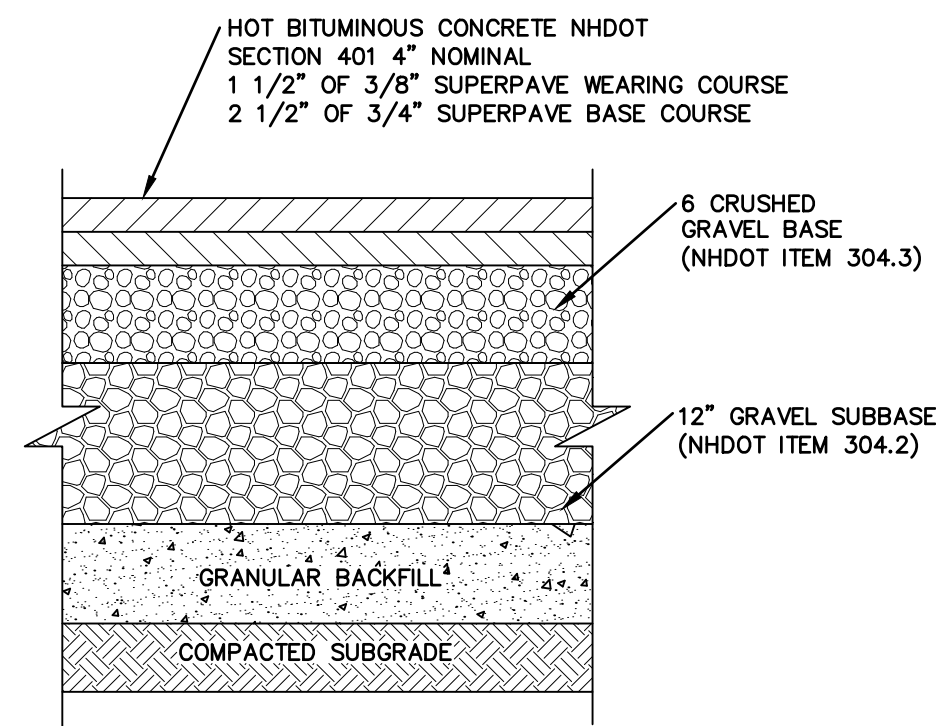
PROJ. No.: 20180317.A10
 DATE: 06/20/2019
CD-540



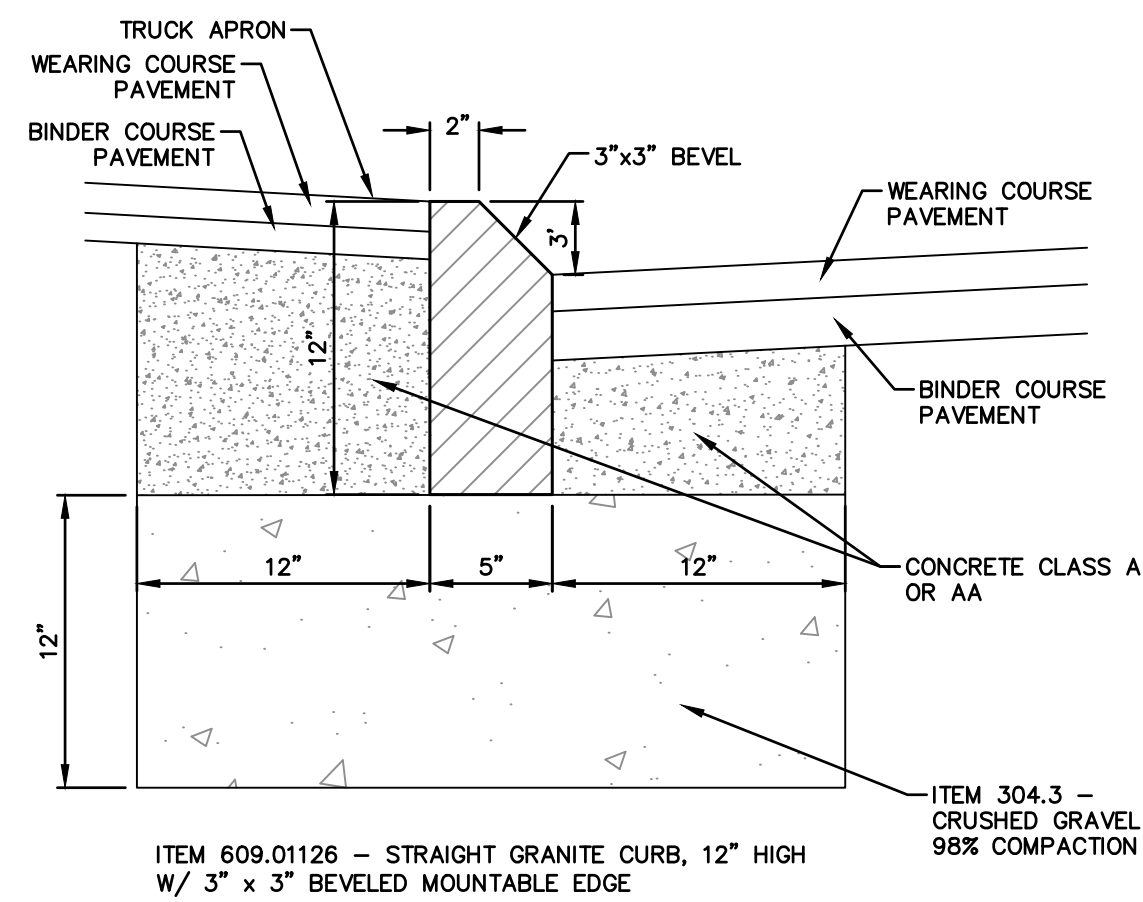
VERTICAL GRANITE CURB INSTALLED
SCALE: NOT TO SCALE



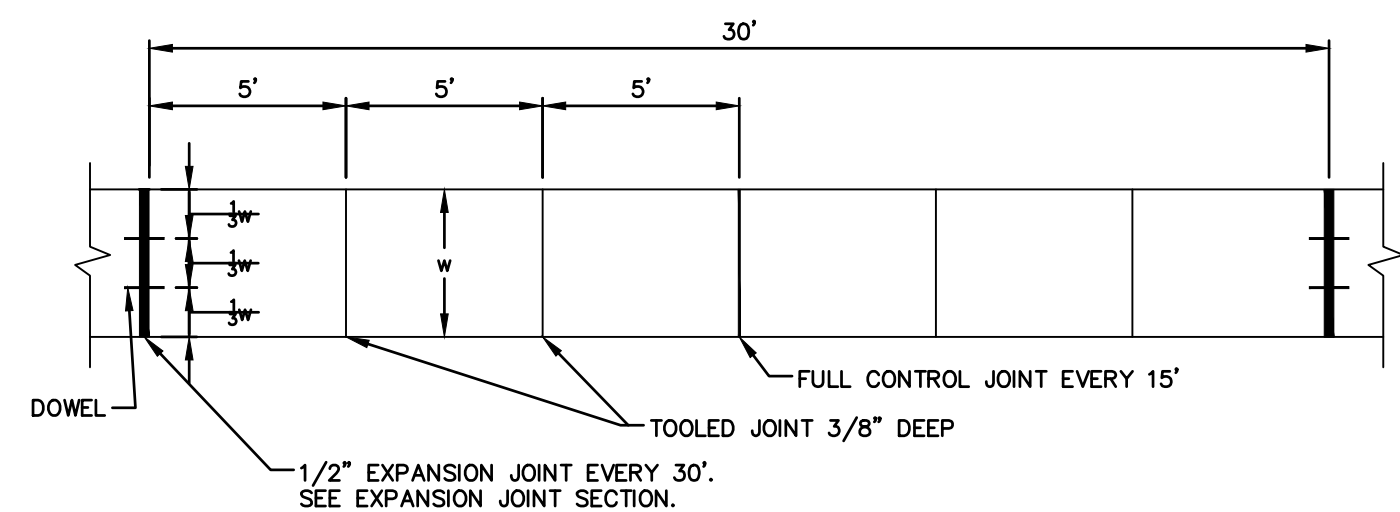
SLOPED GRANITE CURB INSTALLED
SCALE: NOT TO SCALE



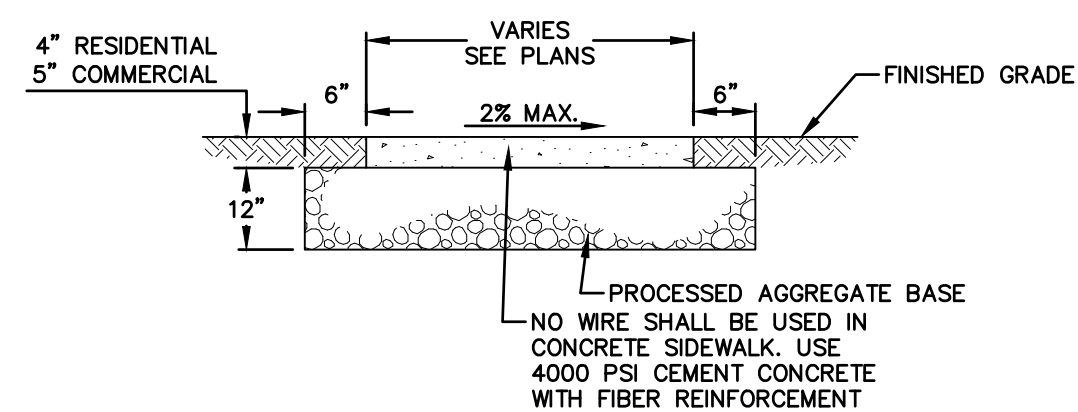
TYPICAL SITE PAVEMENT SECTION
SCALE: NOT TO SCALE



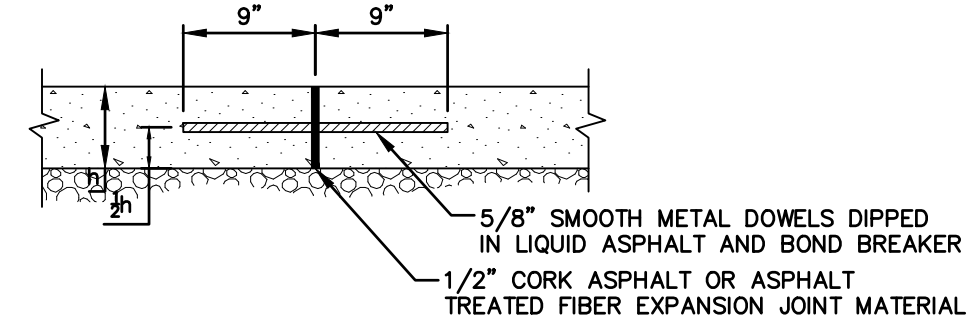
MOUNTABLE GRANITE CURB INSTALLED
NOT TO SCALE



PLAN

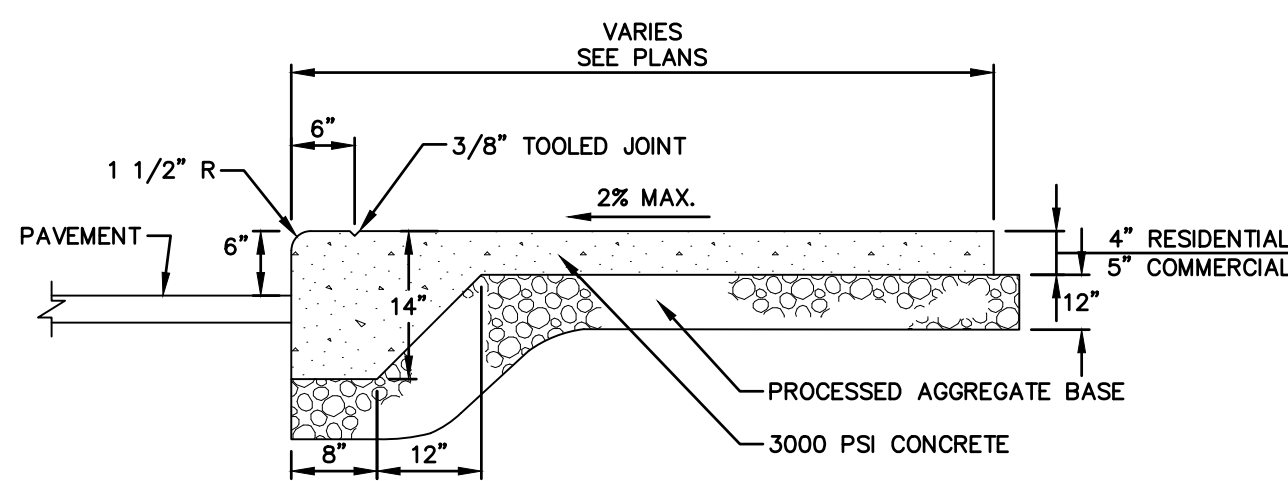


SIDEWALK SECTION

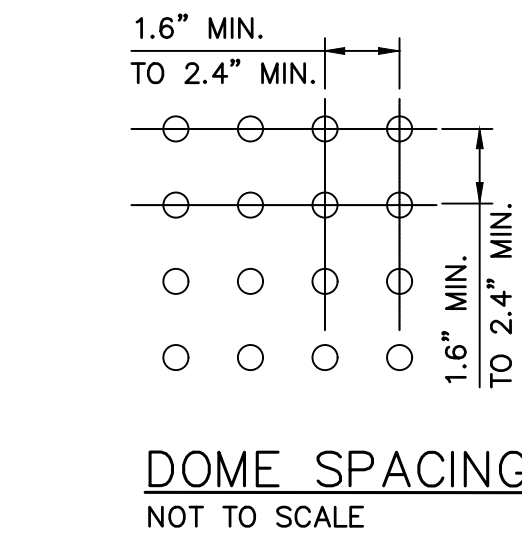


EXPANSION JOINT SECTION

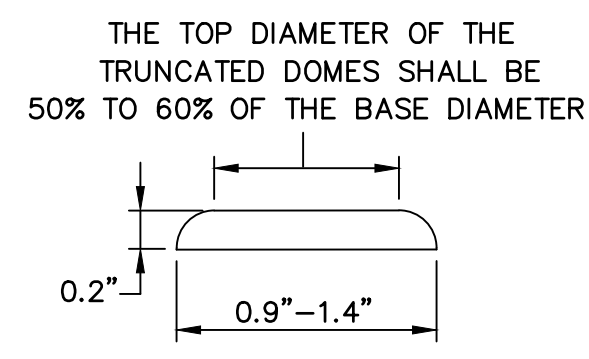
CONCRETE SIDEWALK
SCALE: NOT TO SCALE



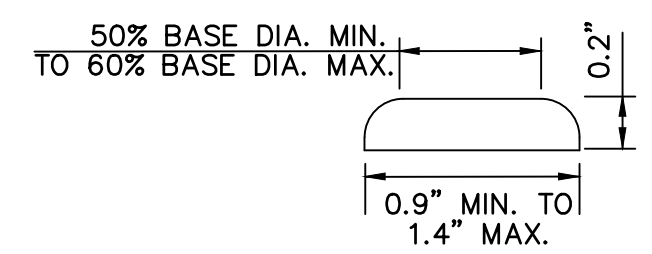
MONOLITHIC CONCRETE CURB AND WALK
SCALE: NOT TO SCALE



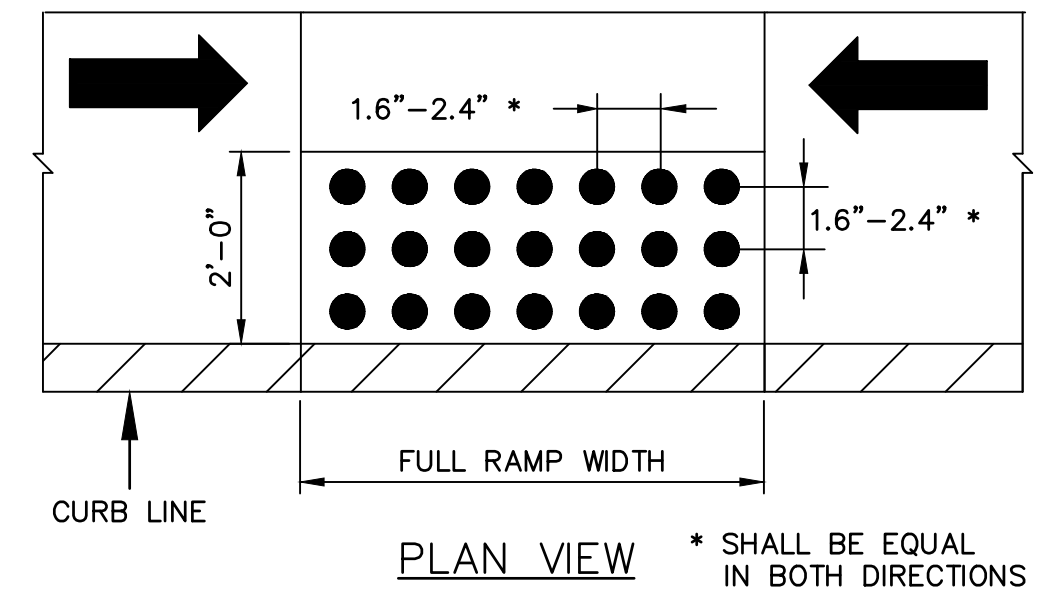
DOME SPACING
NOT TO SCALE



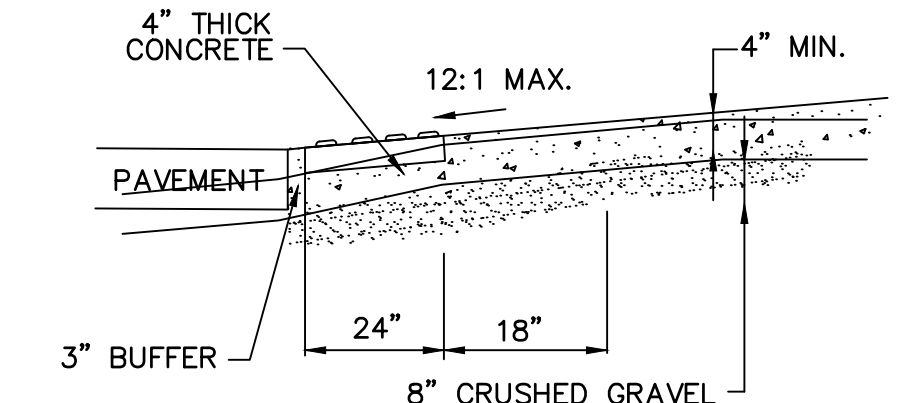
ELEVATION VIEW



DOME SECTION
NOT TO SCALE

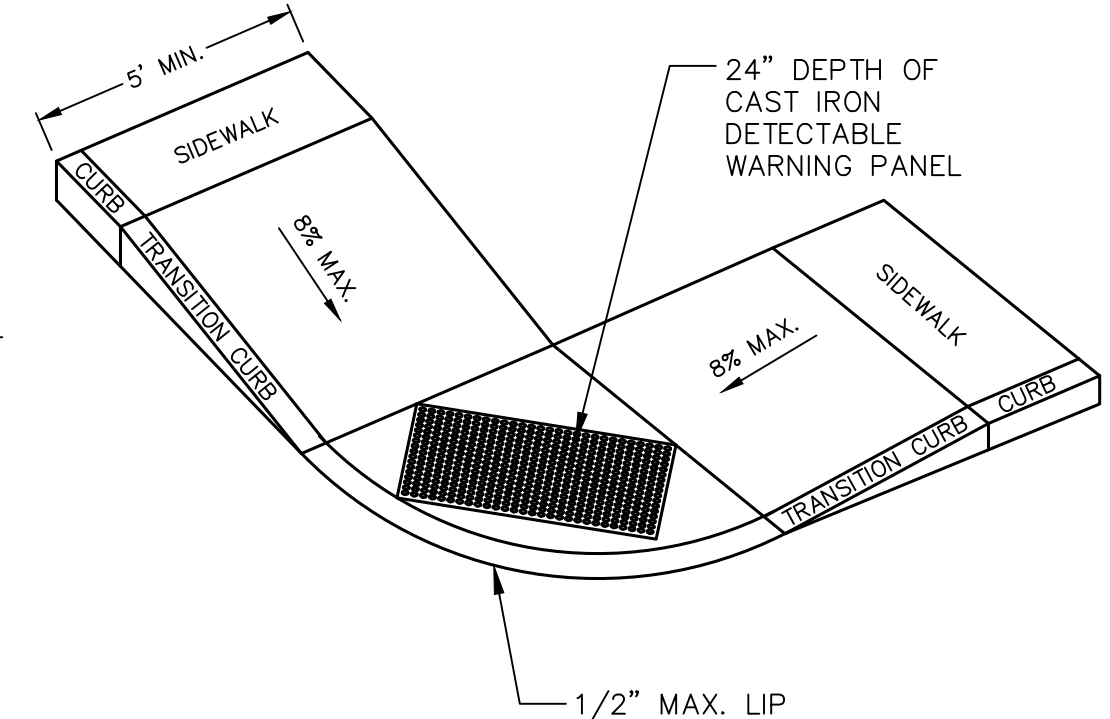


DOME AND DETECTABLE WARNING DETAILS
NOT TO SCALE
TO BE INSTALLED AT ADA WALKWAY TIPDOWNS.

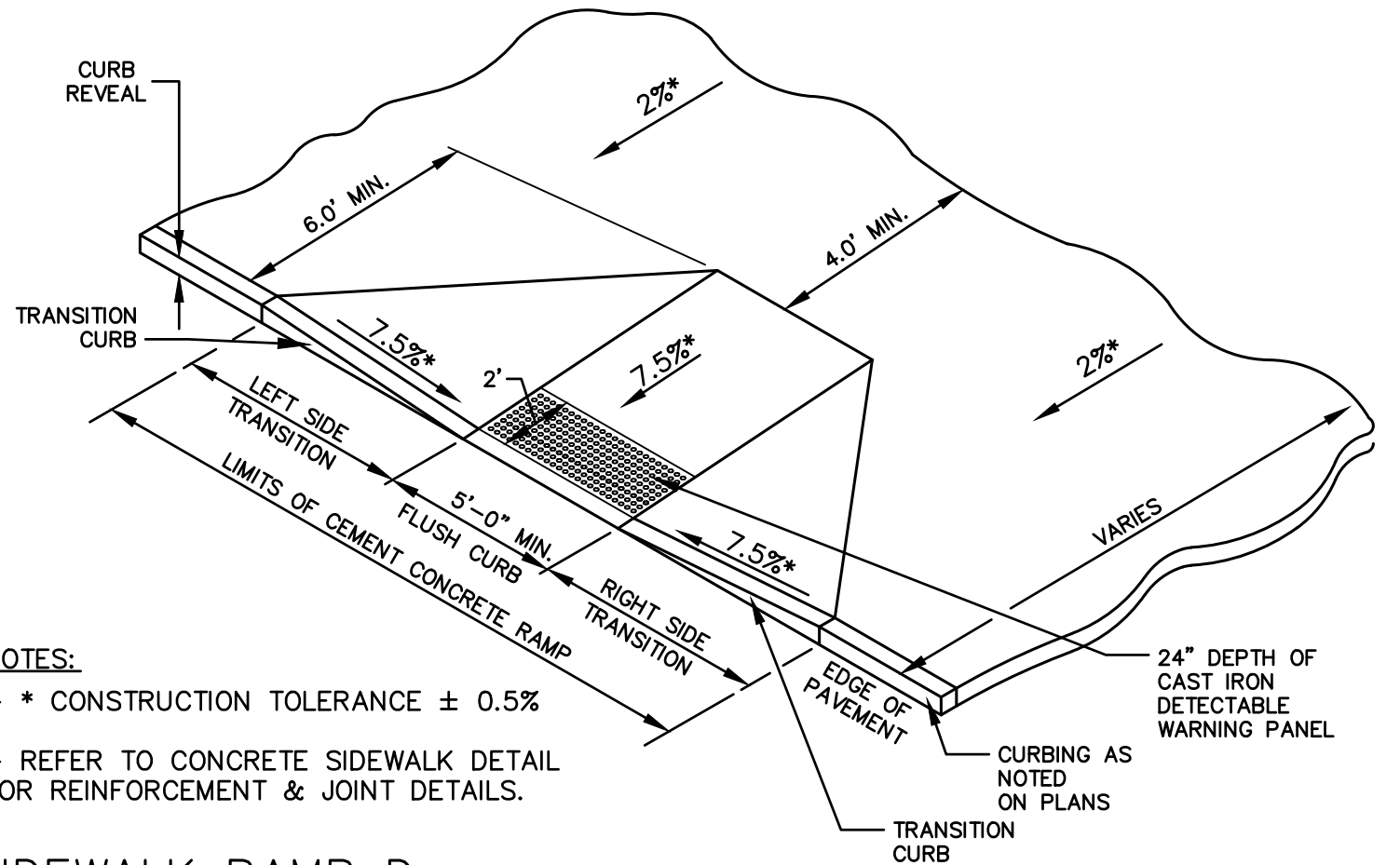


SECTION A-A
NOT TO SCALE

- NOTES:**
1. MAXIMUM ALLOWABLE ROUTE (SIDEWALK) AND CURB RAMP CROSS SLOPE SHALL BE 1.5%.
 2. MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMP SHALL BE 5%.
 3. MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMP SHALL BE 8%.
 4. MINIMUM OF 4' CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELL, SIGNS, ETC.)
 5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
 6. BASE OF RAMP SHALL BE GRADED TO PREVENT POUNDING.
 7. SEE CONCRETE SIDEWALK DETAIL FOR RAMP CONSTRUCTION.

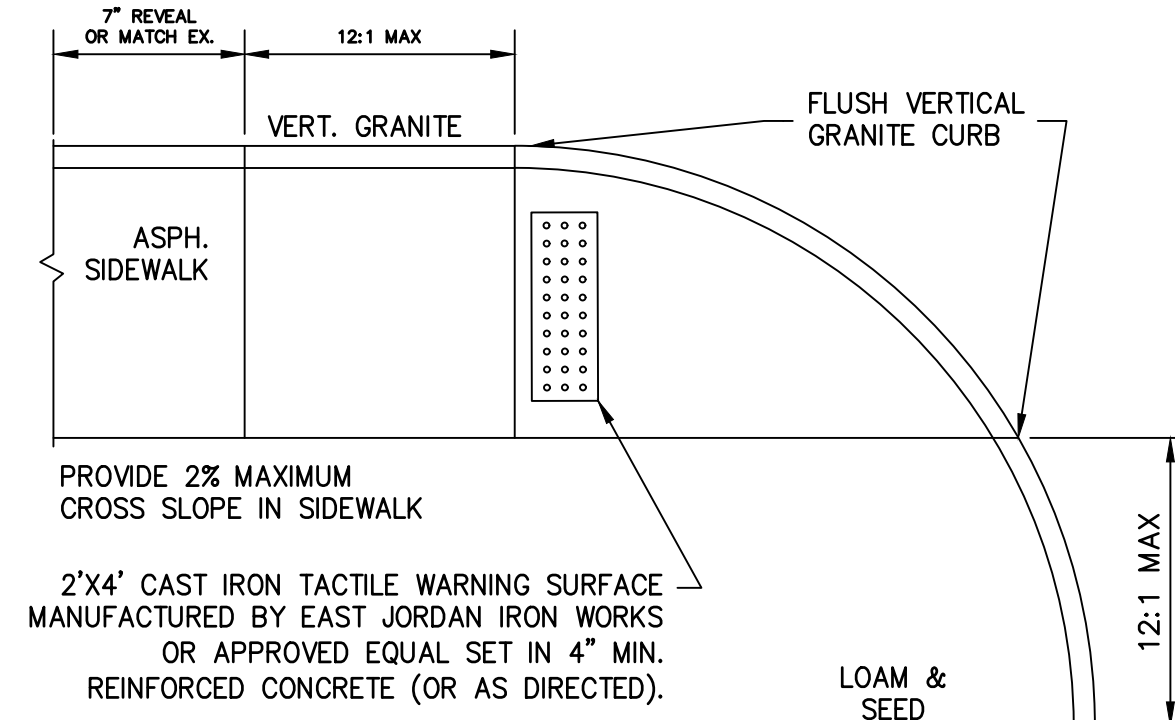


ACCESSIBLE CURB RAMP-TYPE C
NOT TO SCALE



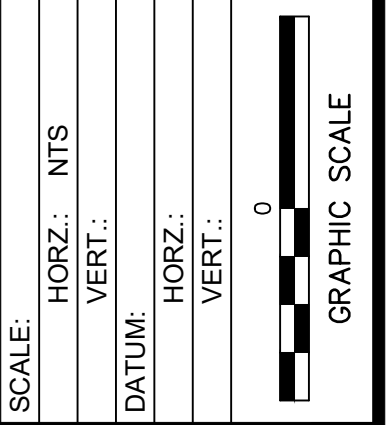
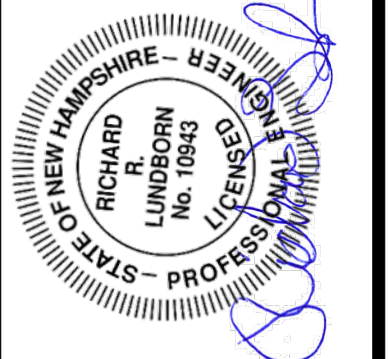
- NOTES:**
- * CONSTRUCTION TOLERANCE ± 0.5%
 - REFER TO CONCRETE SIDEWALK DETAIL FOR REINFORCEMENT & JOINT DETAILS.

SIDEWALK RAMP D
NOT TO SCALE



END OF SIDEWALK PEDESTRIAN RAMP
NOT TO SCALE

NO.	DATE	DESCRIPTION	DESIGNER	REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD	RRL



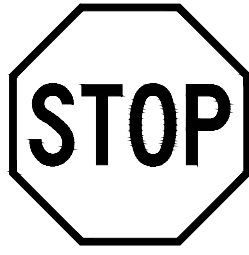
FUSS & O'NEILL
UPPER SQUARE BUSINESS CENTER
5 FLETCHER STREET, SUITE 1
KENNEBUNK, MAINE 04043
207.563.6609
www.fandoc.com

CATE STREET DEVELOPMENT, LLC
SITE DETAILS
CATE STREET/ WEST END YARDS
PORTSMOUTH
NEW HAMPSHIRE

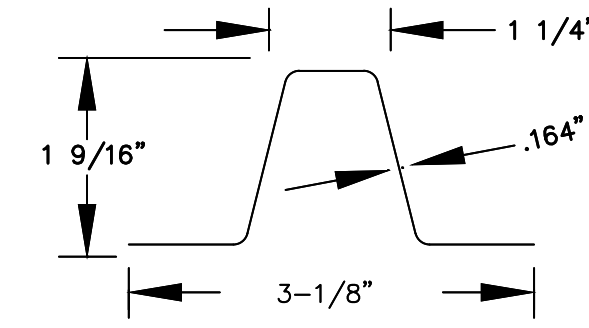
PROJ. No.: 20180317.A10
DATE: 06/20/2019

CD-550

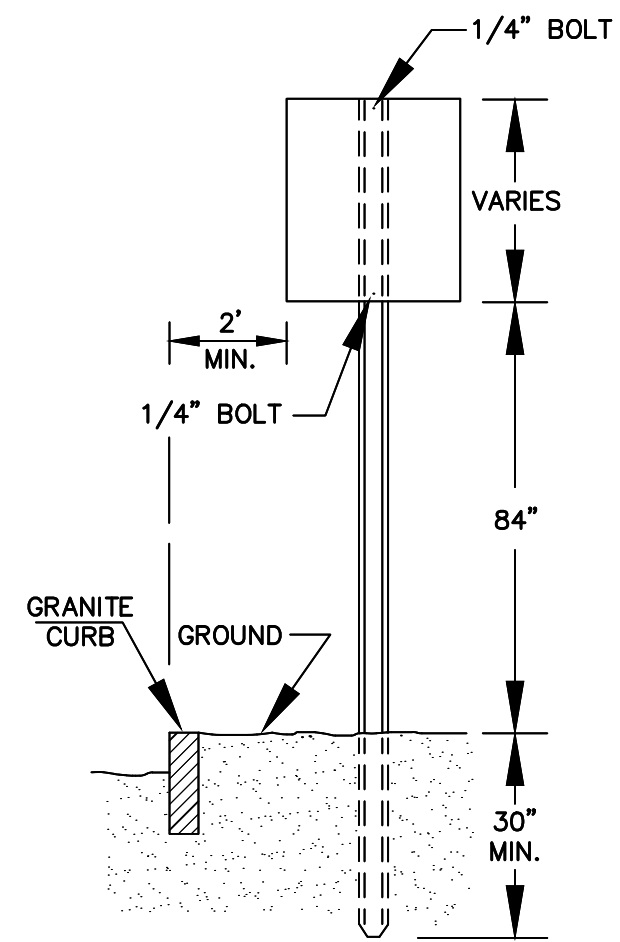
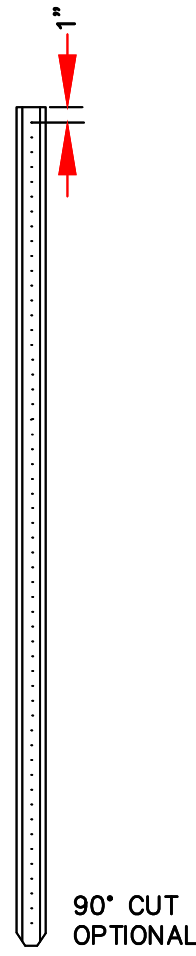
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ITEM #	IDENT #	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			SHIELD SIZE (INCH)	ARROW (INCH)	NUMERAL (INCH)	# SIGNS REQ'D	SIGN AREA (SQ. FT.)		POSTS PER SIGN					REMARKS
		WIDTH (INCH)	HEIGHT (INCH)		LETTER HEIGHT (INCH)							NOM AREA	TOTAL AREA	BREAKAWAY	STEEL-BEAM	CONCRETE BASE	4" OD ALUMINIUM	U-CHANNEL-GALV	
					UC	LC	CAPS												
	R1-1	30	30				10C				12	6.25	75.00				1		RED/WHITE

LENGTH: P-12, 12'-0"; P-14, 14'-0"; P-16, 16'-0".
 WEIGHT PER LINEAR FOOT: 2.50 LBS. (MIN.)
 HOLES: 3/8" DIA. 1' C-C FULL LENGTH
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070-1080).
 FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN, BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.



DIMENSIONS SHOWN ARE NOMINAL
 ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.
 ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.

