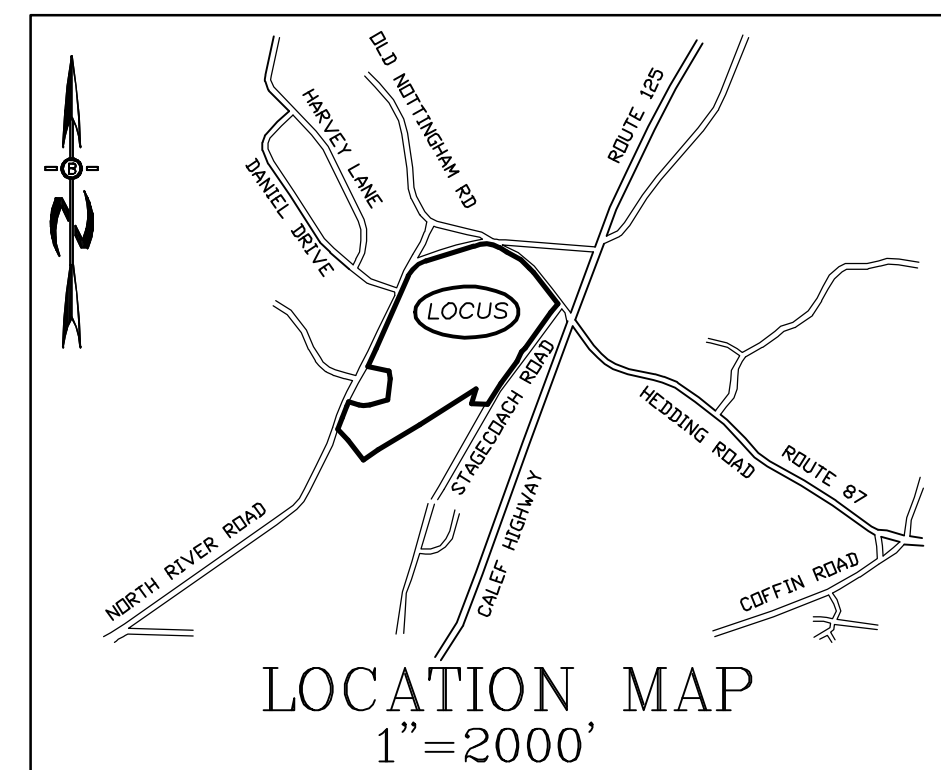
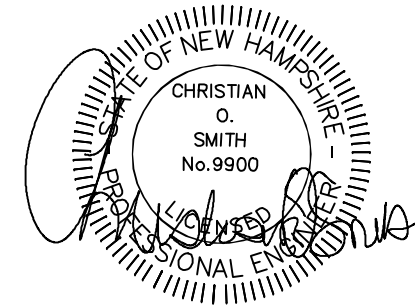


ARBORWOOD RIDGE SUBDIVISION NORTH RIVER ROAD (MAP 16 LOT 29)

CIVIL ENGINEERS:

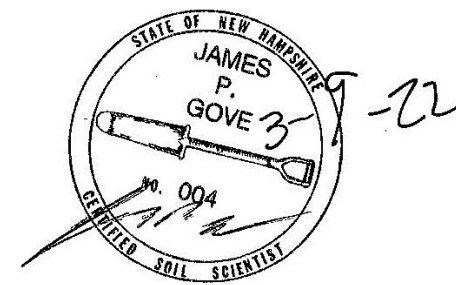


70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863







WETLAND / SOIL
CONSULTANT:

GOVE ENVIRONMENTAL SERVICES INC.
8 CONTINENTAL DRIVE,
BLDG 2 UNIT H
EXETER, NH 03833
1-603-778-0644



INDEX	
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SUBDIVISION BOUNDARY PLANS	1-2
EXISTING CONDITION PLANS	3-4
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PLAN & PROFILES	8-9
DRAINAGE POND PLAN	10
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CONSTRUCTION DETAIL PLAN	12
EROSION & SEDIMENT CONTROL DETAILS	13

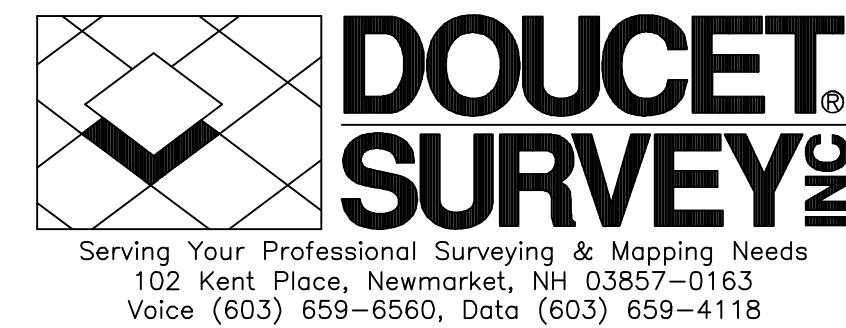
SEEKING REPORTS OF RARE TURTLES
The NH Fish & Game Department is collecting observations of four turtle species:

	<p>Blanding's turtle (state endangered)</p> <ul style="list-style-type: none"> • Large, dark/black domed shell with lighter speckles • Distinct yellow throat/chin • Aquatic but often moves on land
	<p>Wood turtle (special concern)</p> <ul style="list-style-type: none"> • Sculpted, pyramidal brownish shell • Orange around neck and limbs • River/stream turtle spending many months on land
	<p>Eastern box turtle (state endangered)</p> <ul style="list-style-type: none"> • Small terrestrial turtle with highly domed shell • Irregular yellow or orange markings over brown/black base
	<p>Spotted turtle (state threatened)</p> <ul style="list-style-type: none"> • Small, mostly aquatic with black or dark brown with yellow spots. • Fairly flat shell compared to Blanding's turtle

Report sightings to RAARF@wildlife.nh.gov or 603-271-2461. Please report promptly, noting specific location and date. Photographs strongly encouraged.

TURTLES HAVE BEEN REPORTED IN THE AREA. IF TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, PLEASE CONTACT MELISSA DOPERALSKI AT 271-1738 or JOSH MEGYESY AT 271-1125 FOR FURTHER INSTRUCTIONS

LAND SURVEYOR:



PLAN SET LEGEND

<ul style="list-style-type: none"> 5/8" REBAR DRILL HOLE CONC. BOUND UTILITY POLE DRAIN MANHOLE EXISTING CATCH BASIN PROPOSED CATCH BASIN PINES, ETC. MAPLES, ETC. EXIST. SPOT GRADE PROP. SPOT GRADE SINGLE POST SIGN 	<ul style="list-style-type: none"> OVERHEAD ELEC. LINE FENCING DRAINAGE LINE STONE WALL TREE LINE ABUT. PROPERTY LINES EXIST. PROPERTY LINES BUILDING SETBACK LINES EXIST. CONTOUR PROP. CONTOUR SOIL LINES 	<ul style="list-style-type: none"> —OH— —x— —D—D— —x—x—x— —wavy— —dashed— —dotted— —100— —100—
--	--	---

LAND OWNERS:

JOHN & BECKY FAUNCE LIV.TRUST
2417 LEARY BAY CIRCLE
ANCHORAGE, AK 99515

DEVELOPER:

CHINBURG DEVELOPMENT
3 PENSTOCK WAY
NEWMARKET, NH 03857

REQUIRED PERMITS

NHDES SUBDIVISION APPROVAL NUMBER: eSA2022031001
EPA NOI: PENDING

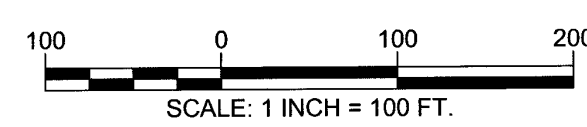
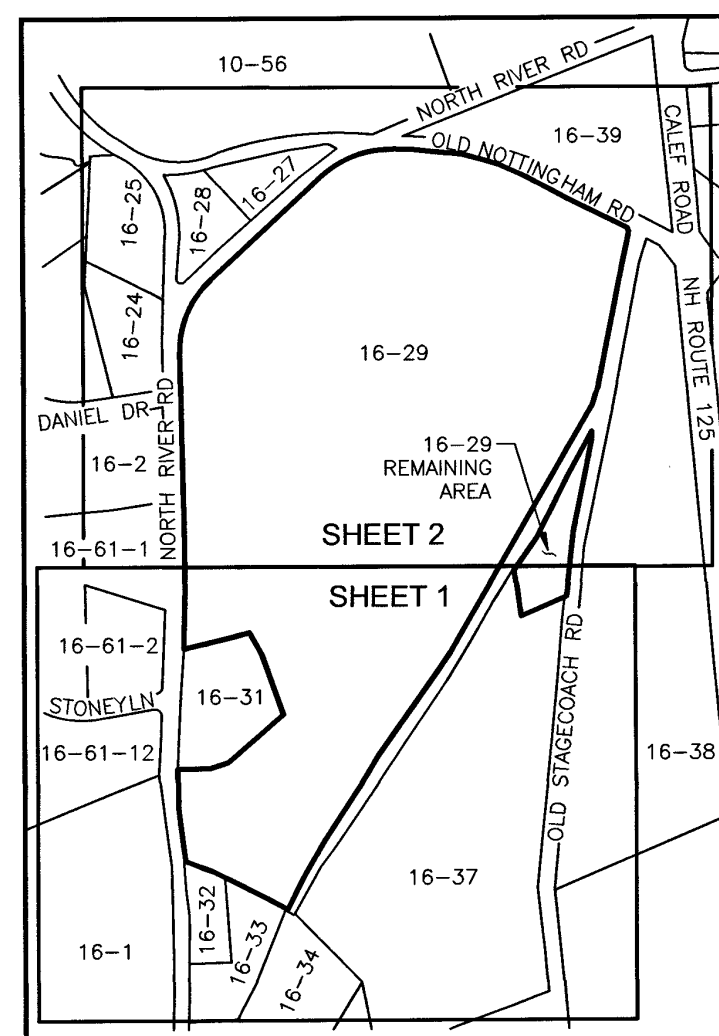
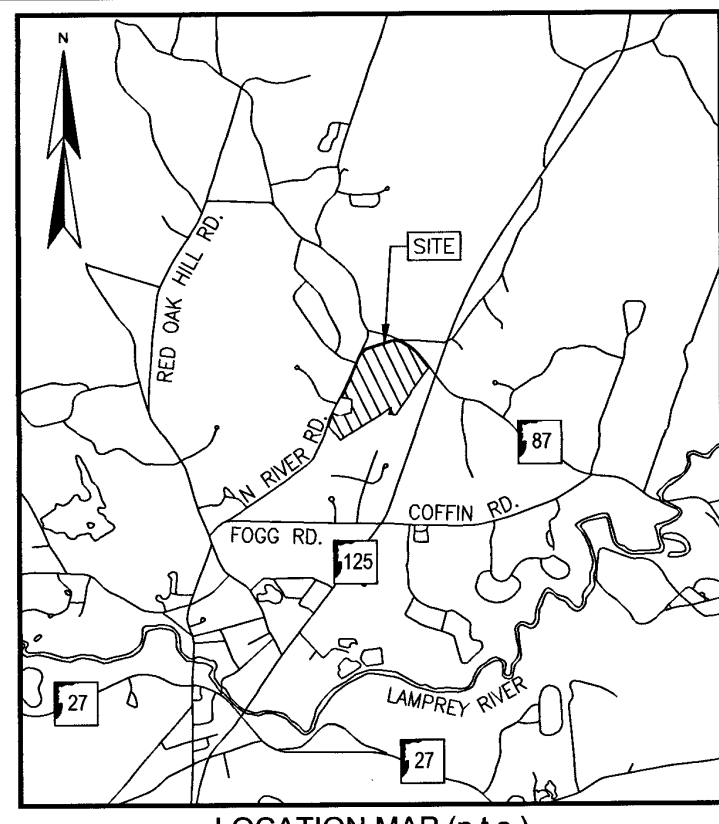
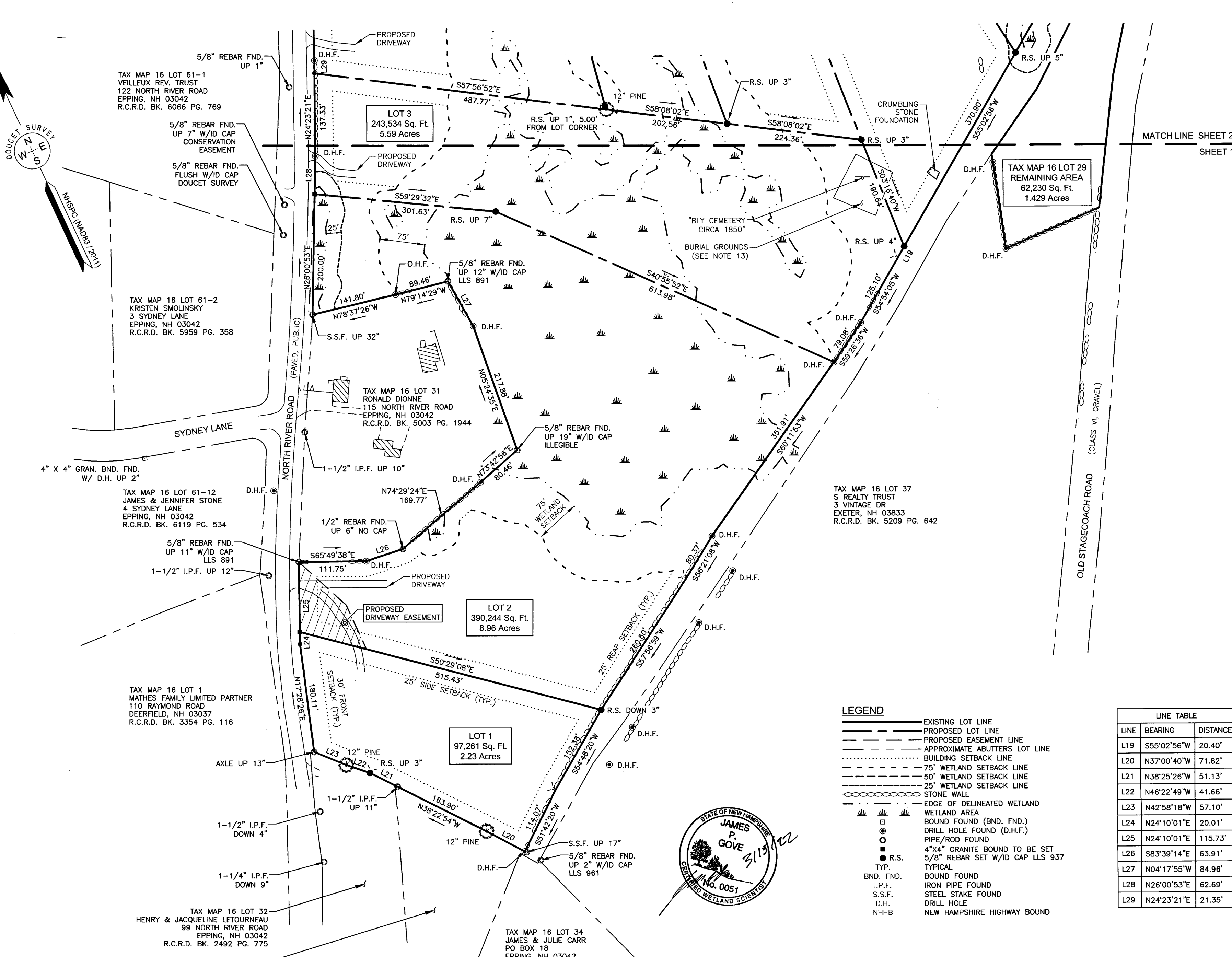
REVISIONS:	DATE:
REVISED PER ENG. REVIEW	11-22-21
REVISED PER ENG. REVIEW	12-14-21
REVISED PER NHDES SUBSURFACE REVIEW	1-18-22
REVISED PER NOD	2-22-22

NOTES:

- REFERENCE: TAX MAP 16, LOT 29
 NORTH RIVER ROAD
 EPPING, NEW HAMPSHIRE
 D.S. PROJECT NO. 7059
 - TOTAL PARCEL AREA: LOT 29: 55.745 AC. OR 2,428,258 SQ. FT.
 REMAINDER AREA: 1.429 AC. OR 62,230 SQ. FT.
 - OWNER OF RECORD: JOHN AND BECKY FAUNCE LIVING TRUST
 2177 LEARY BAY CIRCLE
 ANCHORAGE, AK 99515
 R.C.R.D. BOOK 6293, PAGE 755
 - ZONE: RURAL RESIDENTIAL & HIGHWAY COMMERCIAL
 RURAL RESIDENTIAL DIMENSIONAL REQUIREMENTS:
 MIN. LOT AREA 88,000 sq.ft.
 MIN. FRONTAGE 200 ft.
 MIN. FRONT SETBACK 30 ft.
 MIN. SIDE/REAR SETBACK 25 ft.
 COMMERCIAL USE BUFFER 100 ft.
 MAX. BUILDING HEIGHT 35 ft.
 MAX. BUILDING COVERAGE 25 %
 WETLAND LESS THAN 10,000 sq.ft. 25 ft.
 WETLAND GREATER THAN 10,000 sq.ft. 50 ft.
 WETLAND GREATER THAN 1 ACRE 75 ft.
- ZONING INFORMATION LISTED HEREON IS BASED ON THE TOWN OF EPPING ZONING ORDINANCE DATED 2020 AS AVAILABLE ON THE TOWN WEBSITE ON THE DATE RESEARCHED. ADDITIONAL REGULATIONS APPLY, AND REFERENCE IS HEREBY MADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS.
- FIELD SURVEY PERFORMED BY J.H.H. & K.J.L. (DOUCET SURVEY) DURING AUGUST & SEPTEMBER 2021 USING A TRIMBLE S7 TOTAL STATION AND A TRIMBLE R12 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 - AERIAL TOPOGRAPHY WAS CONDUCTED BY EASTERN TOPOGRAPHICS FROM IMAGES TAKEN DURING APRIL 26, 2005 WITH A PHOTO SCALE OF 1:4800. CONTOURS AND OBJECTS SHOWN WITHIN OBTAINED AREAS ARE APPROXIMATE AND SHOULD BE VERIFIED BEFORE USE FOR DESIGN OR CONSTRUCTION PURPOSES.
 - HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
 - JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING AUGUST 2021 IN ACCORDANCE TO THE U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JANUARY, 1987).
 +REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEAST AND NORTHEAST REGION (2012)
 +NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1), U.S. FISH AND WILDLIFE SERVICE (2013).
 +CODE OF ADMINISTRATIVE RULES, WETLANDS BOARD, STATE OF NEW HAMPSHIRE (CURRENT).
 +FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.0, 2016 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4. NEHSTC (MAY 2017).
 - FLOOD HAZARD ZONE: "X", PER FIRM MAP 33015C0220F, DATED 1/29/21.
 - THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 - 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 ROADS AS DEPICTED HEREON ARE BASED ON RESEARCH CONDUCTED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS AND EPPING TOWN HALL.
 - 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.
 - CEMETERY SUBJECT TO N.H.R.S.A. 289:3, III NEW CONSTRUCTION, EXCAVATION, OR BUILDING IN THE AREA OF A KNOWN BURIAL SITE SHALL COMPLY WITH LOCAL ZONING. IN ABSENCE OF SUCH REGULATIONS NO NEW CONSTRUCTION, EXCAVATION, OR BUILDING SHALL BE CONDUCTED WITHIN 25' OF THE BOUNDARY OF THE BURIAL GROUND.
 A SITE MEETING WAS HELD ON 10/12/21 WITH THE CEMETERY COMMITTEE; THE COMMITTEE POINTED OUT HEADSTONE LOCATIONS (SHOWN HEREON) AND HUNG A SIGN NEARBY READING "BLY CEMETERY CIRCA 1850". THE COMMITTEE BELIEVES THE STONE PILES IN THE AREA OF THE CEMETERY AS INDICATED ON EPPING TAX MAP 16, LOT 29 ARE NO MORE THAN STONE PILES FROM CLEARING OF FIELDS.
 - NHDES SUBDIVISION APPROVAL NUMBER: ESA2022031001.

REFERENCE PLANS:

- "SUBDIVISION OF LAND SITUATED IN EPPING, N.H." DATED DECEMBER 1975 BY H.A.P. ASSOCIATES R.C.R.D. PLAN D-8638.
- "SUBDIVISION OF PLAN FOR HENRY J. LETOURNEAU SR. IN EPPING, N.H." DATED SEPTEMBER 1977 BY PARKER SURVEY ASSOC., INC. R.C.R.D. PLAN D-7582.
- "A PLAN OF A SUBDIVISION OF LAND BEING TRANSFERRED FROM HENRY J. LETOURNEAU, SR. TO ROBERT B. & CLAIRE M. HICKS AND PAUL A. & KATHLEEN ROSE PRATT, SR. SITUATED IN EPPING, N.H." DATED OCTOBER 6, 1978 BY R.S.L. LAYOUT & DESIGN R.C.R.D. PLAN D-8356.
- "LOT LINE REVISION PLAN PREPARED FOR HENRY J. JR. & JACQUELINE LETOURNEAU (TAX MAP 16 LOTS 32 & 33) 95 & 99 NORTH RIVER ROAD EPPING, NH" DATED JANUARY 16, 2013 BY BOUDREAU LAND SURVEYING P.L.L.C. R.C.R.D. PLAN D-37618.
- "BOUNDARY PLAN OF THE LAND OF ROBERT G. & AMOGENE T. KIMBALL EPPING, N.H." DATED NOVEMBER 22, 1988 BY HOLDEN ENGINEERING & SURVEYING INC.
- "SUBDIVISION PLAN OF TAX MAP 2--LOT 35 IN EPPING, N.H." DATED NOVEMBER 20, 1986 BY JAMES M. LAVELLE ASSOCIATES R.C.R.D. PLAN C-15964.
- "SUBDIVISION OF LAND FOR MICHAEL ERLUNDSON IN EPPING N.H." DATED APRIL 1985 BY BRUCE PODOPEK R.L.S. R.C.R.D. PLAN C-14510.
- "MAP 2 PARCEL 35 SUBDIVISION PLAN OF LAND IN EPPING, N.H. AS DRAWN FOR ROYANNE RICHARDS" DATED MAY 15, 1987 BY JAMES M. LAVELLE ASSOCIATES R.C.R.D. PLAN D-18948.
- "BOUNDARY SURVEY OF THE LAND OF ROBERT G. & AMOGENE T. KIMBALL EPPING, N.H." DATED OCTOBER 13, 1988 BY HOLDEN ENGINEERING & SURVEYING INC. R.C.R.D. PLAN D-20242.
- "SUBDIVISION PLAN FOR LAKE REALTY TRUST JOHN D. & EMILY JALBERT TRUSTEES (TAX MAP 16, LOT 61) NORTH RIVER ROAD EPPING, NEW HAMPSHIRE" DATED OCTOBER 6, 2004 BY DOUCET SURVEY INC R.C.R.D. PLAN D-32717.
- "BOUNDARY PLAN OF LAND TAX MAP 16 LOT 39 NH ROUTE 125 (CALEF HIGHWAY), NORTH RIVER & OLD NOTTINGHAM ROADS EPPING, NH" DATED NOVEMBER 5, 2015 BY ERIC C. MITCHELL & ASSOC. INC. R.C.R.D. PLAN D-39171.



SUBDIVISION PLAN
 FOR
CHINBURG BUILDERS
 LAND OF
JOHN AND BECKY FAUNCE
 LIVING TRUST
 TAX MAP 16, LOT 29
 NORTH RIVER ROAD
 EPPING, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
3	3/14/22	ADD DES APPROVAL & SET MONUMENTS	J.F.K.
2	12/14/21	ADD DRAIN. EASE. TO LOT 19	J.F.K.
1	11/23/21	REVISED LOT LAYOUT	M.T.L.

