LONGMEADOW ROAD EXTENSION

LONGMEADOW ROAD AND LANG ROAD AT US ROUTE 1
PORTSMOUTH, NEW HAMPSHIRE

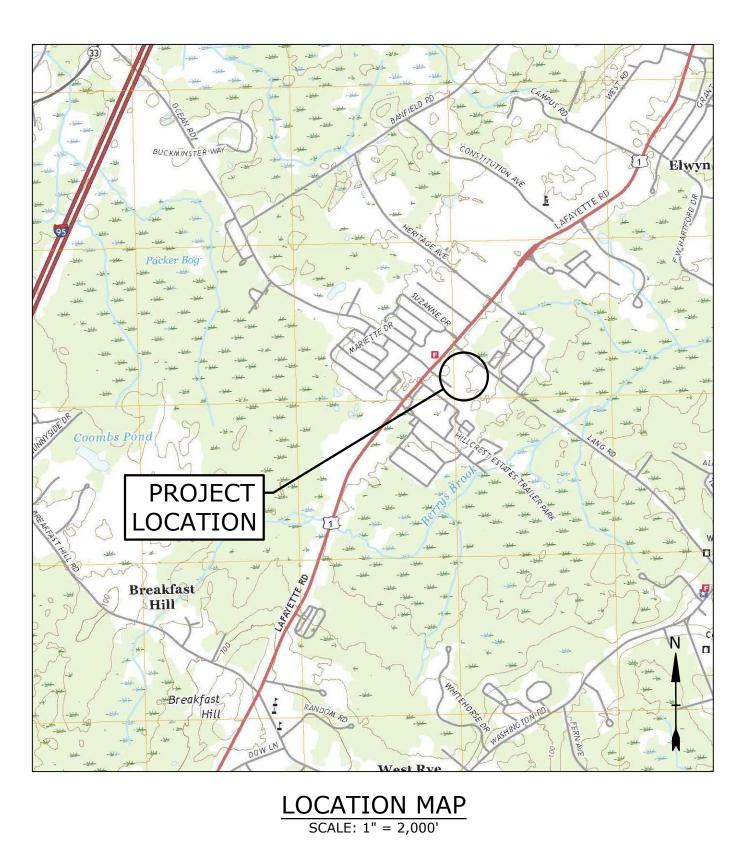
PROJECT NO: P-0714-005

PORTSMOUTH #42350, X-A004(818)

JANUARY 11, 2019

LAST REVISED: OCTOBER 4, 2021

		LIST OF DRAWINGS	
S	SHEET NO.	SHEET TITLE	LAST REVISE
		COVER SHEET	10/04/2021
	1 OF 3	SUBDIVISION PLAN	2/11/2021
	2 OF 3	SUBDIVISION PLAN	2/11/2021
	3 OF 3	SUBDIVISION PLAN	2/11/2021
	C-100	GENERAL NOTES, LEGEND & ABBREVIATIONS	1/29/2021
	C-101	EXISTING CONDITIONS PLAN	1/29/2021
	C-102	DEMOLITION PLAN	1/29/2021
	C-103	OVERALL ROADWAY PLAN	10/04/2021
	C-103.1	PROPOSED ROADWAY PLAN	10/04/2021
	C-104	GRADING, DRAINAGE, & EROSION CONTROL PLAN	10/04/2021
	C-105	UTILITIES PLAN	7/21/2021
	C-106	LONGMEADOW ROAD PLAN & PROFILE	10/04/2021
	C-107	LANG ROAD EXTENSION PLAN & PROFILE	10/04/2021
	C-108	LANG ROAD EXTENSION PLAN & PROFILE	10/04/2021
Š	C-109	LANG ROAD PLAN & PROFILE	1/29/2021
	C-110	LANG ROAD SIGHT DISTANCE PLAN & PROFILE	1/29/2021
	C-201	SIGN LOCATION PLAN	10/04/2021
	C-501	EROSION CONTROL NOTES & DETAILS SHEET	4/21/2021
	C-502	DETAILS SHEET	10/04/2021
	C-503	DETAILS SHEET	10/04/2021
	C-504	DETAILS SHEET	10/04/2021
	C-505	DETAILS SHEET	1/29/2021
	C-506	DETAILS SHEET	4/21/2021
	C-507	DETAILS SHEET	8/11/2021
	1	STATE OF NH - ROUTE MARKER POST ASSEMBLY DETAIL (2 GROUP)	8/11/2021
	1	STATE OF NH - ROUTE MARKER POST ASSEMBLY DETAIL (3 GROUP)	8/11/2021



PREPARED BY:

Tighe&Bond

Engineers | Environmental Specialists
177 Corporate Drive
Portsmouth, NH 03801



APPLICANT:

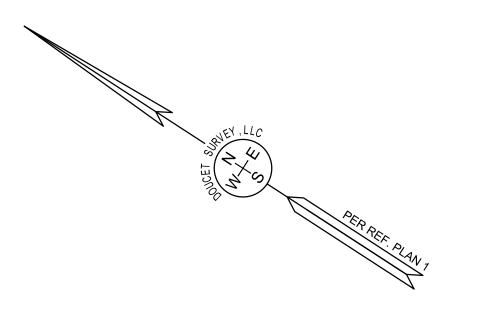
City Of Portsmouth 1 Junkins Ave, Portsmouth, NH 03801

OWNER:

Service Credit Union 3003 Lafayette Road, Portsmouth, NH 03801 **SURVEYOR:**

Doucet Survey, Inc. 102 Kent Place Newmarket, NH 03857

FINAL DESIGN PLANS - ADDENDUM 1
COMPLETE SET 26 SHEETS



ADDITIONAL ABUTTERS

TAX MAP 291 LOT 5 MJD REAL ESTATE HOLDINGS LLC 200 HOLLEDER PKWY ROCHESTER, NH 14615 R.C.R.D. BK. 4974 PG. 2606

TAX MAP 291 LOT 6 KATHERINE L. NADEAU FAMILY TRUST 2015 KATHERINE NADEAU TRUSTEE 11 STRATHAM LANE GREENLAND, NH 03840 R.C.R.D. BK. 5647 PG. 2275

TAX MAP 292 LOT 13 MCK REALTY TRUST KIM M B & CJ TRUSTEES 70 SOUTH ROAD NORTH HAMPTON, NH 03862 R.C.R.D. BK. 5289 PG. 1606

TAX MAP 292 LOT 152 BURSAWS PANTRY LLC 3020 LAFAYETTE RD. PORTSMOUTH, NH 03801 R.C.R.D. BK. 3989 PG. 2949

	LINE TABLE	<u> </u>		LINE TABLE							
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE						
L1	S31°28'20"E	48.92'	L10	N08°01'49"E	56.79'						
L2	S32*36'05"E	113.31'	L11	N06°03'30"E	72.39'						
L3	S32*35'53"E	87.54'	L13	S57*43'18"W	<i>53.10</i> ′						
L4	S33°40'09"E	185.58	L14	N28°03'40"W	14.90'						
L7	N29°56'57"W	43.01'	L15	N61°28'40"E	76.18'						
L8	N56°04'49"E	60.00'	L16	S57°50'04"W	6.93'						
L9	N24°22'34"W	67.89'	L17	S58°49'05"W	120.88'						

			CURVE TABLE		
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	29.25'	20.00'	083*48'25"	S75°49'23"E	26.72'
C2	176.73'	363.00'	027*53'42"	N76°13'15"E	174.99'
C3	22.02'	15.00'	084°06'37"	N48*06'48"E	20.10'
C4	90.47'	188.00'	027'34'14"	N07°29'03"W	89.60'
C5	444.72'	303.00'	084°05'41"	N75°43'00"W	405.87*

6. HORIZONTAL DATUM BASED ON PLAN REFERENCE 1

- 7. VERTICAL DATUM IS BASED ON NGVD 29 (SURVEY DISK "GPS ROBE, 379-0870").
- 8. FLOOD HAZARD ZONE: "X" & "A", PER FIRM MAP 33015C0270E, DATED 5/17/05.
- 10. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF (THE ROAD(S)) AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE ROCKINGHAM REGISTRY OF
- 12. 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
- 13. BUILDING LOCATION, PARKING LOT AND SIDEWALKS ON SERVICE CREDIT UNION SITE ARE BASED ON DATA PROVIDED BY TIGHE & BOND. THE LOCATIONS THEREOF WERE NOT FIELD VERIFIED BY DOUCET SURVEY UNLESS FALLING WITHIN THE SPECIFIED TOPOGRAPHIC SURVEY LIMITS.
- 1977. R.C.R.D. BOOK 2307, PAGE 1852.

REFERENCE PLANS:

- 1. "TOPOGRAPHIC PLAN FOR SERVICE CREDIT UNION OF 2995 LAYAFAYETTE ROAD/US ROUTE 1, PORTSMOUTH, NEW HAMPSHIRE" DATED JANUARY 8, 2010 BY DOUCET SURVEY, INC.
- 2. "LOT LINE RELOCATION PLAN FOR RALPH'S TRUCK SALES, INC., ET AL" DATED AUGUST
- 26, 1999 BY MILLETTE, SPRAGUE & COLWELL, INC. R.C.R.D. PLAN D-27623. 3. "EASEMENT PLAN FOR RALPH'S TRUCK SALES INC., SIEGEL LIMITED PARTNERSHIP OCEAN CASTLE LIMITED PARTNERSHIP, AND LANG + LONG MEADOW DEVELOPMENT LLC, LANG ROAD AND LONG MEADOW ROAD, COUNTY OF ROCKINGHAM, PORTSMOUTH, NH" DATED AUGUST 26, 2003 AND REVISED THROUGH 7/08/04 BY MILLETTE, SPRAGUE &
- 4. "PLAN OF PORTSMOUTH FG-F-001(5) P-3844" DATED 4-13-84. R.C.R.D. PLAN D-17184. TAKINGS ALONG THE SUBJECT PREMISES ARE PER R.C.R.D. BK. 2592 PG. 213 & BK. 2908 PG. 014.
- 5. "SUBDIVISION PLAN FOR RALPH'S TRUCK SALES, INC. 2995 LAFAYETTE ROAD, COUNTY OF ROCKINGHAM, PORTSMOUTH, NH" DATED JANUARY 14, 1987 WITH A REVISION OF 4/7/97 BY RICHARD P. MILLETTE AND ASSOCIATES. R.C.R.D. PLAN D-25389.
- 6. "SUBDIVISION OF LAND PORTSMOUTH, NH FOR LONGMEADOW, INC." DATED DECEMBER 1976 BY JOHN W. DURGIN. R.C.R.D. PLAN D-7743.
- 7. "BOUNDARY PLAN FOR THE CITY OF PORTSMOUTH OF TAX MAP 291 LOT 1 & LOT 1-1 LAFAYETTE ROAD (US ROUTE 1), LONGMEADOW ROAD & LANG ROAD PORTSMOUTH, NEW HAMPSHIRE" DATED SEPTEMBER 6, 2018 BY DOUCET SURVEY, INC.

JOHN KAISER ohn Kaiser 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.

20'X15' EASEMENT TO N.E.T.&T (SEE R.C.R.D. 2471-1415 & REF. PLAN 4) (300 SQ. FT.)

> 10' SLOPE/WIDENING EASEMENT PER REF. PLAN 3. DESCRIPTION

THE CITY RIGHT OF WAY)

BE ABANDONED

- 50' LANDSCAPE BUFFER EASEMENT

BENEFITING LOT 1-1 (SEE R.C.R.D.

PROPOSED RIGHT OF WAY

4322-2025 & REF. PLAN 3)

(TO BE ABANDONED)

78,775 Sq. Ft.

1.81 Acres

30' DRAINAGE EASEMENT

(SEE R.C.R.D. 2592-213

└─1-1/2" I.P.F. DOWN 3"

(12,766 SQ. FT.)

50' LANDSCAPE BUFFER EASEMENT

BENEFITING LOT 1-1 (SEE R.C.R.D.

4322-2025 & REF. PLAN 3)

& REF. PLAN 3

(55,066 SQ. FT.)

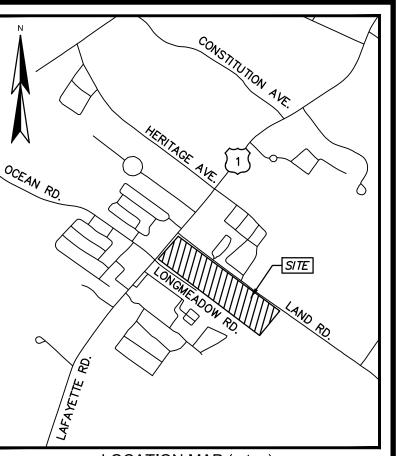
(ZONE LINE)

PER R.C.R.D. 4322-2032 DIFFERS

(TO BE ABANDONED IN FAVOR OF



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.



LOCATION MAP (n.t.s.)

<u>LEGEND</u>
LOT LINE
—— — — LOT LINE TO BE ABANDONED
— — EXISTING EASEMENT LINE
— — — — — PROPOSED EASEMENT LINE
—— — — APPROXIMATE ABUTTERS LOT LINE
STONE WALL
REMNANT STONE WALL
— · · · — EDGE OF WETLAND
EDGE OF WATER
STREAM
<u>₩</u> WETLAND AREA

UTILITY POLE

BOUND FOUND DRILL HOLE IRON PIPE/ROD FOUND 0 GRAN. GRANITE CONC. CONCRETE BND. FND. BOUND FOUND

D.H.F. DRILL HOLE FOUND D.H.S. DRILL HOLE SET I.P.F. IRON PIPE FOUND

5/8" REBAR W/ ID CAP OR OTHER SUITABLE MONUMENT TO BE SET



SUBDIVISION PLAN

SERVICE FEDERAL CREDIT UNION (TAX MAP 291 LOT 1 & LOT 1-1)

FOR THE CITY OF PORTSMOUTH

LAFAYETTE ROAD (US ROUTE 1), LONGMEADOW ROAD & LANG ROAD PORTSMOUTH, NEW HAMPSHIRE

3	02/11/21	ISSUE MYLAR	M.T.L.
2	11/04/20	ADD ADDITIONAL EASEMENTS	M.T.L.
1	03/15/19	ADD PROPOSED DRAINAGE EASEMENT B	M.T.L.
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.T.L.	DATE: JANUARY 10, 2019
CHECKED BY:	J.F.K.	5539B DRAWING NO.:
JOB NO.:	5539	1 3 SHEET OF



Serving Your Professional Surveying & Mapping Needs 102 Kent Place, Newmarket, NH 03857 (603) 659-6560 2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060 10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005 http://www.doucetsurvey.com

NOTES: REFERENCE: TAX MAP 291, LOT 1 & LOT 1-1 LAFAYETTE ROAD

PORTSMOUTH, NH 2. TOTAL PARCEL AREA PRIOR TO SUBDIVISION: TAX MAP 291 LOT 1 = 764,798 SQ. FT. OR 17.56 AC.

TAX MAP 291 LOT 1-1 = 1,179,324 SQ. FT. OR 27.07 AC. PROPOSED PARCEL AREAS:

TAX MAP 291 LOT 1 = 626,374 SQ. FT. OR 14.40 AC. TAX MAP 291 LOT 1-1 = 1,163,825 SQ. FT. OR 26.72 AC. TAX MAP 291 LOT 1-2 = 74,148 SQ. FT. OR 1.70 AC. = 78,775 SQ. FT. OR 1.81 AC. RIGHT OF WAY

3. OWNER OF RECORD: SERVICE CREDIT UNION 3003 LAFAYETTE ROAD PORTSMOUTH, NH 03801 R.C.R.D. BK. 4932 PG. 2469 (LOT 1) R.C.R.D. BK. 5258 PG. 349 (LOT 1) R.C.R.D. BK. 5423 PG. 1976 (LOT 1-1)

4. FIELD SURVEY PERFORMED BY S.N.F. & L.P.S. DURING JUNE & JULY 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.

5. MANMADE AND NATURAL JURISDICTIONAL BOUNDARIES WERE DELINEATED BY MARC JACOBS, CERTIFIED WETLAND SCIENTISTS NUMBER 090, IN NOVEMBER 2015 ACCORDING TO THE STANDARD OF THE US ARMY CORPS OF ENGINEERS - WETLAND DELINEATION MANUAL TECHNICAL REPORT T-87-1. JANUARY 1987: THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012; NH RSA 482-A:; THE CODE OF ADMINISTRATIVE RULES, NH DEPARTMENT OF ENVIRONMENTAL SERVICES-WETLANDS BUREAU - CHAPTER ENV-WT 100-900; AND ARTICLE 10, SECTION 10.1010 OF THE PORTSMOUTH ZONING ORDINANCE. PREDOMINANT HYDRIC SOILS WERE IDENTIFIED UTILIZING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004 AND THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7, 2010. THE INDICATOR STATUS OF HYDROPHYTIC VEGETATION WAS DETERMINED ACCORDING TO THE U.S. ARMY CORPS OF ENIGINEERS - NORTHCENTRAL AND NORTHEAST 2014 REGIONAL WETLAND PLANT LIST. COPIES OF SITE PLANS DEPICTING THE WETLAND DELINEATION WHICH HAVE BEEN REVIEWED BY THE WETLAND SCIENTIST ARE INDIVIDUALLY STAMPED, SIGNED AND DATED.

3/4" SMOOTH ROD FLUSH 🝳

TAX MAP 286 LOT 23

GIBBS OIL COMPANY

LIMITED PARTNERSHIPS

LYNNFIELD, MA 01940

R.C.R.D. BK. 3381 PG. 576

SERVICE CREDIT

UNION BUILDING

SLOPE EASEMENT TO NHDOT

PER 2908-014, SHOWN ON

-6" X 6" CONC. BND. FND.

W/ D.H. DOWN 2" NHHB

-6" X 6" CONC. BND. FND.

W/ D.H. DOWN 2" NHHB

TAX MAP 291 LOT 6

4" X 4" CONC. BND. FND.

W/ D.H. UP 2"

REF. PLAN 4 (1,002 SQ. FT.)

−6" X 6" CONC. BND. FND.

W/ D.H. DOWN 8" NHHB

TAX MAP 291 LOT 5

`*№33*55'11"W—*

5/8" RÈBAR FLUSH—

TAX MAP 291 LOT 4

40 LONGMEADOW ROÁD

ZONE-G1

ZONE-GA/MH

PORTSMOUTH, NH 03801 R.C.R.D. BK. 3435 PG. 1686

FORTY LONG MEADOW/PORTSMOUTH L

LONGMEADOW ROAD (PAVED-PUBLIC)

6 KIMBALL LANE

TAX MAP 286 LOT 22A

CITY OF PORTSMOUTH

R.C.R.D. BK. 4923 PG. 639

S31°28'20"E 837.85'

EXISTING TAX MAP 291 LOT 1

764,683 Sq. Ft.

17.55 Acres

PROPOSED TAX MAP 291 LOT 1

627,259 Sq. Ft.

14.40 Acres

1 JUNKINS AVE.

3/4" REBAR UP 4"

PORTSMOUTH AVE.

TAX MAP 286 LOT 24

CAMBRIDGE, MA 02138

LANG ROAD (PAVED-PUBLIC)

60' ACCESS & UTILITY EASEMENT

BENEFITING LOT 1-1 (SEE R.C.R.D.

TO BE ABANDONED IN FAVOR OF

N33°55'11"W

5/8" REBAR FLUSH-

W/CAP MILLETTE

4322-2027 & REF. PLAN 3)

THE CITY RIGHT OF WAY)

400.95

N33°55'11"W

N32°58'10"W_

DESFOSSES AVENUE

TAX MAP 291 LOT 7

72 SOUTH BROADWAY

R.C.R.D. BK. 5931 PG. 311

SALEM, NH 03079

COLWELL, INC. . R.C.R.D. PLAN D-31845.

SALEM MANUFACTURED HOMES LLC

PROPOSED

74,148 Sq. Ft.

1.70 Acres

TAX MAP 291 LOT 1-2

R.C.R.D. BK. 5934 PG. 837

ARBOR VIEW & THE PINES LLC

C/O FOREST PROPERTIES MGMT INC.

625 MOUNT AUBURN ST. SUITE 210

50' RESERVATION FOR FUTURE

4322-2036 & REF. PLAN 3)

DEVELOPMENT AS PRIVATE

DRIVEWAY (SEE R.C.R.D.

(TO BE ABANDONED)

5/8" REBAR DOWN 1"-

5/8" REBAR FLUSH-

D.H.S.

