

CITY OF PORTSMOUTH NEW HAMPSHIRE

SITE REVIEW APPLICATION

Building Permit Application Number _____

Case Number _____

Fee _____

Map 273 Lot 3 Zone GW/GPD Wetlands: Inland N/A Coastal N/A Lot Area ±814,896 SF

Date of Approvals (Indicate if Pending)		
Conservation Commission _____	Conditional Use <u>April 21, 2016</u>	Board of Adjustment _____
Historic District Commission _____	Subdivision _____	Other _____

Street Address 2454 Lafayette RoadDescription of Project including all use(s) Construction of three (3) restaurant buildings and green space and associated site improvements within the existing plaza parking area.Building(s) Footprint 5,000 SF, 1,600 SF & 2,310 SF Gross Floor Area ±Bldg Footprint #of Stories 1# of Dwelling Units 0 Number of Parking Spaces: Existing 848 Proposed 760

Print Information Below			
Property Owner's Name <u>2422 Lafayette Road Associates, LLC c/o Waterstone Retail Development</u>			
Street Address <u>322 Reservoir Street, 2nd Floor</u> City/Town <u>Needham</u> State <u>MA</u> Zip <u>02494</u>			
<u>781.559.3301</u>	<u>617.447.4027</u>	<u>781.559.3307</u>	<u>LChin@Waterstonepg.com</u>
Telephone #	Cell Phone #	Fax #	Email Address

Print Information Below			
Applicant's / Developer's Name <u>Same as owner</u>			
Street Address _____ City/Town _____ State _____ Zip _____			
_____	_____	_____	_____
Telephone #	Cell Phone #	Fax #	Email Address

Print Information Below (Include Additional Contact Information on Next Page)			
Check One: Owner's Attorney <input type="checkbox"/> Applicant's Attorney <input type="checkbox"/> Engineer <input checked="" type="checkbox"/> Surveyor <input type="checkbox"/> Other <input type="checkbox"/> If other, state relationship _____			
Representative's Name <u>Tighe & Bond, Inc. (Patrick Crimmins, P.E.)</u>			
Street Address <u>177 Corporate Drive</u> City/Town <u>Portsmouth</u> State <u>NH</u> Zip _____			
<u>603.433.8818</u>	<u>603.988.8066</u>	<u>N/A</u>	<u>PMCrimmins@TigheBond.comm.com</u>
Telephone #	Cell Phone #	Fax #	Email Address

I hereby apply for Site Review and acknowledge that I will comply with all the ordinances and any stipulations of the Site Review Committee of the City of Portsmouth in the development and construction of this project.

Owner's Signature	See letter of Authorization	
	Print Owner's Name	Date
Applicant's/Developer's Signature	<u>Patrick M. Crimmins</u>	<u>11/19/18</u>
	Print Applicant's/Developer's Name	Date

Print Information Below

Check One: Owner's Attorney Applicant's Attorney Engineer Surveyor Other If other, state relationship _____

Representative's Name _____

Street Address _____ City/Town _____ State _____ Zip _____

Telephone # _____ Cell Phone # _____ Fax # _____ Email Address _____

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Representative's Name _____

Street Address _____ City/Town _____ State _____ Zip _____

Telephone # _____ Cell Phone # _____ Fax # _____ Email Address _____

Print Information Below

Check One: Owner's Attorney Applicant's Attorney Engineer Surveyor Other If other, state relationship _____

Representative's Name _____

Street Address _____ City/Town _____ State _____ Zip _____

Telephone # _____ Cell Phone # _____ Fax # _____ Email Address _____

Attachments

The following materials must be submitted to the Planning Department along with the completed Application Form:

- Site Plan Application Checklist
- Ten (10) stamped and folded copies of the site plan – four (4) full-size (22" x 34") and six (6) reduced (11" x 17")
- Digital copy of any plans and/or exhibits (in PDF format)
- Application Fee
- Any required State or Federal Permits



January 13, 2016

Josh Levy
Manager
2422 Lafayette Road Associates, LLC
322 Reservoir Street
Needham, MA 02494

Re: Letter of Authorization
Southgate Plaza
2454 Lafayette Road
Portsmouth, NH 03801

To Whom It May Concern:

This letter is to authorize Tighe & Bond Engineering Inc. of 177 Corporate Drive, Portsmouth, New Hampshire 03801 to represent and submit on my behalf applications and materials for the proposed Renovation and Expansion of Southgate Plaza, 2422 Lafayette Road, Portsmouth, New Hampshire.

This authorization shall relate to those activities that are required for local, state and federal permitting for the above project.

With Regards,

Josh Levy
Manager

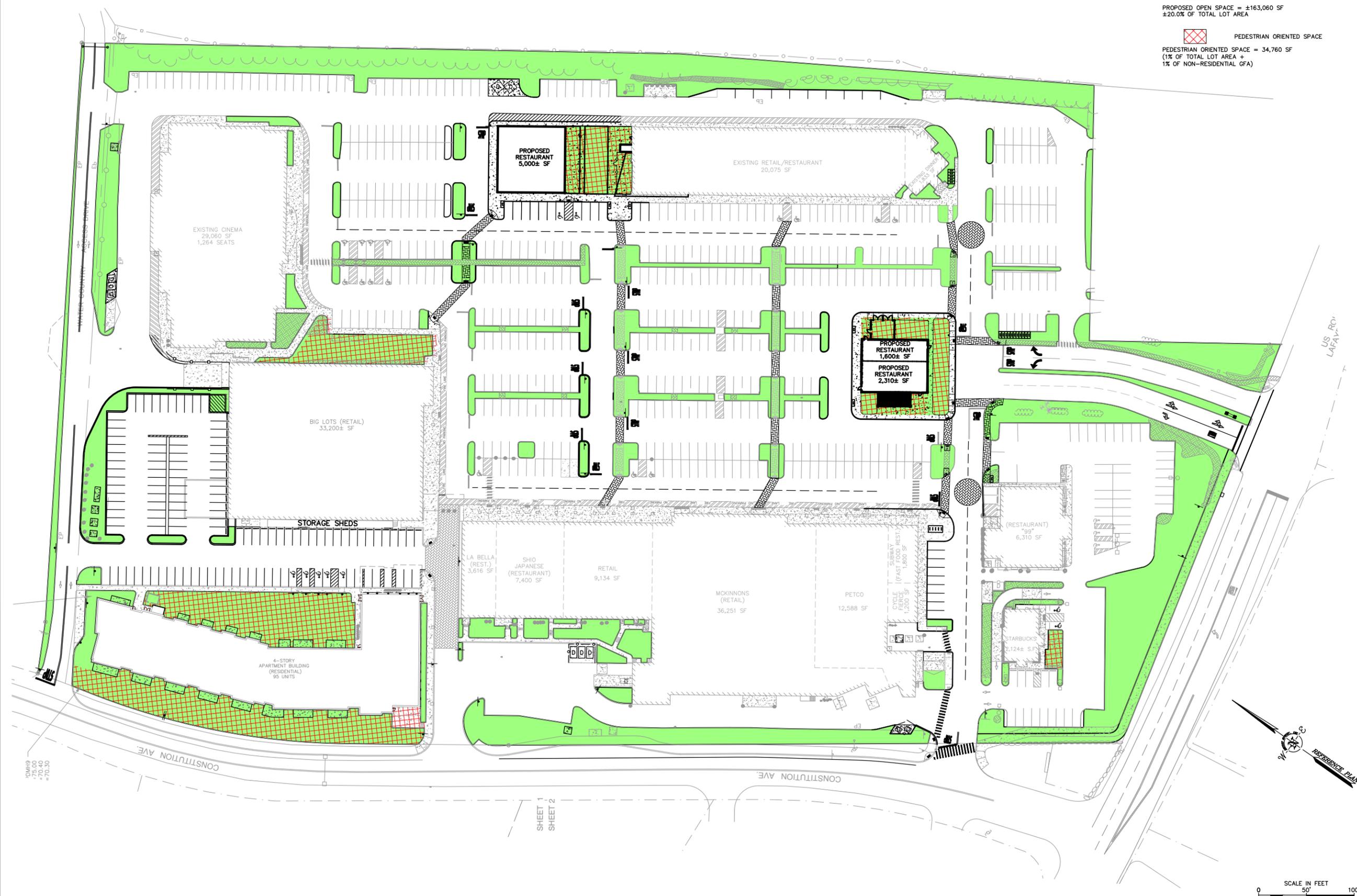
A handwritten signature in black ink, appearing to be 'Josh Levy', written over the printed name and title.

LEGEND

--- PROPERTY LINE

PROPOSED OPEN SPACE = ±163,060 SF
 ±20.0% OF TOTAL LOT AREA

PEDESTRIAN ORIENTED SPACE = 34,760 SF
 (1% OF TOTAL LOT AREA +
 1% OF NON-RESIDENTIAL GFA)



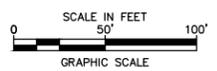
Waterstone Retail Development
 Southgate Plaza Redevelopment

Portsmouth,
 New Hampshire

Mark	Date	Description
3	11/19/18	TAC Submission for Amended Approval
2	3/30/17	Revised Per TAC Comments
1	1/19/16	Initial Submission to TAC

PROJECT NO: W1725
 FILE: W-1725-4-DSGN.dwg
 DRAWN BY: NAH/CML
 CHECKED BY: PMC
 APPROVED BY: BLM/PMC

OPEN SPACE EXHIBIT
 SCALE: AS SHOWN
 1 OF 1



FILENAME: J:\W1725 WATERSTONE PORTSMOUTH, NH SOUTHGATE PLAZA\DWG-CAD\DESIGN\W-1725-4-DSGN.DWG
 SAVE DATE: 11/19/2018 11:06 AM
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SHEET 1
 SHEET 2



SOUTHGATE PLAZA REDEVELOPMENT

2454 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE PERMIT DRAWINGS NOVEMBER 19, 2018

LIST OF DRAWINGS		
SHEET NO.	SHEET TITLE	LAST REVISED
	COVER SHEET	11/19/2018
C-1	PLAZA GENERAL NOTES SHEET	11/19/2018
C-2	PLAZA EXISTING CONDITIONS / DEMOLITION PLAN	11/19/2018
C-3	PLAZA OVERALL SITE PLAN	11/19/2018
C-3A	PLAZA SITE PLAN	11/19/2018
C-4	PLAZA GRADING, DRAINAGE & EROSION CONTROL PLAN	11/19/2018
C-5	PLAZA UTILITY PLAN	11/19/2018
C-6	PLAZA LANDSCAPE PLAN	11/19/2018
C-7	PLAZA PHOTOMETRICS PLAN	11/19/2018
C-8	EROSION CONTROL NOTES & DETAILS SHEET	11/19/2018
C-9	DETAILS SHEET	11/19/2018
C-10	DETAILS SHEET	11/19/2018
C-11	DETAILS SHEET	11/19/2018
C-12	DETAILS SHEET	11/19/2018
C-14	PLAZA TRUCK TURNING PLAN	11/19/2018
A101	FLOOR PLAN	10/04/2018
A200	EXTERIOR ELEVATIONS	10/04/2018
A201	EXTERIOR RENDERINGS	10/04/2018

LIST OF PERMITS & APPROVALS		
STATE	STATUS	DATE
NHDES ALTERATION OF TERRAIN	APPROVED	06/21/2016
NHDES SEWER CONNECTION PERMIT	APPROVED	08/16/2016
NHDOT DRIVEWAY PERMIT	APPROVED	12/22/2017
LOCAL		
SITE PLAN REVIEW	APPROVED	12/08/2017



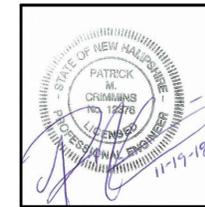
LOCATION MAP
SCALE: 1" = 2,000'

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
3. TIGHE & BOND, ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.

PREPARED BY:

Tighe & Bond
Engineers | Environmental Specialists



PATRICK M. CRIMMINS P.E.



BRAD MEZQUITA P.E.

APPLICANT:

2422 Lafayette Road Associates, LLC
c/o Waterstone Retail Development
322 Reservoir Street, 2nd Floor
Needham, Massachusetts 02494

SURVEY CONSULTANT:

Doucet Survey, Inc.
102 Kent Place
Newmarket, NH 03110

ARCHITECT:

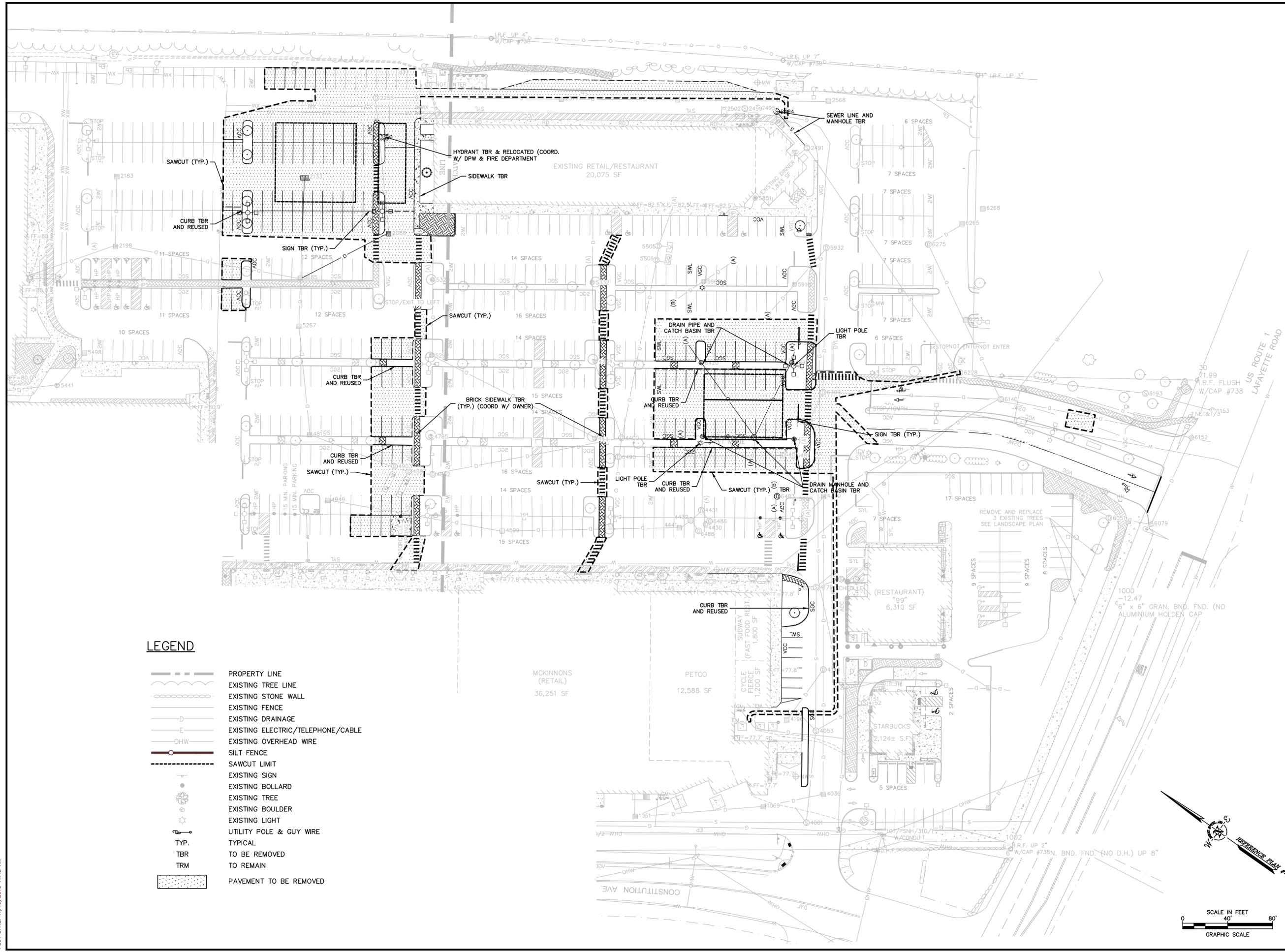
JD LaGrasse & Associates, Inc
One Elm Square
Andover, Massachusetts 01801

LANDSCAPE ARCHITECT:

Site Solutions, LLC
3715 Northside Parkway
300 Northcreek, Suite 720
Atlanta, Georgia 30327

COMPLETE SET 18 SHEETS





LEGEND

	PROPERTY LINE
	EXISTING TREE LINE
	EXISTING STONE WALL
	EXISTING FENCE
	EXISTING DRAINAGE
	EXISTING ELECTRIC/TELEPHONE/CABLE
	EXISTING OVERHEAD WIRE
	SILT FENCE
	SAWCUT LIMIT
	EXISTING SIGN
	EXISTING BOLLARD
	EXISTING TREE
	EXISTING BOULDER
	EXISTING LIGHT
	UTILITY POLE & GUY WIRE
	TYPICAL
	TO BE REMOVED
	TO REMAIN
	PAVEMENT TO BE REMOVED

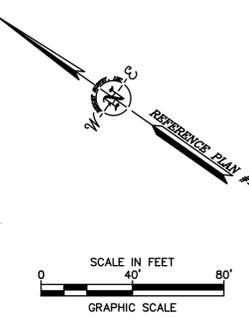
Waterstone Retail Development
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FILE:	W-1725-4-DSGN.dwg
DRAWN BY:	NAH/CML
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PLAZA EXISTING CONDITIONS /
 DEMOLITION PLAN