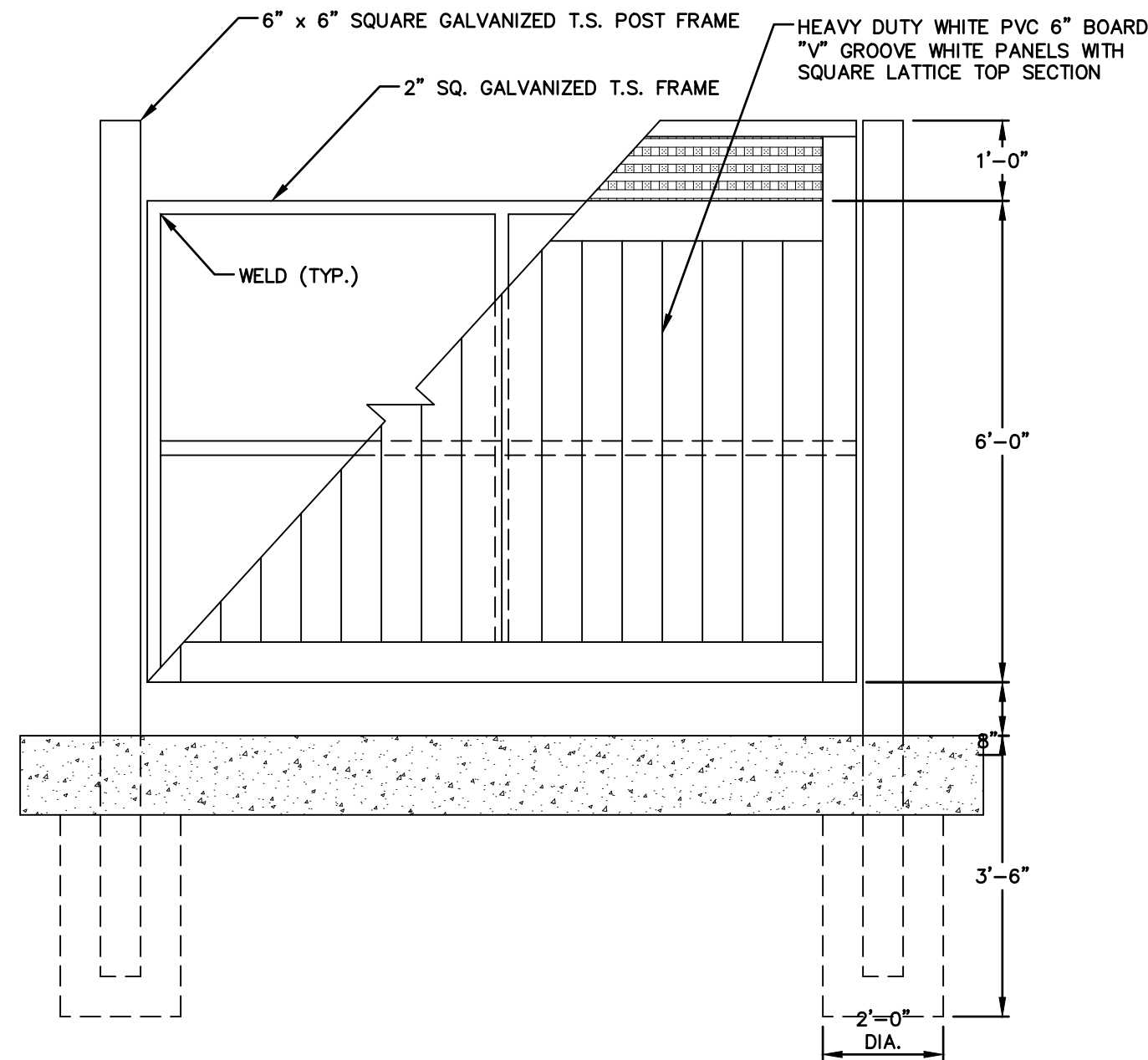


- NOTES
- POSTS SHALL BE PLUMB; ANY POST BENT OR OTHERWISE DAMAGED SHALL BE REMOVED AND PROPERLY REPLACED.
 - POSTS MAY BE SET OF DRIVEN. WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH; AFTER INSERTING POSTS, THE HOLES SHALL BE BACK FILLED WITH SUITABLE MATERIAL IN LAYERS NOT TO EXCEED A 6" DEPTH, THOROUGHLY COMPACTED.
 - CARE SHALL BE TAKEN TO PRESERVE THE ALIGNMENT OF THE POST. WHEN POSTS ARE DRIVEN, A SUITABLE DRIVING CAP SHALL BE USED AND AFTER DRIVING THE TOP OF THE POST SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSION AS THE BODY OF THE POST; BATTERED HEADS WILL NOT BE ACCEPTED.
 - POSTS SHALL NOT BE DRIVEN WITH THE SIGN ATTACHED TO THE POST.
 - SIGNS SHALL BE ERECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - WHEN SIGN IS IN PLACE NO PART OF POST SHALL EXTEND ABOVE THE SIGN.

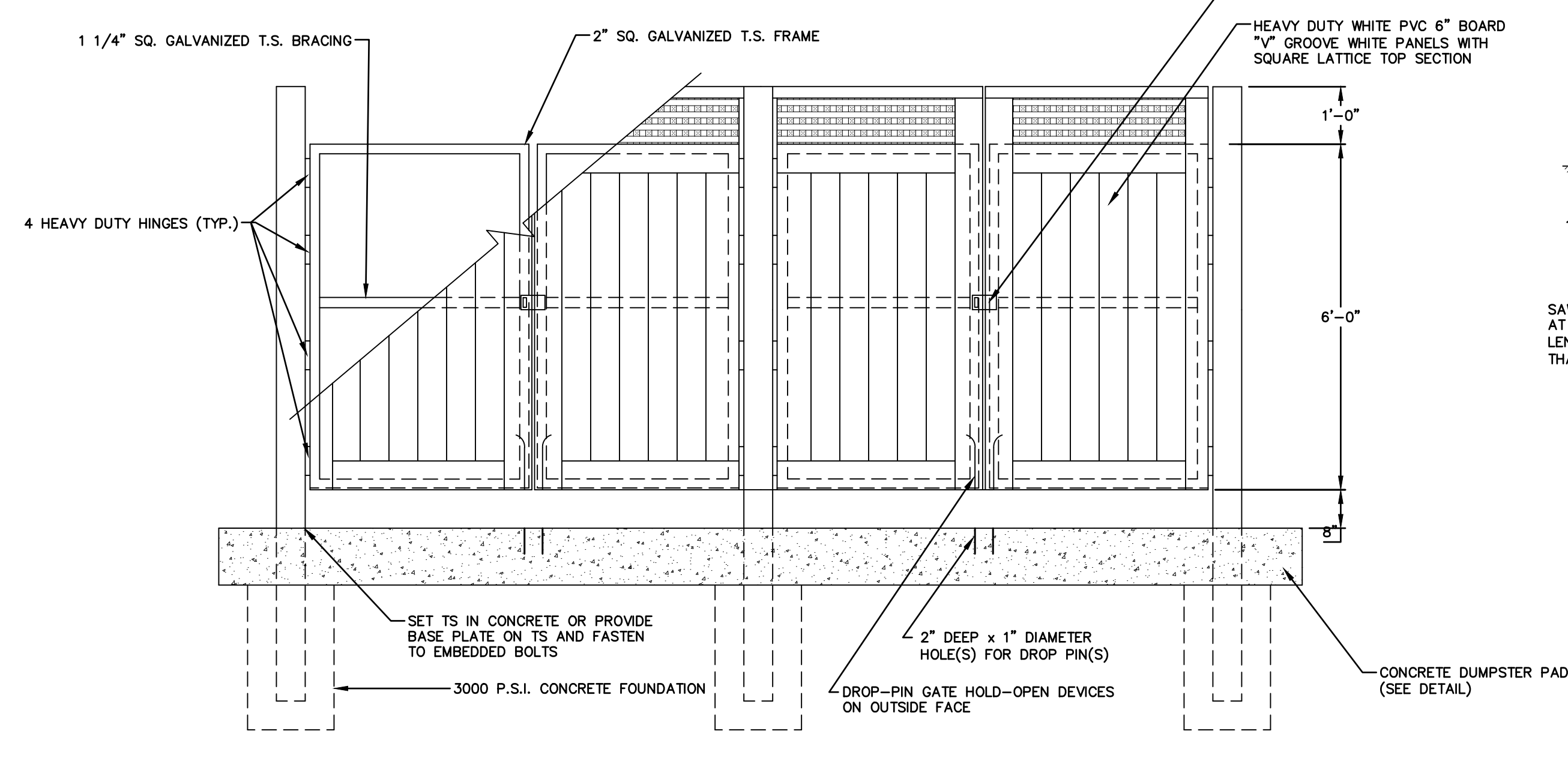
SIGN POST
 NOT TO SCALE

SCALE: HORIZ.: NTS VERT.: 1" = 10'		DATE: 06/20/2019	
DATUM: 0		DESIGNER REVIEWER: JVA/DAD	
GRAPHIC SCALE		TAC SUBMITTAL: 6/20/2019	
FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 www.fandoc.com		TAC SUBMITTAL: 5/20/2019	
CATE STREET DEVELOPMENT, LLC		TAC SUBMITTAL: 3/18/2019	
SITE DETAILS		No. 1	
CATE STREET/ WEST END YARDS		DATE	
PORTSMOUTH NEW HAMPSHIRE		DESCRIPTION	
PROJ. No.: 20180317.A10		DESIGNER REVIEWER	
DATE: 06/20/2019			
CD-551			

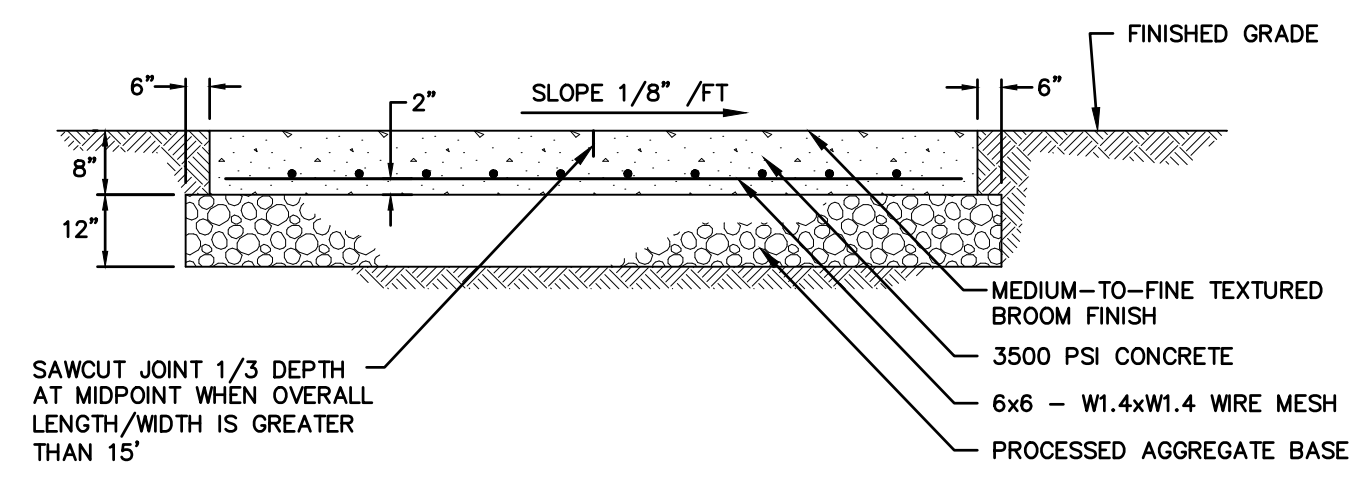
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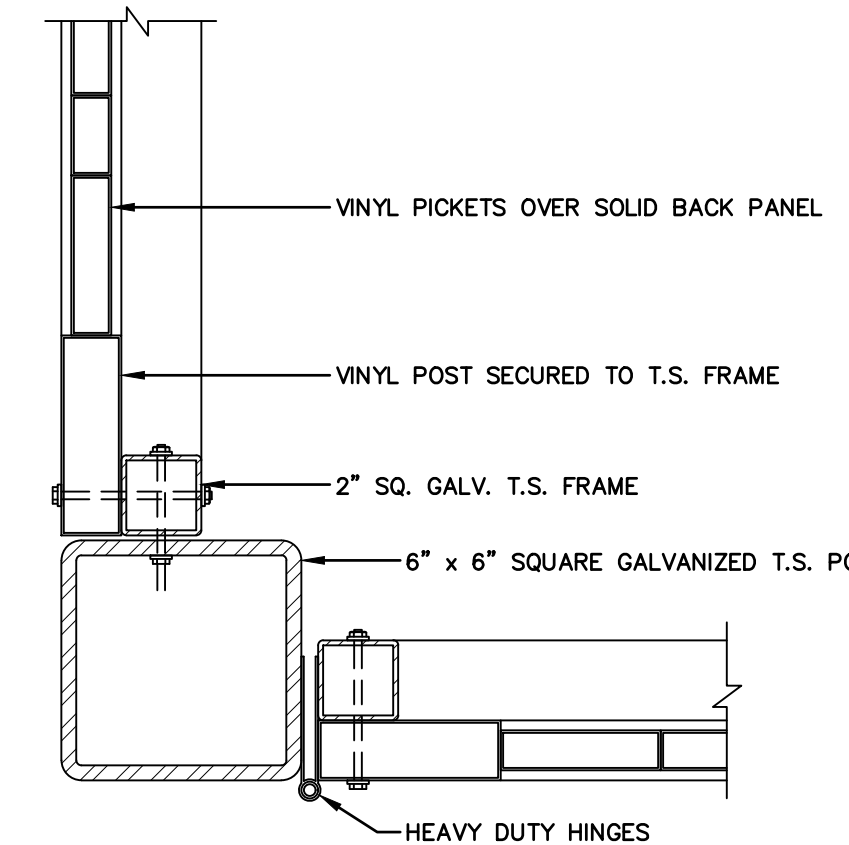
SIDE ELEVATION



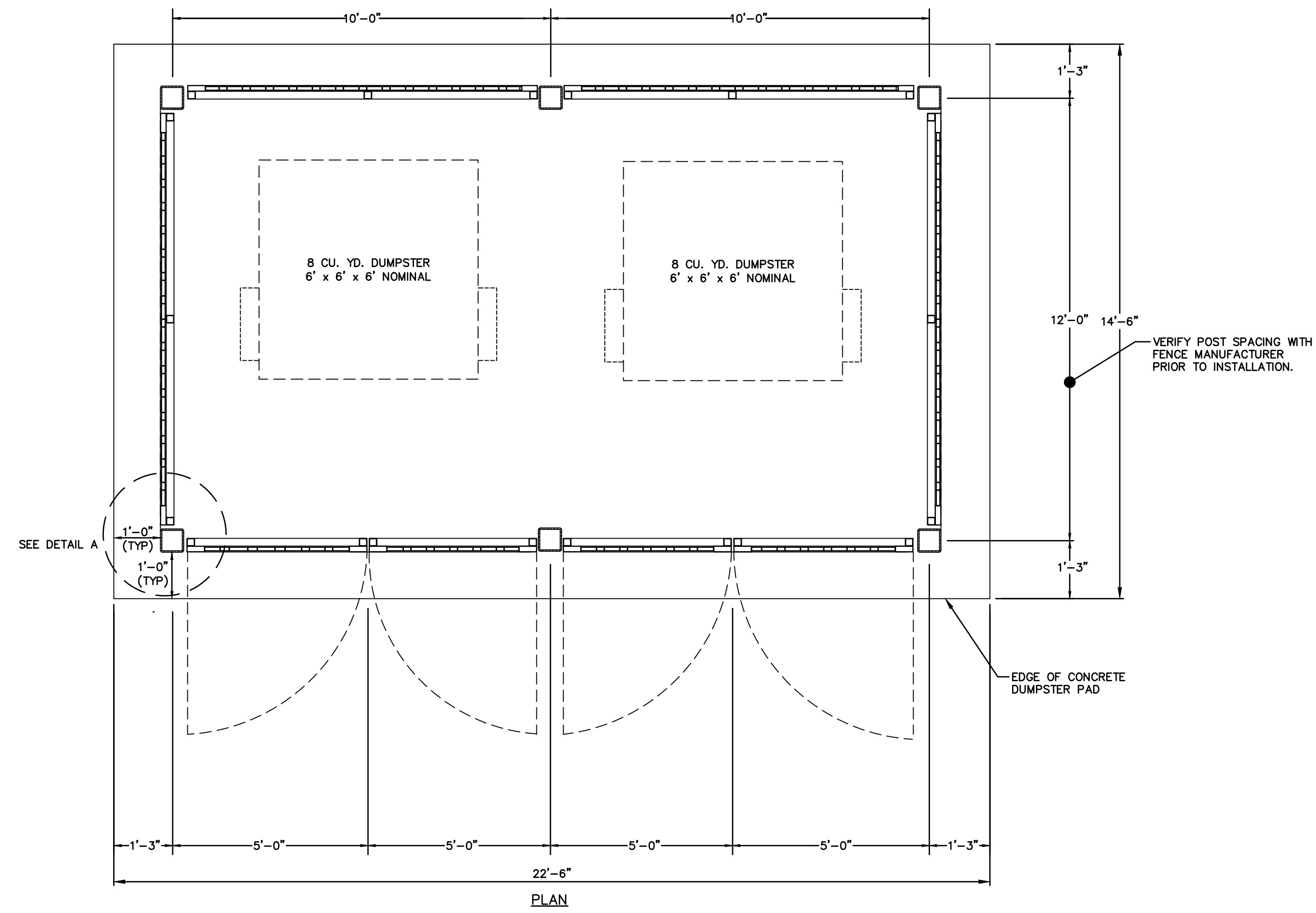
FRONT ELEVATION



CONCRETE DUMPSTER PAD
NOT TO SCALE



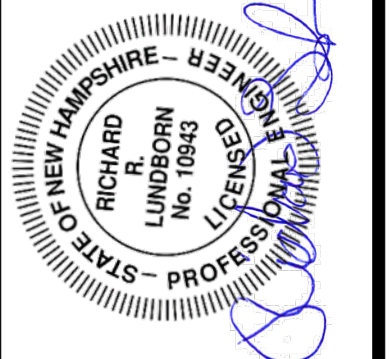
DETAIL A



PLAN

DOUBLE DUMPSTER ENCLOSURE
SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD	RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD	RRL



SCALE:	HORIZ.: NTS	VERT.: NTS
DATUM:	HORIZ.:	VERT.:
GRAPHIC SCALE		

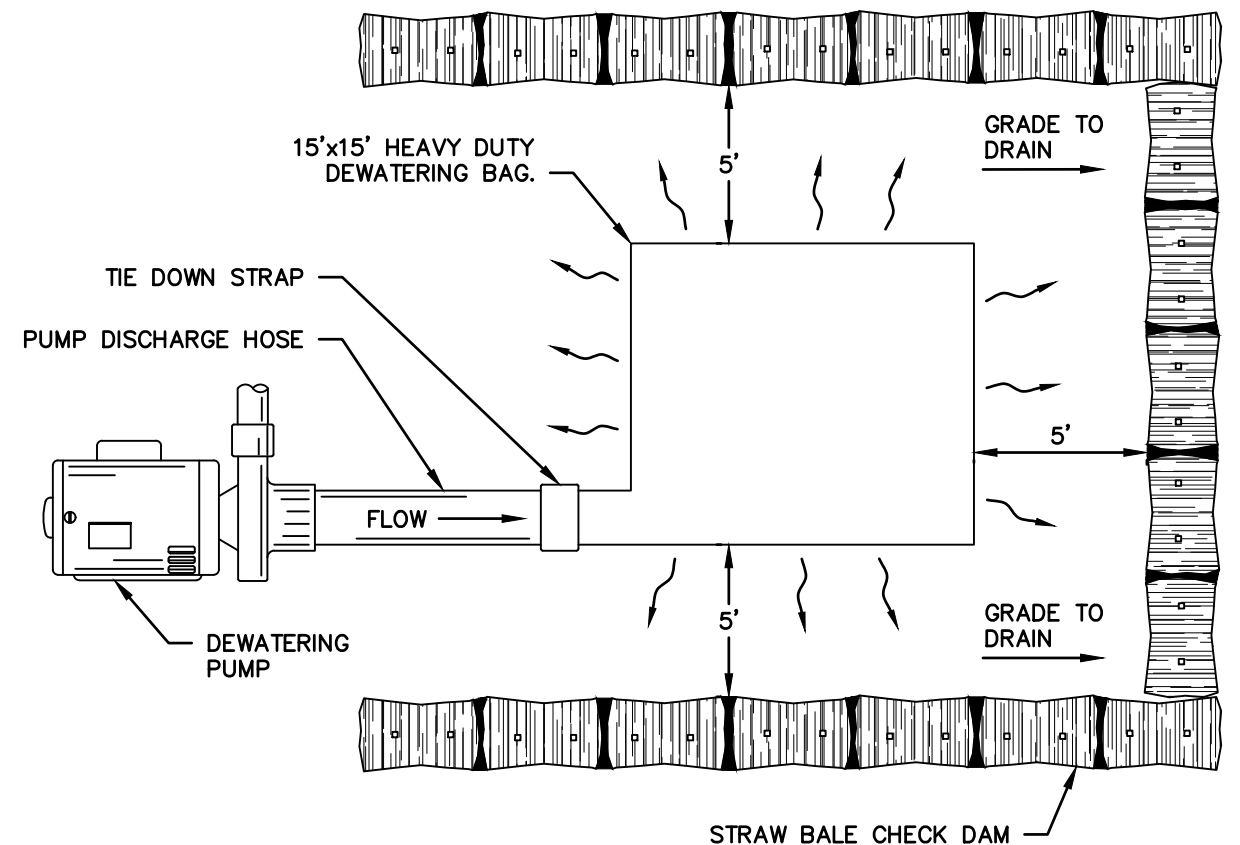
FUSS & O'NEILL
 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
 207.563.0609
 www.fandoc.com

CATE STREET DEVELOPMENT, LLC
 SITE DETAILS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

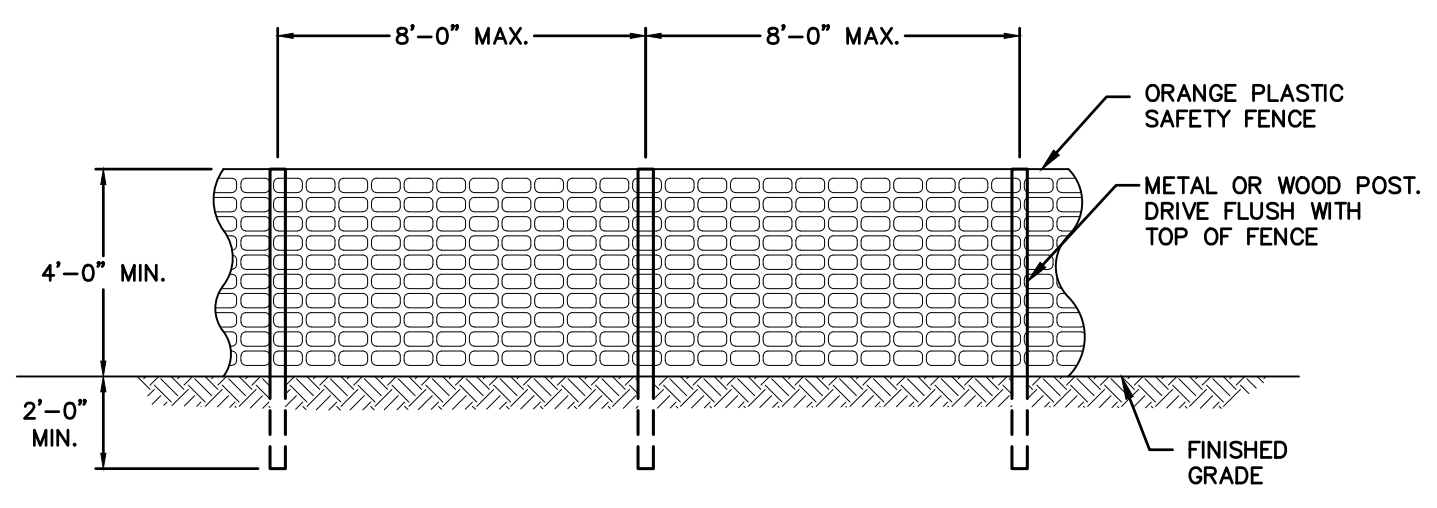
PROJ. No.: 20180317.A10
 DATE: 06/20/2019

CD-552

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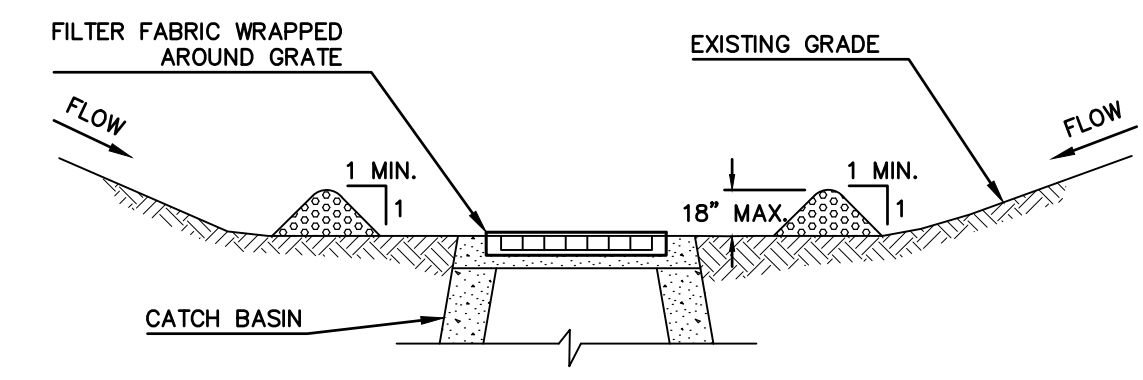
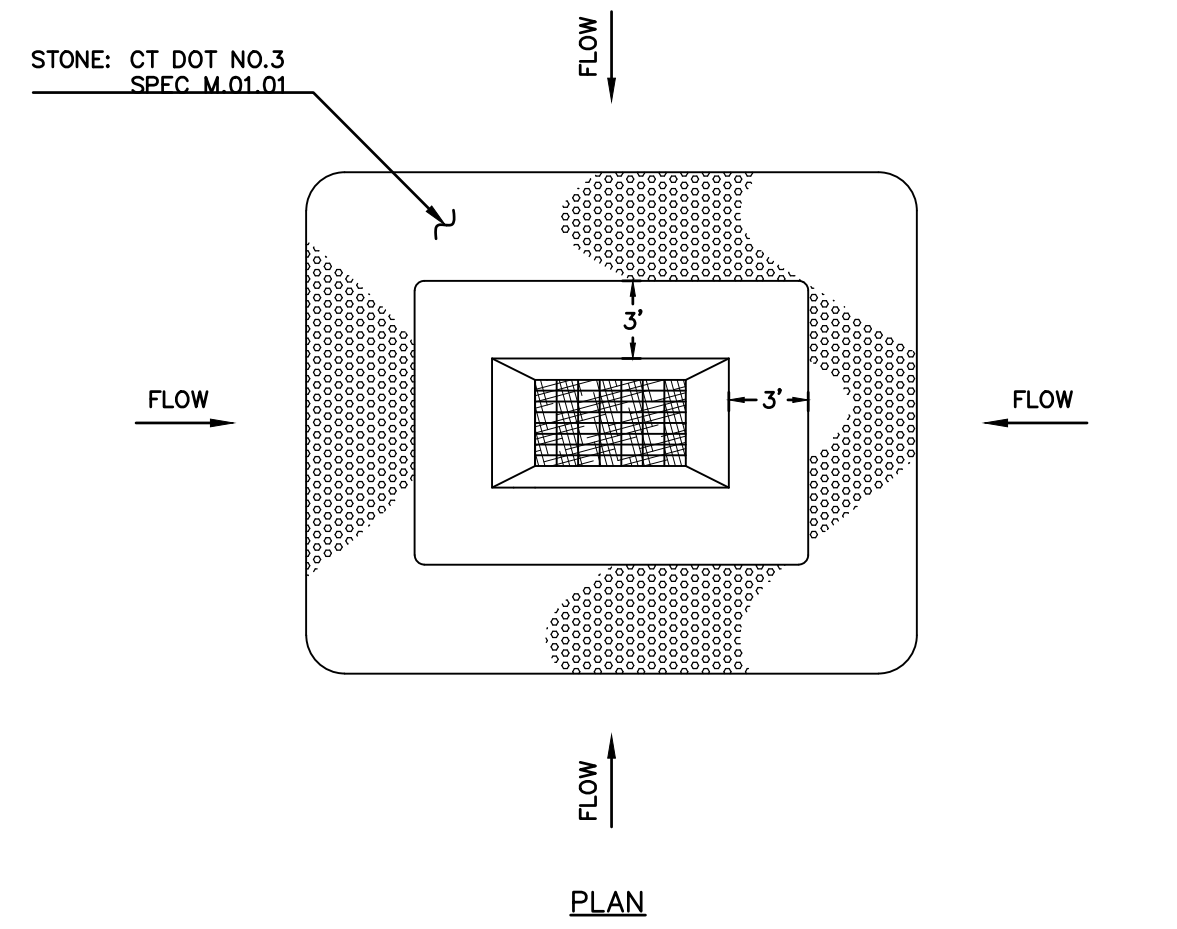


DEWATERING BAG
 NOT TO SCALE

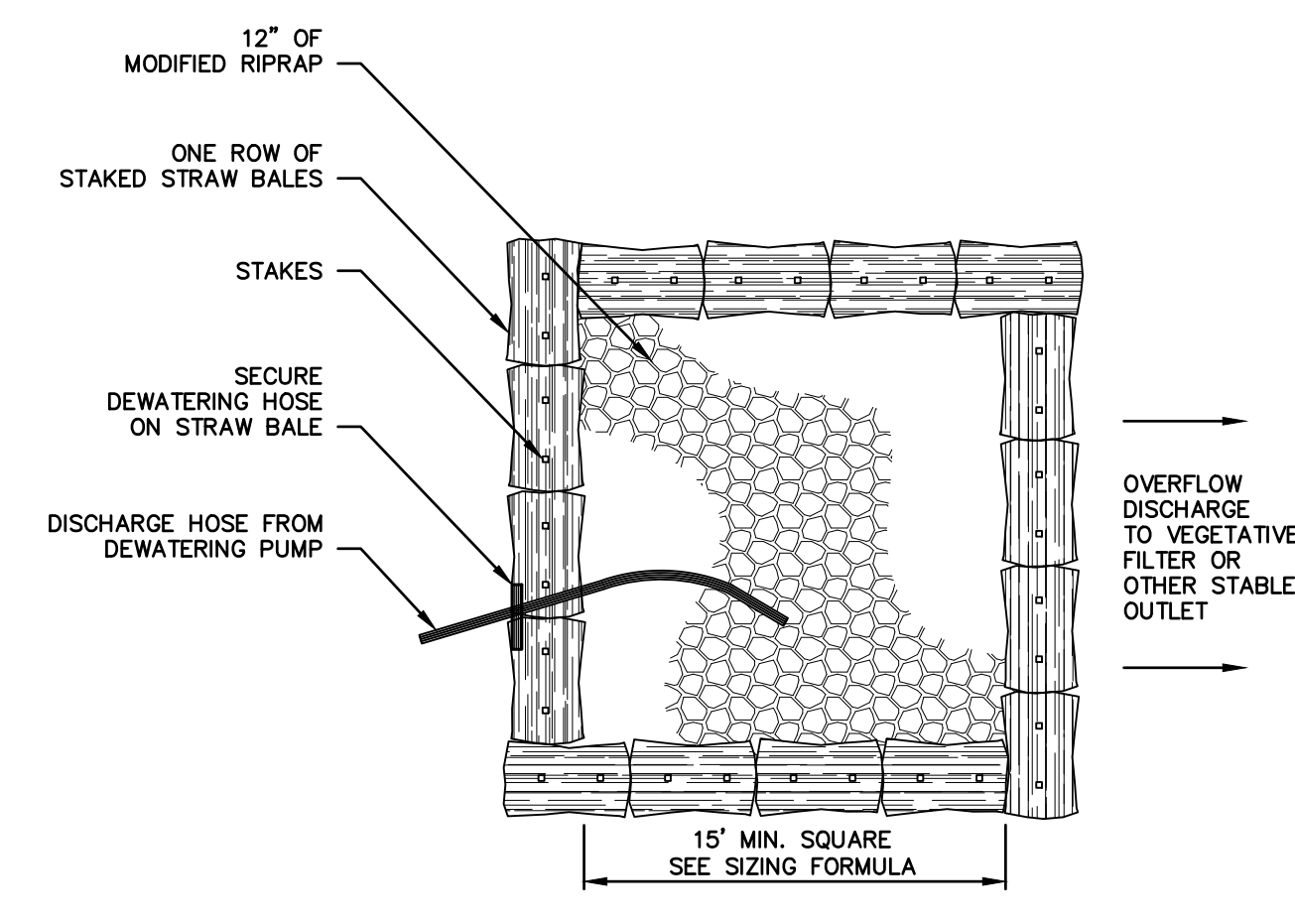


FOR TREE PROTECTION FENCE SHALL BE PLACED AT DRIPLINE OF TREES.

PROTECTIVE SAFETY FENCE
 SCALE: N.T.S.