294.83'

N34°45'02"W

└*─D.H.S.*

W/CAP LLS 535

20' WIDE EASEMENT TO PSNH & FAIRPOINT

TAX MAP 292 LOT 15

PORTSMOUTH, NH 03801 R.C.R.D. BK. 4510 PG. 526

TAX MAP 292 LOT 14 TDSG REAL ESTATE LLC 2992 D LAFAYETTE RD. PORTSMOUTH, NH 03801 R.C.R.D. BK. 5267 PG. 367

TAX MAP 292 LOT 12

CITY OF PORTSMOUTH

1 JUNKINS AVE.

20' PSNH EASEMENT FROM POLE

SIMILAR POLE NUMBERS NOT FOUND,

BELIEVED TO START AT THIS POLE)

146/126 TO POLE 146/126S,

TAX MAP 292

6" X 6" CONC. BND. FND.—

W/ D.H. FLUSH NHHB

6" X 6" CONC. BND. FND.-

W/ D.H. FLUSH NHHB

5/8" REBAR DOWN 3"-

LAFAYETTE FIRE STATION

PORTSMOUTH, NH 03801

R.C.R.D. BK. 4937 PG. 810

(SEE 3137-689,

6" X 6" CONC. BND. FND.

W/ D.H. UP 1" ◊

TAX MAP 292 LOT 13

BRIAN K. PUTNAM C/O PUTNAMS 2998 LAFAYETTE RD.

R.C.R.D. 5232-2481) (2,600± SQ. FT.)

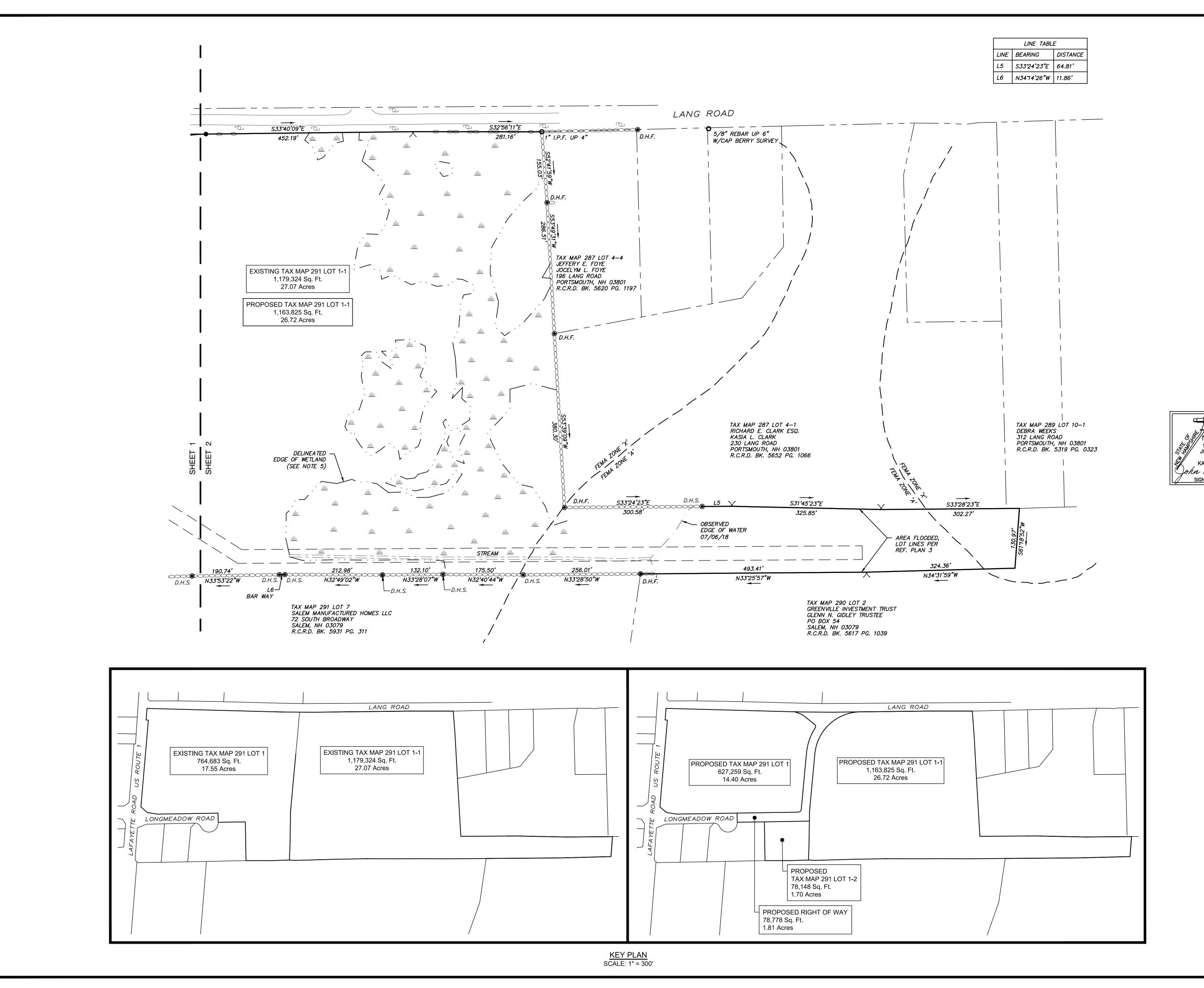
(LOCATION APPROXIMATE SEE

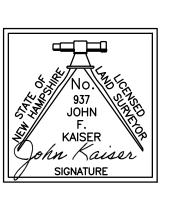
9. THE INTENT OF THIS PLAN IS TO CREATE A NEW RIGHT OF WAY TO CONNECT U.S. ROUTE 1 TO LANG ROAD BY CONNECTING THROUGH LONGMEADOW ROAD.

11. FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON, DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY, LLC).

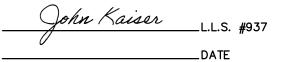
1-888-DIG-SAFE.

14. RIGHTS MAY EXIST FOR CONSTRUCTION OF A DAM PER NHDES ORDER "DAM #119.06" DATED FEBRUARY 15,

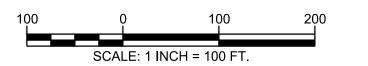




I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE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



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.



SUBDIVISION PLAN

SERVICE FEDERAL CREDIT UNION (TAX MAP 291 LOT 1 & LOT 1-1) FOR THE

CITY OF PORTSMOUTH

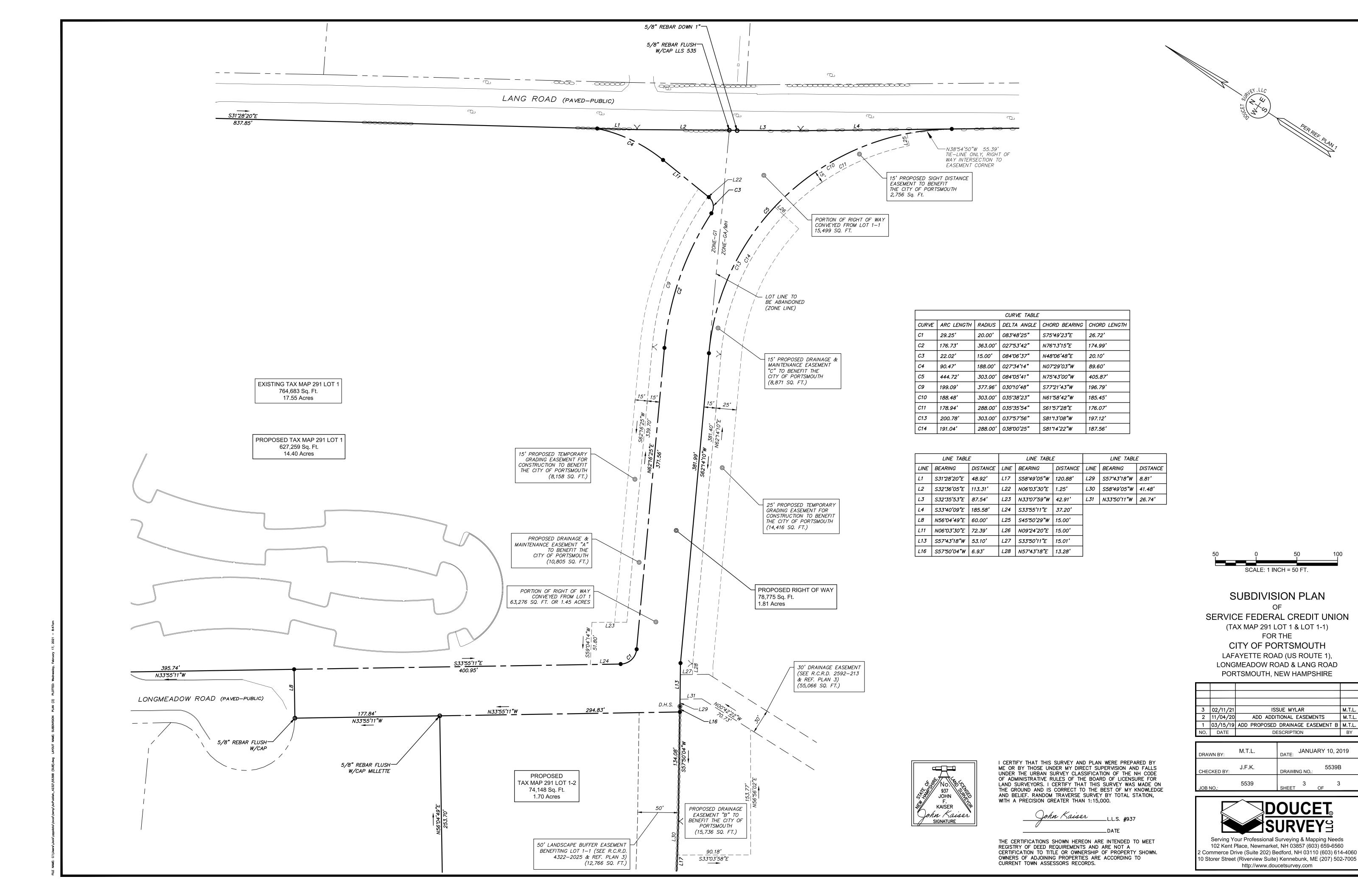
LAFAYETTE ROAD (US ROUTE 1), LONGMEADOW ROAD & LANG ROAD PORTSMOUTH, NEW HAMPSHIRE

3	02/11/21	ISSUE MYLAR	M.T.L.
2	11/04/20	ADD ADDITIONAL EASEMENTS	M.T.L.
1	03/15/19	ADD PROPOSED DRAINAGE EASEMENT B	M.T.L.
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.T.L.	DATE: JANUARY 10, 2019
CHECKED BY:	J.F.K.	5539B DRAWING NO.:
JOB NO.:	5539	2 3 SHEET OF



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GENERAL NOTES:

- THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH. 3. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE $_{
 m 1}$
- 4. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES. 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES AND COMPLY WITH THE
- CONDITIONS OF ALL OF THE PERMIT APPROVALS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS,
- NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION 7. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION 2. PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO
- ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
- 9. CONTRACTOR TO SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE IN STATE PLANE COORDINATES AND PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR.
- 10. CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
- 11. SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.

ALL LINES AND GRADES.

DEMOLITION NOTES:

- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
- 2. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR 2. UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE 3. IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
- COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
- 4. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING6. CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY
- 7. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY AND CITY OF PORTSMOUTH STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON 10. HYDRANTS, GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
- PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
- 10. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, TILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, CATCH BASINS, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, 1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS FENCES, RAMPS, WALLS, BOLLARDS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING.
- 11. REMOVE TREES AND BRUSH AS REOUIRED FOR COMPLETION OF WORK, CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE 2. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- 12. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
- 13. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN CONSTRUCTION LIMITS AS WELL AS CATCH BASINS/CURB INLETS THAT MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INLET PROTECTION BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY 5. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON ACF ENVIRONMENTAL OR EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS ACCUMULATED TO 1/3 THE 6. DESIGN DEPTH OF THE BARRIER.
- 14. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
- 15. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES
- THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.

SITE NOTES:

- PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, FIRE LANES, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES. ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED 10. LANDSCAPING SHALL BE LOCATED WITHIN 150 FT OF EXTERIOR HOSE ATTACHMENT OR SHALL BE USING WHITE PAVEMENT MARKINGS. ALL THERMOPLASTIC PAVEMENT MARKINGS INCLUDING LEGENDS, ARROWS, CROSSWALKS AND STOP BARS SHALL MEET THE REQUIREMENTS OF AASHTO 11. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. MEDIANS SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT. DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE

 14. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO WITHIN 3 AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO NHDOT STANDARD PLANS, AND APPLICABLE SUPPLEMENTAL DETAILS FOR CONSTRUCTION WITHIN THE US ROUTE 1 RIGHT-OF-WAY.
- 4. SEE DETAILS FOR PAVEMENT MARKINGS, ADA SYMBOLS, SIGNS AND SIGN POSTS.
- 5. CENTERLINES SHALL BE FOUR (4) INCH WIDE YELLOW LINES.
- 6. PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
- 7. STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE, WHITE THERMOPLASTIC AND CONFORM TO 17. CURRENT MUTCD STANDARDS.
- 8. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.

- 9. CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED.
- ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW.
- 11. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

GRADING AND DRAINAGE NOTES:

COMPACTION REQUIREMENTS: BELOW PAVED OR CONCRETE AREAS TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL BELOW LOAM AND SEED AREAS

MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

- ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH
- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING.
- 5. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
- ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4'

EROSION CONTROL NOTES:

1. SEE SHEET C-501 FOR GENERAL EROSION CONTROL NOTES AND DETAILS.

UTILITY NOTES:

COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY. • WATER - CITY OF PORTSMOUTH

• ELECTRIC - EVERSOURCE

PORTSMOUTH.

• COMMUNICATIONS - FAIRPOINT & COMCAST

ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, CEMENT LINED DUCTILE IRON PIPE ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE

CHLORINATION AND TESTING WITH THE CITY OF PORTSMOUTH WATER DEPARTMENT. 4. CONNECTION TO EXISTING WATER MAIN SHALL BE CONSTRUCTED TO THE CITY OF PORTSMOUTH STANDARDS

EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE,

LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE

DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL 8. A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.

9. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN

11. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.

12. CONTRACTOR TO INSTALL AND FURNISH LIGHT POLE BASE, 24' LIGHT POLE, 8' ARM AND LED LIGHT HEAD. LED LIGHT HEAD TO BE PROVIDED BY THE CITY OF PORTSMOUTH.

LANDSCAPE NOTES:

- PLAN. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL PLANTS SHALL
- THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER PLANTING.
- PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL
- RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST REVISION. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.

THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS SHOWN ON THE DRAWINGS, THE GREATER NUMBER SHALL APPLY.

NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.

TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN. 8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE 6" OF LOAM AND SEED. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.

9. THREE INCHES (3") OF BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN THE DETAILS. WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE 6" INCHES OF LOAM AND SEED.

PROVIDED WITH AN IRRIGATION SYSTEM.

M249. ALL PAINTED PAVEMENT MARKINGS INCLUDING CENTERLINES, LANE LINES AND PAINTED 12. TREE STAKES SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR. 13. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 1ST. NO PLANTING

INCHES OF THE TOP OF CURB ELEVATION. REMOVE ALL CONSTRUCTION DEBRIS BEFORE PLACING

- 15. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES.
- 16. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON. LANDSCAPE CONTRACTOR SHALL COORDINATE WATERING SCHEDULE WITH OWNER DURING THE ONE (1) YEAR GUARANTEE PERIOD.
- EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION,

SHALL BE REPLACED BY A TREE OF COMPARABLE SIZE AND SPECIES TREE OR SHRUB. 18. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING

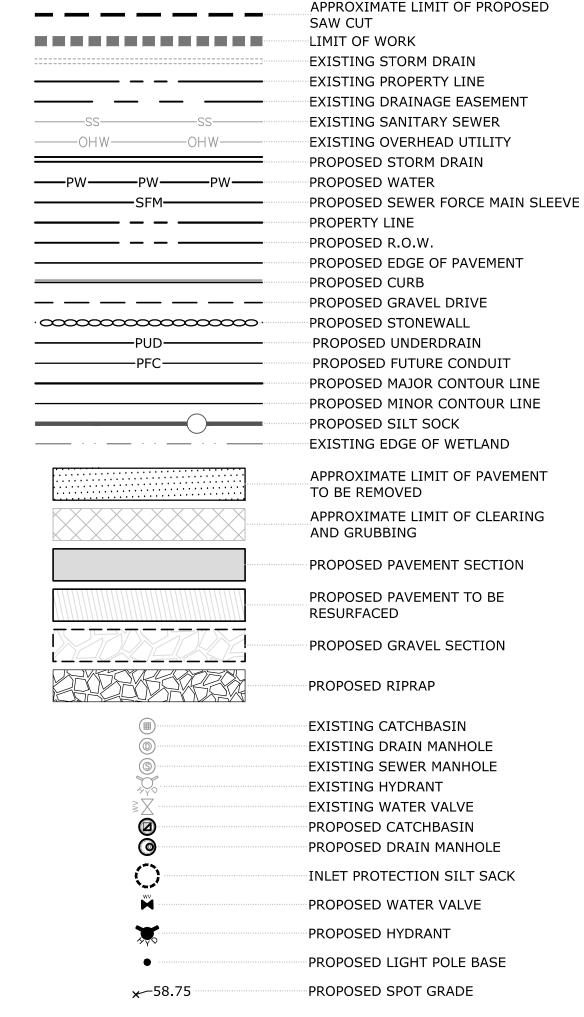
- AND ACCEPTABLE CONDITION FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
- UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS. * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM 21. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL

REFERENCE PLANS:

1. "TOPOGRAPHIC WORKSHEET" PREPARED BY DOUCET SURVEY, INC., DATED JULY 20, 2018.

PLANTING DATES.

LEGEND



TBR ······	TO BE REMOVED
IDK	TO DE REMOVED
TYP	TYPICAL
COORD	COORDINATE
VIF	VERIFY IN FIELD
CONST	CONSTRUCT
30'R	PROPOSED CURB RADIUS
VGC	PROPOSED VERTICAL GRANITE CURB
SGC	PROPOSED SLOPED GRANITE CURB
DSYL	DOUBLE SOLID YELLOW LINE
SSWL	SINGLE SOLID WHITE LINE



No. 08830

PATRICK

CRIMMINS

No. 12378

CANSE

02/17/202/1/11

City of Portsmouth

Portsmouth, New Hampshire

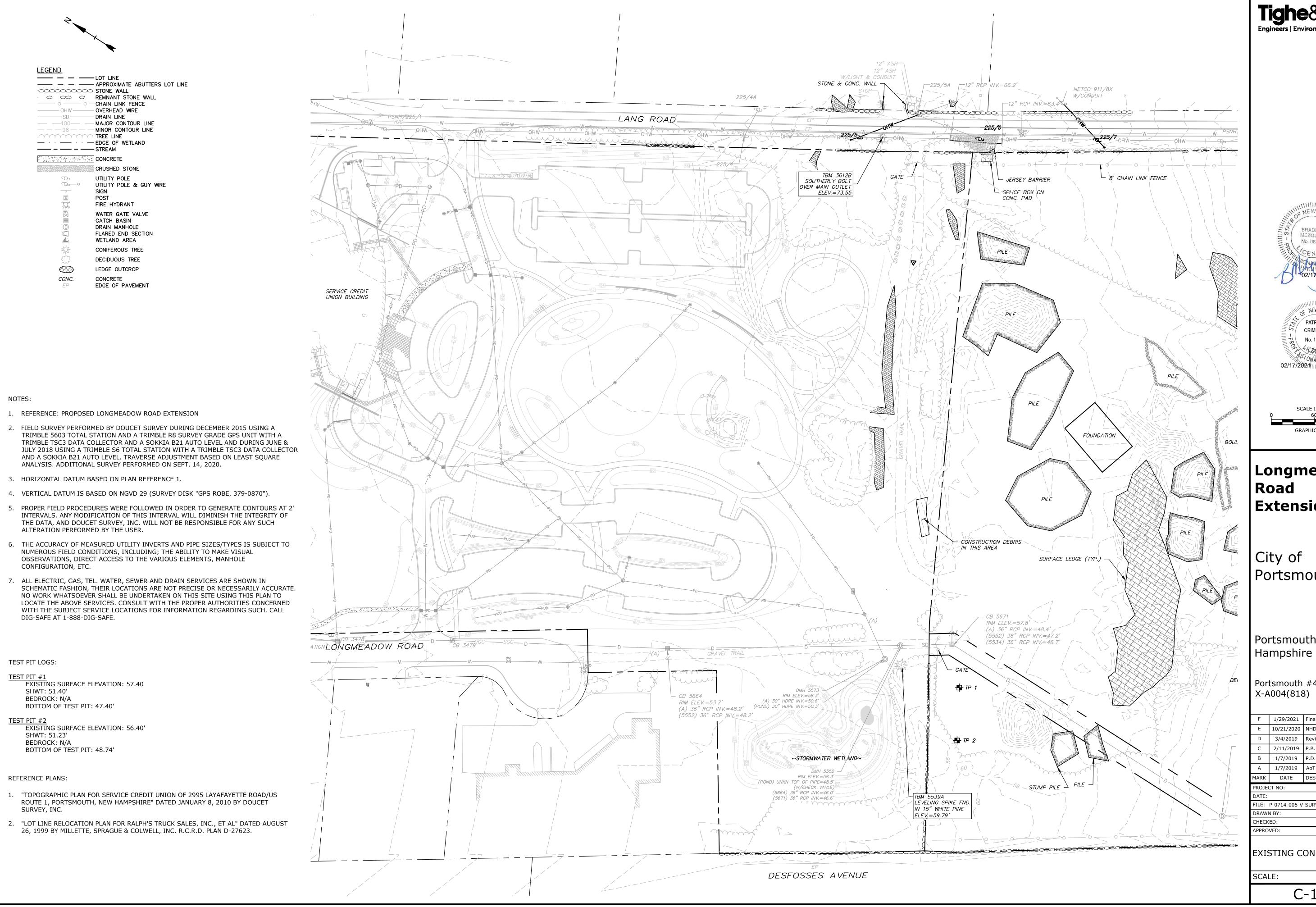
Portsmouth #42350 X-A004(818)