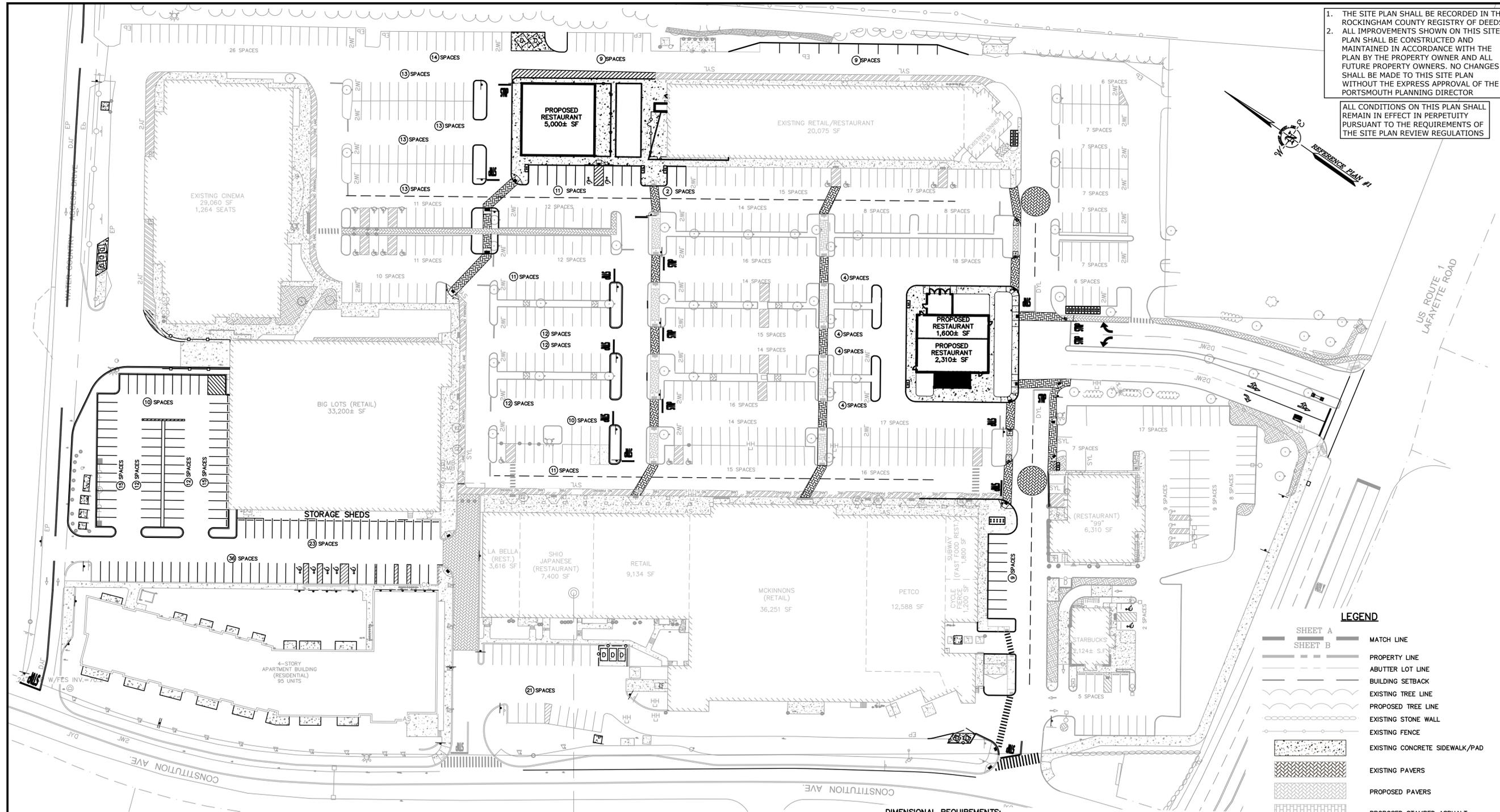
SCALE: AS SHOWN



FILENAME: J:\W1725 WATERSTONE PORTSMOUTH, NH SOUTHGATE PLAZA\DWG-CAD\DESIGN\W-1725-4-DSGN.DWG
 SAVE DATE: 11/19/2018 11:06 AM
 PLOT DATE: 11/19/2018 11:12 AM

1. THE SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
2. 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.

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



LEGEND

	MATCH LINE
	PROPERTY LINE
	ABUTTER LOT LINE
	BUILDING SETBACK
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING STONE WALL
	EXISTING FENCE
	EXISTING CONCRETE SIDEWALK/PAD
	EXISTING PAVERS
	PROPOSED PAVERS
	PROPOSED STAMPED ASPHALT
	PROPOSED CONCRETE SIDEWALK/PAD
	PROPOSED BITUMINOUS CONCRETE
	EXISTING SIGN
	PROPOSED SIGN
	EXISTING LIGHT
	LIGHT POLE BASE
	EXISTING BOLLARD
	PROPOSED BOLLARD
	EXISTING TRAFFIC SIGNAL
	PROPOSED EDGE OF PAVEMENT
	VERTICAL GRANITE CURBING
	SLOPED GRANITE CURBING
	MONOLITHIC CONCRETE CURB
	CAPE COD BERM
	RADIUS
	DOUBLE YELLOW CENTERLINE
	SINGLE SOLID WHITE LINE
	SINGLE DASHED WHITE LINE
	PROPOSED PARKING SPACES
	EXISTING PARKING SPACES

PARKING CALCULATIONS:

SHOPPING CENTER: MIN.=1 SPACE PER 350 SF GFA
MAX.=1 SPACE PER 250 SF GFA

RESIDENTIAL: MIN.=1.3 SPACE PER DWELLING UNIT
MAX.=1.8 SPACE PER DWELLING UNIT

LOADING CALCULATIONS:

RETAIL: 0 SPACES FOR 0 - 10,000 SF
1 SPACE FOR 10,001 - 25,000 SF
2 SPACES FOR 25,001 - 60,000 SF

OTHER NON-RESIDENTIAL: 0 SPACES FOR 0 - 10,000 SF
1 SPACE FOR 10,001 SF - 40,000 SF

TENANT:	AREA (SF):	MIN. REQ'D	PARKING SPACES: MAX. ALLOWED	PROVIDED	LOADING SPACES: MIN. REQ'D	PROVIDED
PETCO	±12,588				0	1
CYCLE FIERCE	±1,200				0	1
EXISTING RETAIL/RESTAURANT	±20,075				0	1
LA BELLA	±3,616				0	1
SHIO JAPANESE	±7,400				0	1
BIG LOTS	±33,200				2	2
SUBWAY	±1,800				0	0
THE 99	±6,310				0	1
McKINNON'S	±36,251				2	3
RETAIL	±9,134				0	1
DINER	±1,833				0	1
CINEMA	±29,060				1	1
PROPOSED RESTAURANT	±5,000				2	1
PROPOSED RESTAURANT	±1,800				1	1
PROPOSED RESTAURANT	±2,310				0	0
STARBUCKS	±2,124				0	1
TOTAL SHOPPING CENTER	±173,501	496	694		9	15
RESIDENTIAL:						
PROPOSED RESIDENTIAL (LOBBY)	±2,413	N/A	N/A			
DWELLING UNITS-FLOORS 1-4	95 UNITS	124	171			
TOTAL PARKING		620	865	760		

SITE DATA

LOCATION: 2454 LAFAYETTE ROAD
PORTSMOUTH, NEW HAMPSHIRE
MAP 273 LOT 3

ZONING DISTRICT: GATEWAY PLANNED DEVELOPMENT (GPD) IN GATEWAY DISTRICT (GW)

PERMITTED USE: SHOPPING CENTER/RESIDENTIAL

PARKING REQUIREMENTS:

	REQUIRED	MAX. ALLOWED	PROVIDED
TOTAL PARKING SPACES:	617	861	760*
ACCESSIBLE SPACES (2% OF TOTAL):	14		23
VAN ACCESSIBLE SPACES (1 PER 8 ACCESSIBLE SPACES):	3		16
PARKING STALL SIZE:	8.5 FT X 19 FT		9.0 FT X 19 FT
DRIVE AISLE:	24 FT		24 FT, 26 FT

* VARIANCE GRANTED BY BOARD OF ADJUSTMENT ON JULY 24, 2012 FOR UP TO 848 SPACES

LOADING REQUIREMENTS:

	REQUIRED	PROVIDED
TOTAL LOADING SPACES:	9	16
LOADING BERTH SIZE:		
FIRST REQUIRED BERTH:	12 FT X 20 FT	12 FT X 20 FT
ADDITIONAL REQUIRED BERTH:	12 FT X 45 FT	12 FT X 45 FT

DIMENSIONAL REQUIREMENTS:

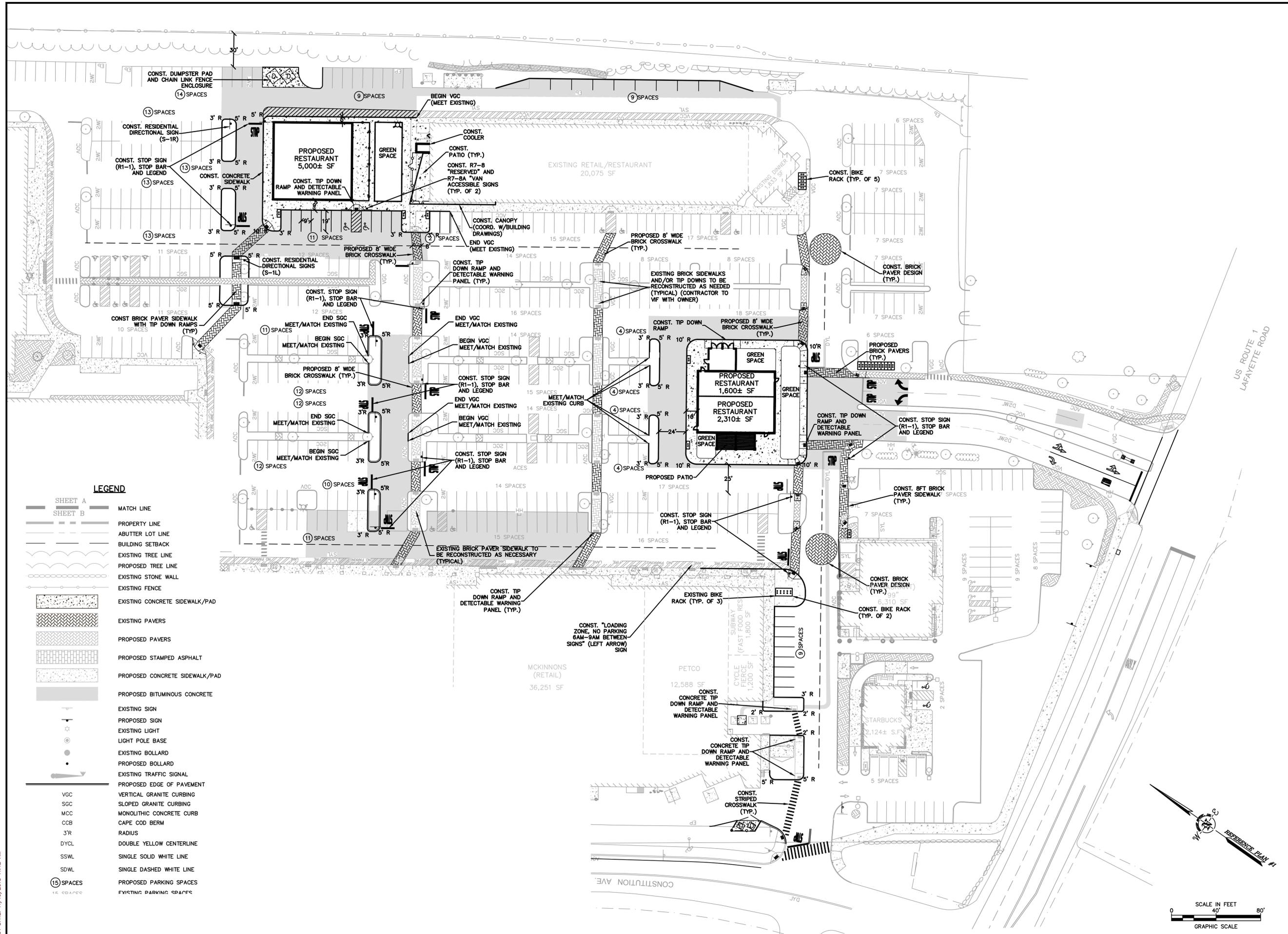
	REQUIRED	PROVIDED
DEVELOPMENT INTENSITY:	1.0	0.34
MAXIMUM FLOOR RATIO:		RESIDENTIAL = 104,528 SF NON-RESIDENTIAL = 173,501 SF (RATIO = 278,029 SF / 814,896 SF)
MINIMUM LOT AREA PER DWELLING UNIT:	237,500 SF (95 UNITS X 2,500 SF/UNIT)	814,896 SF
RESIDENTIAL AREA RATIO:	30% - 70%	38%
LOT REQUIREMENTS:		
MINIMUM CONTIGUOUS STREET FRONTAGE:	100 FT	±450 FT
MAXIMUM BUILDING COVERAGE:	75%	±22.6%
MINIMUM OPEN SPACE:	20%	±20.0%
MINIMUM PERCENT OF LOT FRONTAGE OPEN SPACE OR BUILDING:	60%	±84%
MINIMUM FRONT YARD FROM CENTERLINE OF LAFAYETTE:	70 FT	±151 FT
MINIMUM FRONT YARD FROM CENTERLINE OF LAFAYETTE:	90 FT	±151 FT(1)
MAXIMUM BUILDING HEIGHT:	45 FT (1.5 X 30FT)	51'-7"(2)
SITE DESIGN STANDARDS:		
PEDESTRIAN ORIENTED SPACE:	9,874 SF (1% OF TOTAL LOT AREA + 1% OF NON-RESIDENTIAL GFA)	34,760 SF
PARKING SETBACKS:		
BICYCLE PARKING:	50 FT	±21.9 FT(1)(2)
PEDESTRIAN WALKWAY THROUGHOUT SITE:	15% OF OFF-STREET PARKING	108 SPACES
WALKWAYS:	678 SPACES*0.15=102 SPACES	8 FT
		150 FT APART IN PARKING LOTS

(1) EXISTING NON-CONFORMING
(2) WAIVER GRANTED ON APRIL 21, 2016

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Waterstone Retail Development
Southgate Plaza Redevelopment
Portsmouth, New Hampshire

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DRAWN BY:	NAH/CML
CHECKED:	PMC
APPROVED BY:	BLM/PMC
PLAZA OVERALL SITE PLAN	
SCALE:	AS SHOWN
C-3	



Waterstone Retail Development
 Southgate Plaza Redevelopment

Portsmouth, New Hampshire

Mark	Date	Description
A	11/19/18	TAC Submission
PROJECT NO: W1725		
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DRAWN BY: NAH/CML		
CHECKED BY: PMC		
APPROVED BY: BLM/PMC		

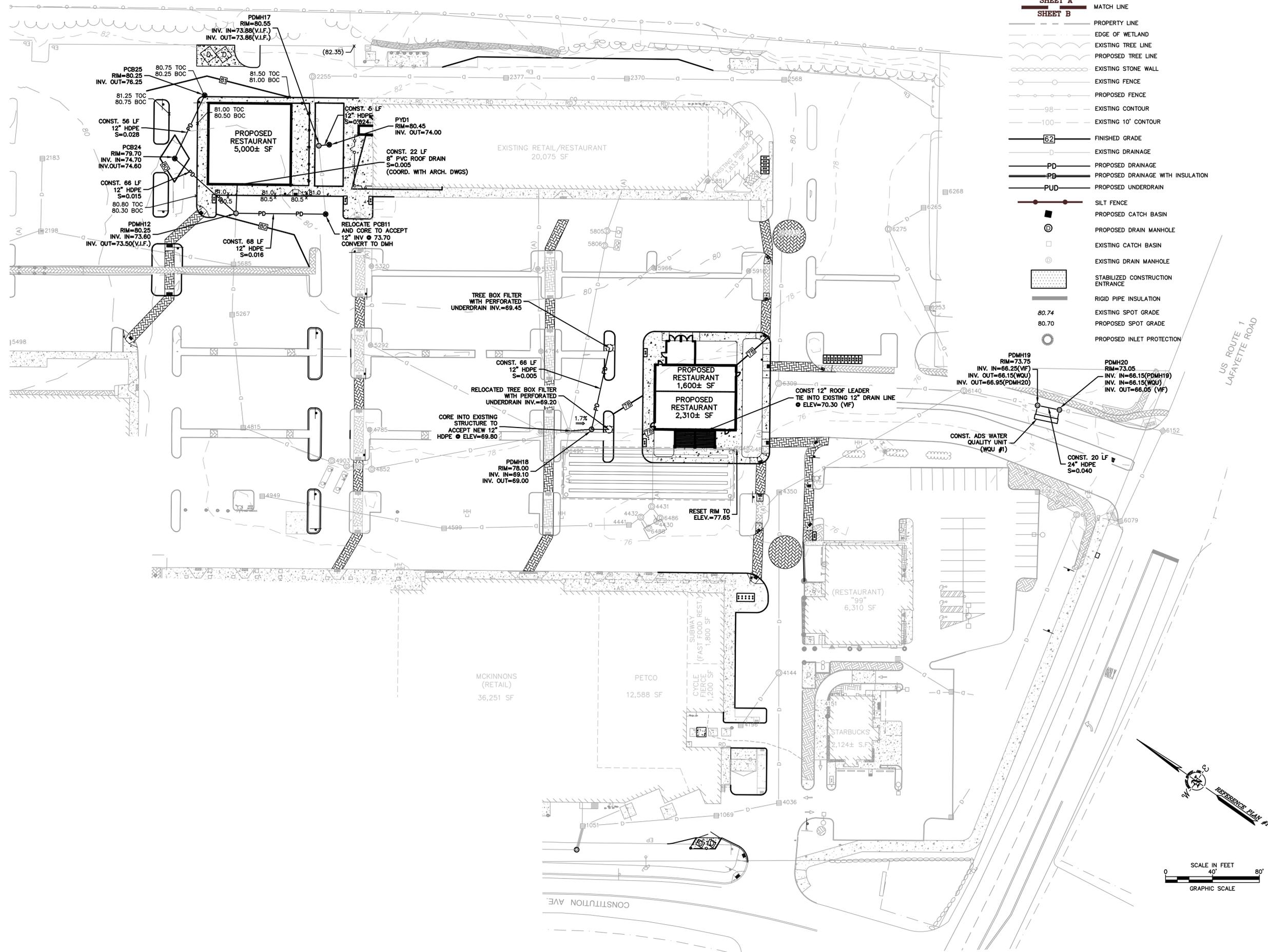
PLAZA SITE PLAN
 SCALE: AS SHOWN
 C-3A

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LEGEND

- SHEET A** MATCH LINE
- SHEET B**
- PROPERTY LINE
- EDGE OF WETLAND
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING STONE WALL
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING CONTOUR
- EXISTING 10' CONTOUR
- FINISHED GRADE
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE WITH INSULATION
- PROPOSED UNDERDRAIN
- SILT FENCE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- STABILIZED CONSTRUCTION ENTRANCE
- RIGID PIPE INSULATION
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- PROPOSED INLET PROTECTION