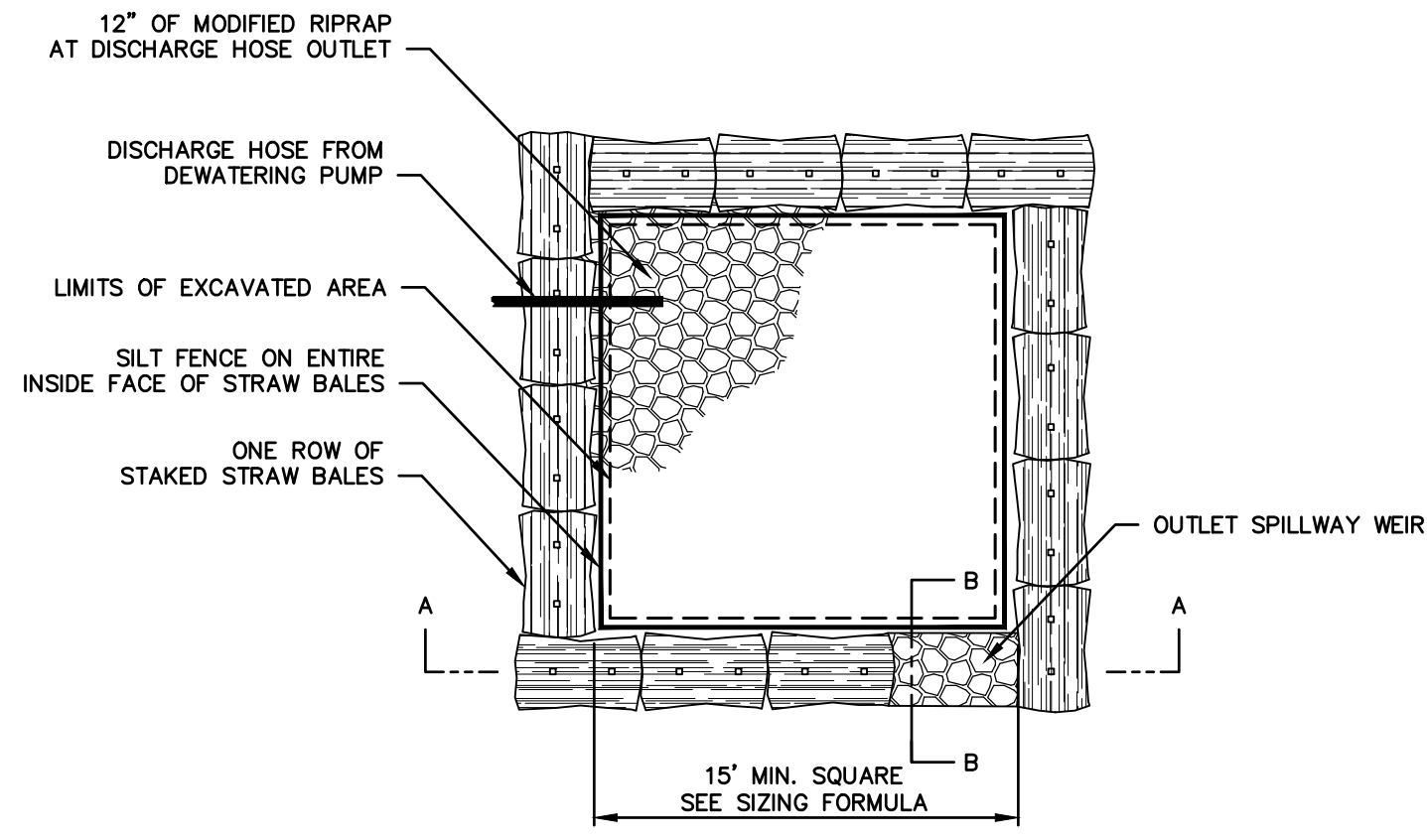


LOW POINT STONE CHECK DAM
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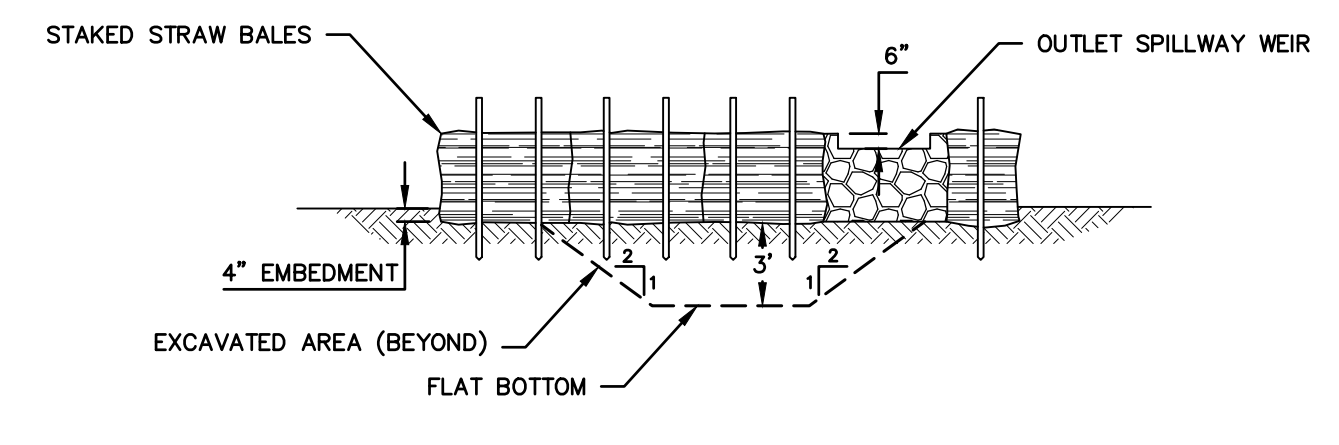
SIZING FORMULA:
 CUBIC FT. OF REQUIRED STORAGE = PUMP DISCHARGE RATE (GPM) x 16

PUMP SETTLING BASIN TYPE I
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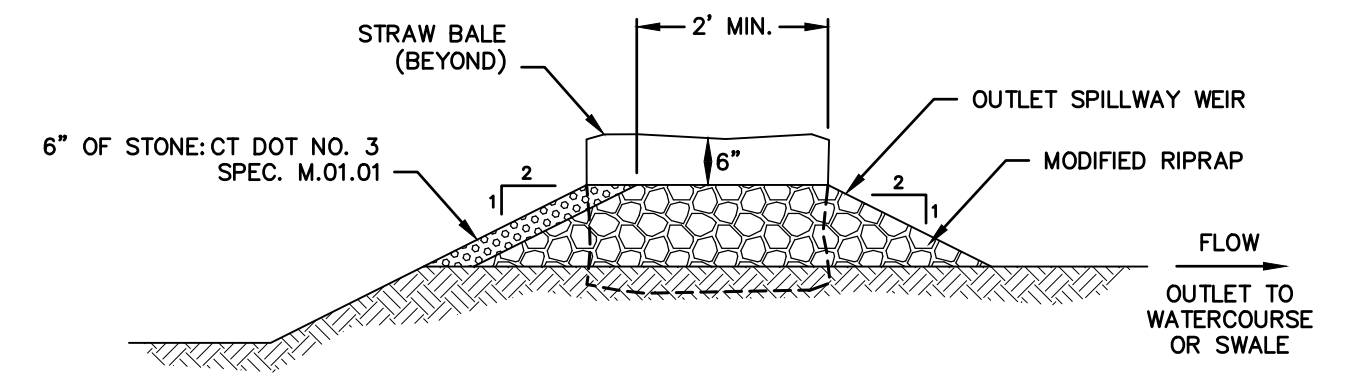


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PUMP SETTLING BASIN TYPE II
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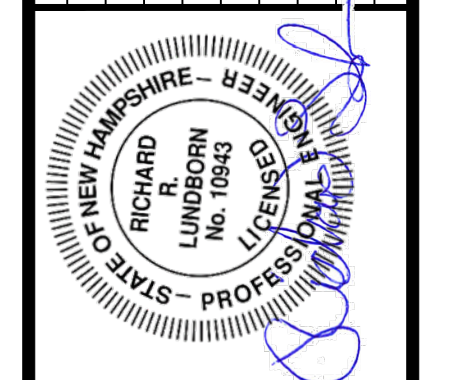


SECTION A-A



SECTION B-B

No.	DATE	DESCRIPTION	DESIGNER REVIEWER
3.	6/20/2019	TAC SUBMITTAL	JVA/DAD RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL



SCALE:	HORIZ.: NTS	VERT.: NTS
DATUM:		
GRAPHIC SCALE		

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 KENNEBUNK, MAINE 04043
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 www.fandoc.com

CATE STREET DEVELOPMENT, LLC
EROSION CONTROL DETAILS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 06/20/2019

CD-562



<p>SCALE: HORIZ.: 1"=30' VERT.: 1"=30'</p>		<p>DATUM: HORIZ.: NAD83 VERT.: NGVD29</p>	
<p>30 15 0 30 GRAPHIC SCALE</p>		<p>4. 7/24/2019 TAC SUBMITTAL JVA/DAD RRL 3. 6/20/2019 TAC SUBMITTAL JVA/DAD RRL 2. 5/20/2019 TAC SUBMITTAL JVA/DAD RRL 1. 3/18/2019 TAC SUBMITTAL JVA/DAD RRL</p>	
<p>NO. DATE DESCRIPTION</p>		<p>DESIGNER REVIEWER</p>	

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 UPPER SQUARE BUSINESS CENTER
 5 FLETCHER STREET, SUITE 1
 KENNEBUNK, MAINE 04043
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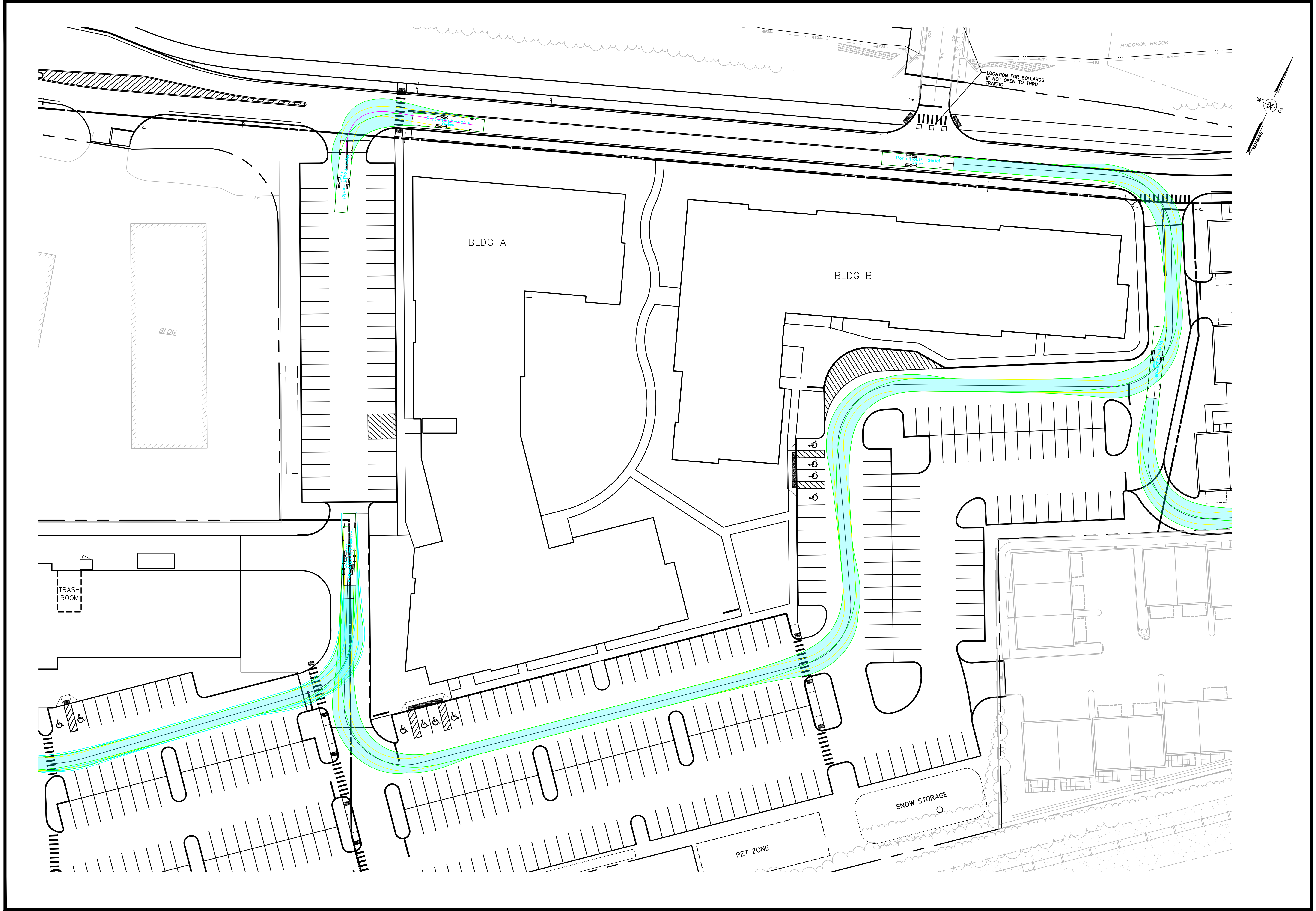
CATE STREET DEVELOPMENT, LLC
 SU-40 BOX TRUCK
 TURNING MOVEMENTS
 CATE STREET/ WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE

PROJ. No.: 20180317.A10
 DATE: 07/24/2019

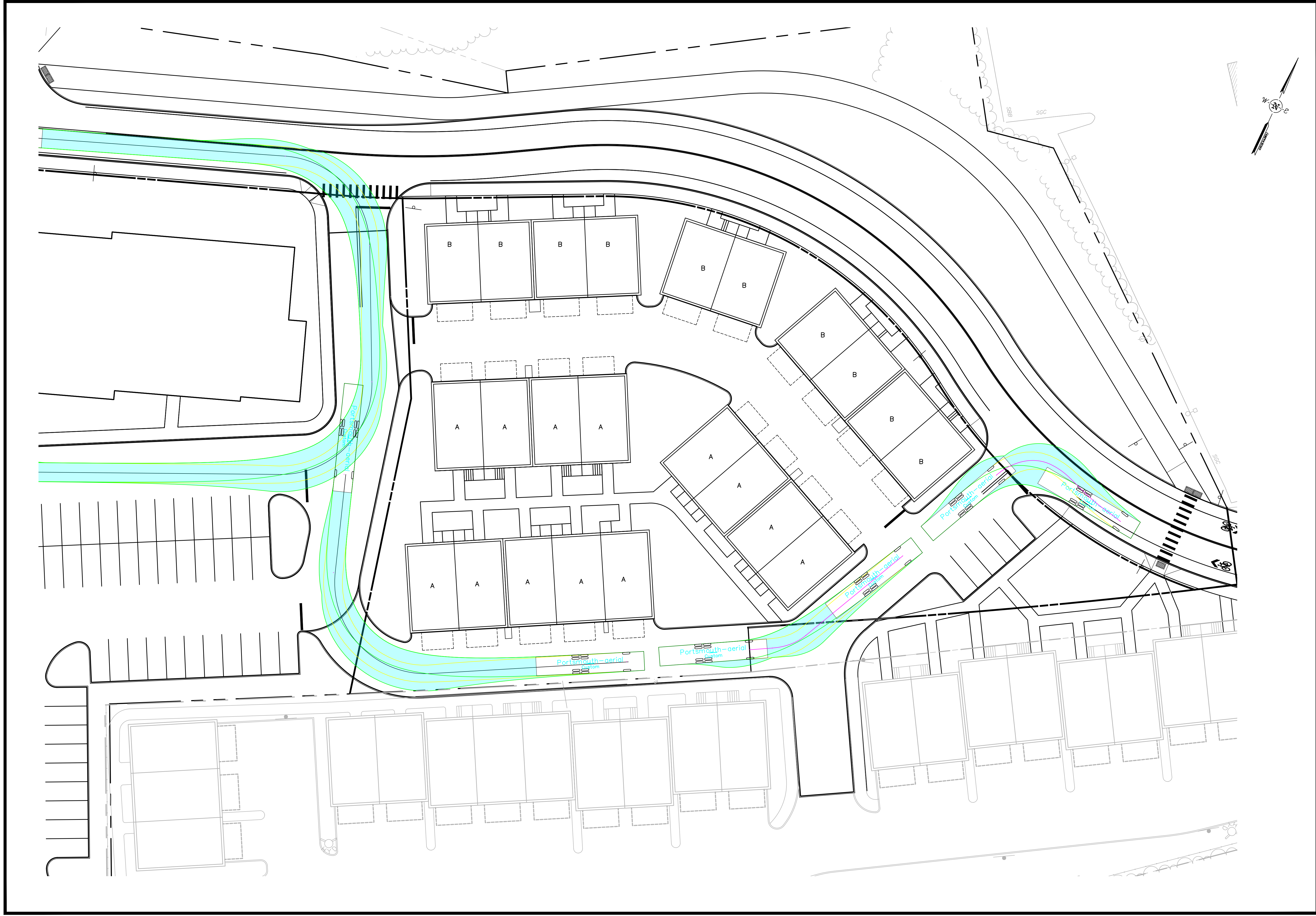
CT-201



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<p>PROJ. No.: 20180317.A10 DATE: 07/24/2019</p>		<p>CT-202</p>	
<p>CATE STREET DEVELOPMENT, LLC TOWER 5 TURNING MOVEMENTS CATE STREET/WEST END YARDS PORTSMOUTH NEW HAMPSHIRE</p>		<p>FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 207.563.0609 www.fandoo.com</p>	
<p>DESIGNER REVIEWER</p>		<p>DATE DESCRIPTION</p>	



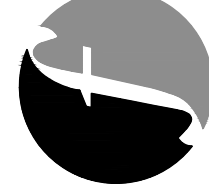
<p>SCALE: HORZ.: 1"=30' VERT.: 1"=30'</p> <p>DATUM: HORZ.: NAD83 VERT.: NGVD29</p> <p>30 15 0 30 GRAPHIC SCALE</p>		<p>FUSS & O'NEILL UPPER SQUARE BUSINESS CENTER 5 FLETCHER STREET, SUITE 1 KENNEBUNK, MAINE 04043 207.563.0609 www.fandco.com</p>																				
<p>CATE STREET DEVELOPMENT, LLC TOWER 5 TURNING MOVEMENTS CATE STREET/ WEST END YARDS PORTSMOUTH NEW HAMPSHIRE</p>		<table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DESIGNER REVIEWER</th> </tr> </thead> <tbody> <tr> <td>4.</td> <td>7/24/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>3.</td> <td>6/20/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>2.</td> <td>5/20/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> <tr> <td>1.</td> <td>3/18/2019</td> <td>TAC SUBMITTAL</td> <td>JVA/DAD RRL</td> </tr> </tbody> </table>	No.	DATE	DESCRIPTION	DESIGNER REVIEWER	4.	7/24/2019	TAC SUBMITTAL	JVA/DAD RRL	3.	6/20/2019	TAC SUBMITTAL	JVA/DAD RRL	2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL	1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL
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2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL																			
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL																			
<p>PROJ. No.: 20180317.A10 DATE: 07/24/2019</p>		<p>CT-203</p>																				



PROJ. No.: 20180317.A10
 DATE: 07/24/2019

CT-204

CATE STREET DEVELOPMENT, LLC
 TOWER 5
 TURNING MOVEMENTS
 CATE STREET/WEST END YARDS
 PORTSMOUTH NEW HAMPSHIRE



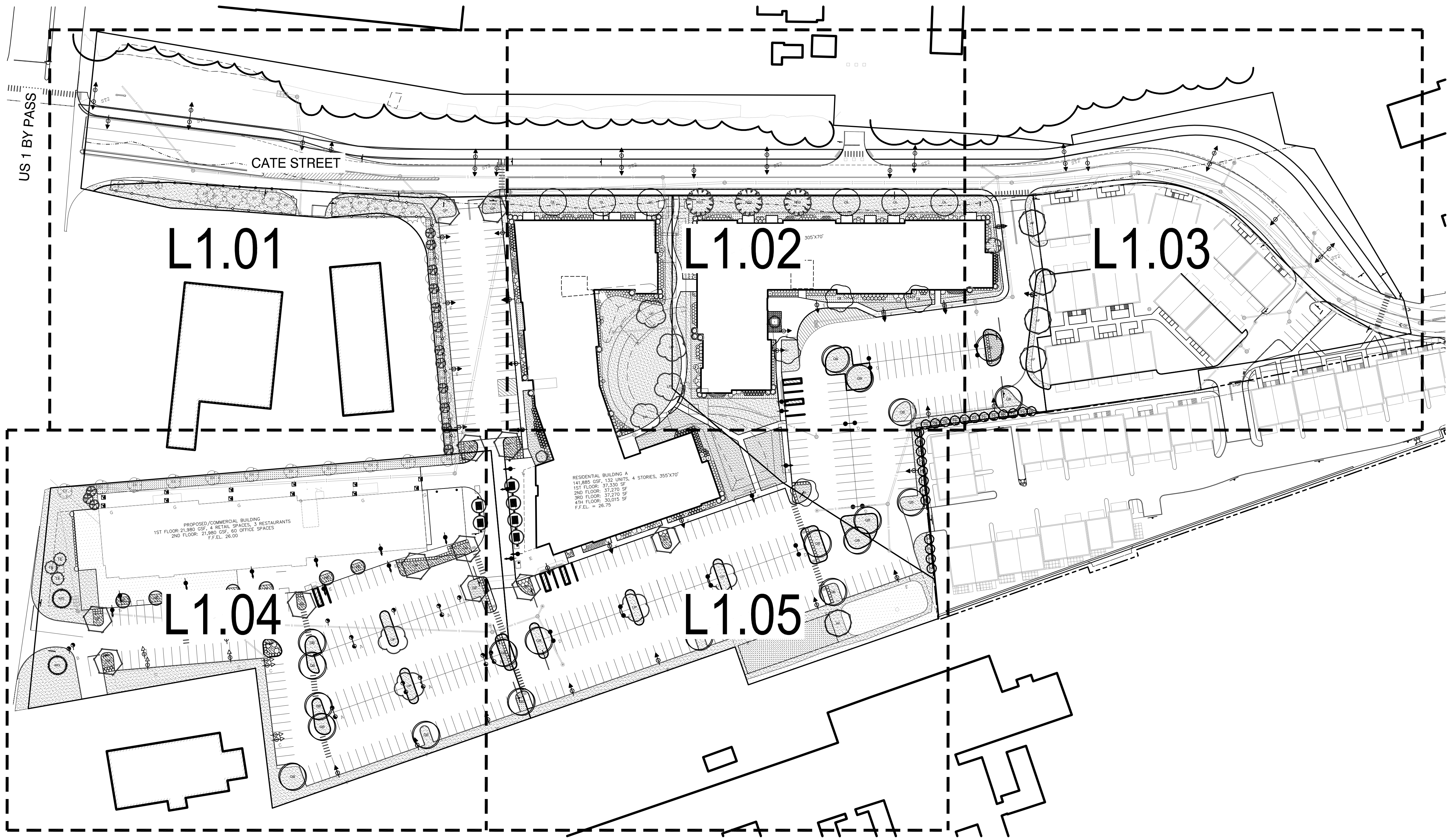
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 207.363.0609
 www.fandoo.com

SCALE: HORIZ.: 1"=20'
 VERT.: 1"=20'
 DATUM: HORIZ.: NAD83
 VERT.: NGVD29

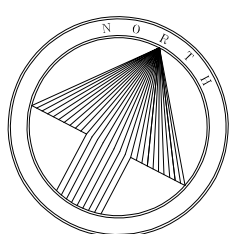
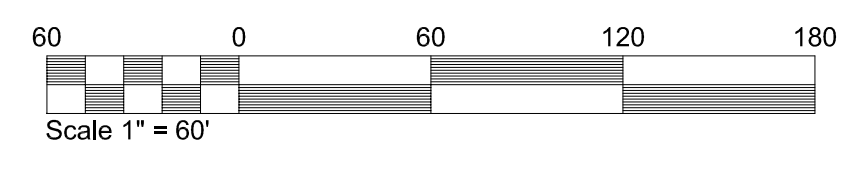
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No.	DATE	DESCRIPTION	DESIGNER REVIEWER
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3.	6/20/2019	TAC SUBMITTAL	JVA/DAD RRL
2.	5/20/2019	TAC SUBMITTAL	JVA/DAD RRL
1.	3/18/2019	TAC SUBMITTAL	JVA/DAD RRL



NOTE:
 REFER TO PLANT SCHEDULE ON SHEET L1.06 FOR THE DETAILED PLANT SCHEDULE PER SECTION 6.2-2A OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

- SITE PLAN NOTE:**
1. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
 2. ALL SHRUBS WILL BE MAINTAINED TO A HEIGHT OF NO MORE THAN 36" TO ENSURE SIGHT LINES AT INTERSECTIONS.



PROFESSIONAL STAMP:

WEST END YARDS
 PREPARED FOR
CATE STREET DEVELOPMENT LLC

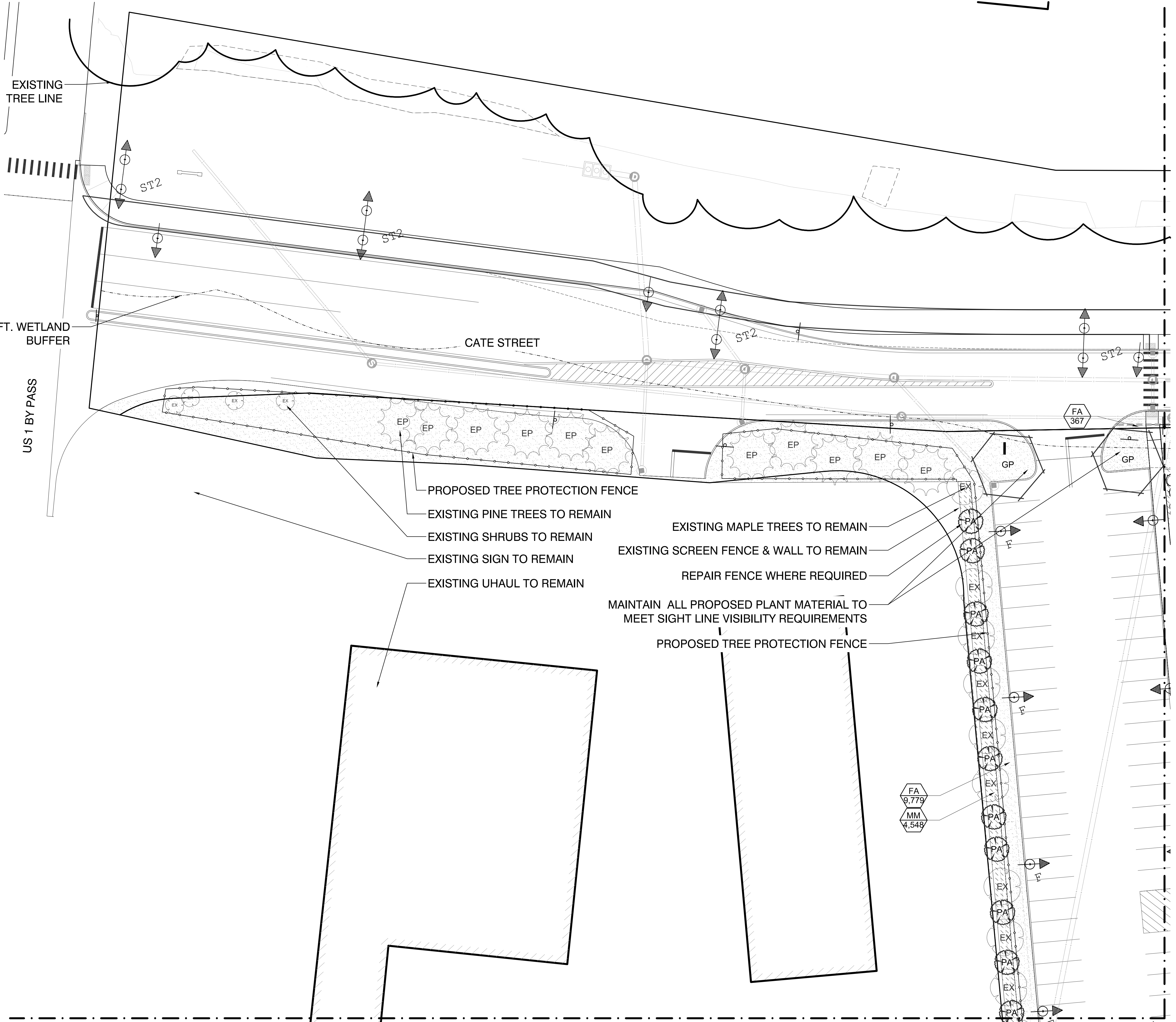
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A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
LANDSCAPE PLAN

PROJECT NUMBER:
 18041.00

L1.00

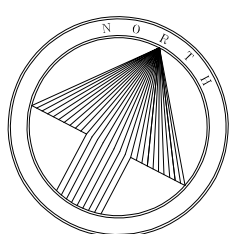
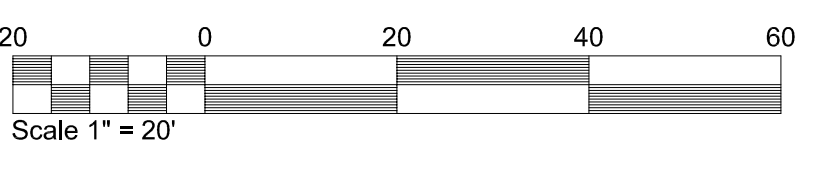
DATE: 03.18.2019
 PERMIT ISSUE



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
AF	Acer rubrum 'Franksred' TM / Red Sunset Maple
GI	Gleditsia triacanthos inermis 'Skycote' TM / Skyline Thornless Honey Locust
GP	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Ginkgo
ME	Magnolia x 'Elizabeth' / Magnolia
MG	Metasequoia glyptostroboides / Dawn Redwood
NS2	Nyssa sylvatica / Sour Gum
PA	Picea abies / Norway Spruce
PE	Platanus x acerifolia 'Exclamation' TM / Exclamation London Plane Tree
PR	Pinus rigida / Pitch Pine
QB	Quercus bicolor / Swamp White Oak
QL	Quercus robur x bicolor 'Long' / Regal Prince Oak
SP	Stewartia pseudocamellia / Japanese Stewartia
TE	Thuja occidentalis 'Emerald' / Emerald Arborvitae
TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
TS	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae
UP	Ulmus americana 'Princeton' / American Elm
SHRUBS	BOTANICAL / COMMON NAME
B2	Buxus sempervirens / American Boxwood
BW	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood
CH	Clethra alnifolia 'Hummingbird' / Summersweet Clethra
HB	Hibiscus syriacus 'Blue Satin' / Rose-of-Sharon
HL	Hydrangea paniculata 'LimeLight' TM / LimeLight Hydrangea
IP	Ilex x meserveae 'Blue Prince' TM / Blue Prince Holly
MP	Myrica pensylvanica / Northern Bayberry
PM	Pinus mugo / Mugo Pine
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
RP	Rhododendron x 'P.J.M.' / Rhododendron P.J.M.
SB	Schizachyrium scoparium 'Blue Heaven' / Blue Heaven Little Bluestem
SG	Spiraea japonica 'Goldmound' / Spiraea
SM	Syringa meyeri 'Palibin' / Dwarf Korean Lilac
TD	Taxus x media 'Densiflora' / Dense Yew
GROUND COVERS	BOTANICAL / COMMON NAME
AB	Amsonia latifolia 'Blue Ice' / Blue Ice Star Flower
FA	Festuca arundinacea / Tall Fescue Seed Mix
HO	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
LC	Liriope spicata / Creeping Lily Turf
MM	Mulch / Hardwood Mulch
PA2	Perovskia atriplicifolia / Russian Sage

SITE PLAN NOTE:

- ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
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 Atlanta, Georgia 30327 www.sitesolutionsla.com

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SHEET STATUS			
MARK	DATE	BY	RELEASE
A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

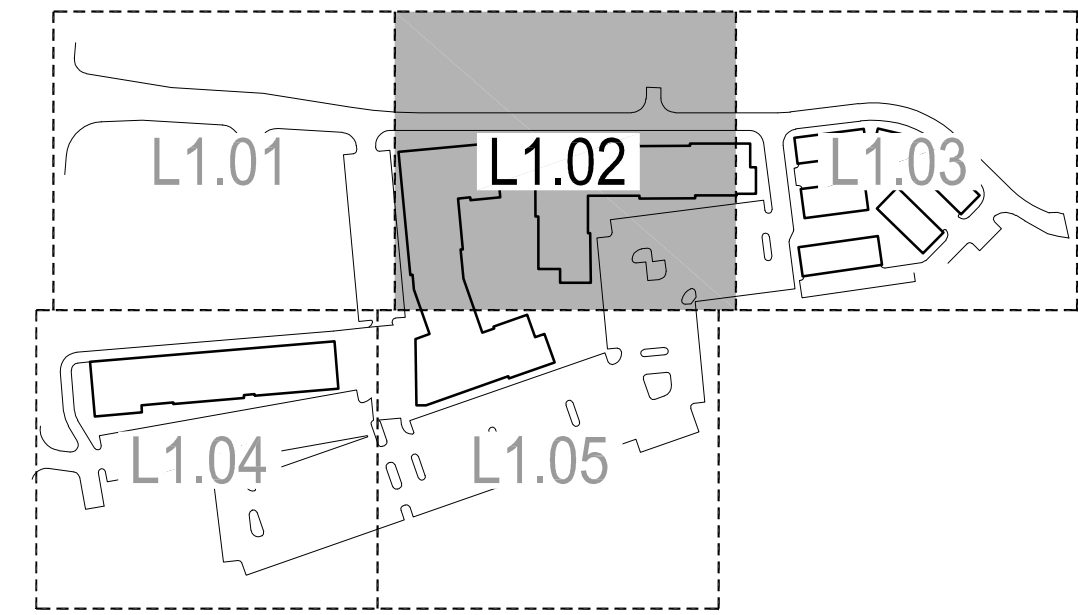
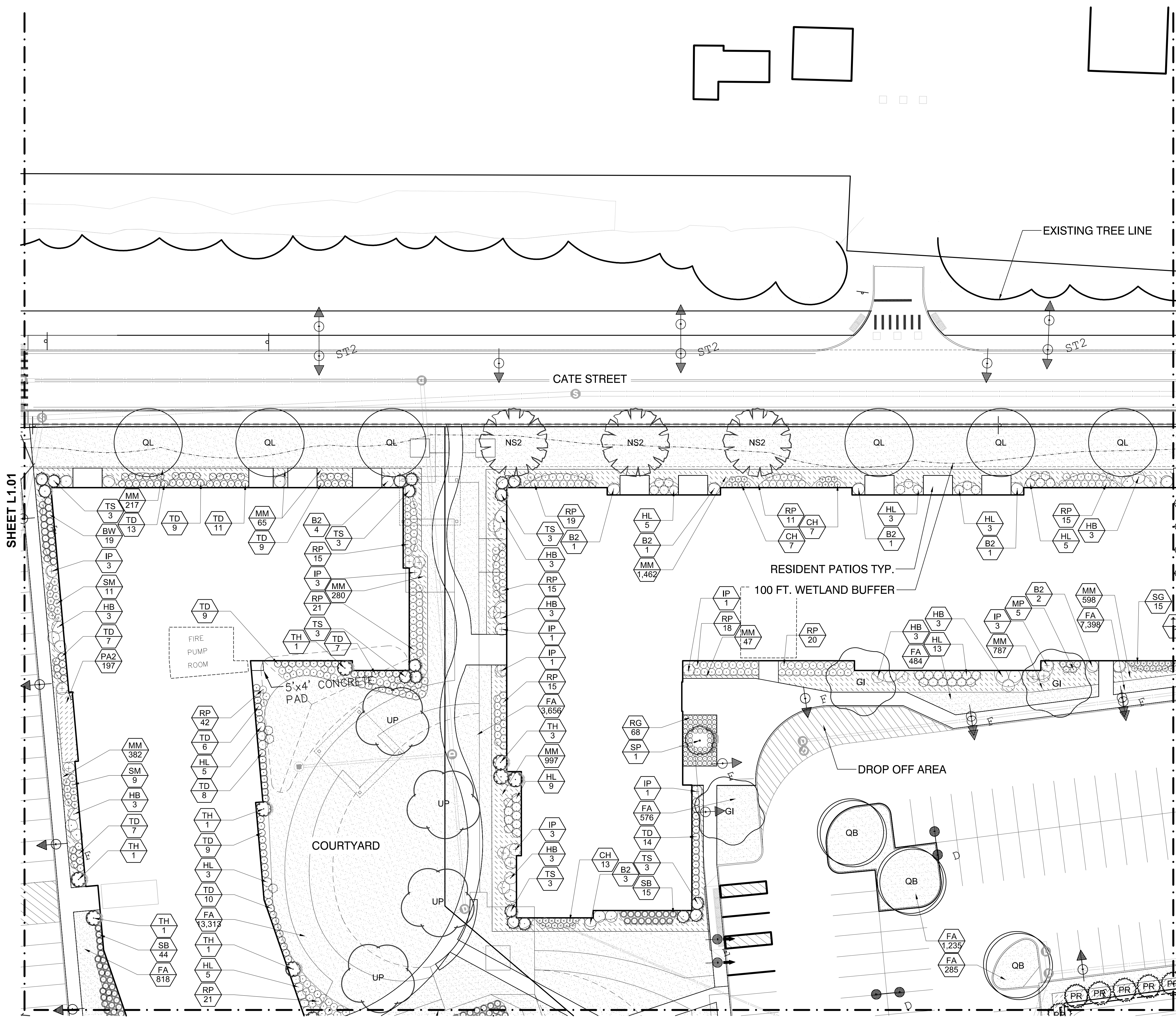
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PROJECT NUMBER:
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L1.01