F	1/29/2021	Final Design Submission
Е	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
С	2/11/2019	P.B. Submission
В	1/7/2019	P.D. Submission
Α	1/7/2019	AoT Submission
MARK	DATE	DESCRIPTION
PROJEC	CT NO:	P-0714-00

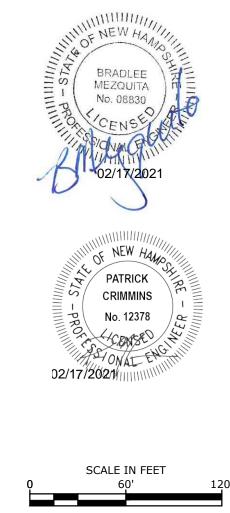
October 21, 20 FILE: P-0714-005-C-DSGN.dwa DRAWN BY CHECKED:

GENERAL NOTES, LEGEND & ABBREVIATIONS

SCALE: AS SHOWN



Engineers | Environmental Specialists



Longmeadow **Extension**

City of Portsmouth

Portsmouth, New

Portsmouth #42350

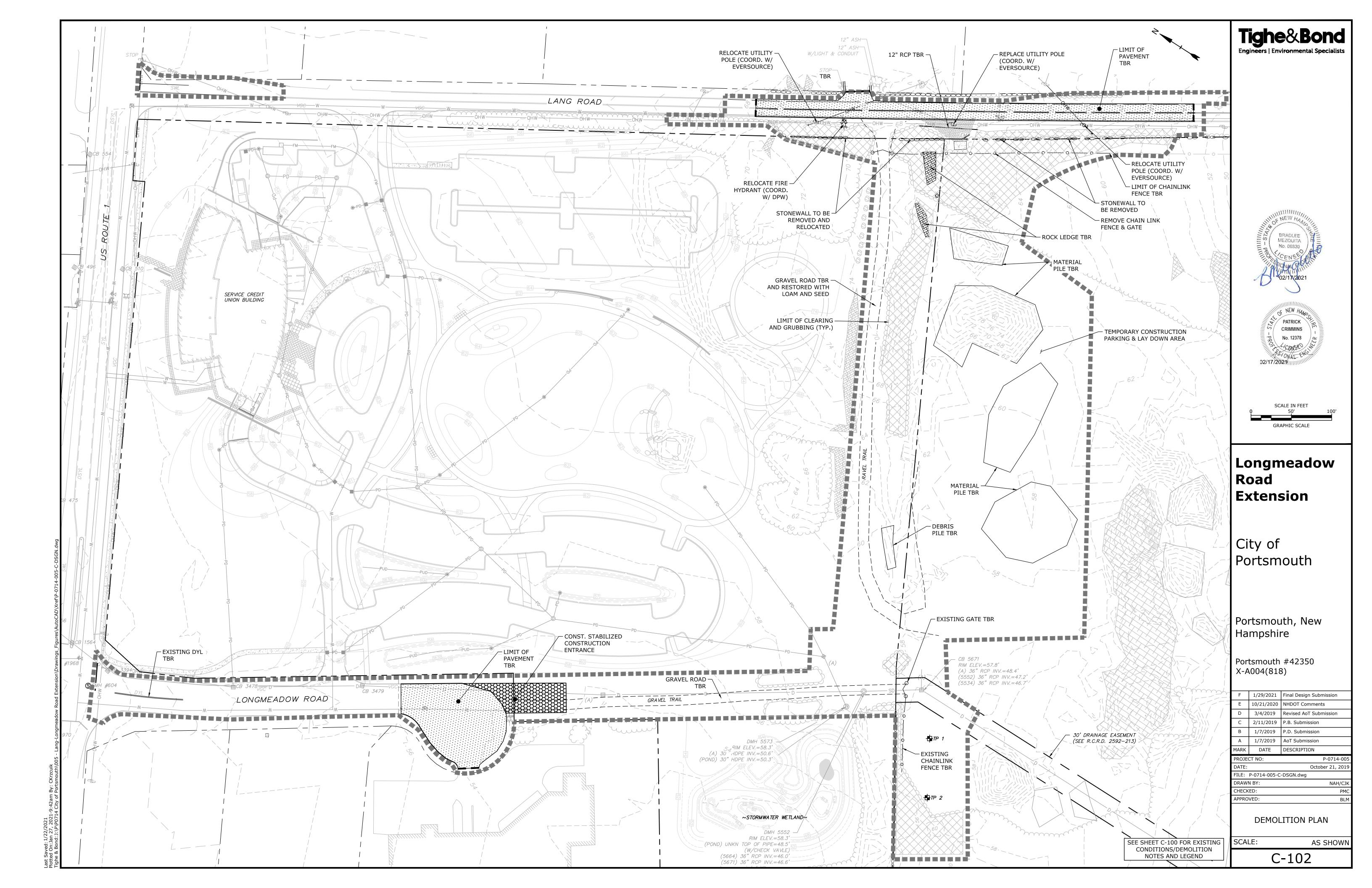
F	1/29/2021	Final Design Submission
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D	3/4/2019	Revised AoT Submission
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PRO1F(CT NO:	P-0714-00

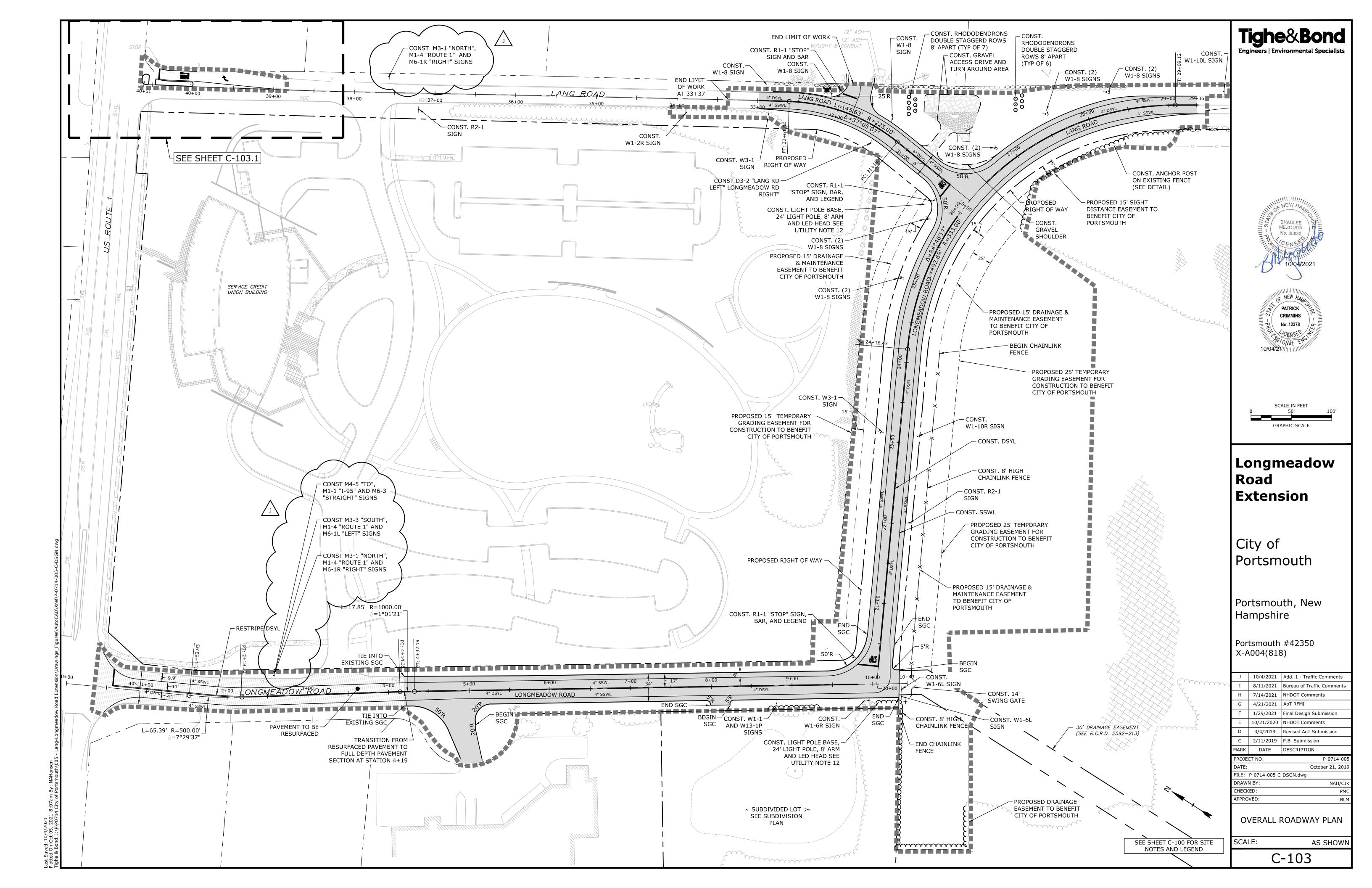
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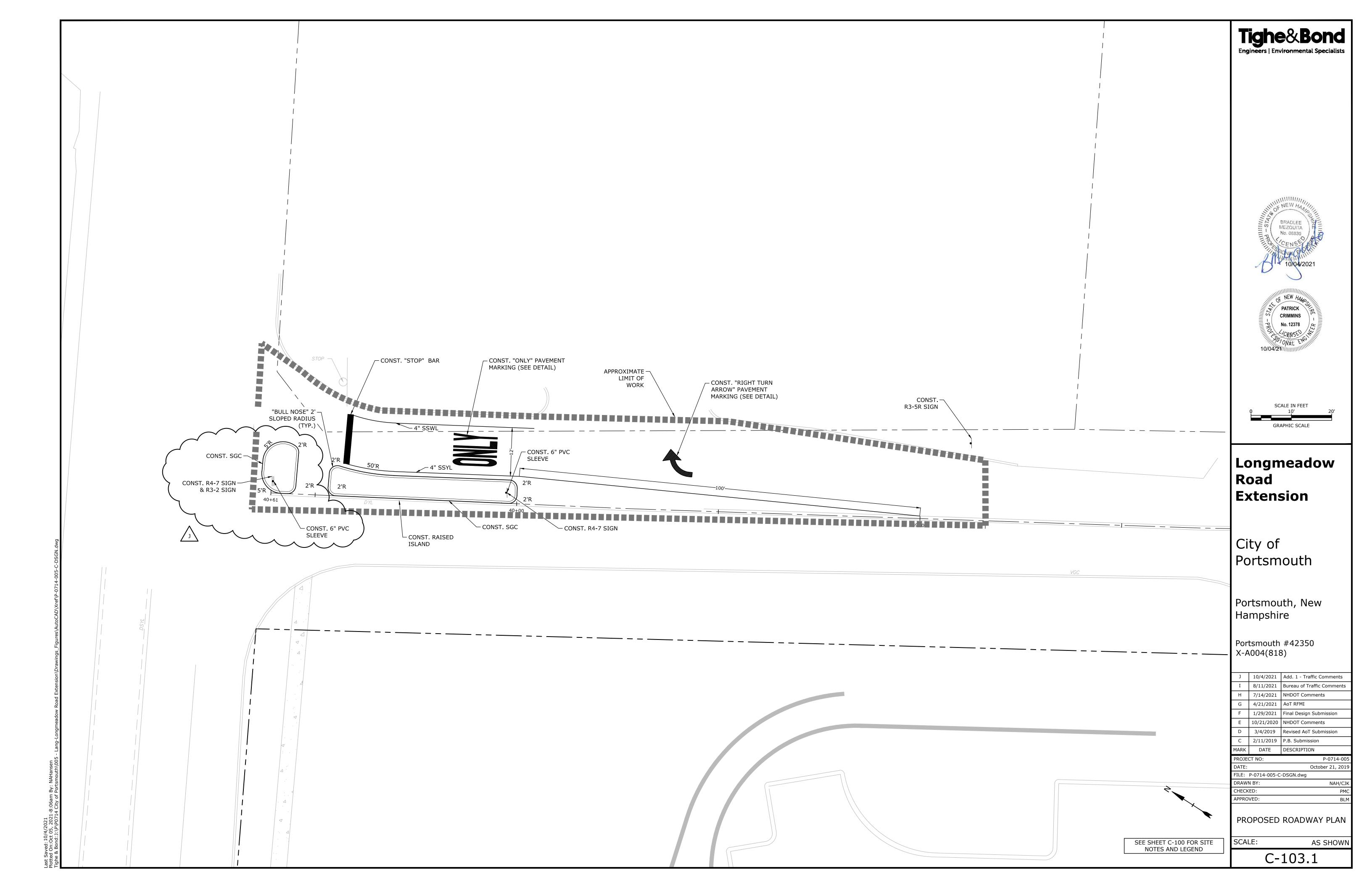
EXISTING CONDITIONS PLAN