Waterstone Retail Development

Southgate Plaza Redevelopment

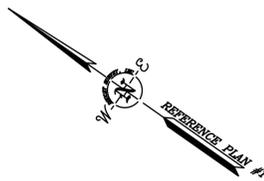
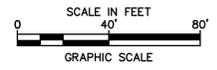
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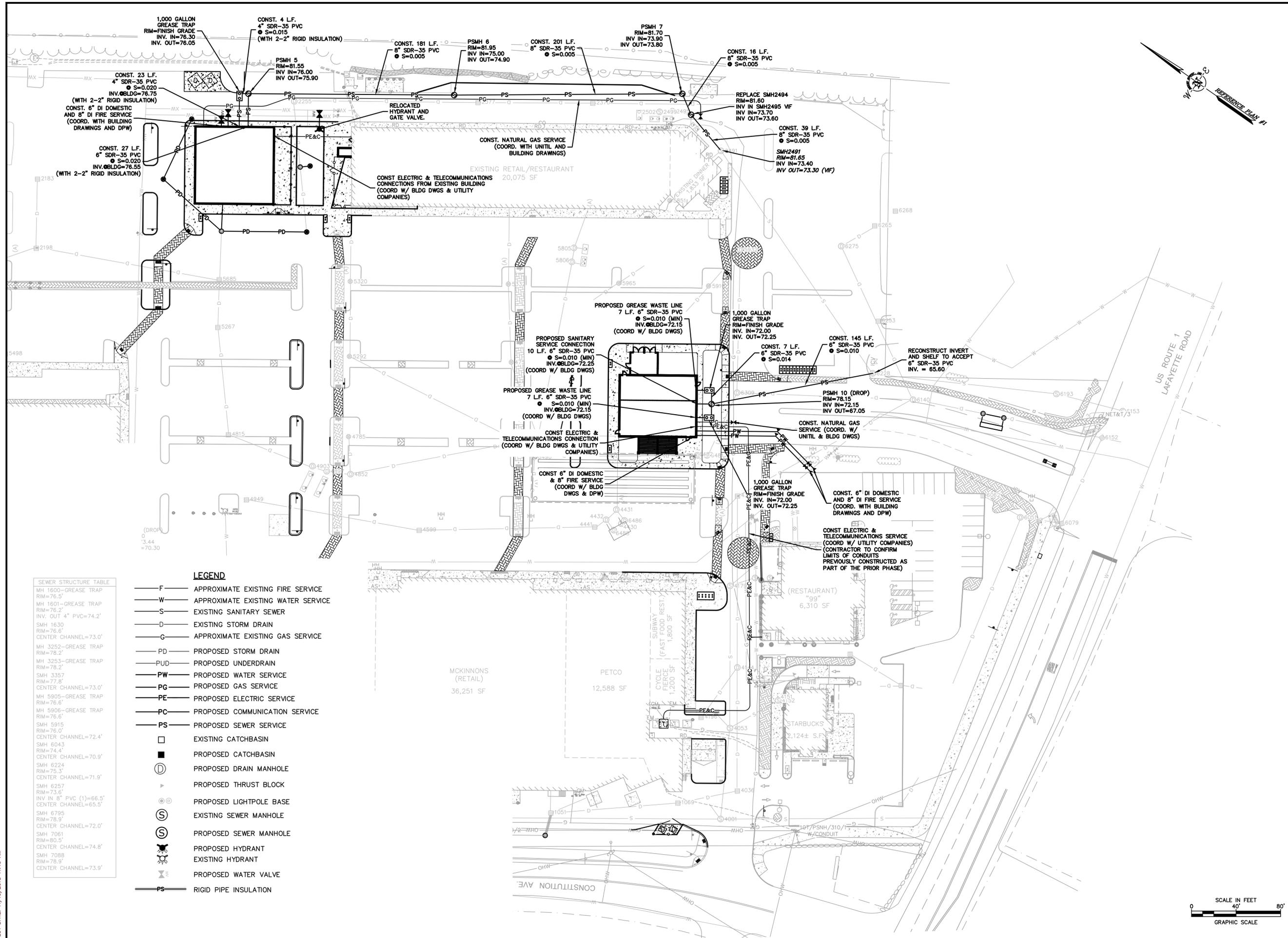
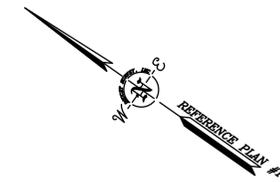
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PLAZA GRADING, DRAINAGE, AND EROSION CONTROL PLAN

SCALE: AS SHOWN



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SEWER STRUCTURE TABLE

MH 1600-GREASE TRAP	RIM=76.5'
MH 1801-GREASE TRAP	RIM=76.2'
INV. OUT 4" PVC=74.2'	
SMH 1630	RIM=76.6'
CENTER CHANNEL=73.0'	
MH 3252-GREASE TRAP	RIM=78.2'
MH 3253-GREASE TRAP	RIM=78.2'
SMH 3357	RIM=77.8'
CENTER CHANNEL=73.0'	
MH 5905-GREASE TRAP	RIM=76.6'
MH 5906-GREASE TRAP	RIM=76.6'
SMH 5915	RIM=76.0'
CENTER CHANNEL=72.4'	
SMH 6043	RIM=74.4'
CENTER CHANNEL=70.9'	
SMH 6224	RIM=75.3'
CENTER CHANNEL=71.9'	
SMH 6257	RIM=73.5'
INV IN 8" PVC (1)=66.5'	
CENTER CHANNEL=65.5'	
SMH 6795	RIM=78.9'
CENTER CHANNEL=72.0'	
SMH 7061	RIM=80.5'
CENTER CHANNEL=74.8'	
SMH 7088	RIM=78.9'
CENTER CHANNEL=73.9'	

- LEGEND**
- F — APPROXIMATE EXISTING FIRE SERVICE
 - W — APPROXIMATE EXISTING WATER SERVICE
 - S — EXISTING SANITARY SEWER
 - D — EXISTING STORM DRAIN
 - G — APPROXIMATE EXISTING GAS SERVICE
 - PD — PROPOSED STORM DRAIN
 - PUD — PROPOSED UNDERDRAIN
 - PW — PROPOSED WATER SERVICE
 - PG — PROPOSED GAS SERVICE
 - PE — PROPOSED ELECTRIC SERVICE
 - PC — PROPOSED COMMUNICATION SERVICE
 - PS — PROPOSED SEWER SERVICE
 - — EXISTING CATCHBASIN
 - — PROPOSED CATCHBASIN
 - ⊙ — PROPOSED DRAIN MANHOLE
 - ▶ — PROPOSED THRUST BLOCK
 - ⊙ — PROPOSED LIGHTPOLE BASE
 - ⊙ — EXISTING SEWER MANHOLE
 - ⊙ — PROPOSED SEWER MANHOLE
 - ⊙ — PROPOSED HYDRANT
 - ⊙ — EXISTING HYDRANT
 - ⊙ — PROPOSED WATER VALVE
 - PS — RIGID PIPE INSULATION

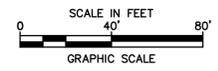
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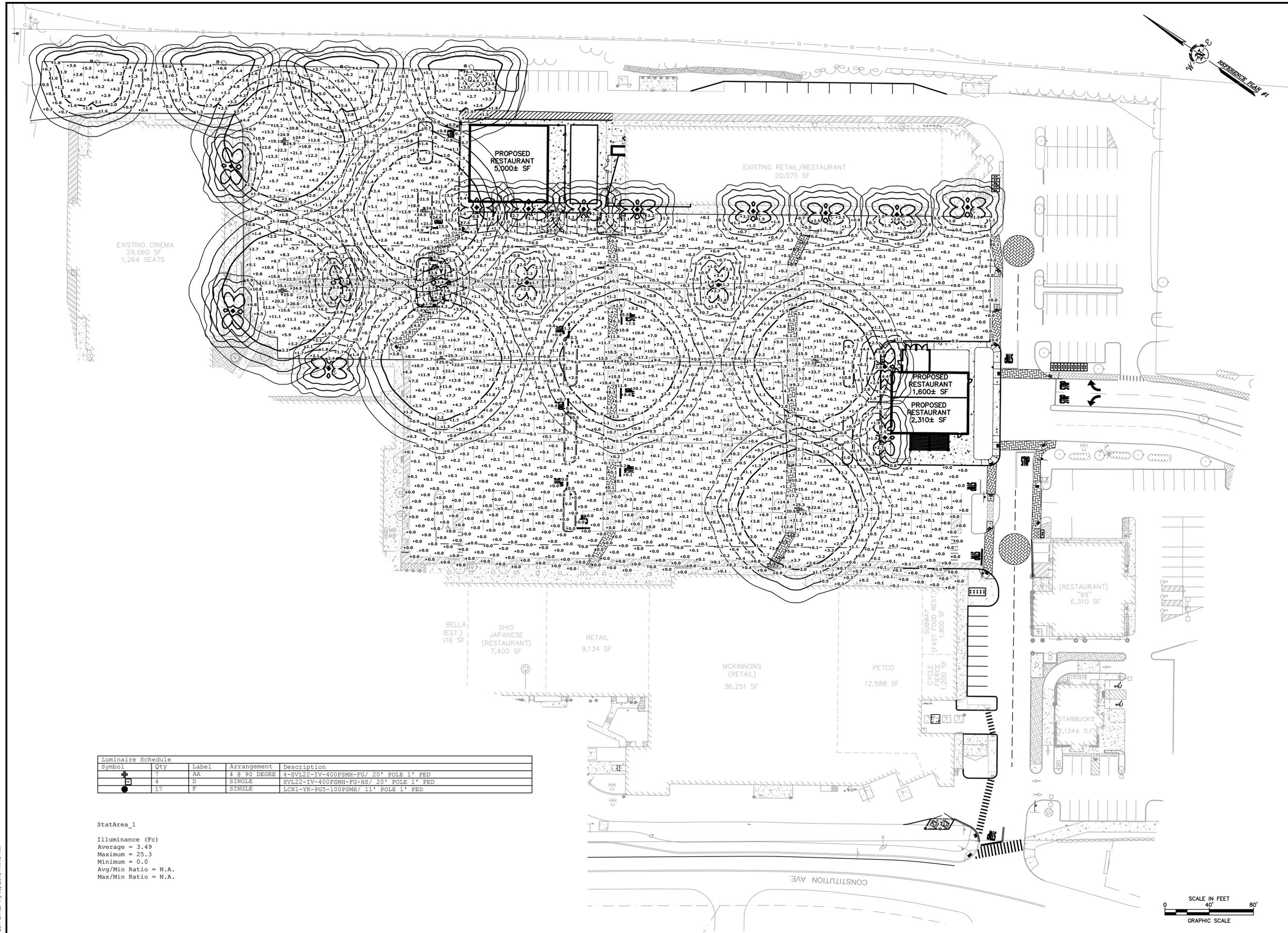
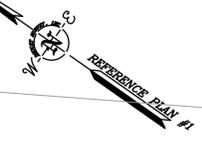
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PLAZA UTILITIES PLAN

SCALE: AS SHOWN



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Luminaire Schedule			
Symbol	Qty	Label	Description
⊕	7	AA	4-SVL22-IV-400PSMH-FG/ 20' POLE 1' PED
⊖	4	D	SINGLE SVL22-IV-400PSMH-FG-HS/ 20' POLE 1' PED
●	17	F	SINGLE LCK1-YK-PG5-100PSMH/ 11' POLE 1' PED

StatArea_1
 Illuminance (Fc)
 Average = 3.49
 Maximum = 25.3
 Minimum = 0.0
 Avg/Min Ratio = N.A.
 Max/Min Ratio = N.A.

Waterstone Retail Development
 Southgate Plaza
 Redevelopment

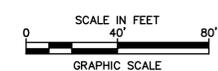
Portsmouth,
 New Hampshire

Mark	Date	Description
A	11/19/18	TAC Submission

PROJECT NO: W1725
 FILE: W-1725-4-DSGN.dwg
 DRAWN BY: NAH/CML
 CHECKED: PMC
 APPROVED BY: BLM/PMC

PLAZA PHOTOMETRICS PLAN

SCALE: AS SHOWN



FILENAME: J:\W1725 WATERSTONE PORTSMOUTH, NH SOUTHGATE PLAZA\DWG-CAD\DESIGN\W-1725-4-DSGN.DWG
 SAVE DATE: 11/19/2018 11:06 AM
 PLOT DATE: 11/19/2018 11:13 AM

PROJECT NAME AND LOCATION:
SOUTHGATE PLAZA
2454 LAFAYETTE ROAD
PORTSMOUTH, NH 03801

LATITUDE: 43°-02'-06"N
LONGITUDE: 70°-47'-06"W

DESCRIPTION:
THE PROJECT CONSISTS OF THE REDEVELOPMENT OF AN EXISTING SHOPPING CENTER WITH ASSOCIATED PARKING, GRADING, UTILITIES, AND LANDSCAPING. THE WORK IS ANTICIPATED TO START IN SPRING 2016, AND BE COMPLETED BY SPRING 2017.

DISTURBED AREA:
THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY ±12.4 ACRES.

SOIL CHARACTERISTICS:
BASED ON THE NRCS SOIL SURVEY FOR ROCKINGHAM COUNTY THE SOILS CONSIST OF PREVIOUSLY DEVELOPED URBAN SOILS WHICH HAVE UNKNOWN DRAINAGE PROPERTIES.

SEQUENCE OF MAJOR ACTIVITIES:

- CUT AND CLEAR TREES.
- CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
 - NEW CONSTRUCTION
 - DEVELOPMENT OF BORROW PIT AREAS
 - DISPOSAL OF SEDIMENT/SOIL, STUMP AND OTHER SOLID WASTE
 - STREAM CHANNEL MODIFICATIONS
 - CONTROL OF DUST
 - CONSTRUCTION OF ACCESS AND HAUL ROAD
 - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
 - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- ALL PERMANENT DITCHES, SWALES, DETENTION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMP'S PRIOR TO DIRECTING RUNOFF TO THEM.
- CLEAR AND DISPOSE OF DEBRIS.
- CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- GRADE AND GRAVEL ROADWAYS AND PARKING AREAS – ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

NAME OF RECEIVING WATERS:
THE STORM WATER RUNOFF WILL BE COLLECTED IN A CLOSED DRAINAGE SYSTEM WHICH ULTIMATELY DISCHARGES INTO THE LITTLE HARBOR.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES:

- STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN TWENTY ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. ALL CUT AND FILL SLOPES AND ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. STABILIZATION MEASURES TO BE USED INCLUDE:
 - TEMPORARY SEEDING
 - MULCHING
 - STONE RIP RAP
 - LUTE MATTING
- DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH HAYBALE BARRIERS AND SILT FENCES. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY NOVEMBER 15.
- AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

WINTER CONSTRUCTION STABILIZATION PRACTICES:

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES AND MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR DESIGN FLOW CONDITIONS; AND
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD WORK OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

OFF-SITE VEHICLE TRACKING:
THE CONTRACTOR SHALL CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS:

- GENERAL: THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN.
 - ALL SWALES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
 - THE SMALLEST PRACTICAL PORTION OF THE SITE WILL BE DENUDE AT ONE TIME, UNDER NO CIRCUMSTANCES SHALL MORE THAN 5.0 ACRES OF THE PROJECT SITE BE UNSTABILIZED AT ONE TIME.
 - ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 1/2 INCH OR GREATER.
 - ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
 - BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE OR HAYBALE BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE OR BALE.
 - ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
 - TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.
 - A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
 - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), WILL BE RESPONSIBLE FOR INSPECTIONS AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES.
 - THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE "NEW HAMPSHIRE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION" PREPARED BY THE ROCKINGHAM COUNTY SOIL AND WATER CONSERVATION DISTRICT.
 - ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES OR SPECIFICATIONS.
 - THE USE OF SAND FOR THE PURPOSE OF PEDESTRIAN SAFETY AND SAFE DRIVING CONDITION SHALL BE MINIMIZED.
 - THE OWNER SHALL CLEAN ALL CATCH BASINS, DRAIN MANHOLES AND SWEEP THE PARKING LOT ON AN ANNUAL BASIS.
- FILTERS
 - SILT FENCE
 - SYNTHETIC FILTER FABRIC SHALL BE A PREVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	TEST	REQUIREMENTS
FILTERING EFFICIENCY	VTM-51	75% MINIMUM
TENSILE STRENGTH AT	VTM-52	EXTRA STRENGTH
20% MAXIMUM ELONGATION*		50 LB/LINEAR IN. (MIN.) STANDARD STRENGTH
		30 LB/LINEAR IN. (MIN.)
FLOW RATE	VTM-51	0.3 GAL/SF/MIN. (MIN.)