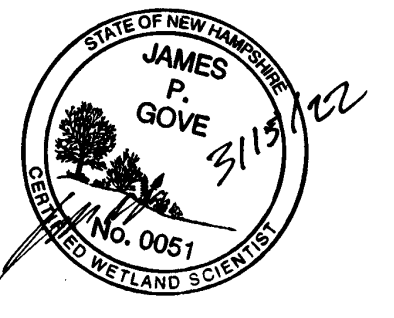
DRAWN BY:	M.T.L.	DATE:	OCTOBER 20, 2021
CHECKED BY:	J.F.K.	DRAWING NO.:	7059B
JOB NO.:	7059	SHEET	1 OF 2

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<http://www.doucetsurvey.com>

LEGEND

- EXISTING LOT LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- APPROXIMATE ADJUTERS LOT LINE
- BUILDING SETBACK LINE
- 75' WETLAND SETBACK LINE
- 50' WETLAND SETBACK LINE
- 25' WETLAND SETBACK LINE
- STONE WALL
- EDGE OF DELINEATED WETLAND
- WETLAND AREA
- BOUND FOUND (BND. FND.)
- DRILL HOLE FOUND (D.H.F.)
- PIPE/ROD FOUND
- 4"x4" GRANITE BOUND TO BE SET
- 5/8" REBAR SET W/D CAP LLS 937
- TYP. BOUND FOUND
- IRON PIPE FOUND
- STEEL STAKE FOUND
- DRILL HOLE
- NHNB NEW HAMPSHIRE HIGHWAY BOUND

LINE	BEARING	DISTANCE
L19	S55°02'56"W	20.40'
L20	N37°00'40"W	71.82'
L21	N38°25'26"W	51.13'
L22	N46°22'49"W	41.66'
L23	N42°58'18"W	57.10'
L24	N24°10'01"E	20.01'
L25	N24°10'01"E	115.73'
L26	S83°39'14"E	63.91'
L27	N04°17'55"W	84.96'
L28	N26°00'53"E	62.69'
L29	N24°23'21"E	21.35'



APPROVED BY THE EPPING PLANNING BOARD

Joseph Chapman 12.9.21
 CHAIRPERSON DATE
Hester Clark 12.9.21
 MEMBER DATE
Susan Wilcox 12.9.21
 MEMBER DATE
Dave Rainbolt 12.9.21
 MEMBER DATE

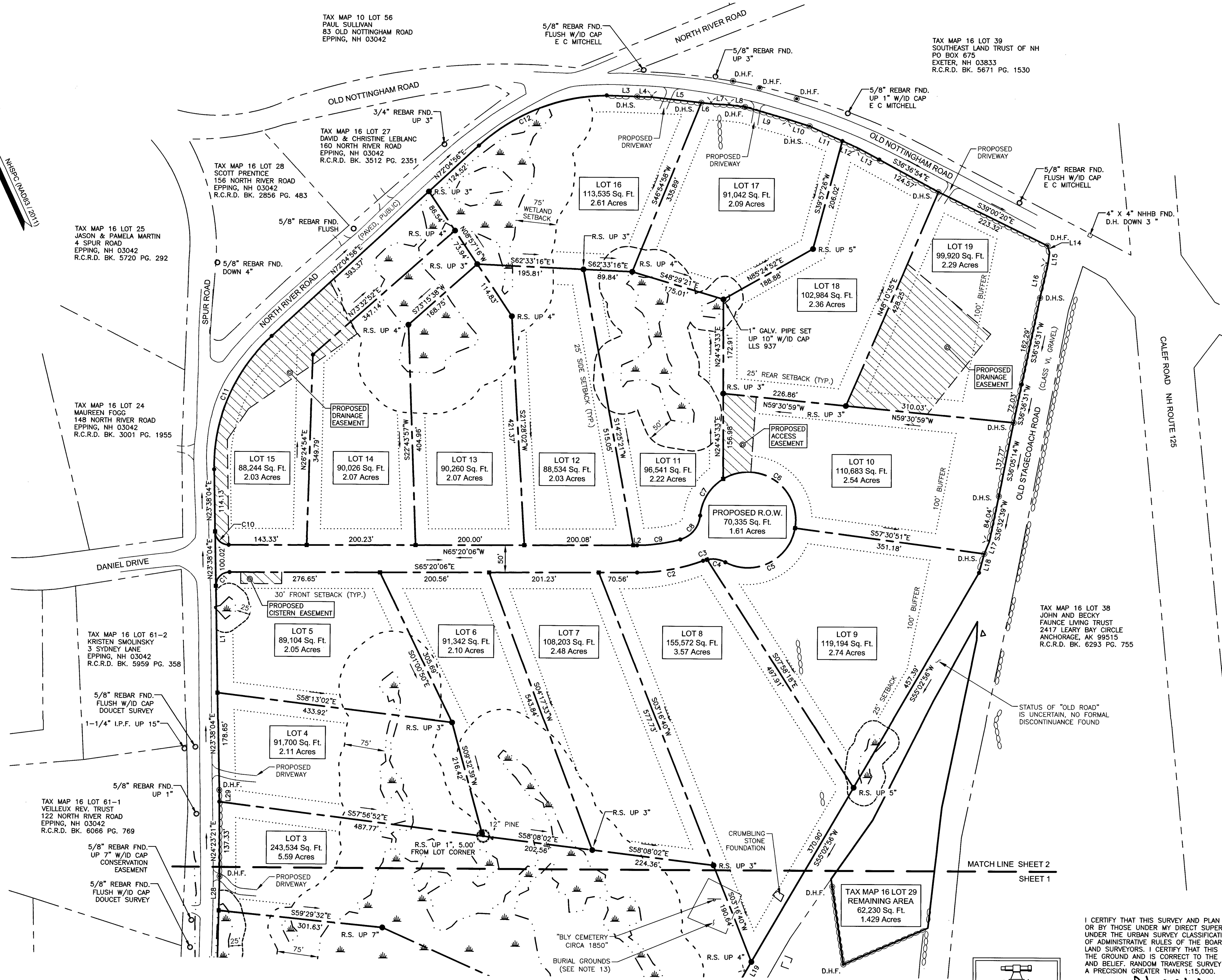
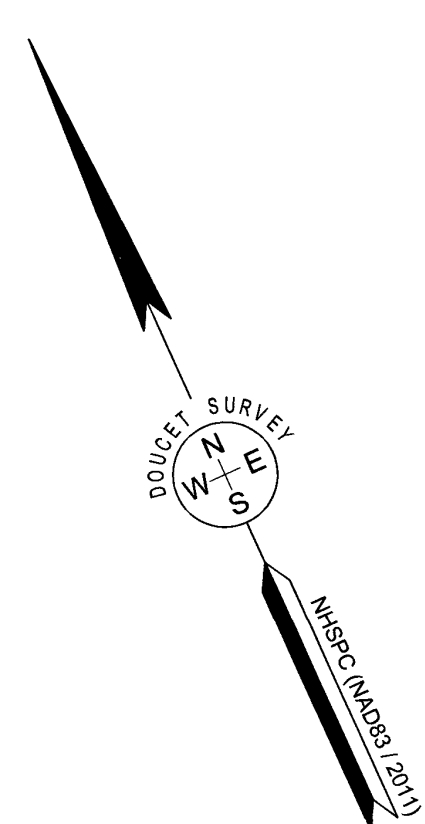
OWNER: *John & Becky Faunce* 4/6/22
 DATE

STATE OF NEW HAMPSHIRE
 JOHN F. KAISER
 LICENSED SURVEYOR
 SIGNATURE

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

John F. Kaiser L.L.S. #937
 3/15/22 DATE

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



CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	39.72'	25.00'	91°01'50"	S69°08'59"W	35.67'
C2	123.89'	350.00'	20°16'52"	S75°28'32"E	123.25'
C3	7.69'	50.00'	8°48'48"	N81°12'35"W	7.68'
C4	34.52'	50.00'	39°33'31"	N57°01'27"W	33.84'
C5	166.17'	88.00'	108°11'39"	N88°39'29"E	142.56'
C6	201.24'	88.00'	131°01'32"	N30°57'07"W	160.17'
C7	82.52'	88.00'	53°43'29"	S56°40'23"W	79.53'
C8	60.65'	50.00'	69°30'10"	N64°33'43"E	57.00'
C9	80.38'	300.00'	15°21'06"	S73°00'39"E	80.14'
C10	38.82'	25.00'	88°58'10"	S20°51'01"E	35.04'
C11	274.81'	325.00'	48°26'52"	N47°51'30"E	266.70'
C12	273.31'	350.00'	44°44'29"	S85°32'49"E	266.42'

LINE TABLE		LINE TABLE			
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N23°38'04"E	196.31'	L10	S47°35'46"E	40.71'
L2	N65°20'06"W	7.16'	L11	S41°07'41"E	66.32'
L3	S63°10'35"E	41.71'	L12	S41°07'41"E	32.02'
L4	S63°14'29"E	26.59'	L13	S36°36'54"E	44.21'
L5	S58°51'31"E	53.84'	L14	S07°46'58"W	13.01'
L6	S58°51'31"E	17.97'	L15	S32°17'49"W	20.20'
L7	S62°00'28"E	32.79'	L16	S38°07'33"W	65.14'
L8	S57°54'48"E	30.20'	L17	S46°53'17"W	25.40'
L9	S49°07'31"E	82.95'	L18	S40°16'15"W	35.89'

APPROVED BY THE EPPING PLANNING BOARD

Harold Cook / *Don* 12-9-21
 CHAIRPERSON DATE

Susan D'Amico / *Don* 12-9-21
 MEMBER DATE

Dan Keach / *Don* 12-9-21
 MEMBER DATE

Michael Vondra / *Don* 12-9-21
 MEMBER DATE

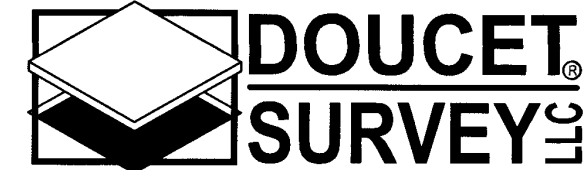
OWNER: *JAMES P. GOVE* 4/6/22
 OWNER DATE



SUBDIVISION PLAN
 FOR
 CHINBURG BUILDERS
 LAND OF
 JOHN AND BECKY FAUNCE
 LIVING TRUST
 TAX MAP 16, LOT 29
 NORTH RIVER ROAD
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1	11/23/21	REVISED LOT LAYOUT	M.T.L.

DRAWN BY: M.T.L. DATE: OCTOBER 20, 2021
 CHECKED BY: J.F.K. DRAWING NO. 7059B
 JOB NO. 7059 SHEET 2 OF 2



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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.

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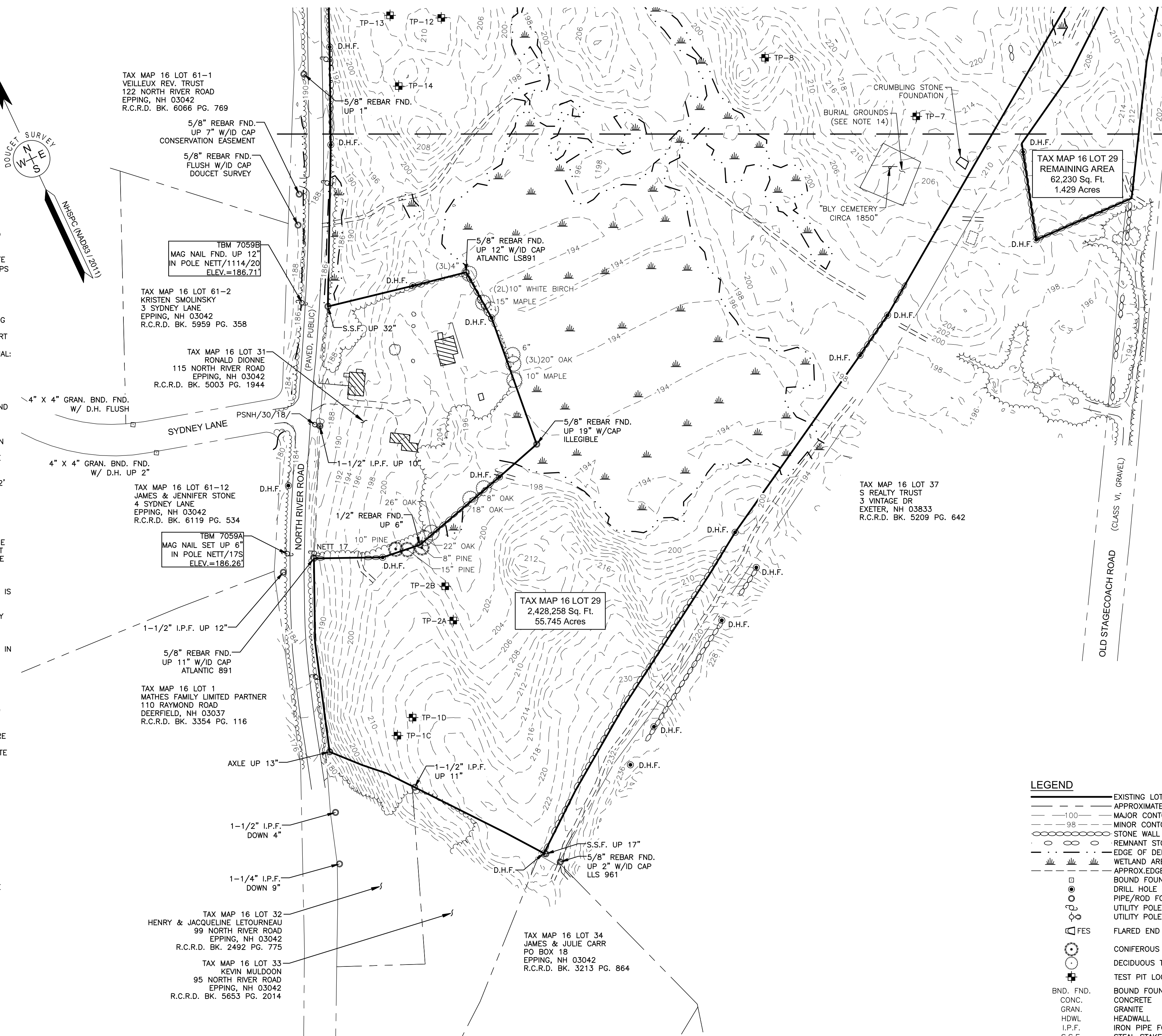
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- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- FLOOD HAZARD ZONE: "X", PER FIRM MAP 33015C0220F, DATED 1/29/21.
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- 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 ROADS AS DEPICTED HEREON ARE BASED ON RESEARCH CONDUCTED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS AND EPPING TOWN HALL.
- CEMETERY SUBJECT TO N.H.R.S.A. 289:3, III NEW CONSTRUCTION, EXCAVATION, OR BUILDING IN THE AREA OF A KNOWN BURIAL SITE SHALL COMPLY WITH LOCAL ZONING. IN ABSENCE OF SUCH REGULATIONS NO NEW CONSTRUCTION, EXCAVATION, OR BUILDING SHALL BE CONDUCTED WITHIN 25' OF THE BOUNDARY OF THE BURIAL GROUND.

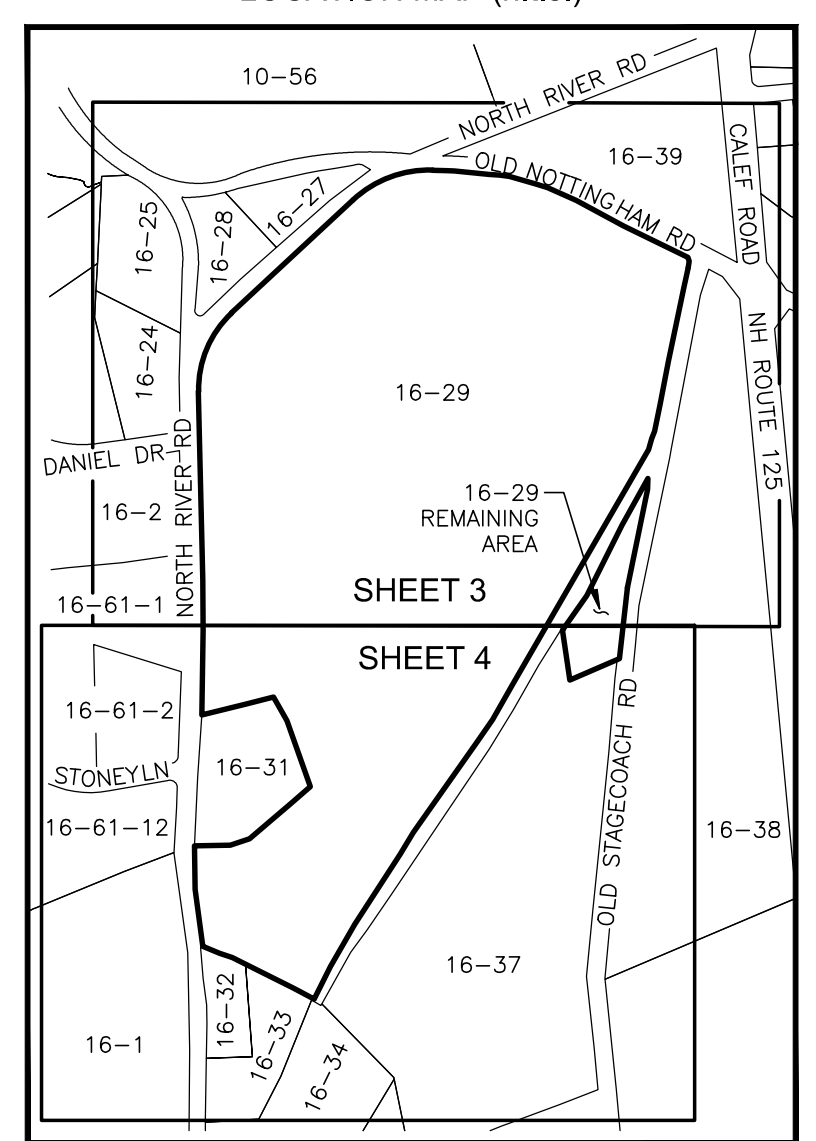
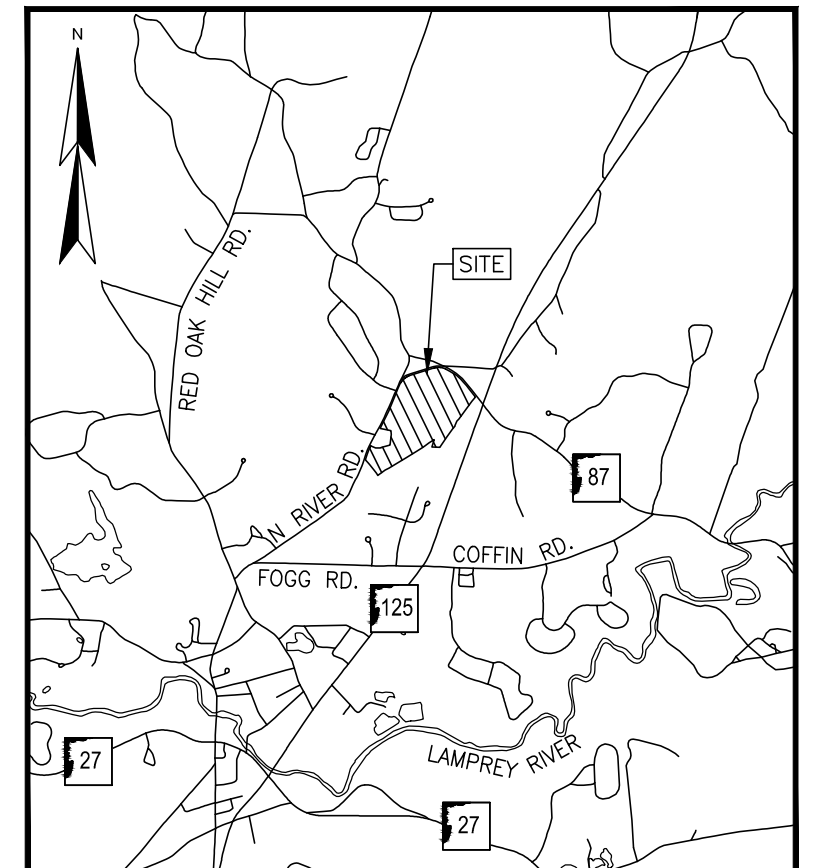
A SITE MEETING WAS HELD ON 10/12/21 WITH THE CEMETERY COMMITTEE; THE COMMITTEE POINTED OUT HEADSTONE LOCATIONS (SHOWN HEREON) AND HUNG A SIGN NEARBY READING "BLY CEMETERY CIRCA 1850". THE COMMITTEE BELIEVES THE STONE PILES IN THE AREA OF THE CEMETERY AS INDICATED ON EPPING TAX MAP 16, LOT 29 ARE NO MORE THAN STONE PILES FROM CLEARING OF FIELDS.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL. WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

REFERENCE PLANS:

- "SUBDIVISION OF LAND SITUATED IN EPPING, N.H." DATED DECEMBER 1975 BY H.A.P. ASSOCIATES R.C.R.D. PLAN D-6638.
- "SUBDIVISION OF PLAN FOR HENRY J. LETOURNEAU SR. IN EPPING, N.H." DATED SEPTEMBER 1977 BY PARKER SURVEY ASSOC., INC. R.C.R.D. PLAN D-7582.
- "A PLAT OF A SUBDIVISION OF LAND BEING TRANSFERRED FROM HENRY J. LETOURNEAU, SR. TO ROBERT B. & CLAIRE M. HICKS AND PAUL A. & KATHLEEN ROSE PRATT, SR. SITUATED IN EPPING, N.H." DATED OCTOBER 6, 1978 BY R.S.L. LAYOUT & DESIGN R.C.R.D. PLAN D-8356.
- "LOT LINE REVISION PLAN PREPARED FOR HENRY J. JR. & JACQUELINE LETOURNEAU (TAX MAP 16 LOTS 32 & 33) 95 & 99 NORTH RIVER ROAD EPPING, NH" DATED JANUARY 16, 2013 BY BOUDREAU LAND SURVEYING P.L.L.C. R.C.R.D. PLAN D-37618.
- "BOUNDARY PLAN OF THE LAND OF ROBERT G. & AMOGENE T. KIMBALL EPPING, N.H." DATED NOVEMBER 22, 1988 BY HOLDEN ENGINEERING & SURVEYING INC.
- "SUBDIVISION PLAN OF TAX MAP 2-LOT 35 IN EPPING, N.H." DATED NOVEMBER 20, 1986 BY JAMES M. LAVELLE ASSOCIATES R.C.R.D. PLAN C-15964.
- "SUBDIVISION OF LAND FOR MICHAEL ERLINDSON IN EPPING N.H." DATED APRIL 1985 BY BRUCE POHOPEK R.L.S. R.C.R.D. PLAN C-14510.
- "MAP 2 PARCEL 35 SUBDIVISION PLAN OF LAND IN EPPING, N.H. AS DRAWN FOR ROXANNE RICHARDS" DATED MAY 15, 1987 BY JAMES M. LAVELLE ASSOCIATES R.C.R.D. PLAN D-18948.
- "BOUNDARY SURVEY OF THE LAND OF ROBERT G. & AMOGENE T. KIMBALL EPPING, N.H." DATED OCTOBER 13, 1988 BY HOLDEN ENGINEERING & SURVEYING INC. R.C.R.D. PLAN D-20242.
- "SUBDIVISION PLAN FOR LAKE REALTY TRUST JOHN D. & EMILY JALBERT TRUSTEES (TAX MAP 16, LOT 61) NORTH RIVER ROAD EPPING, NEW HAMPSHIRE" DATED OCTOBER 6, 2004 BY DOUCET SURVEY INC R.C.R.D. PLAN D-32717.
- "BOUNDARY PLAN OF LAND TAX MAP 16 LOT 39 NH ROUTE 125 (CALEF HIGHWAY), NORTH RIVER & OLD NOTTINGHAM ROADS EPPING, NH" DATED NOVEMBER 5, 2015 BY ERIC C. MITCHELL & ASSOC. INC. R.C.R.D. PLAN D-39171.



MATCH LINE SHEET 4
SHEET 3



SCALE: 1 INCH = 100 FT.