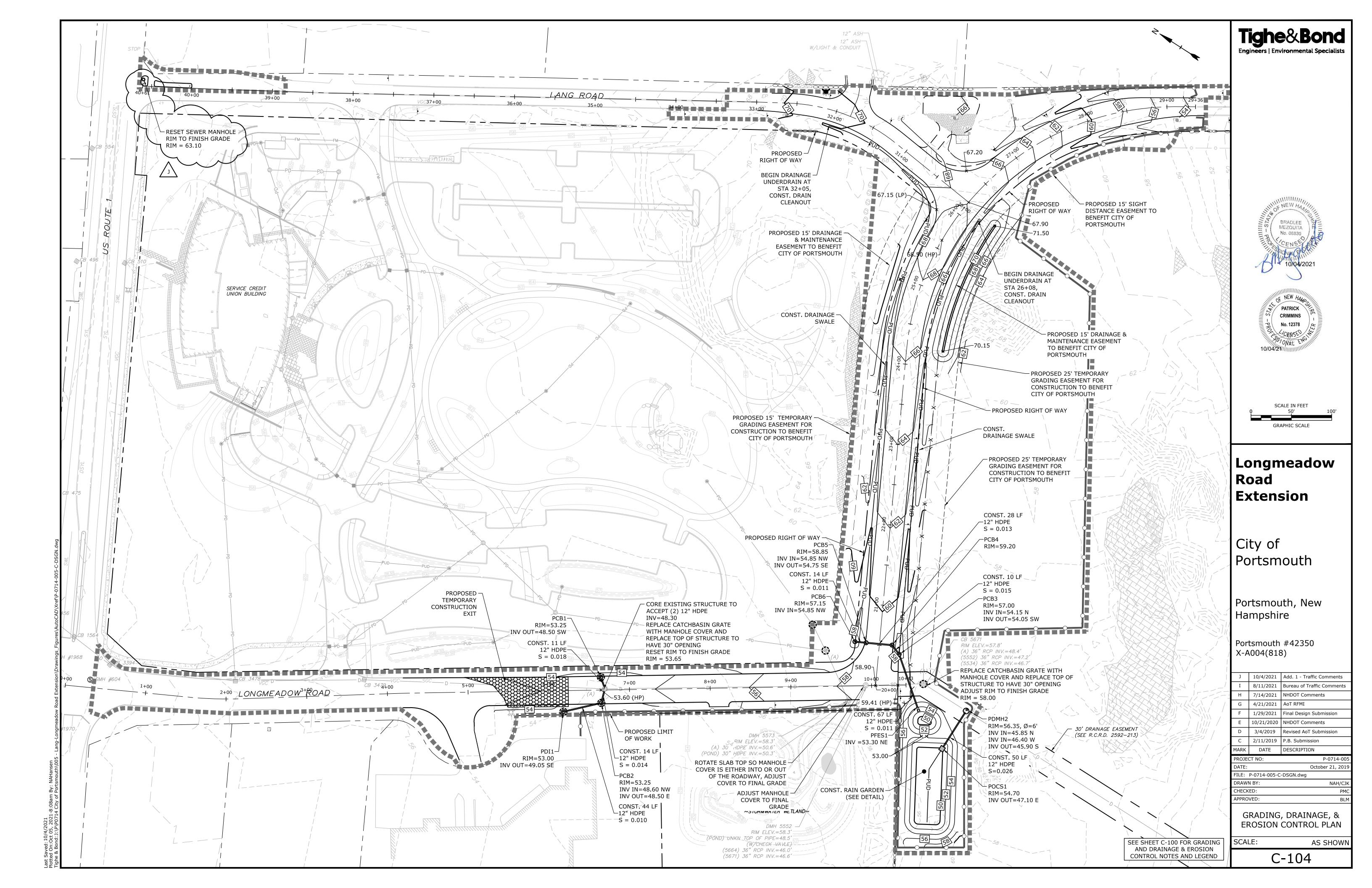
NAH/CJK

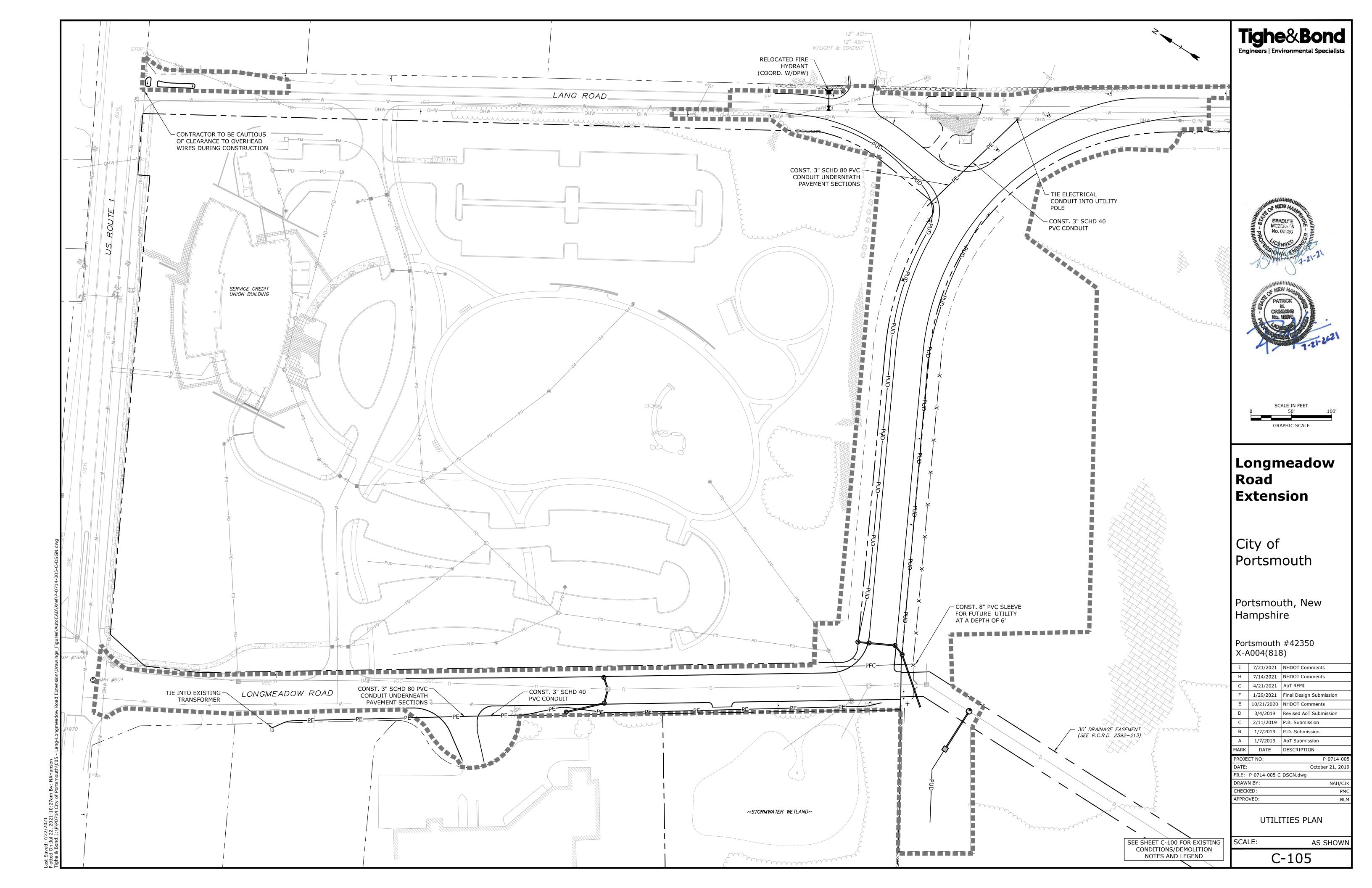
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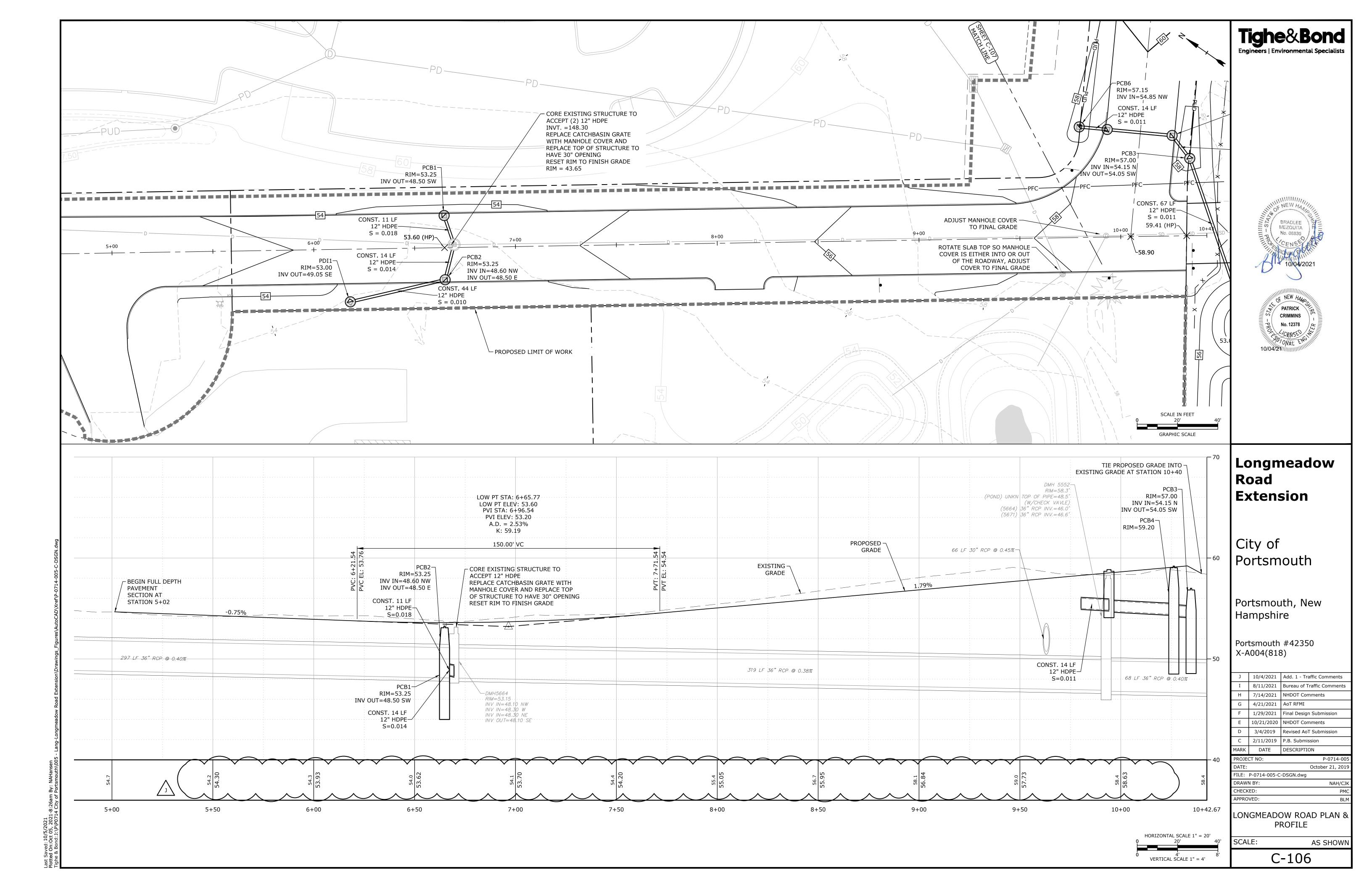


