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 SHEET 31 ~ FIRE TRUCK TURNING MOVEMENTS

SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
 CPSWQ, CPESC, CESSWI
 BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825
 (603) 332-2863

ENGINEER OF RECORD: KENNETH A. BERRY, PE, LLS
 CPSWQ, CPESC, CESSWI
 BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825
 (603) 332-2863

WETLAND SCIENTIST: DIEDRA BENJAMIN, CWS
 100 LEAVITT ROAD
 PITTSFIELD, NH 03263
 (603) 496-3307

WETLAND & SOIL SCIENTIST: JOHN P. HAYES III, CSS, CWS
 7 LIMESTONE WAY
 NORTH HAMPTON, NH 03862
 (603) 205-4396

OWNER: HAMBONE LLC
 242 CENTRAL AVENUE
 DOVER, NH 03820

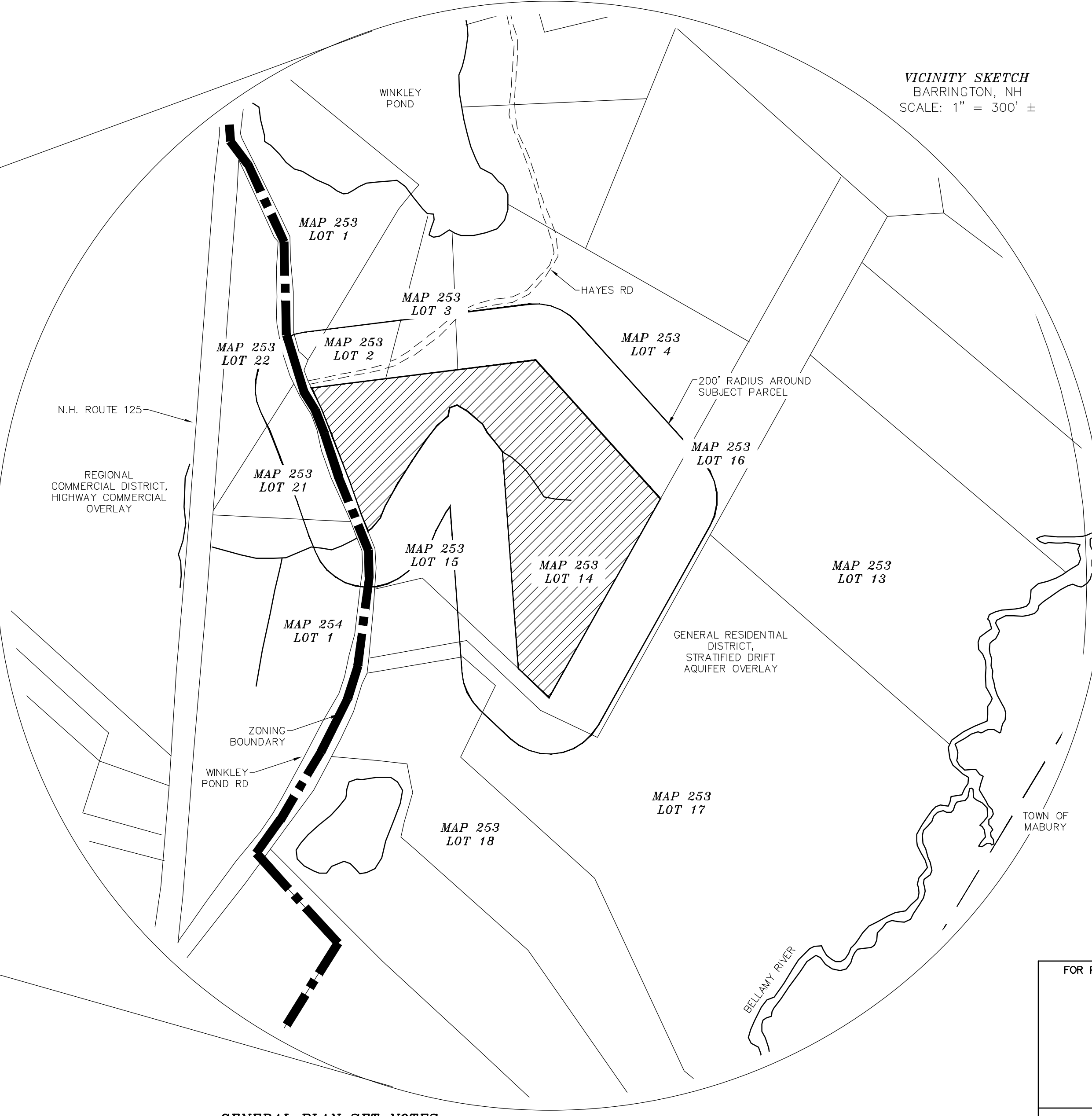
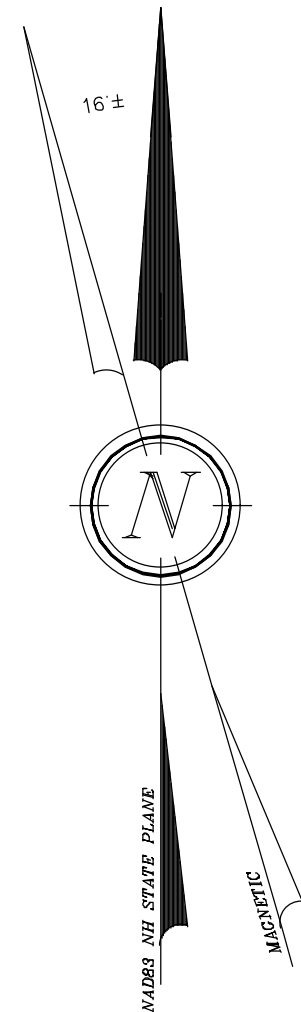
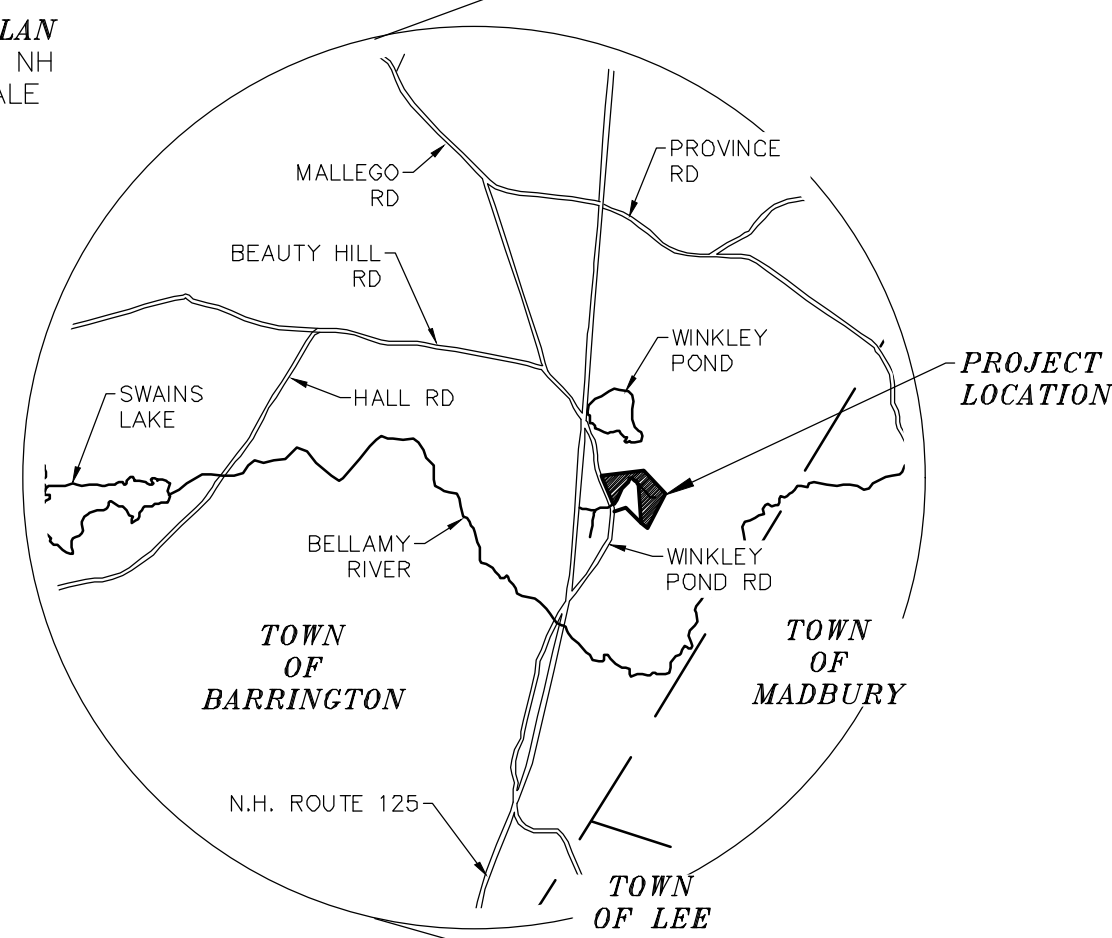
APPLICANT: HAMBONE LLC
 242 CENTRAL AVENUE
 DOVER, NH 03820

RESIDENTIAL SITE PLAN FOR HAMBONE LLC 49 WINKLEY POND RD BARRINGTON, N.H. TAX MAP 253, LOT 14

NOTE:

BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECTS DOCUMENTATION. ALL USERS ARE BOUND TO THIS DOCUMENT AS PART OF THE APPROVAL OF THE PLANNING BOARD. COPIES OF THE YEARLY INSPECTIONS ARE TO BE DELIVERED TO THE TOWN OF BARRINGTON PLANNING DEPARTMENT.

LOCATION PLAN
 BARRINGTON, NH
 NOT TO SCALE



VICINITY SKETCH
 BARRINGTON, NH
 SCALE: 1" = 300' ±

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE PLAN, THE SITE PLAN APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE TOWN OF BARRINGTON LAND SITE PLAN REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INSOFAR AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW. NON - ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SITE PLAN APPROVAL.

REQUIRED PERMITS:

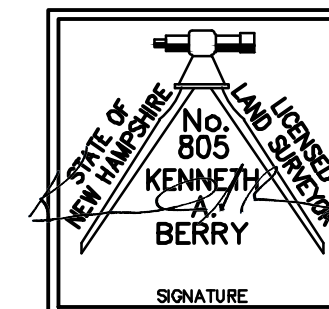
- ~ US EPA NOI & SWPPP
- ~ NH DIVISION OF HISTORICAL RESOURCES
- ~ NHDES SUBSURFACE DISPOSAL PERMIT

(PENDING)
 R&C 15436
 eCA2023111319

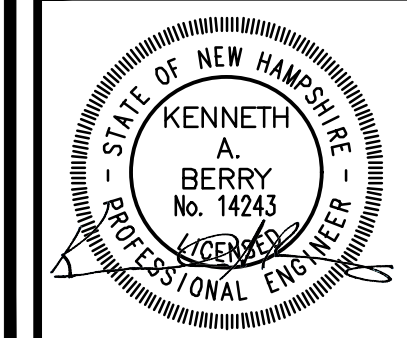
GENERAL PLAN SET NOTES:

- 1.) 11x17" PLANS ARE TWICE THE PUBLISHED SCALE.
- 2.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE TOWN OF BARRINGTON.