EXISTING CONDITIONS PLAN
FOR
CHINBURG BUILDERS
LAND OF
JOHN AND BECKY FAUNCE
LIVING TRUST
TAX MAP 16, LOT 29
NORTH RIVER ROAD
EPPING, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY: W.D.C. / M.T.L.	DATE: OCTOBER 19, 2021
CHECKED BY: J.F.K.	DRAWING NO. 7059A
JOB NO. 7059	SHEET 3

DOUCET SURVEY
Serving Your Professional Surveying & Mapping Needs
102 Kent Place, Newmarket, NH 03857 (803) 659-6560
Offices in Bedford & Keene, NH and Kennebunk, ME
http://www.doucetsurvey.com

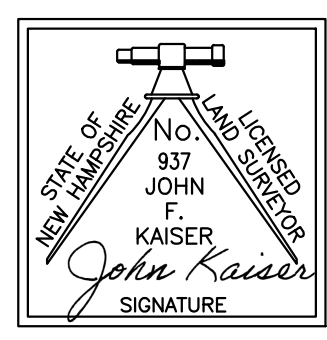
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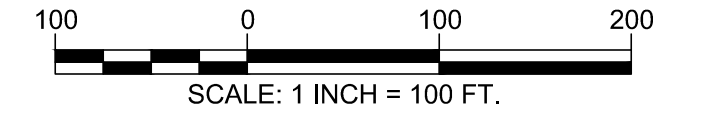
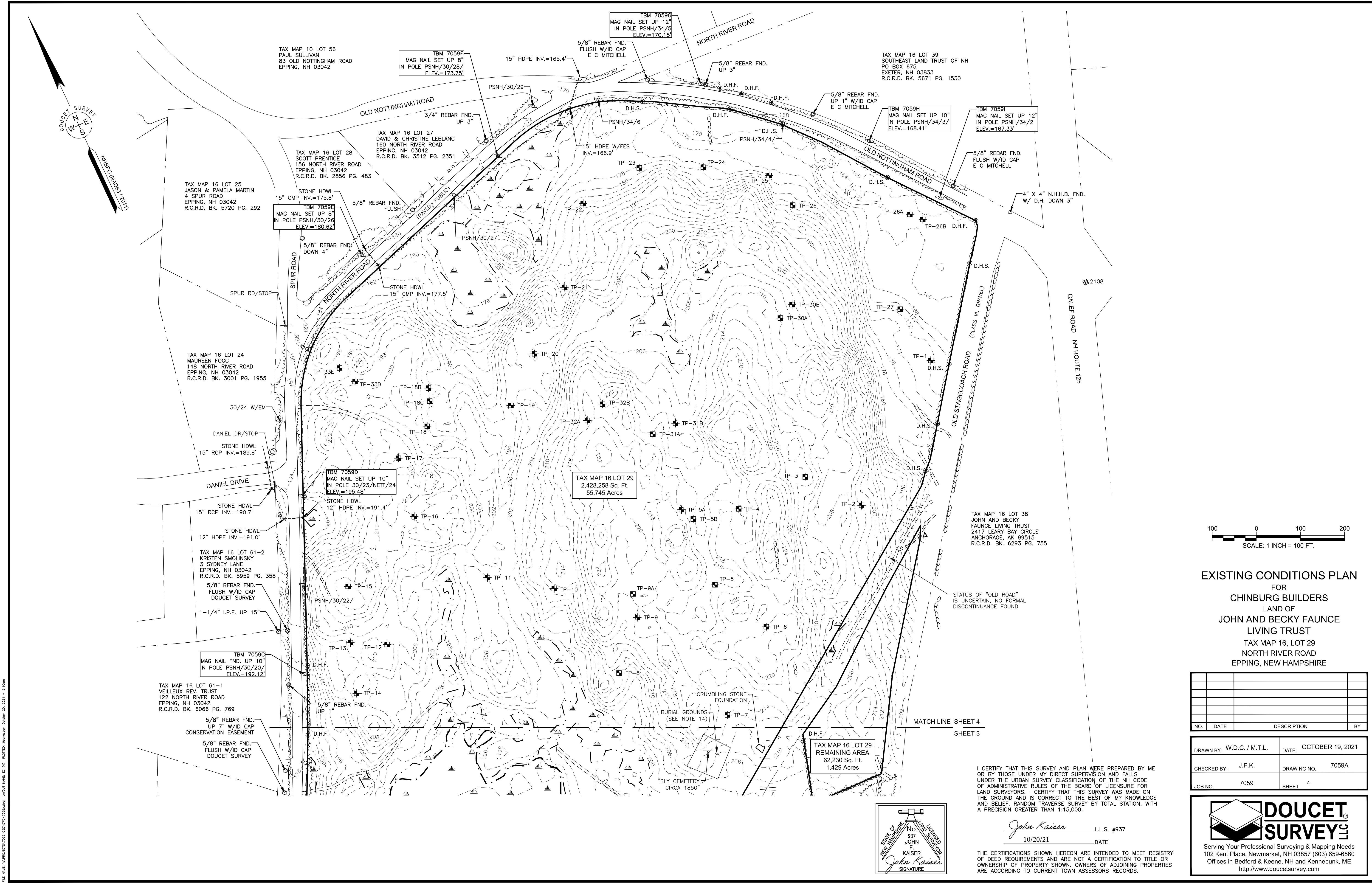
- EXISTING LOT LINE
- APPROXIMATE ABUTTERS LOT LINE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- STONE WALL
- REMNANT STONE WALL
- EDGE OF DELINEATED WETLAND
- WETLAND AREA
- APPROX. EDGE OF TRAIL PER AERIAL BOUND FOUND (BND. FND.)
- DRILL HOLE FOUND (D.H.F.)
- PIPE/ROD FOUND
- UTILITY POLE
- UTILITY POLE W/LIGHT
- FLARED END SECTION
- FES
- CONIFEROUS TREE W/BARBED WIRE
- DECIDUOUS TREE W/BARBED WIRE
- TEST PIT LOCATION
- BND. FND.
- CONC.
- GRAN.
- HDWL
- I.P.F.
- S.S.F.
- D.H.
- NHHD
- CMP
- HDPE
- BOUND FOUND
- CONCRETE
- GRANITE
- HEADWALL
- IRON PIPE FOUND
- STEEL STAKE FOUND
- DRILL HOLE
- NEW HAMPSHIRE HIGHWAY BOUND
- CORRUGATED METAL PIPE
- HIGH DENSITY POLYETHYLENE PIPE
- BROOK/STREAM
- SWAMP LIMIT
- CULVERT
- DITCH
- TREE LINE
- SHRUB LINE
- DRIVEWAY UNPAVED
- RETAINING WALL
- BUILDING
- ROCK

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.

John Kaiser L.L.S. #937
10/20/21 DATE

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





EXISTING CONDITIONS PLAN
 FOR
CHINBURG BUILDERS
 LAND OF
JOHN AND BECKY FAUCE
 LIVING TRUST
 TAX MAP 16, LOT 29
 NORTH RIVER ROAD
 EPPING, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY: W.D.C. / M.T.L.	DATE: OCTOBER 19, 2021
CHECKED BY: J.F.K.	DRAWING NO. 7059A
JOB NO. 7059	SHEET 4

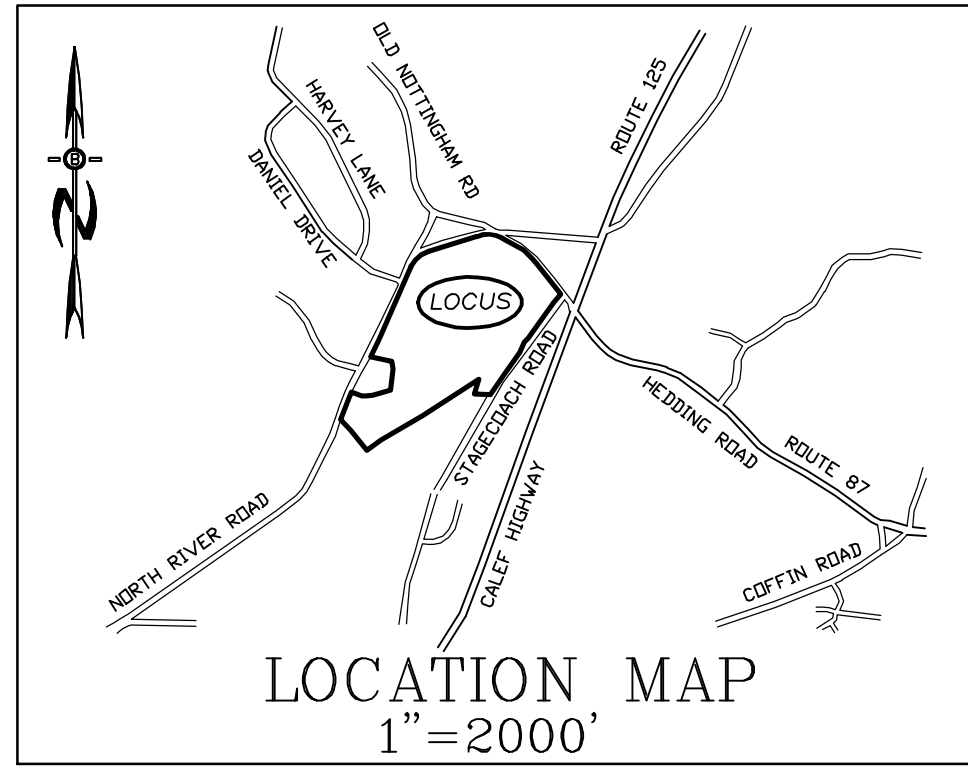
I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE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

STATE OF NEW HAMPSHIRE
 LAND SURVEYOR
 No. 837
 JOHN F. KAISER
 KAISER
 John Kaiser
 SIGNATURE

John Kaiser L.L.S. #937
 10/20/21 DATE

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

FILE NAME: N:\PROJECTS\7059A_CAD\DWG\7059A.dwg PLOT DATE: 10/19/2021 10:58:58 AM PLOT BY: JFKA



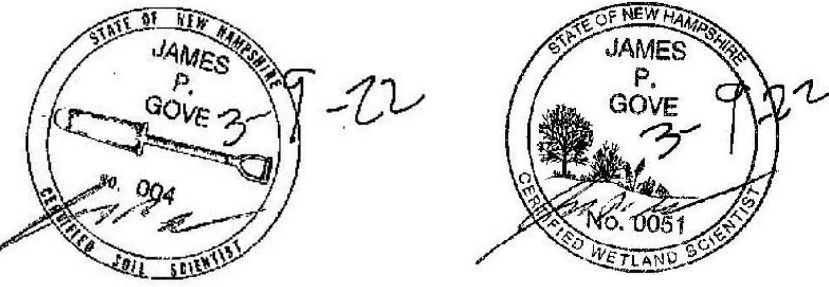
This map product is within the technical standards of the National Cooperative Soil Survey. It is a special purpose product, intended for infiltration requirements by the NH DES Alteration of Terrain Bureau. It was produced by a professional soil scientist, and is not a product of the USDA Natural Resources Conservation Service. There is a report that accompanies this map.

The site specific soil survey (SSSS) was produced October 15, 2021, and was prepared by James P. Gove, CSS # 004, Gove Environmental Services, Inc. The survey area is located along North River Road and Old Nottingham Road in Epping, NH. Soils were identified with the New Hampshire State-wide Numerical Soils Legend, USDA NRCS, Durham, NH, Issue # 10, January 2011. The numeric legend was amended to identify the correct soil components of the complex.

Hydrologic Soil Group from Ksat Values for New Hampshire Soils, Society of Soil Scientists of New England, Special Publication No. 5, September, 2009.

SSSS	SSSS MAP NAME	HISS SYM.	SOIL GRP.
85	Hollis, very stony	224	D
87	Chatfield, very stony	227	B
125	Scarboro, very stony	621	D
189	Chatfield variant (MWD)	327	B
313	Deerfield loamy sand	311	B
445	Newfields, very stony	321	B
449	Scituate, very stony	323	C
547	Wolpole, very stony	547	C

SLOPE PHASE:
 0-8%=B, 8-15%=C, 15-25%=D, 25%+=E



ZONING REQUIREMENTS

ZONE	RUR. (RES.)
LOT AREA MIN.	88,000 SF
LOT FRONTAGE	200 FT.
FRONT YARD	30 FT.
SIDE	25 FT.
REAR YARD	25 FT.
WETLAND SETBACK	PER SIZE
BUILDING HEIGHT	35 FT.
COVERAGE (FOOTPRINT)	30% MAX.

PREPARED FOR:
CHINBURG PROPERTIES INC
 3 PENSTOCK WAY
 NEWMARKET, NH 03857

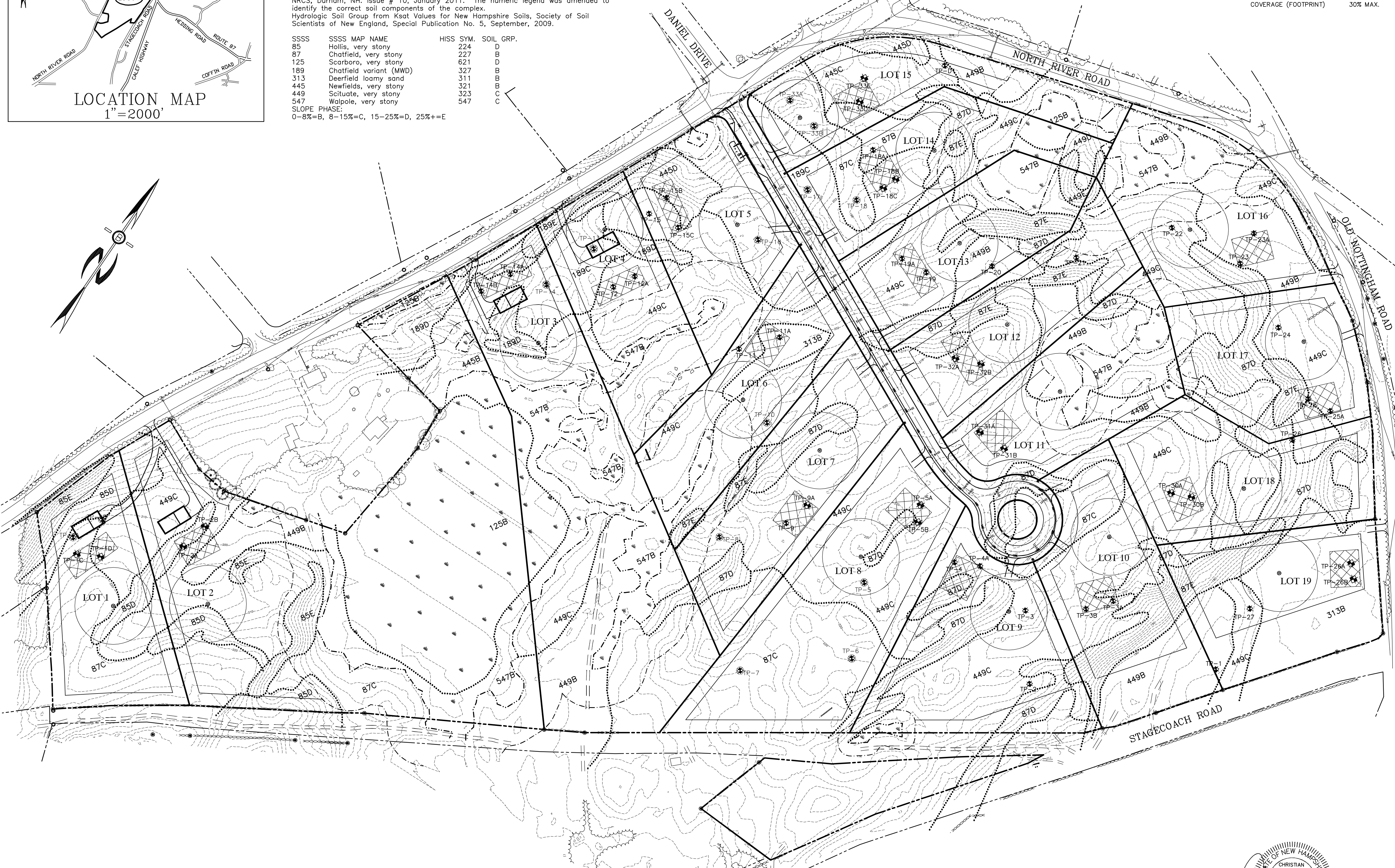


70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863

- NOTES**
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM FIELD OBSERVATIONS AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. BEALS ASSOCIATES OR ANY OF THEIR EMPLOYEES TAKE NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN, THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES OR STRUCTURES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE.
 - THIS PLAN HAS BEEN PREPARED FOR MUNICIPAL AND STATE APPROVALS, AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
 - ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 - ALL ROAD AND DRAINAGE WORK TO CONFORM TO TOWN STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - ALL PROPOSED SIGNS SHALL CONFORM TO THE TOWN ZONING REGULATIONS.
 - THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
 - SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.

LEGEND

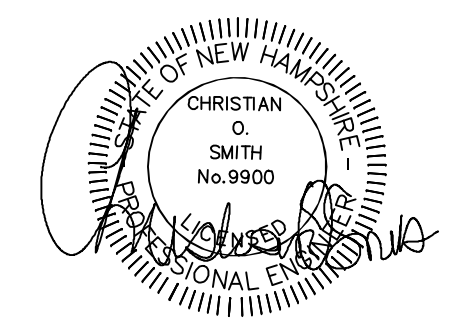
	UTILITY POLE
	TEST PIT W/ NO.
	STONE WALL
	TREE LINE
	EXISTING CONTOUR - 10'
	EXISTING CONTOUR - 2'
	WETLAND BOUNDARY
	SOILS BOUNDARY LINE
	BUILDING SETBACK LINE
	SEPTIC SETBACK LINE
	ABUTTING PROPERTY LINE
	EXISTING PROPERTY LINE
	PROPOSED PROPERTY LINE
	4000 SF SEPTIC RESERVE AREA
	PROP. WELL W/ 75' PROTECTIVE RAD.



APPROVAL BLOCK

APPROVED TOWN OF EPPING PLANNING BOARD

CHAIRPERSON _____ DATE _____



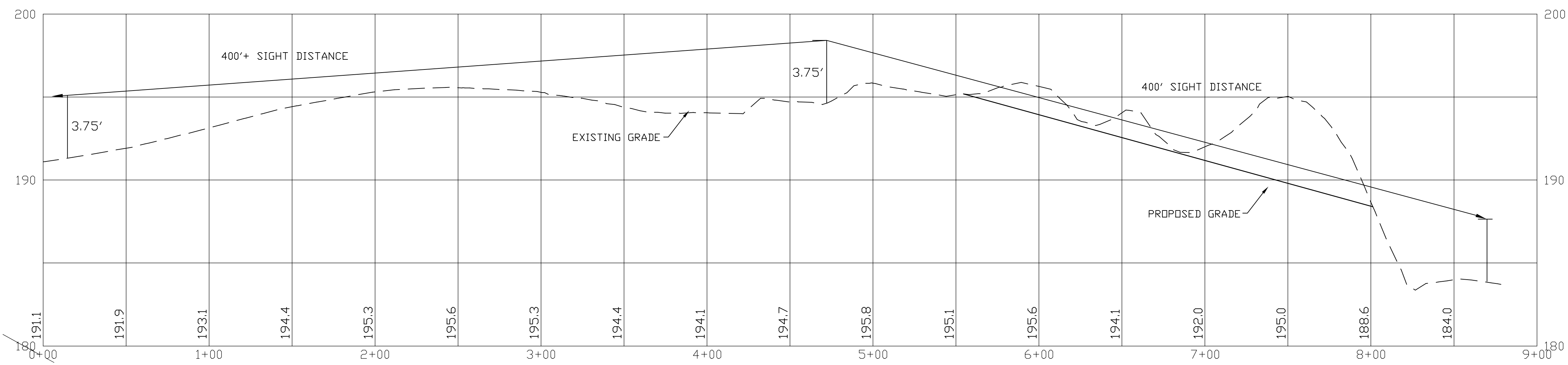
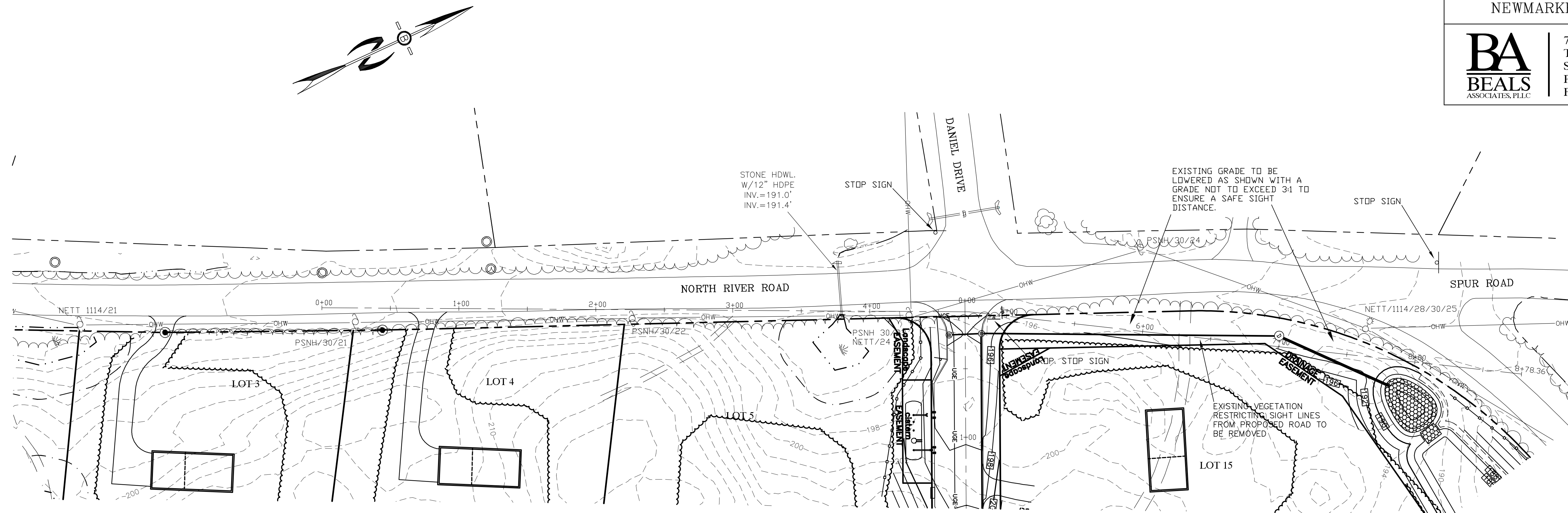
REVISED PER ENG. REVIEW	11-22-21
REVISIONS:	DATE:
SUBDIVISION SITE PLAN	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: OCT. 2021	SCALE: 1"=100'
PROJ. NO: NH-1374	SHT. NO. 5 OF 13

PREPARED FOR:

CHINBURG PROPERTIES INC
3 PENSTOCK WAY
NEWMARKET, NH 03857



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



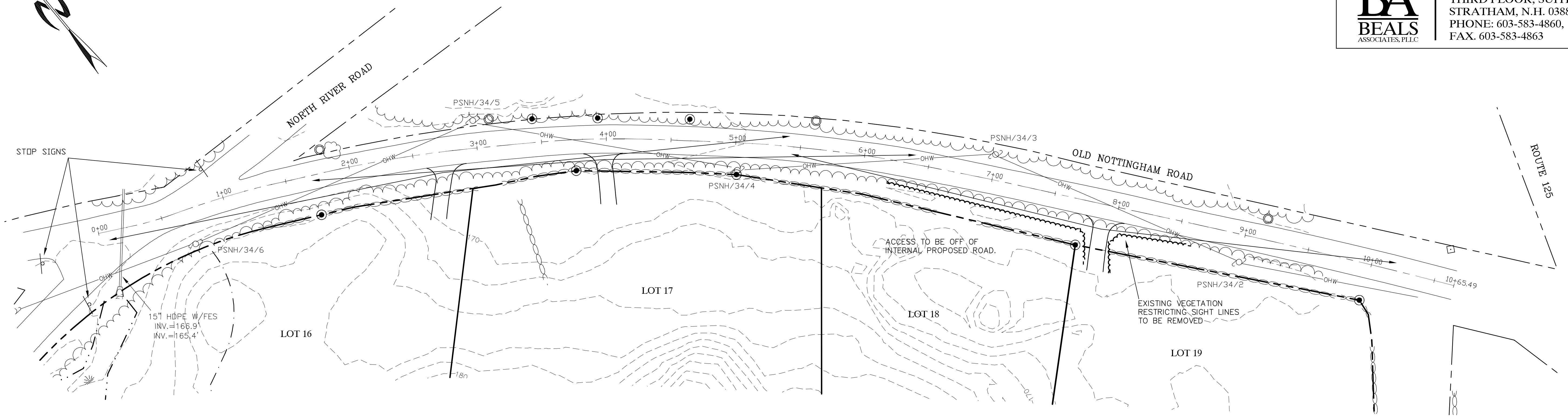
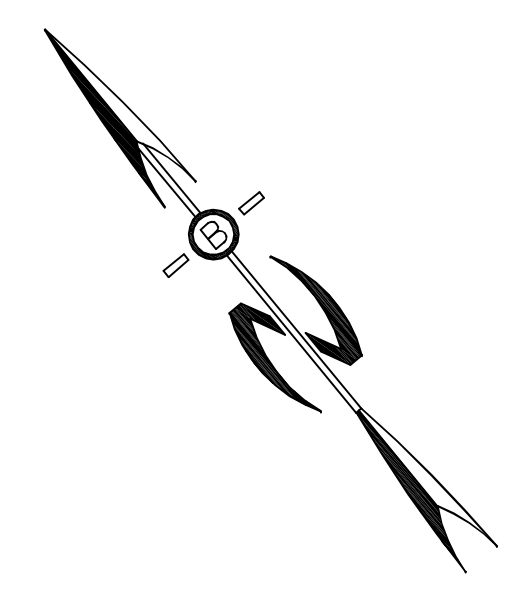
PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

REVISED PER ENG. REVIEW	11-22-21
REVISIONS:	DATE:
HIGHWAY ACCESS PLAN-H1	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: OCT. 2021	SCALE: 1"=40'
PROJ. NO: NH-1374	SHT NO. 6 OF 13