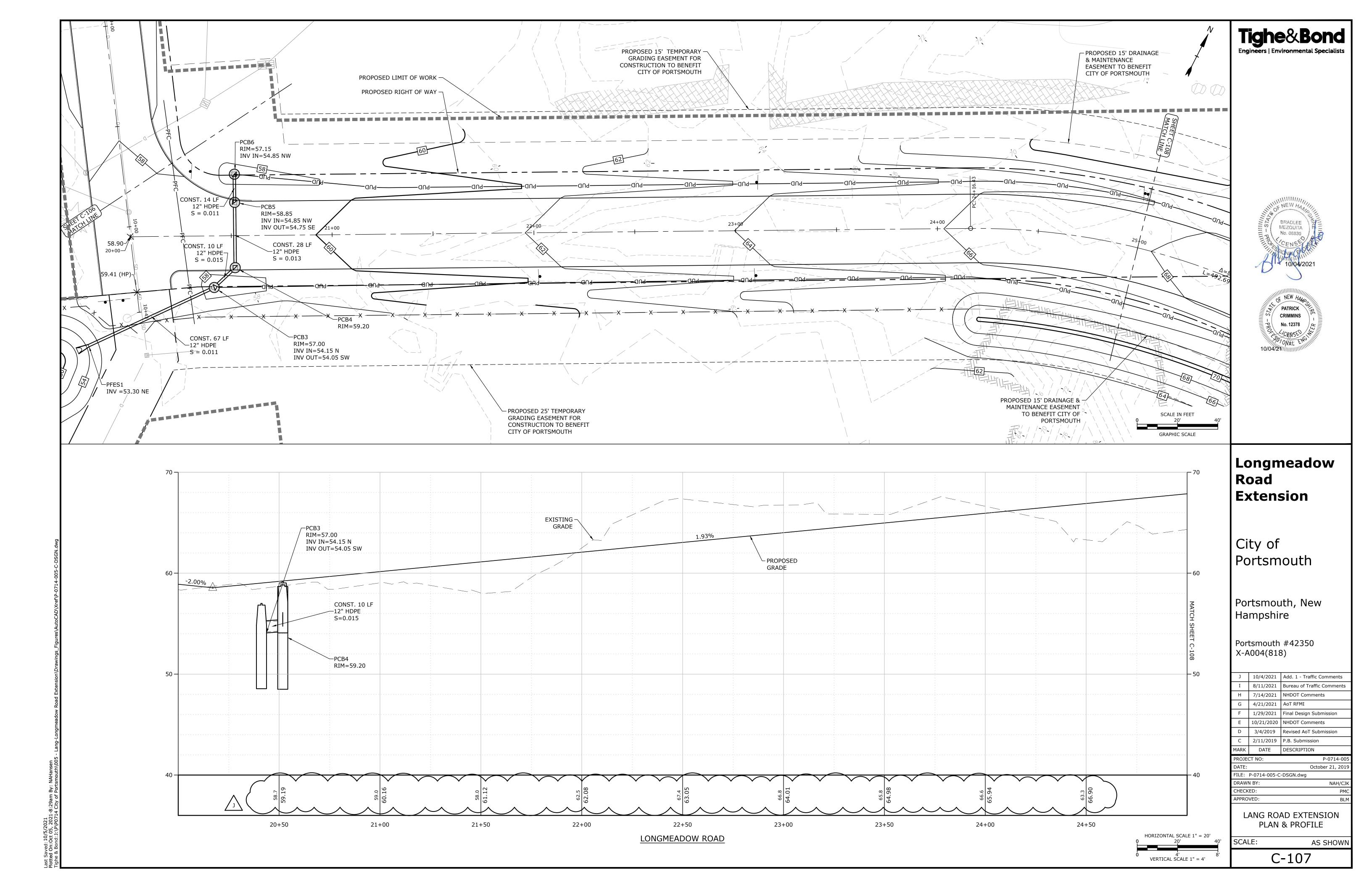


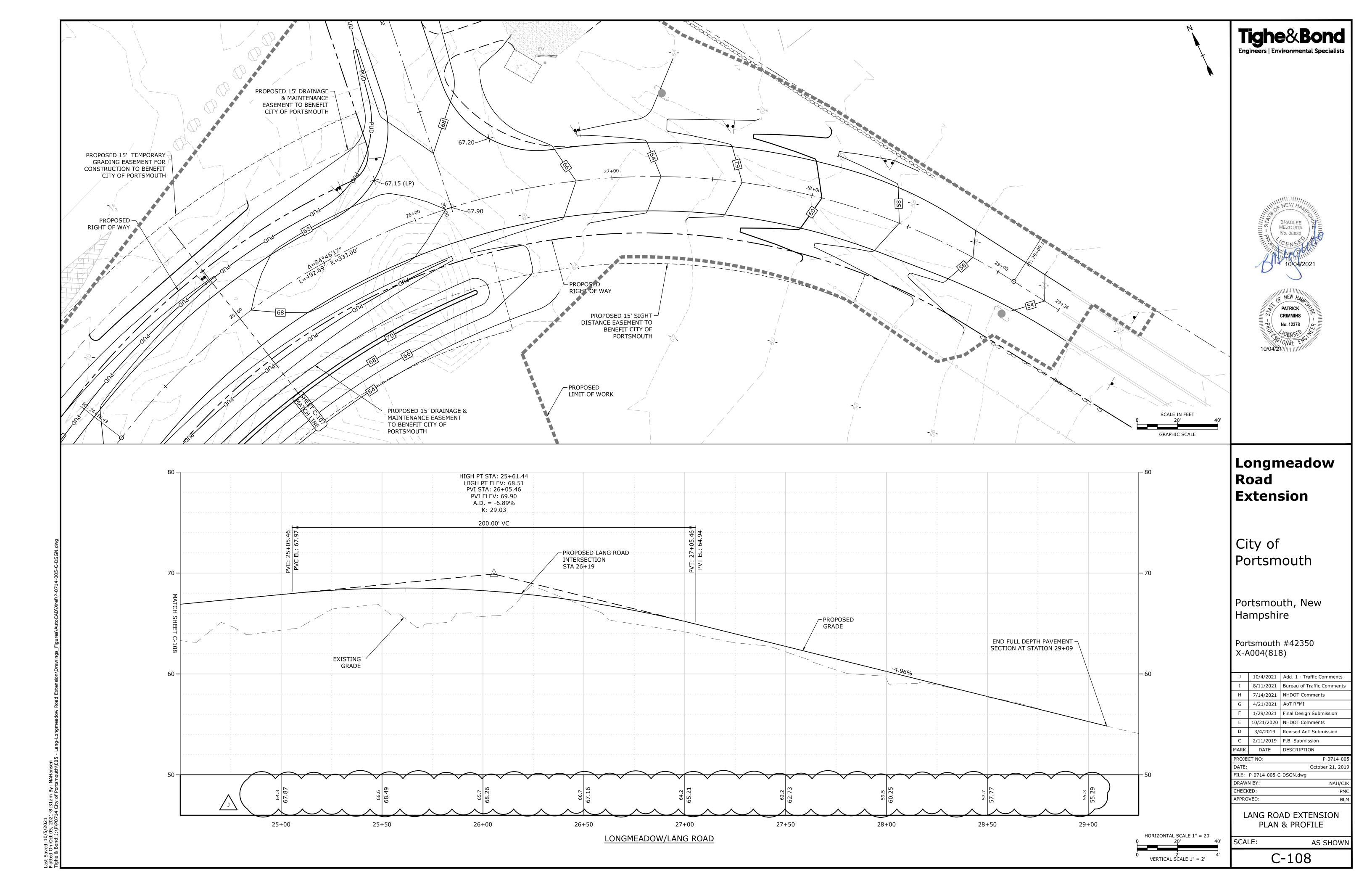


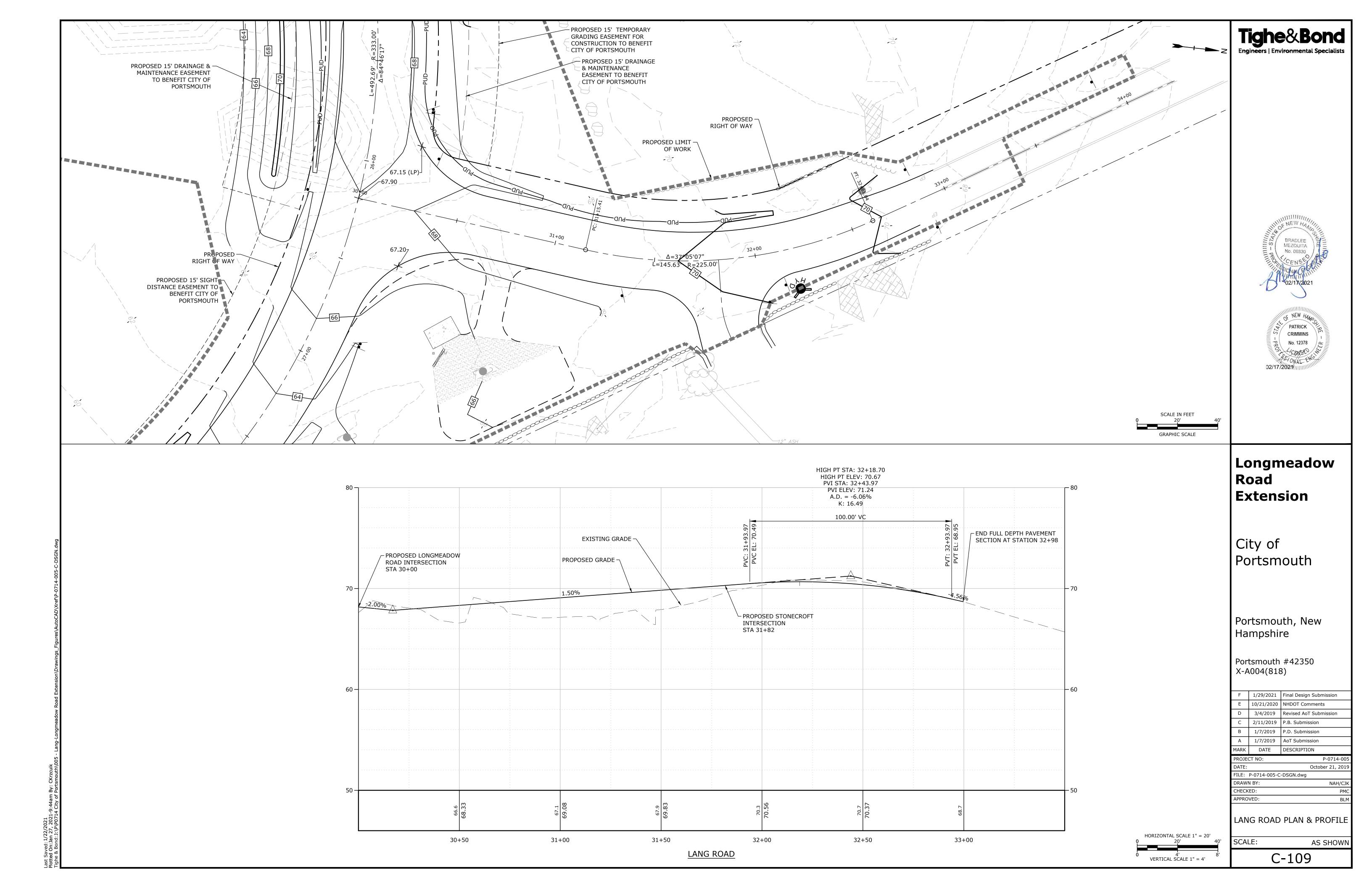


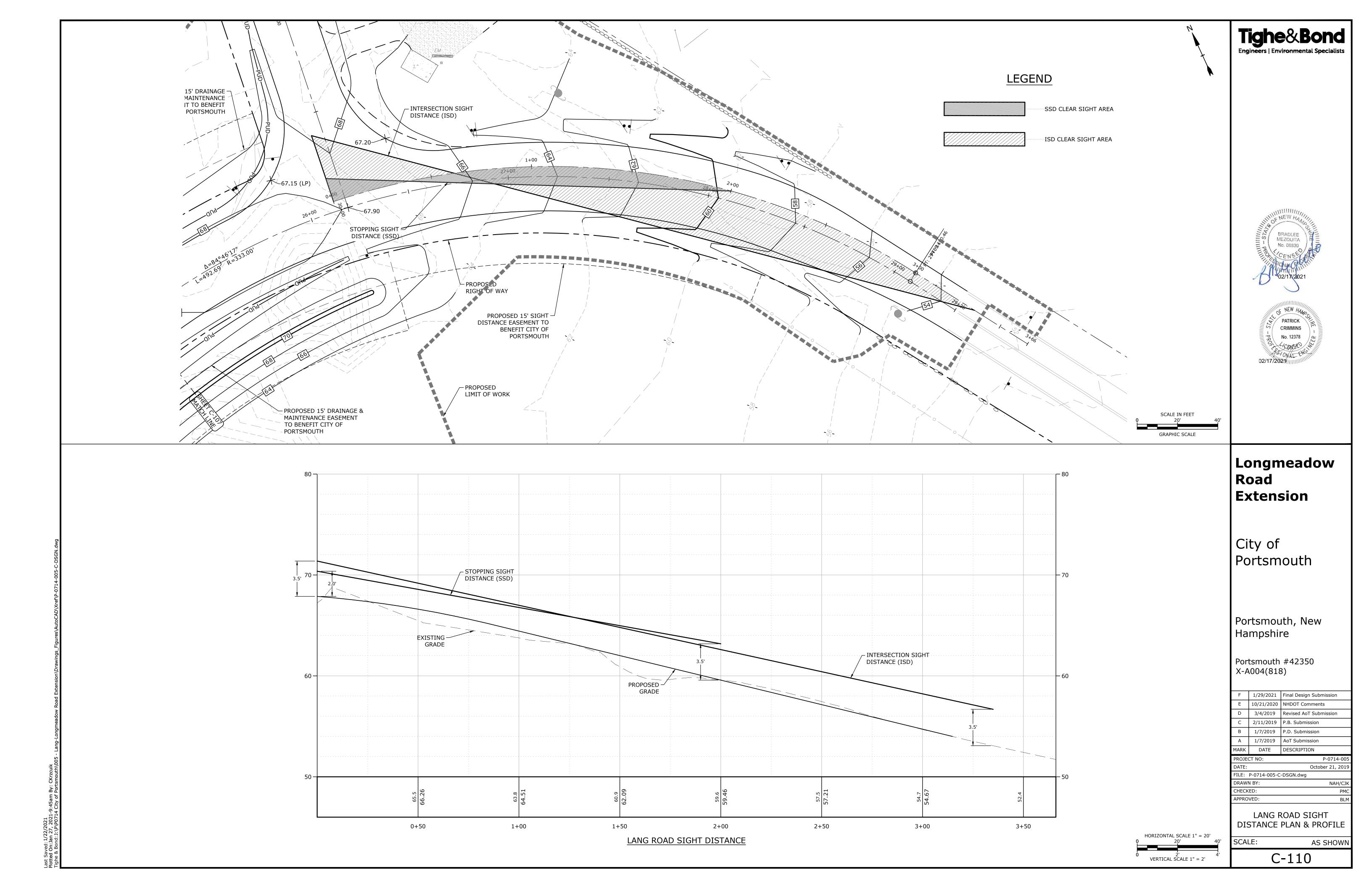


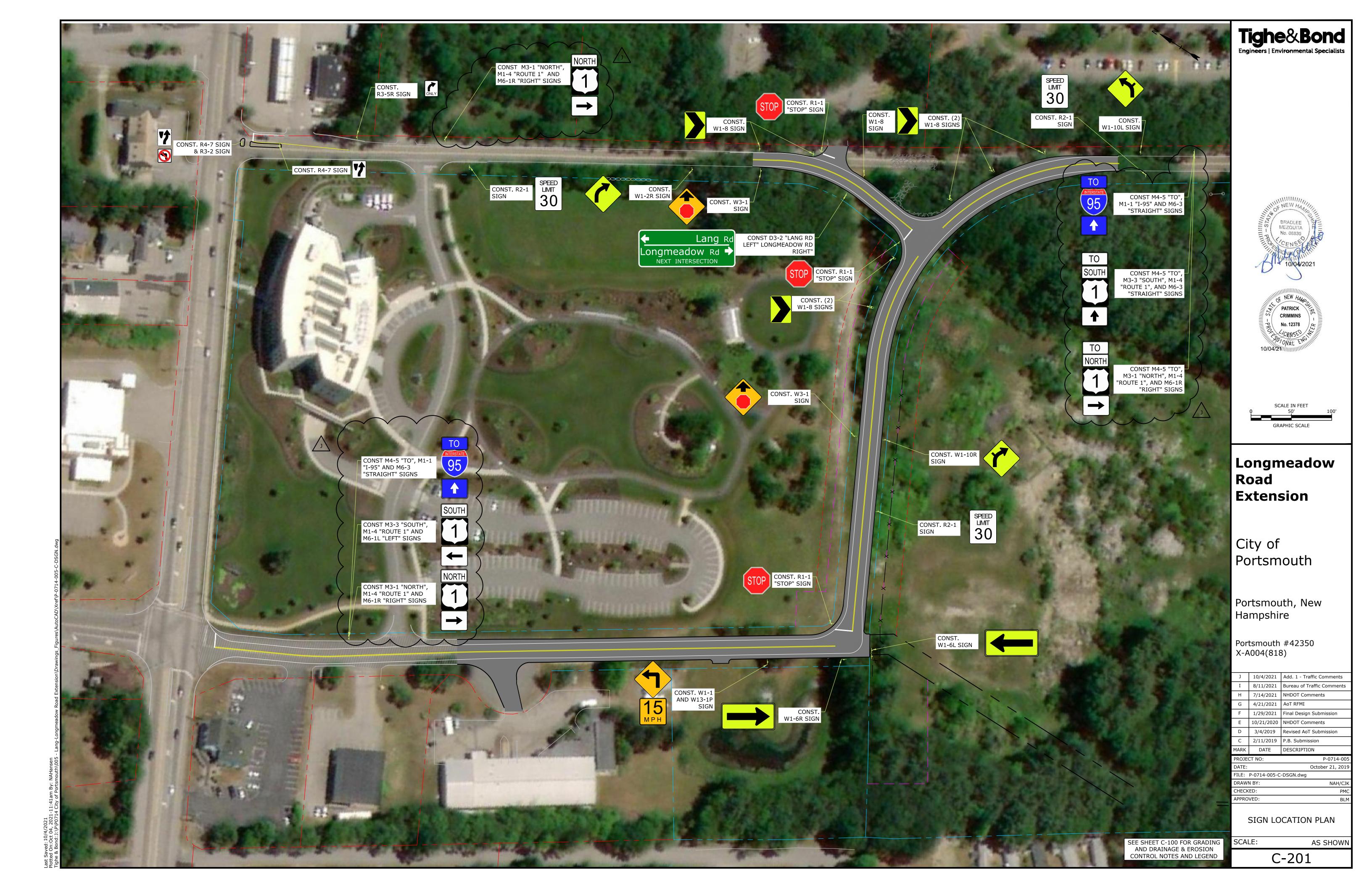












PROJECT OWNER: CITY OF PORTSMOUTH 1 JUNKINS AVENUE

PORTSMOUTH, NH 03801 LONGMEADOW ROAD EXTENSION PROJECT ADDRESS: LONGMEADOW ROAD PORTSMOUTH, NH 03801

PROJECT LATITUDE: 43°-01'-27.5"N PROJECT LONGITUDE: 70°-47'-24.9"W

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE CLEARING AND GRUBBING OF FOREST, REGRADING OF LAND, AND CONSTRUCTION OF A ROAD CONNECTING LONGMEADOW ROAD TO LANG ROAD. THE WORK IS ANTICIPATED TO START IN SPRING 2021, AND BE COMPLETED BY FALL 2021.

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATIPLY 4.73 ACRES

SOIL CHARACTERISTICS

BASED ON THE USCS SITE SPECIFIC SOIL SURVEY CONDUCTED BY MERIDIAN LAND SERVICES, INC., ON AUGUST 26, 2010 THE SOILS ON SITE CONSIST OF WELL DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATINGS OF B.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED WETLAND AND ULTIMATELY FLOWS TO BERRY'S BROOK.

CONSTRUCTION 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
 - NEW CONSTRUCTION
- CONTROL OF DUST
- CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS 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 WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
- FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES. COMPLETE PERMANENT SEEDING AND LANDSCAPING
- 13. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND

INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

EROSION CONTROL NOTES:

- ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHDES.
- PRIOR TO ANY WORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EROSION CONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.
- CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALES, SILT FENCES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
- SILT SACK INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED
- AND FERTILIZER. INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER
- CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1

- AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED: A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
- D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;
- E. IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.
- WINTER STABILIZATION PRACTICES: A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING 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 ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
- C. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
- STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL 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. STABILIZATION MEASURES TO BE **USED INCLUDE:**
- A. TEMPORARY SEEDING;
- B. MULCHING.
- ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET

- OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE
- 6. 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 SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
- 2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY
- 3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
- ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL
- MEASURES PRIOR TO THE ONSET OF PRECIPITATION. 3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE
- 4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.

OFF SITE VEHICLE TRACKING

1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

- TEMPORARY GRASS COVER A. SEEDBED PREPARATION:
- a. 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;

B. SEEDING:

- a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
- b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
- c. 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;

C. MAINTENANCE:

a. TEMPORARY SEEDING 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.). VEGETATIVE PRACTICE:

- A. FOR PERMANENT MEASURES AND PLANTINGS:
- a. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
- b. 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;
- c. 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;
- d. 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;
- g. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
- h. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX APPLICATION RATE CREEPING RED FESCUE 20 LBS/ACRE

TALL FESCUE

20 LBS/ACRE 2 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.

3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL): A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS

- THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE: A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT
- FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY; B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
- C. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;
- D. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:

INDICATED FOR PERMANENT MEASURES.

- FIRE-FIGHTING ACTIVITIES
- FIRE HYDRANT FLUSHING
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED; I. WATER USED TO CONTROL DUST;
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING; ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- 7. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED
- 8. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION; 9. UNCONTAMINATED GROUND WATER OR SPRING WATER;
- 10. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED; 11. UNCONTAMINATED EXCAVATION DEWATERING;
- 12. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

- WASTE MATERIAL A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE
- DEPOSITED IN A DUMPSTER; B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
- C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR
- WASTE DISPOSAL BY THE SUPERINTENDENT.
- **HAZARDOUS WASTE:**
- A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER; B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- 3. SANITARY WASTE:
- A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

- CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
- 2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
- A. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
- a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON b. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN
- THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE; c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE
- d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND
- DISPOSAL OF MATERIALS; e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER
- f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- HAZARDOUS PRODUCTS THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS: g. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT
- RESEALABLE; h. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT
- PRODUCT INFORMATION; i. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING
- TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL
- BE FOLLOWED ON SITE: a. PETROLEUM PRODUCTS:

APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

- ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE; PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE
- b. FERTILIZERS FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED
- BY THE SPECIFICATIONS; ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE
- STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- c. PAINTS: ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED
- EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM; EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- D. SPILL CONTROL PRACTICES IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE
- LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES; b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY
- c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY; d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A
- **HAZARDOUS SUBSTANCE:** e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE
- APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED; f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
- E. VEHICLE FUELING AND MAINTENANCE PRACTICE: a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPTMENT/VEHICAL FUELING
- AND MAINTENANCE AT AN OFF-SITE FACILITY; b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS
- CLEAN AND DRY; c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;

FOR THIS PURPOSE;

SHALL SUBMIT:

A. A BLASTING PLAN THAT IDENTIFIES:

- d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA; e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
- f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES

THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY THE ENGINEER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.

- THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT: 1. OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY
- THE CONTRACTOR AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
- 2. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR; 3. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE
- AND REPAIR ACTIVITIES 4. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT

HTTPS://WWW.DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF **BLASTING NOTES**

- CONTRACTOR SHALL CONTACT THE NHDES PRIOR TO COMMENCING ANY BLASTING **ACTIVITIES** 2. FOR ANY PROJECT FOR WHICH BLASTING OF BEDROCK IS ANTICIPATED, THE APPLICANT
- a. WHERE THE BLASTING ACTIVITIES ARE ANTICIPATED TO OCCUR; b. THE ESTIMATED QUANTITY OF BLAST ROCK IN CUBIC YARDS; AND

- SITE-SPECIFIC BLASTING BEST MANAGEMENT PRACTICES.
- 3. IF MORE THAN 5000 CUBIC YARDS OF BLAST ROCK WILL BE GENERATED AND THERE ARE ONE OR MORE PUBLIC DRINKING WATER WELLS WITHIN 2000 FEET OF THE BLASTING ACTIVITIES, A PLAN TO MONITOR GROUNDWATER TO DETECT ANY CONTAMINATION IN SUFFICIENT TIME TO PROTECT THE WATER SUPPLY WELLS SHALL BE PROVIDED TO THE NHDES. THE GROUNDWATER MONITORING PLAN SHALL INCLUDE:
- A. MONITORING FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY
- WELLS IN THE AREA:
- a. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY
- B. THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED
- a. LOADING PRACTICES THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
- DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL
- AS GROUNDWATER CONDITIONS; ii. EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE
- CONTAINERS FOR OFF-SITE DISPOSAL; iii. SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL
- iv. LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED; v. LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF
- CONTAMINANTS TO THE ENVIRONMENT; vi. EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE
- b. EXPLOSIVE SELECTION THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:

i. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE

- CONDITIONS AND SAFE BLAST EXECUTION ii. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER
- c. PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES. MUCK PILES MANAGEMENT - MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR
- REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER

CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:

C. SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT DURING BLASTING OPERATIONS. THE MEASURES TO PREVENT SUCH RELEASES SHALL BE DETAILED IN THE GROUNDWATER MONITORING REPORT AND COMPLY WITH THE MEASURES AND BEST MANAGEMENT PRACTICES LISTED ON THIS SHEET.



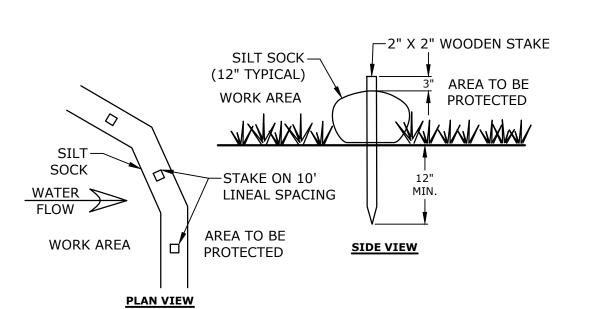


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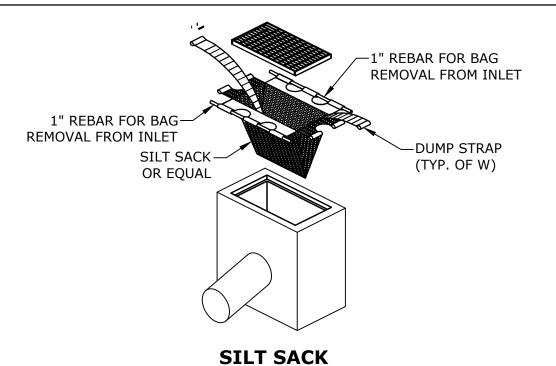
CRIMMINS

No. 12379

Longmeadow **Extension**



. SILT SOCK SHALL BE SILT SOXX BY FILTREXX OR APPROVED EQUAL 2. INSTALL SILT SOCK IN ACCORDANCE WITH GRADING, DRAINAGE, & SILT SOCK NO SCALE



EROSION CONTROL SHEET (C-104)

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818) G 4/21/2021 AoT RFMI

F 1/29/2021 Final Design Submission E 10/21/2020 NHDOT Comments 3/4/2019 Revised AoT Submission C 2/11/2019 P.B. Submission B 1/7/2019 P.D. Submission A 1/7/2019 AoT Submission MARK DATE DESCRIPTION PROJECT NO: P-0714-005 October 21, 201

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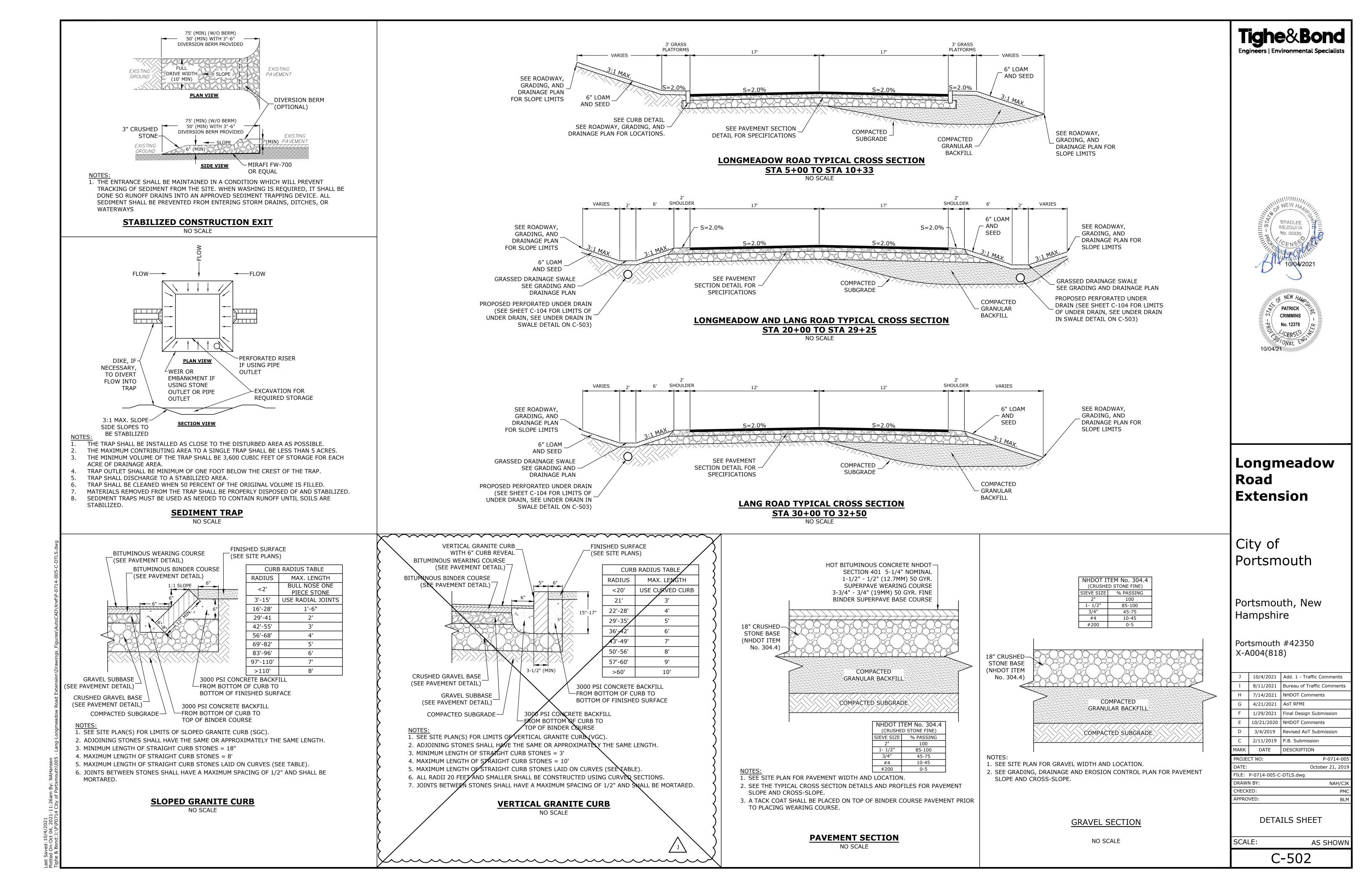
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EROSION CONTROL NOTES &

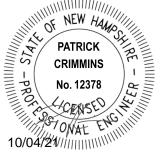
DETAILS SHEET

SCALE: AS SHOWN



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	M4-5	21	15	TO					2	2.2	4.4			WHITE ON BLUE	615.03	W1-1	36	36							1	9	9		FLUORESCENT YELLOW
	M1-1	24	24	INTERSTATE 95					2	4	8	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WHITE ON RED AND BLUE, 2 POSTS WITH 3 WIDE CONFIGURATION	5.0301	1-10L	36	36							1	9	9	1	BLACK ON FLUORESCENT
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1 613.0301	M1-4	24	24			24		12D	5	4	20	2/1		2 POSTS WITH 3 WIDE CONFIGURATION 1 POST WITH SINGLE CONFIGURATION	615.0301	W1-2R	36	36							1	9	9	1	BLACK ON FLUORESCENT YELLOW
	M3-1	24	12	NORTH	7C/6C				3	2	6			BLACK ON WHITE	1	-													
000.610	M6-1L	21	15						1	2.2	2.2			BLACK ON WHITE	615.030	R3-5R	30	36	ONLY						1	7.50	7.50	1	BLACK ON WHITE
000.610	5-3 M3-3	24	12	SOUTH	7C/6C				2	2.2	2.2		_	BLACK ON WHITE BLACK ON WHITE	615.0301	R4-7	24	30	7						2	5	10	1	BLACK ON WHITE, MOUNT ABOVE R3-2
	M4-5 M6	21	15	TO	7C/6C				2	2.2	4			BLACK ON WHITE															
1000.010	W1-1	36	36						1	9	9	1		BLACK ON YELLOW, MOUNT ABOVE W13-1P	615.0301	R2-1	24	30	SPEED LIMIT 30						3	5	15	1	BLACK ON WHITE
	W13-1P	18	18	15 MPH					1	2.25	2.25			BLACK ON YELLOW, MOUNT BELOW W1-1	615.0301	W3-1	30	30							2	6.25	12.50	1	BLACK AND RED ON YELLOW
100000000000000000000000000000000000000	W1-6R	24	48						1	8	8		1	BLACK ON FLUORESCENT YELLOW	615.0301	W1-8	18	24							12	3	36	1	BLACK ON FLUORESCENT YELLOW
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W1-6L	24	48						1	8	8		1	BLACK ON FLUORESCENT YELLOW	615.0201	D3-2	96	48	Lang Rd Longmeadow Rd NEXT INTERSECTION	6D						32	32 X	2P	WHITE ON GREEN, PLANK
013.0301	R1-1	36	36	STOP	12D				3	9	27		1	WHITE ON RED					OARD SPECIFICATIONS FOR			CONSTRUCT		ED BY T				LONG COMMON	
	R3-2	24	24						1	4	4			RED AND BLACK ON WHITE, MOUNT BELOW R4-7	3 \$ 4	3, REFER TO SIGNS. 4, REFER T 5, THE ALU 5, REFER T	O THE 20 TO THE LA UMINUM TO ROUTI	10 STAND. ATEST EDI OR U-CHA E MARKER	REQUIREMENTS IN THE 20: ARD PLANS FOR ROAD CON ITION OF THE STANDARD F ANNEL POST SHALL BE FLU R POST ASSEMBLY DETAIL' S SHALL NOT BE PERMITTE	ISTRUCTION IGHWAY S SH WITH T LOCATED	ON AS PUI SIGNS MA THE TOP C	BLISHED BY T NUAL AS PUE OF THE SIGN C	HE NHDOT FO LISHED BY TI N ALL SINGLE	OR EXAC HE USDO E POST A	CT DETAILS OT-FHWA F ASSEMBLIE	S OF PERM FOR EXAC ES.	IANENT SIGNING	STANDARD	S AND NHDOT SPECIFIC





Longmeadow Road **Extension**

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

J	10/4/2021	Add. 1 - Traffic Comments
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144516	5.475	D ECCONTRETION.

DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DESIGN

SIGN TEXT LAYOUT

TOTAL SHEETS

STATE PROJECT NO. FEDERAL PROJECT NO. SHEET NO.