DATE: 03.18.2019
 PERMIT ISSUE

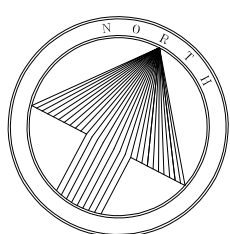
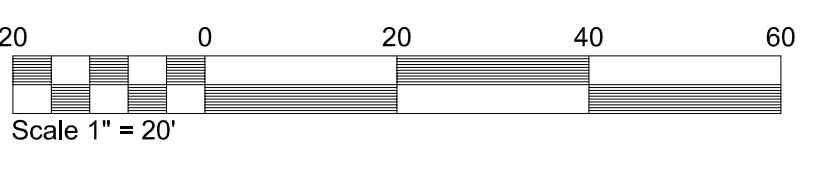
SHEET L1.04



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
AF	Acer rubrum 'Franksred'™ / Red Sunset Maple
GI	Gleditsia triacanthos inermis 'Skycole'™ / Skyline Thornless Honey Locust
GP	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Ginkgo
ME	Magnolia x 'Elizabeth' / Magnolia
MG	Metasequoia glyptostroboides / Dawn Redwood
NS2	Nyssa sylvatica / Sour Gum
PA	Picea abies / Norway Spruce
PE	Platanus x acerifolia 'Exclamation'™ / Exclamation London Plane Tree
PR	Pinus rigida / Pitch Pine
QB	Quercus bicolor / Swamp White Oak
QL	Quercus robur x bicolor 'Long' / Regal Prince Oak
SP	Stewartia pseudocamellia / Japanese Stewartia
TE	Thuja occidentalis 'Emerald' / Emerald Arborvitae
TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
TS	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae
UP	Ulmus americana 'Princeton' / American Elm
SHRUBS	BOTANICAL / COMMON NAME
B2	Buxus sempervirens / American Boxwood
BW	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood
CH	Clethra alnifolia 'Hummingbird' / Summersweet Clethra
HB	Hibiscus syriacus 'Blue Satin' / Rose-of-Sharon
HL	Hydrangea paniculata 'Limelight'™ / Limelight Hydrangea
IP	Ilex x meserveae 'Blue Prince'™ / Blue Prince Holly
MP	Myrica pensylvanica / Northern Bayberry
PM	Pinus mugo / Mugo Pine
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
RP	Rhododendron x 'P.J.M.' / Rhododendron P.J.M.
SB	Schizachyrium scoparium 'Blue Heaven' / Blue Heaven Little Bluestem
SG	Spiraea japonica 'Goldmound' / Spiraea
SM	Syringa meyeri 'Palibin' / Dwarf Korean Lilac
TD	Taxus x media 'Densiformis' / Dense Yew
GROUND COVERS	BOTANICAL / COMMON NAME
AB	Amonia tabernaemontana 'Blue Ice' / Blue Ice Star Flower
FA	Festuca arundinacea / Tall Fescue Seed Mix
HO	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
LC	Lilopsis spicata / Creeping Lily Turf
MM	Mulch / Hardwood Mulch
PA2	Perovskia atriplicifolia / Russian Sage

SITE PLAN NOTE:

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WEST END YARDS
 PREPARED FOR
CATE STREET DEVELOPMENT LLC

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SHEET TITLE:
LANDSCAPE PLAN

PROJECT NUMBER:
 18041.00

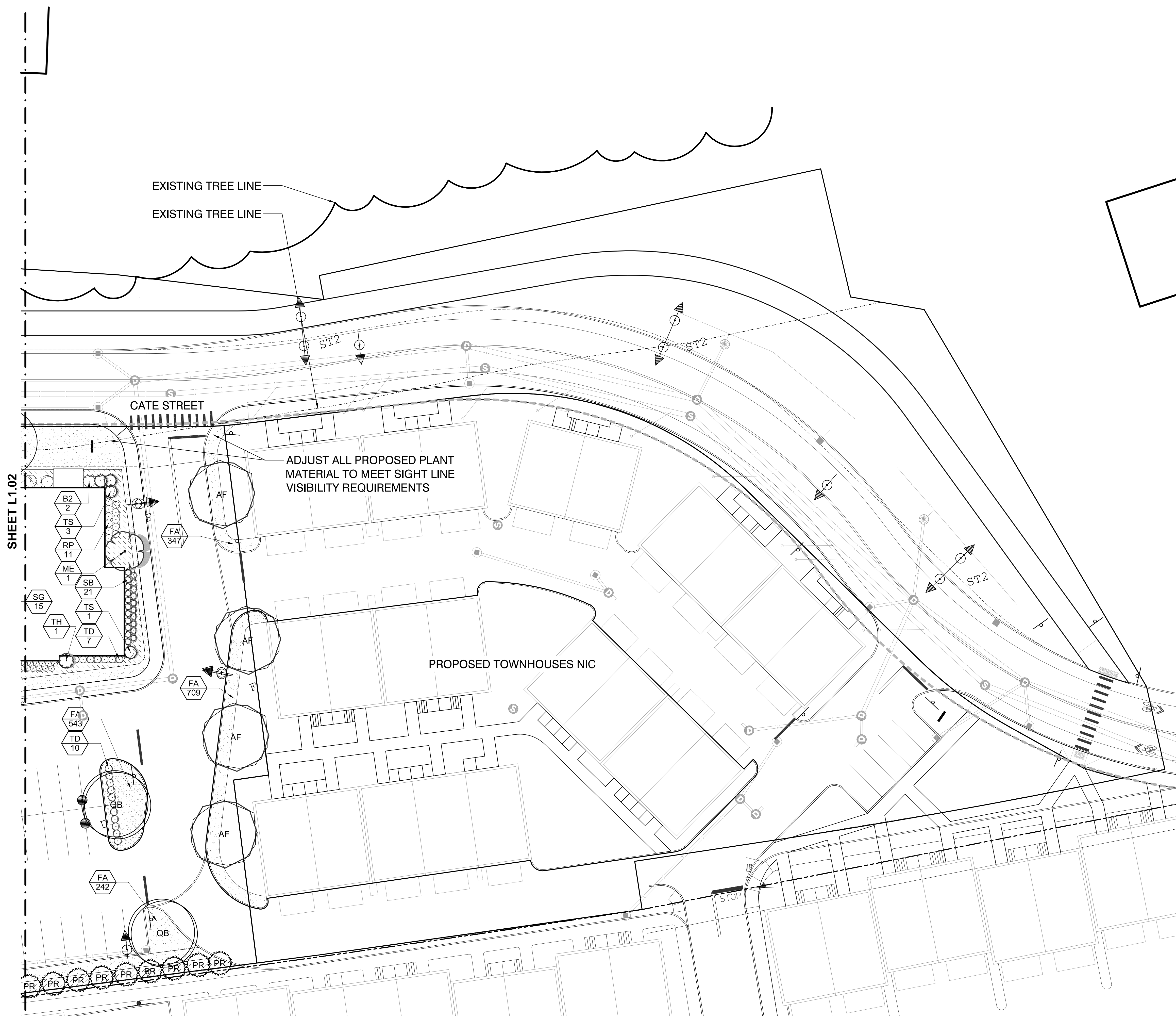
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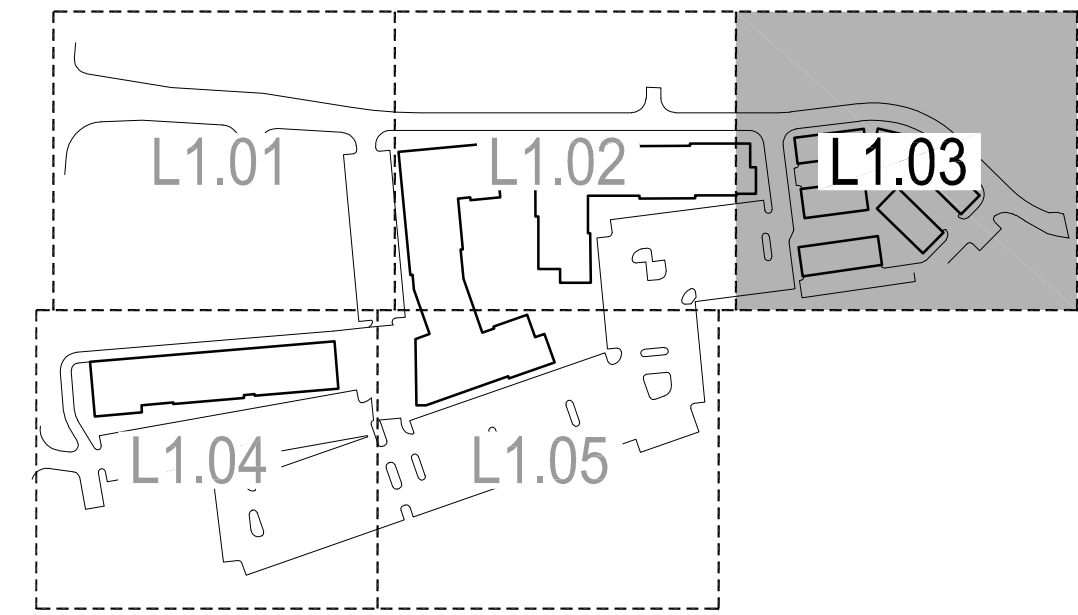
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SHEET L1.03

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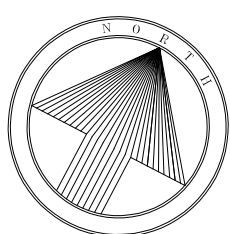
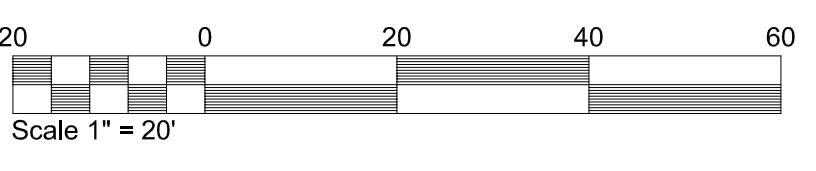


SHEET L1.02



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
AF	Acer rubrum 'Franksred' TM / Red Sunset Maple
GI	Gleditsia triacanthos inermis 'Skycole' TM / Skyline Thornless Honey Locust
GP	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Ginkgo
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HL	Hydrangea paniculata 'Limelight' TM / Limelight Hydrangea
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MP	Myrica pensylvanica / Northern Bayberry
PM	Pinus mugo / Mugo Pine
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
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SM	Syringa meyeri 'Palibin' / Dwarf Korean Lilac
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- SITE PLAN NOTE:**
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PROFESSIONAL STAMP:

WEST END YARDS

PREPARED FOR
CATE STREET DEVELOPMENT LLC

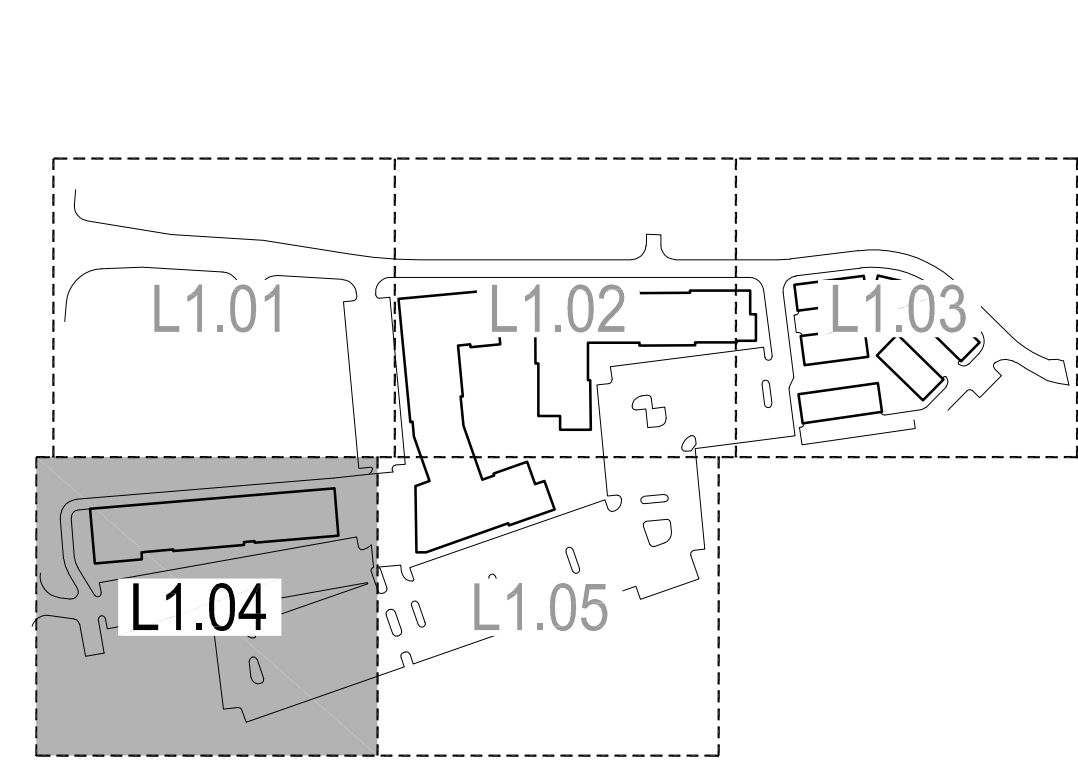
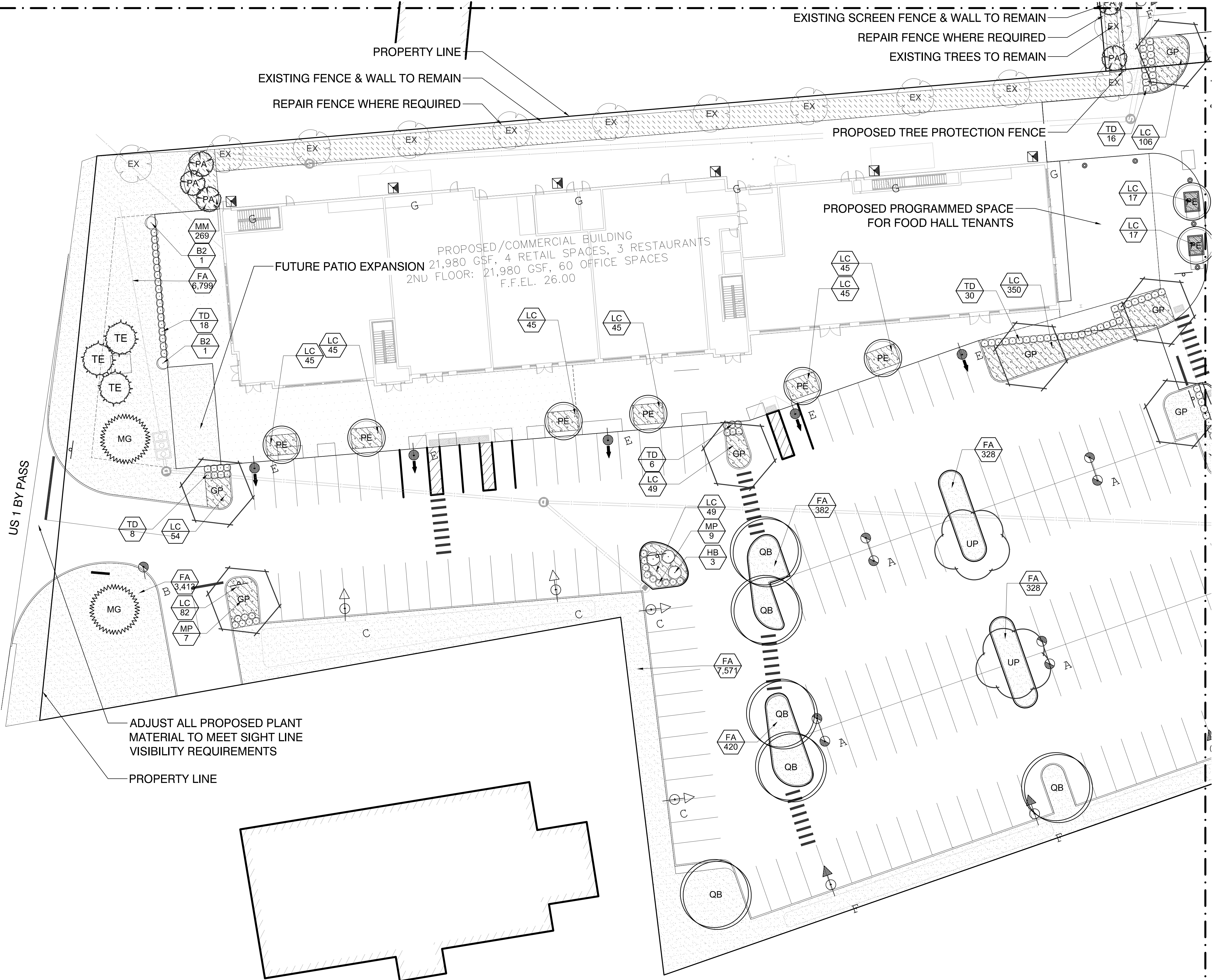
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MARK	DATE	BY	RELEASE
A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
LANDSCAPE PLAN

PROJECT NUMBER:
18041.00

L1.03

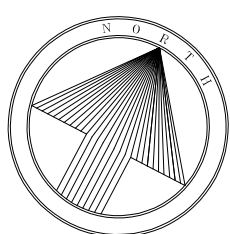
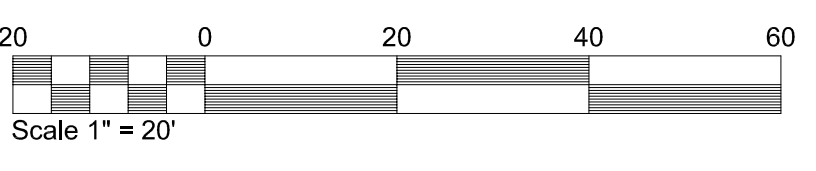
DATE: 03.18.2019
PERMIT ISSUE



PLANT SCHEDULE PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
AF	Acer rubrum 'Franksred' TM / Red Sunset Maple
GI	Gleditsia tricanthos inermis 'Skycole' TM / Skyline Thornless Honey Locust
GP	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Ginkgo
ME	Magnolia x 'Elizabeth' / Magnolia
MG	Metasequoia glyptostroboides / Dawn Redwood
NS2	Nyssa sylvatica / Sour Gum
PA	Picea abies / Norway Spruce
PE	Platanus x acerifolia 'Exclamation' TM / Exclamation London Plane Tree
PR	Pinus rigida / Pitch Pine
QB	Quercus bicolor / Swamp White Oak
QL	Quercus robur x bicolor 'Long' / Regal Pinco Oak
SP	Stewartia pseudocamellia / Japanese Stewartia
TE	Thuja occidentalis 'Emerald' / Emerald Arborvitae
TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
TS	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae
UP	Ulmus americana 'Princeton' / American Elm
SHRUBS	BOTANICAL / COMMON NAME
B2	Buxus sempervirens / American Boxwood
BW	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood
CH	Clethra alnifolia 'Hummingbird' / Summersweet Clethra
HB	Hibiscus syriacus 'Blue Satin' / Rose-of-Sharon
HL	Hydrangea paniculata 'Limelight' TM / Limelight Hydrangea
JP	Ilex x meserveae 'Blue Prince' TM / Blue Prince Holly
MP	Myrica pensylvanica / Northern Bayberry
PM	Pinus mugo / Mugo Pine
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
RP	Rhododendron x 'P.J.M.' / Rhododendron P.J.M.
SB	Schizachyrium scoparium 'Blue Heaven' / Blue Heaven Little Bluestem
SG	Spiraea japonica 'Goldmound' / Spiraea
SM	Syringa meyeri 'Pallidin' / Dwarf Korean Lilac
TD	Taxus x media 'Densiflora' / Dense Yew
GROUND COVERS	BOTANICAL / COMMON NAME
AB	Amsonia tabernaemontana 'Blue Ice' / Blue Ice Star Flower
FA	Festuca arundinacea / Tall Fescue Seed Mix
HO	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
LC	Liriope spicata / Creeping Lily Turf
MM	Mulch / Hardwood Mulch
PA2	Perovskia atriplicifolia / Russian Sage

SITE PLAN NOTE:

1. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
2. ALL SHRUBS WILL BE MAINTAINED TO A HEIGHT OF NO MORE THAN 36" TO ENSURE SIGHT LINES AT INTERSECTIONS.



SITE solutions

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PROFESSIONAL STAMP:

WEST END YARDS
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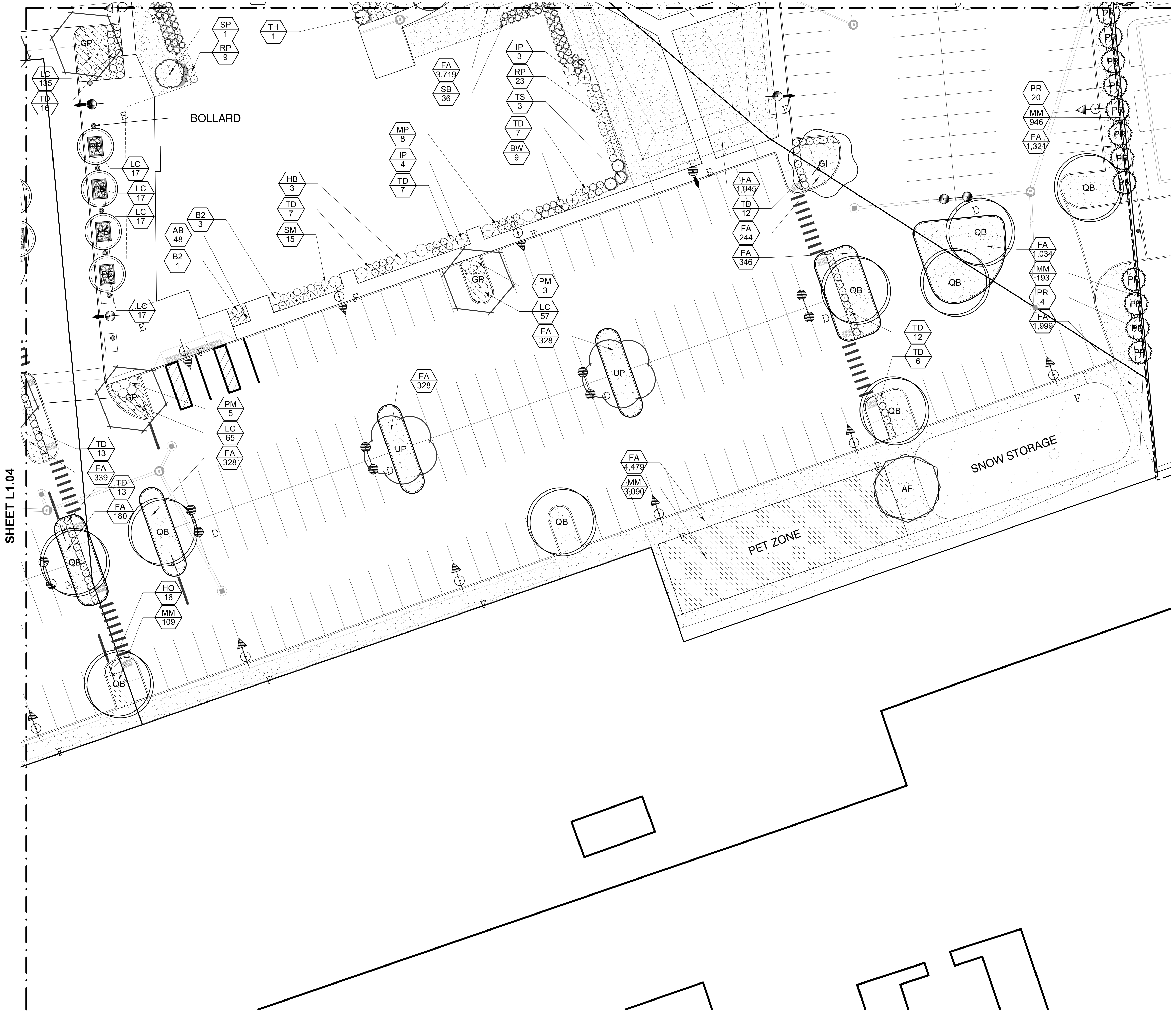
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C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
LANDSCAPE PLAN

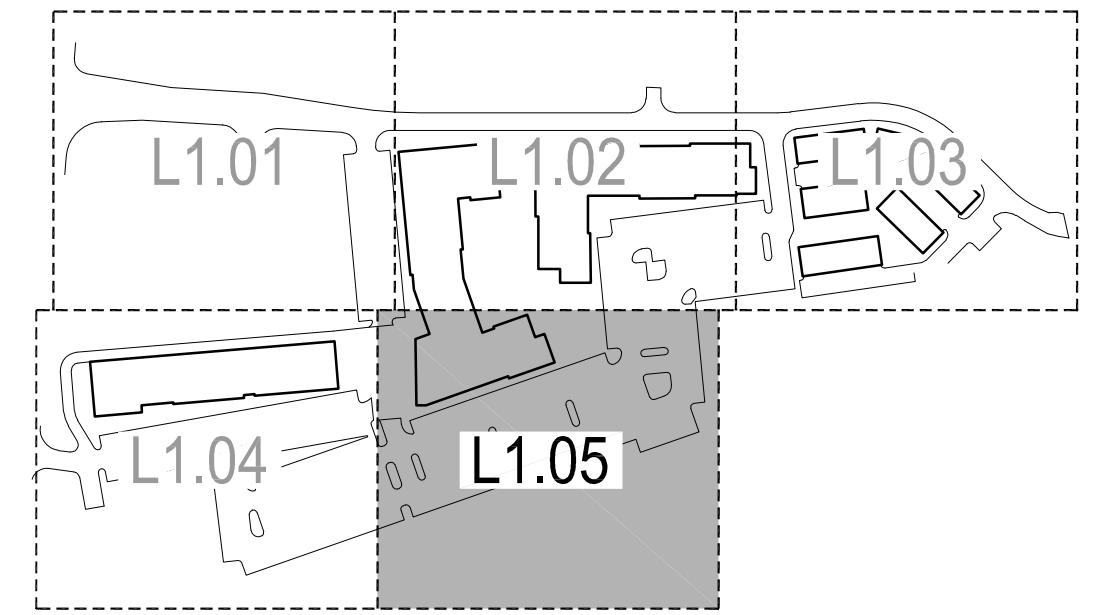
PROJECT NUMBER:
18041.00

L1.04

DATE: 03.18.2019
PERMIT ISSUE



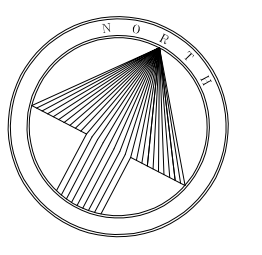
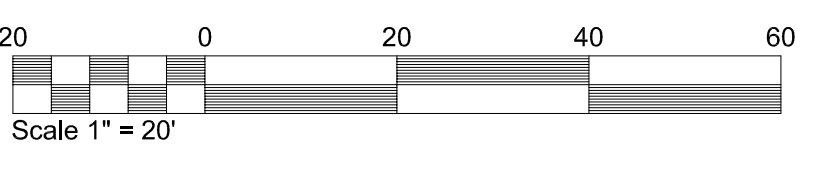
SHEET L1.04



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
AF	Acer rubrum 'Franksred' TM / Red Sunset Maple
GI	Gleditsia triacanthos inermis 'Skycole' TM / Skyline Thornless Honey Locust
GP	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Ginkgo
ME	Magnolia x 'Elizabeth' / Magnolia
MG	Metasequoia glyptostroboides / Dawn Redwood
NS2	Nyssa sylvatica / Sour Gum
PA	Picea abies / Norway Spruce
PE	Platanus x acerifolia 'Exclamation' TM / Exclamation London Plane Tree
PR	Pinus rigida / Pitch Pine
QB	Quercus bicolor / Swamp White Oak
QL	Quercus robur x bicolor 'Long' / Regal Prince Oak
SP	Stewartia pseudocamellia / Japanese Stewartia
TE	Thuja occidentalis 'Emerald' / Emerald Arborvitae
TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
TS	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae
UP	Ulmus americana 'Princeton' / American Elm
SHRUBS	BOTANICAL / COMMON NAME
B2	Buxus sempervirens / American Boxwood
BW	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood
CH	Clethra alnifolia 'Hummingbird' / Summersweet Clethra
HB	Hibiscus syriacus 'Blue Satin' / Rose-of-Sharon
HL	Hydrangea paniculata 'Limelight' TM / Limelight Hydrangea
IP	Ilex x meserveae 'Blue Prince' TM / Blue Prince Holly
MP	Myrica pensylvanica / Northern Bayberry
PM	Pinus mugo / Mugo Pine
RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
RP	Rhododendron x 'P.J.M.' / Rhododendron P.J.M.
SB	Schizachyrium scoparium 'Blue Heaven' / Blue Heaven Little Bluestem
SG	Spiraea japonica 'Goldmound' / Spiraea
SM	Syringa meyeri 'Palibin' / Dwarf Korean Lilac
TD	Taxus x media 'Densifloris' / Dense Yew
GROUND COVERS	BOTANICAL / COMMON NAME
AB	Amsonia tabernaemontana 'Blue Ice' / Blue Ice Star Flower
FA	Festuca arundinacea / Tall Fescue Seed Mix
HO	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
LC	Liriope spicata / Creeping Lily Turf
MM	Mulch / Hardwood Mulch
PA2	Perovskia atriplicifolia / Russian Sage

SITE PLAN NOTE:

1. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
2. ALL SHRUBS WILL BE MAINTAINED TO A HEIGHT OF NO MORE THAN 36" TO ENSURE SIGHT LINES AT INTERSECTIONS.



PROFESSIONAL STAMP:

WEST END YARDS
 PREPARED FOR
CATE STREET DEVELOPMENT LLC

SHEET STATUS			
MARK	DATE	BY	RELEASE
A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
LANDSCAPE PLAN

PROJECT NUMBER:
 18041.00

L1.05

DATE: 03.18.2019
 PERMIT ISSUE

LANDSCAPE & SCREENING NOTES:

A) "THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR AND REPLACEMENT OF ALL REQUIRED SCREENING AND LANDSCAPE MATERIALS."

B) "ALL REQUIRED PLANT MATERIALS SHALL BE TENDED AND MAINTAINED IN A HEALTHY GROWING CONDITION, REPLACED WHEN NECESSARY, AND KEPT FREE OF REFUSE AND DEBRIS. ALL REQUIRED FENCES AND WALLS SHALL BE MAINTAINED IN GOOD REPAIR."

C) "THE PROPERTY OWNER SHALL BE RESPONSIBLE TO REMOVE AND REPLACE DEAD OR DISEASED PLANT MATERIALS IMMEDIATELY WITH THE SAME TYPE, SIZE AND QUANTITY OF PLANT MATERIALS AS ORIGINALLY INSTALLED, UNLESS ALTERNATIVE PLANTINGS ARE REQUESTED, JUSTIFIED AND APPROVED BY THE PLANNING BOARD OR PLANNING DIRECTOR."

CITY OF PORTSMOUTH PLANTING SPECIFICATIONS:

1. ALL PLANTING HOLES SHALL BE HAND DUG- NO MACHINES-NO EXCEPTIONS.
2. ALL WIRE CAGE AND BURLAP SHALL BE REMOVED FROM TREE AND PLANTING HOLE.
3. THE ROOT COLLAR OF THE TREE SHALL BE 2"-3" ABOVE GRADE.
4. ALL PLANTINGS SHALL BE BACKFILLED WITH SOIL FROM THE SITE AND AMENDED NO MORE THAN 20% WITH **ORGANIC** COMPOST.
5. ALL PLANTINGS SHALL BE BACKFILLED IN LIFTS AND ALL LIFTS SHALL BE WATERED SO THAT THE PLANTING WILL BE SET AND FREE FROM AIR POCKETS.
6. A RING OF SOIL SHALL BE CREATED AROUND THE PERIMETER OF THE HOLE TO CREATE A WELL FOR WATERING.
7. AT THE TIME THE PLANTING IS COMPLETE THE PLANTING SHALL RECEIVE ADDITIONAL WATER TO ENSURE THOROUGH HYDRATION OF THE ROOTS AND BACKFILL MATERIAL.
8. 2"-3" OF **COMPOSTED** WOODCHIPS SHALL BE PLACED OVER THE PLANTING AREA.
9. STAKES AND GUYS SHALL BE USED WHERE APPROPRIATE AND/OR NECESSARY. GUY MATERIAL SHALL BE NON-DAMAGING TO THE TREE.

SITE PLAN NOTE:

ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.

LANDSCAPE NOTES:

- 1) ALL SHRUBS ON PARKING LOT ISLANDS SHOULD BE MAINTAINED AT A HEIGHT OF NO MORE THAN 3 FEET, TO ENSURE SIGHT LINES AT INTERSECTIONS.