FOR PLANNING BOARD APPROVAL PURPOSES:



BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : AS SHOWN
 DATE : AUGUST 16, 2023
 FILE NO. : DB 2021-163

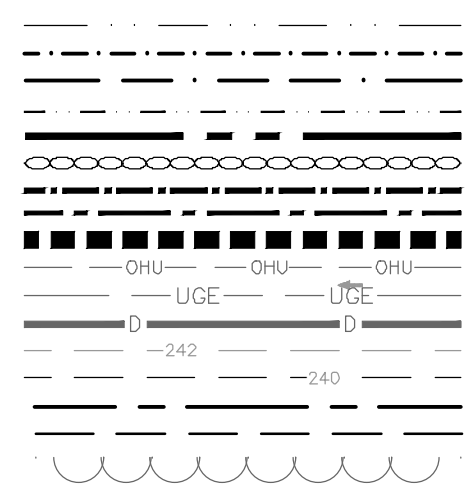


RESIDENTIAL SITE PLAN
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

#1	REVISION	DATE	DESCRIPTION
		11-8-23	REVISED PER CMA ENGINEERS REVIEW

ABBREVIATION LEGEND:

- BITUM. BITUMINOUS
- E.O.P. EDGE OF PAVEMENT
- S.G.C. SLOPED GRANITE CURB
- E.S.H.W.T. ESTIMATED SEASONAL HIGH WATER TABLE
- TYP. TYPICAL
- U.G.E. UNDER GROUND ELECTRIC / UTILITY
- U.D. UNDER DRAIN
- C.O. CLEAN OUT
- G.F.A. GARAGE FINISHED FLOOR
- INV. INVERT
- ELEV. ELEVATION
- F.E.S. FLARED END SECTION
- HDPE HIGH DENSITY POLYETHYLENE
- RCP REINFORCED CONCRETE PIPE
- RECB ROLLED EROSION CONTROL BLANKET
- F.G. FINISHED GRADE
- E.G. EXISTING GRADE
- E.T.A. EDGE OF TRAVELED WAY
- T.B.R. TO BE REMOVED
- PL PROPERTY LINE
- EL EASEMENT LINE
- R.O.W. RIGHT OF WAY
- CL CENTER LINE
- CF CUBIC FEET
- P.O.C. POINT OF CURVATURE
- P.T. POINT OF TANGENCY
- P.V.C. POINT OF VERTICAL CURVATURE
- P.V.I. POINT OF VERTICAL INTERSECTION
- P.V.T. POINT OF VERTICAL TANGENCY
- EX. EXISTING
- PROP. PROPOSED
- R&R REMOVE AND REPLACE
- STA. STATION
- /. FOOT / FOOT



EXISTING LEGEND:

- DRILL HOLE ~FND~
- IRON PIPE ~FND~
- IRON BOUND ~FND~
- STONE BOUND ~FND~
- UTILITY POLE
- GUY WIRE
- SIGNAGE
- TEST PIT
- TEMPORARY BENCHMARK (T.B.M.)
- BLAZED/PAINTED TREE
- BUILDING SETBACK LINE
- POORLY DRAINED JURISDICTIONAL WETLAND LINE
- VERY POORLY DRAINED JURISDICTIONAL WETLAND LINE
- 50' POORLY DRAINED WETLAND BUFFER
- FEMA FLOOD ZONE "A"
- STONE WALL
- NRCS SOIL DELINEATION LINE
- SITE SPECIFIC SOIL LINE
- LIMIT OF SOIL SURVEY
- OVERHEAD UTILITIES LINE
- UNDERGROUND UTILITIES LINE
- EXISTING DRAIN CULVERT
- CONTOUR MINOR, EXISTING
- CONTOUR MAJOR, EXISTING
- CENTERLINE STREAM/BOUNDARY LINE
- SURVEY TIE LINE
- TREELINE

448A
CsB
S.C.R.D.

TYP.
FND

- SOIL SERIES
- NRCS SOIL LABEL
- STRAFFORD COUNTY
- REGISTRY OF DEEDS
- TYPICAL
- FOUND
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH

PROPOSED LEGEND:

- SS () ~ [SIZE] SINGLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
 - DSL () ~ [SIZE] DOUBLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
 - SSB () ~ [SIZE] SINGLE SOLID W/ BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
 - SBL () ~ [SIZE] SINGLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
 - DBL () ~ [SIZE] DOUBLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
-
- PROPOSED LEGEND:**
- F241 CONTOUR MINOR, PROPOSED
 - F240 CONTOUR MAJOR, PROPOSED
 - D DRAIN CULVERT, PROPOSED
 - SHOULDER
 - ROAD CENTER LINE
 - BUILDING SETBACK LINE
 - 125' PROTECTIVE WELL RADIUS (NHDES)
 - SAW CUT & MILL
 - TRANSFORMER / J.BOX
 - UNDERGROUND UTILITY
 - UNDER DRAIN
 - SILT FENCE / EROSION MIX BERM
 - FILTREX 8" - 12" SILT SOX AS SPECIFIED
 - PERIMETER CONTROL (SEE E-101)
 - C CONSTRUCTION FENCE
 - PROPOSED WATER MAIN LINE
 - PROPOSED WATER SERVICE
 - PROPOSED GRAVITY SEWER LINE
 - PROPOSED EFFLUENT FOREMAIN
 - PROPOSED GRAVITY SEWER SERVICE
 - PROPOSED GAS LINE / UG LP TANK
 - GUARD RAIL
 - PAVEMENT SEAM
 - TREELINE
 - EFFLUENT DISPOSAL AREA

- GRANITE BOUND ~TBS~
- 3/4" REBAR W/ ID CAP ~TBS~
- LAMP "A" MOUNTED ON UNIT
- LAMP "B" MOUNTED ON POLE
- SIGNAGE
- CHECK DAM-MATERIAL AS SPECIFIED
- FLOW ARROW
- WELL
- DETAIL SHEET / DETAIL
- RIP RAP
- STORMWATER BEST MANAGEMENT PRACTICE (BMP)
- BERM
- DRAIN MANHOLE W/ STRUCTURE
- CATCH BASIN W/ STRUCTURE
- STORMWATER BMP OUTLET STRUCTURE
- INLINE FLUSHING MANHOLE W/ STRUCTURE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- GATE VALVE
- CURB STOP
- POST HYDRANT
- THRUST BLOCKS

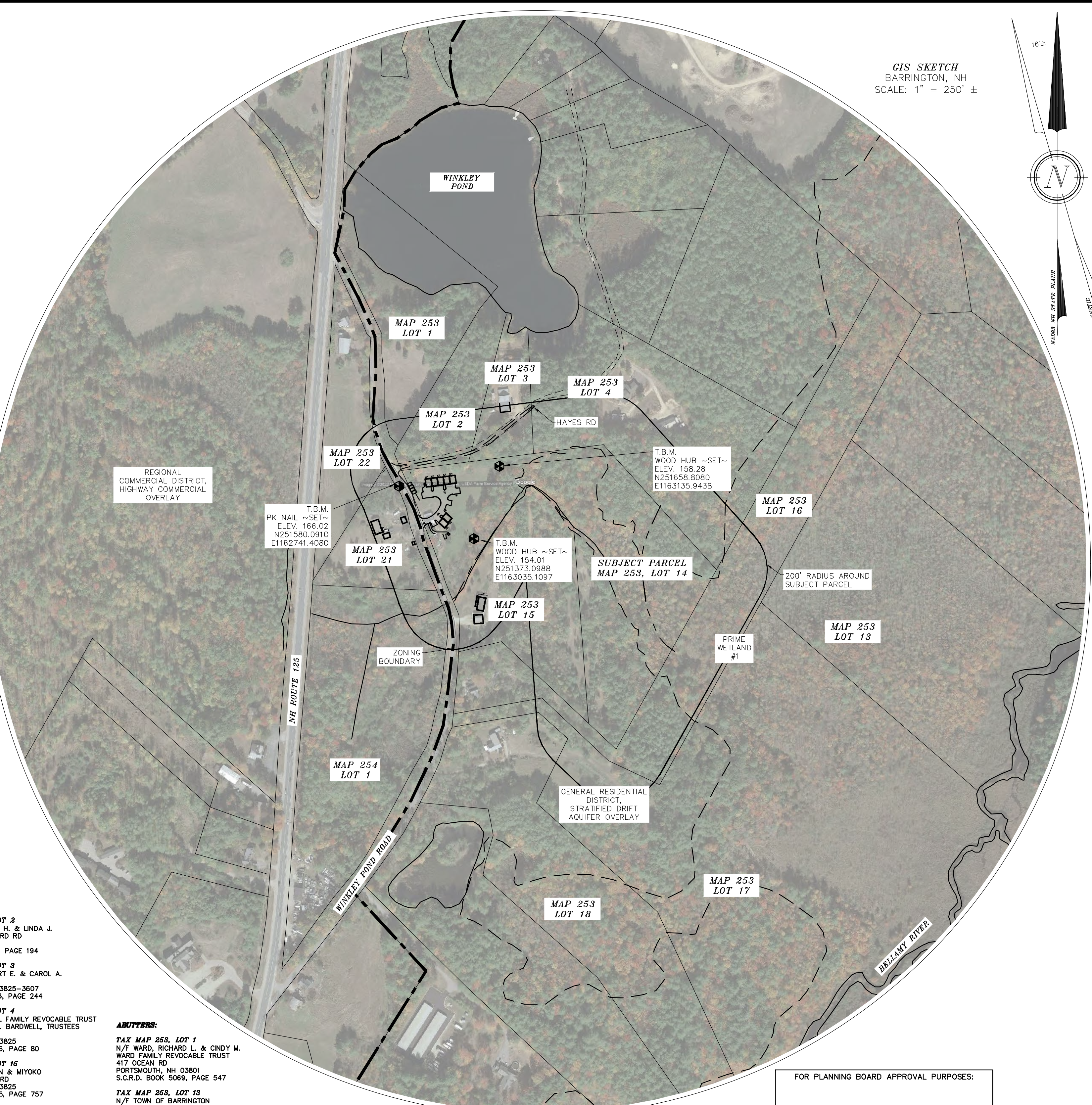
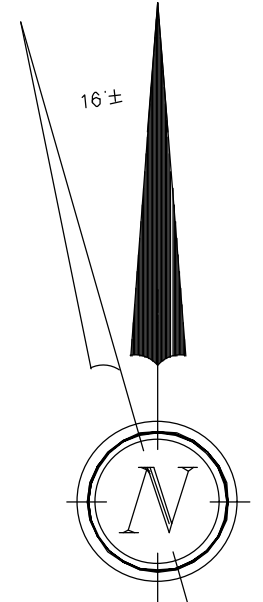
NOTICES:

- TAX MAP 253, LOT 2**
N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD RD
AYER, MA 01432
S.C.R.D. BOOK 952, PAGE 194
- TAX MAP 253, LOT 3**
N/F GAHAN, ROBERT E. & CAROL A.
23 HAYES DR
BARRINGTON, NH 03825-3607
S.C.R.D. BOOK 1246, PAGE 244
- TAX MAP 253, LOT 4**
N/F THE BARDWELL FAMILY REVOCABLE TRUST
BRIAN H. & LORI J. BARDWELL, TRUSTEES
40 HAYES DR
BARRINGTON, NH 03825
S.C.R.D. BOOK 4306, PAGE 80
- TAX MAP 253, LOT 15**
N/F WEEDEN, BRIAN & MIYOKO
63 WINKLEY POND RD
BARRINGTON, NH 03825
S.C.R.D. BOOK 2395, PAGE 757
- TAX MAP 253, LOT 16**
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND RD
BARRINGTON, NH 03825
S.C.R.D. BOOK 1968, PAGE 296
- TAX MAP 253, LOT 17**
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND RD
BARRINGTON, NH 03825
- TAX MAP 253, LOT 18**
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND RD
BARRINGTON, NH 03825
- TAX MAP 253, LOT 21**
N/F THE TOMMIE J. LEAHY AND DEBRA A. LEAHY
REVOCABLE LIVING TRUST
TOMMIE J. & DEBRA A. LEAHY, TRUSTEES
48 WINKLEY POND RD
BARRINGTON, NH 03825
S.C.R.D. BOOK 4696, PAGE 777
- TAX MAP 254, LOT 1**
N/F BIRCH HILL ESTATES REALTY TRUST
JOHN V. & KENNETH P. ANDERSON, TRUSTEES
PO BOX 1194
ALTON, NH 03809-1194
S.C.R.C. BOOK 1894, PAGE 681

NOTICES:

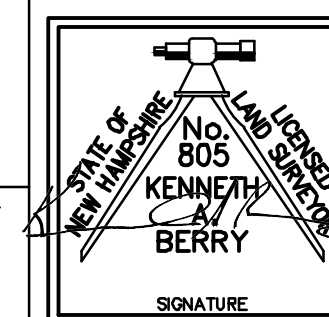
- TAX MAP 253, LOT 1**
N/F WARD, RICHARD L. & CINDY M.
WARD FAMILY REVOCABLE TRUST
417 OCEAN RD
PORTSMOUTH, NH 03801
S.C.R.D. BOOK 5069, PAGE 547
- TAX MAP 253, LOT 13**
N/F TOWN OF BARRINGTON
P.O. BOX 860
333 CALEF HIGHWAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 1968, PAGE 296
- TAX MAP 253, LOT 17**
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND RD
BARRINGTON, NH 03825
- TAX MAP 253, LOT 18**
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND RD
BARRINGTON, NH 03825
- TAX MAP 253, LOT 22**
N/F 14 WINKLEY POND ROAD, LLC
37 ROUTE 236
KITTEERY, ME 03904
S.C.R.C. BOOK 5092, PAGE 986

GIS SKETCH
BARRINGTON, NH
SCALE: 1" = 250' ±



SIGN ID NUMBER	SIGN SIZE (WIDTH x HEIGHT)	SIGN	TEXT DIMENSIONS	NO. OF SIGNS	BACKGROUND	LEGEND	BORDER	POST SIZE & QUANTITY
R1-1	30"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	1	RED	WHITE	WHITE	SQUARE (1)
R2-1	24"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	1	WHITE	GREEN	GREEN	U-CHANNEL (1)
R8-31	24"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	4	WHITE	BLACK	BLACK	U-CHANNEL (4)
	24"x12"			1	GREEN	WHITE	GREEN	U-CHANNEL (1)
	24"x12"			1	YELLOW	BLACK		U-CHANNEL (1)

FOR PLANNING BOARD APPROVAL PURPOSES:



BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : AS SHOWN
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

NEIGHBORHOOD PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

PLAN REFERENCES:

- 1.) "WARREN BERRY FARM"
BY: FREDERICK E. DREW ASSOCIATES
DATED: MAY 1974
S.C.R.D. PLAN #16-60
- 2.) "SUBDIVISION PLAN FOR ALBERT S. WEEDEN"
BY: FREDERICK E. DREW ASSOCIATES
DATED: AUGUST 19, 1983
S.C.R.D. PLAN #22-80
- 3.) "SOULIERE FARM SUBDIVISION PLAN" FOR DONALD E. SOULIERE
BY: WHITE MOUNTAIN SOIL CONSULTANTS
DATED: AUGUST 31, 1993
S.C.R.D. PLAN #42-89

N/F THE BARDWELL FAMILY REVOCABLE TRUST
BRIAN H. & LORI J. BARDWELL, TRUSTEES
40 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 4
S.C.R.D. BOOK 4306, PAGE 080

N/F GAHAN, ROBERT E. & CAROL A.
23 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 3
S.C.R.D. BOOK 1246, PAGE 244

N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD ROAD
AYER, MA 01432
TAX MAP 253, LOT 3
S.C.R.D. BOOK 952, PAGE 194

8'x 10' STONE BOUND ~FND~
(UP 4.2')
N251637.44
E1162766.22

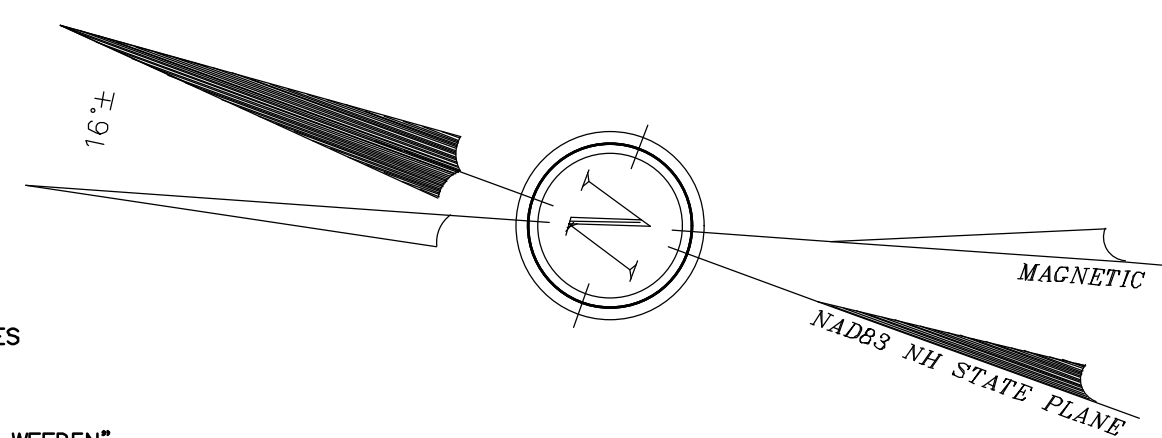
N/F LEAHY REVOCABLE LIVING TRUST
TOMMIE J. & DEBRA A. LEAHY TRUSTEES
48 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 21
S.C.R.D. BOOK 4696, PAGE 777

N/F BIRCH HILL ESTATE REALTY TRUST
JOHN V. & KENNETH P. ANDERSON, TRUSTEES
PO BOX 1194
ALTON, NH 03809
TAX MAP 254, LOT 1
S.C.R.D. BOOK 1894, PAGE 681

N/F WEEDEN, BRIAN & MIYOKO
63 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 15
S.C.R.D. BOOK 2395, PAGE 757

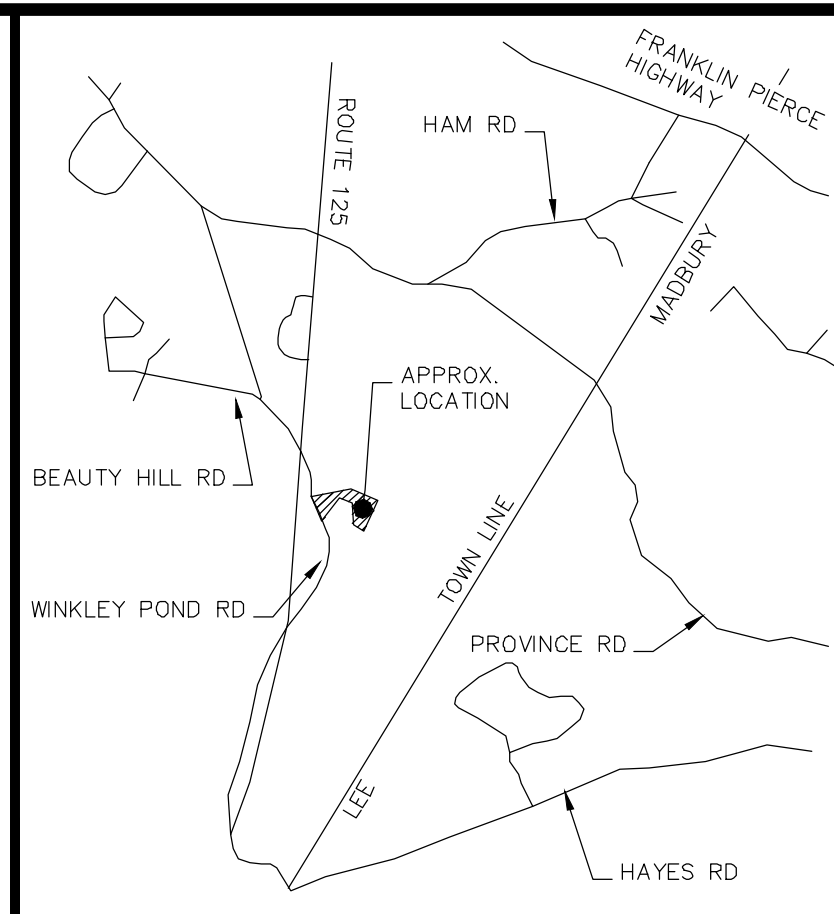
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 16
S.C.R.D. BOOK 2067, PAGE 472

N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 16
S.C.R.D. BOOK 2067, PAGE 472



LEGEND:

- 3/4" REBAR W/ID CAP ~TBS~
- DRILL HOLE ~FND~
- IRON PIPE ~FND~
- IRON BOUND ~FND~
- STONE BOUND ~FND~
- UTILITY POLE/GUY WIRE
- TREE W/BARBED WIRE
- STONE WALL
- SURVEY TIE LINE - NOT A BOUNDARY CENTERLINE STREAM/BOUNDARY LINE
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND
- TBS TO BE SET



NOTES:

- 1.) OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
- 2.) TAX MAP: TAX MAP 253, LOT 14
- 3.) LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
- 4.) S.C.R.D. BOOK 4976, PAGE 1023
- 5.) ZONING: GR - GENERAL RESIDENTIAL STRATIFIED DRIFT AQUIFER OVERLAY
FRONTAGE ~ 200.0'
MINIMUM LOT SIZE ~ 80,000 Sq. Ft.
FRONT SETBACK ~ 40.0'
REAR SETBACK ~ 30.0'
SIDE SETBACK ~ 30.0'
WETLAND BUFFER ~ 50.0' IF OVER 3,000 Sq. Ft.
PRIME WETLAND BUFFER ~ 100.0'
MAX. BUILDING HEIGHT ~ 35.0'
MAX. LOT COVERAGE ~ 40%
- 6.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN OCTOBER OF 2022, WITH AN ERROR OF CLOSURE OF BETTER THAN 1 PART IN 10,000.
- 7.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES OF TAX MAP 253, LOT 14.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

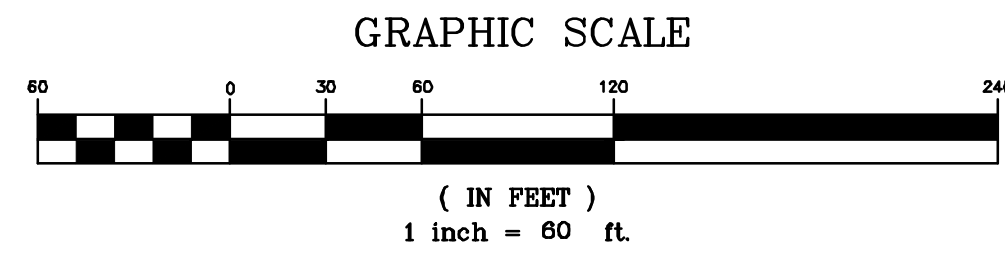
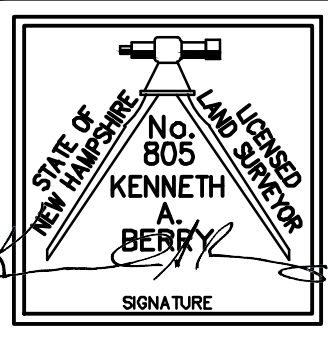
BOUNDARY PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 60 FT.
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.