EXCEL FILE NAME

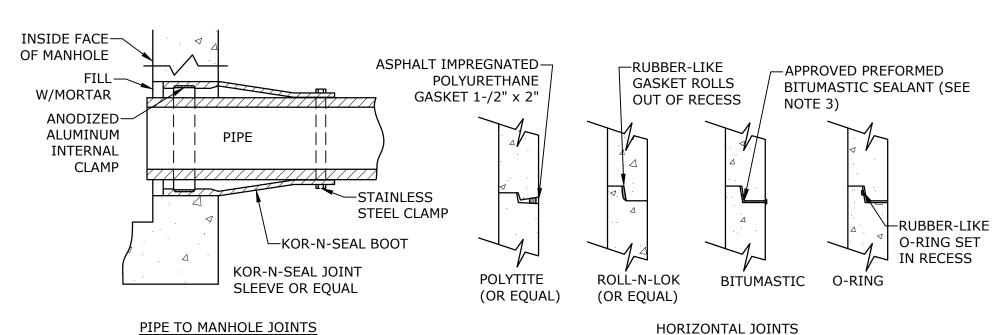
S:\ProjectDeveIopment\Forms\Project\sgntxt-I.xls

1ARK DATE DESCRIPTION P-0714-005 October 21, 2019

FILE: P-0714-005-C-DTLS.dwg DRAWN BY: CHECKED:

DETAILS SHEET

SCALE: AS SHOWN

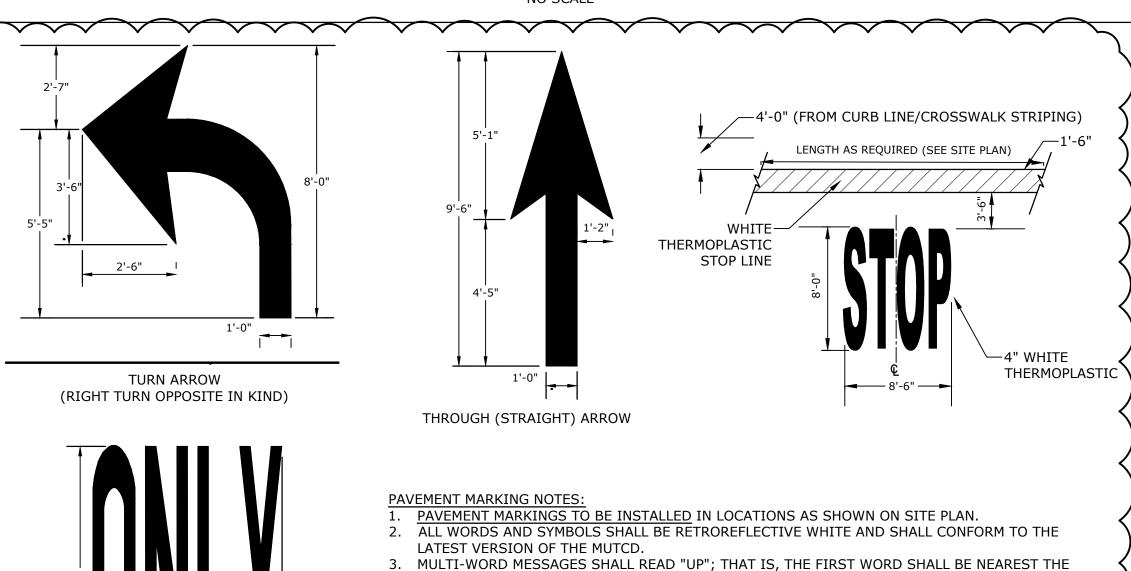


1. HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF PORTSMOUTH DPW STANDARD

- AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET. 2. PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF PORTSMOUTH STANDARD.
- 3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.

4. ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

MANHOLE JOINTS NO SCALE



4. THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND

5. COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH

ARROWS). HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE AS SHOWN.

6. PREFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.

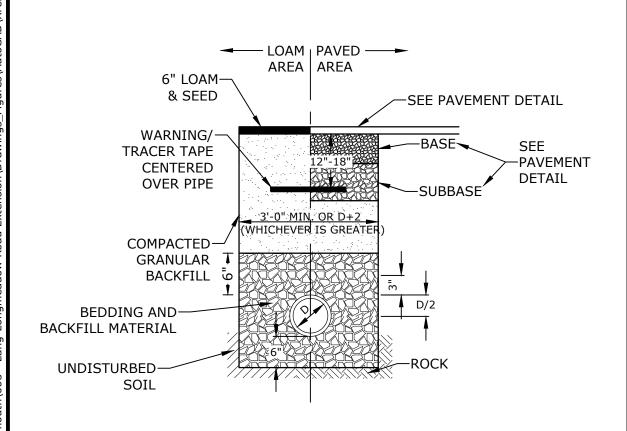
7. WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.

7. ALL STOP BARS, WORDS, SYMBOLS AND ARROW SHALL BE THERMOPLASTIC.

SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A WORD/SYMBOL SHALL PRECEED

THE WORD "ONLY".

PAVEMENT MARKINGS



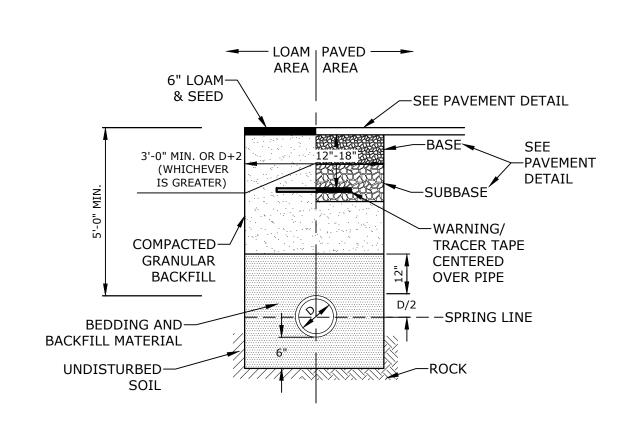
ONLY LEGEND

CRUSHED STONE BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE UP TO 6" ABOVE TOP OF PIPE. ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY

COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF PORTSMOUTH.

STORM DRAIN TRENCH

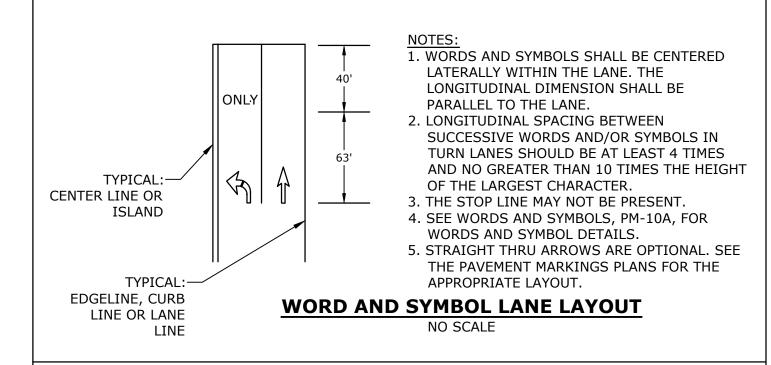
NO SCALE

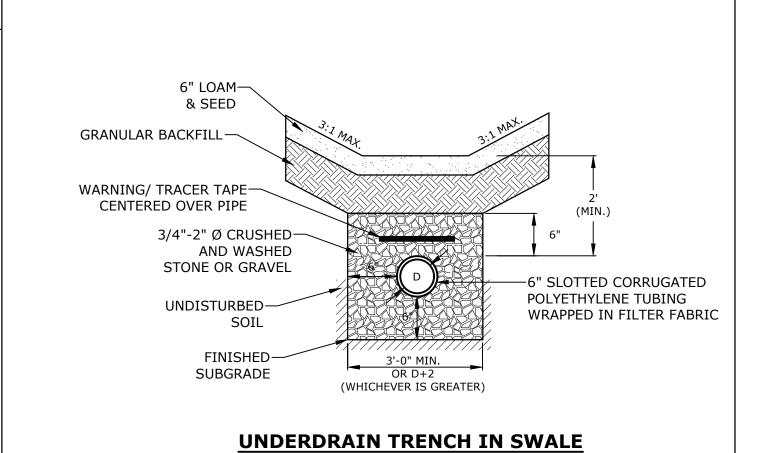


- 1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE UP TO 12" ABOVE TOP OF PIPE
- 2. WATER MAIN SHALL BE INSTALLED PER CITY OF PORTSMOUTH STANDARDS. COORDINATE ALL INSTALLATIONS WITH THE CITY OF PORTSMOUTH.

WATER TRENCH

NO SCALE





NO SCALE

8" MIN.

√ 5" MIN

← 48" ± 1" DIA. ←

24" MAX.

DIA. PIPE

FINISH—

SUBGRADE

6" TYP.

ECCENTRIC TOP

HEIGHT OF RISER

VARY FROM 1' TO 4'

5" MIN

PROVIDE "V" OPENING-

CONST. BRICK INVERT-

KOR-N-SEAL BOOT-

OR EQUAL FILL ANNULAR SPACE

WITH MORTAR

-MANHOLE FRAME AND COVER

(2 COURSES MAX.)

-SEE MANHOLE

(TYP.)

JOINTS DETAIL

ADJUST TO GRADE WITH CONCRETE

-MORTAR ALL JOINTS

DESIGNATION M199

PRECAST IN RISER SECTION

FOR PIPES 18" DIAMETER

AND OVER, 1" COVER

STRUCTURE TO BE

—CRUSHED STONE

CONCRETE CLASS "B"

—1 - #3 BAR AROUND OPENING

(NHDOT ITEM No. 304.4)

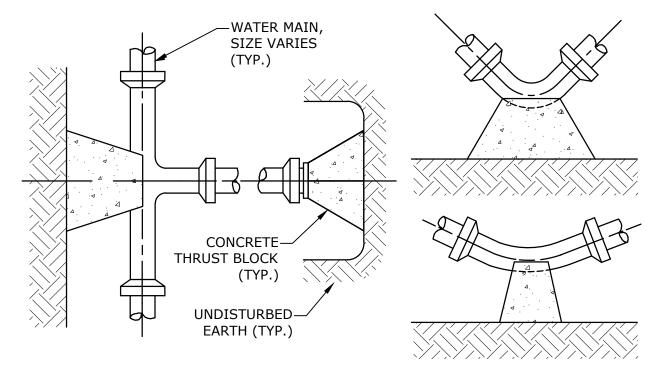
-PIPE OPENING TO BE

-INVERT OF

-MIN. 0.12 sq. in. STEEL PER VERTICAL FOOT, PLACED

ACCORDING TO AASHTO

GRADE RINGS OR CLAY BRICKS, FRAME



200psi	SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL						
TEST PRESSURE = 20	REACTION	PIPE SIZE					
	TYPE	4"	6"	8"	10"	12"	
	A 90°	0.89	2.19	3.82	11.14	17.24	
	B 180°	0.65	1.55	2.78	8.38	12.00	
	C 45°	0.48	1.19	2.12	6.02	9.32	
	D 22-1/2°	0.25	0.60	1.06	3.08	4.74	
•	E 11-1/4°	0.13	0.30	0.54	1.54	2.38	

- 1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
- 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
- 4. WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED
- 5. INSTALLATION AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE WITH CITY OF PORTSMOUTH WATER DEPARTMENT STANDARDS.

THRUST BLOCKING DETAIL

NO SCALE

Longmeadow Road **Extension**

No. 08830

PATRICK

CRIMMINS

No. 12378 No. 12378

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

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MARK	DΔTF	DESCRIPTION

1ARK	DATE	DESCRIPTION
PROJE	CT NO:	P-0714-005
DATE:		October 21, 2019
TLF: P-0714-005-C-DTLS dwg		-DTI S dwa

DRAWN BY

CHECKED: APPROVED:

DETAILS SHEET

NAH/CJł

SCALE: AS SHOWN

C-504

TO BE SET IN FULL BED OF MORTAR.

ALL SECTIONS SHALL BE 4,000 PSI CONCRETE. 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE

3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR

4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING. 5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM

6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL

RUBBER SEALANT. 7. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO

PRECASTING. 8. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE

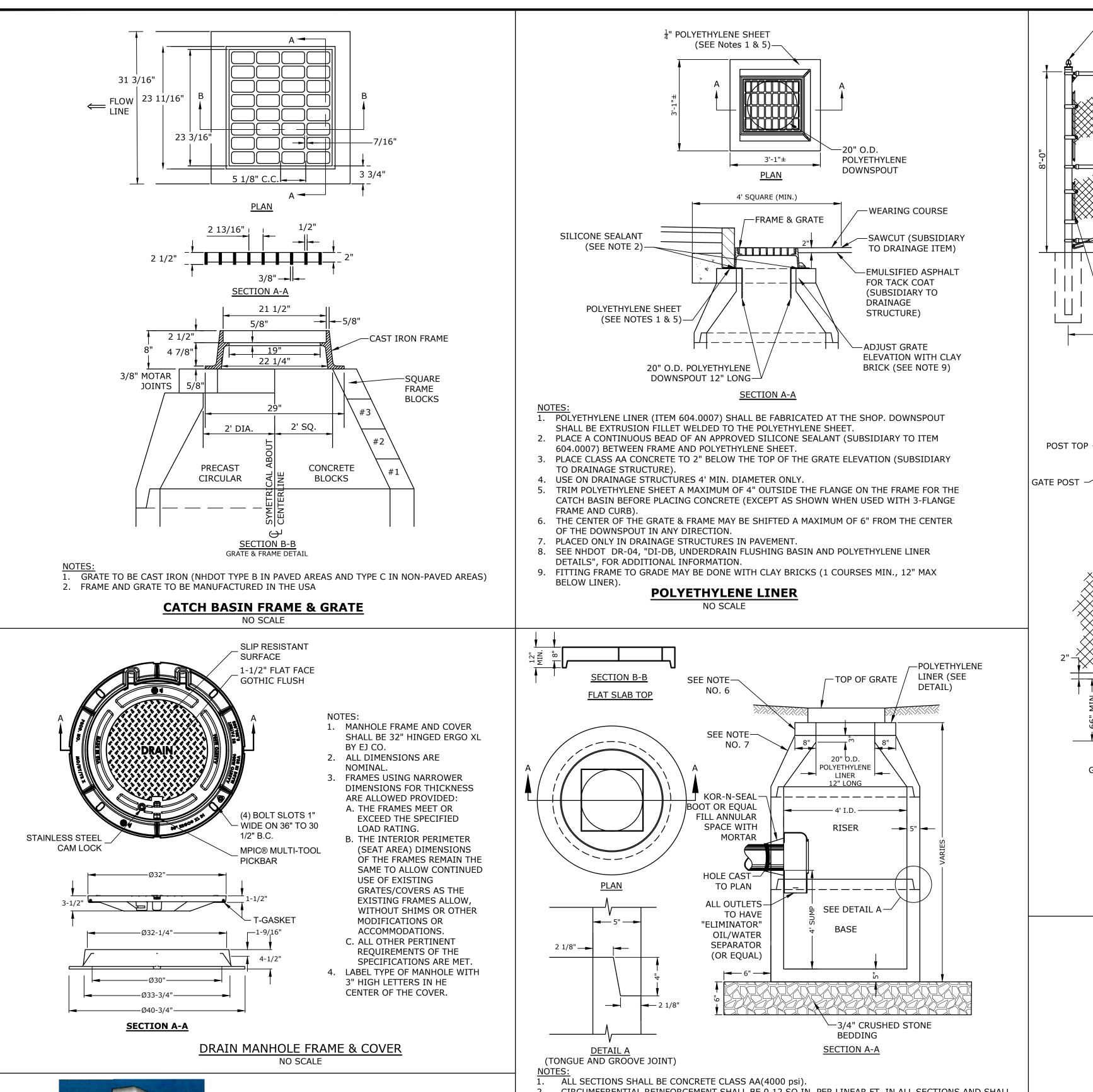
WALL OF STRUCTURE. 9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED

USING AN APPROVED FLEXIBLE SEALANT IN JOINTS. 10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO

11. MANHOLE FRAME AND COVER SHALL BE 32" HINGED ERGO XL BY EJ CO. PER CITY OF PORTSMOUTH STANDARD

	WALL	FLOOR
DIAMETER	THICKNESS	THICKNESS
	(MIN.)	(MIN.)
4'	5"	6"
5'	6"	8"
6'	7"	8"
8'	9"	10"

4' DIAMETER DRAIN MANHOLE NO SCALE

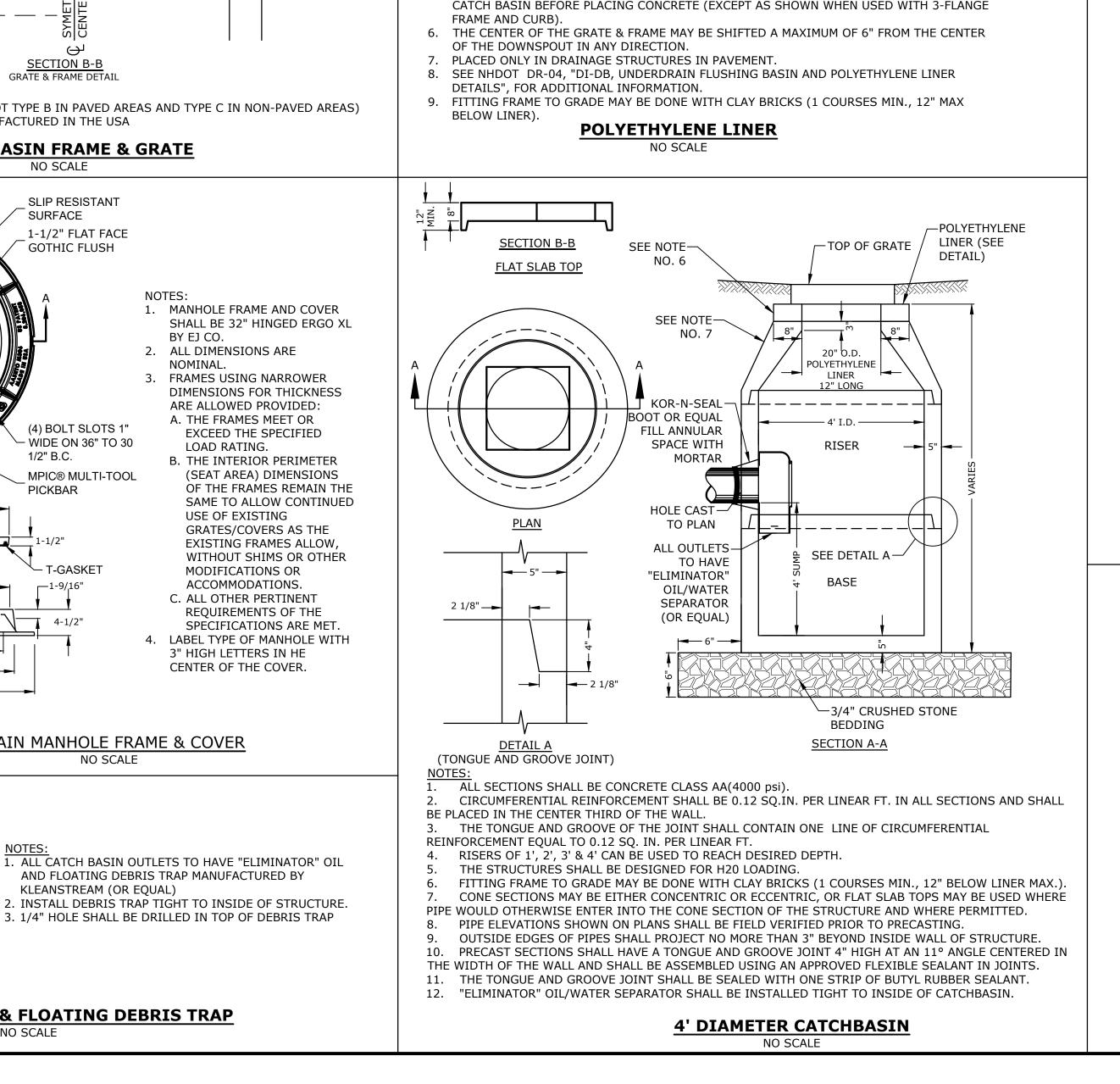


AND FLOATING DEBRIS TRAP MANUFACTURED BY

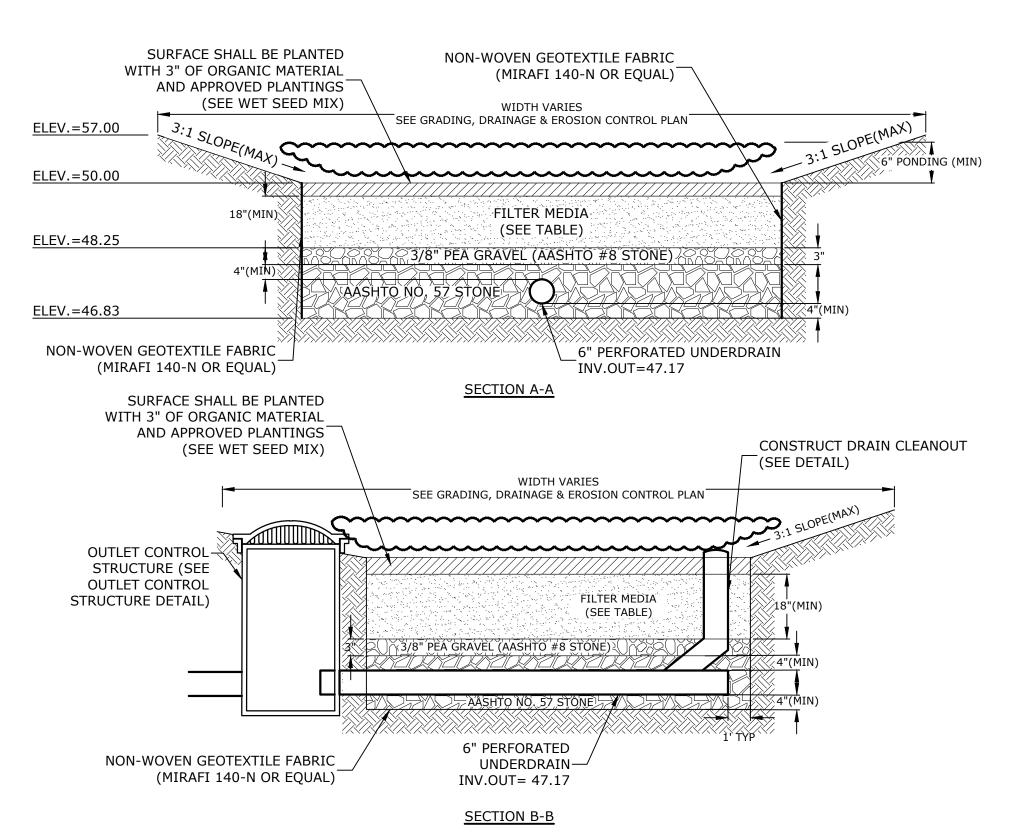
KLEANSTREAM (OR EQUAL)