WEST END YARDS DETAILED PLANT SCHEDULE

Trees	Botanical Name / Common Name	Plant Size at Installation	Plant Size at maturity	Growth Habit	Salt Tolerance (soil)	Notes
5	Acer rubrum `Franksred` TM / Red Sunset Maple	2.5" cal.	45' ht.	Broadly Pyramidal	Low	Native
4	Gleditsia triacanthos inermis `Skycole` TM / Skyline Thornless Honey Locust	3" cal.	40' ht.	Broadly Pyramidal	High	
12	Ginkgo biloba `Princeton Sentry` / Princeton Sentry Ginkgo	2.5" cal.	60' ht.	Narrow Upright	High	Male Species Only
1	Magnolia X `Elizabeth` (M. acuminata X M. denudata) / Elizabeth Magnolia	2" cal	50' ht.	Pyramidal	Low	Very Cold Hardy
2	Metasequoia glyptostroboides / Dawn Redwood	12' ht.	70' ht.	Conically Pyramidal	Low	Hardy to Zone 5-B
3	Nyssa Sylvatica / Sour Gum	3" cal.	40-70' ht.	Pyramidal	Medium	Native
15	Picea abies / Norway Spruce	8' ht.	40' ht.	Pyramidal	Medium	
12	Platanus x acerifolia `Exclamation` TM / Exclamation London Plane Tree	2.5" cal.	75' ht.	Upright spreading	Medium	Hardy to Zone 5-B
24	Pinus rigida / Pitch Pine	5' ht.	30' ht.	Pyramidal	High	Native
20	Quercus bicolor / Swamp White Oak	3" cal.	60' ht.	Spreading	High	Native
6	Quercus robur x bicolor `Long` / Regal Prince Oak	3" cal.	60' ht.	Columnar	Medium	
2	Stewartia pseudocamellia / Japanese Stewartia	2" cal	30' ht.	Pyramidal/Oval	Low	Hardy to Zone 5-B
3	Thuja occidentalis `Emerald` / Emerald Arborvitae	6' ht.	6' ht.	Narrow Compact	High	Native
10	Thuja occidentalis `Holmstrup` / Holmstrup Cedar	7' ht.	5' ht.	Narrow Compact	High	Native
25	Thuja occidentalis `Smaragd` / Emerald Green Arborvitae	10' ht.	40' ht.	Conically Pyramidal	High	Native
8	Ulmus americana `Princeton` / American Elm	2.5" cal.	60' ht.	Ascending vase shape	High	Native
Shrubs						
21	Buxus sempervirens / American Boxwood	36" ht. x 36" spd.	4' ht. x 4' spd.	Globe shape	Low	
28	Buxus microphylla `Wintergreen` / Wintergreen Boxwood	5 gal.	4' ht. x 4' spd.	Globe shape	High	
27	Clethra alnifolia `Hummingbird` / Summersweet	3 gal	6' ht.	Spreading open	High	Tolerates salt spray
30	Hibiscus syriacus `Blue Satin` / Rose-of-Sharon	4' ht.	8' ht.	Upright Spreading	Low	Tolerates alkaline soil
51	Hydrangea paniculata `Limelight` TM / Limelight Hydrangea	3 gal.	4'-8' ht.	Spreading	High	Long Lived
26	Ilex x meserveae `Blue Prince` TM / Blue Prince Holly	4' ht.	12' ht.	Dense compact	Low	Very Cold Hardy
29	Myrica pensylvanica / Northern Bayberry	3 gal	6'-8' ht.	Rounded	High	Tolerates salt spray
8	Pinus mugo / Mugo Pine	7 gal.	4-10' ht.	Spreading	High	
68	Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac	3 gal.	2' ht.	Low Spreading	High	
262	Rhododendron x `P.J.M.` / Rhododendron P.J.M.	3 gal	4-8' ht.	Dense compact	Low	
116	Schizachyrium scoparium `Blue Heaven` / Blue Heaven Little Bluestem	3 gal	3-4' ht.	Upright	Medium	
15	Spiraea japonica `Goldmound` / Spirea	3 gal	4' ht. x 4' spd.	Rounded Bushy	Low	
35	Syringa meyeri `Palibin` / Dwarf Korean Lilac	5 gal.	4-8' ht.	Spreading	Medium	
307	Taxus x media `Densiformis` / Dense Yew	3 gal	4' ht.	Upright	High	
Ground Cover and Lawn						
123	Amsonia tabernaemontana `Blue Ice` / Blue Ice Star Flower	1 gal.	12" ht.	Spreading	Low	
197	Perovskia atriplicifolia / Russian Sage	1 gal.	3-4' ht.	Upright	High	
1319	Liriope spicata / Creeping Lily Turf	1 gal.	12" ht.	Spreading	Low	
16	Hemerocallis x `Stella de Oro` / Stella de Oro Daylily	1 gal.	12" ht.	Upright spreading	Medium	
76478	Festuca arundinacea / Tall Fescue Grass	SF				
13990	Mulch / Hardwood Mulch	SF				

SITE solutions

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SHEET STATUS

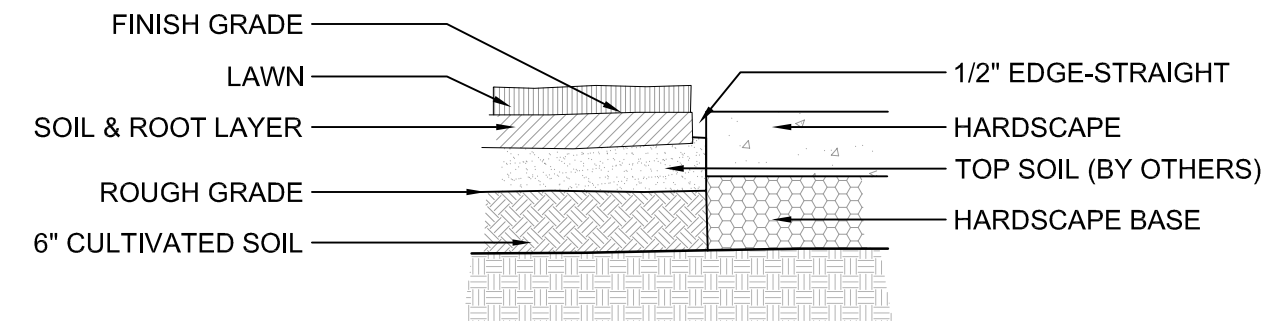
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C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
LANDSCAPE NOTES & PLANT SCHEDULES

PROJECT NUMBER:
 18041.00

L1.06

DATE: 03.18.2019
 PERMIT ISSUE

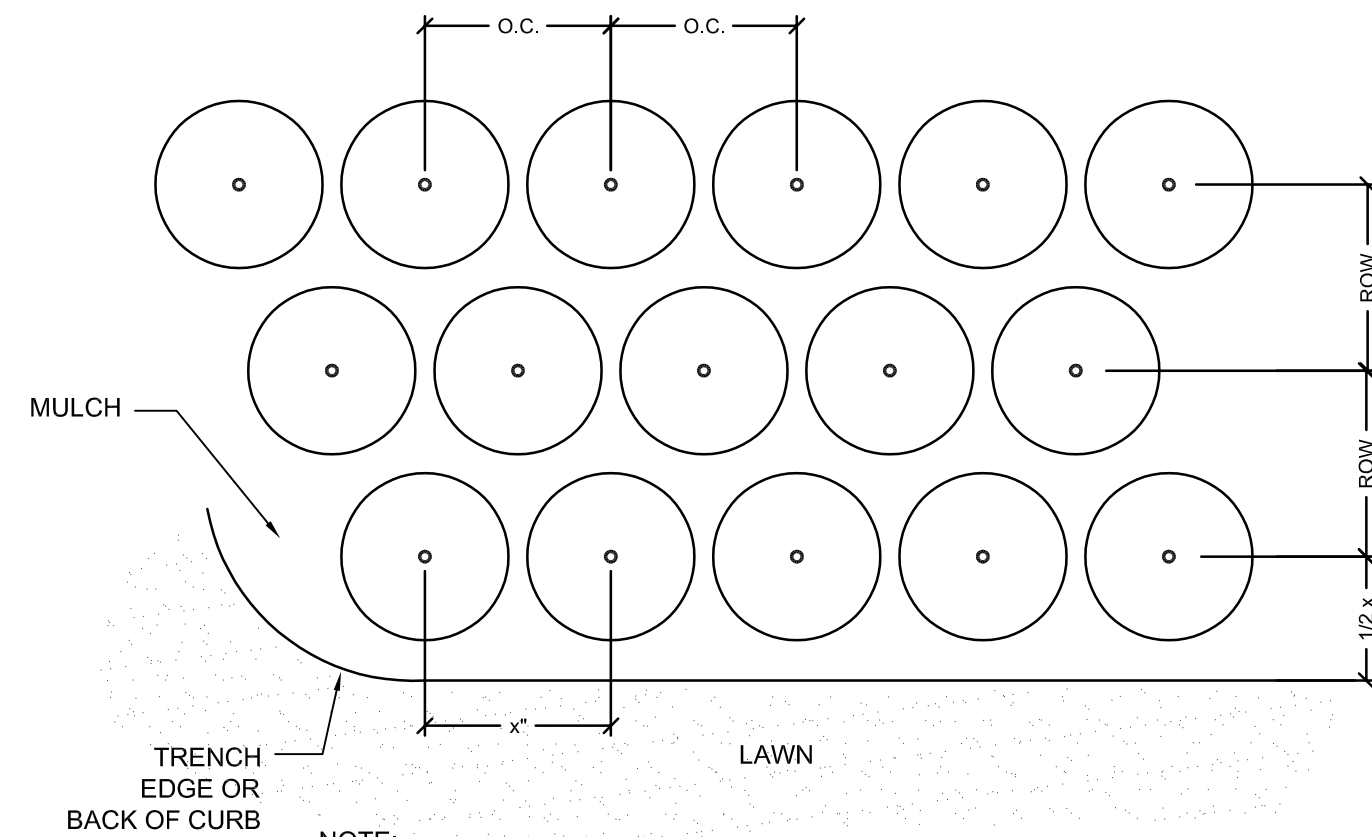


INSTALLATION NOTES:

1. GENERAL CONTRACTOR TO PROVIDE GRADES TO WITHIN TWO TENTH OF A FOOT FOR PROPOSED GRADES.
2. CULTIVATE TO A DEPTH OF 6".
3. FINE GRADE AS REQUIRED TO REACH FINISH GRADE PER CIVIL DRAWINGS.
4. APPLY LIME AND FERTILIZER, AS SPECIFIED.
5. APPLY PRE-EMERGENT HERBICIDE PER MANUFACTURE'S RECOMMENDATION.
6. LAY SOD & ROLL LEVEL.
7. WATER ENTIRE AREA THOROUGHLY.
8. 1. INSTALL SOD SO THAT THE TOP OF SOIL & ROOT LAYER IS LEVEL WITH TOP OF PAVEMENT

1 SECTION: TYP. SOD INSTALLATION

SCALE: N.T.S.

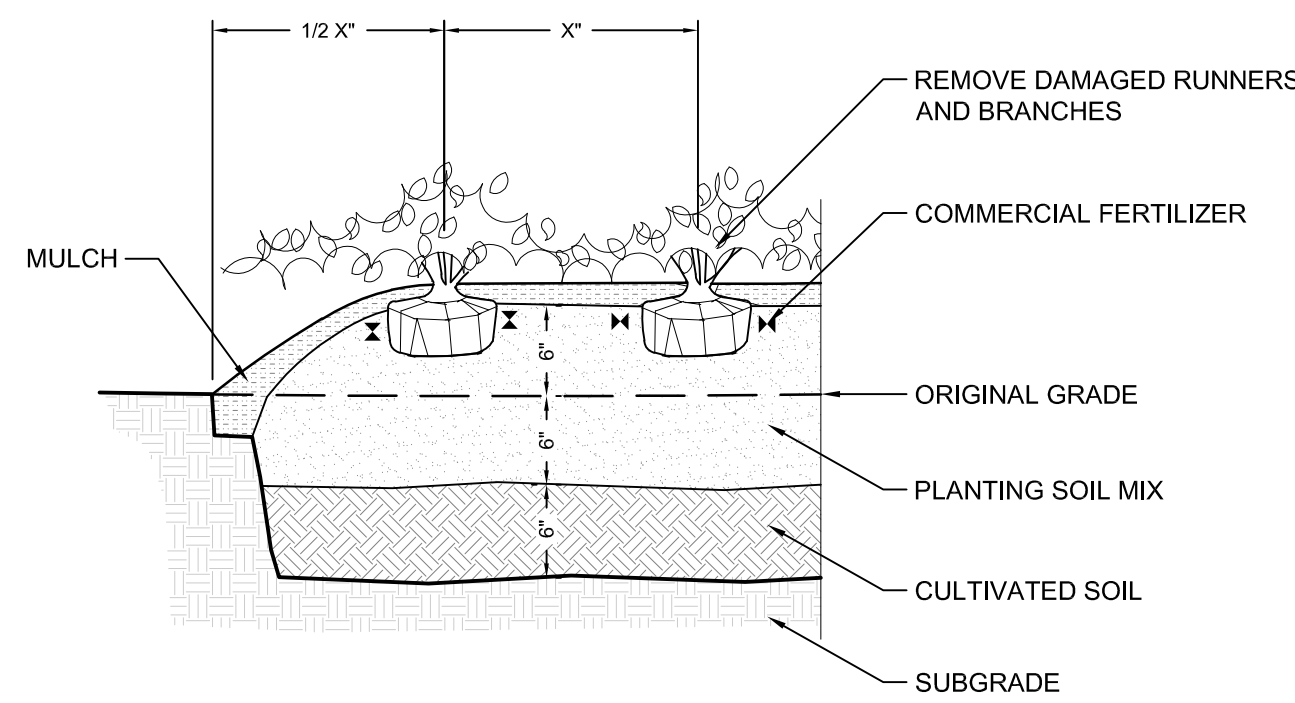


NOTE:

1. IF ROOTBALL IS WRAPPED IN NON-BIODEGRADABLE BURLAP, REMOVE ENTIRE WRAP AFTER PLACED IN PIT.
2. "X"= TYP. ON CENTER SPACING AS SHOWN ON PLANT SCHEDULE
3. ALL ROWS TO BE STRAIGHT AND PARALLEL

4 PLAN: TYP. PLAN MASS SPACING

SCALE: NTS

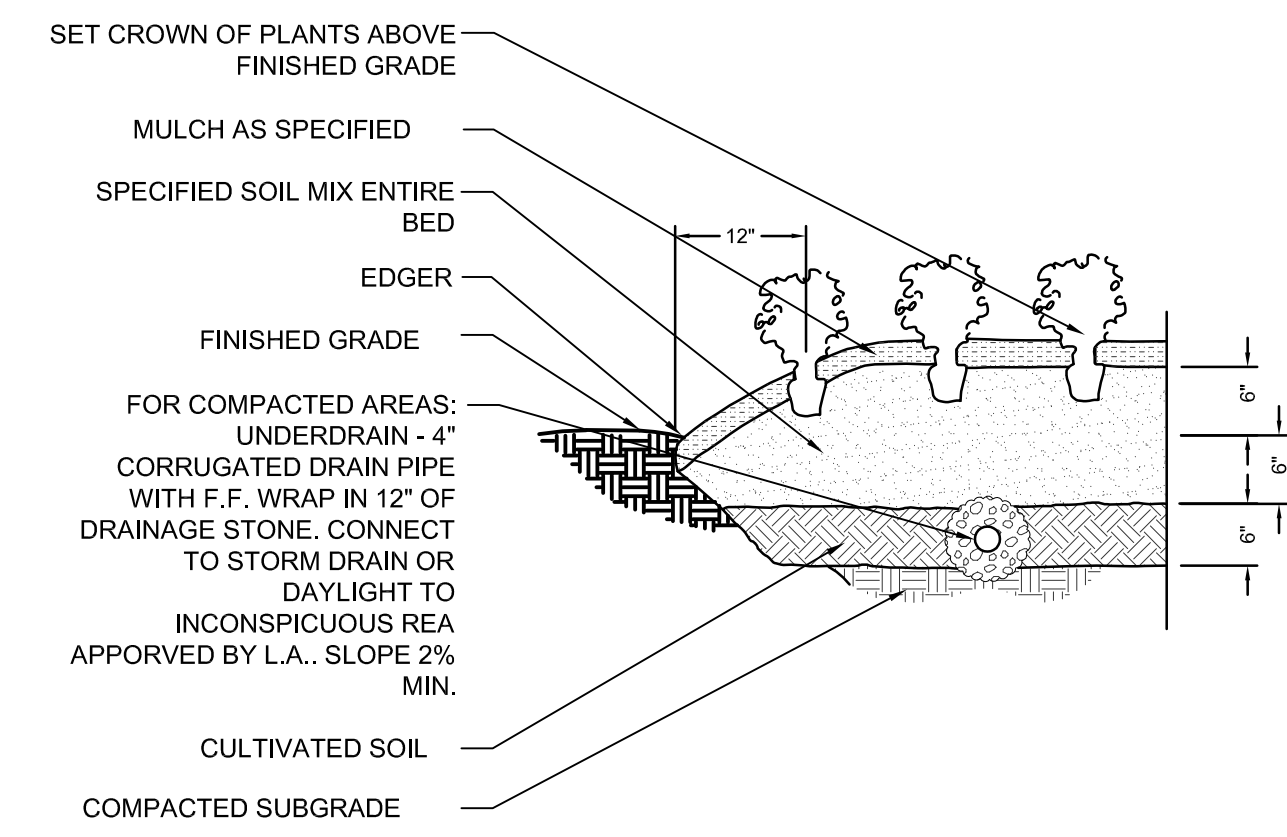


NOTES:

1. IF ROOTBALL IS WRAPPED IN NON-BIODEGRADABLE BURLAP, REMOVE ENTIRE WRAP AFTER PLACED IN PIT.
2. "X"= TYP. ON CENTER SPACING AS SHOWN ON PLANT SCHEDULE
3. ALL ROWS TO BE STRAIGHT AND PARALLEL
4. TYP. BED INSTALLATION DETAIL FOR ERICACEOUS PLANT MATERIAL (RHODODENDRON, AZALEAS, PIERIS, ECT.)

6 SECTION: TYP. ERICACEOUS PLANT MATERIAL INSTALL.

SCALE: NTS

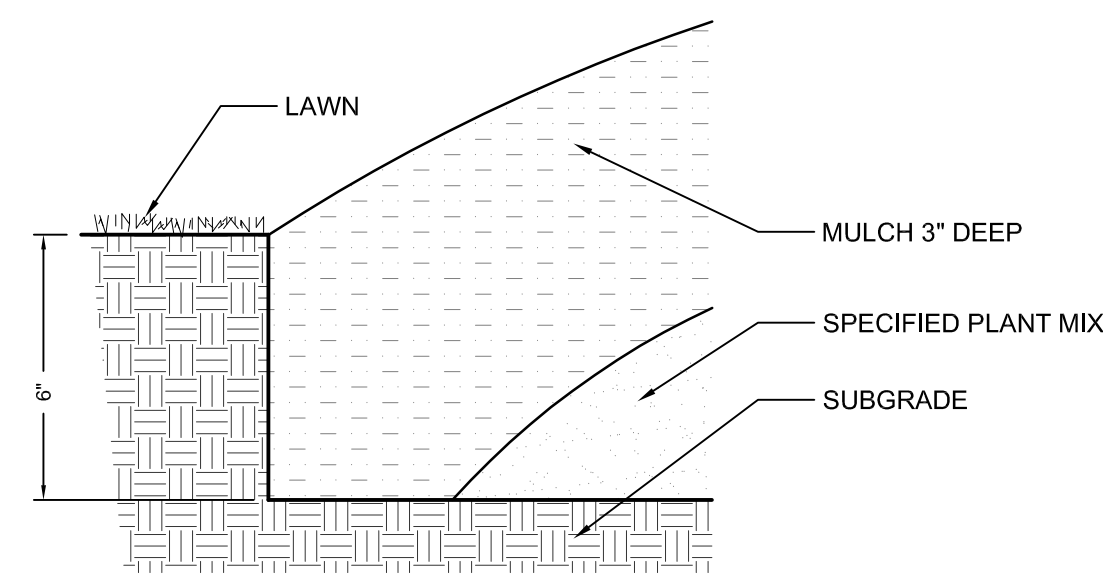


NOTES:

1. REFER TO SPECIFICATIONS FOR FERTILIZATION REQUIREMENTS.

7 SECTION: SEASONAL COLOR & PERENNIAL BED PREP.

SCALE: NTS

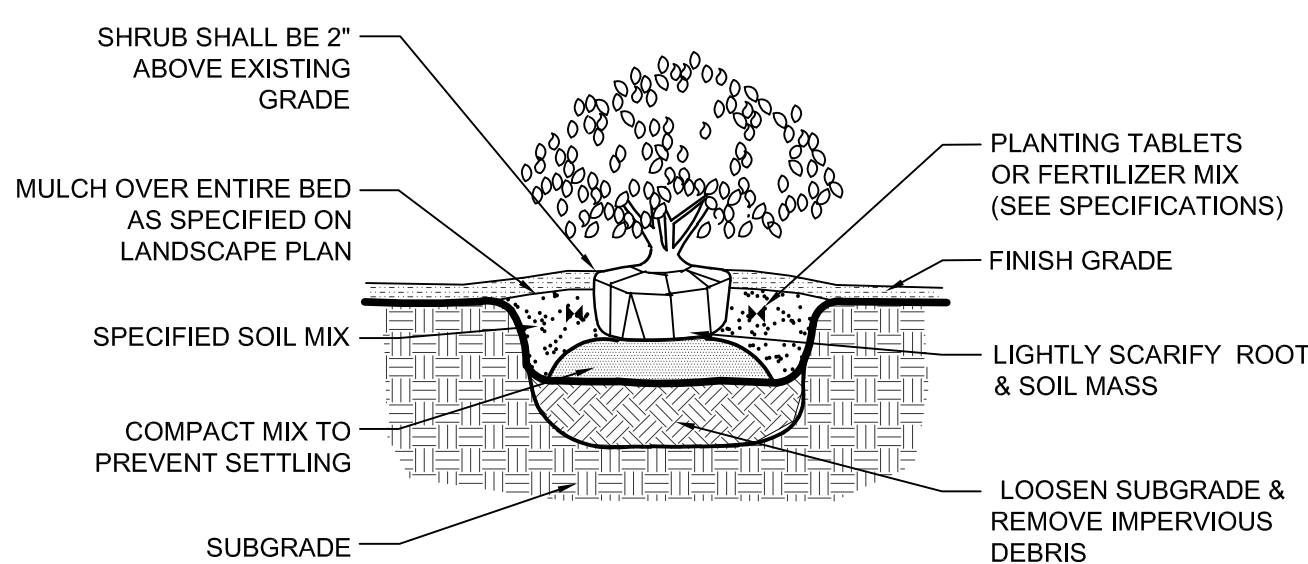


NOTES:

1. TRENCH EDGE IS TO BE LOCATED BETWEEN ALL PLANTING BEDS & LAWN AREAS.

2 SECTION: TRENCH EDGE

SCALE: NTS

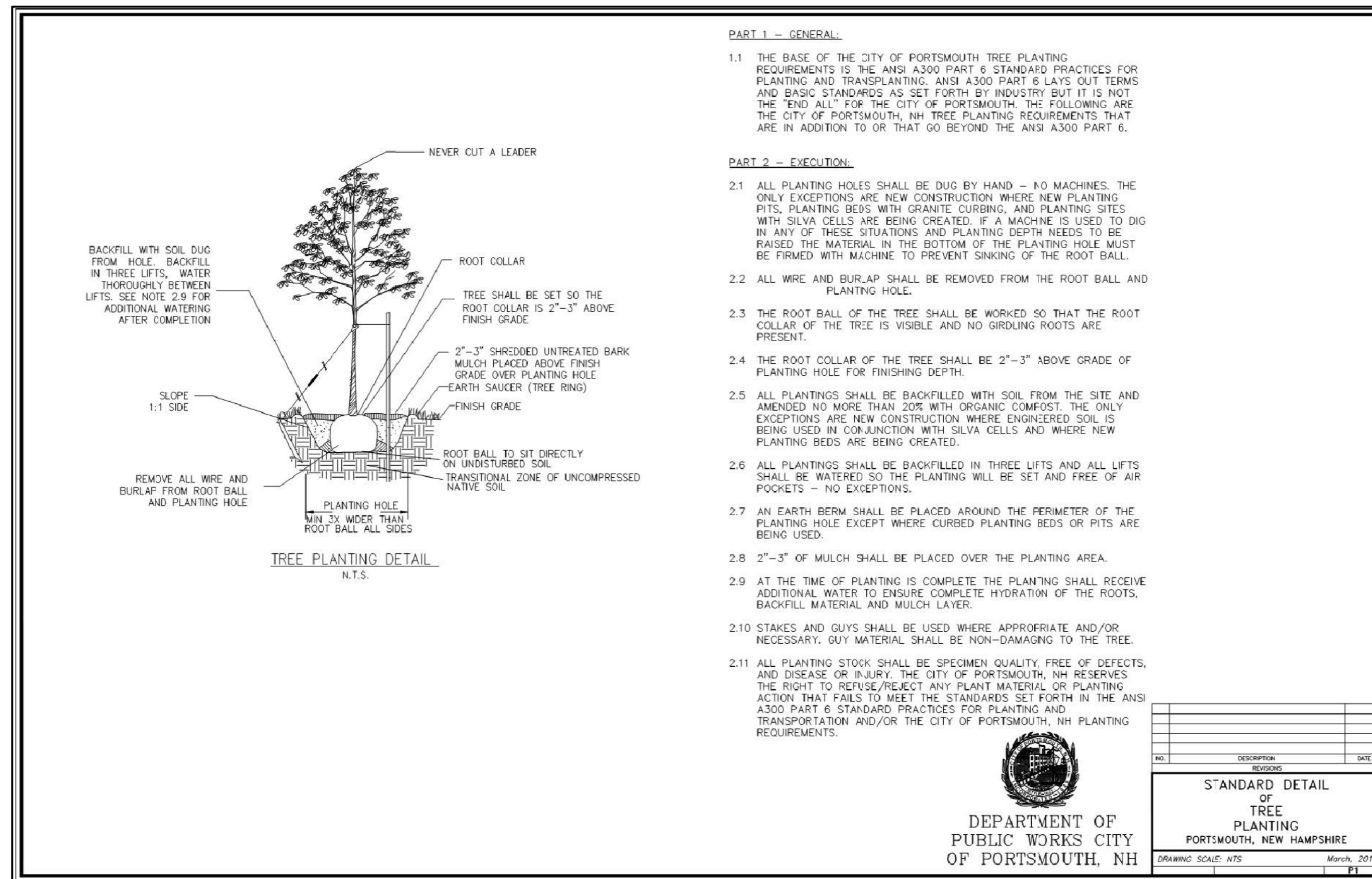


NOTES:

1. IF ROOTBALL IS WRAPPED IN NON-BIODEGRADABLE BURLAP, REMOVE ENTIRE WRAP AFTER PLACED IN PIT.

3 SECTION: TYP. CONTAINERIZED SHRUB PLANTING

SCALE: NTS



PART 1 - GENERAL:

- 1.1 THE BASE OF THE CITY OF PORTSMOUTH TREE PLANTING REQUIREMENTS IS THE ANSI A300 PART 6 STANDARD PRACTICES FOR PLANTING AND TRANSPLANTING. ANSI A300 PART 6 LAYS OUT TERMS AND BASIC STANDARDS AS SET FORTH BY INDUSTRY BUT IT IS NOT THE "END ALL" FOR THE CITY OF PORTSMOUTH. THE FOLLOWING ARE THE CITY OF PORTSMOUTH, NH TREE PLANTING REQUIREMENTS THAT ARE IN ADDITION TO OR THAT GO BEYOND THE ANSI A300 PART 6.

PART 2 - EXECUTION:

- 2.1 ALL PLANTING HOLES SHALL BE DIG BY HAND - NO MACHINES. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE NEW PLANTING PITS, PLANTING BEDS WITH GRANITE CURBING, AND PLANTING SITES WITH SILVA CELLS ARE BEING CREATED. IF A MACHINE IS USED TO DIG IN ANY OF THESE SITUATIONS AND PLANTING DEPTH NEEDS TO BE RAISED THE MATERIAL IN THE BOTTOM OF THE PLANTING HOLE MUST BE FIRMED WITH MACHINE TO PREVENT SINKING OF THE ROOT BALL.
- 2.2 ALL WIRE AND BURLAP SHALL BE REMOVED FROM THE ROOT BALL AND PLANTING HOLE.
- 2.3 THE ROOT BALL OF THE TREE SHALL BE WORKED SO THAT THE ROOT COLLAR OF THE TREE IS VISIBLE AND NO GIRDLING ROOTS ARE PRESENT.
- 2.4 THE ROOT COLLAR OF THE TREE SHALL BE 2"-3" ABOVE GRADE OF PLANTING HOLE FOR FINISHING DEPTH.
- 2.5 ALL PLANTINGS SHALL BE BACKFILLED WITH SOIL FROM THE SITE AND AMENDED NO MORE THAN 20% WITH ORGANIC COMPOST. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE ENGINEERED SOIL IS BEING USED IN CONJUNCTION WITH SILVA CELLS AND WHERE NEW PLANTING BEDS ARE BEING CREATED.
- 2.6 ALL PLANTINGS SHALL BE BACKFILLED IN THREE LIFTS AND ALL LIFTS SHALL BE WATERED SO THE PLANTING WILL BE SET AND FREE OF AIR POCKETS - NO EXCEPTIONS.
- 2.7 AN EARTH BERM SHALL BE PLACED AROUND THE PERIMETER OF THE PLANTING HOLE EXCEPT WHERE CURBED PLANTING BEDS OR PITS ARE BEING USED.
- 2.8 2"-3" OF MULCH SHALL BE PLACED OVER THE PLANTING AREA.
- 2.9 AT THE TIME OF PLANTING IS COMPLETE THE PLANTING SHALL RECEIVE ADDITIONAL WATER TO ENSURE COMPLETE HYDRATION OF THE ROOTS. BACKFILL MATERIAL AND MULCH LAYER.
- 2.10 STAKES AND GUYS SHALL BE USED WHERE APPROPRIATE AND/OR NECESSARY. GUY MATERIAL SHALL BE NON-DAMAGING TO THE TREE.
- 2.11 ALL PLANTING STOCK SHALL BE SPECIMEN QUALITY, FREE OF DEFECTS, AND DISEASE OR INJURY. THE CITY OF PORTSMOUTH, NH RESERVES THE RIGHT TO REUSE/REJECT ANY PLANT MATERIAL OR PLANTING ACTION THAT FAILS TO MEET THE STANDARDS SET FORTH IN THE ANSI A300 PART 6 STANDARD PRACTICES FOR PLANTING AND TRANSPORTATION AND/OR THE CITY OF PORTSMOUTH, NH PLANTING REQUIREMENTS.



DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH

NO.	DESCRIPTION	DATE

STANDARD DETAIL OF TREE PLANTING
PORTSMOUTH, NEW HAMPSHIRE
DRAWING SCALE: NTS March, 2015

5 DETAIL: TREE PLANTING

SCALE: NTS

1. Contractor to carefully examine the contract documents and existing conditions before submitting bid proposal or commencing work.
2. Damage to existing utilities or site improvements caused by the contractor are the full responsibility of contractor.
3. Contractor's base bid to include all materials, labor, permits, equipment, tools, insurance, ETC. to perform the work as described in the contract documents.
4. Contractor to complete work within schedule established by owner.
5. Contractor to provide one year warranty for all material from date of substantial completion.
6. Provide unit price for all materials (installed cost) listed on the plant schedule.
7. Contractor to provide interim maintenance (watering, pruning, fertilizing, guying, mowing, trimming, adequate drainage of ponding areas, edging, weeding, mulching, application of insecticides/herbicides, and general landscape clean-up) until substantial completion notice is provided by the owner or landscape architect.
8. Perform work in compliance with all applicable laws, codes, and regulations required by authorities having jurisdiction over such work and provide for permits required by local authorities.
9. Topsoil shall be natural, fertile, friable, sandy clay loam capable of sustaining plant growth, free of stones, stumps, ETC.
10. For all turf lawn areas spread 2-3" of topsoil into existing soil to a depth of 6" below finish grade. Hand rake finished grades to provide even contours.
11. All planted material shall be equivalent in quality to specimen grade or better, as noted by the American Association of Nurserymen, latest edition. All trees of lesser quality shall be rejected by the city arborist.
12. Plant material to be free of disease, insect pests, eggs, or larvae. Damaged plant material shall be rejected.
13. Mulch to be clean, fresh, new, double shredded bark, 3 inches deep.
14. Test plant beds and plant pits for adequate drainage. Work shall be made by the contractor at no additional cost to owner. Hardpan or moisture barriers shall be broken, or drain pipes to be installed to provide proper drainage of plant areas. Plant pits shall be excavated to the bottom of the pit. Fill each plant pit with water and observe the pit for 2 hours. If the water has not dissipated by 50% within 2 hours, notify the landscape architect of such in writing before installing plants in the questionable area(s), otherwise contractor shall be held liable for the livability of the plant. In hardpan conditions where water does not drain within 2 hours, install drain pipes as per tree planting in compacted soil area detail.
15. Trees shall be installed 2-3" above finish grade in hardpan areas unless otherwise directed to provide drainage.
16. Plant beds shall be neatly edged using a 3" wide by 6" wide deep trench. Provide 2/1 side slope behind trench edge.
17. Ground cover, shrub mass beds shall be cultivated to a depth of 12 inches below grade to break through compacted or hardpan soil. Remove all stones, roots, and inferior material. Add specified soil amendments and fertilizer. Elevate entire bed 6 inches above original grade. Rake to a consistent smooth surface. Install plants, edge bed area, mulch and water thoroughly.
18. Set all plants plumb and turned so that the most attractive side is viewed.
19. Plants shall be measured to their main structure, not tip to tip of branches.
20. Remove top one-third burlap of B & B wrapping. Remove all binding. If rootball is wrapped in non-biodegradable burlap, remove entire wrap after placed in pit.
21. Tree pit and shrub pit to be twice the size of the root mass. Fill with plant mix. See details.
22. Broken root balls for trees shall be rejected.
23. Any plant materials shipped to site in uncovered vehicles/ trailer shall be rejected regardless of season.
24. Space shrubs, ground cover, and seasonal color evenly and in straight rows.
25. All tree scars over 1 -1/2" shall be rejected and tree to be replaced.
26. All shrubs to be dense and full. All trees to have a symmetrical growth habit (360 degrees) unless uncharacteristic to plant type.
27. Scarify root mass of shrubs and ground cover before installing.
28. Remove all excess growth of trees and shrubs as directed by landscape architect. Do not cut central leader.
29. Layout all plant material according to landscape drawings. Receive approval of all layouts before installation. Adjustments to the layout shall be made by the landscape architect. Landscape contractor to make adjustments to layout at no additional cost to the owner. Landscape contractor responsible for adjustment of layout in order to avoid utilities. Notify landscape architect of contemplated adjustments to the layout and receive approval before commencing.
30. General contractor to provide grades to two-tenths (.20+) of a foot of proposed finish grades.
31. All shrubs shall be dense and well-branched from bottom to top and all sides. "Leggy" shrubs will be rejected by L.A.
32. Owner or landscape architecture shall review project at completion of installation for substantial completion. Final completion shall be given at the end of the warranty period if all items are completed to the owner's satisfaction. Contractor shall be notified in writing of substantial and final completion dates.
33. See civil drawings for further information regarding: erosion sediment control information, locations of existing and proposed structures, paving, driveways, cut and fill areas, and retention areas, limits of construction, locations of existing and proposed utilities or easements.
34. Contractor shall collect three (3) soil samples of existing soil from areas on site to receive planting for testing. Each soil sample shall be approximately 1 kg. (1 gal. zip lock bag) in volume and will receive the following tests by A&L Agricultural Labs:
- s1-a
- s3
- texture analysis
- infiltration
34. Sight lines may not be obstructed between a height of 30-inches and 84-inches above the crown of the roadway surface. The property owner must maintain all landscaping according to this requirement at all times.