KENNETH A. BERRY L.L.S. 805 DATE

PLAN REFERENCES:

- 1.) "WARREN BERRY FARM"
BY: FREDERICK E. DREW ASSOCIATES
DATED: MAY 1974
S.C.R.D. PLAN #16-60
- 2.) "SUBDIVISION PLAN FOR ALBERT S. WEEDEN"
BY: FREDERICK E. DREW ASSOCIATES
DATED: AUGUST 19, 1983
S.C.R.D. PLAN #22-80
- 3.) "SOULIERE FARM SUBDIVISION PLAN" FOR DONALD E. SOULIERE
BY: WHITE MOUNTAIN SOIL CONSULTANTS
DATED: AUGUST 31, 1993
S.C.R.D. PLAN #42-89

N/F THE BARDWELL FAMILY REVOCABLE TRUST
BRIAN H. & LORI J. BARDWELL, TRUSTEES
40 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 4
S.C.R.D. BOOK 4306, PAGE 080
ZONING: GENERAL RESIDENTIAL

N/F GAHAN, ROBERT E. & CAROL A.
23 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 3
S.C.R.D. BOOK 1246, PAGE 244
ZONING: GENERAL RESIDENTIAL

N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD ROAD
AYER, MA 01432
TAX MAP 253, LOT 3
S.C.R.D. BOOK 952, PAGE 194
ZONING: GENERAL RESIDENTIAL

AREA #1
124,023 Sq.Ft.
FREE OF HYDRIC A SOILS
88,435 Sq.Ft.
CONTIGUOUS UPLAND SOILS

AREA #2
108,150 Sq.Ft.
FREE OF HYDRIC A SOILS
92,689 Sq.Ft.
CONTIGUOUS UPLAND SOILS

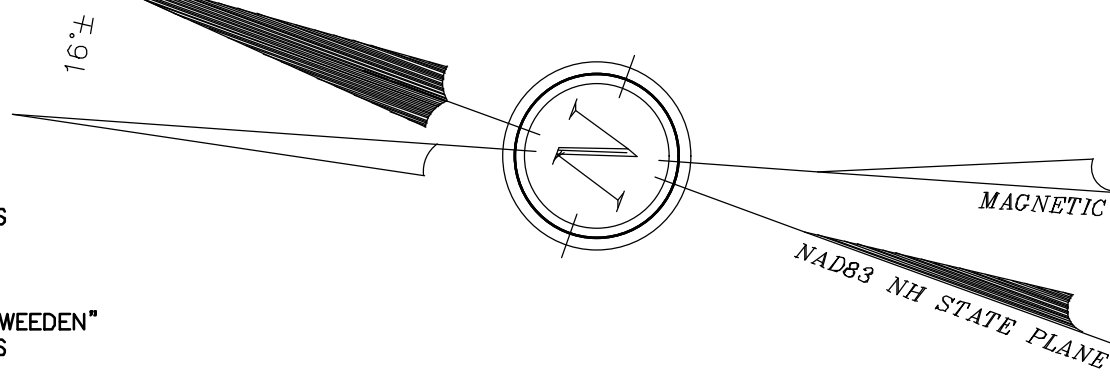
AREA #3
158,610 Sq.Ft.
FREE OF HYDRIC A SOILS
149,788 Sq.Ft.
CONTIGUOUS UPLAND SOILS

N/F WEEDEN, BRIAN & MIYOKO
63 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 15
S.C.R.D. BOOK 2355, PAGE 757
ZONING: GENERAL RESIDENTIAL

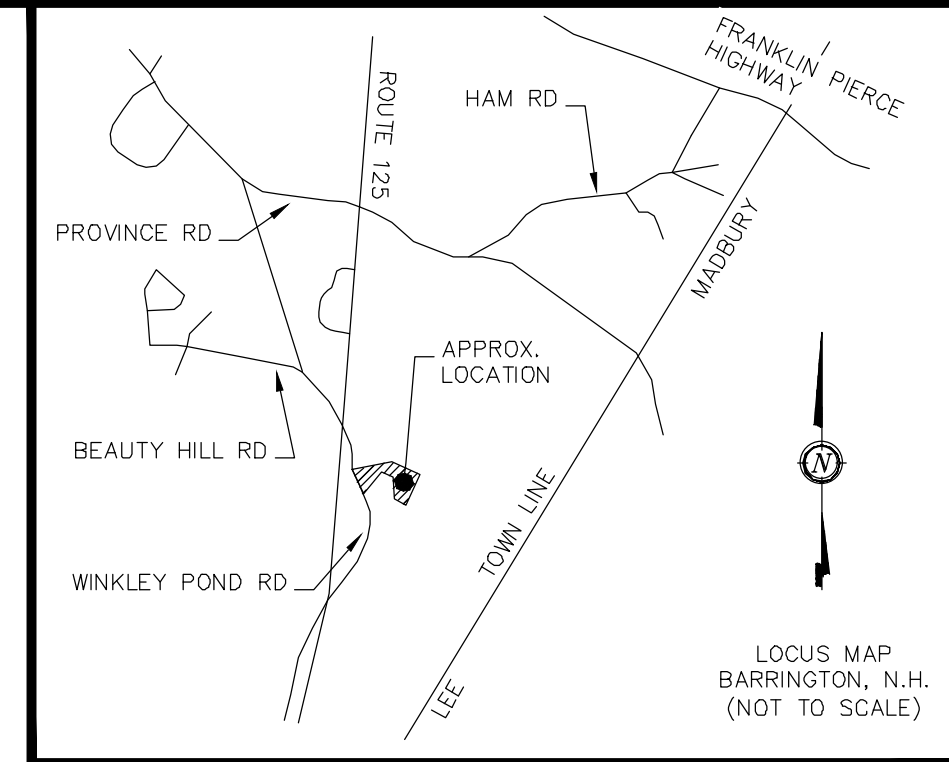
N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 16
S.C.R.D. BOOK 2067, PAGE 472
ZONING: GENERAL RESIDENTIAL

N/F BIRCH HILL ESTATE REALTY TRUST
JOHN V. & KENNETH P. ANDERSON, TRUSTEES
PO BOX 1194
ALTON, NH 03809
TAX MAP 254, LOT 1
S.C.R.D. BOOK 1894, PAGE 681
ZONING: REGIONAL COMMERCIAL DISTRICT,
HIGHWAY COMMERCIAL OVERLAY

N/F LEAHY REVOCABLE LIVING TRUST
TOMMIE J. & DEBRA A. LEAHY TRUSTEES
48 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 21
S.C.R.D. BOOK 4696, PAGE 777
ZONING: REGIONAL COMMERCIAL DISTRICT,
HIGHWAY COMMERCIAL OVERLAY



- LEGEND:**
- 3/4" REBAR W/ID CAP ~TBS~
 - DRILL HOLE ~FND~
 - IRON PIPE ~FND~
 - IRON BOUND ~FND~
 - STONE BOUND ~FND~
 - UTILITY POLE/GUY WIRE
 - TEST PIT, OBSERVED BY JOHN P. HAYES
 - TEMPORARY BENCH MARK
 - POORLY DRAINED WETLAND LINE
 - VERY POORLY DRAINED WETLAND LINE
 - BUILDING SETBACK LINE
 - 50' WETLAND BUFFER & 100' PRIME WETLAND BUFFER
 - STONE WALL
 - FEMA FLOOD ZONE "A"
 - NRCS SOIL LINE
 - SURVEY TIE LINE - NOT A BOUNDARY
 - S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
 - TYP. TYPICAL
 - FND FOUND
 - TBS TO BE SET
 - T.B.R. TO BE REMOVED
 - POORLY DRAINED JURISDICTIONAL WETLAND HATCH
 - VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH



- NOTES:**
- 1.) OWNER: HAMBONE LLC
242 CENTRAL AVE
DOVER, NH 03820
 - 2.) TAX MAP: TAX MAP 253, LOT 14
 - 3.) LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
330,912 Sq.Ft., 7.60 Ac., TOTAL UPLAND
 - 4.) S.C.R.D. BOOK 4976, PAGE 1023
 - 5.) ZONING: GR - GENERAL RESIDENTIAL W/ STRATIFIED DRIFT AQUIFER OVERLAY
FRONTAGE ~ 200.0'
MINIMUM LOT SIZE ~ 80,000 Sq. Ft.
FRONT SETBACK ~ 40.0'
REAR SETBACK ~ 30.0'
SIDE SETBACK ~ 30.0'
WETLAND BUFFER ~ 50.0' IF OVER 3,000 Sq. Ft.
PRIME WETLAND BUFFER ~ 100.0'
MAX. BUILDING HEIGHT ~ 35.0'
MAX. LOT COVERAGE ~ 40%

- 6.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA, COMMUNITY# 330178, MAP# 33017C0305E, DATED: SEPTEMBER 30, 2015.
- 7.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING CARLSON BRX7 SURVEY GRADE GPS RECEIVERS.
- 8.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN OCTOBER OF 2022, WITH AN ERROR OF CLOSURE OF BETTER THAN 1 PART IN 10,000.
- 9.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS OF TAX MAP 253, LOT 14 AS OF THE DATED OF THE SURVEY.
- 10.) THE PARCEL IS SERVICED BY PRIVATE WATER AND SEWER.
- 11.) NO CEMETERIES WERE OBSERVED ON THE PARCEL.

SOILS DATA:

wdc ~ WINDSOR LOAMY SAND, 8 TO 15% SLOPES
wfb ~ WINDSOR LOAMY FINE SAND, CLAY SUBSOIL VARIANT, 0 TO 8% SLOPES
hac ~ HINCKLEY LOAMY SAND, 8 TO 15% SLOPES
swal ~ SWANTON FINE SANDY LOAM, 0 TO 3% SLOPES
sb ~ SAUGATUCK LOAMY SAND

POORLY DRAINED WETLAND DELINEATION NOTE

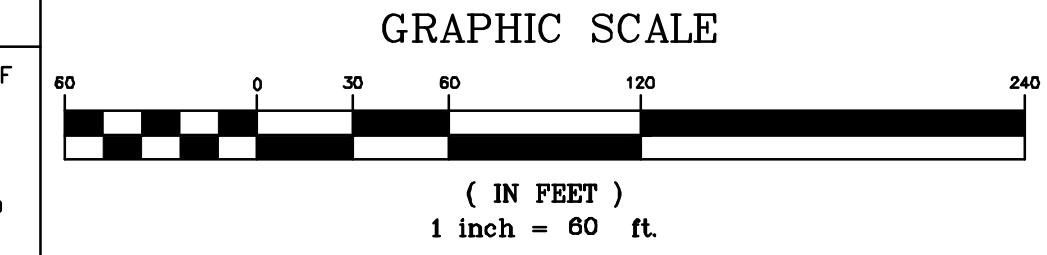
WETLANDS WERE DELINEATED BY DEIDRA BENJAMIN, IN JUNE 2022 AND AUGUST 2023 UTILIZING THE FOLLOWING STANDARDS:

1. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
2. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.0, UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
3. NATIONAL WETLAND PLANT LIST (CURRENT VERSION).

VERY POORLY DRAINED WETLAND DELINEATION NOTE:

WETLANDS WERE DELINEATED BY JOHN P. HAYES, CWS, IN THE SUMMER OF 2022 USING THE FOLLOWING CRITERIA:

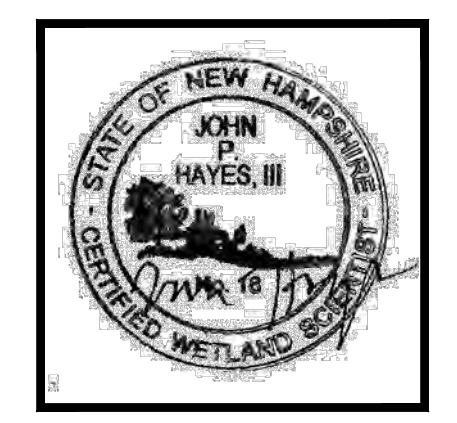
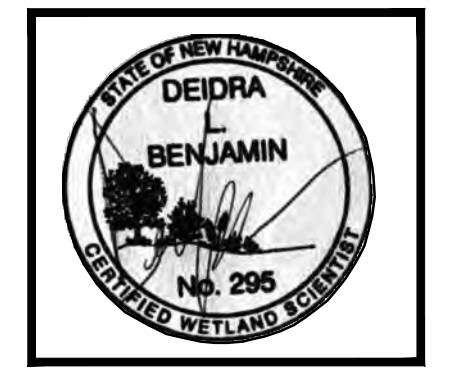
1. USACE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, 2012, VICKSBURG, MS.
2. USACE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, ENVIRONMENTAL LABORATORY, 1987, VICKSBURG, MS.
3. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2018, FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, L.M. VASILAS, G.W. HURT, AND J.F. BERKOWITZ (EDS.), USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
4. NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, 2019, LOWELL, MA.
5. U.S. ARMY CORPS OF ENGINEERS 2019, NATIONAL WETLAND PLANT LIST, VERSION 3.3. [HTTP://WETLAND-PLANTS.USACE.ARMY.MIL/](http://wetland-plants.usace.army.mil/)



FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

DEIDRA BENJAMIN, CWS #295



JOHN P. HAYES III, CSS, CWS

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

EXISTING CONDITIONS PLAN & DEMOLITION PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 60 FT.
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 805
L.L.S. 805
SIGNATURE

TEST PIT DATA:

TEST PITS WERE OBSERVED BY JOHN P. HAYES III, CSS, CWS
DATE: FEBRUARY 24, 2022

TEST PIT #1
0-10 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
10-13 7.5YR 6/1 GRAY, LOAMY SAND, GRANULAR, FRIABLE
13-18 5YR 3/3 DARK REDDISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
18-36 10 YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
36-72 10YR 6/2 LIGHT BROWNISH GRAY, FINE SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
E.S.H.W.T. @ 36"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 50"
TERMINATED @ 72"
REFUSAL @ NONE
PERC RATE: 3 MIN/INCH

TEST PIT #2
0-14 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-28 10YR 5/8 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
28-36 10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
36-75 10YR 6/2 LIGHT BROWNISH GRAY, VERY FINE SAND WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
E.S.H.W.T. @ 36"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ N/A
TERMINATED @ 75"
REFUSAL @ NONE
PERC RATE: 4 MIN/INCH

TEST PIT #3
0-14 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-22 10YR 5/8 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
22-28 10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
28-31 7.5YR 6/1 GRAY, LOAMY SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
31-36 5YR 3/3 DARK REDDISH BROWN, LOAMY SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
36-58 5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
58-75 10YR 6/2 LIGHT BROWNISH GRAY, FINE SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
E.S.H.W.T. @ 28"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 60"
TERMINATED @ 75"
REFUSAL @ NONE
PERC RATE: 3 MIN/INCH

TEST PIT #4
0-14 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-20 10YR 5/8 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
20-24 7.5YR 6/1 GRAY, LOAMY SAND, GRANULAR, FRIABLE
24-28 5YR 3/3 DARK REDDISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
28-32 10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
32-72 5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
E.S.H.W.T. @ 32"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 45"
TERMINATED @ 72"
REFUSAL @ NONE
PERC RATE: 3 MIN/INCH

TEST PIT #5
0-14 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-22 10YR 5/8 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
22-34 10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
34-48 5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
48-74 10YR 6/2 LIGHT BROWNISH GRAY, SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
E.S.H.W.T. @ 34"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ N/A
TERMINATED @ 48"
REFUSAL @ NONE
PERC RATE: 4 MIN/INCH

TEST PIT #6
0-11 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
11-32 2.5Y 5/3 LIGHT OLIVE BROWN, LOAMY SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
32-45 5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
45-62 10YR 6/2 LIGHT BROWNISH GRAY, SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
E.S.H.W.T. @ 11"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 25"
TERMINATED @ 72"
REFUSAL @ NONE
PERC RATE: 20 MIN/INCH

TEST PIT #7
0-11 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
11-32 2.5Y 5/3 LIGHT OLIVE BROWN, LOAMY SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
32-45 5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
45-62 10YR 6/2 LIGHT BROWNISH GRAY, SAND WITH REDD. FEATURES PRESENT, GRANULAR, FRIABLE
E.S.H.W.T. @ 11"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 25"
TERMINATED @ 72"
REFUSAL @ NONE
PERC RATE: 20 MIN/INCH

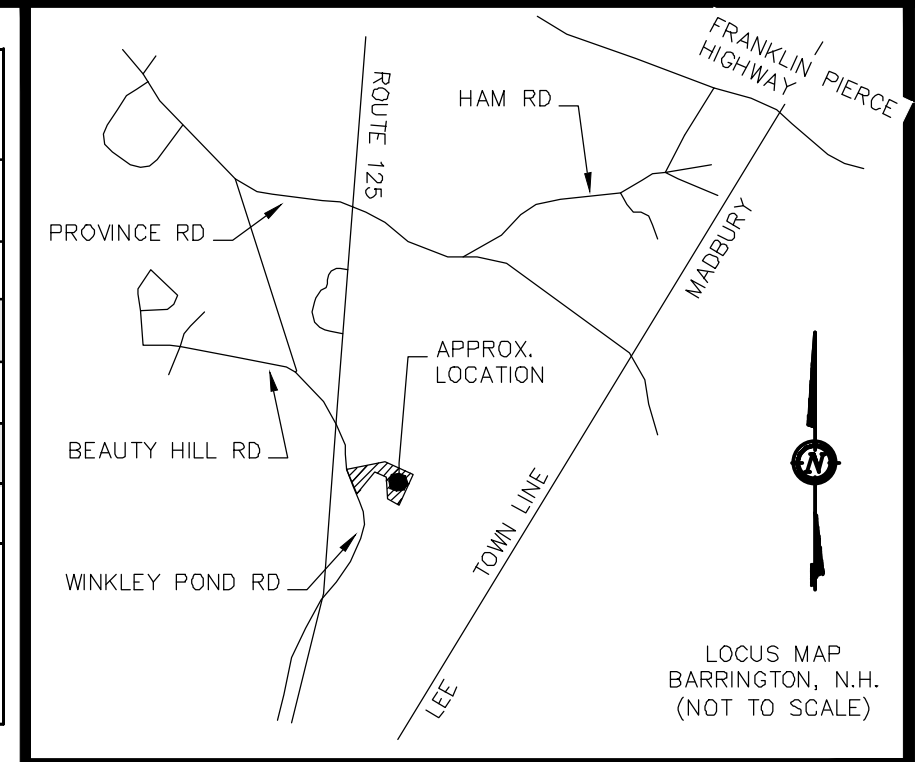
TEST PIT #8
0-14 10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-20 10YR 5/8 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
20-26 10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
26-75 10YR 6/2 LIGHT BROWNISH GRAY, SAND WITH REDD. FEATURES PRESENT, MASSIVE, FRIABLE
E.S.H.W.T. @ 26"
RESTRICTIVE LAYER @ N/A
GROUND WATER @ 60"
TERMINATED @ 75"
REFUSAL @ NONE
PERC RATE: 4 MIN/INCH

SITE SPECIFIC SOILS LEGEND

SYMBOL	SLOPES	SOIL TAXONOMIC NAME	HYDROLOGIC SOIL GROUP
#15/VP	A	SCARBORO	D
#34/P	A	WAREHAM	C
#313	A,B,C,D	DEERFIELD	B
#400	B,C,D	UDORTENTS (dbabd)	B
#915	B	DEERFIELD VARIANT	C

SLOPE: A = 0-3% B = 3-8% C = 8-15% D = 15-25% E = 25-50% F = 50%+

DENOMINATOR: /VPD = VERY POORLY DRAINED /PD = POORLY DRAINED /SWPD = SOMEWHAT POORLY DRAINED /MWD = MODERATELY WELL DRAINED



- NOTES:**
- OWNER: HAMBONE LLC
242 CENTRAL AVE
DOVER, NH 03820
 - TAX MAP: TAX MAP 253, LOT 14
 - LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
330,912 Sq.Ft., 7.60 Ac., TOTAL UPLAND
 - S.C.R.D. BOOK 4976, PAGE 1023
 - THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING SOILS CONDITIONS OF TAX MAP 253, LOT 14 AS OF THE DATE OF THE SURVEY.

POORLY DRAINED WETLAND DELINEATION NOTE

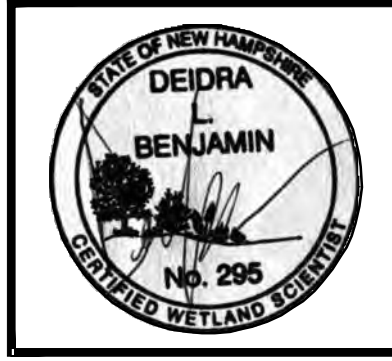
WETLANDS WERE DELINEATED BY DEIDRA BENJAMIN, IN JUNE 2022 AND AUGUST 2023 UTILIZING THE FOLLOWING STANDARDS:

- REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
- FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 6.0, UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
- NATIONAL WETLAND PLANT LIST (CURRENT VERSION).

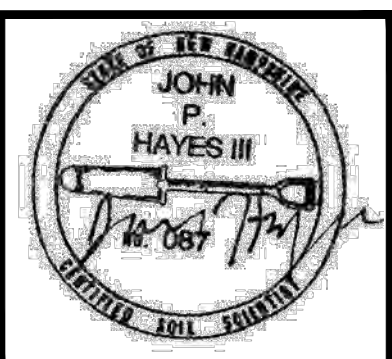
VERY POORLY DRAINED WETLAND DELINEATION NOTE:

WETLANDS WERE DELINEATED BY JOHN P. HAYES, CWS, IN THE SUMMER OF 2022 USING THE FOLLOWING CRITERIA:

- USACE, REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, U.S. ARMY CORPS OF ENGINEERS AND DEVELOPMENT CENTER, 2012, WOODBRIDGE, MS.
- USACE, CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, ENVIRONMENTAL LABORATORY, 1987, WOODBRIDGE, MS.
- UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2016, FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 6.0, L.M. VASILEAS, G.W. HURT, AND J.F. BERKOWITZ (EDS.), USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
- NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, 2019, LOWELL, MA.
- U.S. ARMY CORPS OF ENGINEERS 2019, NATIONAL WETLAND PLANT LIST, VERSION 3.3. <http://wetland.plants.usace.army.mil/>