"ELIMINATOR" OIL & FLOATING DEBRIS TRAP

NO SCALE



—CHAIN LINK FABRIC, TOP ROUND END &-CORNER POST SELVAGE TWISTED -1.66" OD ─45° B/W ARM TOP RAIL —LINE POST —1.66" OD BRACE RAIL **BOTTOM SELVAGE-**LINE POST TIE -TURNBUCKLE -ADJUSTABLE **BOTTOM RAIL** TRUSS ROD -3,500 PSI PORTLAND -TENSION BAR CEMENT CONCRETE 10'-0" MAX. SPACING LINE POSTS **END/CORNER** POSTS **CHAIN LINK FENCE** NO SCALE AS SHOWN (14' OPENING FACE TO FACE) --, |-- 2 1/4" TYP. PATRICK CRIMMINS No. 12378 CENTER GATE STOP GATE LATCH WITH 02/17/2021 PROVISION FOR CHAIN PADLOCK LINK -- GATE POST **FABRIC** Longmeadow Road WELD ALL JOINTS DROP BAR RECEIVER SET **Extension** IN CONCRETE FOOTING 3,500 PSI PORTLAND 6" MIN. DIAMETER FOR GATE POSTS DROP BAR RECEIVER City of ALL FENCING COMPONENTS SHALL BE BLACK VINYL COATED. CHAIN LINK FABRIC SHALL BE MADE OF 9 GAUGE STEEL WIRE, 1" MESH SIZE, AND HOT DIPPED GALVANIZED PRIOR Portsmouth TO WEAVING. ONE EDGE OF THE FABRIC SHALL BE FINISHED WITH A SELVAGE TWIST AND THE OTHER WITH A SELVAGE KNUCKLE. ALL POSTS SHALL BE PLUMB IN ALL DIRECTIONS. 4. LINE & TERMINAL POSTS, BRACE TUBES, TOP RAILS, BOTTOM RAILS, & GATE POSTS SHALL ALL BE SCHEDULE 40 PIPE. REFERENCED DIAMETER IS NOMINAL. GATE FRAME SHALL BE WELDED, USE OF CORNER FITTINGS WILL NOT BE PERMITTED. FOOTING DIMENSIONS ARE PROTOTYPICAL AND NEED TO BE CONFIRMED BY MANUFACTURER FOR CURRENT SITE **DOUBLE SWING GATE** NO SCALE Portsmouth, New Hampshire HYDRANT-Portsmouth #42350 -VALVE BOX THRUST BLOCK X-A004(818) (SEE DETAIL) F 1/29/2021 Final Design Submission E 10/21/2020 NHDOT Comments WATER MAIN D 3/4/2019 Revised AoT Submission 12" CRUSHED STONE C 2/11/2019 P.B. Submission 6" MIN. B 1/7/2019 P.D. Submission A 1/7/2019 AoT Submission -THRUST BLOCK (SEE DETAIL) 6" MJ GATE VALVE-MARK DATE DESCRIPTION CRUSHED STONE-PROJECT NO: P-0714-005 18"x18"x6" CONCRETE BASE ─ -HYDRANT DRAIN October 21, 201 TO BE PLUGGED DRAIN PIT - 3' DIA. x 2'-FILE: P-0714-005-C-DTLS.dwg BELOW HYDRANT DRAWN BY CHECKED: 1. HYDRANT SHALL BE KENNEDY MODEL K-81 PER CITY OF PORTSMOUTH STANDAARDS. 2. INSTALLATION AND OPERATION SHALL BE IN ACCORDANCE WITH THE CITY OF DETAILS SHEET PORTSMOUTH WATER DEPARTMENT AND FIRE DEPARTMENT SCALE: AS SHOWN FIRE HYDRANT C-505



FILTER MEDIA COMPOSITION:

GRADATION OF MATERIAL SIEVE NO. PERCENT PASSING

15-25

5 MAX

SEE NOTE #5

200

200

PERCENT OF MIXTURE

BY VOLUME

50-55

20-30

20-30

- 1. RAIN GARDENS SHALL NOT BE PLACED INTO SERVICE UNTIL THE PRACTICE HAS BEEN PLANTED AND ITS
- CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED. 2. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL KEEP ALL EXCAVATION EQUIPMENT OUTSIDE OF THE LIMIT OF THE RAIN GARDEN.
- 3. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.
- 4. THE SAND PORTION OF THE FILTER MEDIA SHALL MEET THE FOLLOWING GRADATION (ASTM C-33): SIEVE SIZE PERCENT PASSING

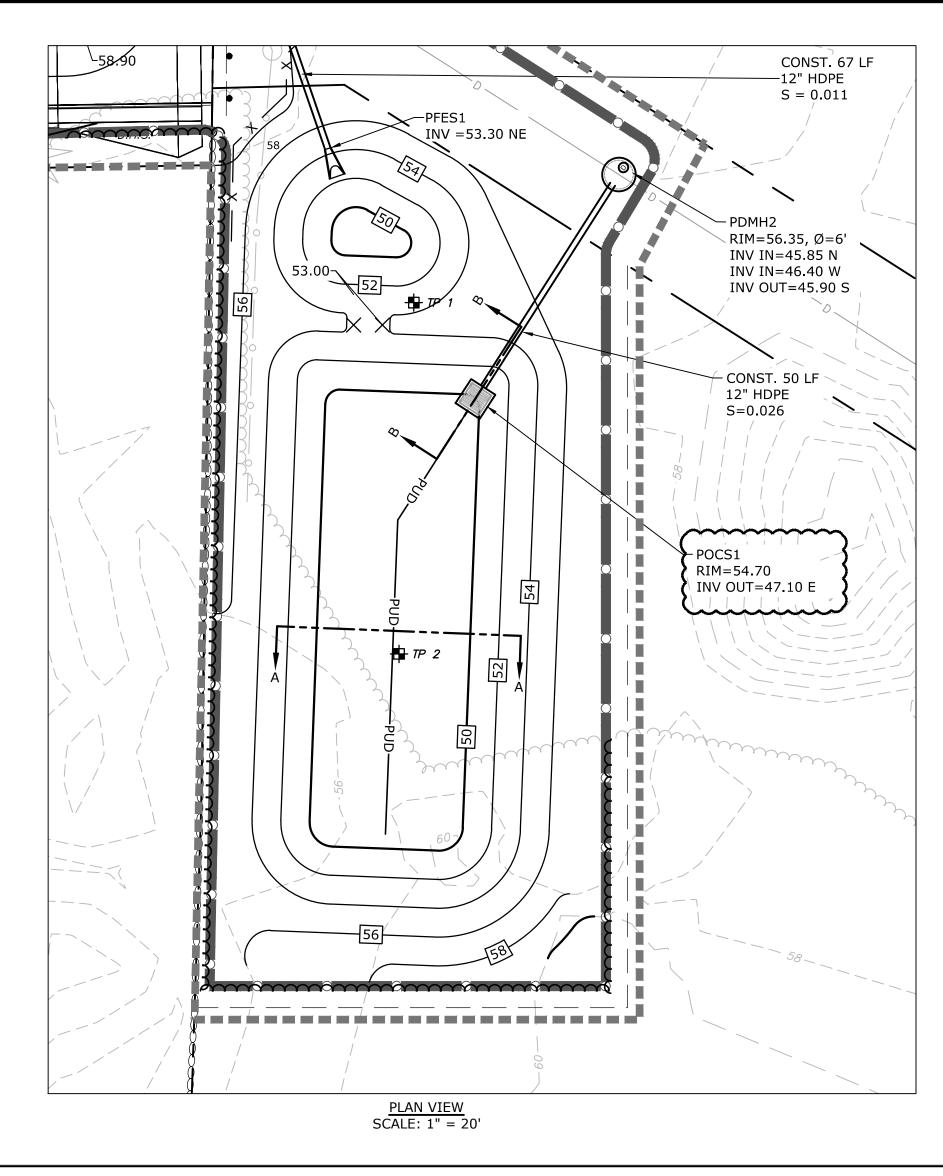
JILVL JIZL	I LINCLINI I ASS.
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	5-30
#100	0-10

AASHTO #8 STONE (#8 to 3/8")		7	AASHTO #57 STONE (#4 to 1")		
SIEVE SIZE	% PASSING	SIEVE SIZE	% PASSING		
1/2"	100	1-1/2"	100		
3/8"	85-100	1"	95-100		
#4	10-30	1/2"	25-60		
#8	0-10	#4	0-10		
#16	0-5	#8	0-5		

WET SEED MIX

- 50% NEW ENGLAND WETLAND PLANTS- NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS & MOIST SITES
- NEW ENGLAND WETLAND PLANTS- NEW ENGLAND CONSERVATION WILDLIFE MIX

RAIN GARDEN DETAIL NO SCALE









Longmeadow Road **Extension**

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

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В	1/7/2019	P.D. Submission
Α	1/7/2019	AoT Submission
MARK	DATE	DESCRIPTION

PROJECT NO:

PPROVED:

October 21, 201 FILE: P-0714-005-C-DTLS.dwg DRAWN BY: CHECKED:

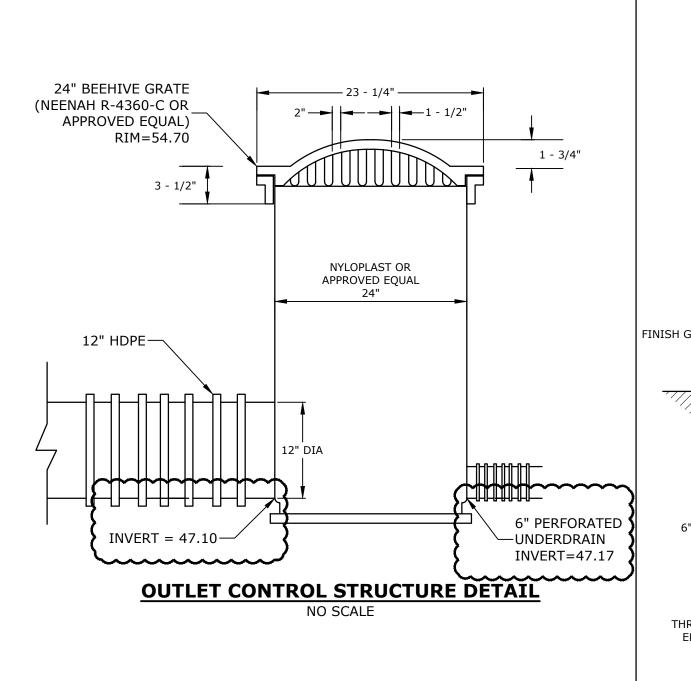
DETAILS SHEET

P-0714-005

NAH/CJł

SCALE: AS SHOWN

CHAIN LINK FENCE ANCHOR POST C-506



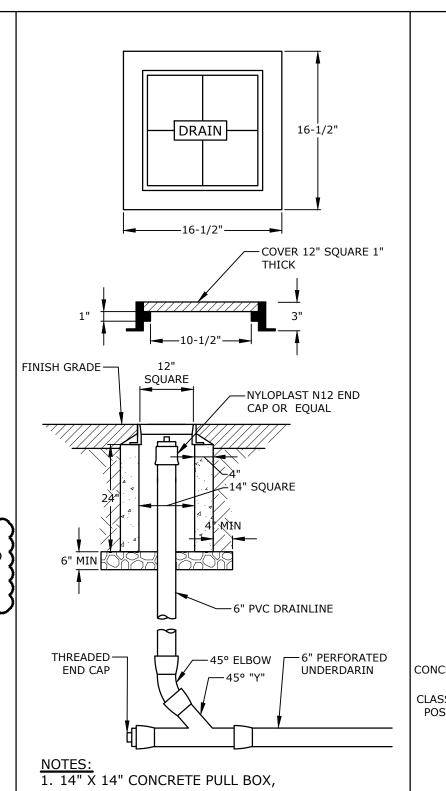
COMPONENT MATERIAL

LOAMY SAND TOPSOIL

ASTM C-33 CONCRETE SAND

MODERATELY FINE SHREDDED

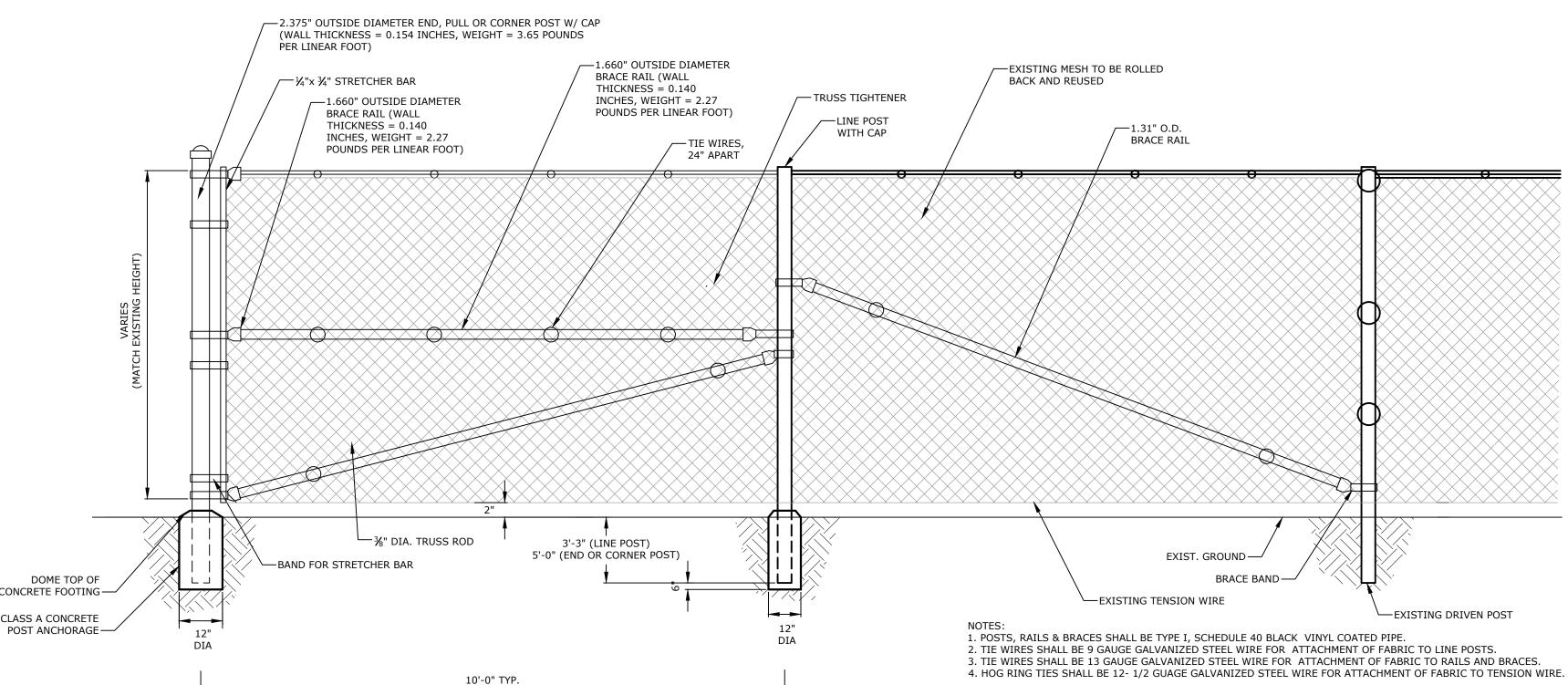
BARK OR WOOD FIBER MULCH



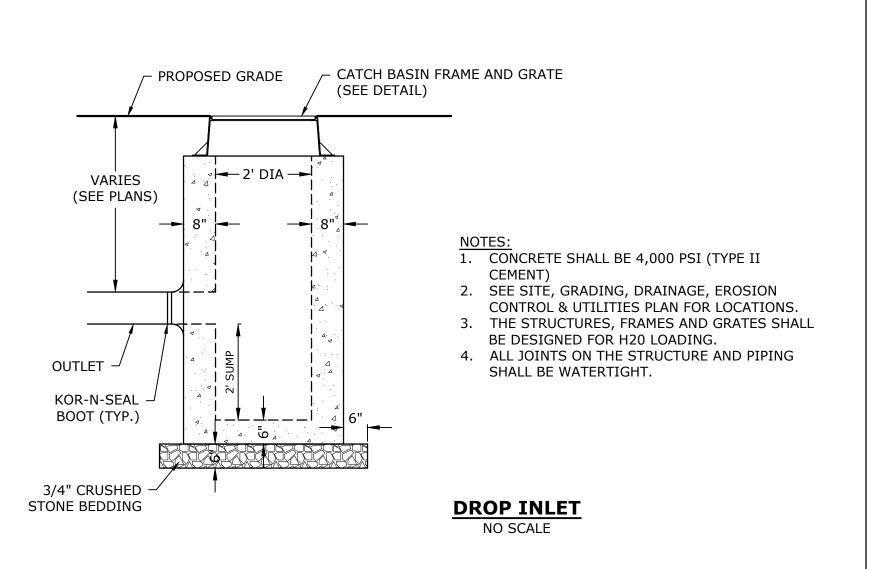
DRAIN CLEAN-OUT

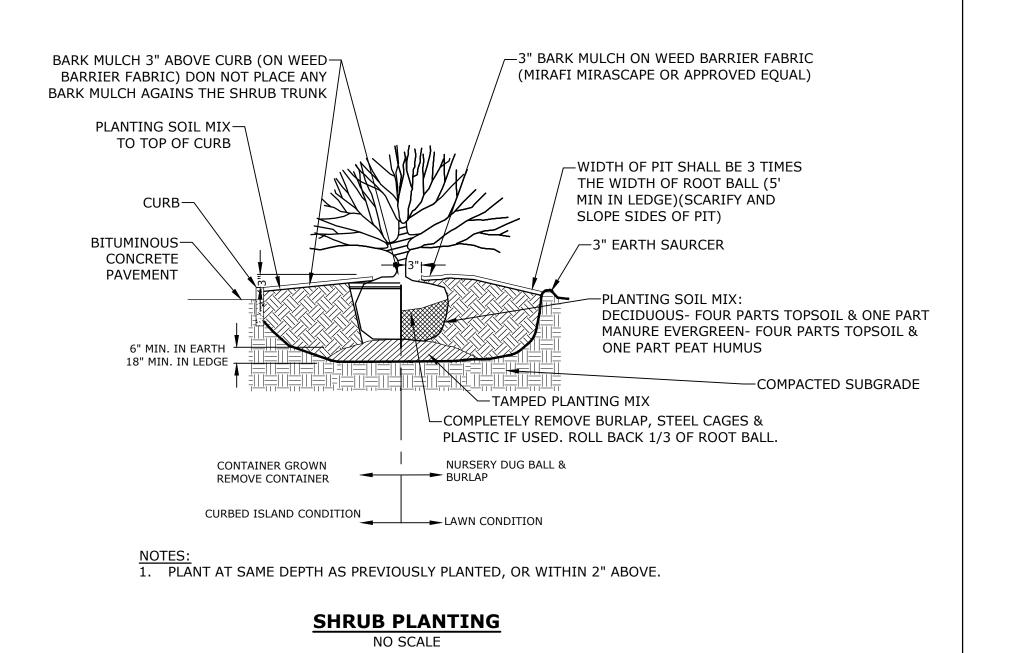
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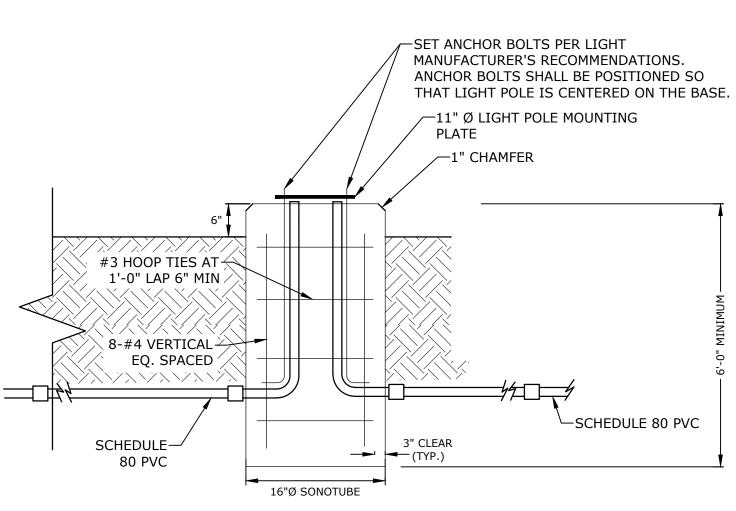
NHDOT ITEM 164.511.