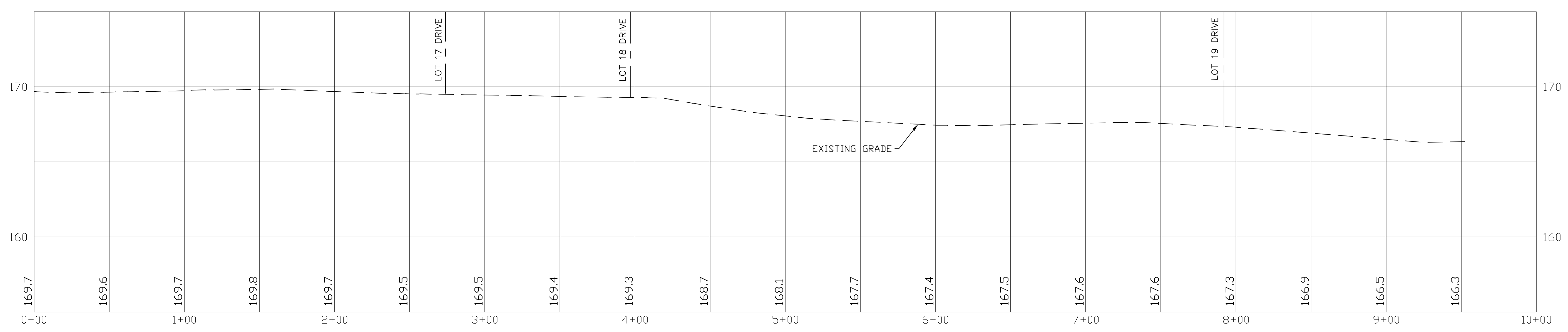
PREPARED FOR:
CHINBURG PROPERTIES INC
 3 PENSTOCK WAY
 NEWMARKET, NH 03857

BA
BEALS
 ASSOCIATES, PLLC

70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863



PLAN SCALE 1"=40'



PROFILE SCALES:
 HORIZONTAL: 1"=40' VERTICAL: 1"=4'

REVISIONS:	DATE:

HIGHWAY ACCESS PLAN-H2

PLAN FOR:
 RESIDENTIAL DEVELOPMENT
 N. RIVER ROAD
 EPPING, NH

DATE:	OCT. 2021	SCALE:	1"=40'
PROJ. NO.:	NH-1374	SHT NO.:	7 OF 13

PREPARED FOR:

CHINBURG PROPERTIES INC
3 PENSTOCK WAY
NEWMARKET, NH 03857



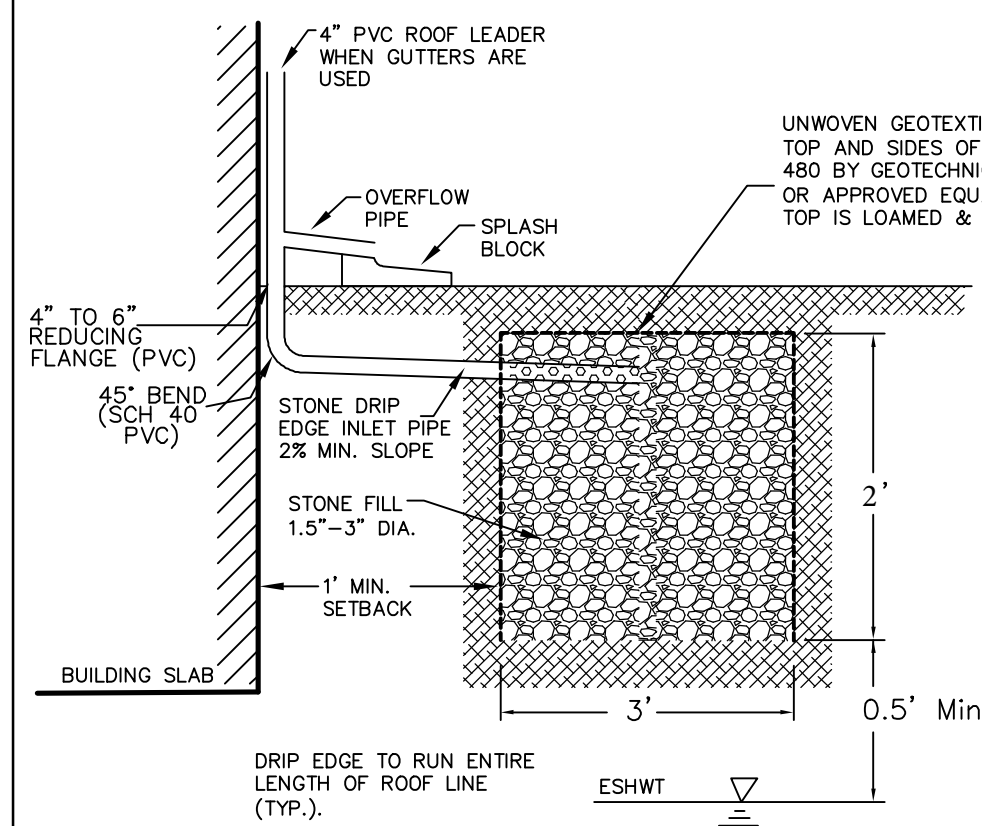
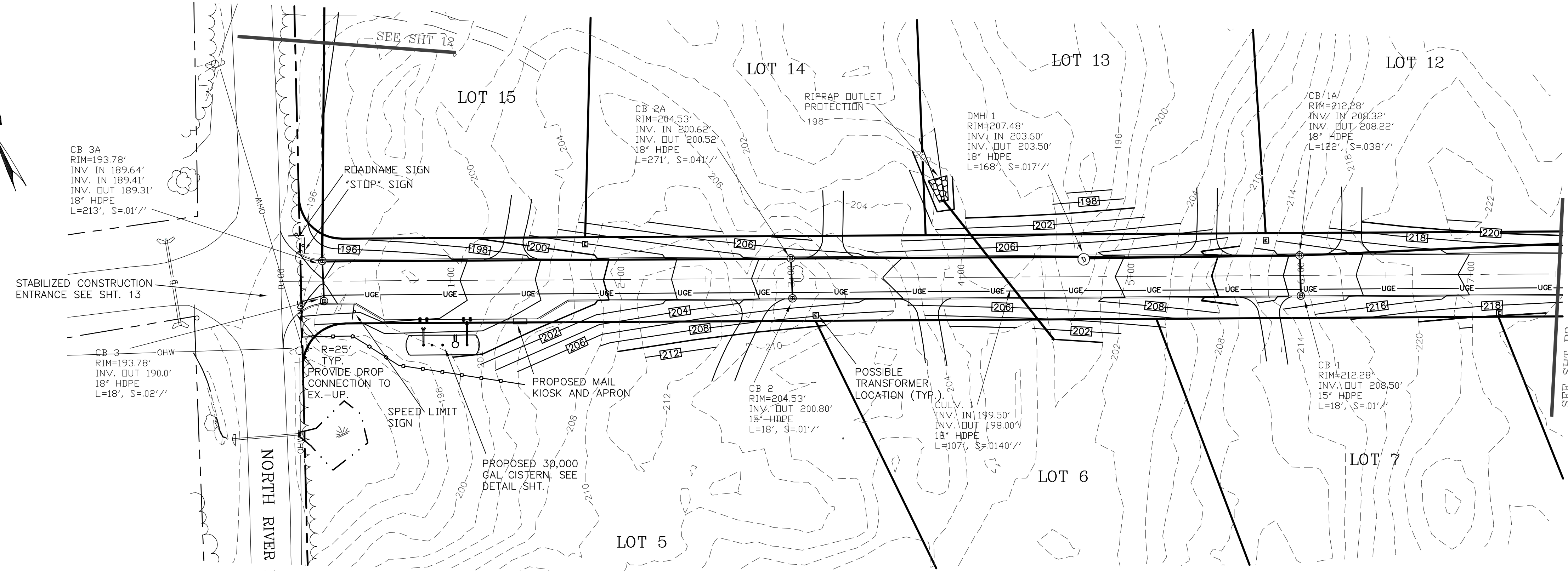
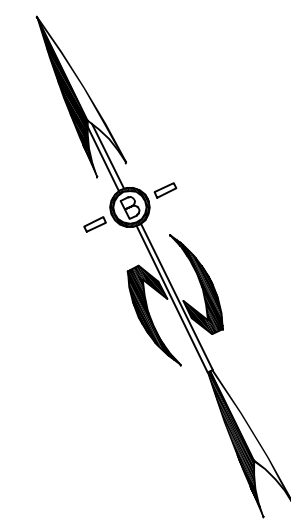
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=45'

NOTES

- ALL ELECTRICAL, TELEPHONE, CABLE TELEVISION AND ALARM LINES TO BE UNDERGROUND. THE SIZE AND LOCATION IS TO BE DETERMINED BY APPROPRIATE UTILITY COMPANY.
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR, ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY.
- ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN STANDARD SPECIFICATIONS AND TO N.H.D.O.T. STANDARDS AND REGULATIONS.
- ALL DRAINAGE STRUCTURE AND SWALES WILL BE BUILT AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- SEE DETAIL SHEETS FOR STANDARD CONSTRUCTION NOTES AND DETAILS.
- ALL FRONTAGE LOT DRIVEWAY CULVERTS TO BE MIN. 12" ADS N-12 WITH MIN. 1' OF COVER.
- NATURAL DEVELOPED AREA BUFFERS ARE TO REMAIN WOODED.
- ALL SWALE MATTING WILL EXTEND TO THE LIP OF THE LEVEL SPREADER AT THE END OF EACH SWALE.
- ALL PERMANENT EROSION CONTROL SWALE LINING MATERIAL SHALL BE NAG C350 OR EQUIVALENT. ALL OTHER SWALES WILL BE PROTECTED WITH TEMPORARY STONE CHECK DAMS (S.C.D.) UNTIL THE VEGETATION HAS FULLY STABILIZED. AT THIS TIME THE S.C.D.'S WILL BE REMOVED.
- SEE ADDITIONAL NOTES ON DETAIL SHEET.

NOTE: LOTS 1 THROUGH 7 SHALL HAVE 3' WIDE BY 2' DEEP STONE DRIP EDGES FOR ROOF INFILTRATION.



STONE DRIP EDGE SECTION NOT TO SCALE

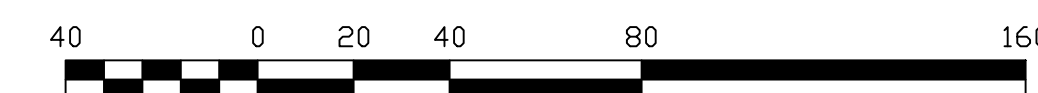
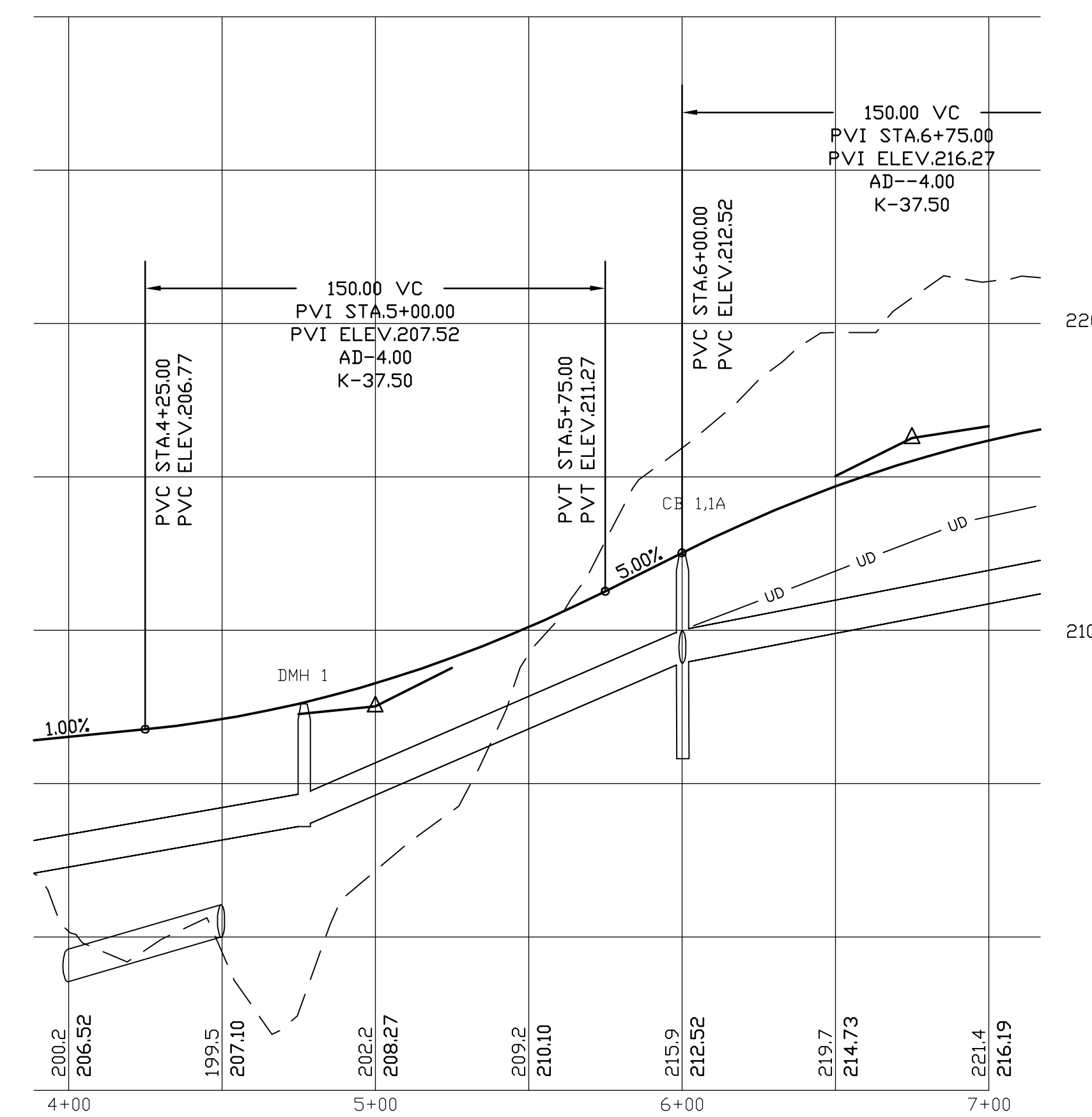
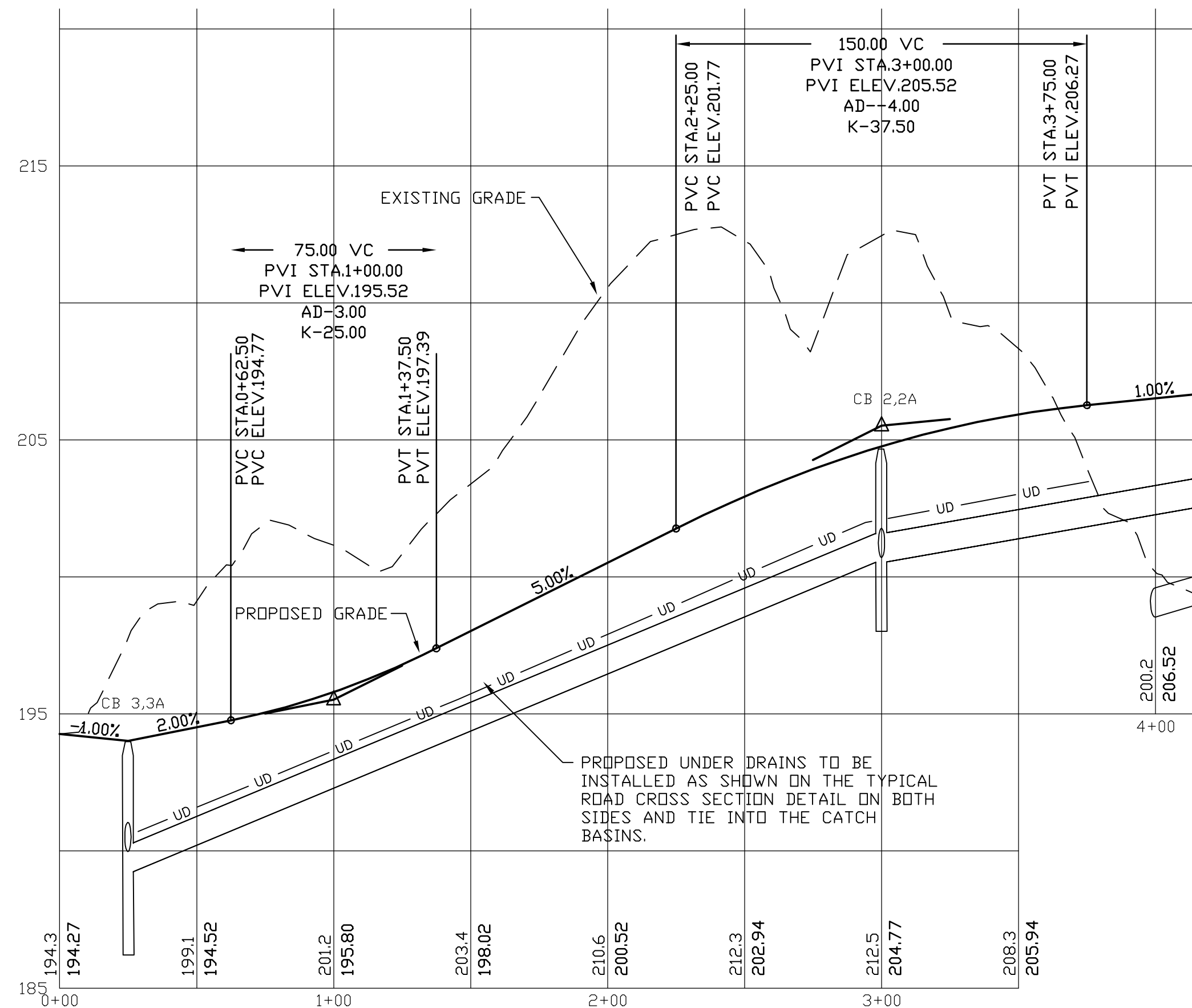
NOTES
ALL NEW RESIDENTIAL BUILDINGS SHALL HAVE STONE TRENCHES FOR ROOF RUNOFF MITIGATION (SEE DETAIL THIS SHEET). TRENCHES SHALL BE 3' IN WIDTH AND EXTEND THE ENTIRE LENGTH OF THE ROOF EAVES (BOTH SIDES OF HOUSE) AS REQUIRED PER THE EPPING PLANNING BOARD NOTICE OF DECISION.

STONE DRIP EDGE MAINTENANCE:

THE DRIP EDGES WILL BE INSPECTED WITHIN THE FIRST THREE MONTHS AFTER CONSTRUCTION; THEREAFTER THE DRIP EDGES WILL BE INSPECTED 2 TIMES PER YEAR TO ENSURE THAT THEY ARE DRAINING WITHIN 72 HOURS OF A RAIN EVENT EQUIVALENT TO 2.5" OR MORE.

REMOVE AND DISPOSE OF SEDIMENTS OR DEBRIS AS NEEDED

TOTAL REHABILITATION OF A DRIP EDGE SHOULD BE CONDUCTED TO MAINTAIN STORAGE CAPACITY WITHIN 2/3 OF THE DESIGN VOLUME AND 72-HOUR INFILTRATION RATE LIMIT. TRENCH WALLS SHOULD BE EXCAVATED TO EXPOSE CLEAN SOIL UPON FAILURE, AND THE SOIL SCARPED PRIOR TO REPLACEMENT OF CLEAN STONE.

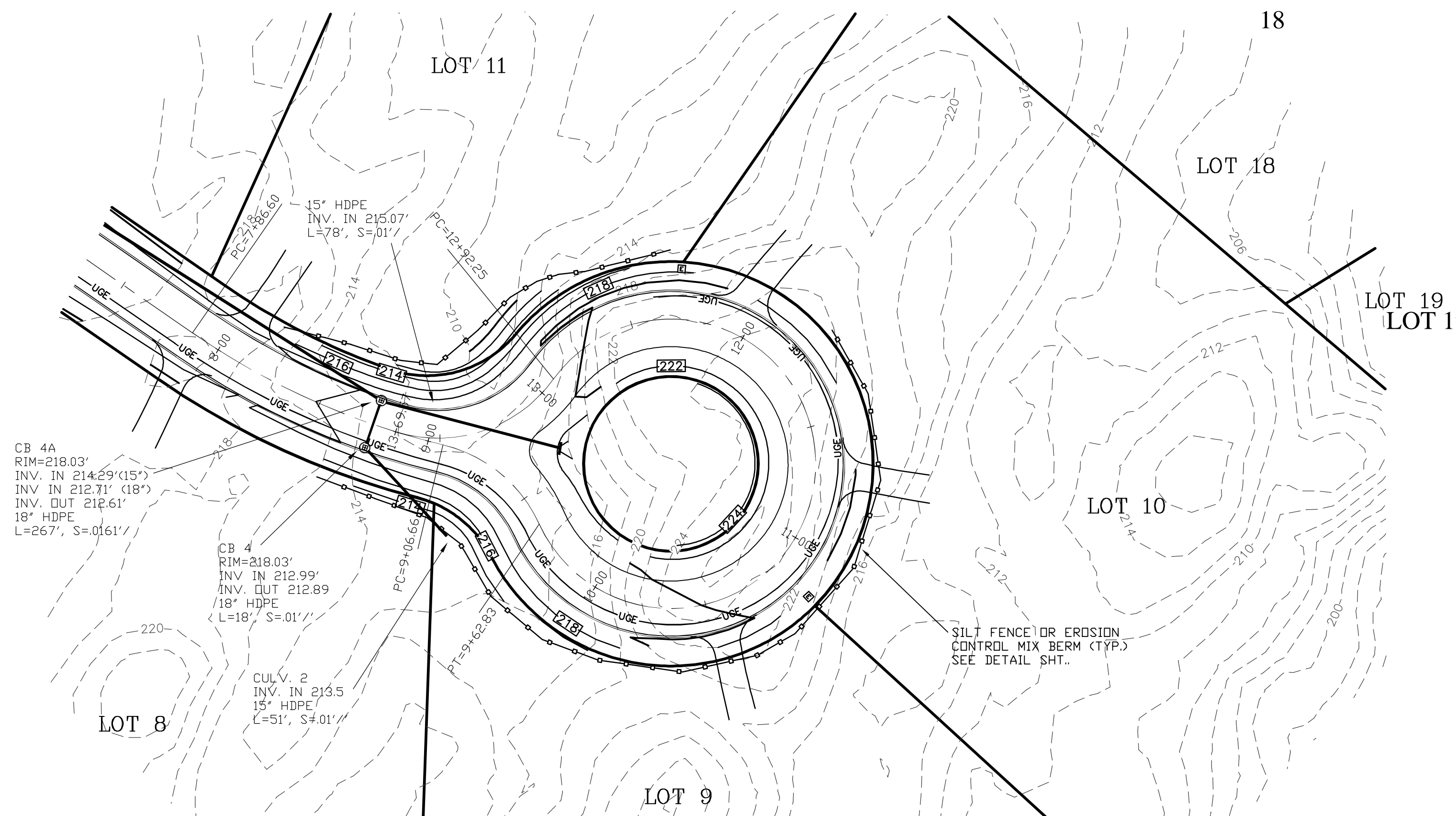
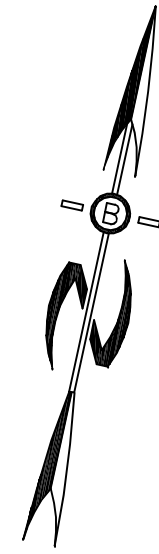


REVISED PER NOD	2-22-22
REVISED PER ENG. REVIEW	11-22-21
REVISIONS:	DATE:

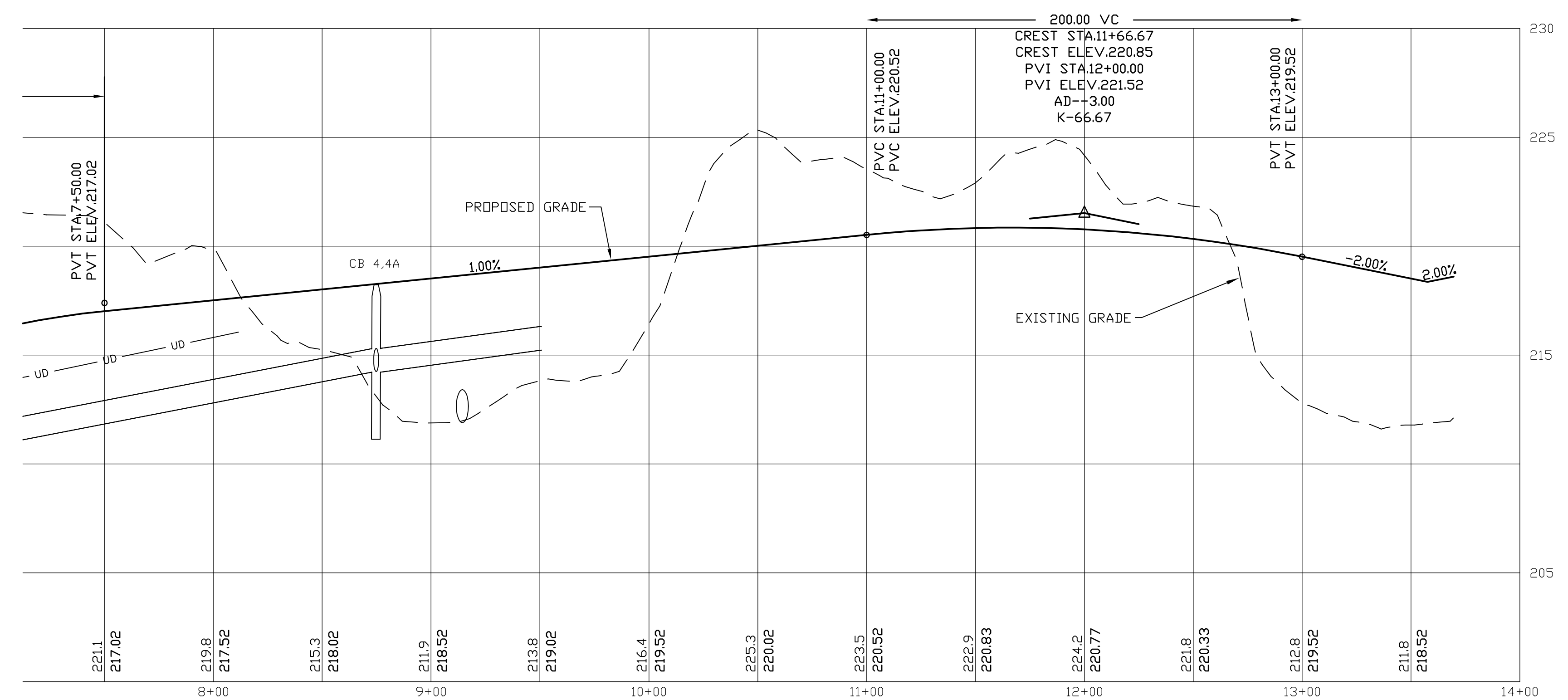
PLAN AND PROFILE-P1

PLAN FOR:
RESIDENTIAL DEVELOPMENT
N. RIVER ROAD
EPPING, NH

DATE:	OCT. 2021	SCALE:	1" = 40'
PROJ. NO:	NH-1374	SHT. NO.	8 OF 13



PROFILE SCALES:
 HORIZONTAL: 1"=40' VERTICAL: 1"=45'



PREPARED FOR:
CHINBURG PROPERTIES INC
 3 PENSTOCK WAY
 NEWMARKET, NH 03857



70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863

BLASTING NOTES

- A. Best Management Practices for Blasting. All activities related to blasting shall follow Best Management Practices (BMPs) to prevent contamination of groundwater including preparing, reviewing and following an approved blasting plan; proper drilling, explosive handling and loading procedures; observing the entire blasting procedure; evaluating blasting performance; and handling and storage of blasted rock.
- (1) Loading practices. The following blasthole loading practices to minimize environmental effects shall be followed:
 (a) 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.
 (b) 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.
 (c) 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.
 (d) 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.
 (e) 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.
 (f) Explosives shall be loaded to maintain good continuity in the column lead to prevent complete detonation. Industry accepted practices for priming, stemming, decking and column rise need to be attended to.
- (2) Explosive Selection. The following BMPs shall be followed to reduce the potential for groundwater contamination when explosives are used:
 (a) Explosive products shall be selected that are appropriate for site conditions and safe blast execution.
 (b) 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.
- (3) Prevention of Misfires. Appropriate practices shall be developed and implemented to prevent misfires.
- (4) Muck Pile Management. Muck piles (the blasted pieces of rock) and rock piles shall be managed in a manner to reduce the potential for contamination by implementing the following measures:
 (a) Remove the muck pile from the blast area as soon as reasonably possible.
 (b) Manage the interaction of blasted rock piles and stormwater to prevent contamination of water supply wells or surface water.
- (5) Spill Prevention Measures and Spill Mitigation. Spill prevention and spill mitigation measures shall be implemented to prevent the release of fuel and other related substances to the environment. The measures shall include at a minimum:
 (a) The fuel storage requirements shall include:
 1. Storage of regulated substances on an impervious surface.
 2. Secure storage areas against unauthorized entry.
 3. Label regulated containers clearly and visibly.
 4. Inspect storage areas weekly.
 5. Cover regulated containers in outside storage areas.
 6. Wherever possible, keep regulated containers that are stored outside more than 50 feet from surface water and storm drains, 75 feet from private wells, and 400 feet from public wells.
 7. Secondary containment is required for containers containing regulated substances stored outside, except for on premise use heating fuel tanks, or aboveground or underground storage tanks otherwise regulated.
 (b) The fuel handling requirements shall include:
 1. Except when in use, keep containers containing regulated substances closed and sealed.
 2. Place drip pans under spigots, valves, and pumps.
 3. Have spill control and containment equipment readily available in all work areas.
 4. Use funnels and drip pans when transferring regulated substances.
 5. Perform transfers of regulated substances over an impervious surface.
 (c) The training of on-site employees and the on-site posting of release response information describing what to do in the event of a spill of regulated substances.
 (d) Fueling and maintenance of excavation, earthmoving and other construction related equipment will comply with the regulations of the New Hampshire Department of Environmental Services (note these requirements are summarized in WD70WGB12216 Best Management Practices for Fueling and Maintenance of Excavation and Earthmoving Equipment' or its successor document.

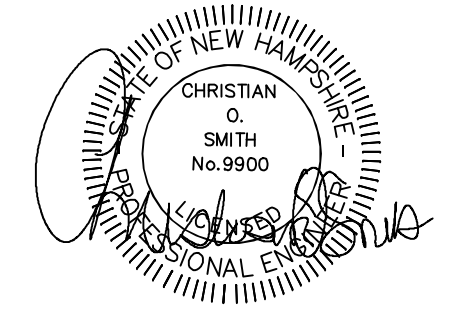


REVISED PER ENG. REVIEW	12-20-21
REVISED PER ENG. REVIEW	11-22-21
REVISIONS:	DATE:

PLAN AND PROFILE-P2

PLAN FOR:
RESIDENTIAL DEVELOPMENT
 N. RIVER ROAD
 EPPING, NH

DATE:	OCT. 2021	SCALE:	1" = 40'
PROJ. NO.:	NH-1374	SHT. NO.:	9 OF 13



PREPARED FOR:

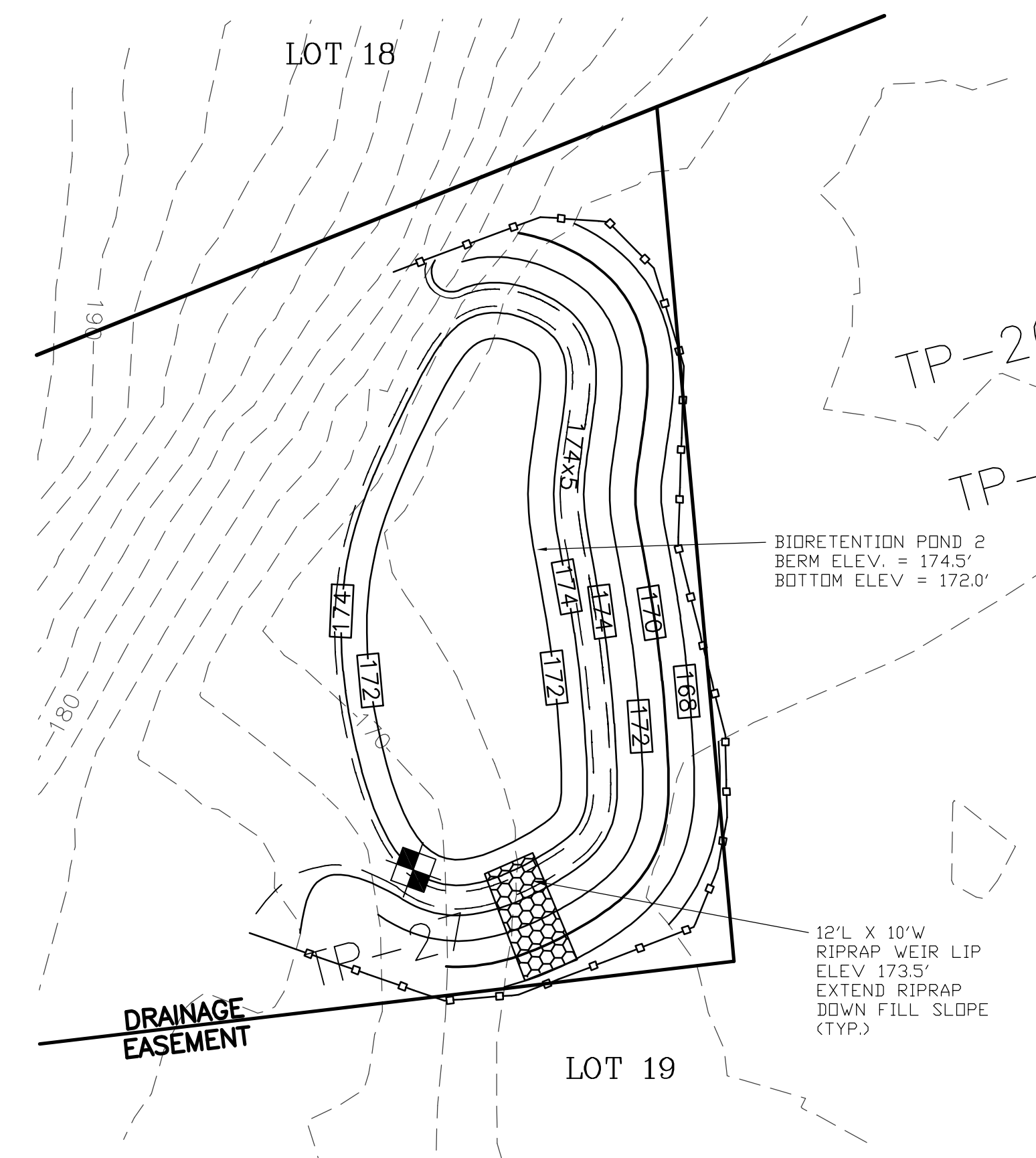
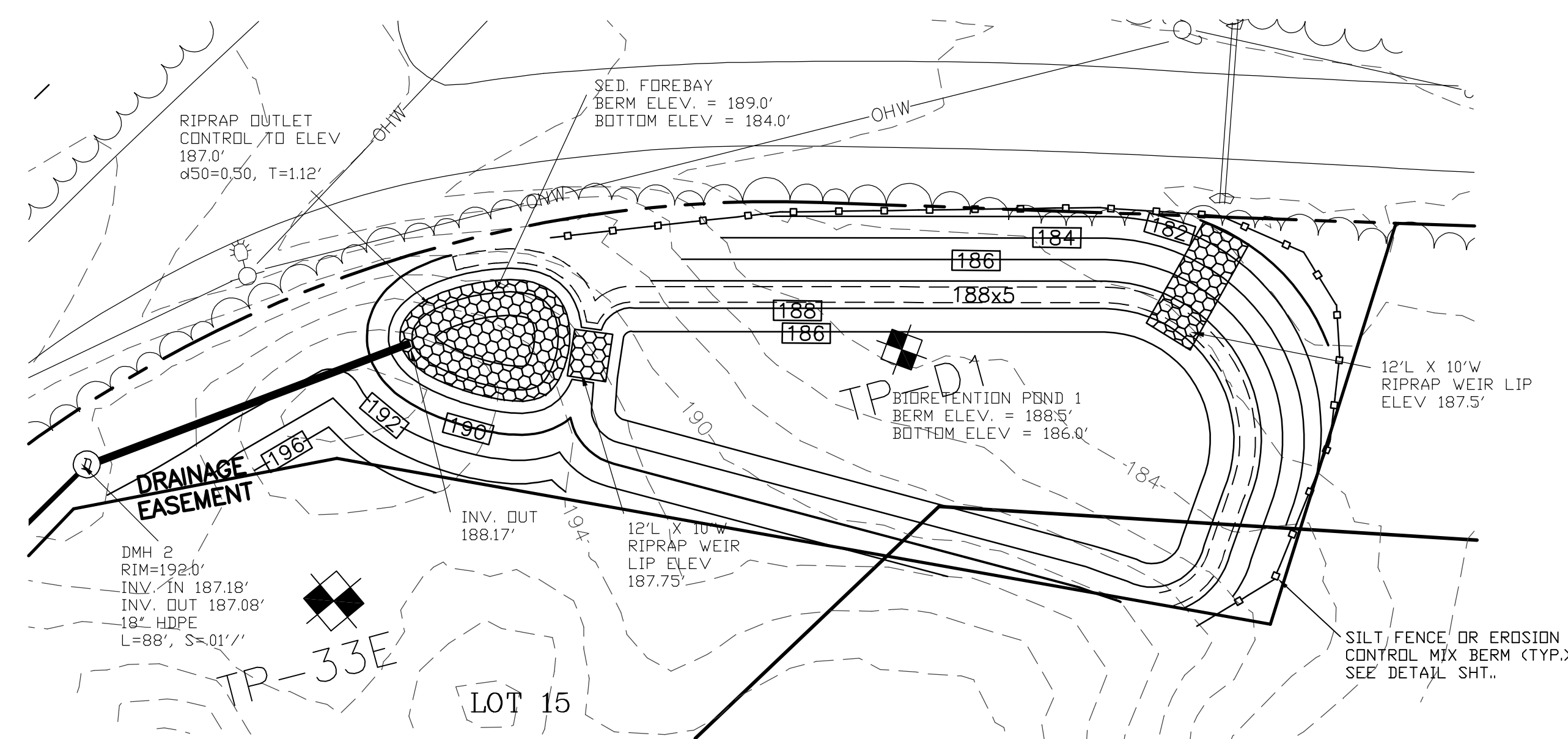
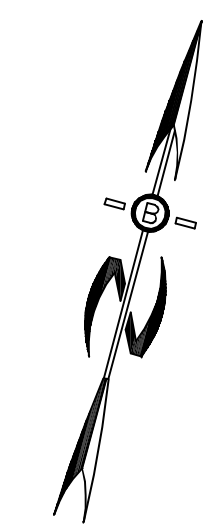
CHINBURG PROPERTIES INC
3 PENSTOCK WAY
NEWMARKET, NH 03857



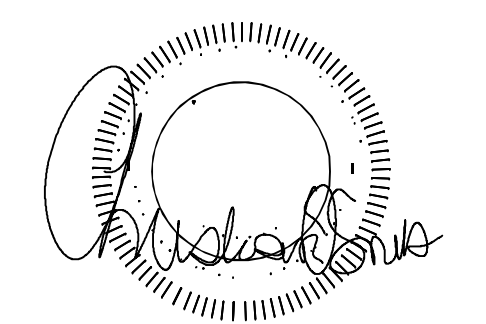
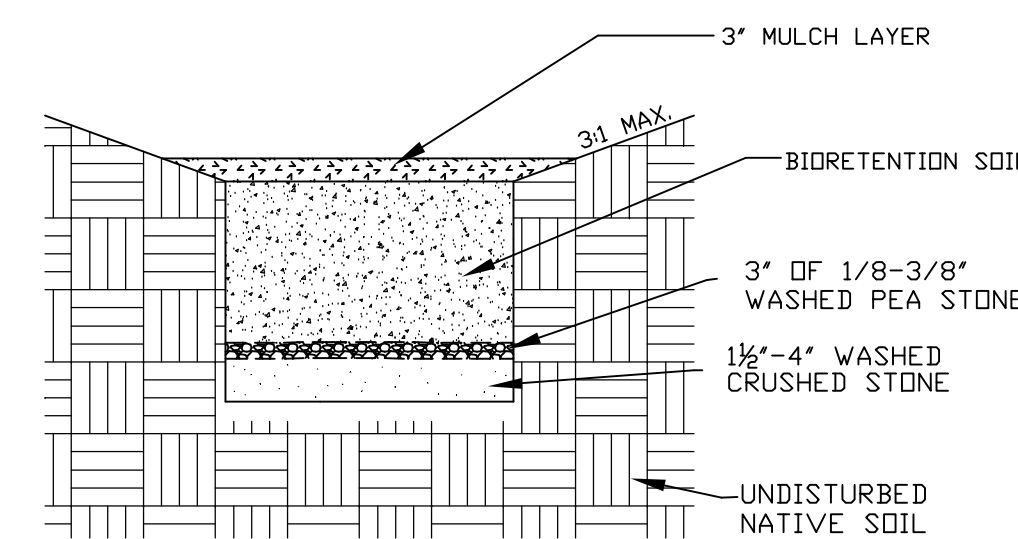
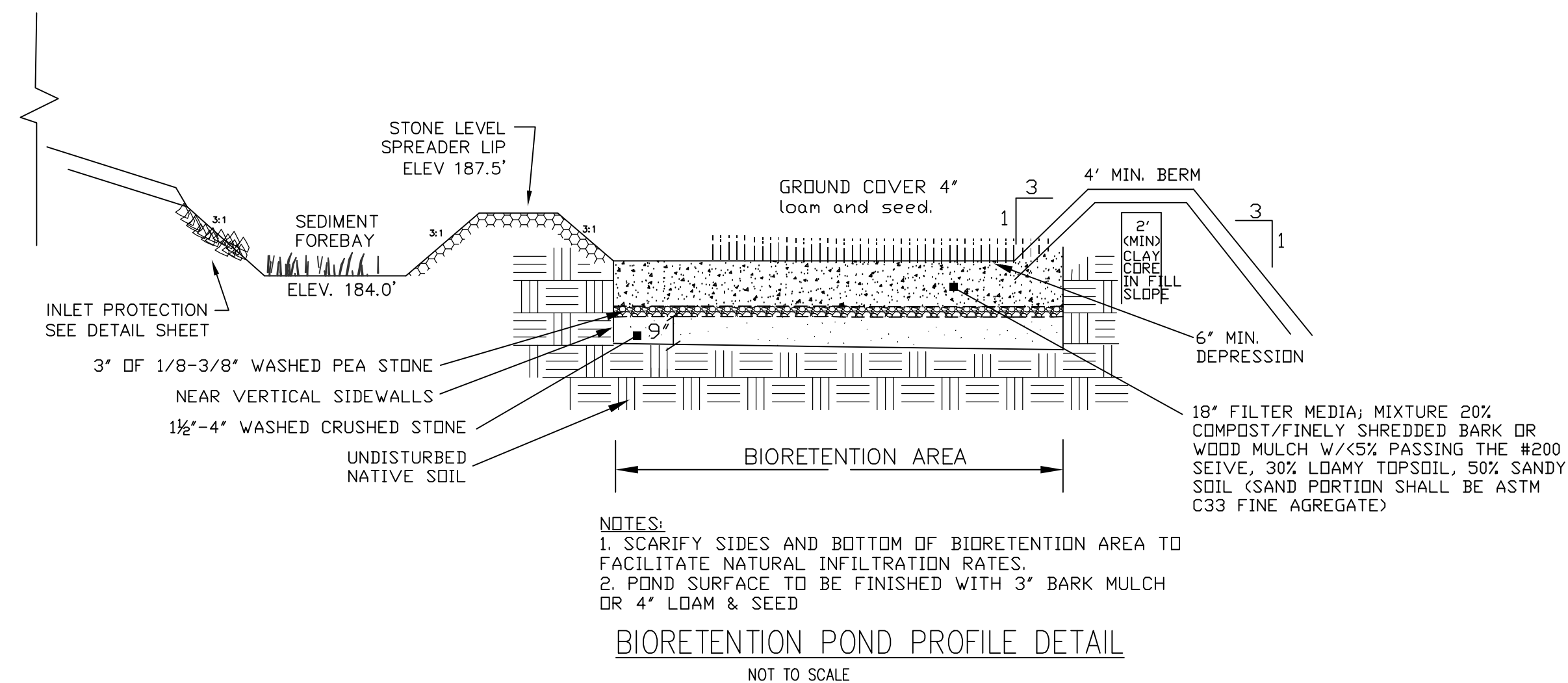
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

DRAINAGE NOTES:

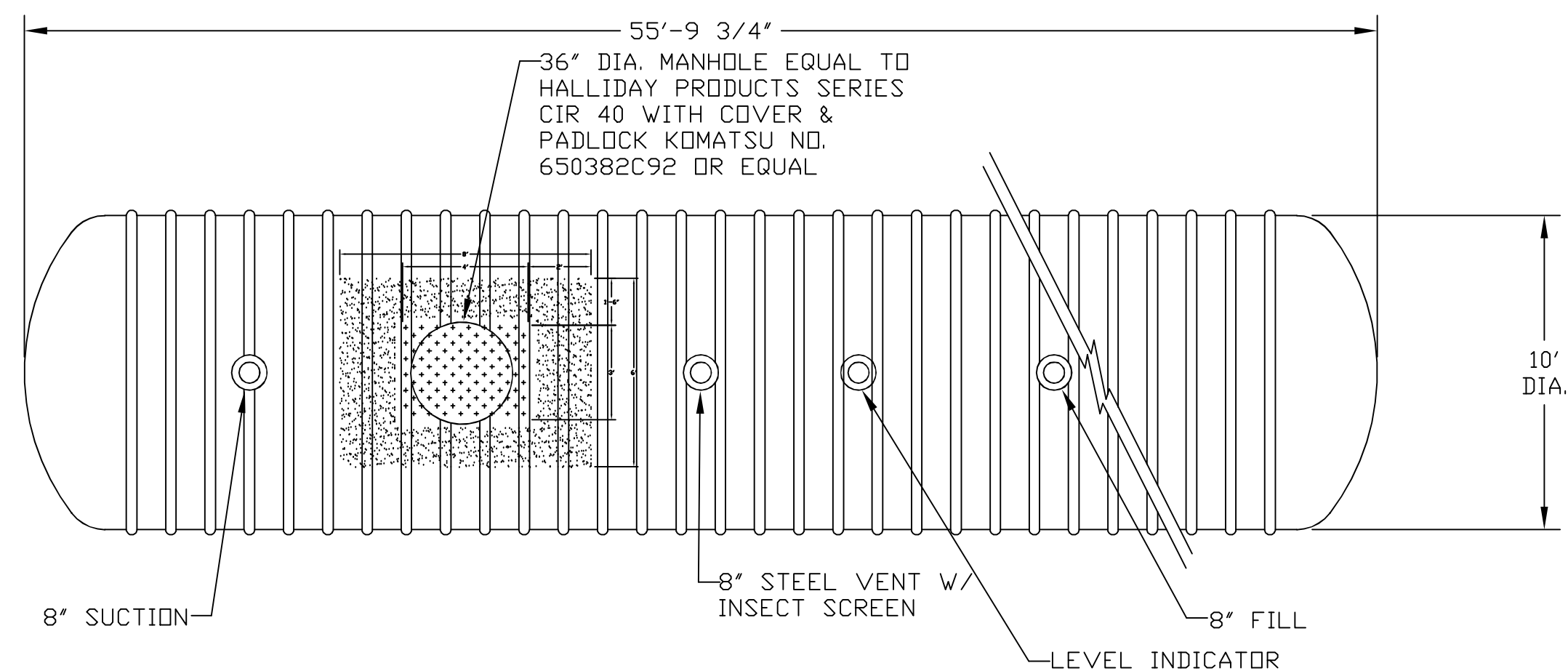
DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
DO NOT PLACE SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BIO-RETENTION AREA DURING ANY STAGE OF CONSTRUCTION.



NOTE: BIORETENTION POND 2 NEED NOT TO BE CONSTRUCTED UNTIL LOT DEVELOPMENT OF LOTS 18 & 19 TAKES PLACE.