 * REQUIREMENTS REDUCED BY 50 PERCENT AFTER SIX (6) MONTHS OF INSTALLATION.
 - SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX (6) MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES F TO 120 DEGREES F.
 - THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED THIRTY-SIX (36) INCHES.
 - THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM SIX (6) INCH OVERLAP, AND SECURELY SEALED.
 - POSTS SHALL BE SPACED A MAXIMUM OF TEN (10) FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 16 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
 - POSTS FOR SILT FENCES SHALL BE EITHER 4-INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.
 - WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE PROJECTIONS

- FASTENING WIRE TO THEM.
 - A TRENCH SHALL BE EXCAVATED APPROXIMATELY FOUR (4) INCHES WIDE AND FOUR (4) INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 - WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE (1) INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND NO MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACES.
 - THE "STANDARD STRENGTH" FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND EIGHT (8) INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 - WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM (1) APPLYING.
 - THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAS BEEN PERMANENTLY STABILIZED.
 - SEQUENCE OF INSTALLATION
 - SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
 - MAINTENANCE
 - STRAW/HAY BALE BARRIER AND SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPONDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
 - SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDDED.
 - MULCHING
 - TIMING
 - IN ORDER FOR MULCH TO BE EFFECTIVE, IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO (2) TYPES OF STANDARDS WHICH SHALL BE USED TO ASSURE THIS:
 - APPLY MULCH PRIOR TO ANY STORM EVENT. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE IN CONCORD, TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
 - REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD. THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON A AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS.
 - PERMANENT JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOILERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.
 - APPLICATION RATE
 - MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 90 TO 100 POUNDS PER 1000 SQUARE FEET. THE MINIMUM MULCH REQUIREMENT, REGARDLESS OF APPLICATION RATE IS THAT SOIL MUST NOT BE VISIBLE.
 - GUIDELINES FOR WINTER MULCH APPLICATION
 - WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH. NO MULCH IS TO BE APPLIED OVER MORE THAN TWO (2) INCHES OF SNOW. IF SNOW DEPTH IS GREATER THAN TWO (2) INCHES IT SHALL BE REMOVED BEFORE MULCHING.
 - MAINTENANCE
 - MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
 - EXCELSSOR MATTING
 - EXCELSSOR MATTING SHALL BE USED IN PLACE OF MULCH ON ALL SLOPES STEEPER THAN 3:1.
 - ALL SLOPES GREATER THAN 15% DURING THE REGULAR CONSTRUCTION SEASON ARE TO HAVE NETTING OVER MULCH OR COMBINATION EROSION CONTROL MAT USED (MULCH AND NET). THIS APPLIES TO ALL SLOPES GREATER THAN 8% AFTER OCTOBER 1. MULCHING IS REQUIRED OVER HYDROSEEDING.
 - TEMPORARY GRASS COVER
 - SEED BED PREPARATION
 - APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE.
 - SEEDING
 - UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE.
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
 - MAINTENANCE
 - TEMPORARY SEEDINGS SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
- PERMANENT MULCHING
 - TIMING
 - APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS THAT RESIST DECOMPOSITION SUCH AS WOOD CHIPS OR CRUSHED STONE TO THE SOIL SURFACE WHERE VEGETATION STABILIZATION IS EITHER IMPRACTICAL OR DIFFICULT TO ESTABLISH.
 - WINTER STABILIZATION SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS.
 - CONSIDERATIONS
 - PERMANENT MULCHING SHALL BE USED TO STABILIZE CHRONIC EROSION AREAS WHICH RECEIVE HEAVY FOOT OR VEHICLE TRAFFIC. NOT INTENDED FOR AREAS OF CONCENTRATED FLOWS.
 - IF WOOD CHIPS ARE USED IN LANDSCAPED AREAS (TREES & SHRUBS), A SUPPLEMENTAL APPLICATION OF CHEMICAL FERTILIZER SHOULD BE APPLIED AT A RATE OF TWO POUNDS OF 5-10-5 PER 100 SQUARE FEET OF MULCH.
 - IF CRUSHED STONE IS USED, A PLASTIC FILTER CLOTH SHALL BE PLACED BETWEEN THE GROUND AND THE STONE.
 - SPECIFICATIONS
 - WOOD CHIPS OR AGGREGATE SHALL BE USED ON SLOPES NO STEEPER THAN 3 HORIZONTALLY ON 1 VERTICALLY.
 - PERMANENT MULCH SHALL BE 3 INCHES OR MORE IN DEPTH.
 - WOOD CHIPS SHALL BE APPLIED AT A RATE OF 500-900 POUNDS PER 1,000 SQUARE FEET OR 10-20 TONS PER ACRE. WOOD CHIPS SHALL BE GREEN OR AIR-DRIED AND FREE OF OBJECTIONABLE COARSE MATERIALS.
 - AGGREGATE COVER (GRAVEL, CRUSHED STONE OR SLAG) SHALL BE WASHED, 1/4 INCH TO 2 1/2 INCHES AND APPLIED AT A RATE OF 9 CUBIC YARDS PER 1,000 SQUARE FEET.
 - MAINTENANCE
 - WOOD CHIPS SHALL BE MONITORED FOR DECOMPOSITION AND NEW APPLICATIONS MADE.
 - CRUSHED STONE SHALL BE MONITORED FOR WASH OUT AND SLIPPING DOWN SLOPE. IF EITHER OCCUR, NEW MATERIAL SHALL BE PROVIDED ON THE BARREN AREAS.
 - VEGETATIVE PRACTICE
 - FOR PERMANENT MEASURES AND PLANTINGS.
 - LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 3 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
 - FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
 - SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH.
 - SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH.
 - HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE.
 - THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.
 - THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED.
 - A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SLOPE SEED	80 LBS/ACRE
CREEPING RED FESCUE	80 LBS/ACRE
TALL FESCUE	80 LBS/ACRE
REDTOP	8 LBS/ACRE

 * GENERAL COVER

50 LBS/ACRE	100 LBS/ACRE	50 LBS/ACRE
CREEPING RED FESCUE	50 LBS/ACRE	50 LBS/ACRE
KENTUCKY BLUEGRASS	100 LBS/ACRE	50 LBS/ACRE
PERENNIAL RYE GRASS	50 LBS/ACRE	50 LBS/ACRE

- FOR FASTENING WIRE TO THEM.
 - A TRENCH SHALL BE EXCAVATED APPROXIMATELY FOUR (4) INCHES WIDE AND FOUR (4) INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 - WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE (1) INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND NO MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACES.
 - THE "STANDARD STRENGTH" FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND EIGHT (8) INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 - WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM (1) APPLYING.
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 - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAS BEEN PERMANENTLY STABILIZED.
 - SEQUENCE OF INSTALLATION
 - SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
 - MAINTENANCE
 - STRAW/HAY BALE BARRIER AND SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPONDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
 - SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
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 - MULCHING
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 - APPLY MULCH PRIOR TO ANY STORM EVENT. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE IN CONCORD, TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
 - REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD. THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON A AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS.
 - PERMANENT JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOILERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.
 - APPLICATION RATE
 - MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 90 TO 100 POUNDS PER 1000 SQUARE FEET. THE MINIMUM MULCH REQUIREMENT, REGARDLESS OF APPLICATION RATE IS THAT SOIL MUST NOT BE VISIBLE.
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 - WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH. NO MULCH IS TO BE APPLIED OVER MORE THAN TWO (2) INCHES OF SNOW. IF SNOW DEPTH IS GREATER THAN TWO (2) INCHES IT SHALL BE REMOVED BEFORE MULCHING.
 - MAINTENANCE
 - MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
 - EXCELSSOR MATTING
 - EXCELSSOR MATTING SHALL BE USED IN PLACE OF MULCH ON ALL SLOPES STEEPER THAN 3:1.
 - ALL SLOPES GREATER THAN 15% DURING THE REGULAR CONSTRUCTION SEASON ARE TO HAVE NETTING OVER MULCH OR COMBINATION EROSION CONTROL MAT USED (MULCH AND NET). THIS APPLIES TO ALL SLOPES GREATER THAN 8% AFTER OCTOBER 1. MULCHING IS REQUIRED OVER HYDROSEEDING.
 - TEMPORARY GRASS COVER
 - SEED BED PREPARATION
 - APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE.
 - SEEDING
 - UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE.
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
 - MAINTENANCE
 - TEMPORARY SEEDINGS SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
- PERMANENT MULCHING
 - TIMING
 - APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS THAT RESIST DECOMPOSITION SUCH AS WOOD CHIPS OR CRUSHED STONE TO THE SOIL SURFACE WHERE VEGETATION STABILIZATION IS EITHER IMPRACTICAL OR DIFFICULT TO ESTABLISH.
 - WINTER STABILIZATION SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS.
 - CONSIDERATIONS
 - PERMANENT MULCHING SHALL BE USED TO STABILIZE CHRONIC EROSION AREAS WHICH RECEIVE HEAVY FOOT OR VEHICLE TRAFFIC. NOT INTENDED FOR AREAS OF CONCENTRATED FLOWS.
 - IF WOOD CHIPS ARE USED IN LANDSCAPED AREAS (TREES & SHRUBS), A SUPPLEMENTAL APPLICATION OF CHEMICAL FERTILIZER SHOULD BE APPLIED AT A RATE OF TWO POUNDS OF 5-10-5 PER 100 SQUARE FEET OF MULCH.
 - IF CRUSHED STONE IS USED, A PLASTIC FILTER CLOTH SHALL BE PLACED BETWEEN THE GROUND AND THE STONE.
 - SPECIFICATIONS
 - WOOD CHIPS OR AGGREGATE SHALL BE USED ON SLOPES NO STEEPER THAN 3 HORIZONTALLY ON 1 VERTICALLY.
 - PERMANENT MULCH SHALL BE 3 INCHES OR MORE IN DEPTH.
 - WOOD CHIPS SHALL BE APPLIED AT A RATE OF 500-900 POUNDS PER 1,000 SQUARE FEET OR 10-20 TONS PER ACRE. WOOD CHIPS SHALL BE GREEN OR AIR-DRIED AND FREE OF OBJECTIONABLE COARSE MATERIALS.
 - AGGREGATE COVER (GRAVEL, CRUSHED STONE OR SLAG) SHALL BE WASHED, 1/4 INCH TO 2 1/2 INCHES AND APPLIED AT A RATE OF 9 CUBIC YARDS PER 1,000 SQUARE FEET.
 - MAINTENANCE
 - WOOD CHIPS SHALL BE MONITORED FOR DECOMPOSITION AND NEW APPLICATIONS MADE.
 - CRUSHED STONE SHALL BE MONITORED FOR WASH OUT AND SLIPPING DOWN SLOPE. IF EITHER OCCUR, NEW MATERIAL SHALL BE PROVIDED ON THE BARREN AREAS.
 - VEGETATIVE PRACTICE
 - FOR PERMANENT MEASURES AND PLANTINGS.
 - LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 3 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
 - FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
 - SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH.
 - SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH.
 - HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE.
 - THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.
 - THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED.
 - A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SLOPE SEED	80 LBS/ACRE
CREEPING RED FESCUE	80 LBS/ACRE
TALL FESCUE	80 LBS/ACRE
REDTOP	8 LBS/ACRE

 * GENERAL COVER

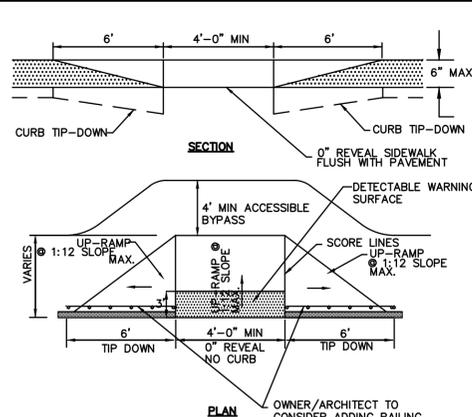
50 LBS/ACRE	100 LBS/ACRE	50 LBS/ACRE
CREEPING RED FESCUE	50 LBS/ACRE	50 LBS/ACRE
KENTUCKY BLUEGRASS	100 LBS/ACRE	50 LBS/ACRE
PERENNIAL RYE GRASS	50 LBS/ACRE	50 LBS/ACRE

- FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.
- STORM DRAIN INLET PROTECTION
 - SILT SACK
 - SACK SHALL BE INSTALLED WITHIN CATCHBASIN, MAKING SURE EMPTY STRAPS ARE LAID FLAT OUTSIDE THE BASIN.
 - SACK SHALL FIT TIGHTLY WITHIN THE BASIN TO PREVENT SEDIMENT FROM GOING THROUGH ANY GAP.
 - ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINSTORM AND REPAIRS MADE AS NECESSARY.
 - SEDIMENT SHOULD BE REMOVED FROM THE DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE-THIRD THE DEPTH OF THE TRAP.
 - SILT SACK SHALL BE REMOVED UPON THE COMPLETION OF PROJECT.
- STABILIZED CONSTRUCTION ENTRANCE
 - SPECIFICATIONS
 - AGGREGATE SIZE: USE TWO (2) INCHES STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.
 - WIDTH: TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS.
 - LENGTH: AS REQUIRED, BUT NOT LESS THAN FIFTY (50) FEET.
 - GEOTEXTILE: TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
 - CRITERIA FOR GEOTEXTILE: THE FABRICS SHALL BE TREVIA SPUNBOND 1135, MIRAFI 600X OR EQUAL.
 - MAINTENANCE
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERWAYS.

TIMING OF CONTROLS/MEASURES:
THE MAXIMUM AREA TO BE DISTURBED AT ONE TIME SHALL BE KEPT UNDER FIVE (5) ACRES. A PHASING PLAN DESCRIBING THE AREAS TO BE DISTURBED SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND NHDES. AN INDEPENDENT MONITORING COMPANY SHALL BE HIRED BY THE CONTRACTOR TO MONITOR ALL EROSION CONTROL DEVICES.

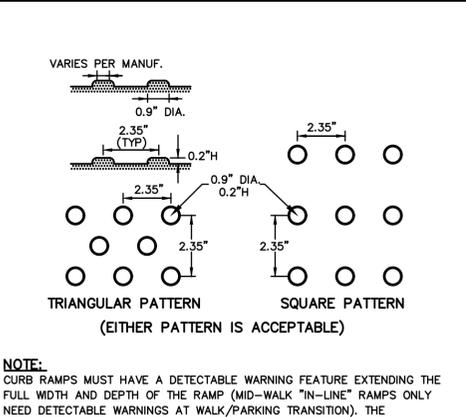
AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF ANY WETLAND OR STREAM, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT FENCES AND HAYBALE BARRIERS AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

- WASTE DISPOSAL
 - WASTE MATERIALS
 - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
 - HAZARDOUS WASTE
 - ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
 - SANITARY WASTE
 - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- SPILL PREVENTION
 - MATERIAL MANAGEMENT PRACTICES
 - THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
 - GOOD HOUSEKEEPING:
 - THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING



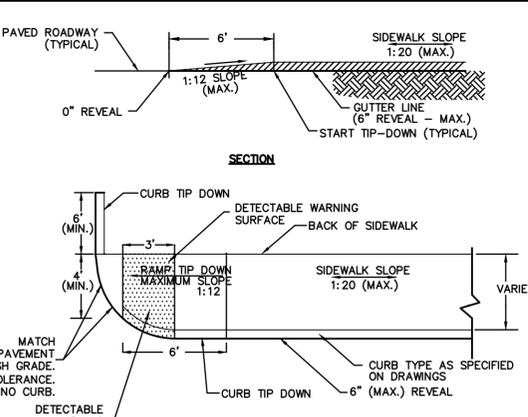
HANDICAP ACCESSIBLE RAMP
NOT TO SCALE

NOTES:
1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
2. RAMPS SHALL BE 6" THICK WITH WWF OR FIBER REINFORCED CONCRETE (4,000 PSI)
3. PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS.
4. DETECTABLE WARNING STRIP SHALL BE CAST IRON. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



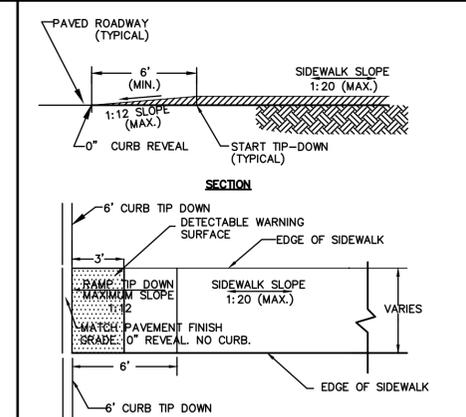
DETECTABLE WARNING SURFACE
NOT TO SCALE

NOTE:
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP (MID-WALK "IN-LINE" RAMPS ONLY NEED DETECTABLE WARNINGS AT WALK/PARKING TRANSITION). THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT).



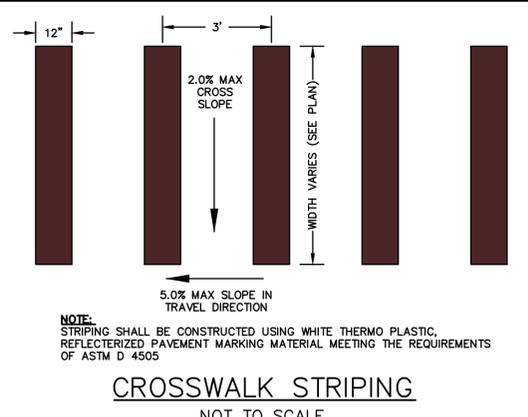
CORNER TIP DOWN RAMP
NOT TO SCALE

NOTES:
1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
2. RAMPS SHALL BE 6" THICK WITH WWF OR FIBER REINFORCED CONCRETE (4,000 PSI)
3. PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS.
4. DETECTABLE WARNING STRIP SHALL BE CAST IRON. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



SIDEWALK TIP-DOWN RAMP
NOT TO SCALE

NOTES:
1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
2. RAMPS SHALL BE 6" THICK WITH WWF OR FIBER REINFORCED CONCRETE (4,000 PSI)
3. PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS.
4. DETECTABLE WARNING STRIP SHALL BE CAST IRON. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



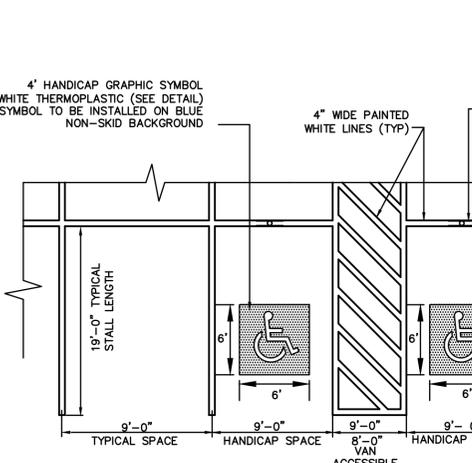
CROSSWALK STRIPING
NOT TO SCALE

NOTE:
STRIPING SHALL BE CONSTRUCTED USING WHITE THERMO PLASTIC, REFLECTORIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505



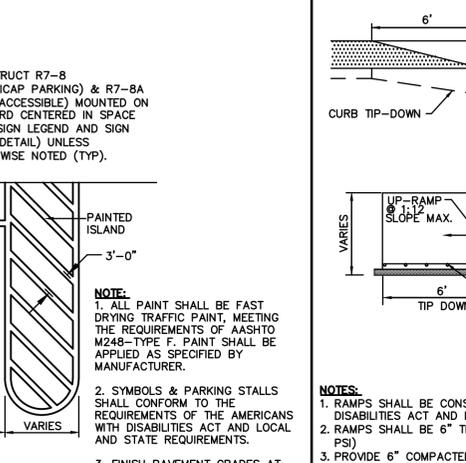
ONLY LEGEND
NOT TO SCALE

NOTE:
1. PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE PLAN.
2. STRIPING SHALL BE CONSTRUCTED USING WHITE THERMO PLASTIC, REFLECTORIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505



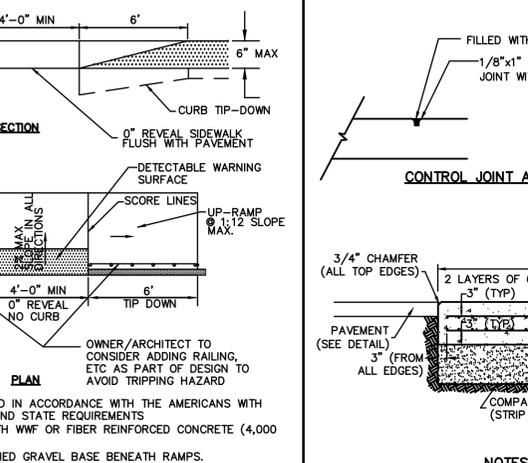
STALL STRIPING-SINGLE STRIPE
NOT TO SCALE

NOTE:
1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M249-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS.
3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.