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300 Northcreek Bldg. 300 F: 404.705.9491
Atlanta, Georgia 30327 www.sitesolutionsla.com

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PROFESSIONAL STAMP:

WEST END YARDS

PREPARED FOR

CATE STREET DEVELOPMENT LLC

SHEET STATUS

MARK	DATE	BY	RELEASE
A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	08/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:

LANDSCAPE DETAILS

PROJECT NUMBER:

18041.00

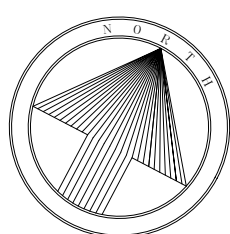
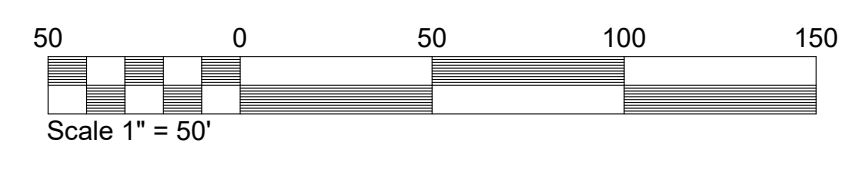
L2.01

DATE: 03.18.2019

PERMIT ISSUE




AREA TO RECEIVE HIGH EFFICIENCY IRRIGATION SYSTEM



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SHEET STATUS			
MARK	DATE	BY	RELEASE
A	03/18/2019	SS	TAC SUBMITTAL
B	05/20/2019	SS	TAC RE-SUBMITTAL
C	06/20/2019	SS	TAC RE-SUBMITTAL
D	07/24/2019	JM	TAC RE-SUBMITTAL

SHEET TITLE:
IRRIGATION LAYOUT PLAN

PROJECT NUMBER:
 18041.00

IR1.01

DATE: 03.18.2019
 PERMIT ISSUE

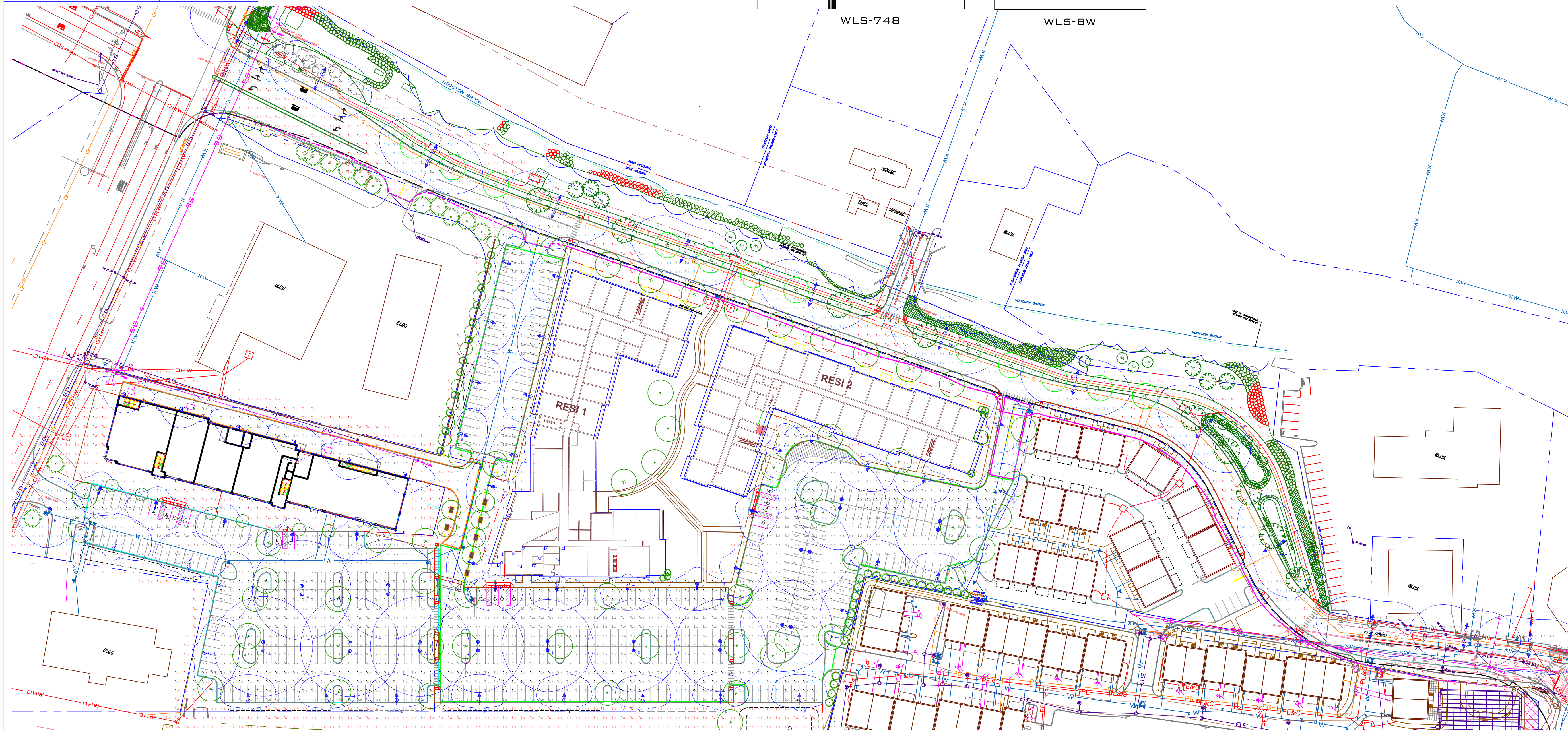
REVISIONS			5	6/20/19	TO
REV #	DATE	BY:	6	6/23/19	TO
1	12/10/18	TO	7	7/10/19	TO
2	3/17/19	TO			
3	5/16/19	TO			
4	5/19/19	TO			



WLS-748



WLS-BW



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BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.

Label	Avg	Max	Min	Avg/Min	Max/Min	PtSpClr	PtSpTb
CATE ST ENTRANCE	1.8	4.4	0.9	2.0	4.9	10	10
RESIDENTIAL PARKING	2.8	6.4	0.8	3.5	8.0	10	10
RETAIL PARKING	3.6	7.1	1.1	3.3	6.5	10	10
RETAIL REAR AND SIDE	2.3	4.7	0.3	7.8	15.7	10	10

Symbol	Qty	Label	Lumens	LLF	Description	Lum. Watts
	5	A	N.A.	0.950	WLS-748-135W-5P-4K 20' MOUNTING HEIGHT	135
	1	B	N.A.	0.950	WLS-748-135W-5P-4K 20' MOUNTING HEIGHT	135
	4	C	N.A.	0.950	WLS-748-135W-4F-4K-HS 20' MOUNTING HEIGHT	135
	8	D	N.A.	0.950	WLS-748-110W-5P-4K 20' MOUNTING HEIGHT	110
	10	E	N.A.	0.950	WLS-748-80W-4F-4K 16' MOUNTING HEIGHT	80
	28	F	N.A.	0.950	WLS-748-80W-4F-4K-HS 16' MOUNTING HEIGHT	80
	6	G	N.A.	0.980	WLS-BW-70-2M-4K ASST MOUNTING HEIGHT	70
	13	ST2	9316	0.900	AFFIN-S801-80W-30K-T2-10-M 25' MOUNTING HEIGHT	80

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PORTSMOUTH, NH

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SCALE: 1"=60'

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PM: ROBBY

BY: TO

SHEET 1 OF 1

ABUTTERS

TAX MAP 158, LOT 13 SLATTERY & DUMONT, LLC 66 OLD CONCORD TURNPIKE #10 BARRINGTON, NH 03825 R.C.R.D. BOOK 3471, PAGE 196

TAX MAP 163, LOT 37 CITY OF PORTSMOUTH PO BOX 628 PORTSMOUTH, NH 03802 R.C.R.D. BOOK 2284 PAGE 812

TAX MAP 165, LOT 1 CATE STREET LLC 105 BARTLETT STREET PORTSMOUTH, NH 03801 R.C.R.D. BOOK 5903 PAGE 1436

TAX MAP 174, LOT 14 AER RE LLC 185 COTTAGE STREET PORTSMOUTH, NH 03801 R.C.R.D. BOOK 5965, PAGE 2216

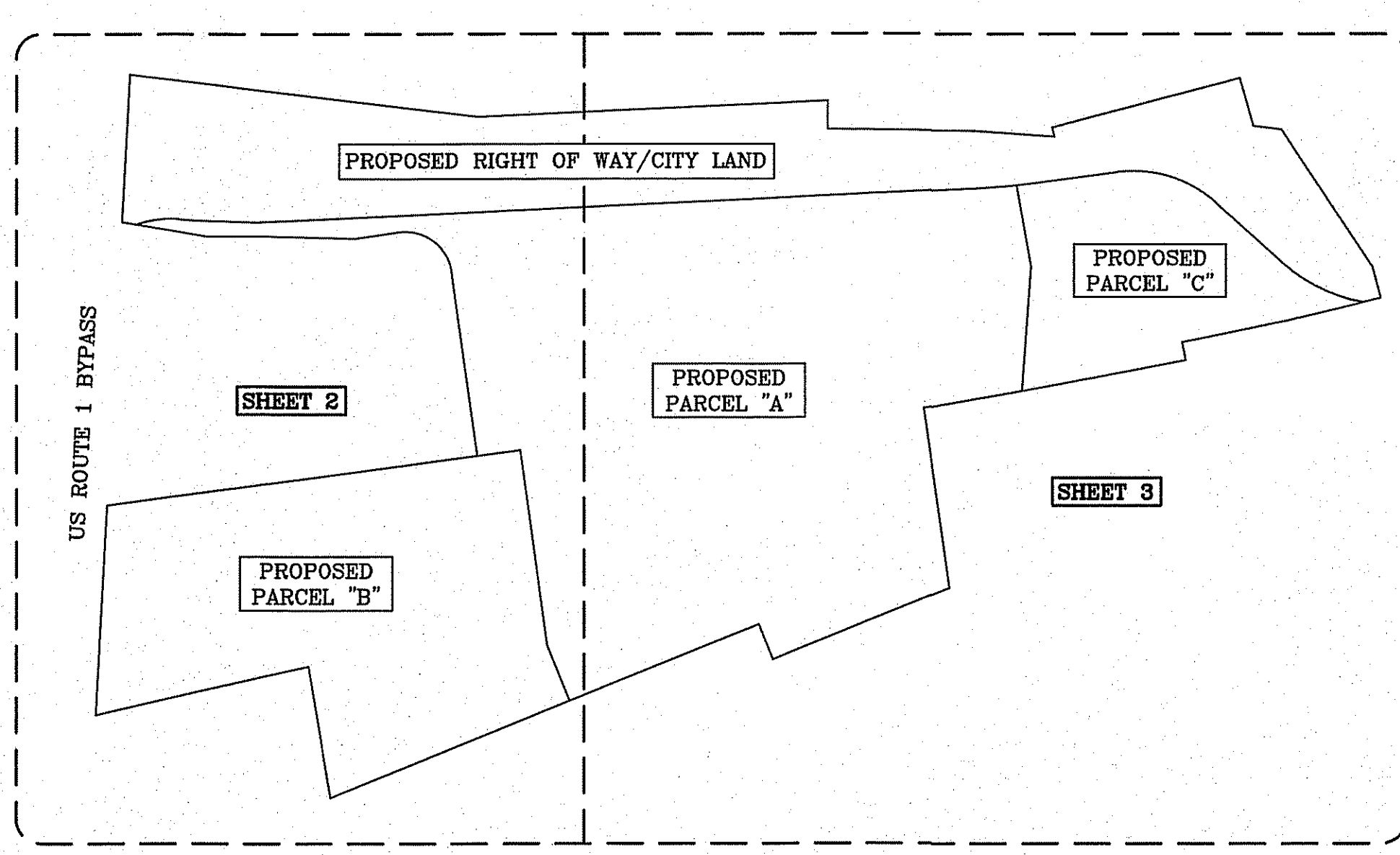
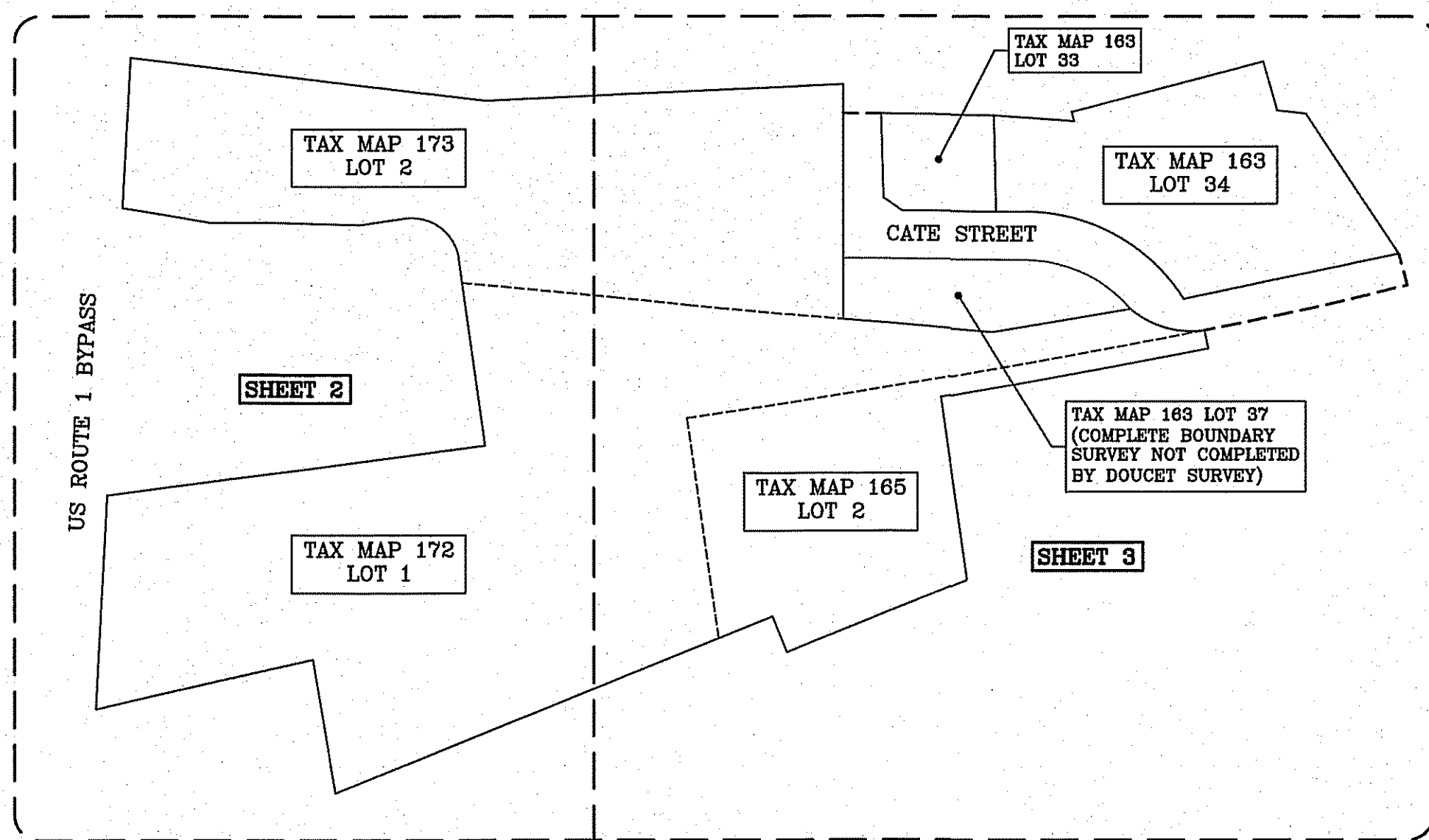
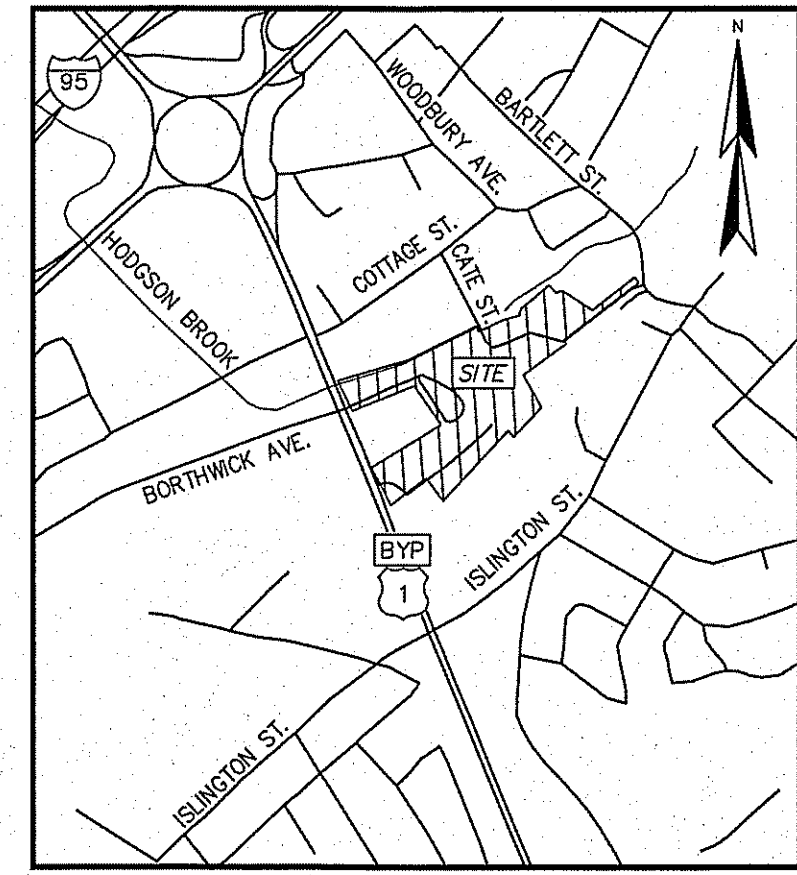
TAX MAP 234, LOT 51 MEADOWBROOK INN CORP. C/O PORTSMOUTH CHEVROLET 549 ROUTE 1 BYPASS PORTSMOUTH, NH 03801 R.C.R.D. BOOK 2382, PAGE 1968

NOTES:

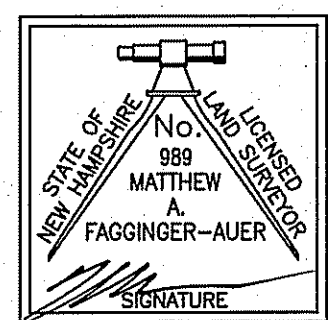
- 1. REFERENCE: TAX MAP 163, LOT 33 - 12,230 SF OR 0.28 AC. TAX MAP 163, LOT 34 - 64,109 SF OR 1.47 AC.
2. OWNER OF RECORD: CATE STREET DEVELOPMENT LLC 11 ELKINS STREET, SUITE 420 BOSTON, MA 02127 R.C.R.D. BOOK 5959, PAGE 109
3. ZONES: GW1-GATEWAY NEIGHBORHOOD MIXED USE CORRIDOR (SEE CITY OF PORTSMOUTH ZONING ORDINANCE FOR DIMENSIONAL REQUIREMENTS. SUBJECT LOTS WERE REZONED TO GW1 ON DECEMBER 4, 2017 PER SAID ORDINANCE.)

REFERENCE PLANS

- 1. "MAINE-NEW HAMPSHIRE INTERSTATE BRIDGE AUTHORITY, PISCATAQUIA RIVER BRIDGE, KITTERY, MAINE-PORTSMOUTH, NEW HAMPSHIRE, RIGHT OF WAY MAPS, N.H. APPROACH, BY ALBERT MOULTON, CE, DATED 1954, ON FILE A THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.
2. "PLAT OF LAND U.S. ROUTE 1 BY-PASS PORTSMOUTH, NEW HAMPSHIRE FOR GRIFFIN FAMILY CORP.", BY DURGIN, VERRA AND ASSOCIATES, INC., DATED JANUARY 20, 1992, RECEIVED FROM THE OFFICE OF JAMES VERRA.



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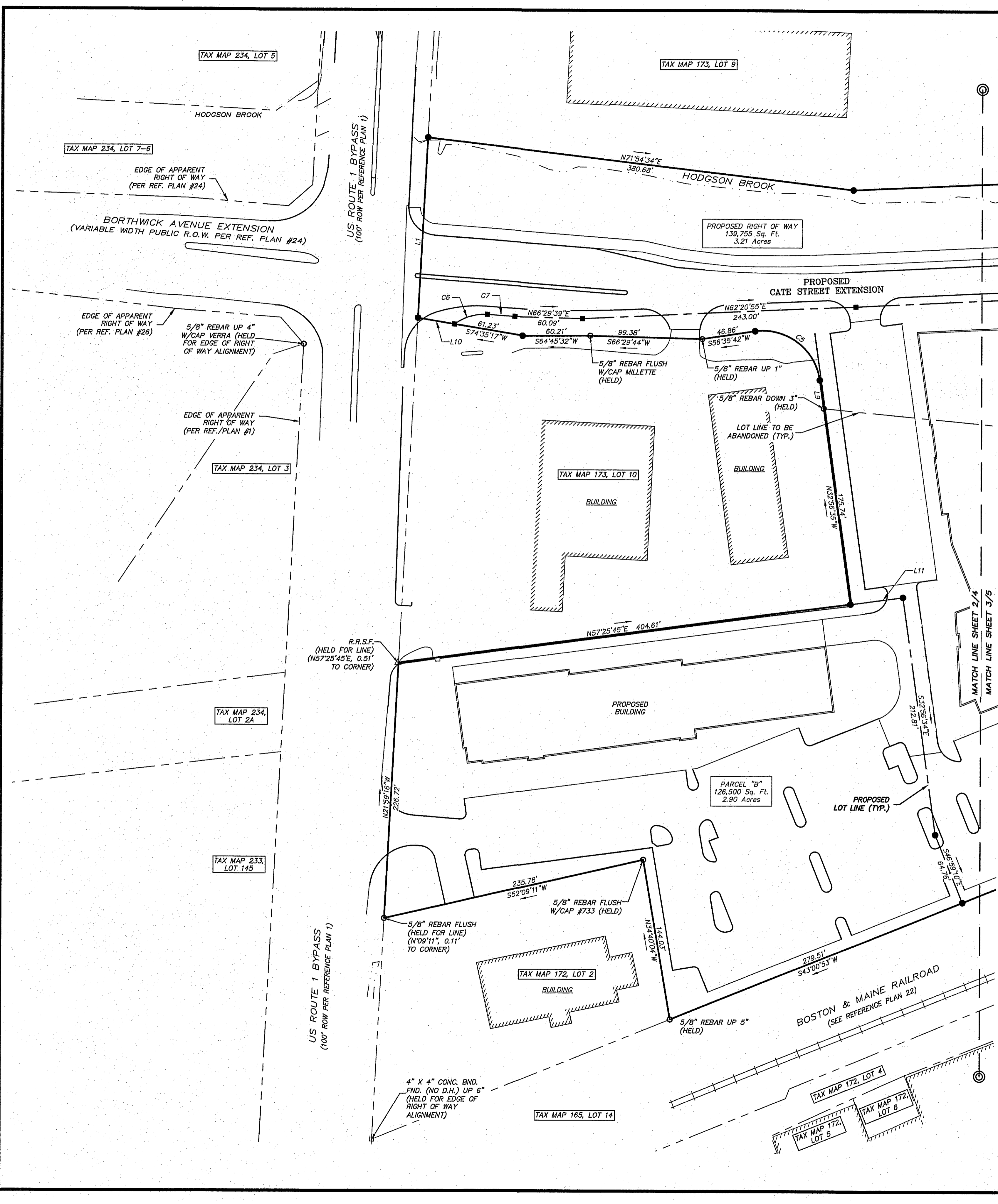


APPROVED FOR THE RECORD
CHAIRMAN PORTSMOUTH PLANNING BOARD DATE

SUBDIVISION PLAN FOR CATE STREET DEVELOPMENT LLC OF TAX MAP 163, LOTS 33 & 34 TAX MAP 165, LOT 2 TAX MAP 172, LOT 1 TAX MAP 173, LOT 2 CATE STREET & US ROUTE 1 BYPASS PORTSMOUTH, NEW HAMPSHIRE

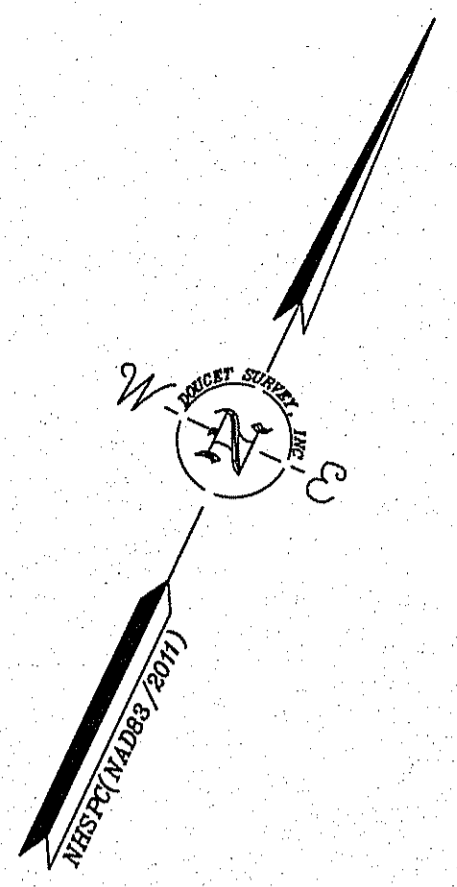
Table with columns: NO., DATE, DESCRIPTION, BY. Includes drawing details like DRAWN BY: M.W.F., DATE: JULY 3, 2019.

DOUCET SURVEY logo and contact information: Serving Your Professional Surveying & Mapping Needs, 102 Kent Place, Newmarket, NH 03857 (603) 659-6560.



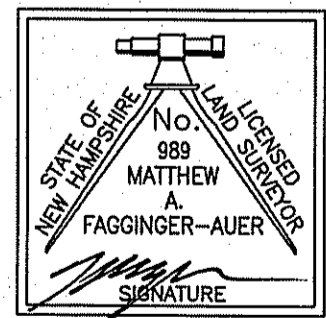
CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	19.41'	2836.93'	0°23'31"	S50°31'13"W	19.41'
C2	134.92'	2836.93'	2°43'29"	N52°04'44"E	134.90'
C3	180.71'	11451.20'	0°54'15"	N54°18'39"E	180.71'
C4	108.14'	11451.20'	0°32'28"	N55°02'01"E	108.14'
C5	80.85'	51.00'	90°49'33"	S78°21'38"E	72.64'
C6	30.94'	45.00'	39°23'52"	N48°30'09"E	30.34'
C7	24.56'	1008.50'	1°23'42"	N68°53'56"E	24.56'
C8	38.52'	635.87'	3°28'15"	N60°29'39"E	38.51'
C9	15.14'	635.87'	1°21'52"	N58°04'35"E	15.14'
C10	115.78'	133.00'	49°52'37"	N82°19'58"E	112.16'
C11	99.86'	178.00'	32°08'32"	N88°47'59"W	98.55'
C12	181.57'	200.00'	52°00'57"	S83°14'19"E	175.40'
C13	84.14'	100.00'	48°12'27"	N81°13'11"E	81.68'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N21°59'16"W	161.10'
L2	S25°06'26"E	30.74'
L3	N65°44'42"E	40.75'
L4	N38°11'17"W	10.00'
L5	N71°55'42"E	30.64'
L6	S40°12'57"E	34.79'
L7	S36°26'29"E	20.00'
L8	N46°59'07"W	41.00'
L9	N32°56'35"W	25.61'
L10	S74°35'17"W	32.88'
L11	N57°25'45"E	47.00'
L12	S26°33'24"E	20.39'
L13	S79°44'51"E	24.00'
L14	N65°28'25"E	31.49'
L15	S55°22'43"W	92.06'
L16	S55°22'43"W	56.61'
L17	N20°49'54"W	60.72'
L18	N20°49'54"W	74.81'
L19	N35°02'16"W	44.30'
L20	N35°02'16"W	46.03'



SUBDIVISION PLAN
 FOR
CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE

- LEGEND**
- LOT LINE
 - - - PROPOSED LOT LINE
 - - - APPARENT RIGHT OF WAY LINE
 - - - LOT LINE TO BE ABANDONED
 - - - APPROXIMATE BUTTER LOT LINE
 - - - EDGE OF WETLAND
 - BOUND FOUND
 - △ R.R.S.F. RAILROAD SPIKE FOUND
 - IRON PIPE/ROD FOUND
 - 4" X 4" GRANITE BOUND TO BE SET
 - 5/8" REBAR W/ID CAP TO BE SET
 - BND. FND. BOUND FOUND
 - I.P.F. IRON PIPE FOUND
 - CONC. CONCRETE
 - D.H. DRILL HOLE



I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

[Signature] L.L.S. #989
 DATE 4/13/19

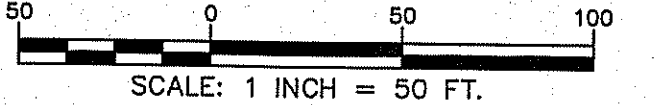
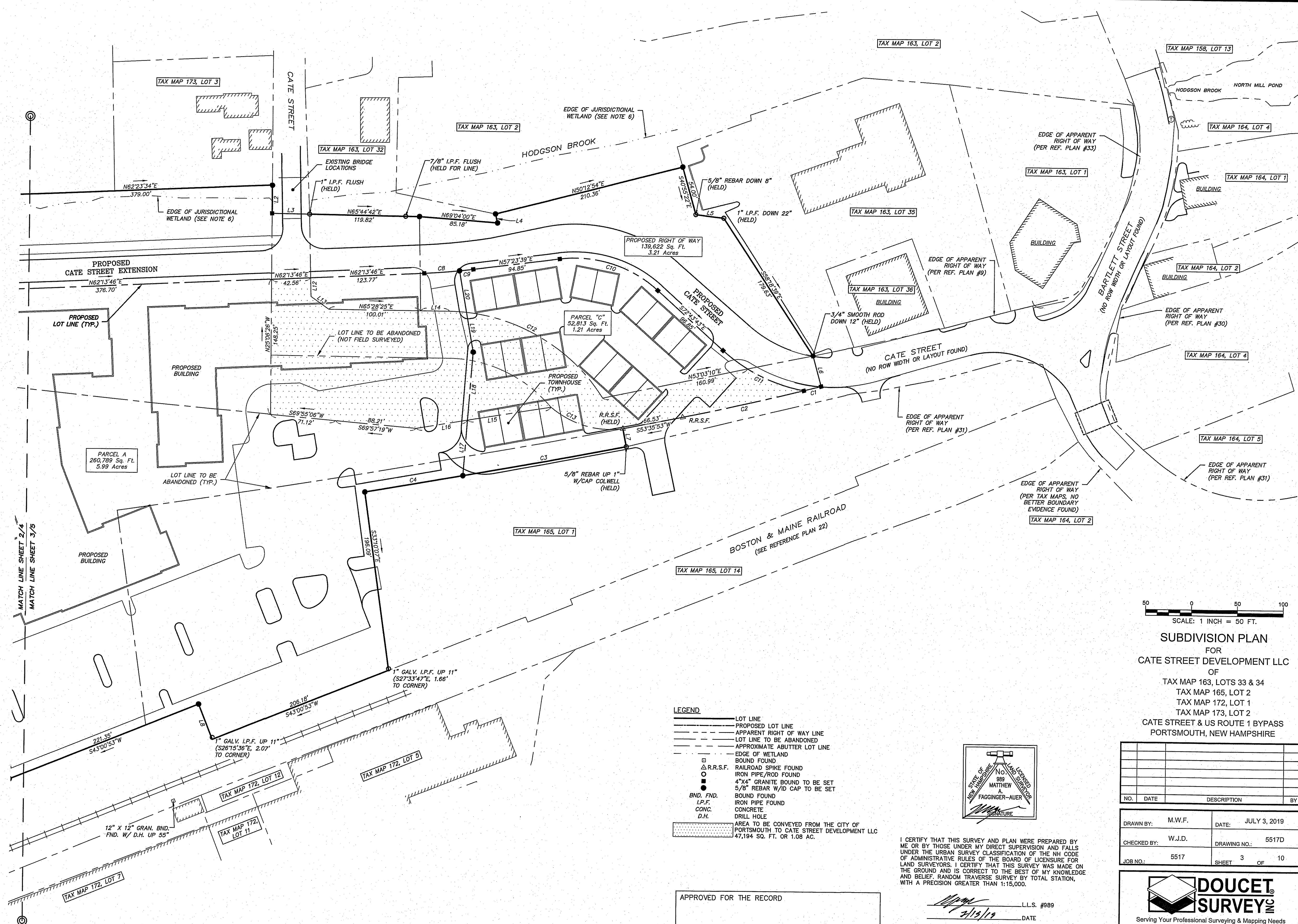
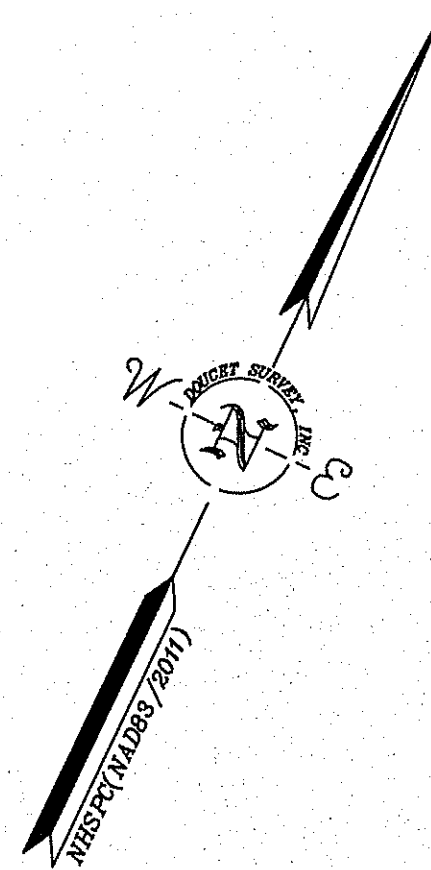
APPROVED FOR THE RECORD
 CHAIRMAN PORTSMOUTH PLANNING BOARD DATE

NO.	DATE	DESCRIPTION	BY

DRAWN BY: M.W.F.	DATE: JULY 3, 2019
CHECKED BY: W.J.D.	DRAWING NO.: 5517D
JOB NO.: 5517	SHEET 2 OF 10

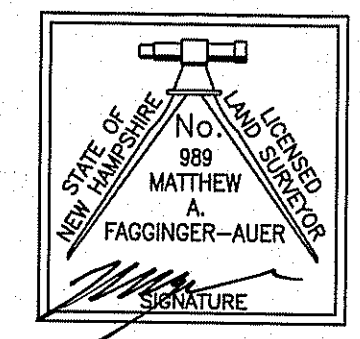
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SUBDIVISION PLAN
 FOR
CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE

- LEGEND**
- LOT LINE
 - - - PROPOSED LOT LINE
 - · - - APPARENT RIGHT OF WAY LINE
 - · - - LOT LINE TO BE ABANDONED
 - · - - APPROXIMATE ADJUTTER LOT LINE
 - · - - EDGE OF WETLAND
 - BOUND FOUND
 - △ R.R.S.F.
 - RAILROAD SPIKE FOUND
 - IRON PIPE/ROD FOUND
 - 4"x4" GRANITE BOUND TO BE SET
 - 5/8" REBAR W/D CAP TO BE SET
 - BOUND FOUND
 - IRON PIPE FOUND
 - CONC.
 - D.H.
 - DRILL HOLE
 - AREA TO BE CONVEYED FROM THE CITY OF PORTSMOUTH TO CATE STREET DEVELOPMENT LLC 47,194 SQ. FT. OR 1.08 AC.