DEIDRA BENJAMIN, CWS #295

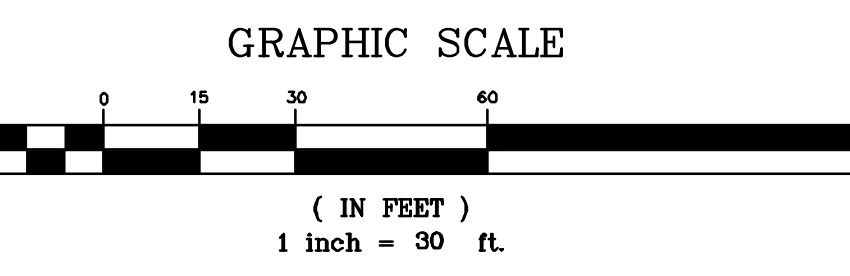


JOHN P. HAYES, III CWS #87



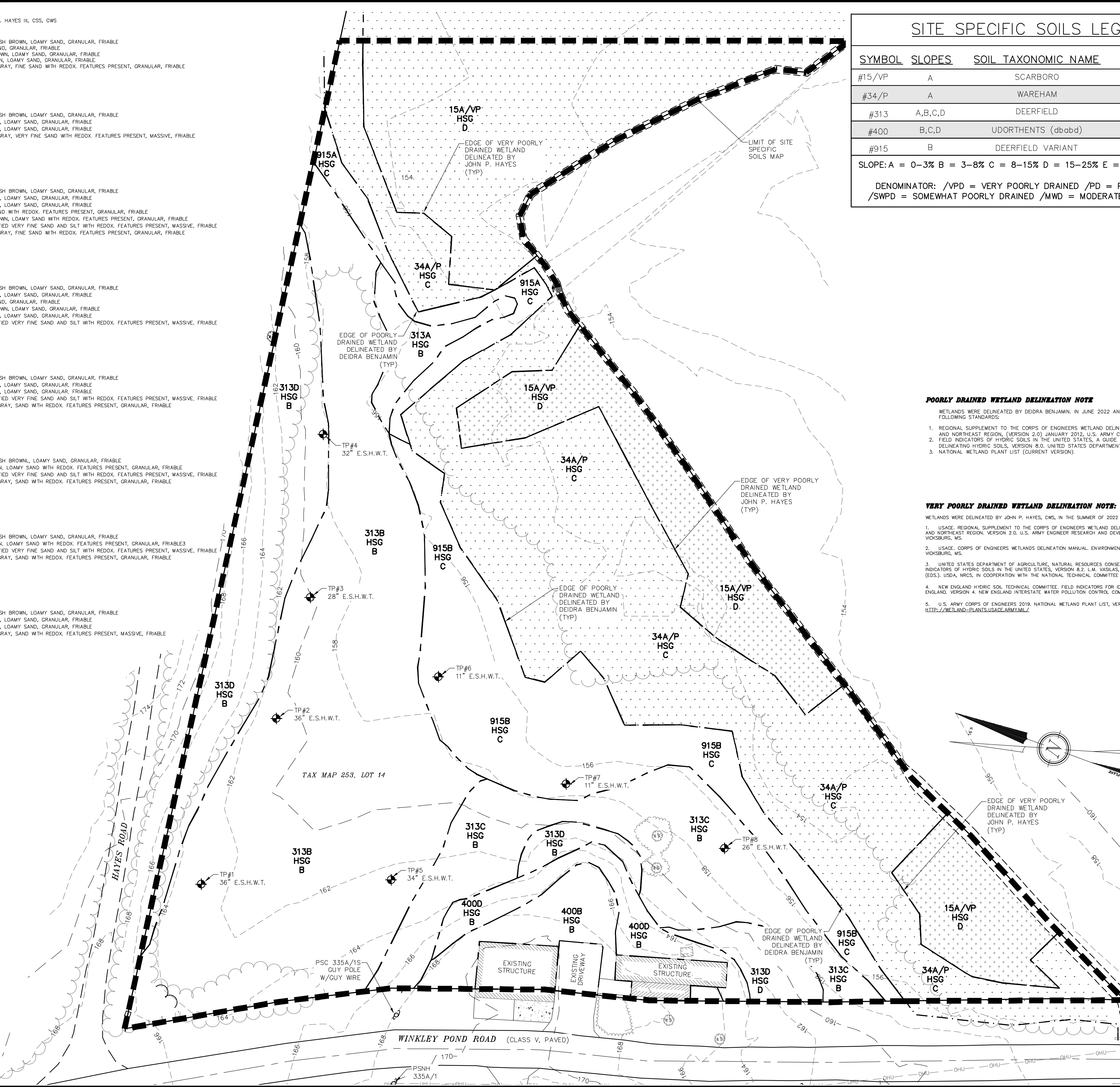
JOHN P. HAYES III, CWS #18

- LEGEND:**
- 8"x10" STONE BOUND ~FND~
 - UTILITY POLE
 - TEST PIT
 - EXISTING CONTOUR MINOR
 - EXISTING CONTOUR MAJOR
 - SOIL LINE
 - LIMIT OF SOIL SURVEY
 - POORLY DRAINED JURISDICTIONAL WETLAND
 - VERY POORLY DRAINED JURISDICTIONAL WETLAND
 - SOIL SERIES
- 313**
S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
TYP. TYPICAL
FND. FOUND
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH**
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH**



FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.



REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

SITE SPECIFIC SOILS MAP
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 30 FT.
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163

SIGNATURE

UNIT DENSITY CALCULATION: ARTICLE 4, SECTION 2.1(1-3)

TEST #1
TOTAL AREA = 586,793 Sq.Ft.
6 +2-BEDROOM UNITS & 1 1-BEDROOM UNIT PERMITTED

TEST #2
TOTAL AREA FREE OF HYDRIC SOILS = 390,783 Sq.Ft.
6 +2-BEDROOM UNITS & 1 1-BEDROOM UNIT PERMITTED

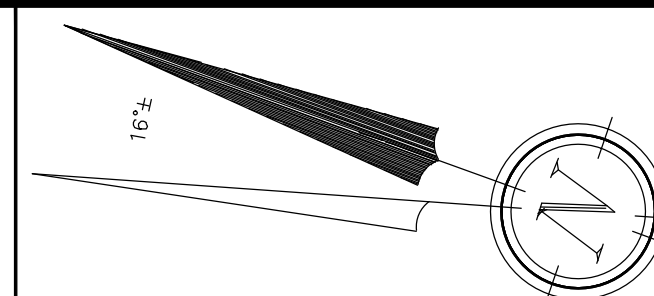
TEST #3
AREA #1 CONTAINS 88,435 Sq.Ft. OF CONTIGUOUS UPLAND
2 +2-BEDROOM UNITS & 1 1-BEDROOM UNIT PERMITTED

AREA #2 CONTAINS 92,689 Sq.Ft. OF CONTIGUOUS UPLAND
2 +2-BEDROOM UNITS ARE PERMITTED

AREA #3 CONTAINS 149,788 Sq.Ft. OF CONTIGUOUS UPLAND
4 +2-BEDROOM UNITS AREA PERMITTED

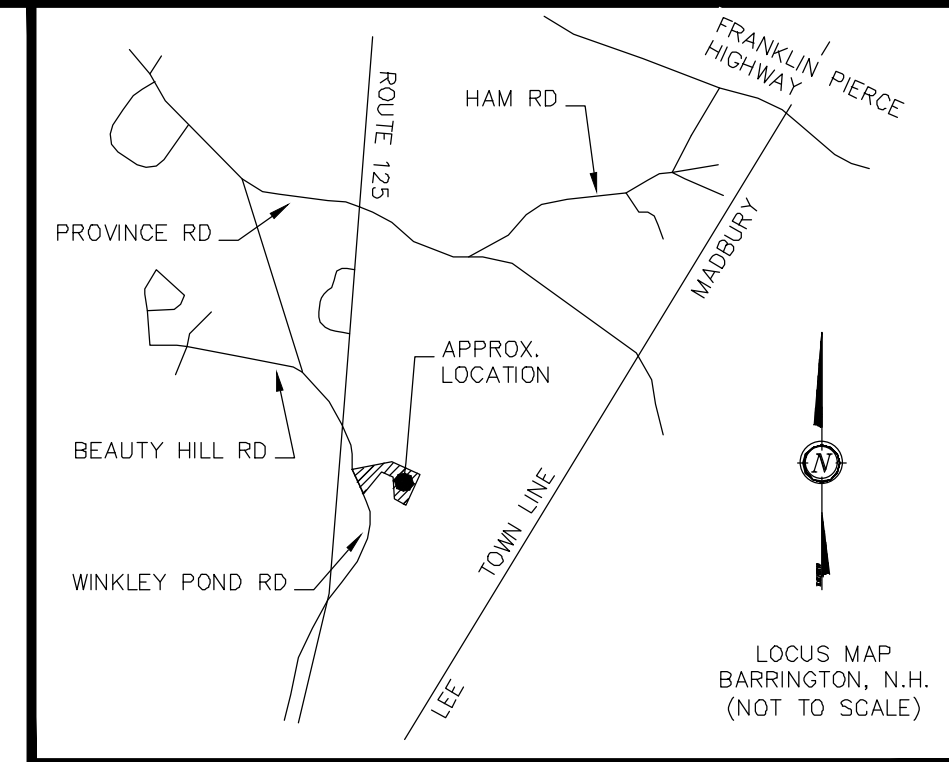
TOTAL PERMITTED DENSITY:
6 +2-BEDROOM UNITS & 1 1-BEDROOM UNITS ARE PERMITTED ON THE PARCEL

UNITS 1 - 4, 6 & 7 ARE PROPOSED TO BE 2-BEDROOM UNITS AND UNIT #5 IS PROPOSED TO BE A 1-BEDROOM UNIT



NOTES:

- OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
- TAX MAP: TAX MAP 253, LOT 14
- LOT AREA: 586,793 Sq. Ft. 13.47 Ac.
- S.C.R.D. BOOK 4976, PAGE 1023
- ZONING: GR - GENERAL RESIDENTIAL
W/ STRATIFIED DRIFT AQUIFER OVERLAY
FRONTAGE ~ 200.0'
MINIMUM LOT SIZE ~ 80,000 Sq. Ft.
FRONT SETBACK ~ 40.0'
REAR SETBACK ~ 30.0'
SIDE SETBACK ~ 30.0'
WETLAND BUFFER ~ 50.0' IF OVER
3,000 Sq. Ft.
PRIME WETLAND BUFFER ~ 100.0'
MAX. BUILDING HEIGHT ~ 35.0'
MAX. LOT COVERAGE ~ 40%
- THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED SITE PLAN OVERVIEW OF TAX MAP 253, LOT 14.
- THE EXISTING USE OF THE SUBJECT PARCEL IS SINGLE-FAMILY RESIDENTIAL. THE PROPOSED USE OF THE SUBJECT PARCEL IS MULTI-FAMILY RESIDENTIAL.



SITE PLAN NOTES:

- I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, PART OF THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# - 33017B, MAP# - 33017C0305E, DATED: SEPTEMBER 30, 2015.
- PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN OCTOBER OF 2022 WITH AN ERROR OF CLOSURE GREATER THAN 1 IN 10,000 UNDER NO SNOW CONDITIONS.
- AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON A REPRODUCIBLE MYLAR MEDIUM AND IN A DIGITAL DXF FORMAT ON DISK TO THE TOWN OF BARRINGTON PLANNING OFFICE UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E.
- TOPOGRAPHIC SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN OCTOBER OF 2022 UNDER NO SNOW CONDITIONS AND IS SHOWN AT 2 FOOT INTERVALS.
- DATUM: PROJECT DATUM IS BASED ON GPS COORDINATES ESTABLISHED WITH A TOPCON HIPER SR RECEIVER IN JUNE 2017 AND REPRESENTED IN NEW HAMPSHIRE STATE PLANE COORDINATES NAD 1983 AND VERTICALLY BY NAVD 1988.
- UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
- ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND WITH THE EXCEPTION OF POSSIBLY ONE DROP-POLES REQUIRED BY EVERSOURCE.
- THE SUBJECT PARCELS ARE SERVED BY ON SITE WATER AND EFFLUENT DISPOSAL.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE CODES.
- ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAD SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE, AND RATES FOR FERTILIZERS, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.
- THE LIMITS OF CONSTRUCTION DISTURBANCE SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO THE COMMENCEMENT OF SITE WORK.
- A LETTER OF CREDIT FOR THE COST OF RE-VEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS. COORDINATE WITH TOWN OF BARRINGTON, LAND USE OFFICE.
- A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR, AND THE TOWN ENGINEER SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.
- BUILDING ADDRESSES SHALL BE ASSIGNED BY THE BUILDING INSPECTOR AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.
- THE FOLLOWING FEDERAL AND STATE PERMITS HAVE BEEN ISSUED FOR THE SUBJECT PROPERTY:
EPA NOTICE OF INTENT (NOI): PENDING
NHDES SUBSURFACE DISPOSAL PERMIT: eCA2023111319
NH DIVISION OF HISTORICAL RESOURCES: R&C 15436
- NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER OR AFTER A STORM EVENT OF GREAT THAN 0.25". THIS SITE PLAN PROPOSES 53,500 Sq. Ft. (1.23 Ac.) OF DISTURBANCE.
- CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233)
- ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONSTRUCTION SHALL ALSO CONFORM TO THE TOWN OF BARRINGTON POLICIES AND PRACTICES, AND TOWN OF BARRINGTON SITE PLAN REVIEW REGULATIONS.
- WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- THERE IS CLEAR SIGHT DISTANCE IN BOTH THE NORTH AND SOUTH DIRECTIONS AT THE ENTRANCE OF BRIDLE PATH WAY ONTO WINKLEY POND ROAD.
- EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (603) 436-7708. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.
- CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH FAIRPOINT COMMUNICATIONS AT (603) 427-5525, AS APPLICABLE.
- CONTRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH ATLANTIC BROADBAND.
- IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER, EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAIN FREEZING.