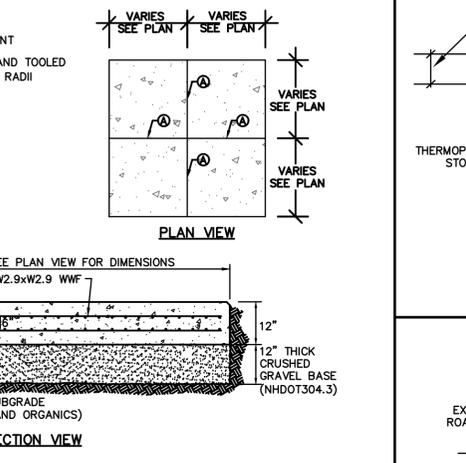
HANDICAP TIP DOWN RAMP
NOT TO SCALE

NOTES:
1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
2. RAMPS SHALL BE 6" THICK WITH WWF OR FIBER REINFORCED CONCRETE (4,000 PSI)
3. PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS.
4. DETECTABLE WARNING STRIP SHALL BE CAST IRON. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



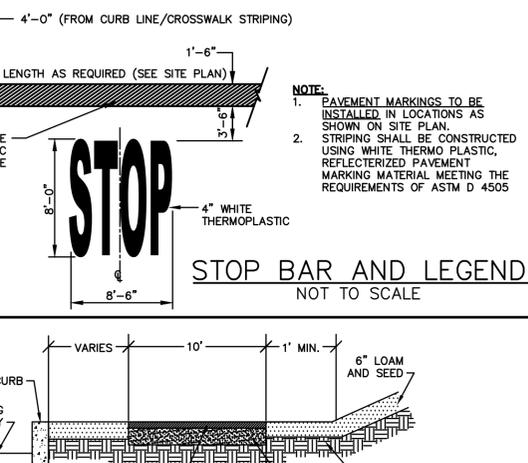
CONTROL JOINT A
NOT TO SCALE

NOTES:
1. CONCRETE TO BE 4000 PSI, 7% AIR ENTRAINED
2. STANDARD BROOM FINISH.



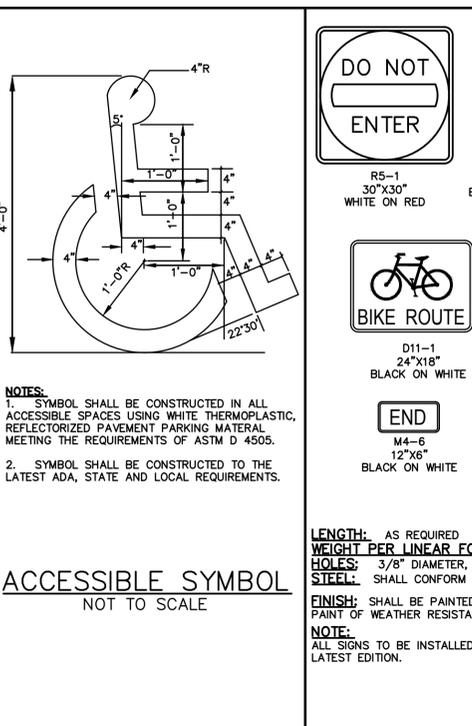
DUMPSTER PAD
NOT TO SCALE

NOTES:
1. CONCRETE TO BE 4000 PSI, 7% AIR ENTRAINED
2. STANDARD BROOM FINISH.



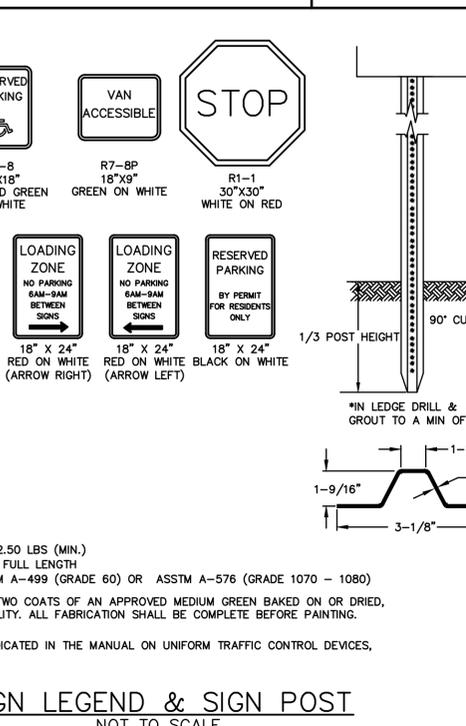
STOP BAR AND LEGEND
NOT TO SCALE

NOTE:
1. PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE PLAN.
2. STRIPING SHALL BE CONSTRUCTED USING WHITE THERMO PLASTIC, REFLECTORIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505



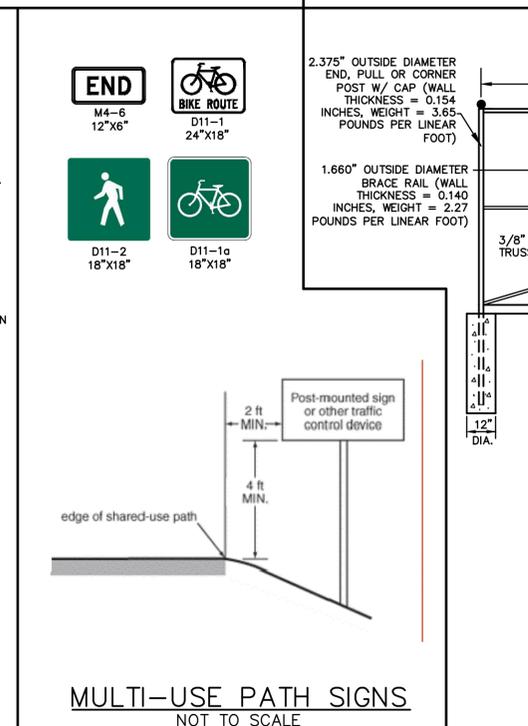
ACCESSIBLE SYMBOL
NOT TO SCALE

NOTES:
1. SYMBOL SHALL BE CONSTRUCTED IN ALL ACCESSIBLE SPACES USING WHITE THERMOPLASTIC, REFLECTORIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505.
2. SYMBOL SHALL BE CONSTRUCTED TO THE LATEST ADA, STATE AND LOCAL REQUIREMENTS.



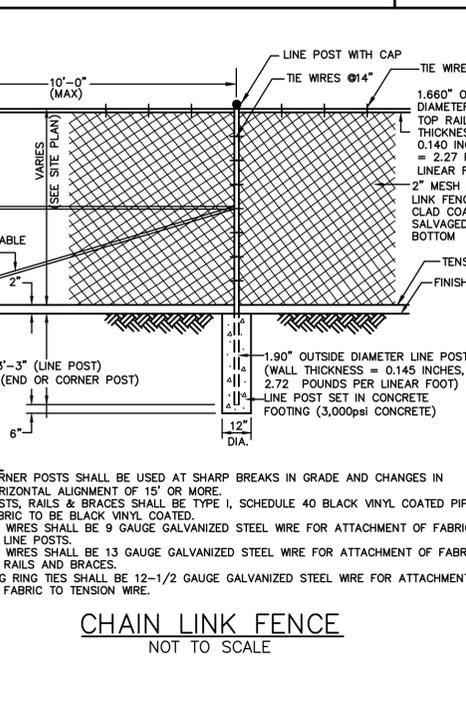
SIGN LEGEND & SIGN POST
NOT TO SCALE

LENGTH: AS REQUIRED
WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
HOLES: 3/8" DIAMETER, 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 DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.
NOTE: ALL SIGNS TO BE INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.



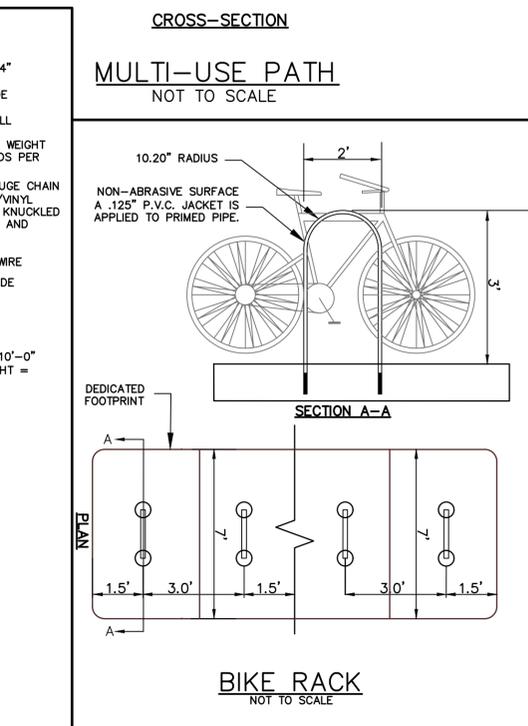
MULTI-USE PATH SIGNS
NOT TO SCALE

NOTES:
1. CORNER POSTS SHALL BE USED AT SHARP BREAKS IN GRADE AND CHANGES IN HORIZONTAL ALIGNMENT OF 15' OR MORE.
2. POSTS, RAILS & BRACES SHALL BE TYPE 1, SCHEDULE 40 BLACK VINYL COATED PIPE.
3. FABRIC TO BE BLACK VINYL COATED.
4. TIE WIRES SHALL BE 9 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO LINE POSTS.
5. TIE WIRES SHALL BE 13 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO RAILS AND BRACES.
6. HOG RING TIES SHALL BE 12-1/2 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO TENSION WIRE.



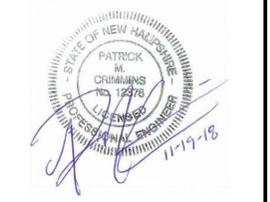
CHAIN LINK FENCE
NOT TO SCALE

NOTES:
1. CORNER POSTS SHALL BE USED AT SHARP BREAKS IN GRADE AND CHANGES IN HORIZONTAL ALIGNMENT OF 15' OR MORE.
2. POSTS, RAILS & BRACES SHALL BE TYPE 1, SCHEDULE 40 BLACK VINYL COATED PIPE.
3. FABRIC TO BE BLACK VINYL COATED.
4. TIE WIRES SHALL BE 9 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO LINE POSTS.
5. TIE WIRES SHALL BE 13 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO RAILS AND BRACES.
6. HOG RING TIES SHALL BE 12-1/2 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO TENSION WIRE.



BIKE RACK
NOT TO SCALE

NOTE:
NON-ABRASIVE SURFACE A .125" P.V.C. JACKET IS APPLIED TO PRIMED PIPE.



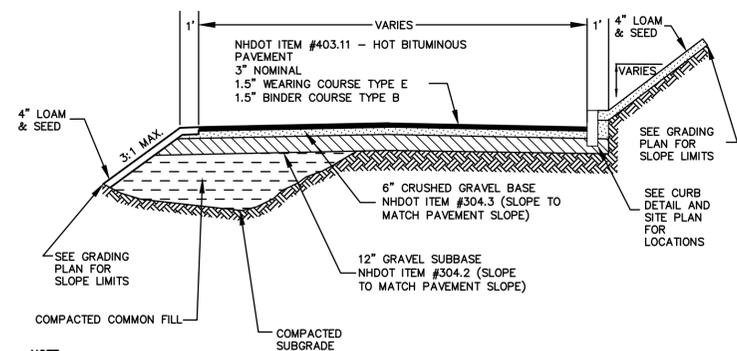
Waterstone Retail Development
Southgate Plaza
Redevelopment

Portsmouth,
New Hampshire

Mark	Date	Description
A	11/19/18	TAC Submission

PROJECT NO: W1725
FILE: W-1725-4-DETAILS.dwg
DRAWN BY: NAH/CML
CHECKED BY: PMC
APPROVED BY: BLM/PMC

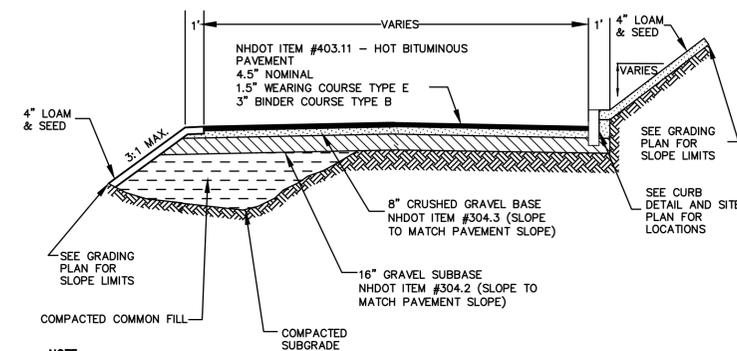
DETAILS SHEET
SCALE: AS SHOWN
C-9



- NOTE:**
- SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 - SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
 - A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.
 - CONTRACTOR SHALL HAVE THE OPTION OF RECLAIMING THE EXISTING PAVEMENT AND REMOVING THE MATERIAL, THEN REUSING THE RECLAIMED MATERIAL AS A PAVEMENT SUBBASE.

STANDARD DUTY PAVEMENT SECTION

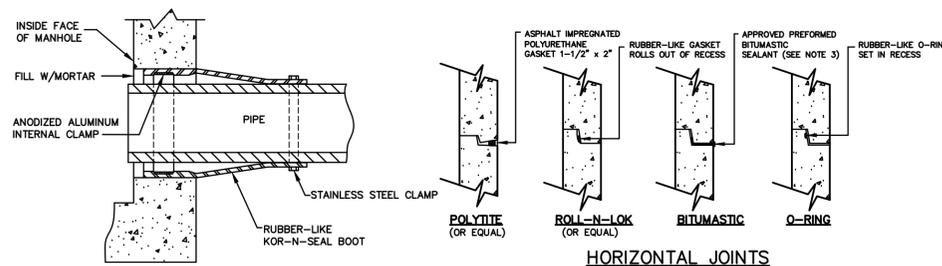
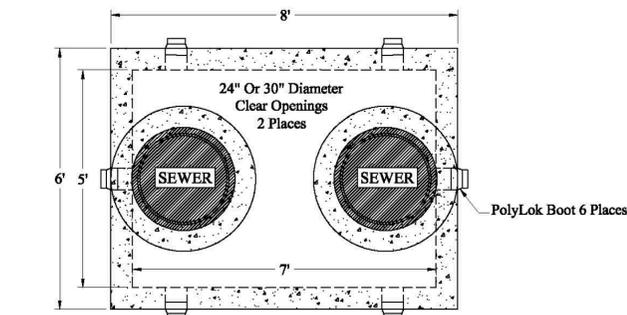
NOT TO SCALE



- NOTE:**
- SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 - SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
 - A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.
 - CONTRACTOR SHALL HAVE THE OPTION OF RECLAIMING THE EXISTING PAVEMENT AND REMOVING THE MATERIAL, THEN REUSING THE RECLAIMED MATERIAL AS A PAVEMENT SUBBASE.

HEAVY DUTY PAVEMENT SECTION

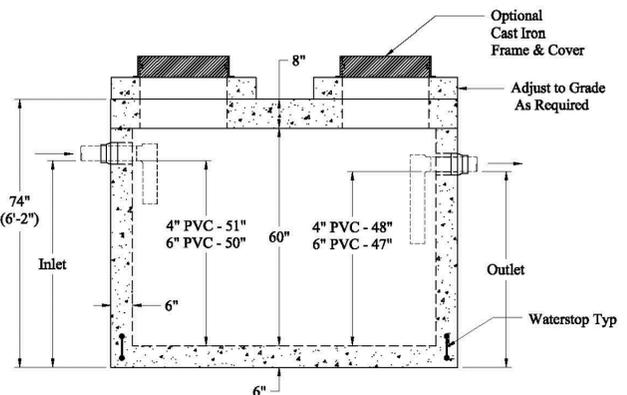
NOT TO SCALE



SEWER MANHOLE JOINTS

NOT TO SCALE

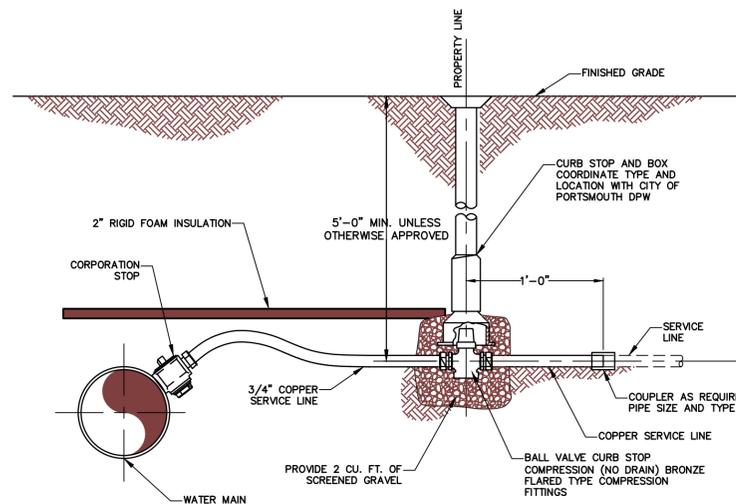
- NOTES:**
- HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF PORTSMOUTH DPW STANDARD AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
 - PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF PORTSMOUTH DPW STANDARD.
 - FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.
 - ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.



- NOTES:**
- STEEL REINFORCEMENT CONFORMS TO LATEST ASTM SPECIFICATIONS: ASTM-A615 GRADE 60 REBAR
 - CONCRETE: FC = 5,000 PSI @ 28 DAYS MINIMUM
 - FLEXIBLE SLEEVES PROVIDED ON ALL PIPE CONNECTIONS
 - BUTYL RUBBER JOINT SEALANT PROVIDED
 - INTERNAL PVC BAFFLES AVAILABLE UPON REQUEST
 - INLET: SHALL PENETRATE AT LEAST 9" BELOW THE LIQUID LEVEL, BUT NOT DEEPER THAN THE OUTLET BAFFLE.
 - OUTLET: SHALL EXTEND BELOW THE SURFACE OF THE LIQUID EQUAL TO 40% OF THE LIQUID DEPTH (19").
 - DESIGN LOADING: AASHTO-HS20-44, ASTM C-890-06
 - DESIGN SPECIFIED AS: ASTM C-1227-08, ASTM C-913-08
 - GREASE TRAP SHALL BE PHOENIX PRECAST OR EQUAL

GREASE TRAP

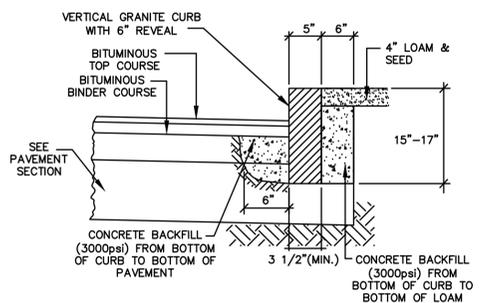
NOT TO SCALE



NOTE: ALL WATER SERVICE CONNECTIONS SHALL CONFORM TO CITY OF PORTSMOUTH STANDARDS.