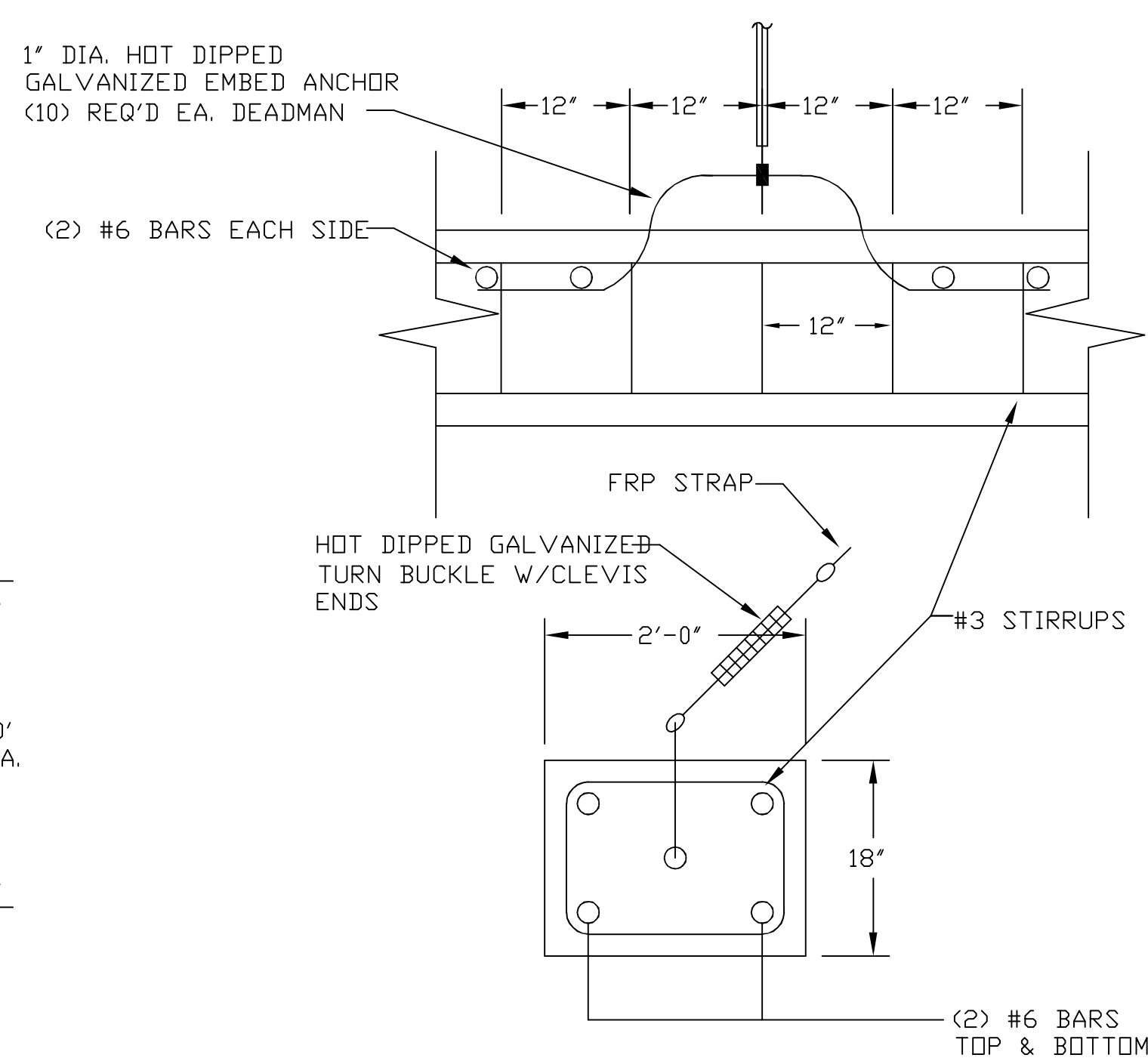
REVISED PER ENG. REVIEW	11-22-21
REVISIONS:	DATE:
DRAINAGE POND PLAN	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: SEPT. 2021	SCALE: 1" = 40'
PROJ. NO: NH-1374	SHT NO. 10 OF 13



NOTE:
ALL CAST-IN PLACE CONCRETE TO BE
4,000 P.S.I. COMPRESSIVE STRENGTH MIN.

30,000 GAL. FIRE CISTERN TANK - PLAN VIEW

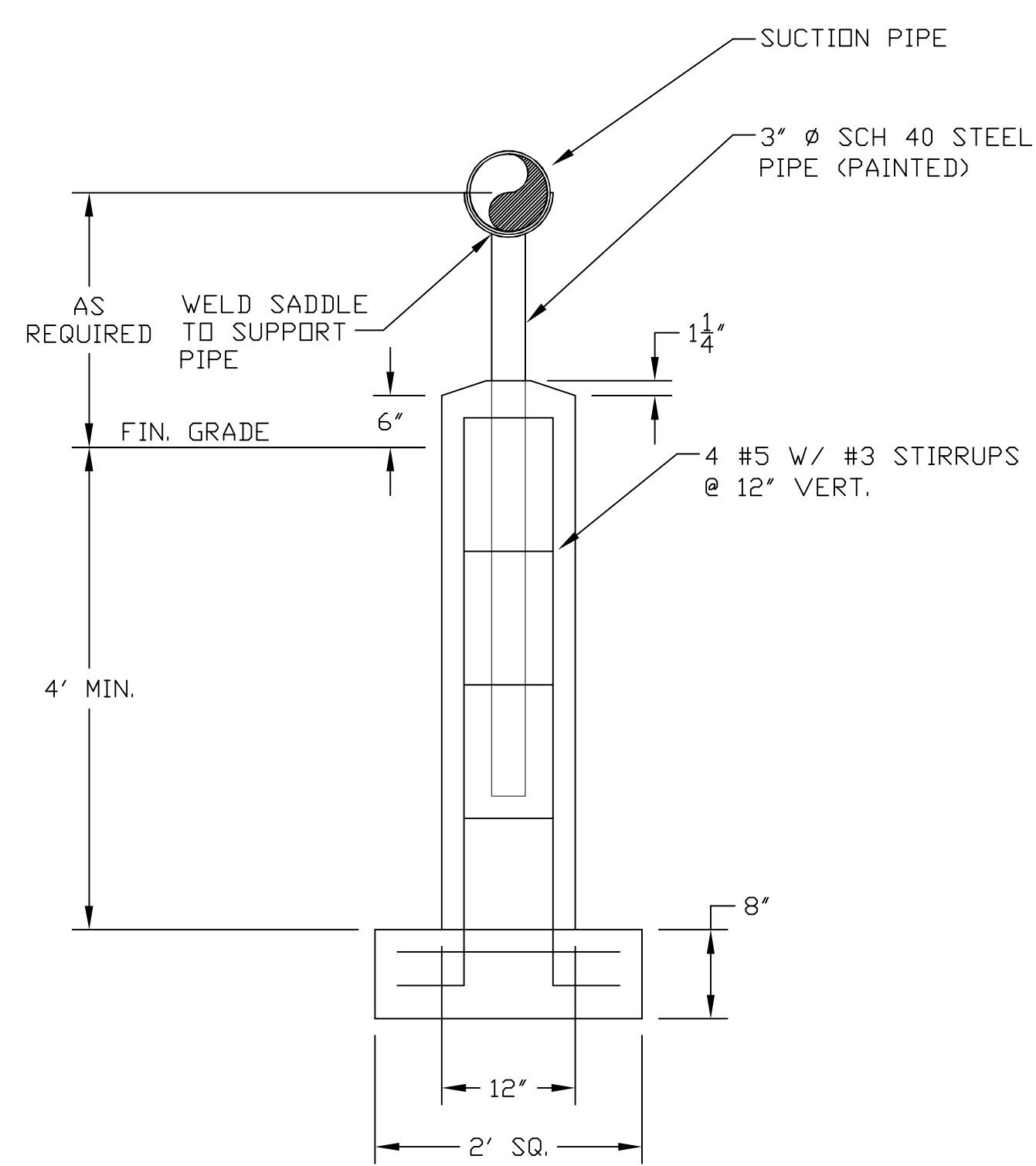
SCALE: 1/8" = 1'-0"



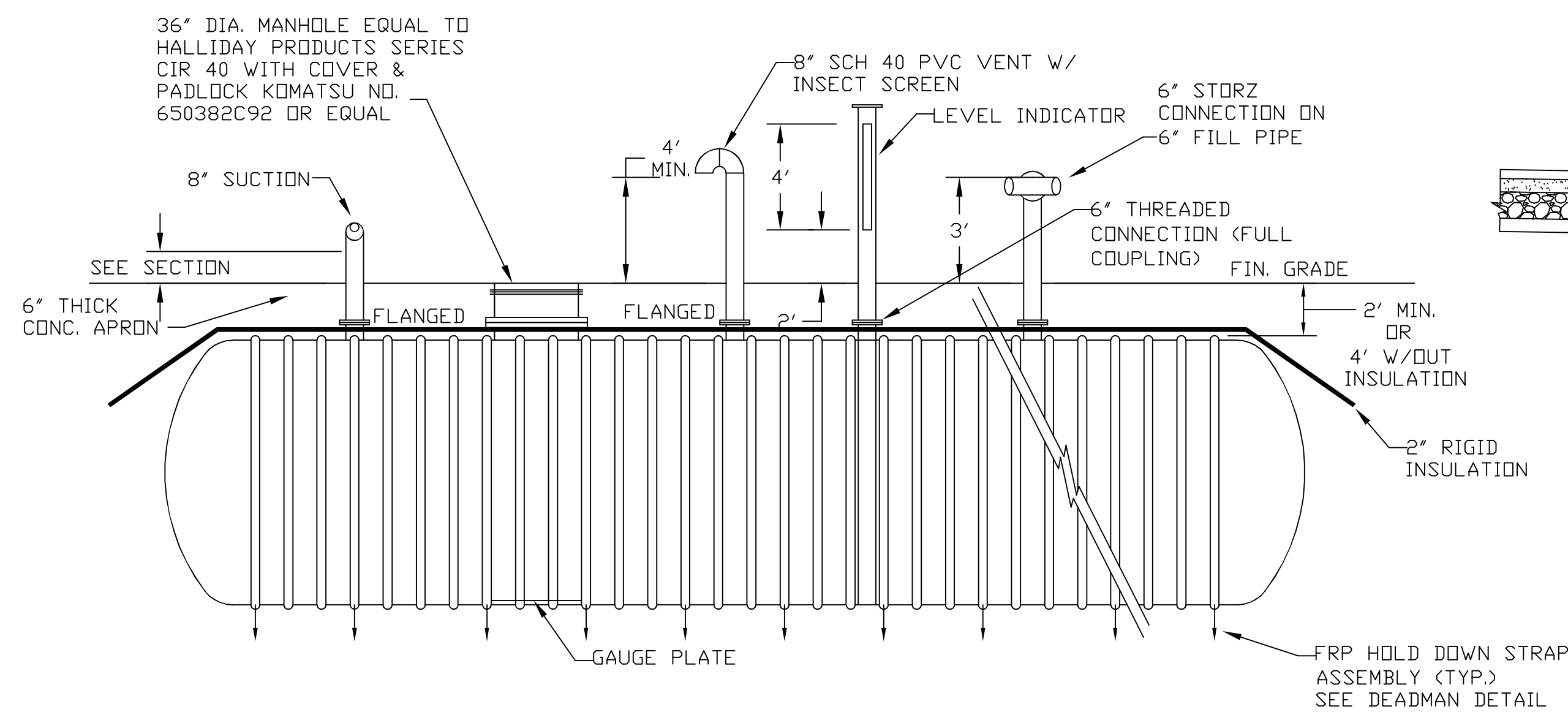
NOTE:
MAINTAIN 3" OF
COVER ON THE REBAR.

DEADMAN - DETAIL

SCALE: NONE

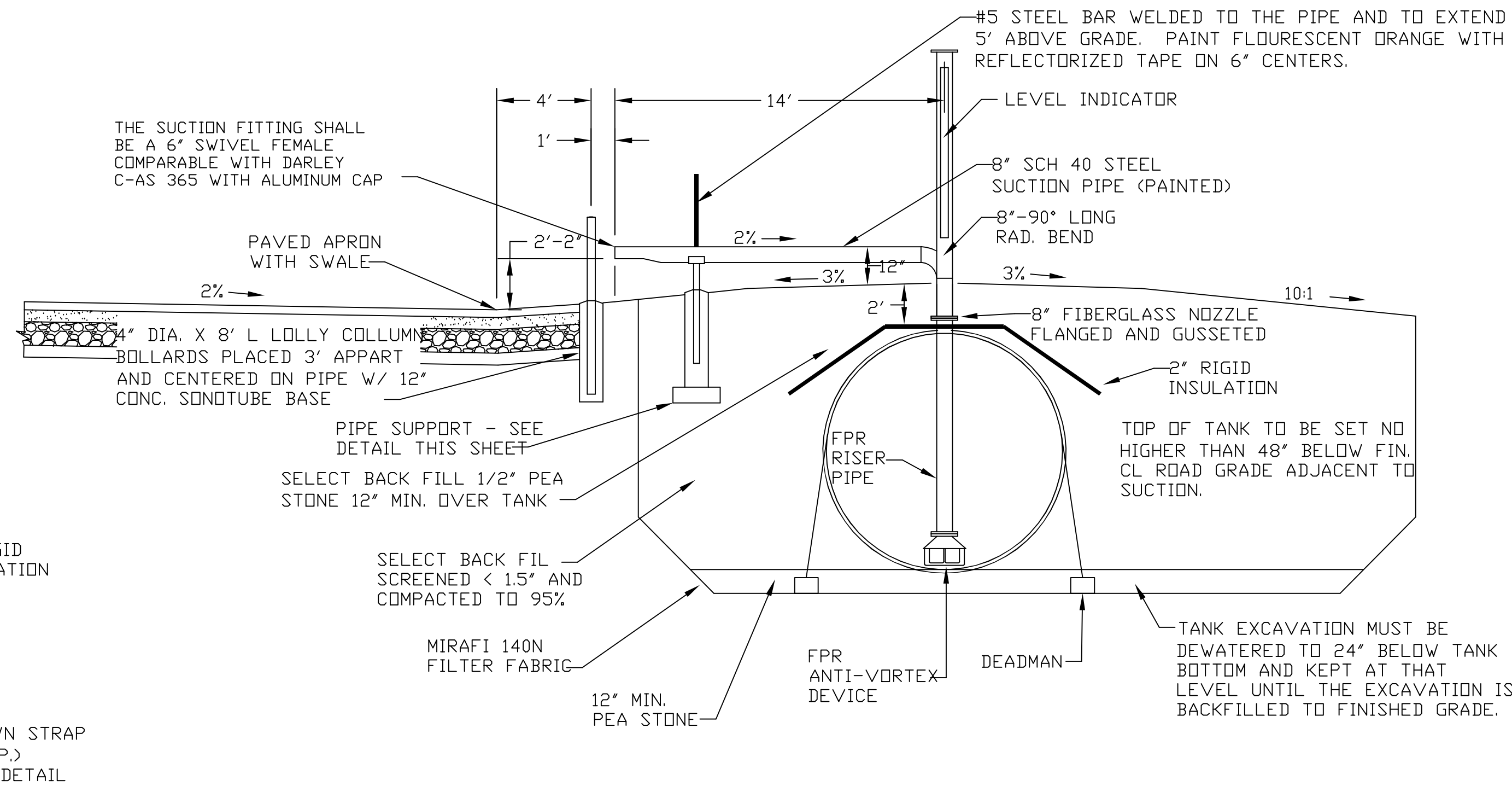


PIPE SUPPORT - DETAIL



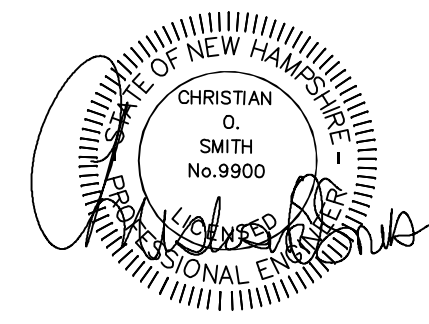
30,000 GAL. FIRE CISTERN TANK - ELEVATION

SCALE: 1/8" = 1'-0"



30,000 GAL. FIRE CISTERN TANK - SECTION

SCALE: 1/8" = 1'-0"

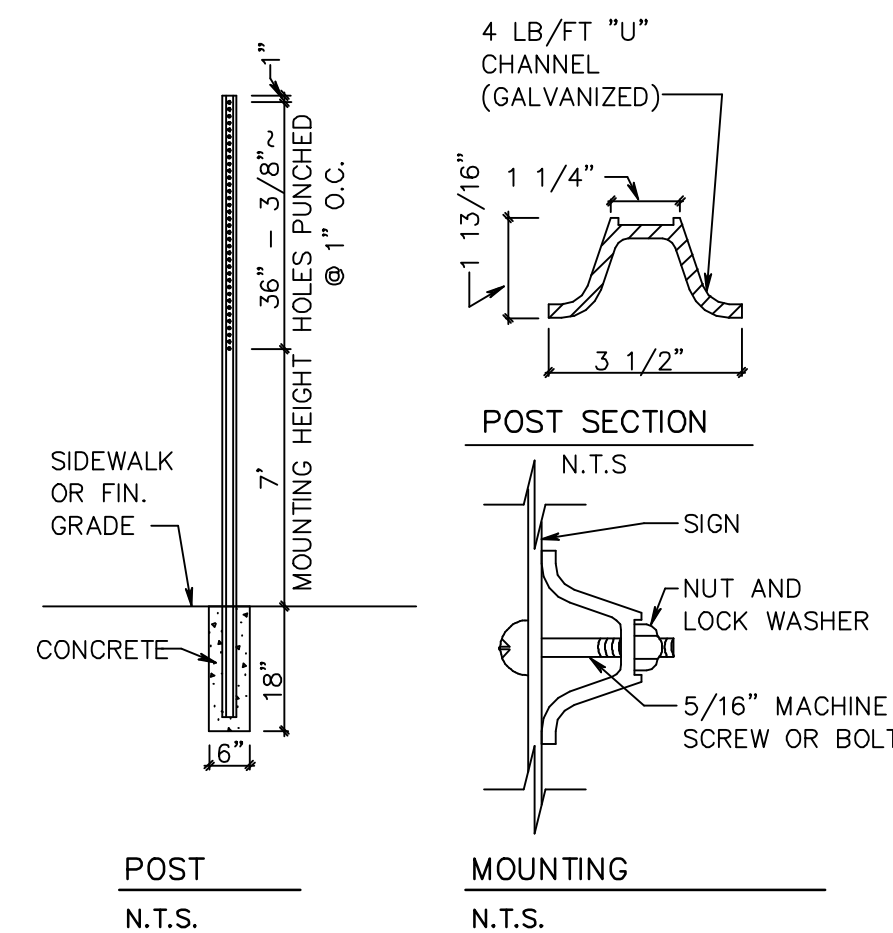


REVISIONS:	DATE:

TYPICAL 30,000 GAL. FIRE CISTERN
PLAN AND DETAILS

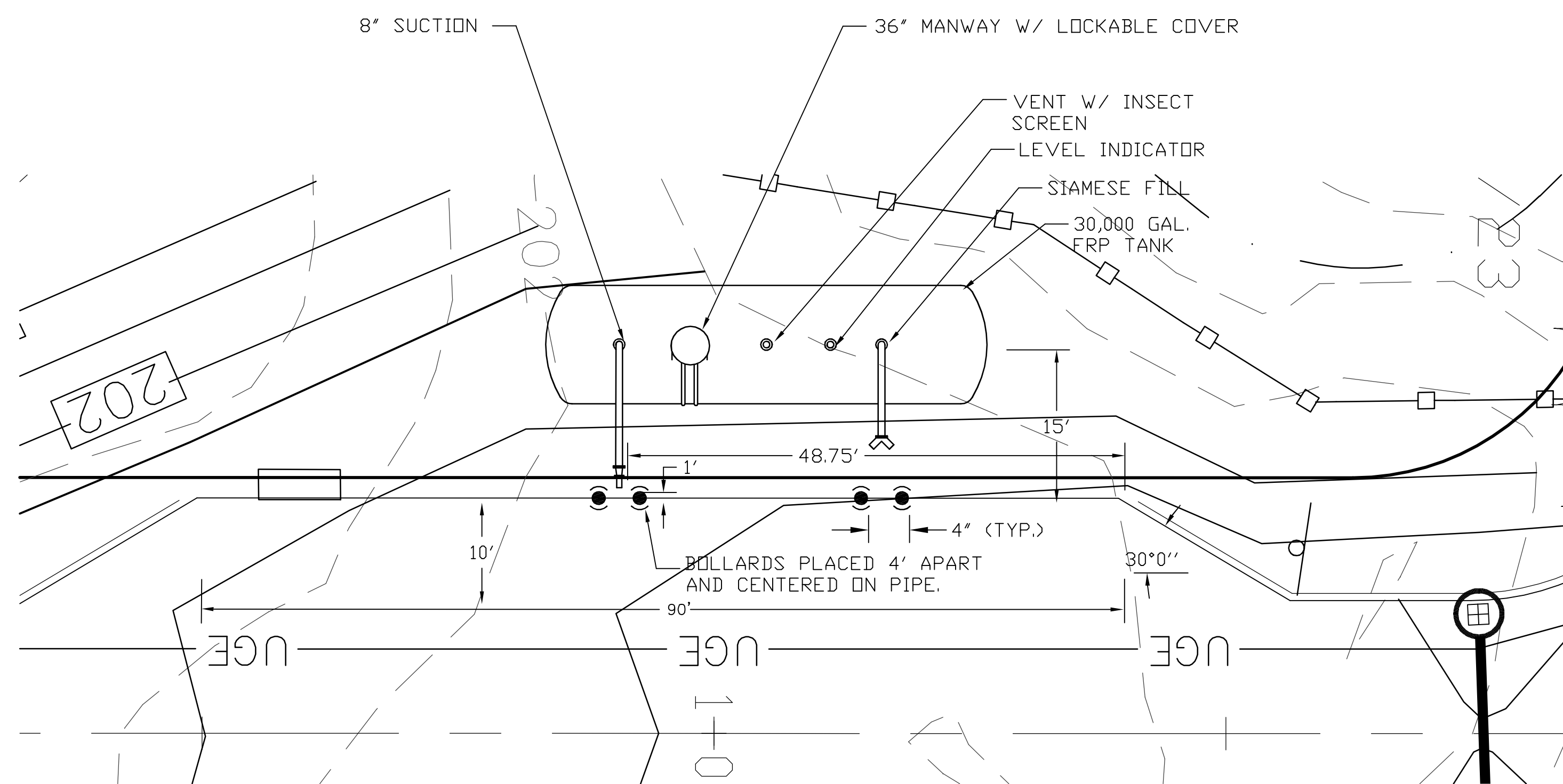
PLAN FOR:
RESIDENTIAL DEVELOPMENT
N. RIVER ROAD
EPPING, NH

DATE:	SEPT. 2021	SCALE:	NOTED
PROJ. NO.:	NH-1374	SHEET NO.:	11



STREET SIGN DETAIL
 STOP SIGN (R1-1) 30" x 30"
 SPEED LIMIT SIGN (R2-1) 24" x 30"

TRAFFIC CONTROL SCHEDULE					
SIGN NUMBER	SIGN	SIZE OF SIGN WIDTH HEIGHT	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT
R1-1		30" 30"	WHITE ON RED	CHANNEL	7'-0"
R2-1		18" 24"	BLACK ON WHITE	CHANNEL	7'-0"
W14-2		24" 24"	BLACK ON YELLOW	CHANNEL	7'-0"

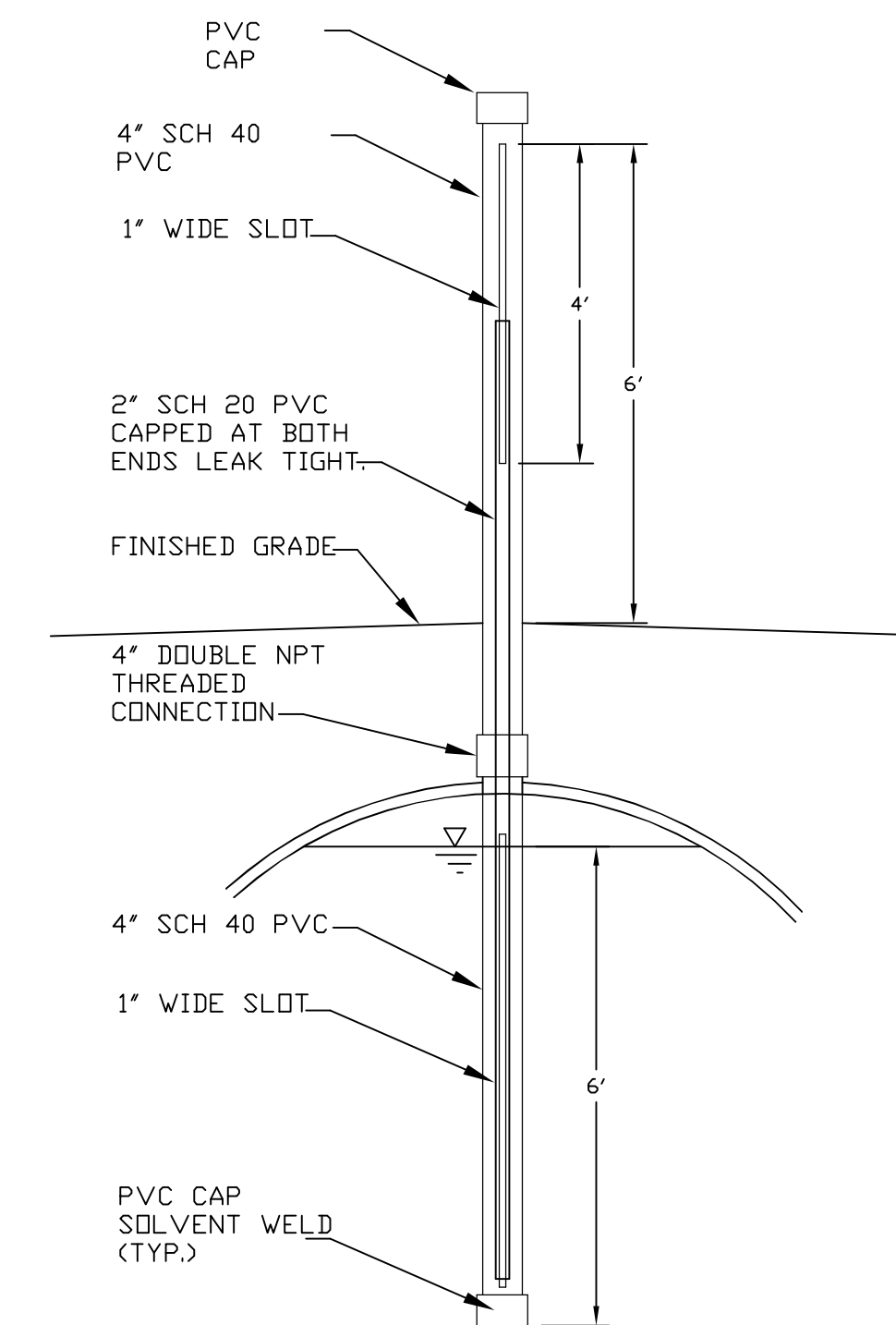


30,000 GAL. FIRE CISTERN - SITE PLAN
 SCALE: 1" = 10'

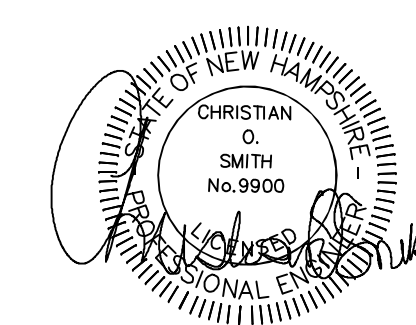
- NOTE:
- IF THE VEHICLE PAD IS TO BE CONSTRUCTED AT A LOCATION WHERE A ROADSIDE SWALE OR DITCH EXISTS AN APPROPRIATELY SIZED SMOOTH INTERIOR CULVERT PIPE MUST BE INSTALLED THE FULL LENGTH OF THE PAD WITH MORTAR AND RUBBLE HEADWALLS AT EACH END.
 - THE INTENT OF SHEETS 1 AND 2 FOR THE 30,000 GALLON F.R.P. CISTERN IS TO PROVIDE A STANDARD DESIGN APPROACH TO BE USED BY PROJECT DESIGN ENGINEERS. EACH PROPOSED CISTERN MUST BE SPECIFICALLY DESIGNED FOR THE SITE.
 - THE DESIGN OF CISTERN SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE FIRE DEPARTMENT AS WELL AS THE PLANNING BOARD.