I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

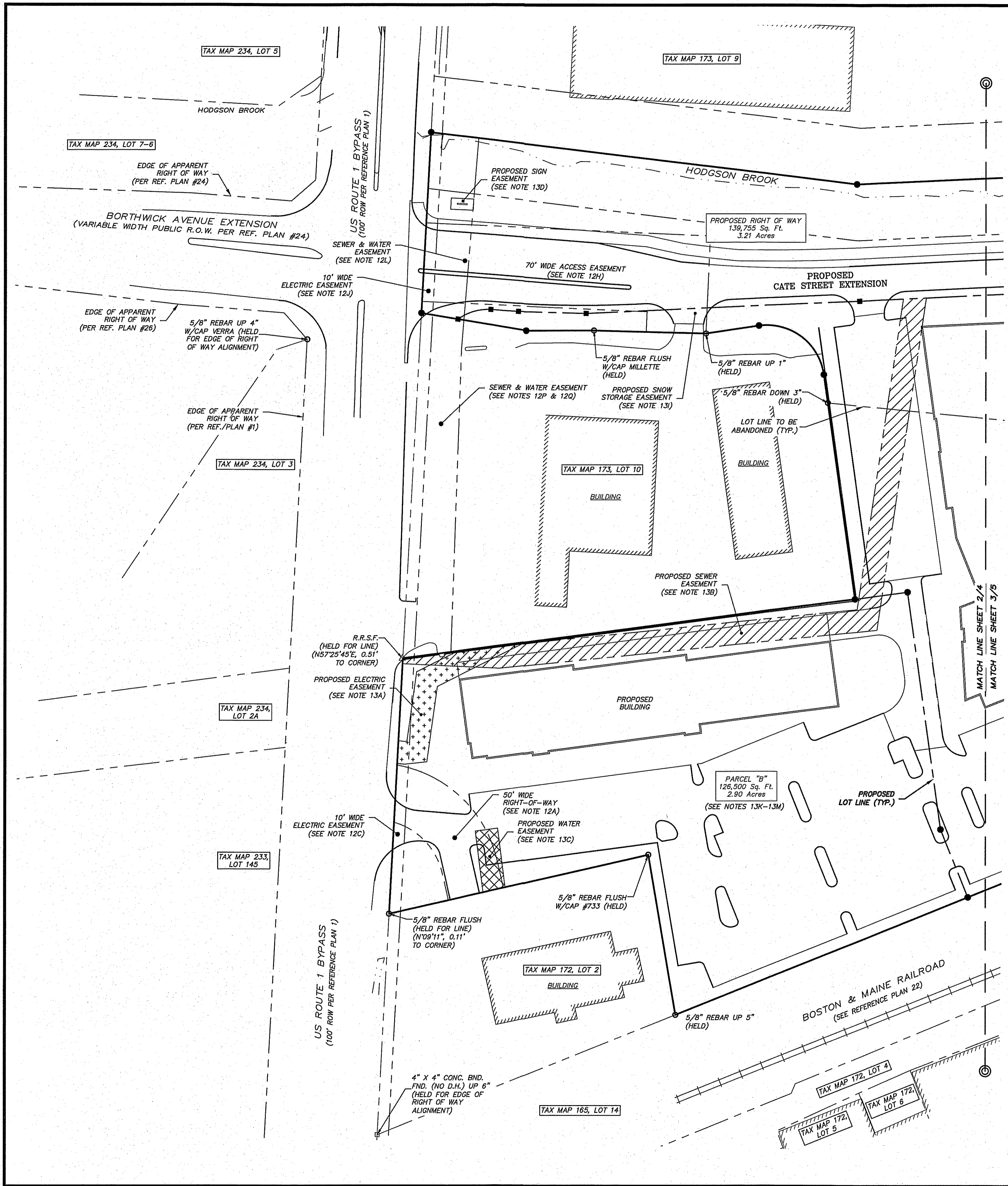
APPROVED FOR THE RECORD
 _____ L.L.S. #989
 DATE 2/15/19
 CHAIRMAN PORTSMOUTH PLANNING BOARD DATE

NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	3 OF 10

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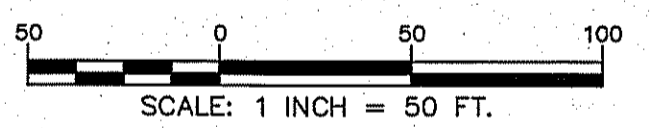
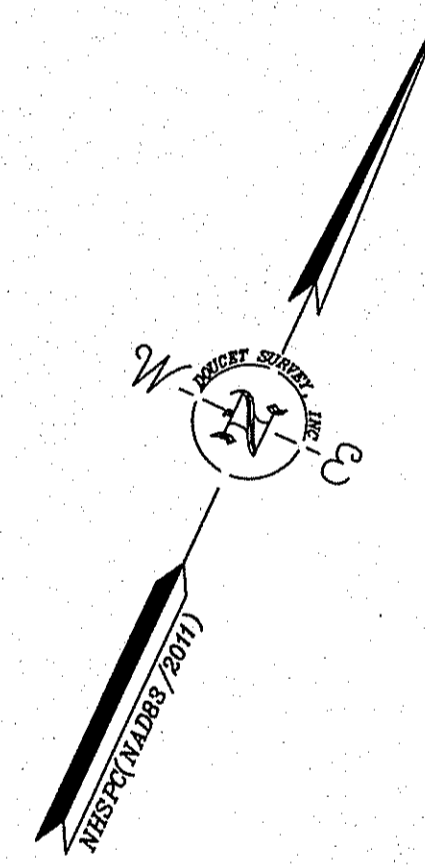
FILE NAME: \P\PROJECTS\173 C&D\173\173.DWG PLOTTED: Friday, July 12, 2019 - 10:28am



- SEE SHEET 1 FOR NOTES 1-11.
12. THE FOLLOWING LOTS ARE EITHER SUBJECT TO OR IN BENEFIT OF, BUT NOT LIMITED TO, THE FOLLOWING EASEMENTS/RIGHTS OF RECORD:
- TAX MAP 172, LOT 1
 - A. SUBJECT TO A 50' WIDE RIGHT OF WAY FOR THE BENEFIT OF TAX MAP 172, LOT 2 SEE R.C.R.D. BOOK 2411, PAGE 1484 AND R.C.R.D. PLAN D-10722 (TO BE ABANDONED).
 - B. EXCEPTING AN 8" WATER PIPE LOCATED UNDER SUBJECT PARCEL, SEE R.C.R.D. BOOK 2783, PAGE 560, LOCATION OF SUBJECT WATER PIPE UNKNOWN.
 - C. SUBJECT TO A 10' WIDE ELECTRIC EASEMENT, SEE R.C.R.D. BOOK 1257, PAGE 324 AND R.C.R.D. PLAN D-19110.
 - D. SUBJECT TO A WATER LINE EASEMENT, SEE R.C.R.D. BOOK 950, PAGE 174, LOCATION OF SUBJECT WATERLINE UNKNOWN.
 - E. SUBJECT TO AN ELECTRIC EASEMENT, SEE R.C.R.D. BOOK 1374, PAGE 97, LOCATION OF SUBJECT EASEMENT UNKNOWN.
 - F. SUBJECT TO AN ELECTRIC EASEMENT, SEE R.C.R.D. BOOK 2364, PAGE 397, LOCATION OF SUBJECT EASEMENT UNKNOWN.
 - G. SUBJECT TO A 15' DRIVEWAY EASEMENT, SEE R.C.R.D. BOOK 2216, PAGE 18, LOCATION OF SUBJECT EASEMENT UNKNOWN.
 - TAX MAP 173, LOT 2
 - H. SUBJECT TO A 70' WIDE ACCESS EASEMENT IN FAVOR OF TAX MAP 173, LOT 10, SEE R.C.R.D. BOOK 3224, PAGE 87 AND R.C.R.D. PLAN D-24912 (TO BE ABANDONED).
 - I. SUBJECT TO A DRAINAGE EASEMENT TO THE UNITED STATES OF AMERICA, SEE R.C.R.D. BOOK 1423, PAGE 240 AND PLAN D-19110.
 - J. SUBJECT TO A 10' WIDE ELECTRIC EASEMENT, SEE R.C.R.D. BOOK 1257, PAGE 324. SEE ALSO R.C.R.D. PLAN D-19110.
 - K. SUBJECT TO EASEMENTS FOR PASSAGE AND PIPE LINES, SEE R.C.R.D. BOOK 2205, PAGE 646 AND PLAN D-24912. LOCATION OF SUBJECT EASEMENTS UNKNOWN.
 - L. SUBJECT TO A SEWER AND WATER EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH, SEE R.C.R.D. BOOK 1476, PAGE 252 (TO BE ABANDONED).
 - TAX MAP 165, LOT 2
 - M. SUBJECT TO A SEWER EASEMENT, SEE R.C.R.D. BOOK 1659, PAGE 273 (TO BE ABANDONED).
 - N. DRIVEWAY RIGHTS, SEE R.C.R.D. BOOK 1659, PAGE 273, LOCATION AND STATUS UNKNOWN.
 - O. ADDITIONAL COVENANTS AND EXCEPTIONS, SEE R.C.R.D. BOOK 1659, PAGE 273.
 - TAX MAP 173, LOT 10 (NOT SUBJECT PARCEL)
 - P. SUBJECT TO A SEWER EASEMENT, SEE R.C.R.D. BOOK 1270, PAGE 418.
 - Q. SUBJECT TO A WATER EASEMENT, SEE R.C.R.D. BOOK 1448, PAGE 465.

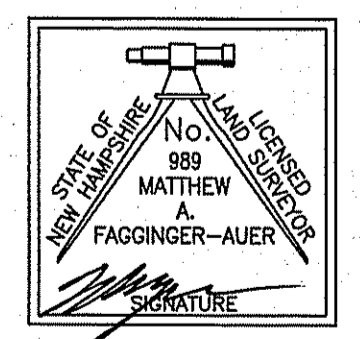
13. PROPOSED EASEMENTS (LOCATION SHOWN ON PLAN, METES AND BOUNDS DESCRIPTION TO BE ADDED ONCE EASEMENT LOCATIONS ARE APPROVED):
- A. PROPOSED 20' WIDE ELECTRIC EASEMENT IN FAVOR OF EVERSOURCE AND TAX MAP 173, LOT 10.
 - B. PROPOSED 20' WIDE SEWER EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH.
 - C. PROPOSED 20' WIDE WATER SERVICE EASEMENT IN FAVOR OF TAX MAP 172, LOT 2.
 - D. PROPOSED SIGN EASEMENT IN FAVOR OF CATE STREET DEVELOPMENT LLC.

- ADDITIONAL PROPOSED EASEMENTS:
- PARCEL "A" (RESIDENTIAL LOT)
- E. BLANKET UTILITY EASEMENT IN FAVOR OF EVERSOURCE.
 - F. BLANKET WATER SERVICE EASEMENT IN FAVOR OF TAX MAP 172, LOT 2.
 - G. BLANKET ACCESS EASEMENT IN FAVOR OF TAX MAP 172, LOT 2 AND PROPOSED PARCELS "B" & "C".
 - H. BLANKET WATER EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH TO MAINTAIN VALVES AND HYDRANTS.
 - I. 5' WIDE SNOW STORAGE EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH ALONG THE SOUTHERN LINE OF THE PROPOSED RIGHT OF WAY.
 - J. BLANKET ACCESS EASEMENT FOR EMERGENCY SERVICES.
- PARCEL "B" (COMMERCIAL LOT)
- K. BLANKET ACCESS EASEMENT IN FAVOR OF TAX MAP 172, LOT 2 AND PROPOSED PARCELS "A" & "C".
 - L. BLANKET WATER EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH TO MAINTAIN VALVES AND HYDRANTS.
 - M. BLANKET ACCESS EASEMENT FOR EMERGENCY SERVICES.
- PARCEL "C" (TOWN HOUSE LOT)
- N. BLANKET UTILITY EASEMENT IN FAVOR OF EVERSOURCE.
 - O. BLANKET ACCESS EASEMENT IN FAVOR OF TAX MAP 172, LOT 2 AND PROPOSED PARCELS "A" & "B".
 - P. BLANKET WATER EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH TO MAINTAIN VALVES AND HYDRANTS.
 - Q. 5' WIDE SNOW STORAGE EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH ALONG THE SOUTHERN LINE OF THE PROPOSED RIGHT OF WAY.
 - R. BLANKET ACCESS EASEMENT FOR EMERGENCY SERVICES.
 - S. SIGHT TRIANGLE EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH AT DRIVEWAY LOCATIONS AND ALONG FRONTAGE OF LOT, INTENDING TO LIMIT LANDSCAPING AND STRUCTURAL FEATURES TO LOW HEIGHT SHRUBS AND GROUND COVER. (EASEMENT AREA LINE WORK TO BE ADDED AS ALIGNMENT OF ROAD IS FINALIZED).



EASEMENT PLAN
 FOR
CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE

- LEGEND**
- LOT LINE
 - - - PROPOSED LOT LINE
 - - - APPARENT RIGHT OF WAY LINE
 - - - LOT LINE TO BE ABANDONED
 - - - APPROXIMATE ADJUTTER LOT LINE
 - - - EXISTING EASEMENT LINE (SEE NOTE #12)
 - - - PROPOSED EASEMENT LINE (SEE NOTE #13)
 - EDGE OF WETLAND
 - BOUND FOUND
 - R.R.S.F. RAILROAD SPIKE FOUND
 - IRON PIPE/ROD FOUND
 - 4"x4" GRANITE BOUND TO BE SET
 - 5/8" REBAR W/D CAP TO BE SET
 - BND. FND. BOUND FOUND
 - I.P.F. IRON PIPE FOUND
 - CONC. CONCRETE
 - D.H. DRILL HOLE



I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

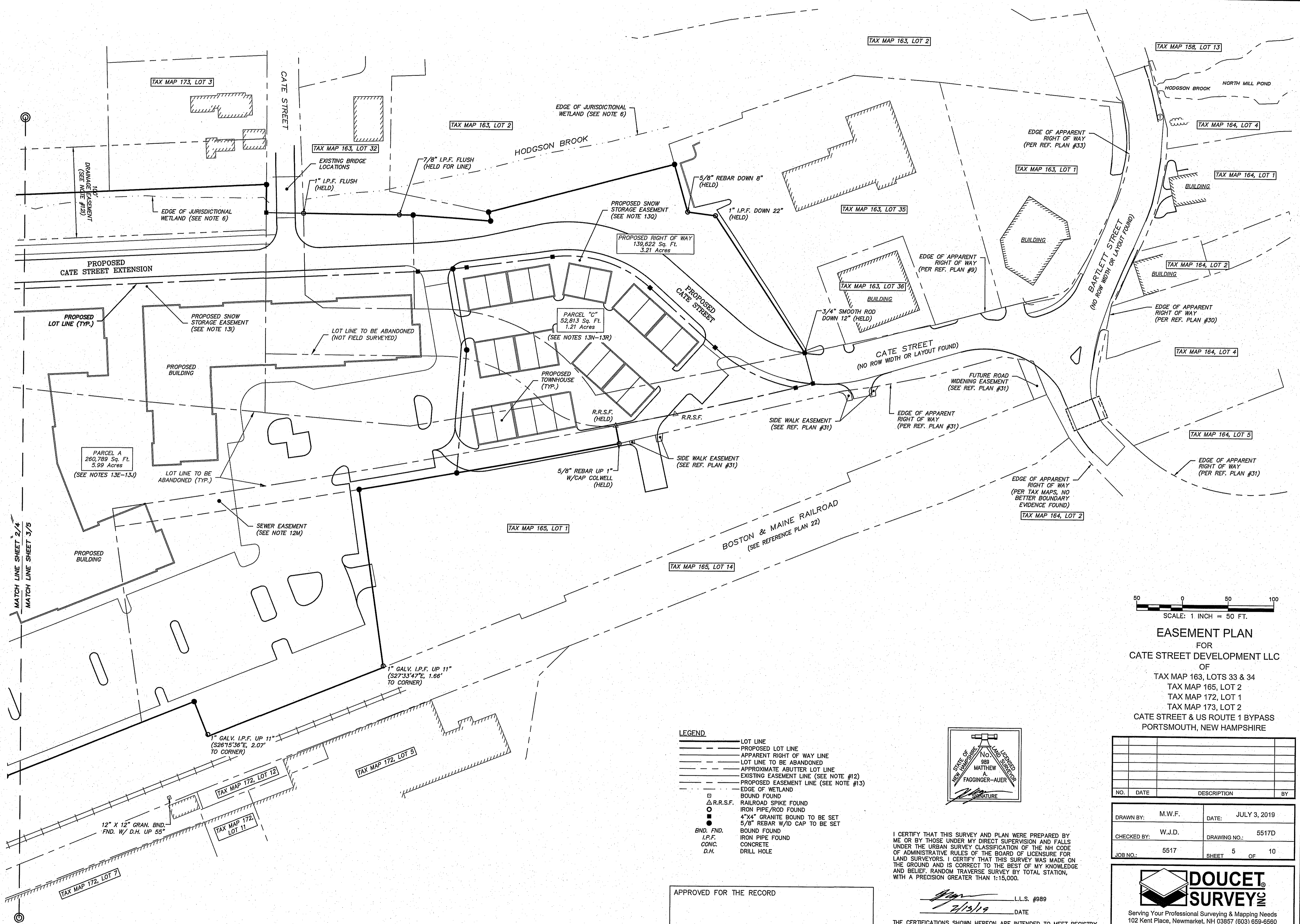
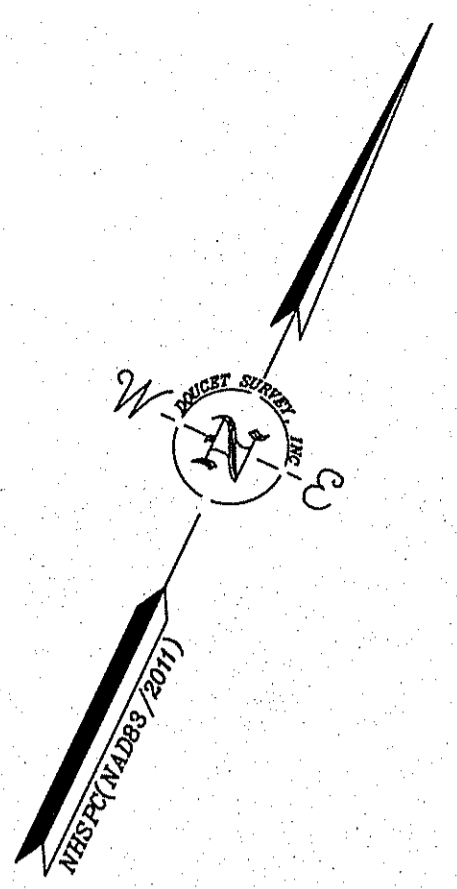
Matthew A. Fagginger-Auer
 2/19/19 L.L.S. #989
 DATE

APPROVED FOR THE RECORD
 CHAIRMAN PORTSMOUTH PLANNING BOARD DATE

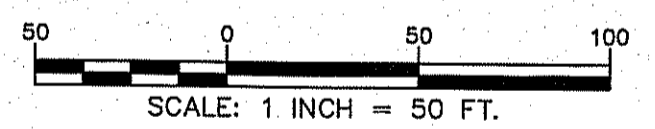
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	4 OF 10

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<http://www.doucetsurvey.com>



MATCH LINE SHEET 2/4
MATCH LINE SHEET 3/5



EASEMENT PLAN
FOR
CATE STREET DEVELOPMENT LLC
OF
TAX MAP 163, LOTS 33 & 34
TAX MAP 165, LOT 2
TAX MAP 172, LOT 1
TAX MAP 173, LOT 2
CATE STREET & US ROUTE 1 BYPASS
PORTSMOUTH, NEW HAMPSHIRE

- LEGEND**
- LOT LINE
 - PROPOSED LOT LINE
 - - - APPARENT RIGHT OF WAY LINE
 - - - LOT LINE TO BE ABANDONED
 - - - APPROXIMATE ABUTTER LOT LINE
 - - - EXISTING EASEMENT LINE (SEE NOTE #12)
 - - - PROPOSED EASEMENT LINE (SEE NOTE #13)
 - - - EDGE OF WETLAND
 - BOUND FOUND
 - △ R.R.S.F. RAILROAD SPIKE FOUND
 - IRON PIPE/ROD FOUND
 - 4"x4" GRANITE BOUND TO BE SET
 - 5/8" REBAR W/D CAP TO BE SET
 - BOUND FOUND
 - IRON PIPE FOUND
 - CONC. CONCRETE
 - D.H. DRILL HOLE

STATE OF NEW HAMPSHIRE
No. 989
MATTHEW A. FAGGINGER-AUER
LAND SURVEYOR
SIGNATURE

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

APPROVED FOR THE RECORD
CHAIRMAN PORTSMOUTH PLANNING BOARD DATE

Matthew A. Fagginger-Auer
L.L.S. #989
DATE

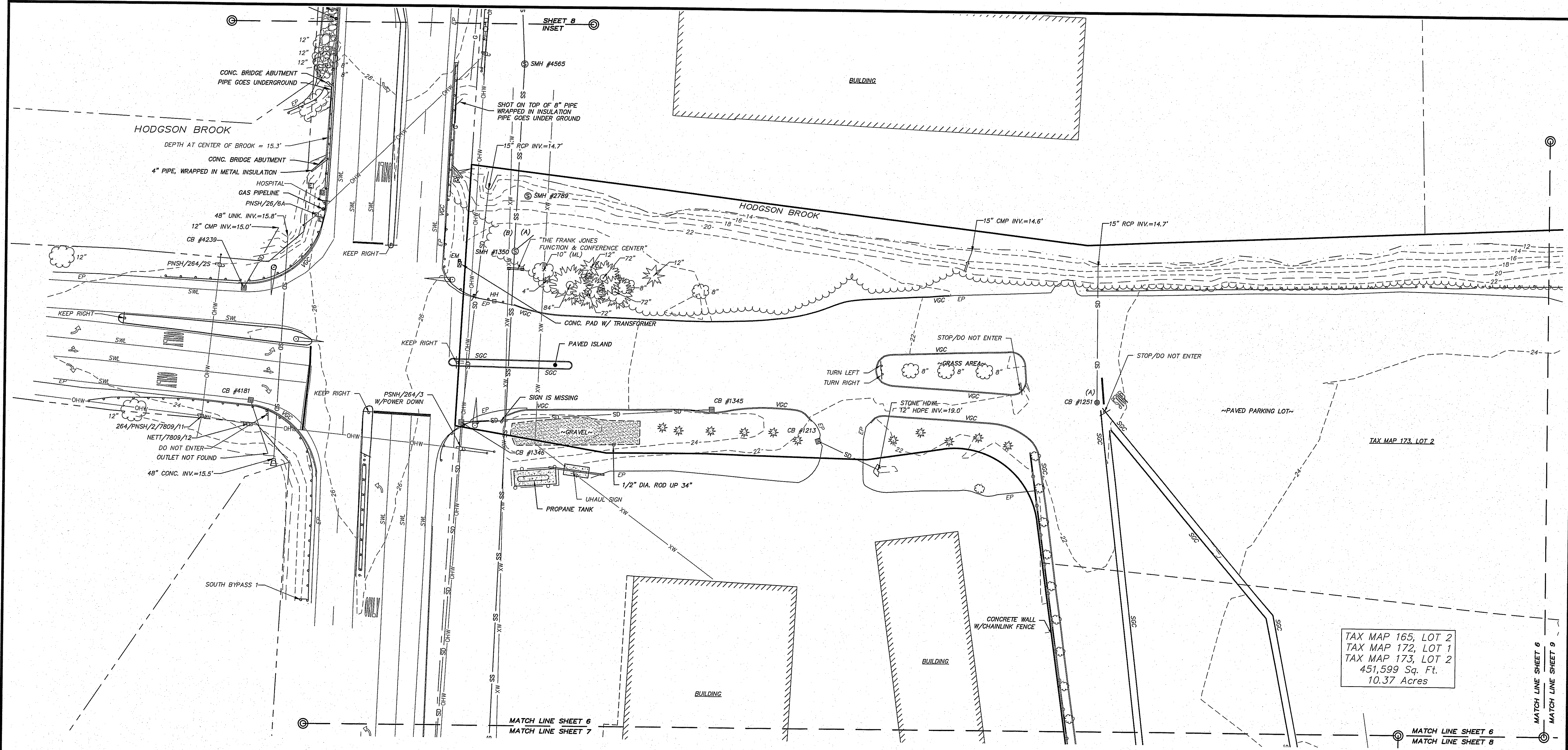
THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

NO.	DATE	DESCRIPTION	BY

DRAWN BY: M.W.F.	DATE: JULY 3, 2019
CHECKED BY: W.J.D.	DRAWING NO.: 5517D
JOB NO.: 5517	SHEET 5 OF 10

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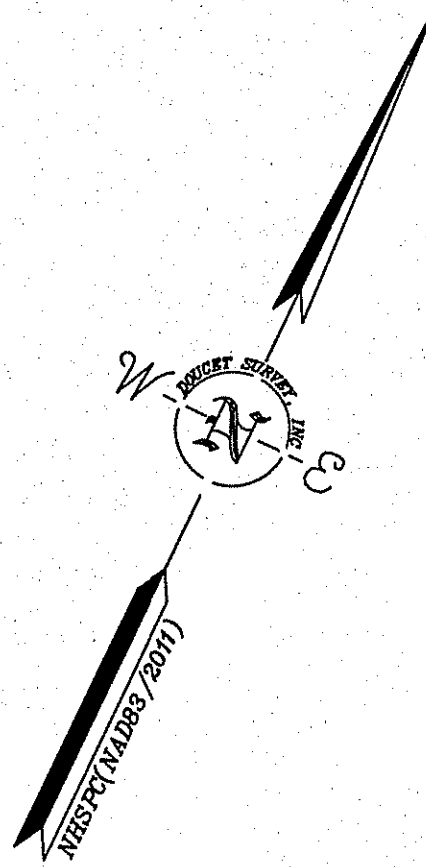
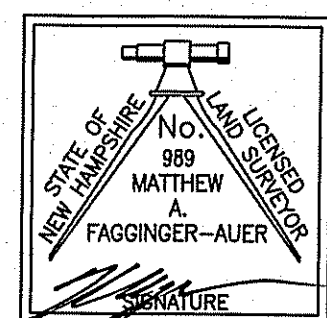


TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 451,599 Sq. Ft.
 10.37 Acres

- NOTES:
1. REFERENCE: TAX MAP 163, LOT 33
 TAX MAP 163, LOT 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2

OWNER OF RECORD
 CATE STREET DEVELOPMENT, LLC
 11 ELKINS STREET, SUITE 420
 BOSTON, MA 02127
 R.C.R.D. BOOK 5959, PAGE 109

2. FIELD SURVEY PERFORMED BY P.J.S. & J.C.M. DURING NOVEMBER 2016 USING A TRIMBLE S6 TOTAL STATION, A TRIMBLE R8 SURVEY GRADE GPS UNIT, A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL, BY L.P.S. & S.N.F. DURING JULY 2018 AND T.M.M. & J.C.M. IN SEPTEMBER & OCTOBER 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS. ADDITIONAL FIELD SURVEY PERFORMED BY M.C. DURING NOVEMBER 2016 AND OCTOBER 2018 USING A LEICA HDS SCANNER.
3. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY MARC JACOBS IN NOVEMBER 2016 AND REVIEWED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING APRIL 2018 IN ACCORDING TO THE US ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, JANUARY 1987 AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2102 AND FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, MAY 2017, NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
4. VERTICAL DATUM IS BASED ON NGVD29 PER DISK V 28 1942 ELEV. 25.59.
5. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE(2800) NADB3(2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VR5 NETWORK.
6. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, INC. WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
7. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVABLE PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
8. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING: THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
9. ALL ELECTRIC, GAS, TEL, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
10. UNDERGROUND UTILITY DATA WAS PROVIDED TO DOUCET SURVEY, INC. BY THE CITY OF PORTSMOUTH GIS DEPARTMENT ON NOVEMBER 15, 2016. THIS DATA IS FOR PLANNING PURPOSES ONLY AND DOUCET SURVEY DOES NOT GUARANTEE THE ACCURACY OR EXISTENCE OF THE DATA PROVIDED. ON-SITE INSPECTION SHOULD BE CONDUCTED PRIOR FINAL DESIGN AND/OR CONSTRUCTION.



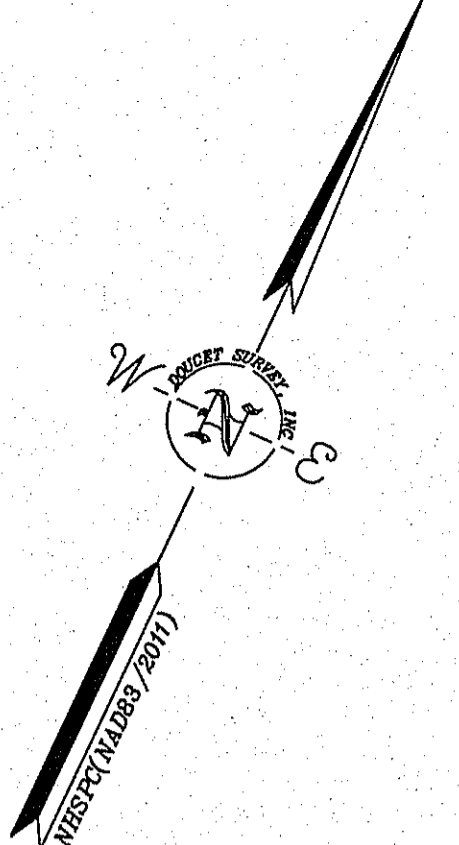
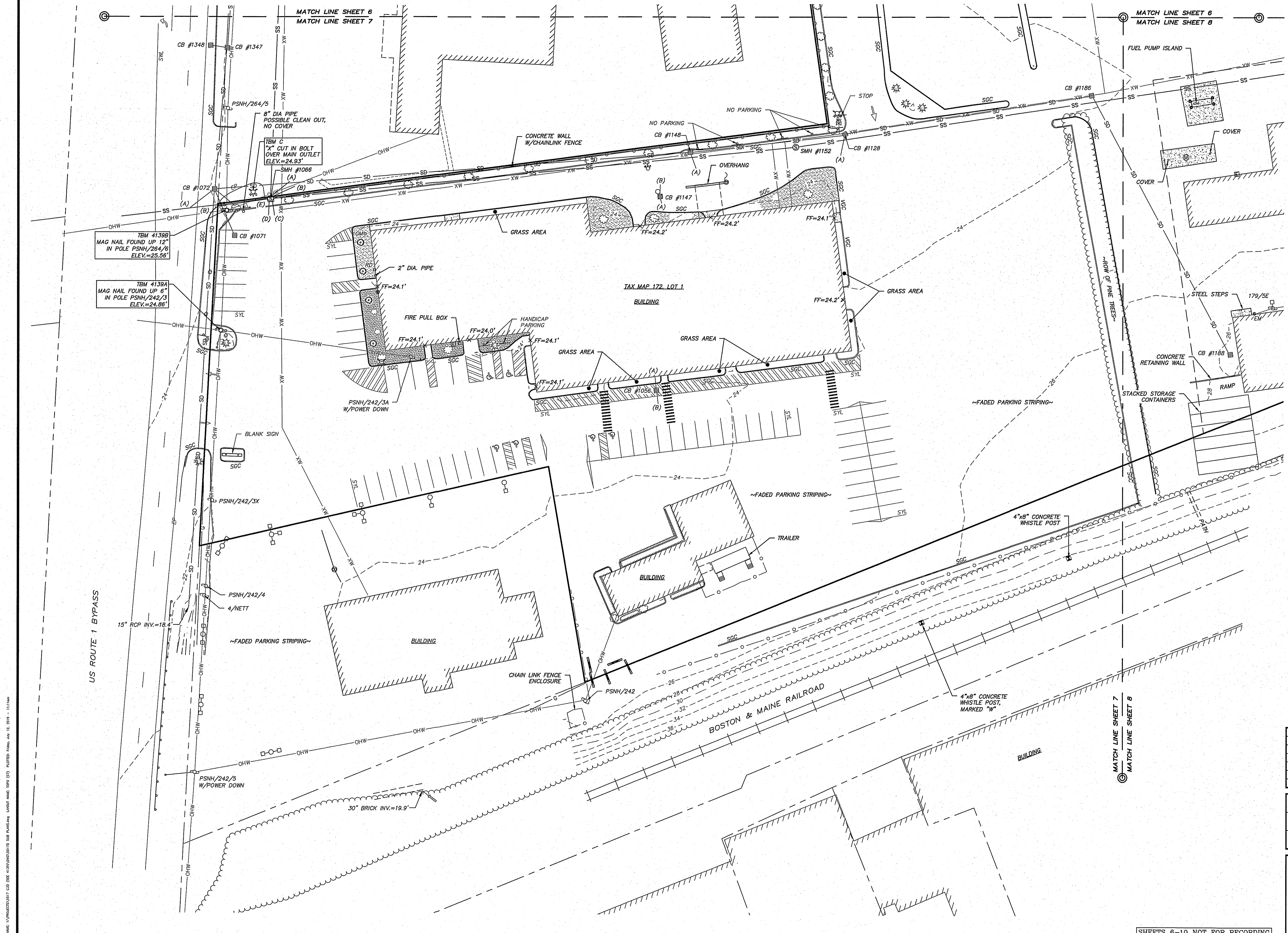
SCALE: 1 INCH = 30 FT.