WATER SERVICE CONNECTION

NOT TO SCALE

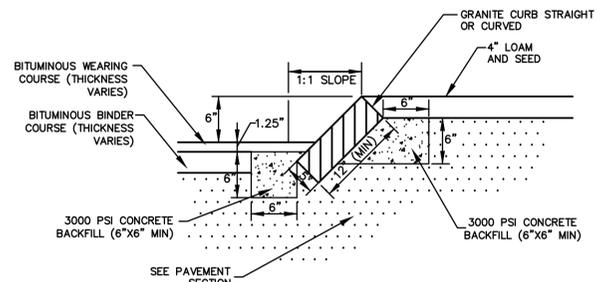


- NOTES:**
- SEE SITE PLAN FOR LIMITS OF CURBING.
 - ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 - MINIMUM LENGTH OF CURB STONES = 3'
 - MAXIMUM LENGTH OF CURB STONES = 10'
 - MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE CHART)
 - ALL RADII 20 FEET AND SMALLER SHALL BE CONSTRUCTED USING CURVED SECTIONS
 - JOINTS BETWEEN STONES SHALL BE MORTARED.

RADIUS	MAX. LENGTH
<20'	USE CURVED CURB
21'	3'
22'-28'	4'
29'-35'	5'
36'-42'	7'
43'-49'	8'
50'-56'	8'
57'-60'	9'
OVER 60'	10'

VERTICAL GRANITE CURB

NOT TO SCALE

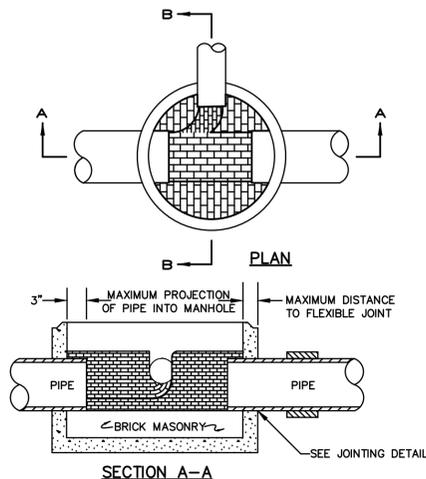


- NOTES:**
- SEE SITE PLAN FOR LIMITS OF CURBING.
 - ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 - MINIMUM LENGTH OF STRAIGHT CURB STONES = 18 INCHES.
 - MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8 FEET.
 - MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES - SEE CHART.
 - JOINTS BETWEEN STONES SHALL BE MORTARED.

RADIUS FOR STONES WITH SQUARE JOINTS	MAXIMUM LENGTH
16'-28'	1'-6"
29'-41'	2'
42'-55'	3'
56'-68'	4'
69'-82'	5'
83'-96'	6'
97'-110'	7'
OVER 110'	8'

SLOPED GRANITE CURB

NOT TO SCALE



SEWER MANHOLE

NOT TO SCALE

- NOTES:**
- INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.
 - CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
 - INVERT BRICKS SHALL BE LAID ON EDGE.
 - BITUMINOUS WATERPROOF COATING TO BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
 - FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 - HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT.
 - BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR 120 LB/SQ. FT. AND CONFORMING TO ASTM C478-06.



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Southgate Plaza Redevelopment

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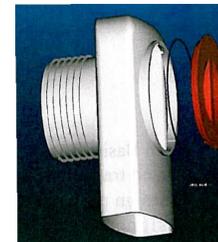
Mark	Date	Description
A	11/19/18	TAC Submission

PROJECT NO: W1725
FILE: W-1725-4-DETAILS.dwg
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APPROVED BY: BLM/PMC

DETAILS SHEET

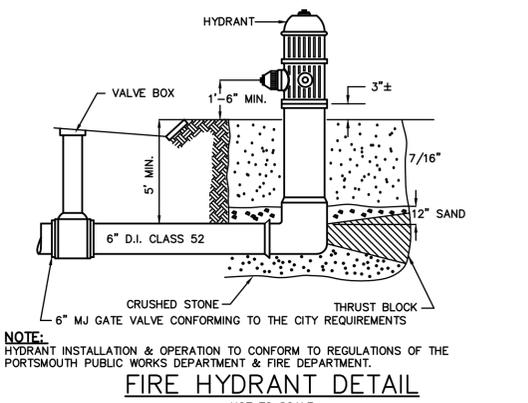
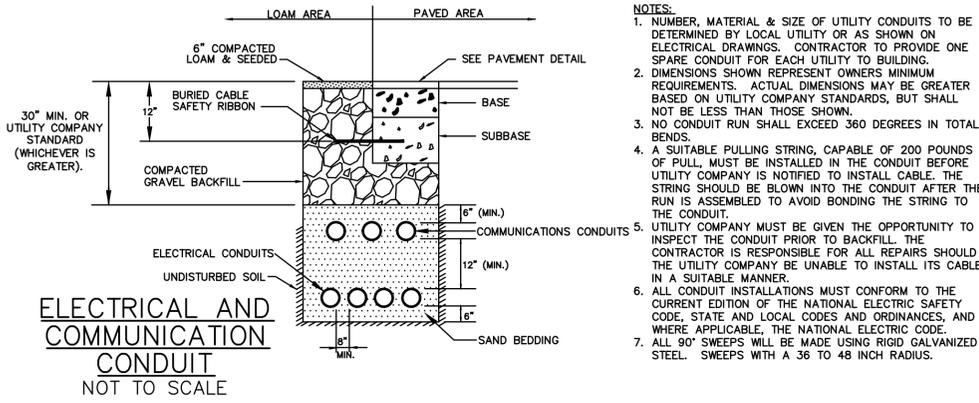
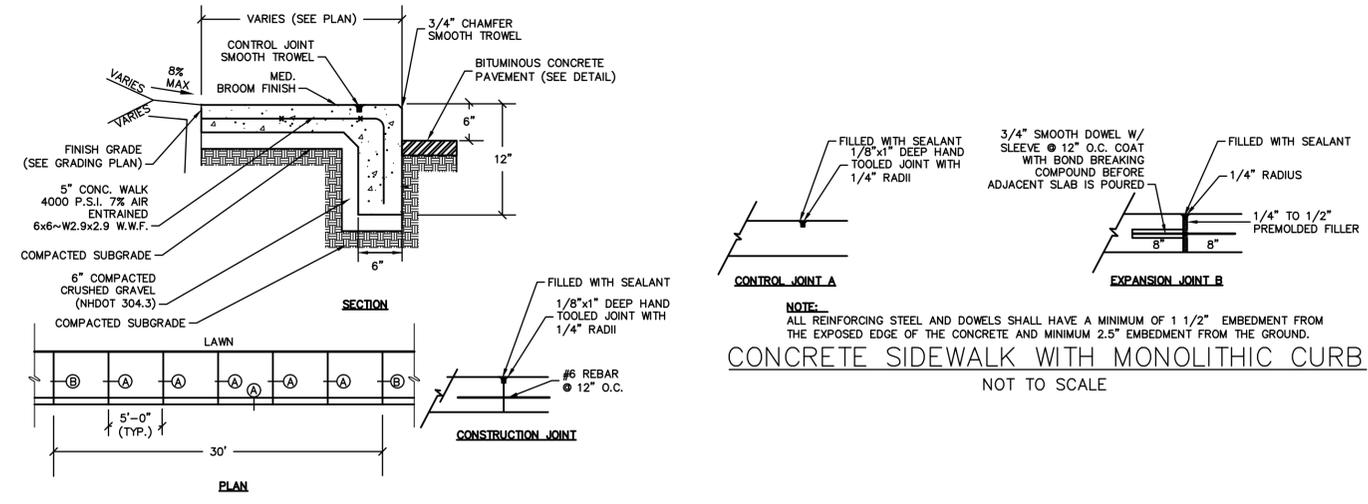
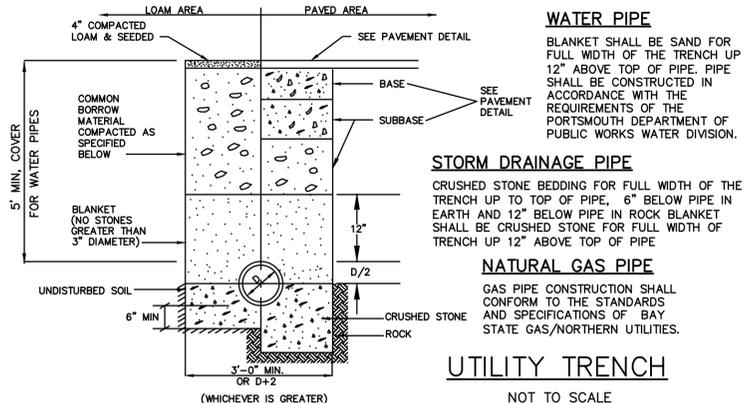
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C-10

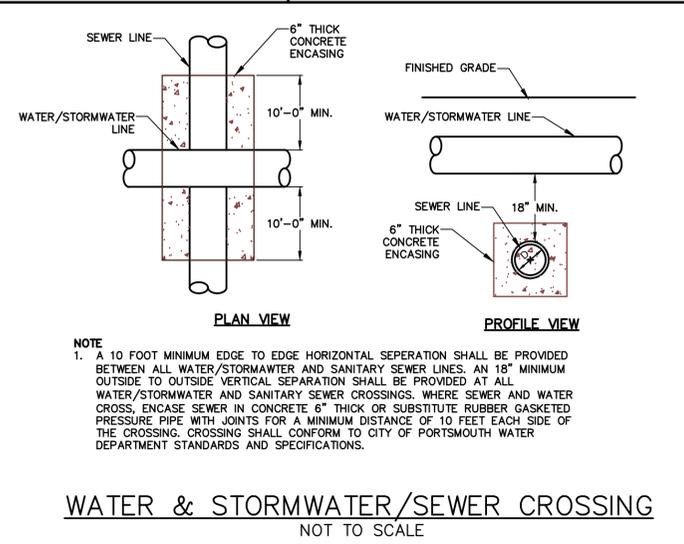
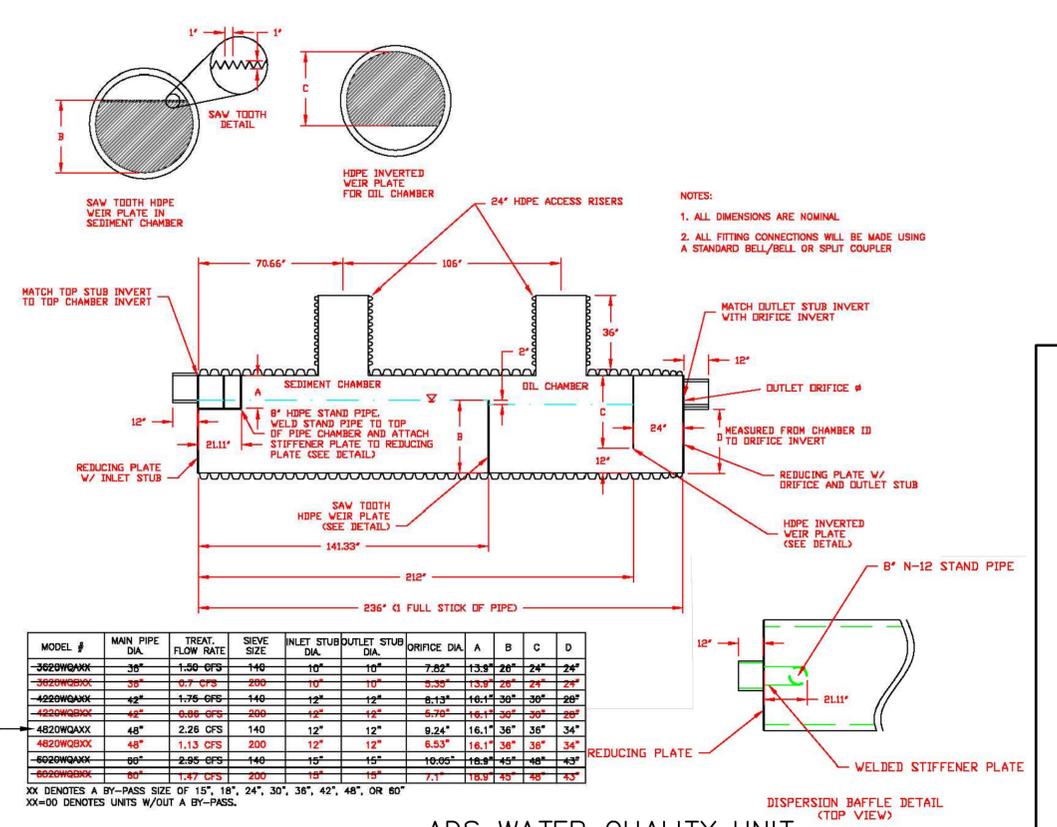
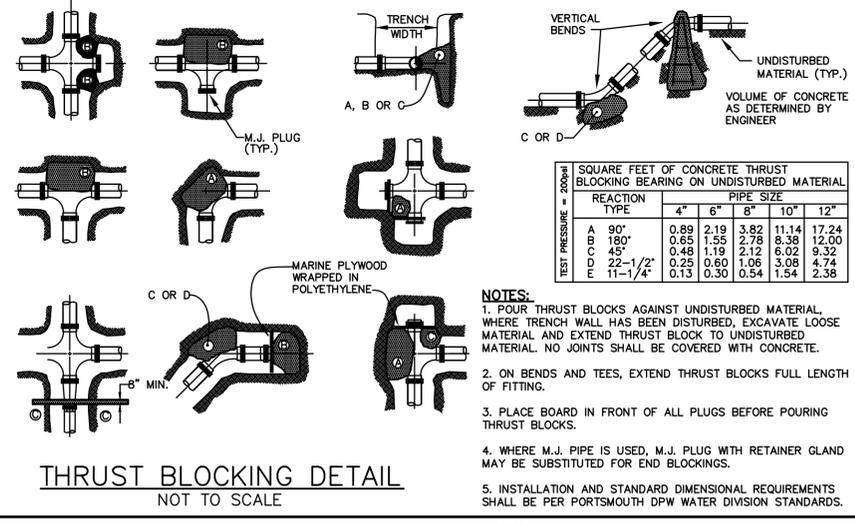
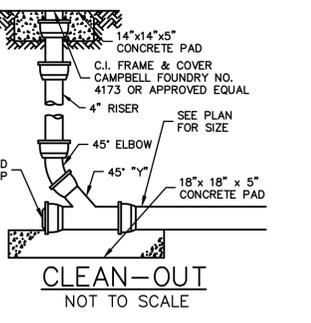
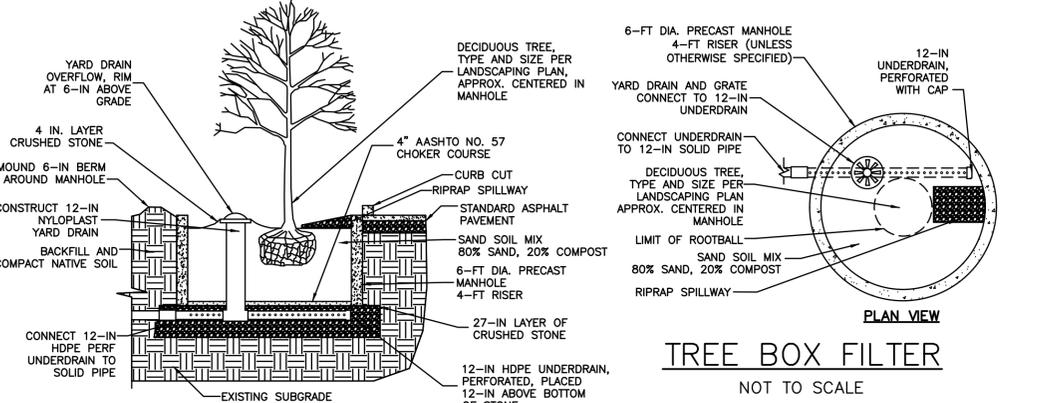


"ELIMINATOR OIL FLOATING DEBRIS TRAP"
NOT TO SCALE

NOTES:
1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY KLEANSTREAM (NO EQUAL)
2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP



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Southgate Plaza Redevelopment
Portsmouth, New Hampshire



FILENAME: J:\W\1725 WATERSTONE PORTSMOUTH, NH SOUTHGATE PLAZA\DWG-CAD\DESIGN\W-1725-4-DETAILS.DWG
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 PLOT DATE: 11/19/2018 11:14 AM