NO SCALE







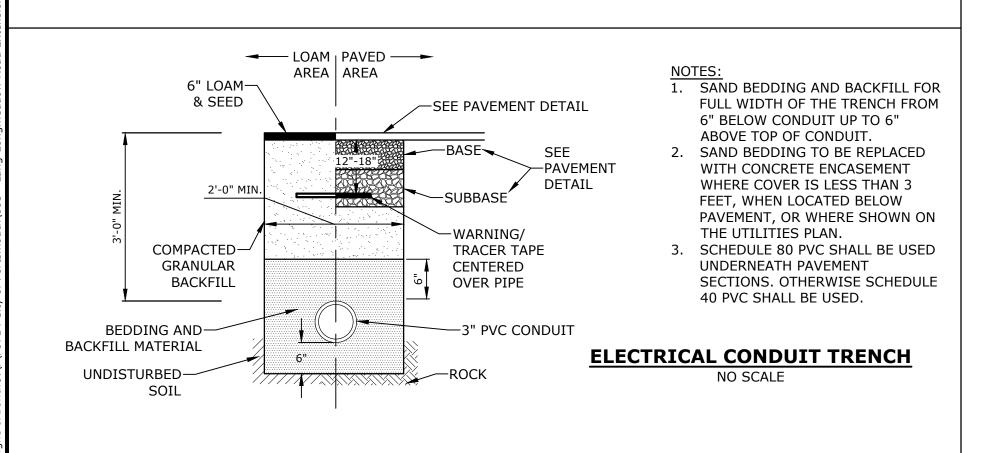
STANDARD BASE

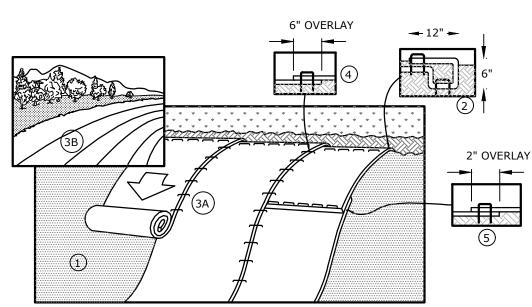
1. REFER TO ELECTRICAL PLANS FOR WIRING DETAILS. 2. CONCRETE: 4000 PSI, CLASS A, PRE-CAST CONCRETE

NOTES:

- 3. REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- 4. CONTRACTOR SHALL VERIFY BOLT TEMPLATE AND ANCHOR BOLT SIZE WITH POLE MANUFACTURER PRIOR TO
- 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, TO INCLUDE PERFORMANCE SPECIFICATIONS, CALCULATIONS AND NH LICENSED STRUCTURAL ENGINEER'S STAMP FOR LIGHT POLE FOUNDATION.

LIGHT POLE BASE





PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12"

ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.

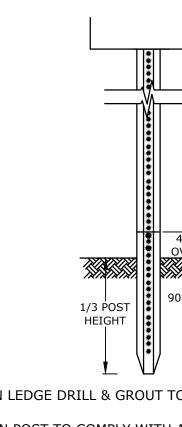
STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.

EROSION CONTROL BLANKET SHALL BE 'NORTH AMERICAN GREEN BCN150' OR APPROVED EQUAL.

SEE NOTES ON COVER SHEET RELATING TO ENDANGERED SPECIES, NH F&G ACCESS AND EROSION AND SEDIMENT

CONTROL PRODUCT REQUIREMENTS.

STABILIZATION BLANKET NO SCALE

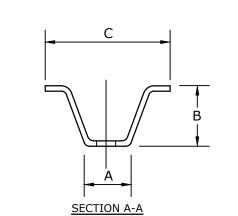


* IN LEDGE DRILL & GROUT TO A MIN OF 2'

SIGN POST TO COMPLY WITH ALL ASPECTS OF NHDOT SECTION 615.

LENGTH: AS REQUIRED WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.) HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH TEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASSTM A-576 (GRADE 1070 - 1080) FINISH: SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.

- 1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 91 LBS. OR GREATER PER LINEAR YARD.
- 2. AFTER FABRICATION, ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A 123.
- 3. ALL SIGN POSTS SHALL HAVE "BREAKAWAY" FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS-1985." THE "BREAKAWAY" FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 4. TYPE A POSTS 3 LB/FT TYPE B POSTS 4 LB/FT. 5. ALL SIGNS TO BE CONSTRUCTED PER THE LATEST EDITION OF THE FHWA STANDARD HIGHWAY SIGNS MANUAL AND INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 6. MEET REQUIREMENTS OF SECTION 615 SIGNS OF NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION, AS AMENDED.



WT.	А	В	С
3 LBS	1 5/8" OR 1 5/16"	1 ³ / ₄ " OR 1 ⁷ / ₈ "	3 ½"
4 LBS	1 5 "	$1\frac{3}{4}$ "	3 <u>1</u> "

SIGN POST NO SCALE

Longmeadow **Extension**

PATRICK

CRIMMINS

No. 12378

8/11/2021///

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

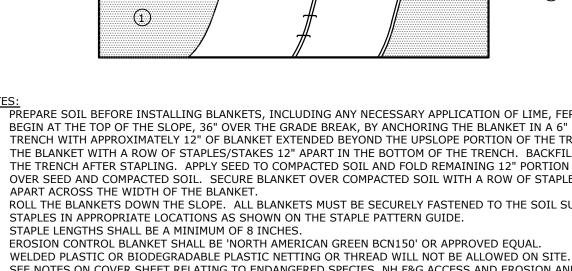
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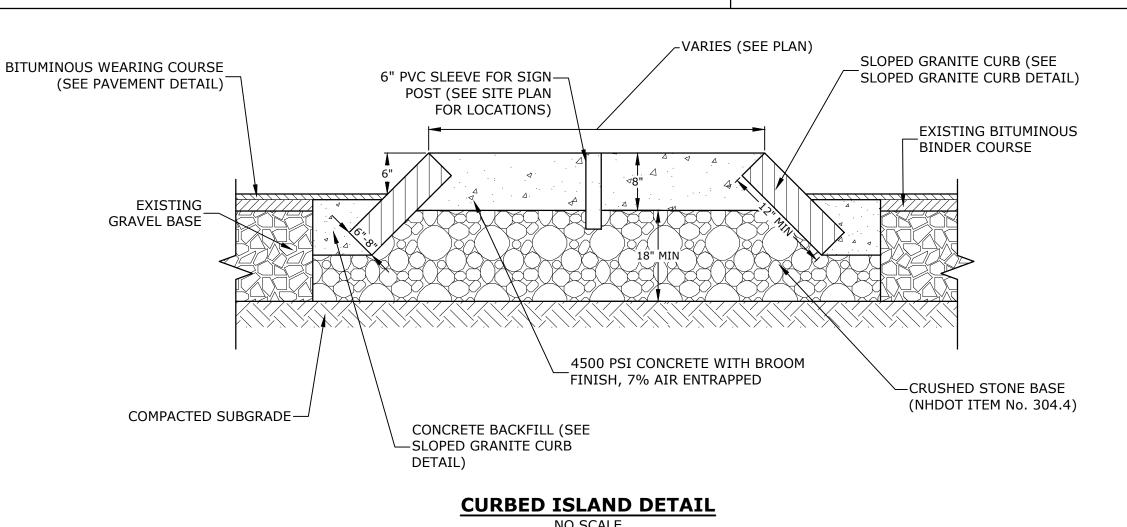
APPROVED:

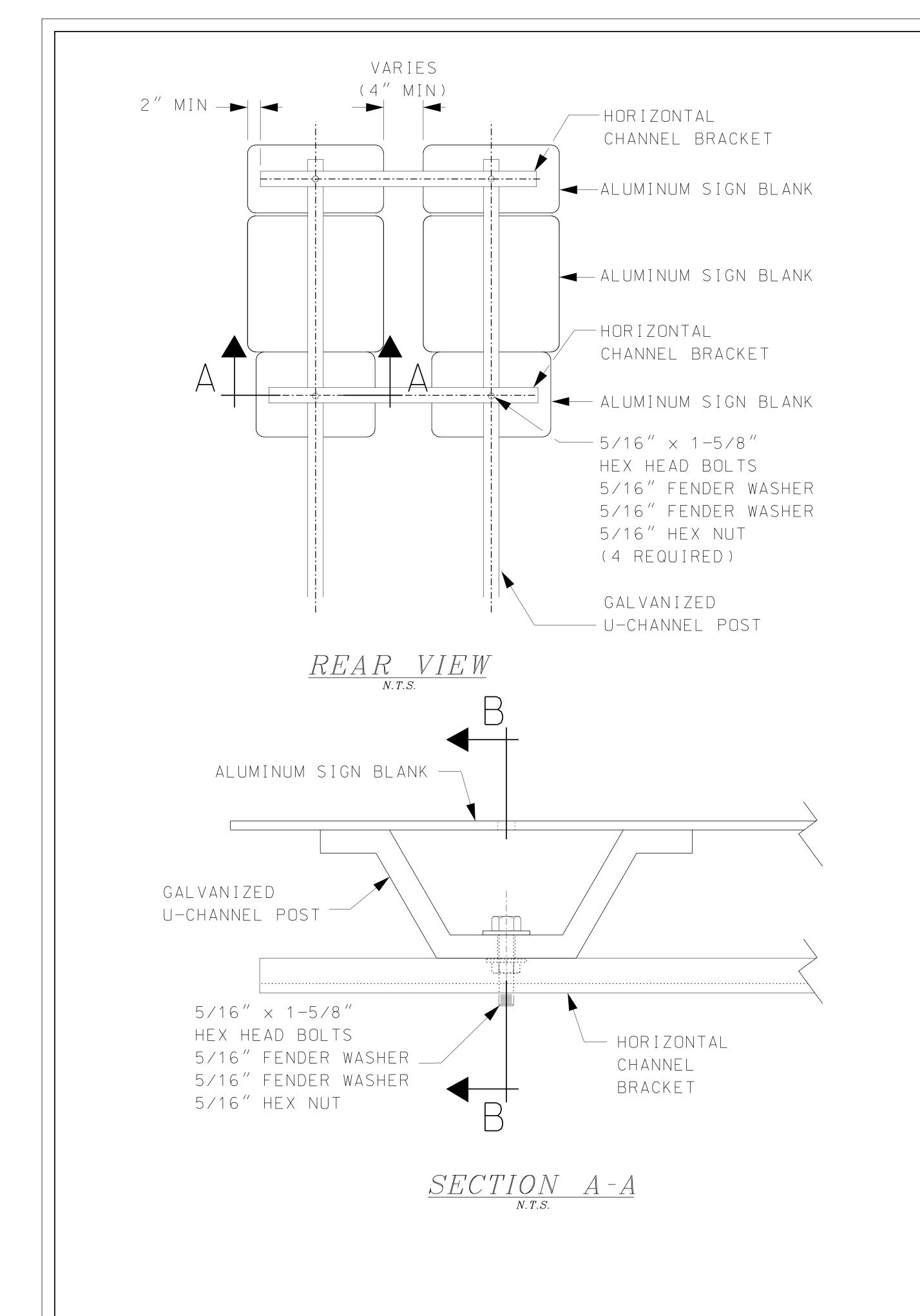
October 21, 201 FILE: P-0714-005-C-DTLS.dwg DRAWN BY: NAH/CJ CHECKED:

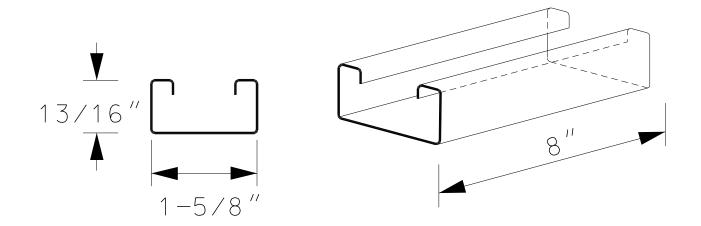
DETAILS SHEET

SCALE: AS SHOWN

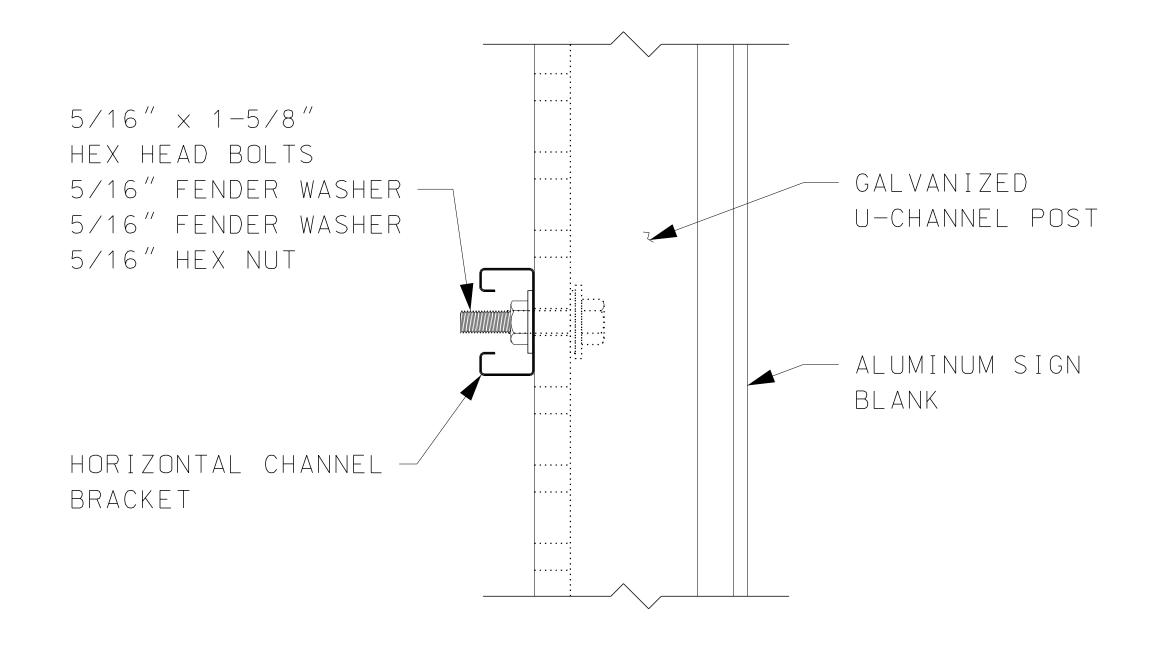








CHANNEL BRACKET 14 GAUGE N.T.S.



SECTION B-B

N.T.S.

GENERAL NOTES

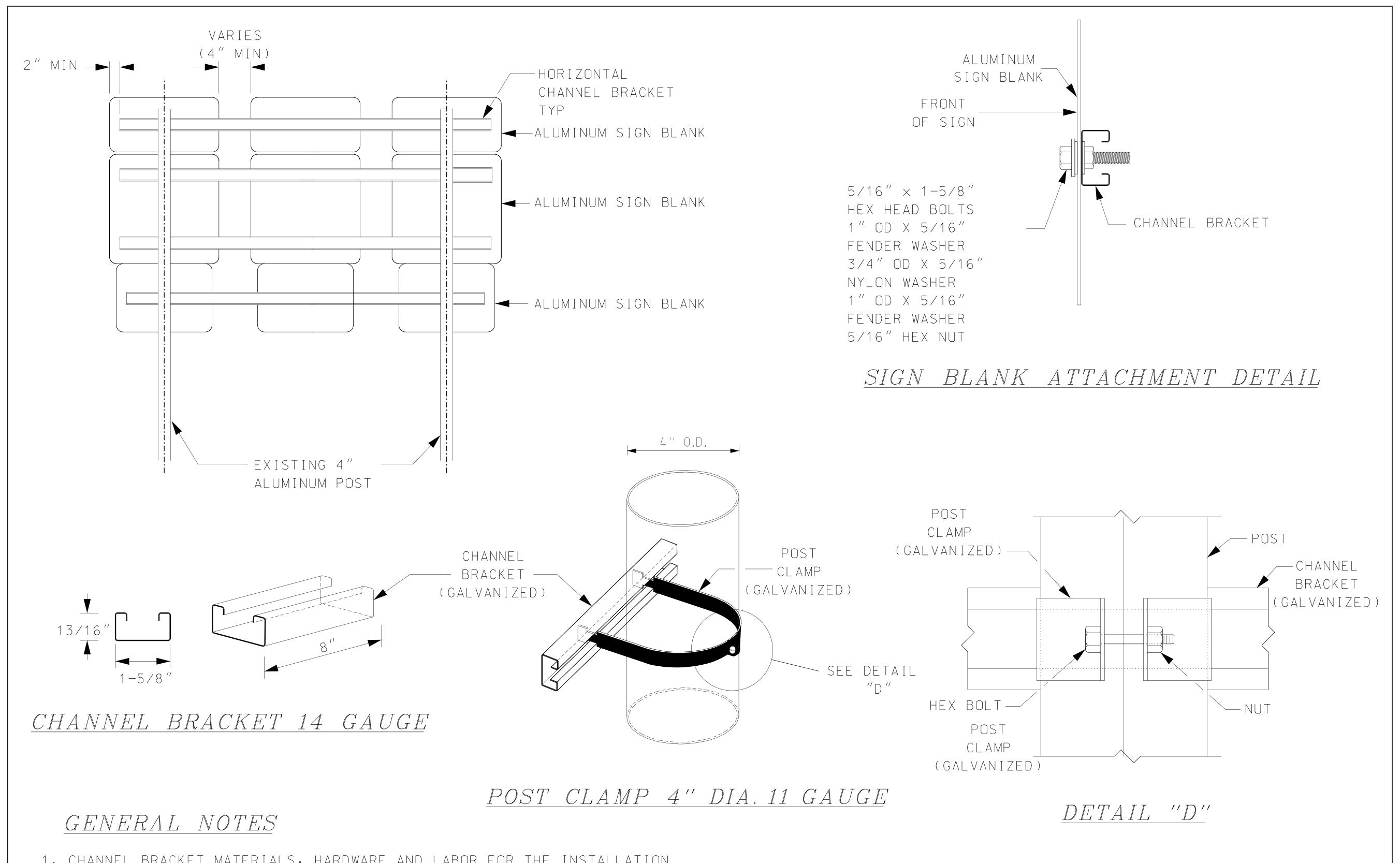
- 1. CHANNEL BRACKET MATERIALS, HARDWARE AND LABOR FOR THE INSTALLATION AS SHOWN SHALL BE SUBSIDIARY TO ITEM 615.0301.
- 2. ALL BOLTS, WASHERS, AND NUTS ARE TO BE STAINLESS STEEL. FENDER WASHERS SHALL BE A MINIMUM OF 1-INCH OUTSIDE DIAMETER.
- 3. FOR ADDITIONAL SIGN INSTALLATION DETAILS SEE NHDOT STANDARD PLANS FOR ROAD CONSTRUCTION AND THE LATEST EDITION OF NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MODEL

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF TRAFFIC					
ROUTE MARKER POST ASSEMBLY DETAIL					
DGN STATE PROJECT NO. SHEET NO. SHEET TOTAL					

10-14-2020

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STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF TRAFFIC

ROUTE MARKER
POST ASSEMBLY DETAIL

MODEL

DGN STATE PROJECT NO. SHEET NO. SHEET TOTAL

10-14-2020

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