TOPOGRAPHIC PLAN
 FOR
 CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE
 SHEETS 6-10 NOT FOR RECORDING

NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	6 OF 10

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NEW STATE OF
 REGISTERED PROFESSIONAL SURVEYOR
 No. 885
 MATTHEW A. FAGGINGER-AUER
 SIGNATURE

30 0 30 60
 SCALE: 1 INCH = 30 FT.

TOPOGRAPHIC PLAN
 FOR
CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	7 OF 10


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SHEETS 6-10 NOT FOR RECORDING

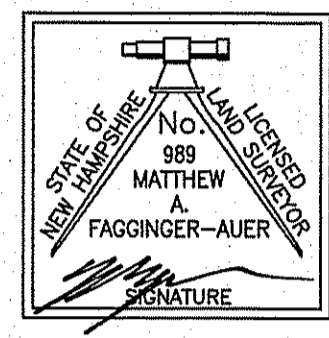
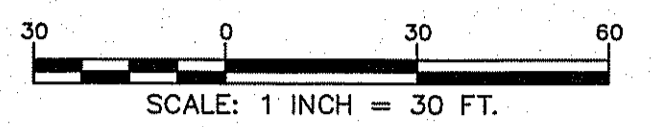
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MATCH LINE SHEET 6
MATCH LINE SHEET 8

MATCH LINE SHEET 9
MATCH LINE SHEET 8

TOPOGRAPHIC PLAN
FOR
CATE STREET DEVELOPMENT LLC
OF
TAX MAP 163, LOTS 33 & 34
TAX MAP 165, LOT 2
TAX MAP 172, LOT 1
TAX MAP 173, LOT 2
CATE STREET & US ROUTE 1 BYPASS
PORTSMOUTH, NEW HAMPSHIRE

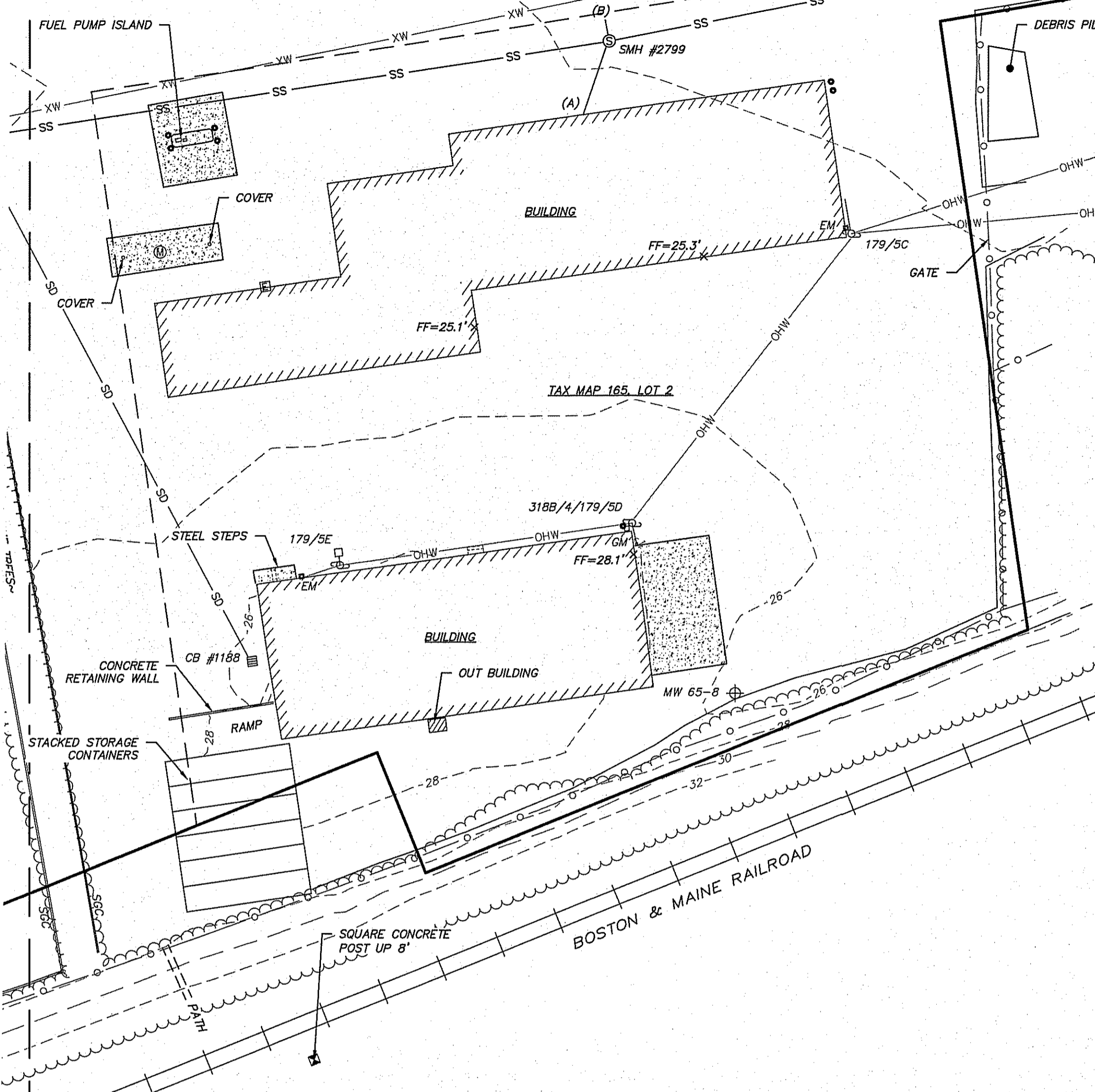
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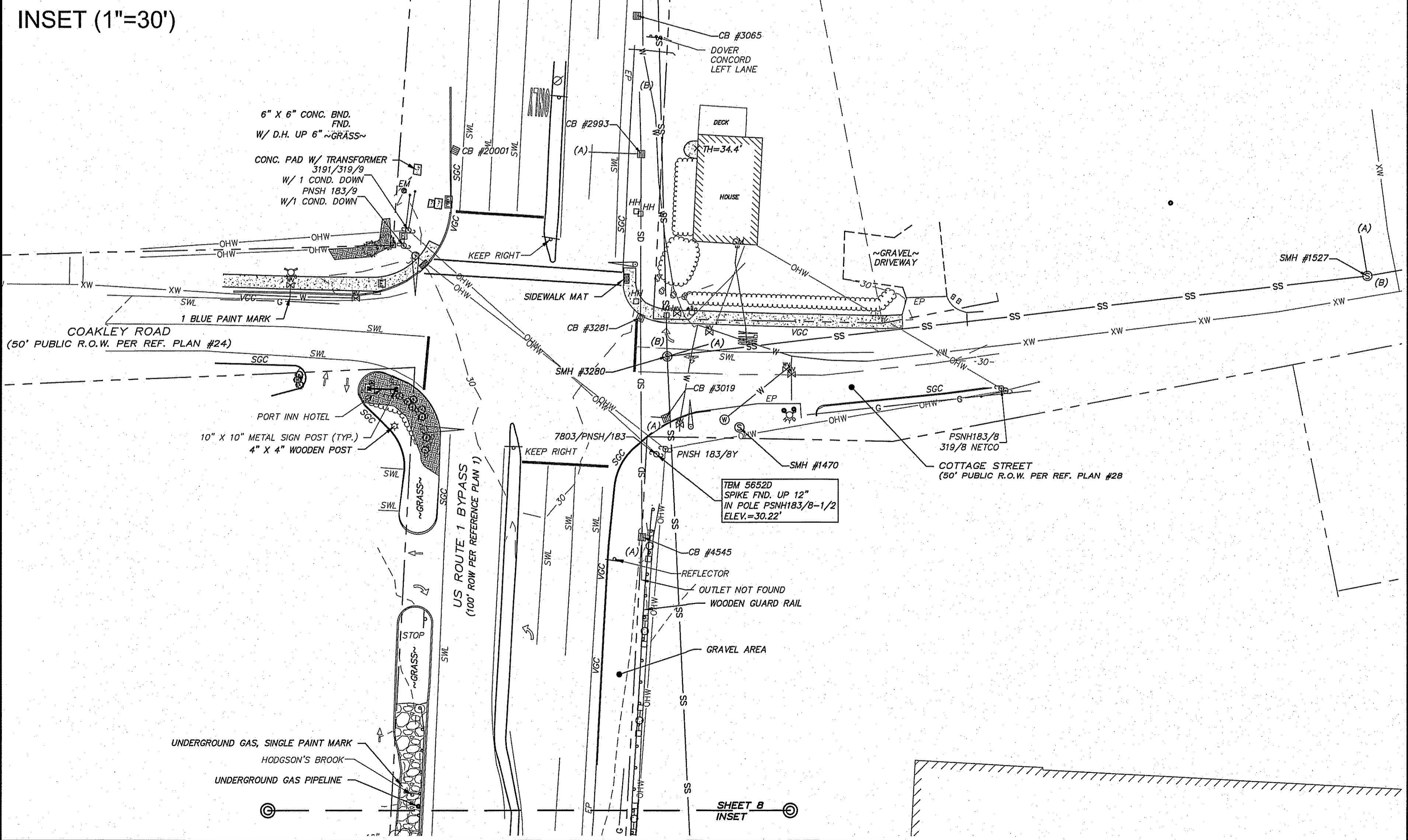
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	8 OF 10

SHEETS 6-10 NOT FOR RECORDING



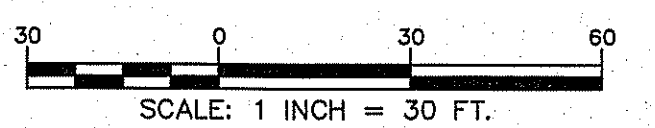
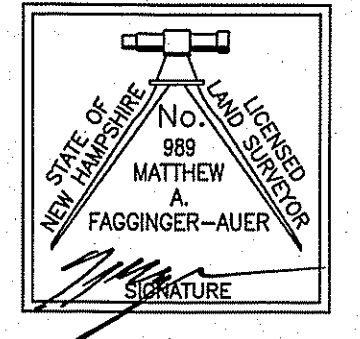
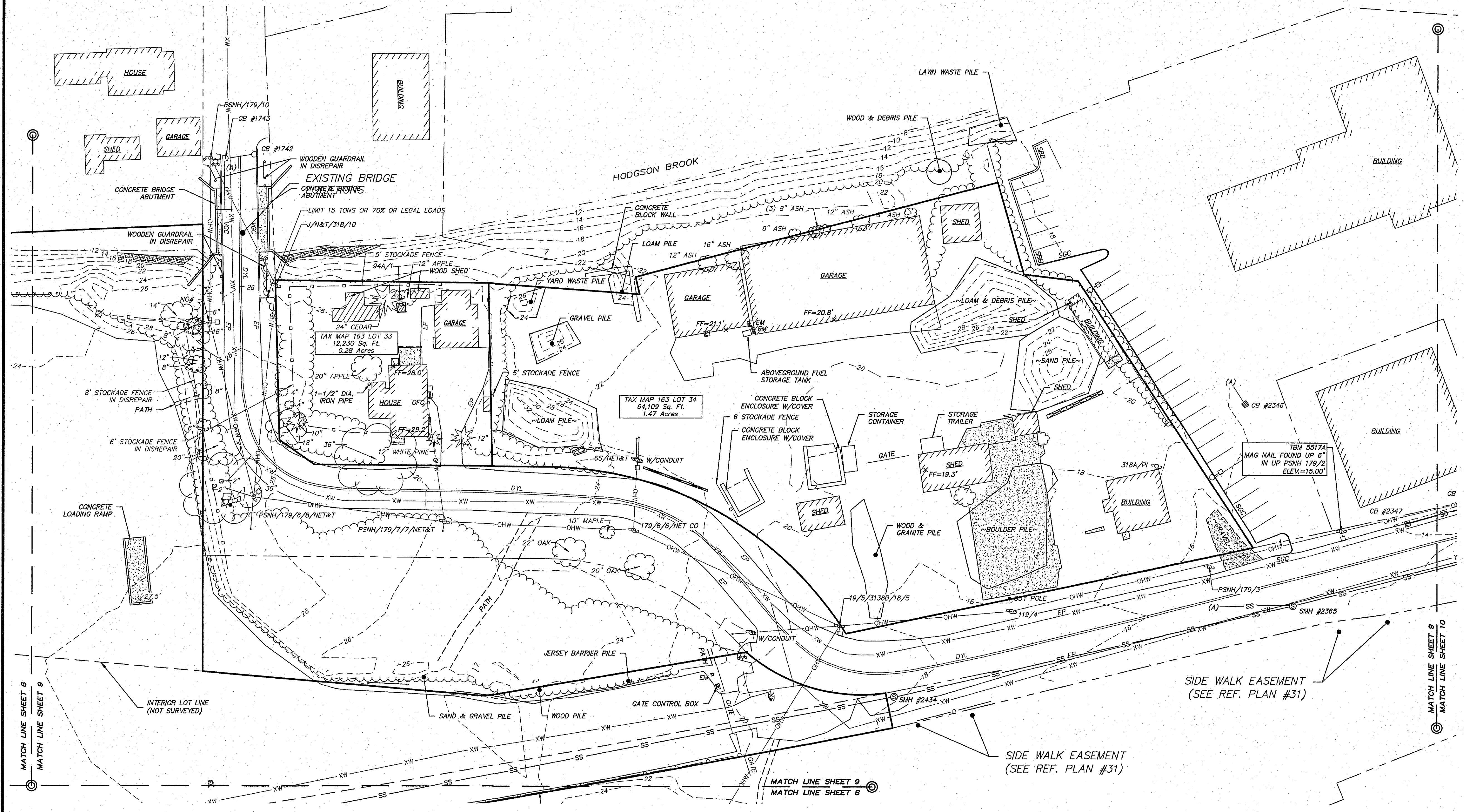
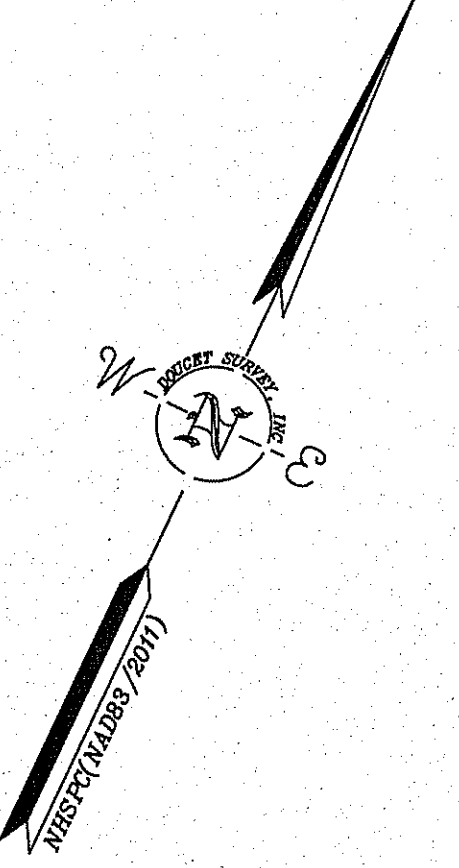
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MATCH LINE SHEET 7
MATCH LINE SHEET 8

SHEET 8
INSET

FILE NAME: V:\PROJECTS\5517_CSD (SEE 1337)\DWG\5517_08B_Plan04.dwg PLOTTED: Friday, July 12, 2019 - 11:15am



TOPOGRAPHIC PLAN
 FOR
CATE STREET DEVELOPMENT LLC
 OF
 TAX MAP 163, LOTS 33 & 34
 TAX MAP 165, LOT 2
 TAX MAP 172, LOT 1
 TAX MAP 173, LOT 2
 CATE STREET & US ROUTE 1 BYPASS
 PORTSMOUTH, NEW HAMPSHIRE

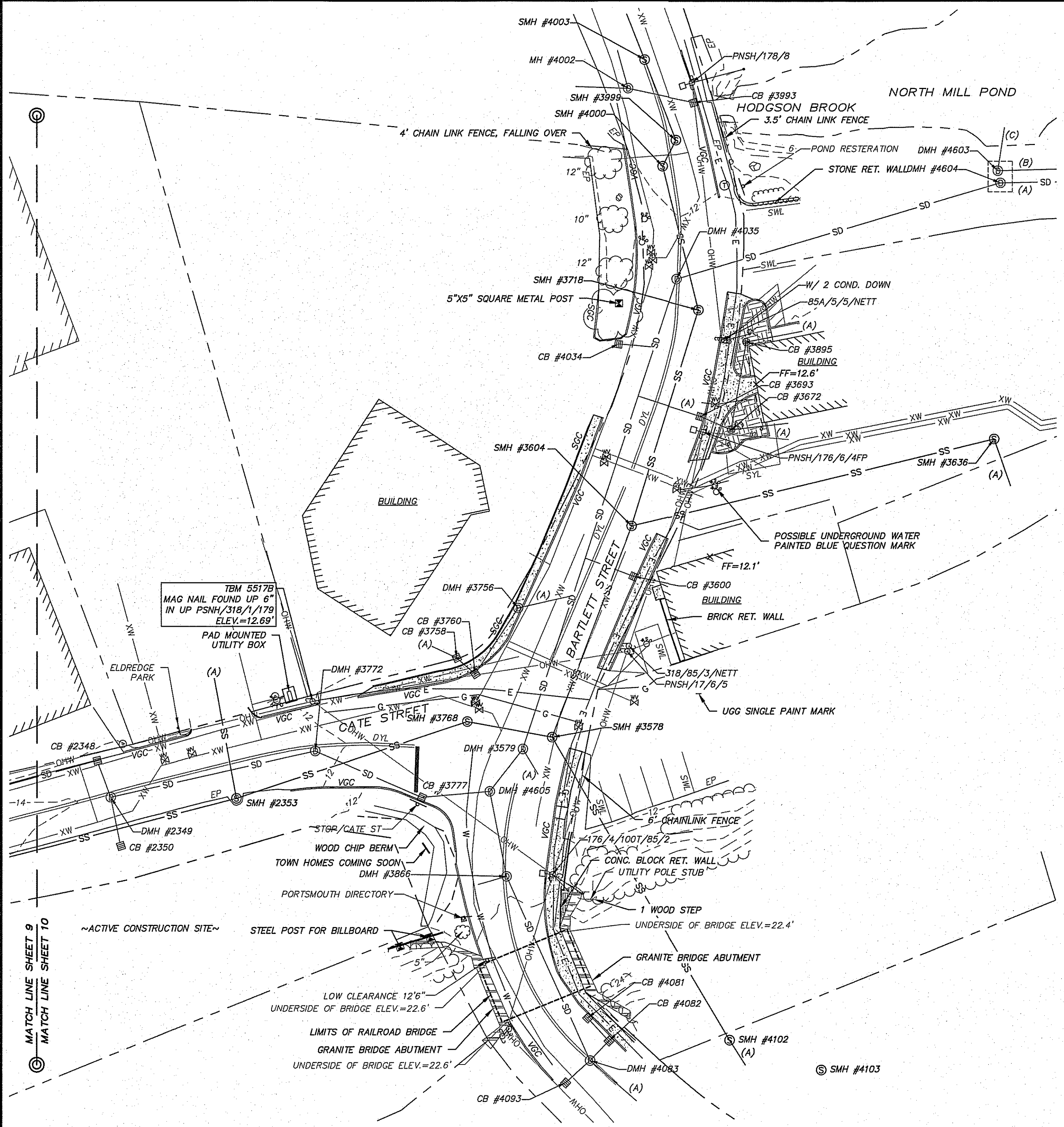
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	JULY 3, 2019
CHECKED BY:	W.J.D.	DRAWING NO.:	5517D
JOB NO.:	5517	SHEET	9 OF 10

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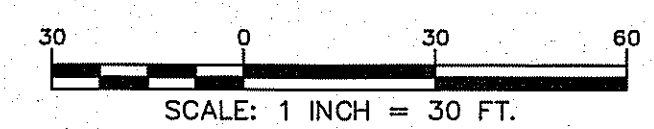
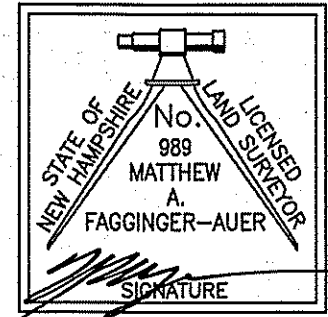
SHEETS 6-10 NOT FOR RECORDING

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 LAYOUT NAME: 19070_031



DRAINAGE STRUCTURES			
CB #1056 RIM ELEV.=23.3' (A) 4" UNKN. INV.=17.6' (B) 4" UNKN. INV.=17.7'	CB #1348 RIM ELEV.=24.6' (1347) 12" RCP INV.=19.2'	CB #3600 RIM ELEV.=11.1' 12" PVC INV.=7.5'	CB #4034 RIM ELEV.=10.8' 12" PVC INV.=7.5'
CB #1071 RIM ELEV.=22.7' (1072) 12" RCP INV.=17.3'	CB #1742 RIM ELEV.=24.7' (1743) 12" RCP INV.=19.7'	CB #3672 RIM ELEV.=11.9' (3693) 4" PVC INV.=8.2' (3895) 4" PVC INV.=8.7' (A) 4" PVC INV.=8.3'	DMH #4035 RIM ELEV.=11.7' (NO VISIBLE PIPES) SUMP=1.3' WATER LEVEL=1.8'
CB #1072 RIM ELEV.=23.7' (A) 6" CMP INV.=17.6' (1071) 12" RCP INV.=17.5' (1148) 12" CMP INV.=17.5' (1347) 15" RCP INV.=17.1' (B) 15" RCP INV.=17.0'	CB #1743 RIM ELEV.=24.7' (1742) 12" RCP INV.=19.5'	CB #3693 RIM ELEV.=11.0' (3672) 4" PVC INV.=8.2' (A) 12" PVC INV.=7.9'	CB #4081 RIM ELEV.=8.7' (4082) 12" HDPE INV.=5.8'
CB #1128 RIM ELEV.=22.7' (A) 6" PVC INV.=19.4' (1186) 12" CMP INV.=18.9' (1148) 12" CMP INV.=18.8'	CB #2346 RIM ELEV.=15.6' (A) 12" RCP INV.=11.3'	DMH #3756 RIM ELEV.=11.6' (2360) 12" PVC INV.=7.8' (A) 12" PVC INV.=7.8'	CB #4082 RIM ELEV.=8.7' (4081) 12" HDPE INV.=5.7' (4083) 12" HDPE INV.=5.9'
CB #1147 RIM ELEV.=22.2' (A) 6" PVC INV.=18.7' (B) 12" CMP INV.=18.3'	CB #2347 RIM ELEV.=13.8' (2348) 15" HDPE INV.=9.7'	DMH #3756 RIM ELEV.=11.6' (3760) 12" PVC INV.=7.7' (A) 12" PVC INV.=7.8'	DMH #4083 RIM ELEV.=8.9' (3866) 42" WX24H CMP INV.=5.0' (4083) 12" HDPE INV.=5.7' (4093) 12" HDPE INV.=5.6' (A) 42" WX24H CMP INV.=5.0'
CB #1148 RIM ELEV.=22.4' (A) 6" PVC INV.=18.7' (1128) 12" CMP INV.=18.1' (1148) 12" CMP INV.=18.2'	CB #2348 RIM ELEV.=13.6' (2347) 15" HDPE INV.=9.8' (2349) 15" HDPE INV.=9.8'	CB #3758 RIM ELEV.=10.9' (3760) 12" PVC INV.=8.0' (A) 8" PVC INV.=7.9'	CB #4093 RIM ELEV.=9.0' (4083) 12" HDPE INV.=5.9'
CB #1186 RIM ELEV.=23.5' (1188) 12" CMP (NOT VISIBLE) (1128) 12" CMP INV.=20.0'	CB #2349 RIM ELEV.=13.8' (2348) 15" HDPE INV.=9.1' (2350) 15" HDPE INV.=10.3'	CB #3760 RIM ELEV.=10.7' (3756) 12" PVC INV.=8.0' (3758) 12" PVC INV.=8.0'	CB #4181 RIM ELEV.=24.7' 12" CMP INV.=19.7'
CB #1188 RIM ELEV.=25.7' (1186) 8" PVC INV.=22.3'	CB #2350 RIM ELEV.=12.2' (1128) 12" CMP INV.=20.0' (FULL OF SILT & DEBRIS)	DMH #3772 RIM ELEV.=12.2' (2349) 15" HDPE INV.=8.7' (3777) 15" HDPE INV.=8.6'	CB #4545 RIM ELEV.=27.8' (3281) 15" RCP INV.=22.0' (A) 18" RCP INV.=21.3'
CB #1213 RIM ELEV.=20.3' (HDWL) 12" HDPE INV.=17.6'	CB #2993 RIM ELEV.=30.2 (A) 15" RCP INV.=26.2' (B) 12" UNKN. INV.=26.1' (3281) 15" RCP INV.=26.0'	CB #3777 RIM ELEV.=10.7' (3772) 15" HDPE INV.=7.7' (4605) 15" HDPE INV.=7.6'	DMH #4603 & 4604 RIM ELEV.=10.3'
CB #1251 RIM ELEV.=20.9' (A) 18" CMP INV.=16.5'	CB #3019 RIM ELEV.=28.8' (A) 6" PVC INV.=25.4' (A) 18" CMP INV.=16.5'	DMH #3866 RIM ELEV.=10.2' (4083) 42" WX24H CMP INV.=5.3' (4605) 24" RCP INV.=5.4' (A) 8" CI INV.=8.0'	DMH #4605 RIM ELEV.=11.0' (3579) 24" RCP INV.=4.4' (3672) 4" PVC INV.=9.7' (3777) 15" CMP INV.=7.5' (3866) 24" RCP INV.=4.6'
CB #1345 RIM ELEV.=23.3' (1346) 12" RCP INV.=19.1'	CB #3065 RIM ELEV.=31.5' WATER ELEV.=27.4' (NO PIPES VISIBLE)	CB #3895 RIM ELEV.=11.9' (3672) 4" PVC INV.=9.7' (A) 4" PVC INV.=9.9'	CB #4002 RIM ELEV.=12.9' (BOLTED SHUT)
CB #1346 RIM ELEV.=25' (1345) 12" RCP INV.=17.4' (1347) 15" RCP INV.=15.9' (A) 15" RCP INV.=15.7'	CB #3281 RIM ELEV.=29.8' (2993) 15" RCP INV.=24.3' (4545) 15" RCP INV.=24.2'	CB #3993 RIM ELEV.=12.6' (NO VISIBLE PIPES) APPEARS TO OPEN TO BROOK SUMP=1.5' WATER LEVEL=1.8'	
CB #1347 RIM ELEV.=23.9' (1348) 12" RCP INV.=18.8' (1072) 15" RCP INV.=15.9' (1346) 15" RCP INV.=15.8'	DMH #3579 RIM ELEV.=11.2' (4035) 36" BRICK TROUGH INV.=2.0' (4605) 24" RCP INV.=4.2' (A) UNKN. INV.=2.0'	CB #4002 RIM ELEV.=12.9' (BOLTED SHUT)	

SEWER STRUCTURES		
SMH #1056 RIM ELEV.=23.2' (A) 4" PVC INV.=18.5' (D) UNKN. INV.=12.3' (1152) 10" UNKN. INV.=11.8' (C) 4" PVC INV.=16.0' (D) 4" PVC INV.=16.0' (1350) UNKN. INV.=11.5' (E) UNKN. INV.=11.6'	SMH #2434 RIM ELEV.=18.2' (2795) 10" UNKN. INV.=9.7' (2365) 12" UNKN. INV.=9.7' (SMH) INV.=9.9' NO PIPES VISIBLE	SMH #3788 RIM ELEV.=11.4' (2353) 24" PVC INV.=6.0' (3578) 24" PVC INV.=5.9' (SMH) INV.=9.9' (4003) 12" PVC INV.=5.8' (SMH) INV.=9.9' (4003) 12" PVC INV.=5.8'
SMH #1152 RIM ELEV.=22.6' (1056) 10" UNKN. INV.=11.3' (2795) 10" UNKN. INV.=11.2'	SMH #2789 RIM ELEV.=23.8' (A) 4" DI INV.=21.3' (B) 8" UNKN. INV.=12.1' (1152) 10" UNKN. INV.=10.7' (2434) 10" UNKN. INV.=10.6'	SMH #4000 RIM ELEV.=12.3' (3718) 10" PVC INV.=5.8' (3999) 10" PVC INV.=5.8' (SMH) INV.=9.9' (3999) 12" PVC INV.=6.5' (A) 10" CI INV.=6.6' (SMH) INV.=9.9' (3999) 12" PVC INV.=6.5'
SMH #1350 RIM ELEV.=25.5' (A) 8" CLAY INV.=14.9' (4565) UNKN. INV.=14.7' (1068) UNKN. INV.=14.4'	SMH #3280 RIM ELEV.=28.8' (1627) 8" CLAY DROP INLET INV.=21.1' (4565) UNKN. INV.=16.4'	SMH #4003 RIM ELEV.=13.3' (3999) 12" PVC INV.=6.5' (A) 10" CI INV.=6.6' (SMH) INV.=9.9' (3999) 12" PVC INV.=6.5'
SMH #1470 RIM ELEV.=29.4' FULL OF DEBRIS	SMH #1102 (A) 4" CI INV.=23.3' (B) UNKN. INV.=16.5'	SMH #4103 RIM ELEV.=12.3' (3578) 30" PVC INV.=3.7' (A) 30" PVC INV.=3.6'
SMH #1527 RIM ELEV.=31.6' (3280) 8" CLAY INV.=24.8' (A) 8" CLAY INV.=25.3' (B) 8" CLAY INV.=24.7'	SMH #3578 RIM ELEV.=10.9' (3604) 36" PVC INV.=3.0' (3768) 24" PVC INV.=5.8' (4102) 30" PVC INV.=3.1'	SMH #4103 RIM ELEV.=10.9' (NO VISIBLE PIPES, POSSIBLE ELECTRIC MANHOLE)
SMH #2353 RIM ELEV.=12.7' (2365) 24" PVC INV.=6.5' (3768) 24" PVC INV.=6.5' (A) 6" PVC INV.=7.2'	SMH #3604 RIM ELEV.=11.3' (3578) 36" PVC INV.=2.5' (3638) 36" PVC INV.=2.5' (3718) 10" PVC INV.=4.7' (A) 6" PVC INV.=7.2'	SMH #4555 RIM ELEV.=26.4' PIPES SUBMERGED WATER LEVEL=16.5' SUMP=15.4' (SMH) INV.=9.9' (3999) 12" PVC INV.=6.5'
SMH #2365 RIM ELEV.=14.4' (A) 10" CI INV.=9.3' (2434) 10" METAL INV.=9.2' (2353) 24" METAL INV.=9.2'	SMH #3638 RIM ELEV.=10.3' (3604) 36" PVC INV.=2.3' (A) 36" PVC INV.=2.2'	SMH #4607 RIM ELEV.=33.2' (A) 6" PVC INV.=17.9' (B) 8" PVC INV.=17.7'
SMH #3718 RIM ELEV.=11.5' (3604) 10" PVC INV.=5.3' (4000) 10" PVC INV.=5.5'	SMH #3718 RIM ELEV.=11.5' (3604) 10" PVC INV.=5.3' (4000) 10" PVC INV.=5.5'	



TOPOGRAPHIC PLAN
FOR
CATE STREET DEVELOPMENT LLC
OF
TAX MAP 163, LOTS 33 & 34
TAX MAP 165, LOT 2
TAX MAP 172, LOT 1
TAX MAP 173, LOT 2
CATE STREET & US ROUTE 1 BYPASS
PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY: M.W.F.	DATE: JULY 3, 2019
CHECKED BY: W.J.D.	DRAWING NO.: 5517D
JOB NO.: 5517	SHEET 10 OF 10

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LEGEND

—	APPROXIMATE LOT LINE	+	MONITORING WELL
---	INTERIOR LOT LINE	+	DRAINAGE FLOW DIRECTION ARROW
- - -	APPROXIMATE ABUTTER LOT LINE	+	CONCRETE
- - -	EASEMENT LINE	+	CRUSHED STONE
□	STOCKADE FENCE	+	LEDGE OUTCROP
○	CHAIN LINK FENCE	+	ACCESSIBLE PARKING SPACE
—	GUARDRAIL	+	MAST ARM
—	OVERHEAD WIRES	+	JERSEY BARRIER
—	SEWER LINE	+	TYPICAL
—	DRAIN LINE	+	CATCH BASIN
—	GAS LINE	+	FINISHED FLOOR
—	WATER LINE	+	ELECTRIC METER
—	MAJOR CONTOUR LINE	+	EDGE OF PAVEMENT
—	MINOR CONTOUR LINE	+	VERTICAL GRANITE CURB
—	TREE LINE	+	SLOPED BITUMINOUS BERM
—	SHRUB LINE	+	SINGLE WHITE LINE
—	EDGE OF WETLAND	+	SINGLE YELLOW LINE
—	SEWER LINE (SEE NOTE 20)	+	DOUBLE YELLOW LINE
—	DRAIN LINE (SEE NOTE 20)	+	
—	WATER LINE (SEE NOTE 20)	+	
+	UTILITY POLE	+	
+	UTILITY POLE & GUY WIRE	+	
+	UTILITY POLE W/ LIGHT	+	
+	LIGHT POLE	+	
+	SIGN	+	
+	SIGN (TWO POSTS)	+	
+	FENCE POST	+	
+	POST	+	
+	BOLLARD	+	
+	FIRE HYDRANT	+	
+	WATER GATE VALVE	+	
+	SPIGOT	+	
+	GAS GATE VALVE	+	
+	OIL FILL CAP	+	
+	ELECTRIC BOX	+	
+	MANHOLE	+	
+	SEWER MANHOLE	+	
+	HAND HOLE	+	
+	FLAG POLE	+	
+	CONIFEROUS TREE	+	
+	DECIDUOUS TREE	+	

SHEETS 6-10 NOT FOR RECORDING