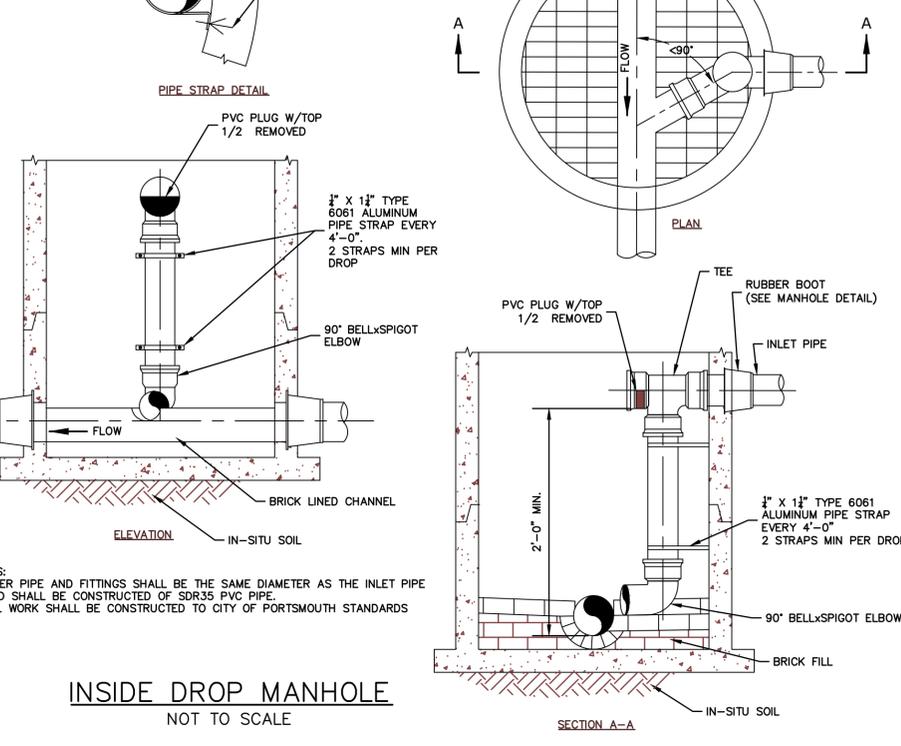
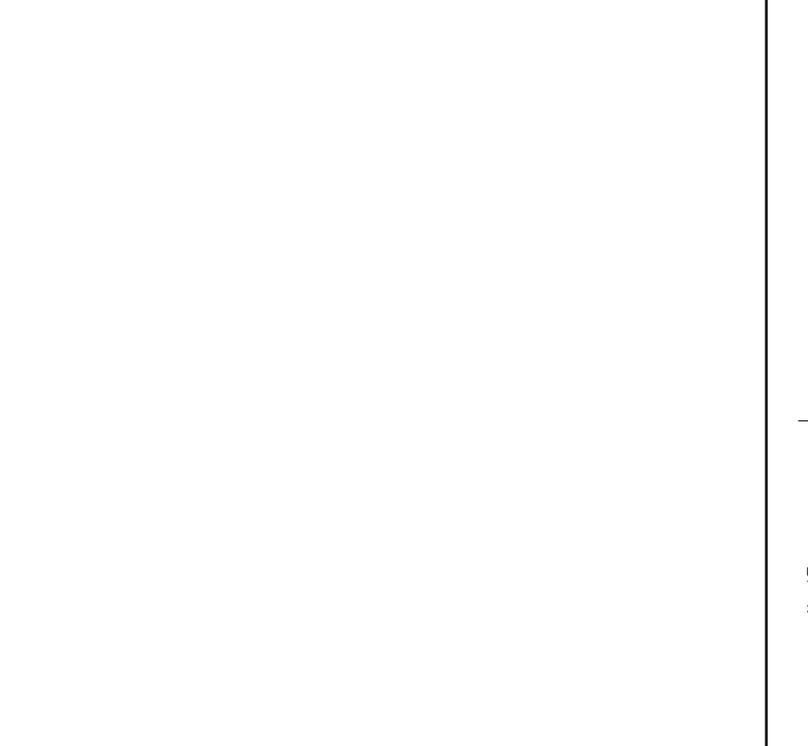
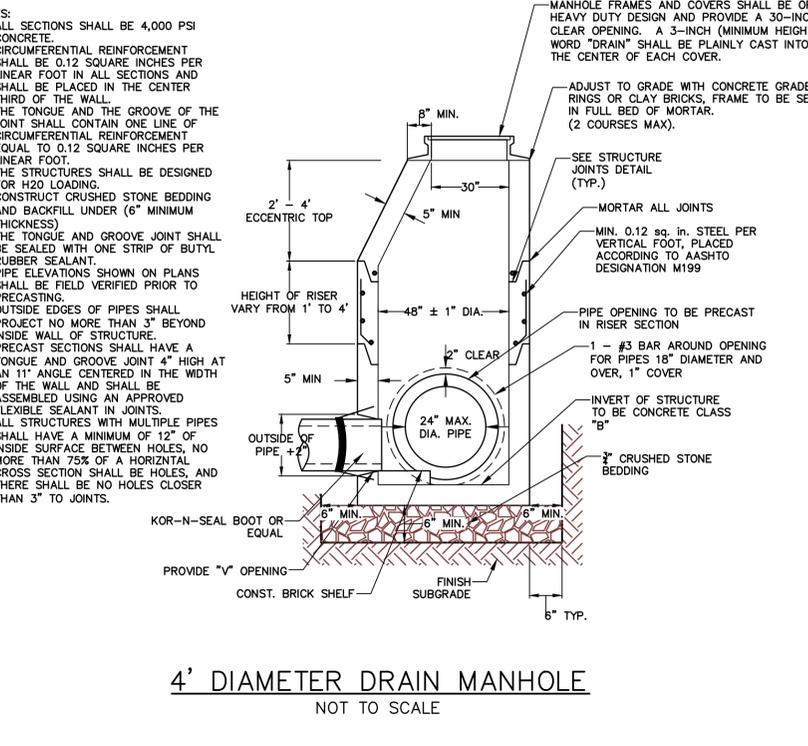
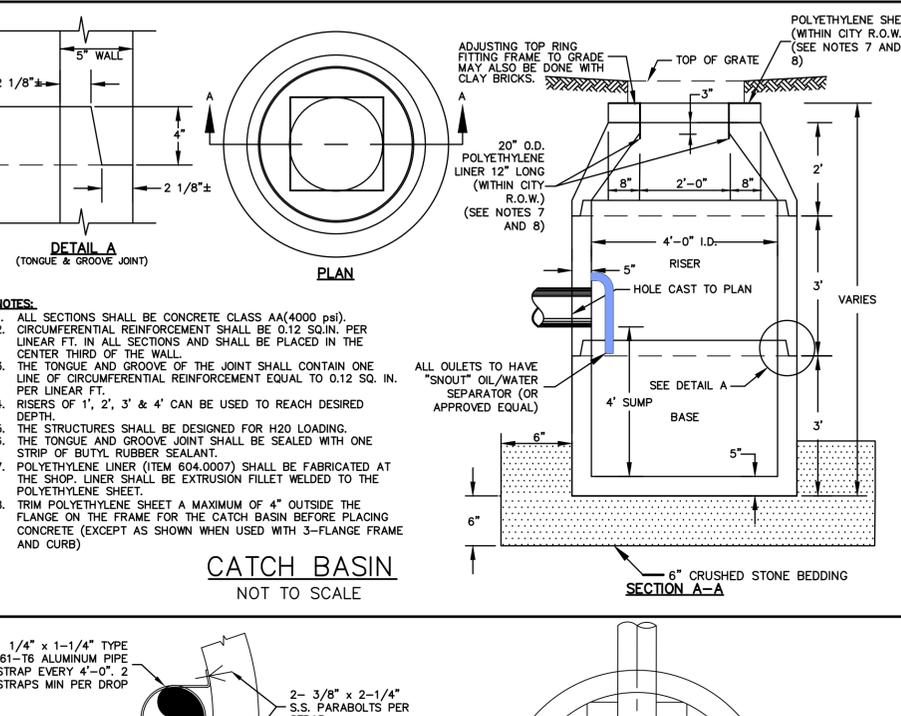
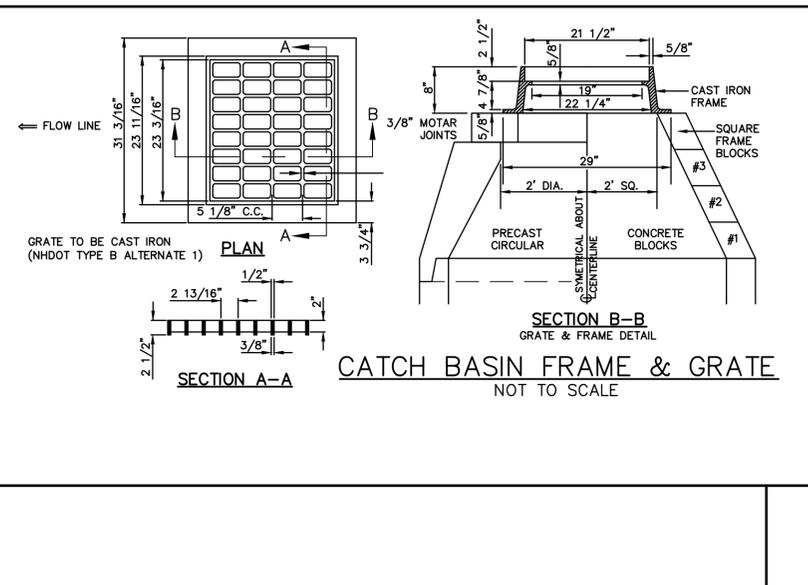
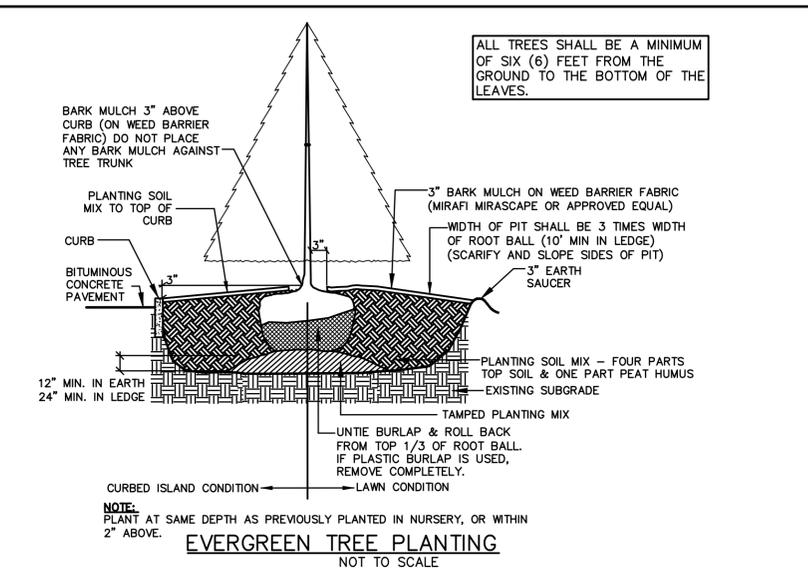
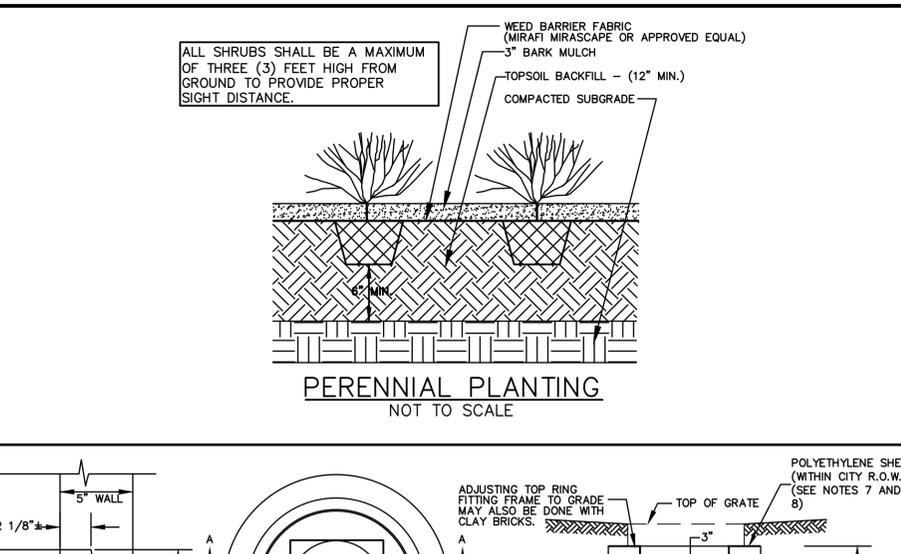
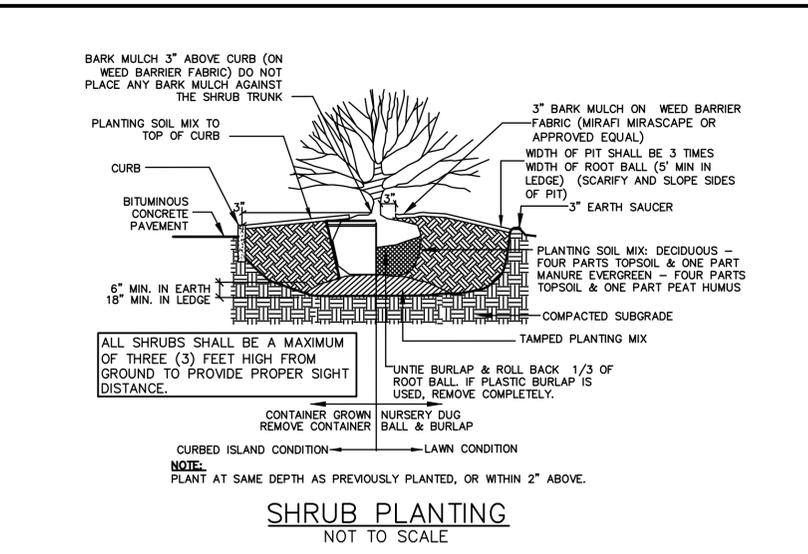
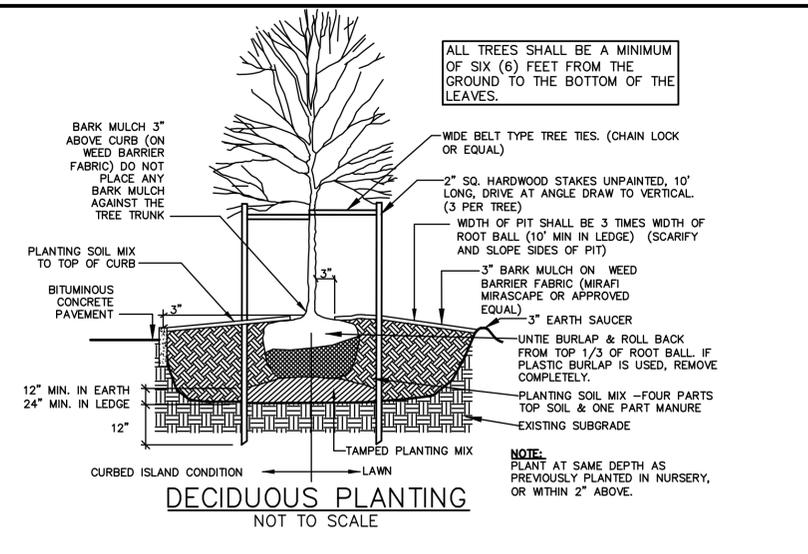
Mark	Date	Description
A	11/19/18	TAC Submission

PROJECT NO: W1725
 FILE: W-1725-4-DETAILS.dwg
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DETAILS SHEET

SCALE: AS SHOWN

C-11



Waterstone Retail Development

Southgate Plaza Redevelopment

Portsmouth, New Hampshire

Mark	Date	Description
A	11/19/18	TAC Submission

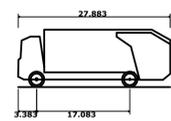
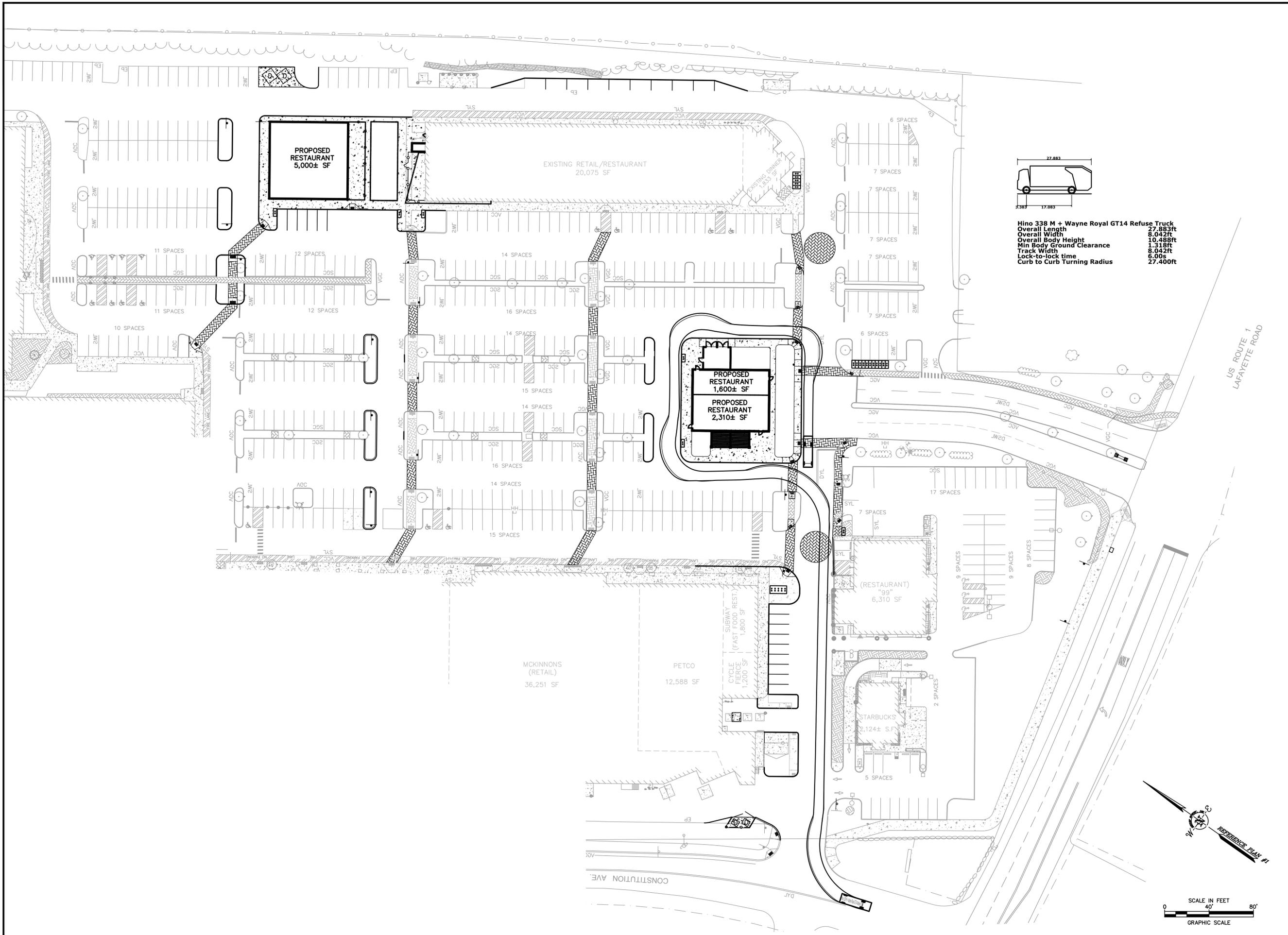
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FILE: W-1725-4-DETAILS.dwg
DRAWN BY: NAH/CML
CHECKED: PMC
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SCALE: AS SHOWN

C-12

FILENAME: J:\W1725 WATERSTONE PORTSMOUTH, NH SOUTHGATE PLAZA\DWG-CAD\DESIGN\W-1725-4-DETAILS.DWG
 SAVE DATE: 11/19/2018 11:07 AM
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Hino 338 M + Wayne Royal GT14 Refuse Truck
 Overall Length 27.883ft
 Overall Width 8.042ft
 Overall Body Height 10.488ft
 Min Body Ground Clearance 1.316ft
 Track Width 8.042ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 27.400ft