REQUIREMENTS:

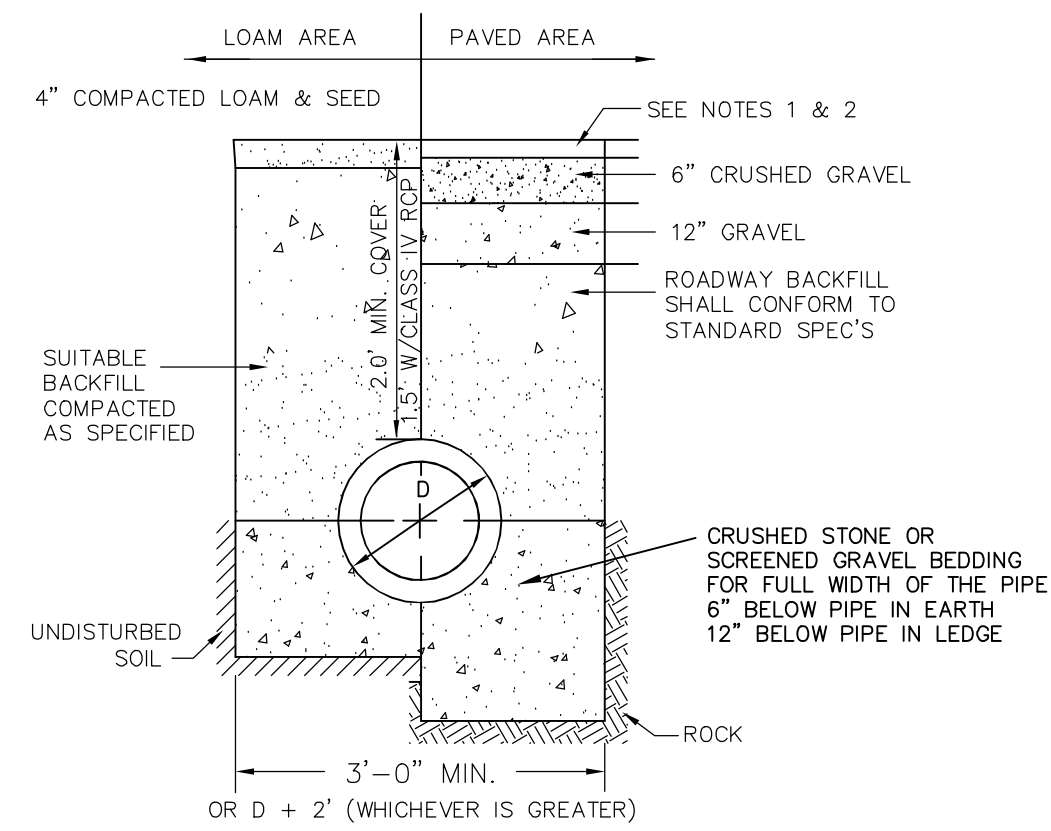
- ALL EXTERNAL SUCTION, VENT, LEVEL INDICATOR AND FILL PIPING SHALL BE SCHEDULE 40 STEEL.
- ALL BENDS SHALL BE LONG SWEEP BENDS.
- ALL HORIZONTAL PIPING SHALL SLOPE AWAY FROM THE ROAD, TOWARDS THE TANK AT 2%.
- ALL PIPE-TO-TANK CONNECTIONS SHALL BE FLANGED & GUSSETED CONNECTIONS WITH THE EXCEPTION OF THE LIQUID LEVEL GAUGE, WHICH SHALL BE A 6" NPT FULL THREADED COUPLING.
- ALL UNDERGROUND, EXPOSED PIPING SHALL BE COATED WITH ONE APPLICATION OF CIM 1000.
- ALL ABOVE-GROUND PIPING SHALL BE PAINTED WITH THE FOLLOWING:
 - 4 MILS OF EPOXY PRIMER
 - 4-6 MILS OF "SAFETY RED" EPOXY PAINT (BOLLARDS TO BE "SAFETY YELLOW")
 - 2-3 MILS OF URETHANE COVER COAT
- THE PIPE DIAMETERS ARE TO BE:
 - SUCTION - 8"
 - FILL - 6"
 - VENT - 8"
 - FILL GAUGE - 4"
- THE FILL FITTING SHALL BE 6" SCH 40 STEEL WITH STORZ CONNECTORS WITH LOCKING CAPS, AND BE 36" ABOVE THE FINISH PAVEMENT.
- THE SUCTION FITTING SHALL BE A 6" SWIVEL FEMALE COMPAREABLE WITH DARLEY C-AS 365 WITH ALUMINUM CAP, AND THE CONNECTION CAP WILL BE SECURELY CHAINED TO THE FILL PIPE OR COUPLING. THE CENTERLINE OF THE SUCTION POINT MUST BE 36 INCHES ABOVE THE FINISH PAVEMENT OF THE PAVED APRON AT THAT FITTING.
- THE BOLLARDS SHALL BE LOCATED FOUR (4) FEET APART, WITH THE FILL AND SUCTION PIPE CONNECTIONS AT THE CENTER OF THIS MEASUREMENT, ONE FOOT IN FRONT OF THE SUCTION AND FILL CONNECTIONS.
- WARRANTY:
 - TESTING:
 - REQUIREMENTS:
 - (A) THE FIRE CISTERN TANK WARRANTY SHALL BE 2 YEARS.
 - (B) A COPY OF THE WRITTEN WARRANTY SHALL BE PROVIDED TO THE AUBURN FIRE DEPARTMENT PRIOR TO THE FINAL ACCEPTANCE OF THE FIRE CISTERN.
 - TESTING:
 - REQUIREMENTS:
 - (A) AFTER BACKFILLING OF THE TANK AND THE MANWAY AND MISCELLANEOUS PIPING IS INSTALLED, THE CONTRACTOR SHALL SCHEDULE THE REQUIRED FLOW TEST WITH THE FIRE DEPARTMENT. THE TANK SHALL BE FILLED APPROXIMATELY HALF (1/2) FULL. THE CISTERN MUST BE ABLE TO PROVIDE AT LEAST 1,000 GALLONS PER MINUTE FOR A PERIOD OF FIVE (5) MINUTES.
 - (B) IF THE TANK PASSES THE FLOW TEST, THE TANK MUST BE FILLED WITH POTABLE WATER TO WITHIN 1 INCH OF THE MANWAY. THE INSTALLER MAY ALLOW THE FILLED TANK TO SIT FOR ONE (1) DAY PRIOR TO COMMENCEMENT OF THE TEST. THE TEST DURATION WILL BE FOURTEEN (14) CALENDAR DAYS. THE TANK LEVEL MEASUREMENTS WILL BE MADE AND RECORDED BY THE AGENT OF THE AUBURN FIRE DEPARTMENT. THE FIRE DEPARTMENT WILL PROVIDE THE SPECIFIED LOCK AND KEY FOR USE BY THE AGENT TO SECURE THE MANWAY COVER DURING THE TEST. THE TEST IS A ZERO-LEAKAGE TEST. AFTER THE FOURTEEN-DAY TEST, IF LEAKAGE IS VERIFIED, THE TANK AND OR COMPONENTS MUST BE REPAIRED TO STOP THE LEAK. ANY REPAIRS MADE MUST BE ACCEPTABLE TO THE AUBURN FIRE DEPARTMENT. ANY REPAIRS MADE TO THE TANK MUST BE DONE WITH PRIOR WRITTEN RECOMMENDATION BY THE TANK'S MANUFACTURER AND NOTED IN THE WRITTEN WARRANTY.
 - (C) PRIOR TO THE FIRE DEPARTMENT APPROVING THE FIRE CISTERN FOR USE/ACCEPTANCE, THE WATER LEVEL MUST BE FILLED TO APPROXIMATELY 1' FROM THE MANWAY CONNECTION.



TYPICAL LEVEL INDICATOR DETAIL



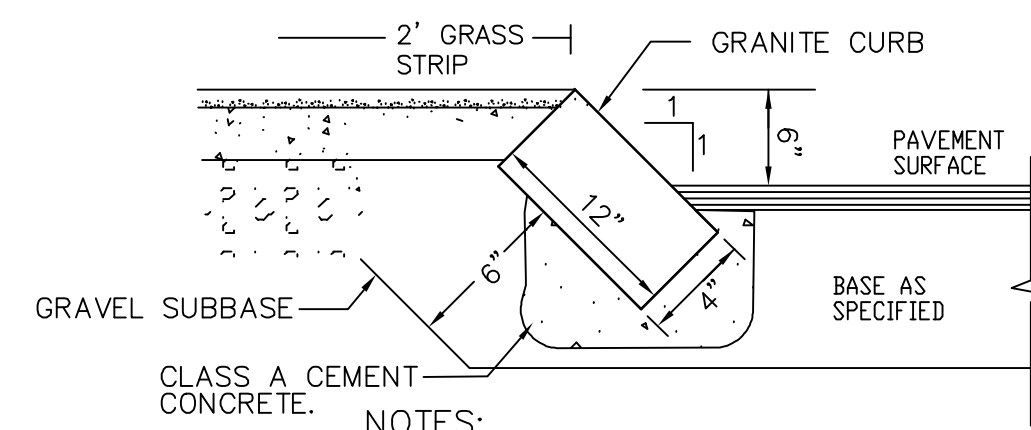
REVISIONS:	DATE:
30,000 GAL. FIRE CISTERN PLAN	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: SEPT. 2021	SCALE: NOTED
PROJ. NO: NH-1374	SHEET NO. 11A



- NOTES:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.

TYPICAL DRAINAGE TRENCH

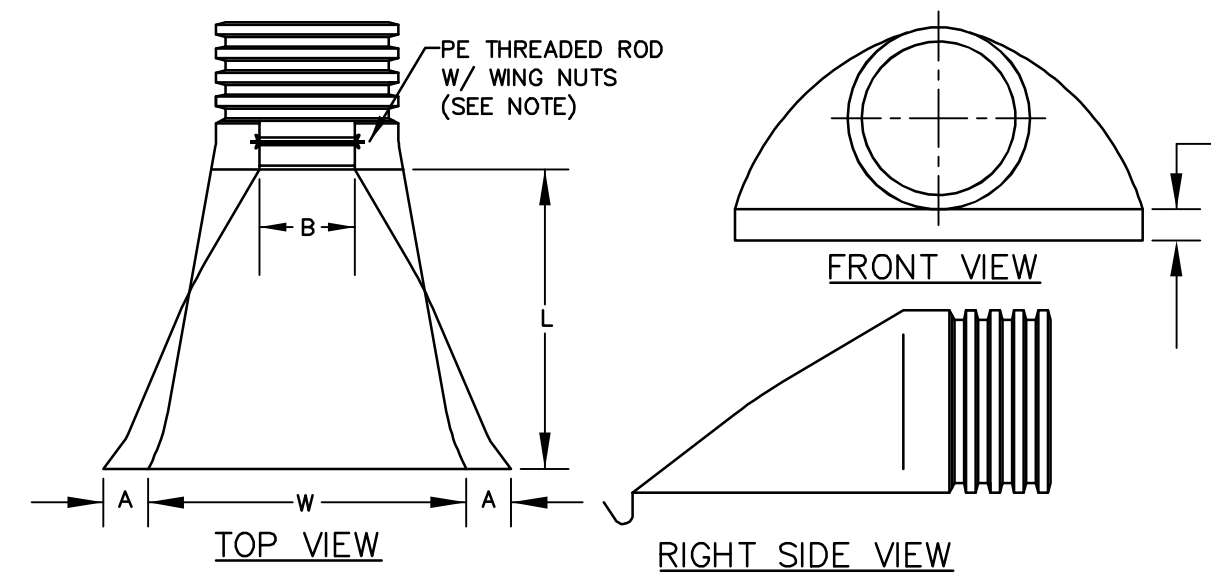
NOT TO SCALE



- NOTES:
1. EDGING TO BE PLACED PRIOR TO PLACING TOP SURFACE COURSE.
 2. JOINTS BETWEEN STONES SHALL BE MORTARED.
 3. SALVAGE GRANITE CURBS ON-SITE AND RESET TO THE EXTENT POSSIBLE.

GRANITE SLOPE CURB DETAIL

NOT TO SCALE

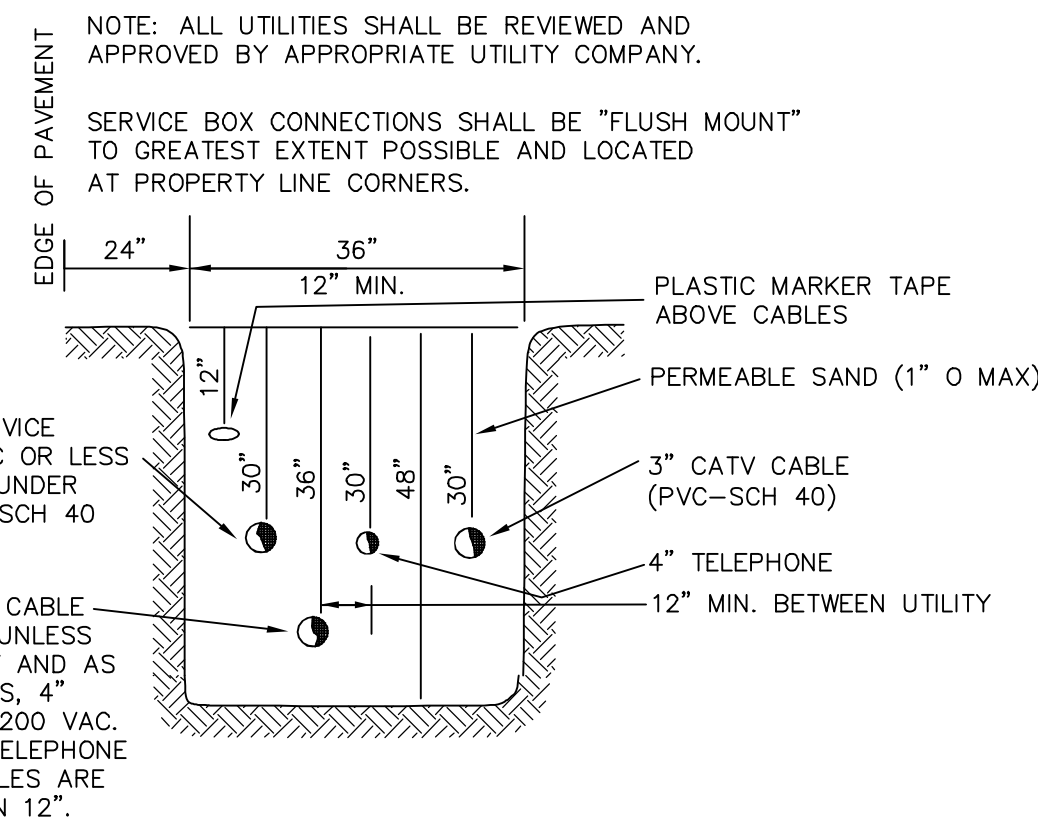


PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15" / 375 mm	6.5" / 165 mm	10" / 254 mm	6.5" / 165 mm	25" / 635 mm	29" / 735 mm
1810-NP	18" / 450 mm	7.5" / 190 mm	15" / 380 mm	6.5" / 165 mm	32" / 812 mm	35" / 890 mm
2410-NP	24" / 600 mm	7.5" / 190 mm	18" / 450 mm	6.5" / 165 mm	36" / 900 mm	45" / 1140 mm
3010-NP	30" / 750 mm	10.5" / 266 mm	N/A	7.0" / 178 mm	53" / 1345 mm	68" / 1725 mm
3610-NP	36" / 900 mm	10.5" / 266 mm	N/A	7.0" / 178 mm	53" / 1345 mm	68" / 1725 mm

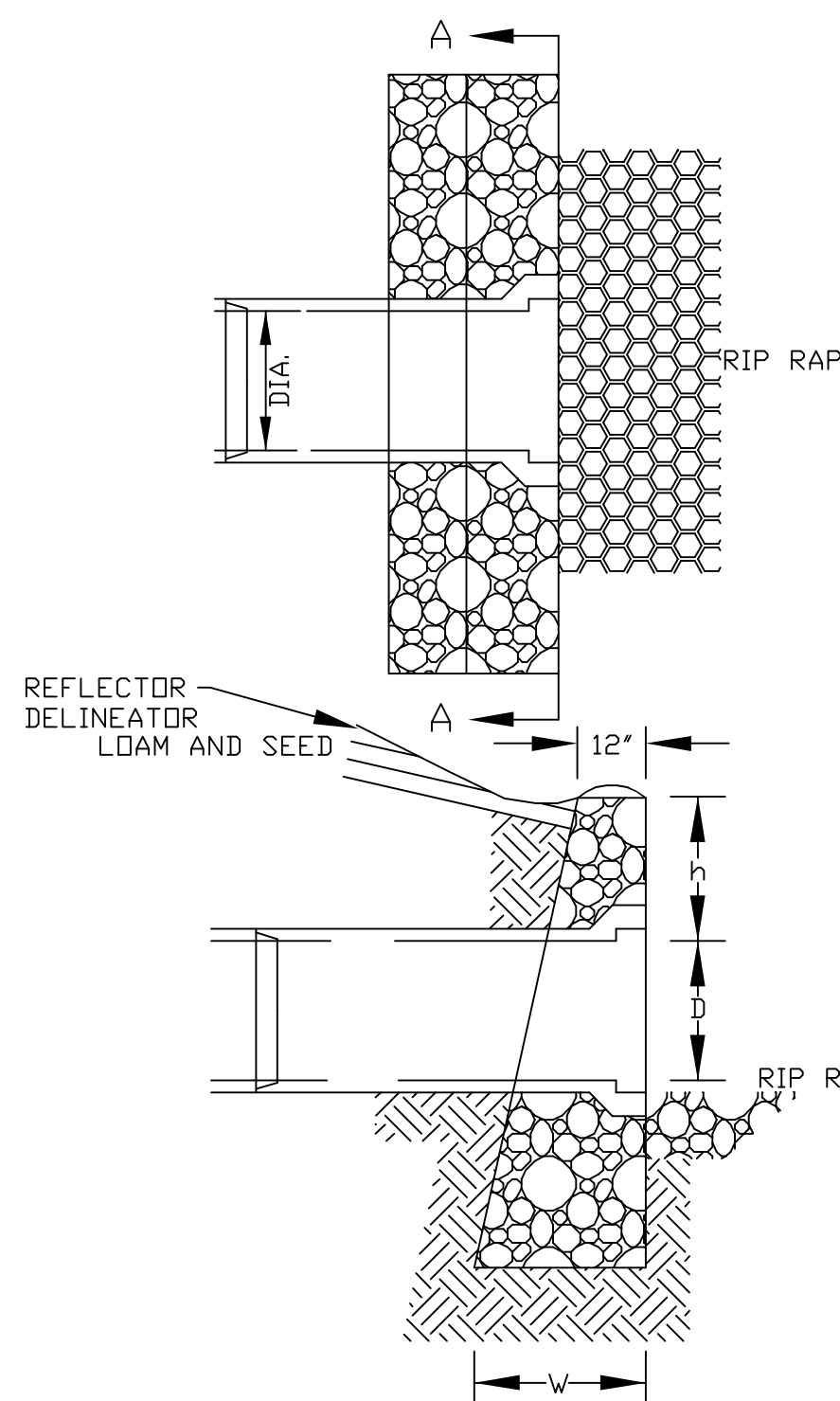
NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24". 30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)