N/F THE BARDWELL FAMILY REVOCABLE TRUST
BRIAN H. & LORI J. BARDWELL, TRUSTEES
40 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 3
S.C.R.D. BOOK 4306, PAGE 080

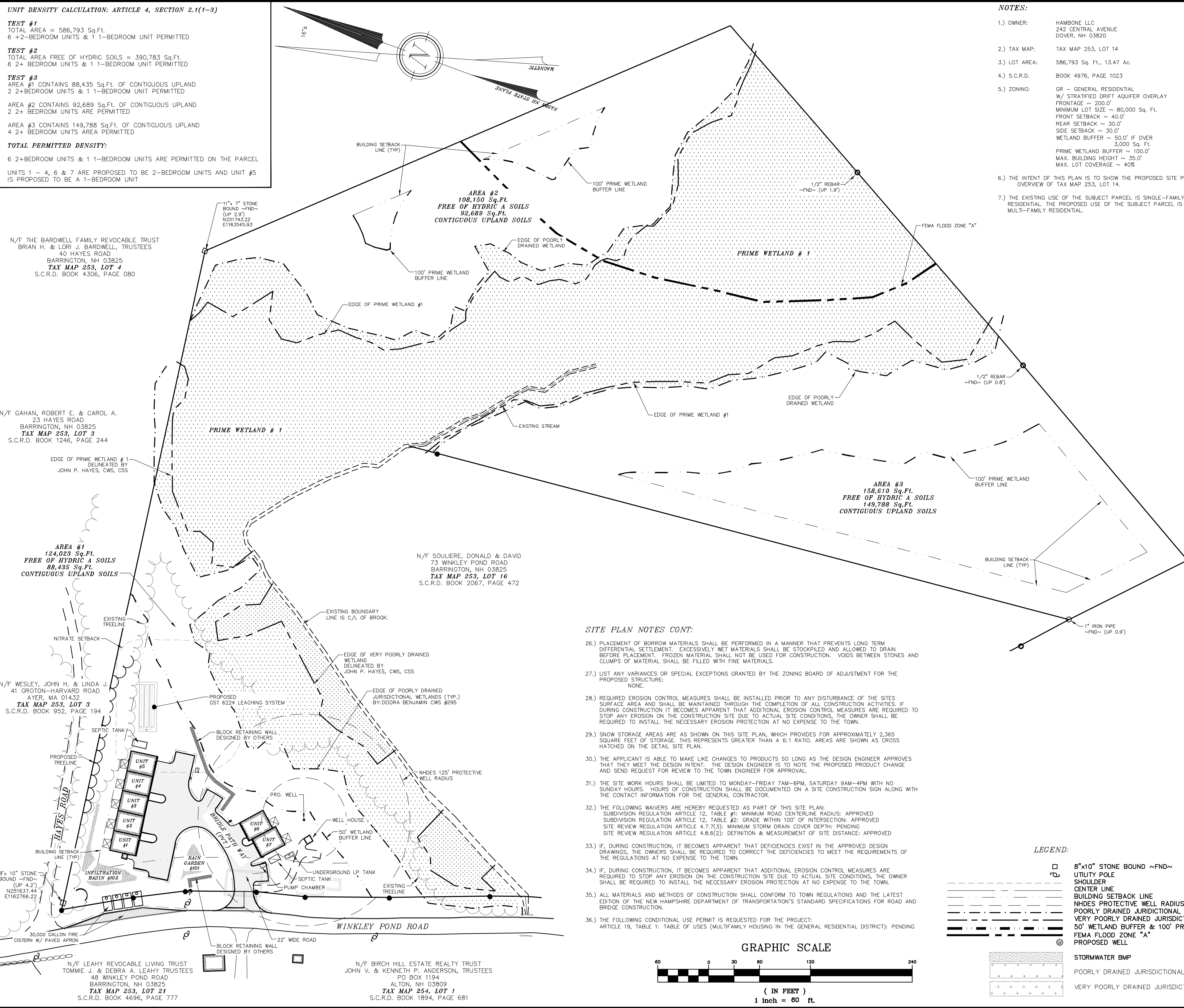
N/F GAHAN, ROBERT E. & CAROL A.
23 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 4
S.C.R.D. BOOK 1246, PAGE 244

N/F SOULIERE, DONALD & DAVID
73 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 16
S.C.R.D. BOOK 2067, PAGE 472

N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD ROAD
AYER, MA 01432
TAX MAP 253, LOT 3
S.C.R.D. BOOK 952, PAGE 194

N/F LEAHY REVOCABLE LIVING TRUST
TOMMIE J. & DEBRA A. LEAHY TRUSTEES
48 WINKLEY POND ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 21
S.C.R.D. BOOK 4696, PAGE 777

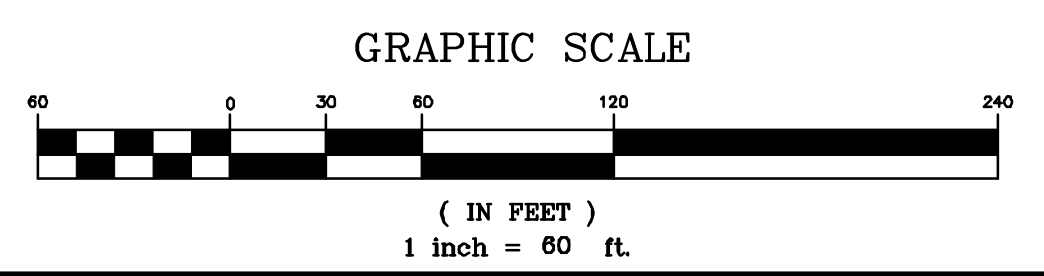
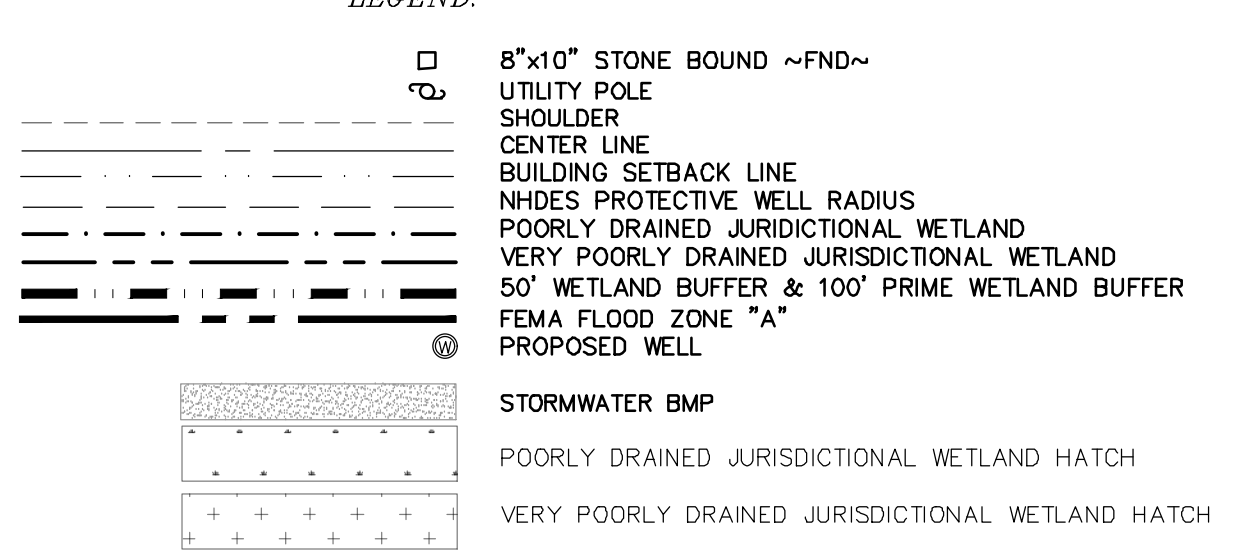
N/F BIRCH HILL ESTATE REALTY TRUST
JOHN V. & DEBRA P. ANDERSON, TRUSTEES
PO BOX 1194
ALTON, NH 03809
TAX MAP 254, LOT 1
S.C.R.D. BOOK 1894, PAGE 681



SITE PLAN NOTES CONT:

- PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.
- LIST ANY VARIANCES OR SPECIAL EXCEPTIONS GRANTED BY THE ZONING BOARD OF ADJUSTMENT FOR THE PROPOSED STRUCTURE.
- REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITES SURFACE AREA AND SHALL BE MAINTAINED THROUGHOUT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
- SNOW STORAGE AREAS ARE AS SHOWN ON THIS SITE PLAN, WHICH PROVIDES FOR APPROXIMATELY 2,365 SQUARE FEET OF STORAGE. THIS REPRESENTS GREATER THAN A 6:1 RATIO. AREAS ARE SHOWN AS CROSS HATCHED ON THE DETAIL SITE PLAN.
- THE APPLICANT IS ABLE TO MAKE LIKE CHANGES TO PRODUCTS SO LONG AS THE DESIGN ENGINEER APPROVES THAT THEY MEET THE DESIGN INTENT. THE DESIGN ENGINEER IS TO NOTE THE PROPOSED PRODUCT CHANGE AND SEND REQUEST FOR REVIEW TO THE TOWN ENGINEER FOR APPROVAL.
- THE SITE WORK HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7AM-6PM, SATURDAY 9AM-4PM WITH NO SUNDAY HOURS. HOURS OF CONSTRUCTION SHALL BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR.
- THE FOLLOWING WAIVERS ARE HEREBY REQUESTED AS PART OF THIS SITE PLAN:
SUBDIVISION REGULATION ARTICLE 12, TABLE #1: MINIMUM ROAD CENTERLINE RADIUS; APPROVED
SUBDIVISION REGULATION ARTICLE 12, TABLE #2: GRADE WITHIN 100' OF INTERSECTION; APPROVED
SITE REVIEW REGULATION ARTICLE 4.7.7(3): MINIMUM STORM DRAIN COVER DEPTH; PENDING
SITE REVIEW REGULATION ARTICLE 4.8.6(2): DEFINITION & MEASUREMENT OF SITE DISTANCE; APPROVED
- IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNERS SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
- IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FOLLOWING CONDITIONAL USE PERMIT IS REQUESTED FOR THE PROJECT:
ARTICLE 19, TABLE 1: TABLE OF USES (MULTIFAMILY HOUSING IN THE GENERAL RESIDENTIAL DISTRICT); PENDING

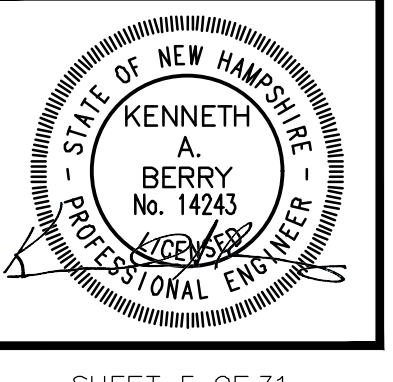
LEGEND:



REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

OVERVIEW SITE PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, NH
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 60 FT.
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163