Waterstone Retail Development

Southgate Plaza Redevelopment

Portsmouth,
 New Hampshire

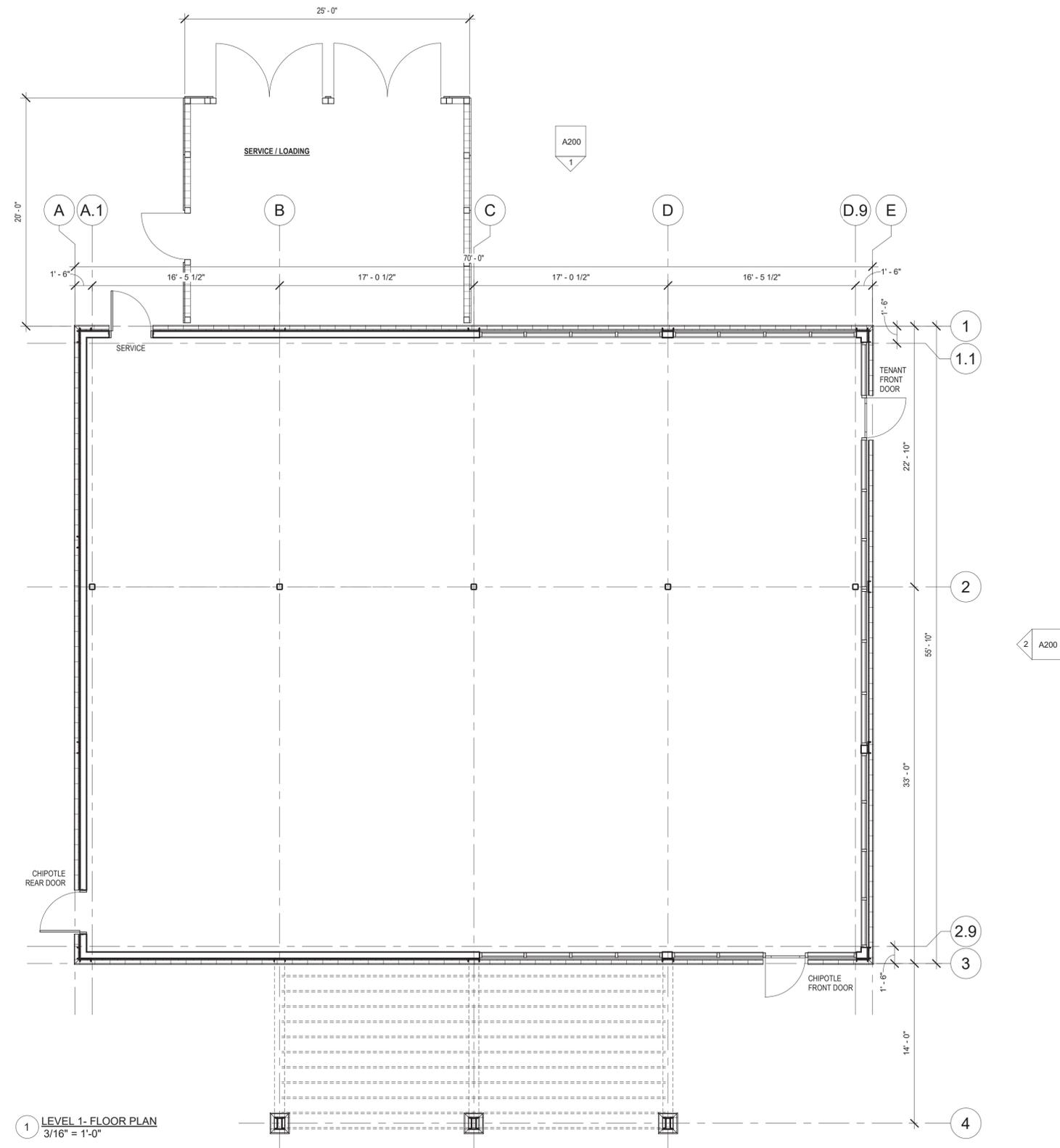
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A	11/19/18	TAC Submission

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PLAZA TRUCK TURNING PLAN

SCALE: AS SHOWN

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FLOOR PLAN LEGEND	
	EXISTING WALLS
	DEMO WALLS
	NEW WALLS
	DOOR & DOOR TAG
	WINDOW & WINDOW TAG
	WALL SECTION NUMBER AND SHEET
	BUILDING SECTION NUMBER AND SHEET
	SOFFIT / CEILING CHANGE OR CABINETS ABOVE
	SPOT ELEVATION
	REFER TO SHEET A500 FOR ASSEMBLY TYPE
	ROOM NAME AND NUMBER
	REVISION



1 LEVEL 1- FLOOR PLAN
3/16" = 1'-0"

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 www.lagrassarchitects.com - Email: JDLAI@AOL.COM

CHIPOTLE
 2454 LAFAYETTE RD, PORTSMOUTH, NH 03801

FLOOR PLAN	
Prepared for:	location: Approver
location:	title
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Mark	Date
Revisions	
Date	06/09/16
Scale	As indicated
Job No.	2823
Sheet No.	

A101

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EXTERIOR ELEVATIONS

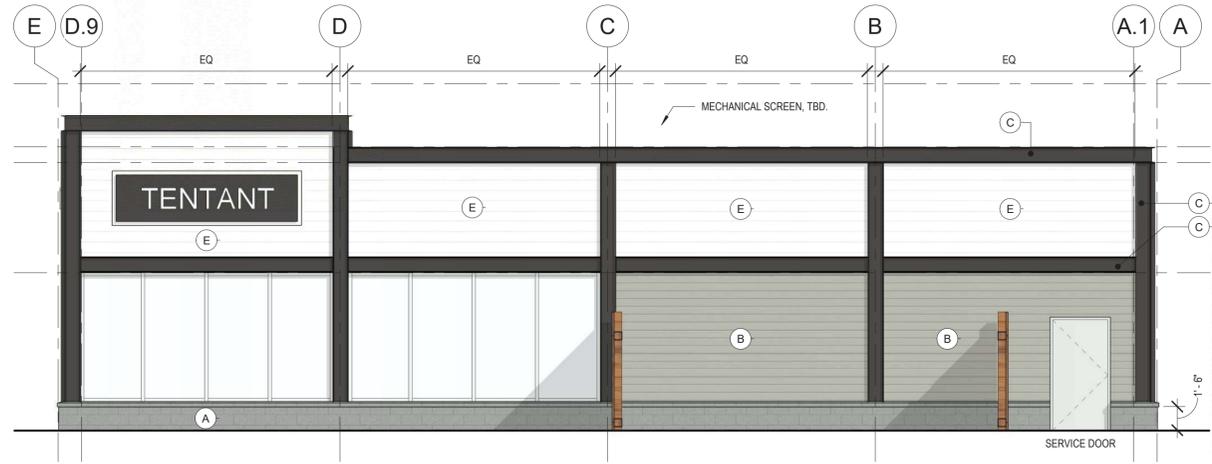
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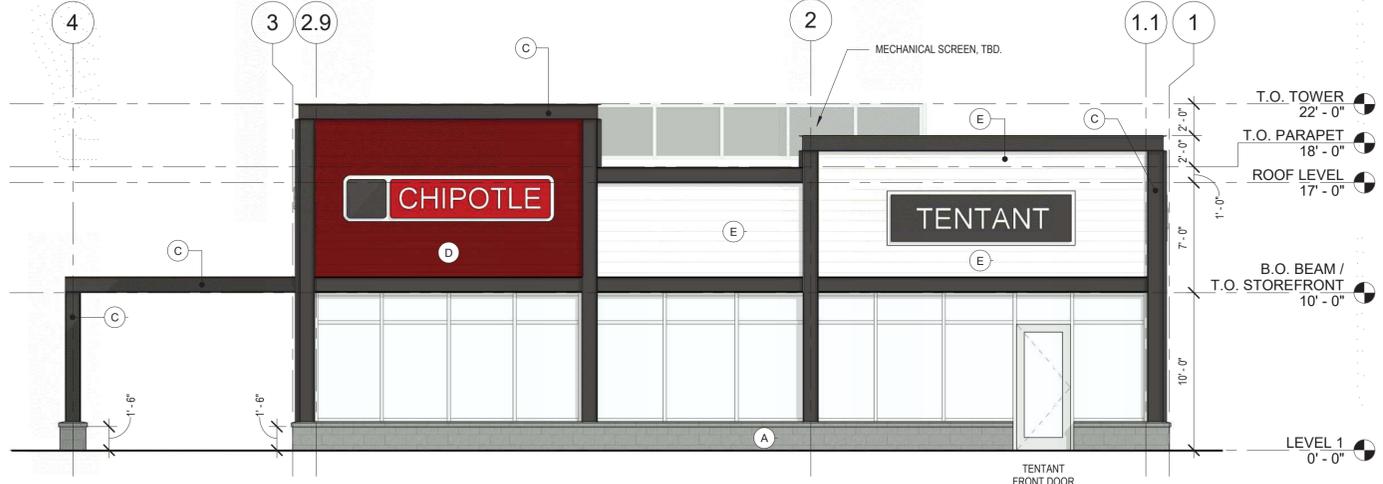
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Revisions	
Date	06/09/16
Scale	3/16" = 1'-0"
Job No.	2823
Sheet No.	

A200

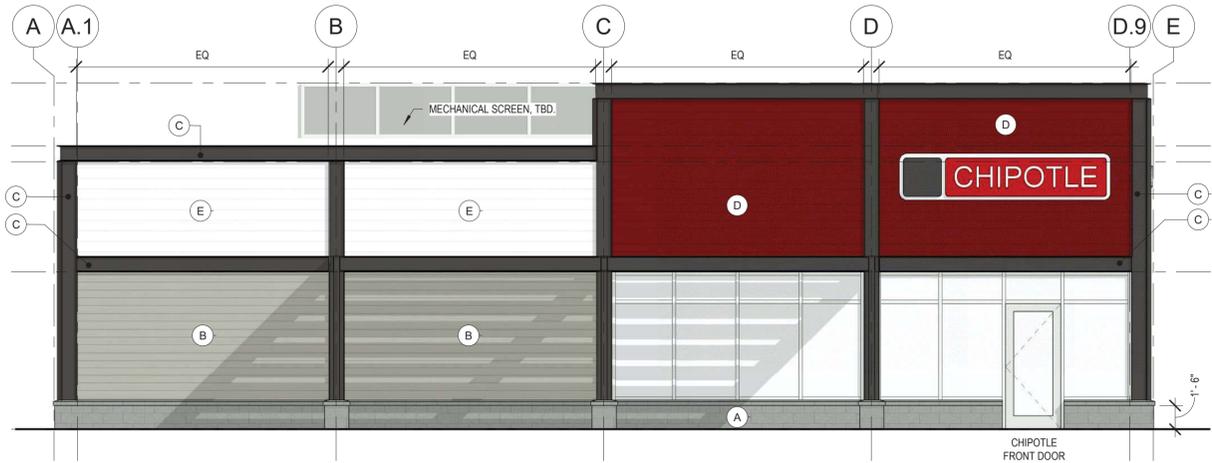
MATERIAL LEGEND	
MARK	Description
A	ARCHITECTURAL MASONRY LIMESTONE BLOCK
B	HARDIE PLANKS, 5" - COLOR GREY / TBD
C	"FORMA" (GFRC) GLASS FIBER REINFORCED CONCRETE - C-CHANNEL
D	HARDIE PLANKS, 5" - COLOR RED / TBD
E	HARDIE PLANK, 8" - COLOR WHITE / TBD
H	T&G WOOD SIDING "IPE"



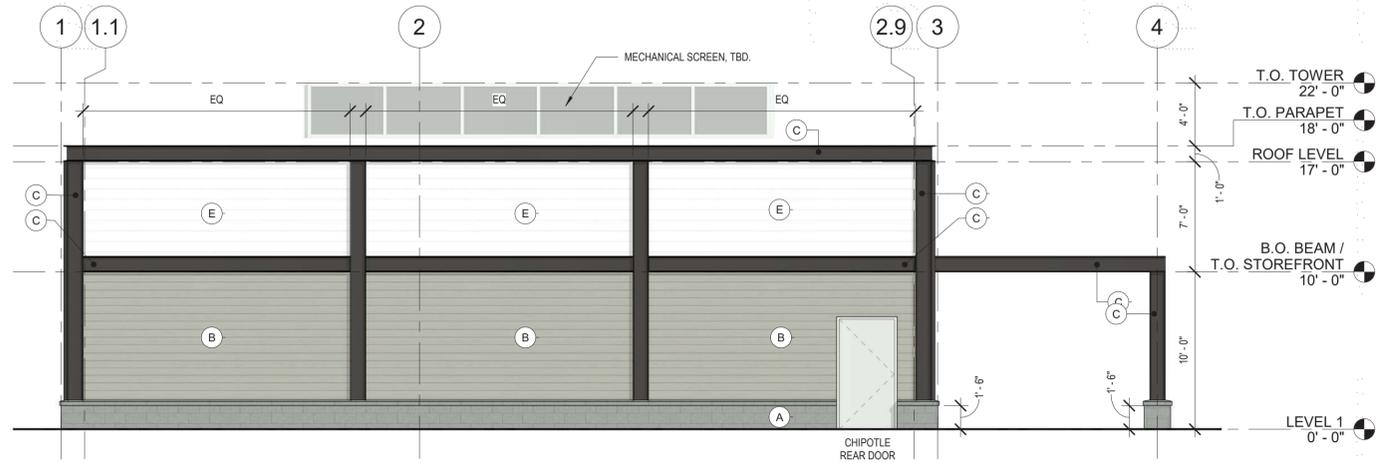
1 NORTH ELEVATION
 3/16" = 1'-0"



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



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



4 WEST ELEVATION
 3/16" = 1'-0"



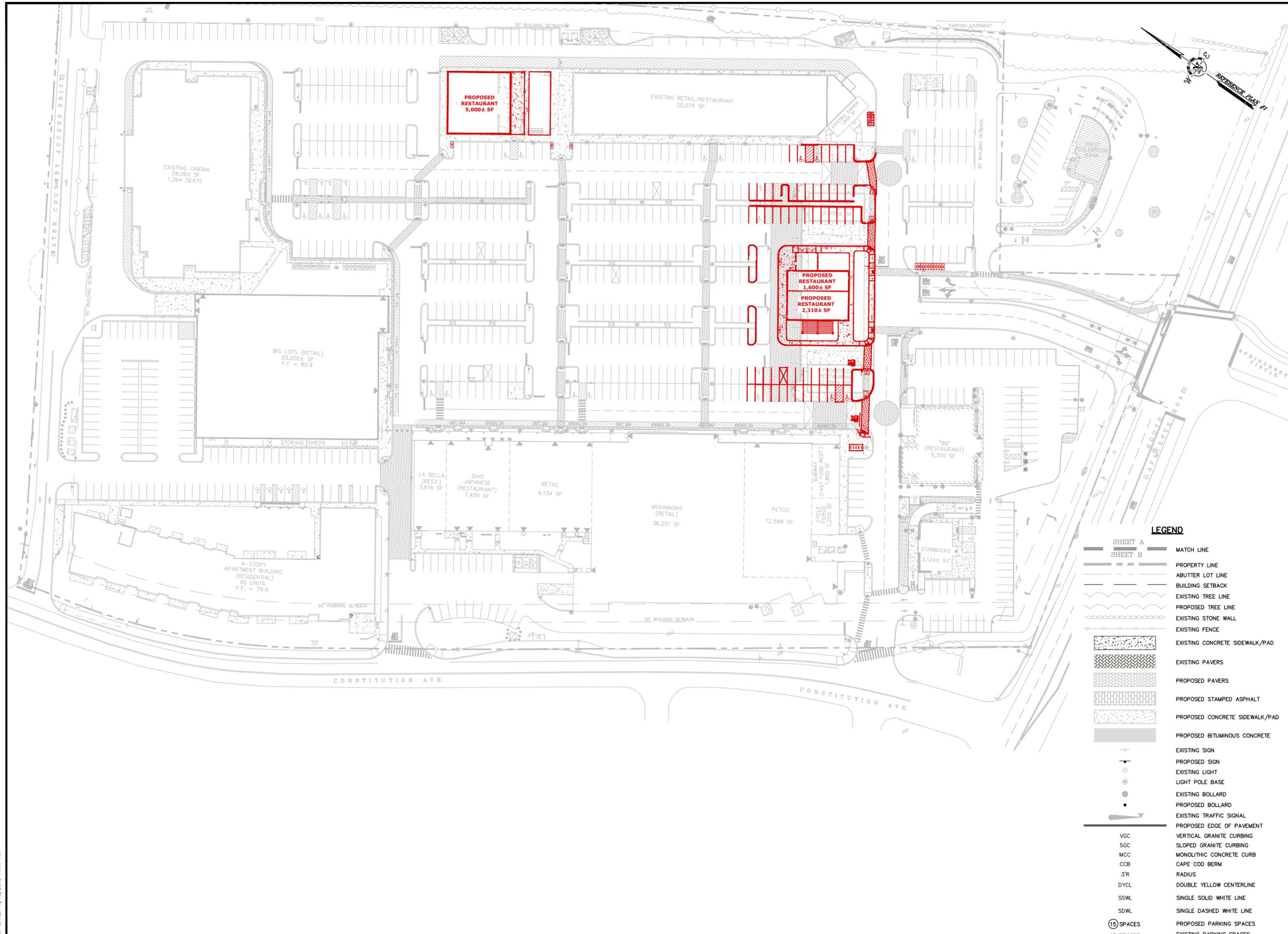
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 Revisions
 Date 03/29/17
 Scale
 Job No. 2823
 Sheet No.

A201



LEGEND

—	SHEET A	---	MATCH LINE
---	SHEET B	---	PROPERTY LINE
---		---	ABUTTER LOT LINE
---		---	BUILDING SETBACK
---		---	EXISTING TREE LINE
---		---	PROPOSED TREE LINE
---		---	EXISTING STONE WALL
---		---	EXISTING FENCE
---		---	EXISTING CONCRETE SIDEWALK/PAD
---		---	EXISTING PAVERS
---		---	PROPOSED PAVERS
---		---	PROPOSED STAMPED ASPHALT
---		---	PROPOSED CONCRETE SIDEWALK/PAD
---		---	PROPOSED BITUMINOUS CONCRETE
---		---	EXISTING SIGN
---		---	PROPOSED SIGN
---		---	EXISTING LIGHT
---		---	LIGHT POLE BASE
---		---	EXISTING BOLLARD
---		---	PROPOSED BOLLARD
---		---	EXISTING TRAFFIC SIGNAL
---		---	PROPOSED EDGE OF PAVEMENT
---		---	VERTICAL GRANITE CURBING
---		---	SLOPED GRANITE CURBING
---		---	MONOLITHIC CONCRETE CURB
---		---	CAPE COD BERM
---		---	RADIUS
---		---	DOUBLE YELLOW CENTERLINE
---		---	SINGLE SOLID WHITE LINE
---		---	SINGLE DASHED WHITE LINE
---		---	PROPOSED PARKING SPACES
---		---	EXISTING PARKING SPACES

Waterstone Retail Development
 Southgate Plaza
 Redevelopment
 Portsmouth,
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DRAWN BY: NAH/CML		
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OVERALL SITE PLAN AMENDMENT EXHIBIT		
SCALE: AS SHOWN		
1 OF 1		

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