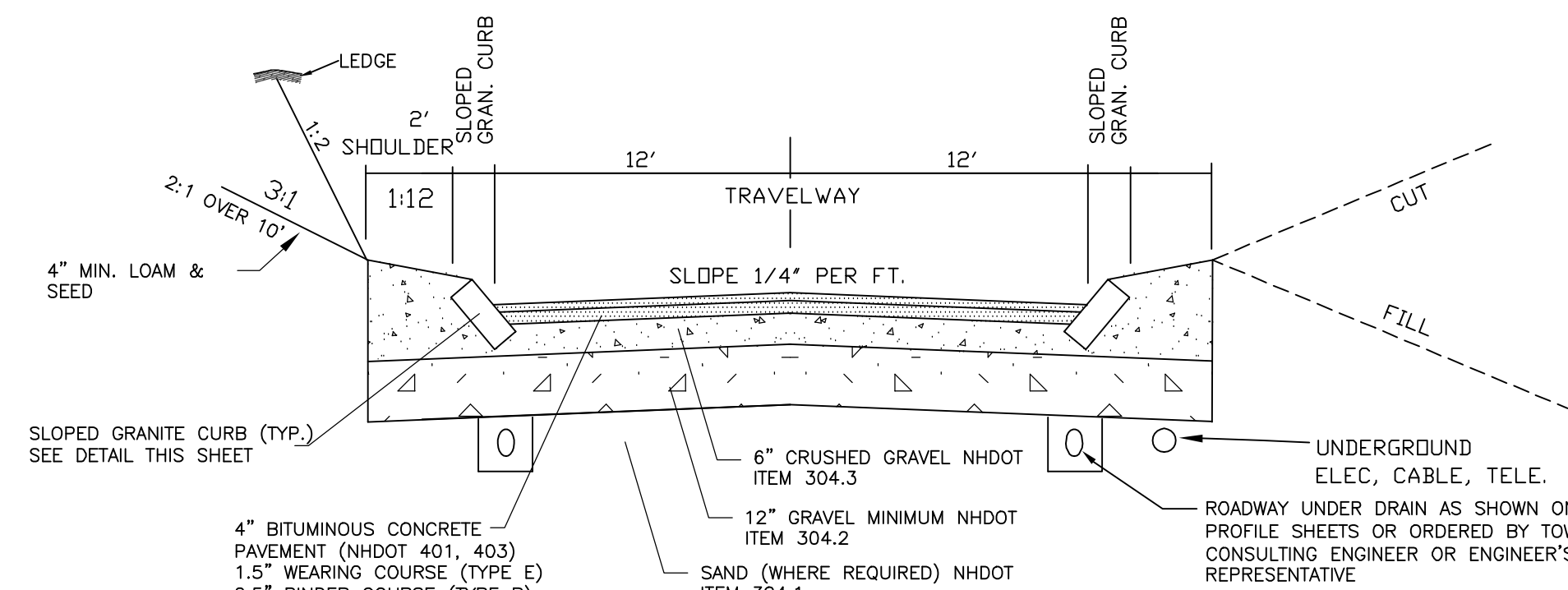


UTILITY TRENCH DETAIL



LONGITUDINAL SECTION MORTAR RUBBLE, MASONRY HEADWALL DETAIL

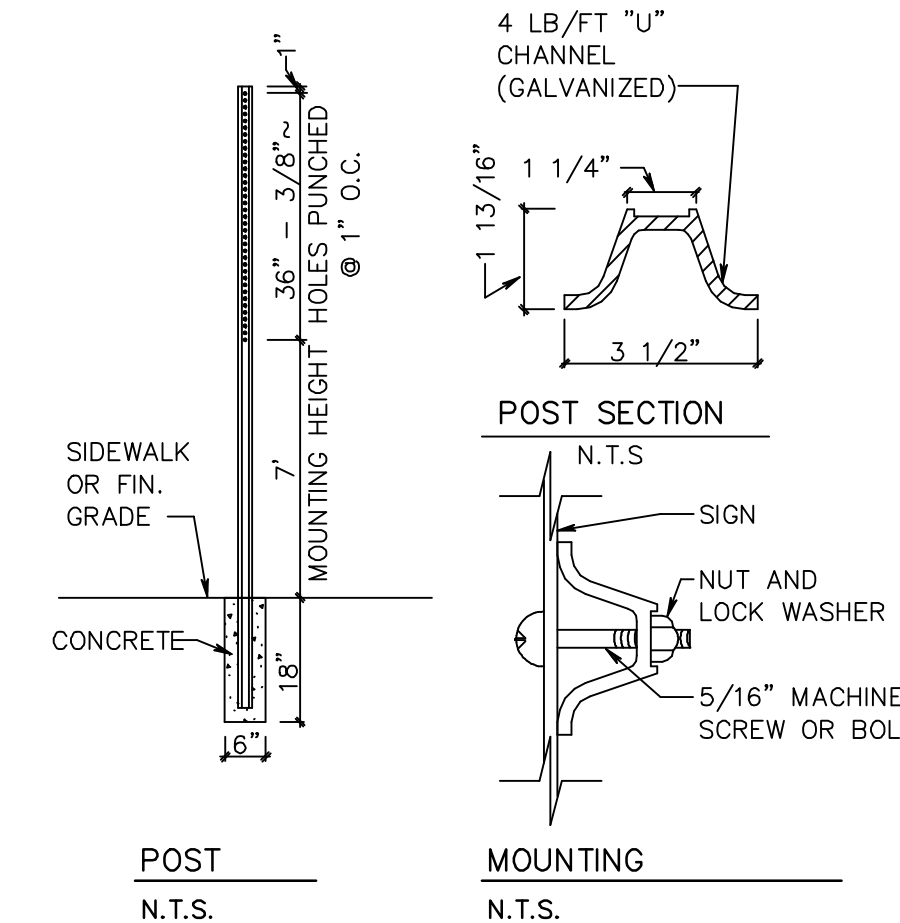
NOT TO SCALE



TYPICAL CROSS SECTION

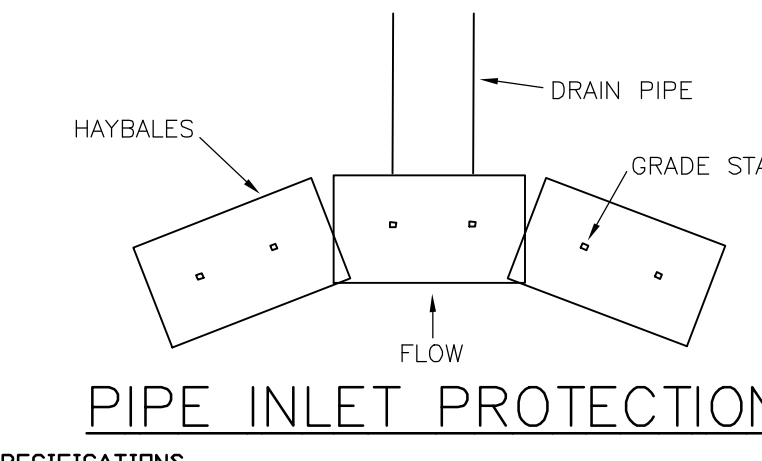
BACKFILL MATERIAL SHALL CONSIST OF STONES, ROCK FRAGMENTS AND FINE HARD DURABLE PARTICLES FREE FROM HARMFUL AMOUNTS OF ORGANIC MATTER. THE WEAR SHALL NOT EXCEED 60 PERCENT.
 2.1.1. GRANULAR BACKFILL (SAND) SHALL CONSIST PRIMARILY OF PARTICLES WITH 100% PASSING THE 3" SIEVE AND 70% PASSING THE NO. 4 SIEVE.
 2.1.2. GRANULAR BACKFILL (GRAVEL) SHALL CONSIST OF A MIXTURE OF STONES AND ROCK FRAGMENTS AND PARTICLES WITH 95-100% PASSING THE 3" SIEVE AND 25-70% PASSING THE NO. 4 SIEVE.
 TOWN MAY REQUIRE UNDERDRAIN OR ADDITIONAL DRAINAGE TO INCLUDE OVER EXCAVATION OF UNSUITABLE MATERIALS AND INSTALLATION OF GEOTEXTILE FABRIC. IN CONDITIONS OF UNSUITABLE MATERIAL THE ENTIRE LENGTH AND WIDTH OF R.D.W. SHALL BE EXCAVATED 4" BELOW EXISTING GRADES UNSUITABLE MATERIAL REMOVED AND REPLACED WITH SUITABLE MATERIAL.
 BANK RUN GRAVEL AND CRUSHED GRAVEL INSTALLED IN SIX INCH LIFTS, COMPACTED TO 95% COMPACTION OF THE OPTIMUM MODIFIED PROCTOR DENSITY.

TRAFFIC CONTROL SCHEDULE						
SIGN NUMBER	SIGN	SIZE OF SIGN WIDTH HEIGHT	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT	REMARKS
R1-1	STOP	30" x 30"	WHITE ON RED	CHANNEL	7'-0"	REFLECTORIZED SIGN
R2-1	SPEED LIMIT 25	18" x 24"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
W14-2	NO OUTLET	24" x 24"	BLACK ON YELLOW	CHANNEL	7'-0"	REFLECTORIZED SIGN
W16-8P	Proposed Rd.	VARIES	WHITE ON GREEN	CHANNEL	7'-0"	REFLECTORIZED SIGN
31-0650(D)	NO PARKING THE HOUR	12" x 18"	RED ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN (MODIFIED WORDING)



STREET SIGN DETAIL

STOP SIGN (R1-1) 30" x 30"
 SPEED LIMIT SIGN (R2-1) 24" x 30"



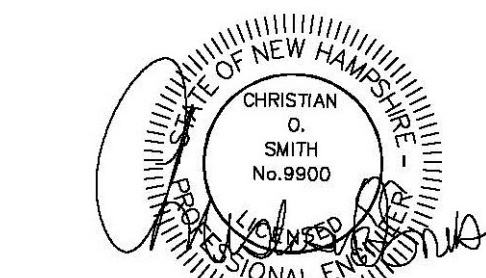
PIPE INLET PROTECTION

SPECIFICATIONS

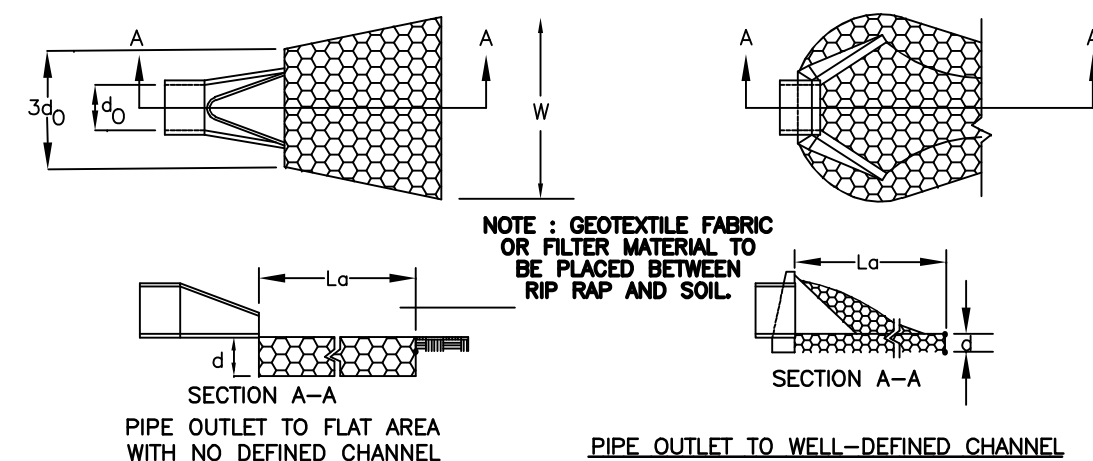
SEDIMENT BARRIERS SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. BALES SHOULD BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. THE ENDS OF THE BARRIER SHOULD BE FLARED UP SLOPE. BARRIERS SHOULD NOT BE CONSTRUCTED MORE THAN ONE BALE HIGH.
 ALL BALES SHOULD BE EITHER WIRE-BOUND OR STRING-TIED. BALES SHOULD BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES, PARALLEL TO THE GROUND SURFACE TO PREVENT DETERIORATION OF THE BINDINGS.
 THE BARRIER SHOULD BE ENTRENCHED AND BACKFILLED. A TRENCH SHOULD BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES.
 AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHOULD BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHOULD CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHOULD BE BUILT UP 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. IDEALLY, 10 FEET AWAY FROM THE TOE OF SLOPE.
 AT LEAST TWO STAKES DRIVEN THROUGH THE BALE AND PENETRATING AT LEAST 18 INCHES INTO THE GROUND, SHOULD SECURELY ANCHOR EACH BALE.
 THE FIRST STAKE IN EACH BALE SHOULD BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES SHOULD BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
 THE GAPS BETWEEN BALES SHOULD BE CHINKED (FILLED BY WEDGING) WITH HAY TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.
 INSPECTION SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. BALE BARRIERS SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

PREPARED FOR:
CHINBURG PROPERTIES INC
 3 PENSTOCK WAY
 NEWMARKET, NH 03857

BA BEALS ASSOCIATES, PLLC
 70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863



REVISIONS:	DATE:
CONSTRUCTION DETAILS	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: SEPT. 2021	SCALE: AS NOTED
PROJ. NO: NH-1374	SHEET NO. 12 OF 13

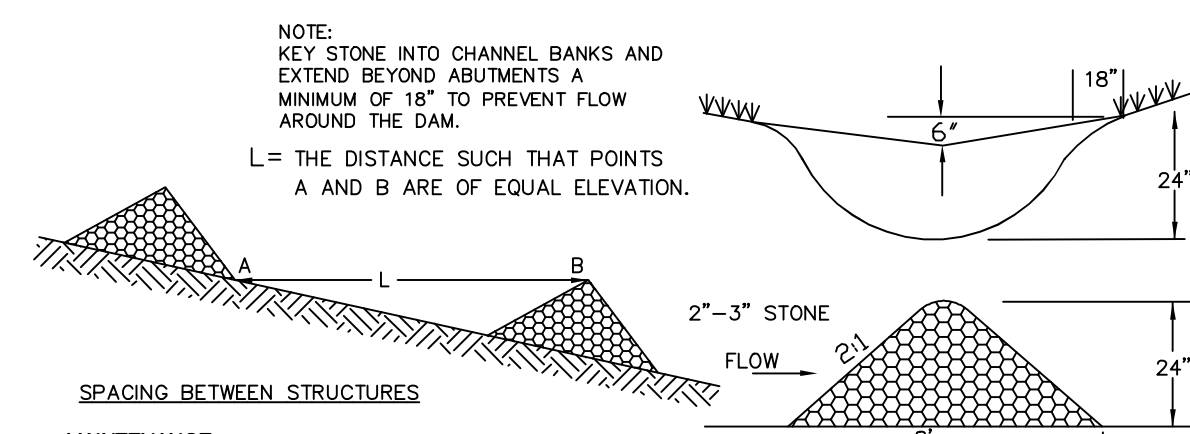


CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION. 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. STONE FOR RIPRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE-THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT.
6. FLAT ROCKS SHALL NOT USED FOR RIP RAP. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

OUTLET PIPE LOCATION	LENGTH (')	WIDTH (')
25' UD STA 0+50 LT	8	W-SWALE
25' STA 10+70	16	W-SWALE

PIPE OUTLET PROTECTION



TEMPORARY STONE CHECK DAM

MAINTENANCE

TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED STORMY WEATHER. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS REPAIRED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

REMOVAL

AFTER VEGETATION HAS STABILIZED, THESE TEMPORARY STRUCTURES SHALL BE REMOVED WITH SPECIAL CARE AS TO AVOID DISTURBING ANY UNDERLYING EROSION CONTROL FABRIC AND/OR EXISTING VEGETATION.

TEMPORARY EROSION CONTROL MEASURES

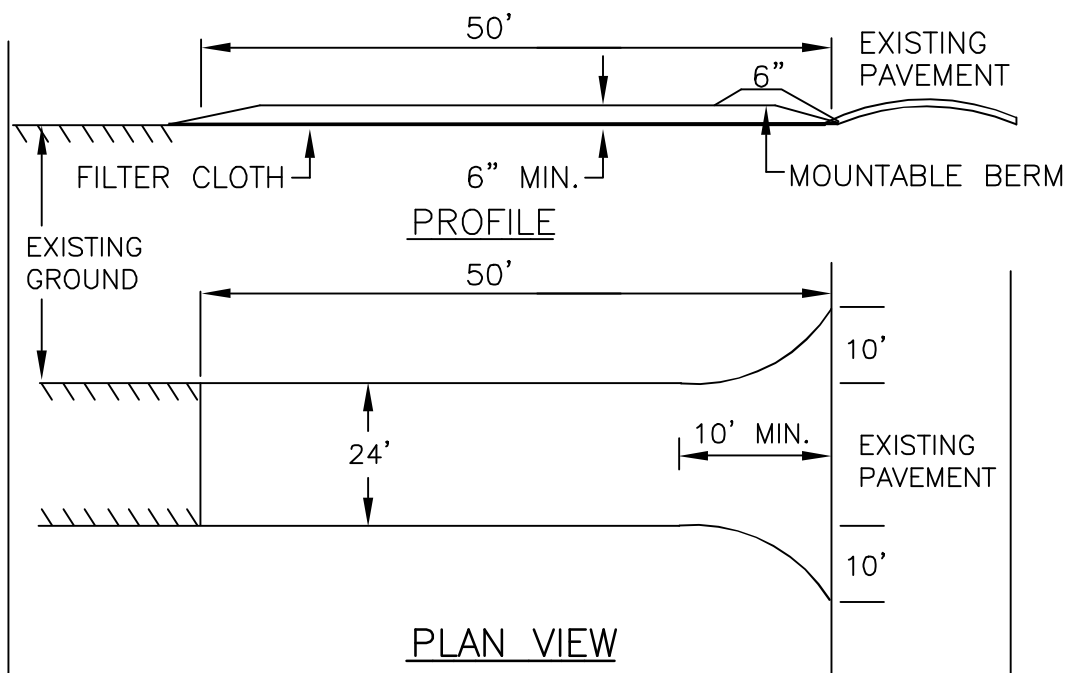
1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE ENGINEER. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.
3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1.10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA. (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS FOR THIS SHEET.
4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDED AND MULCHED WITHIN 30 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL.
- * AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 65% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS RIPRAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN HAY BALES ARE USED, THE BALES SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.
4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.
8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES

CONSTRUCTION SEQUENCE

1. CUT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNOFF TO THEM.
3. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS.
4. EXCAVATE AND STOCKPILE TOPSOIL (LOAM). ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED OR DIRECTED.
6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, PARKING AREAS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SEEDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE.
7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED.
9. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION/DRAIN RUNOFF AND PREVENT ANY SITUATION OF ABUTTING WATERS OR PROPERTY.
10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
13. ALL INFILTRATION BASINS, GRAVEL WETLANDS, SWALES AND DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AND FULLY STABILIZED (INCLUDING STABILIZATION OF ALL AREAS CONTRIBUTING STORMWATER TO EACH GIVEN STRUCTURE) PRIOR TO HAVING RUNOFF DIRECTED TO THEM.
14. FINISH PAVING ALL ROADWAYS/DRIVEWAYS/PARKING AREAS.
15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

WINTER MAINTENANCE

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER OCTOBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.
2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.
3. PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.
4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
 - A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
 - A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
 - A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS PER 1,000 SQ. FT.
 - FERTILIZER SHALL BE LIMITED TO AN ORGANIC SLOW RELEASE FERTILIZER PRODUCT (Pro Gro 5-3-4 By NORTH COUNTRY ORGANICS OR EQUIVALENT).
 - Total Nitrogen (N).....5.0%
 - 1.5% Water Soluble Nitrogen
 - 3.5% Water Insoluble Nitrogen
 - Available phosphate (P2O5).....3.0%
 - Soluble Potash (K2O).....4.0%
 - B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
 - C. REFER TO TABLE(G-E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRDS FOOT TREFLOL, AND FLAT PEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
 - D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
 - A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 SQ. FT.
5. MAINTENANCE TO ESTABLISH A STAND
 - A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

MIX MATERIAL

(1) HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS THAT IS:

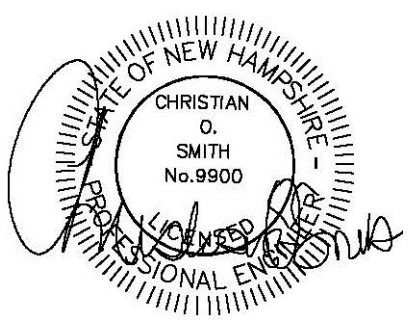
- A. FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS; AND
- B. NOT COMPRISED OF WOOD CHIPS, BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS;

(2) NOT CONTAIN SILTS, CLAYS, OR FINE SANDS;

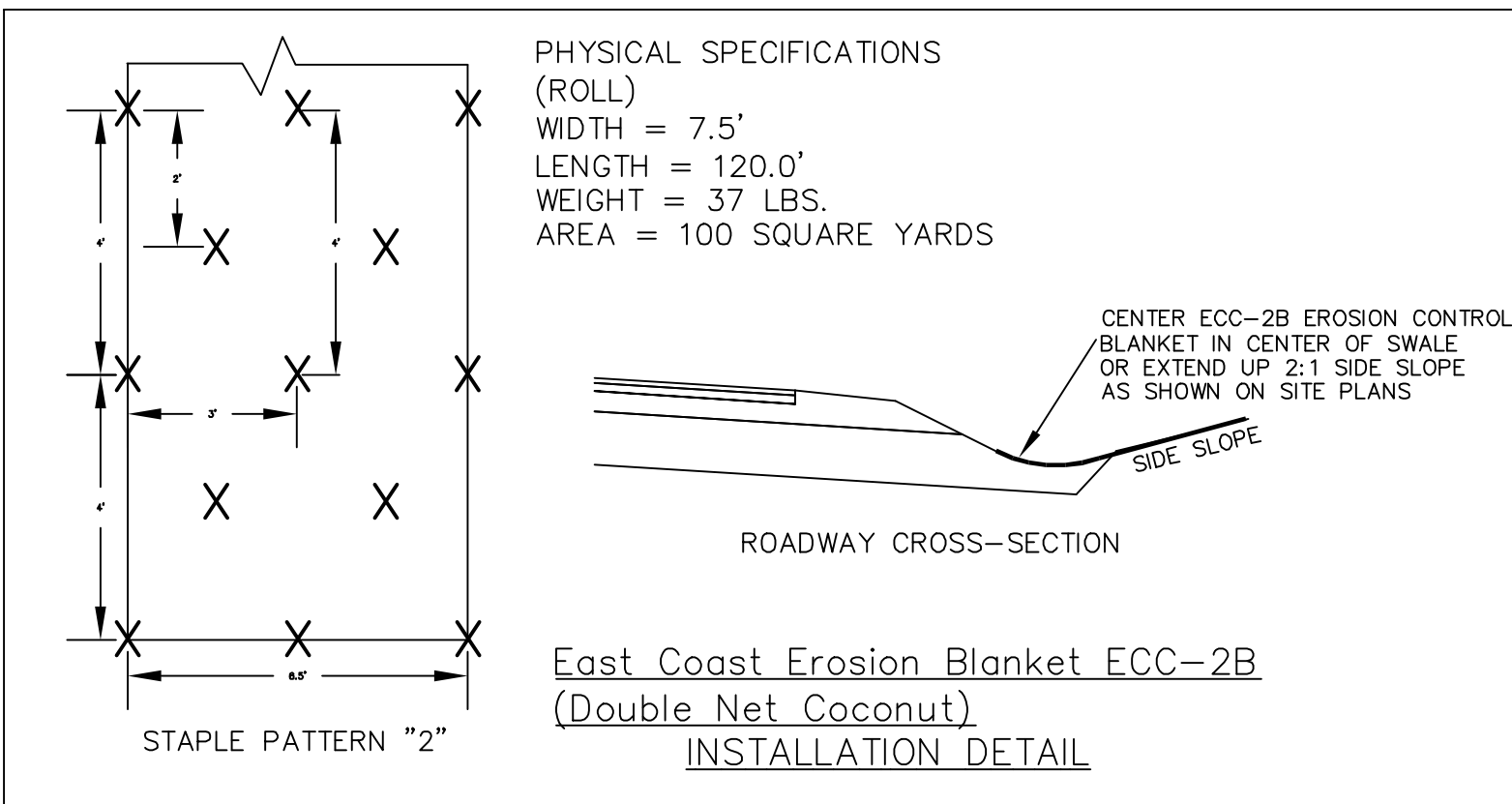
(3) HAVE A PARTICLE SIZE BY WEIGHT OF 100% PASSING A 3-INCH SCREEN, 90% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND 30% TO 75% PASSING A 0.25-INCH SCREEN; AND

(4) HAVE A PH BETWEEN 5.0 AND 8.0.

Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditches, streams, etc. NOT TO BE USED IN AREAS WHERE THE UPSLOPE AREA EXCEEDS 5%.



Erosion Control Mix Berm



PHYSICAL SPECIFICATIONS (ROLL)

- WIDTH = 7.5'
- LENGTH = 120.0'
- WEIGHT = 37 LBS.
- AREA = 100 SQUARE YARDS

East Coast Erosion Blanket ECC-2B (Double Net Coconut) INSTALLATION DETAIL

TABLE 7-24-RECOMMENDED RIP RAP GRADATION RANGES

THICKNESS OF RIP RAP = 0.25 FEET	3 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN #50 SIZE	SIZE OF STONE (INCHES) FROM TO
100%	5 6
85%	4 5
50%	3 5
15%	1 2

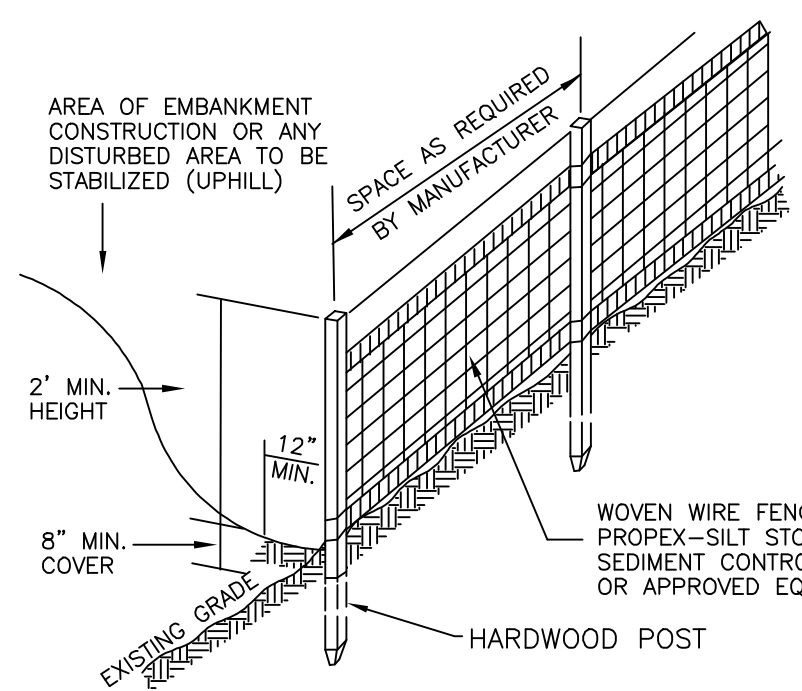
TABLE 7-24-RECOMMENDED RIP RAP GRADATION RANGES

THICKNESS OF RIP RAP = 0.50 FEET	6 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN #50 SIZE	SIZE OF STONE (INCHES) FROM TO
100%	9 12
85%	8 11
50%	6 9
15%	2 3

Section A - A SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREeping RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRDS FOOT TREFLOL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREeping RED FESCUE 1/2	50	1.15
KENTUCKY BLUEGRASS 1/2	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

1/2 FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.



SILT FENCE

SEEDING GUIDE

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

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.

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

REVISIONS:	DATE:
EROSION & SEDIMENTATION	
PLAN FOR: RESIDENTIAL DEVELOPMENT N. RIVER ROAD EPPING, NH	
DATE: SEPT. 2021	SCALE: AS NOTED
PROJ. NO: NH-1374	SHEET NO. 13 OF 13

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