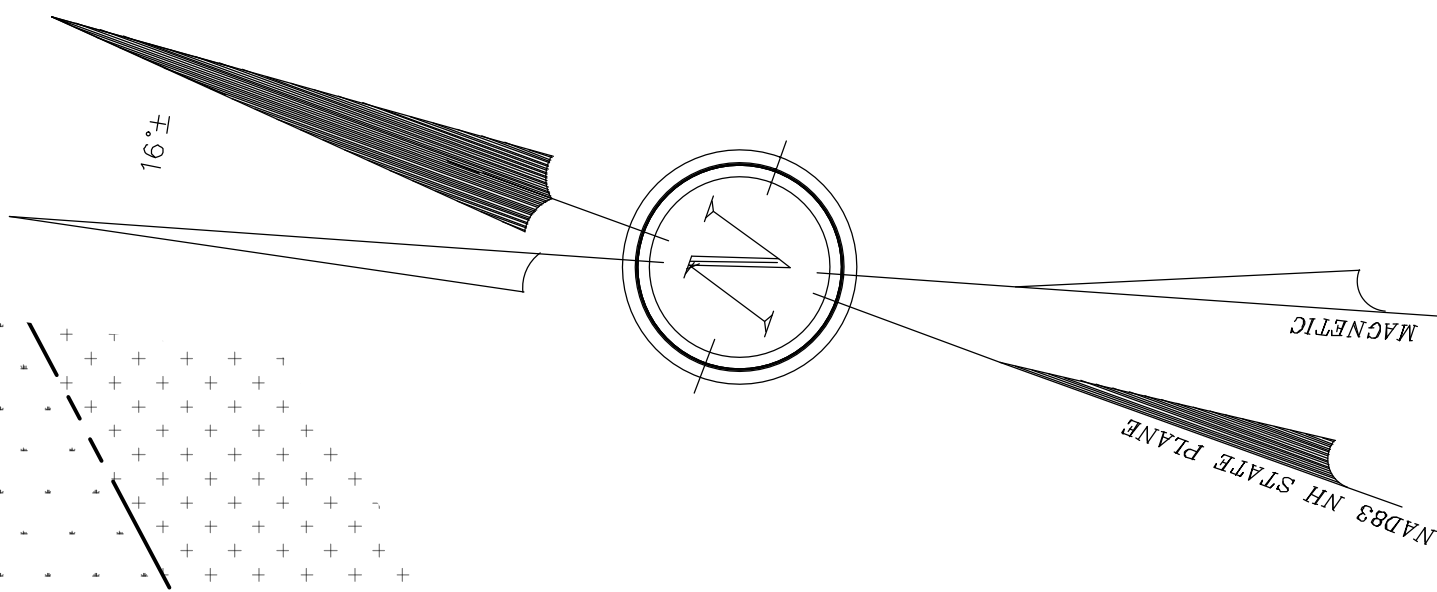
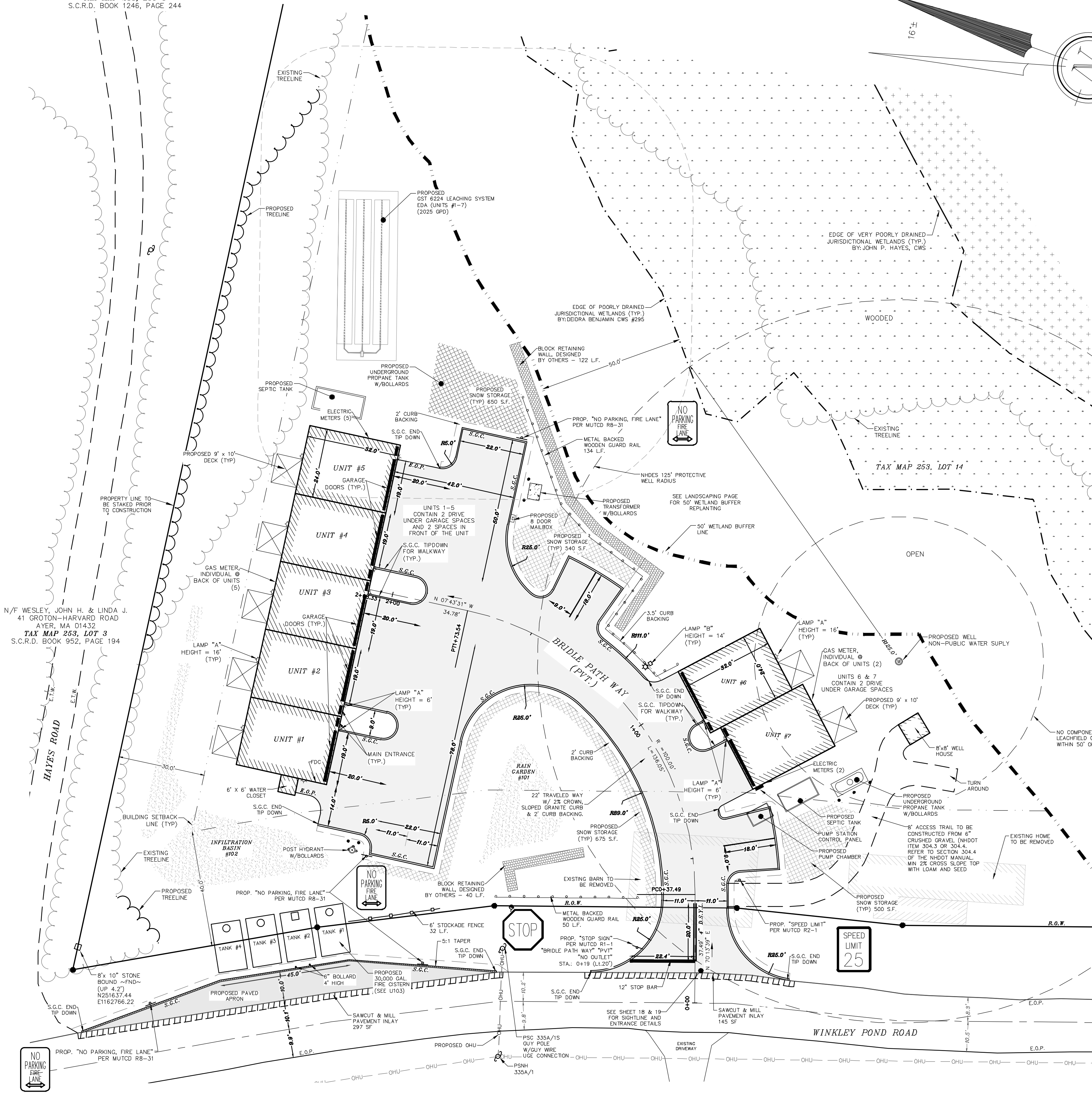


FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

N/F GAHAN, ROBERT E. & CAROL A.
23 HAYES ROAD
BARRINGTON, NH 03825
TAX MAP 253, LOT 3
S.C.R.D. BOOK 1246, PAGE 244

N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD ROAD
AYER, MA 01432
TAX MAP 253, LOT 3
S.C.R.D. BOOK 952, PAGE 194



LOT COVERAGE:
EXISTING BUILDING: 2,186 Sq.Ft., 0.37%
EXISTING IMPERVIOUS (GRAVEL & PAVEMENT): 800 Sq.Ft., 0.14%
TOTAL EXISTING COVERAGE: 2,986 Sq.Ft., 0.51%
PROPOSED BUILDING: 6,106 Sq.Ft., 1.04%
PROPOSED IMPERVIOUS (GRAVEL, CURB & PAVEMENT): 11,325 Sq.Ft., 1.93%
TOTAL PROPOSED COVERAGE: 17,431 Sq.Ft., 2.97%

- NOTES:**
- OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
 - TAX MAP: TAX MAP 253, LOT 14
 - LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
 - S.C.R.D. BOOK 4976, PAGE 1023
 - ZONING: GR - GENERAL RESIDENTIAL
W/ STRATIFIED DRIFT AQUIFER OVERLAY
FRONTAGE ~ 200.0'
MINIMUM LOT SIZE ~ 80,000 Sq. Ft.
FRONT SETBACK ~ 40.0'
REAR SETBACK ~ 30.0'
SIDE SETBACK ~ 30.0'
WETLAND BUFFER ~ 50.0' IF OVER
3,000 Sq. Ft.
PRIME WETLAND BUFFER ~ 100.0'
MAX. BUILDING HEIGHT ~ 35.0'
MAX. LOT COVERAGE ~ 40%
 - THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED SITE PLAN DETAIL, TAX MAP 253, LOT 14.
 - THE EXISTING USE OF THE SUBJECT PARCEL IS SINGLE-FAMILY RESIDENTIAL. THE PROPOSED USE OF THE SUBJECT PARCEL IS MULTI-FAMILY RESIDENTIAL.
 - SEE OVERVIEW SITE PLAN FOR NOTES.

WAIVER REQUESTS:
SUBDIVISION REGULATION ARTICLE 12, TABLE #1: MINIMUM ROAD CENTERLINE RADIUS: APPROVED
SUBDIVISION REGULATION ARTICLE 12, TABLE #2: GRADE WITHIN 100' OF INTERSECTION: APPROVED
SITE REVIEW REGULATION ARTICLE 4.7.7(3): MINIMUM STORM DRAIN COVER DEPTH: PENDING
SITE REVIEW REGULATION ARTICLE 4.8.6(2): DEFINITION & MEASUREMENT OF SIGHT DISTANCE: APPROVED

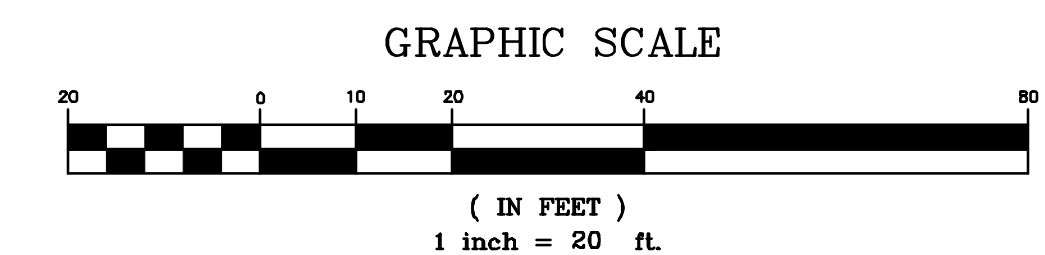
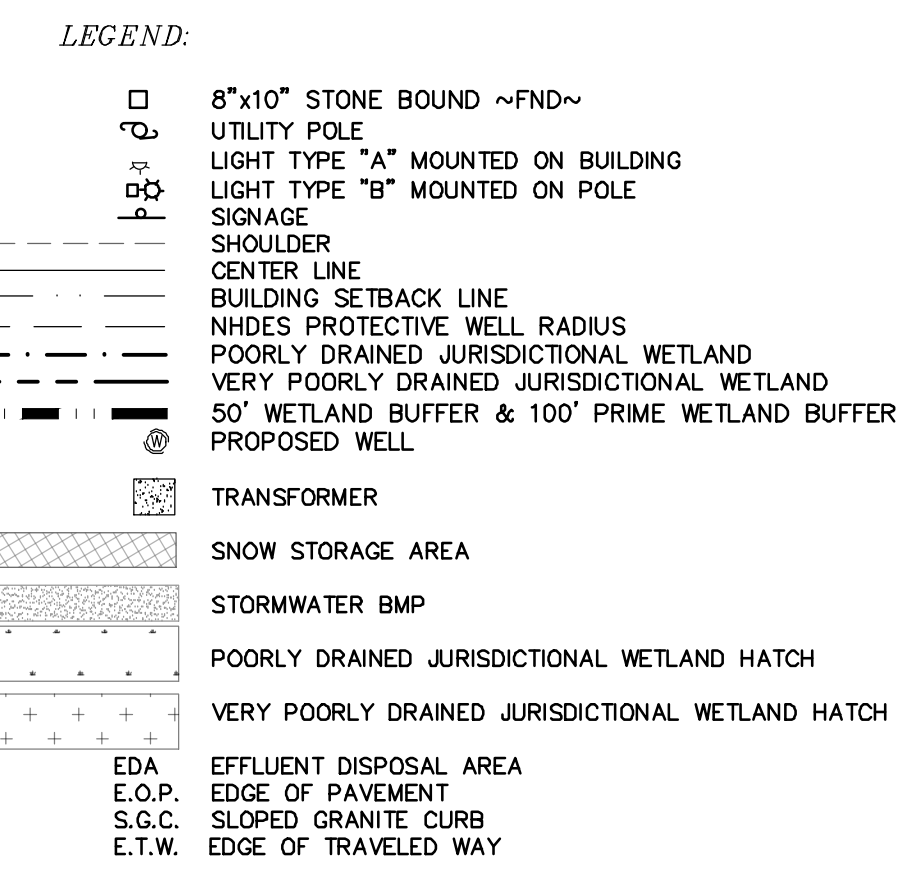
CONDITIONAL USE PERMIT:
ARTICLE 19, TABLE 1: TABLE OF USES
(MULTIFAMILY HOUSING IN THE GENERAL RESIDENTIAL DISTRICT): PENDING

SNOW STORAGE:
STORAGE CALCULATION (6:1 RATIO USED)
... PAVED AREA = 10,389 Sq.Ft. / 6 = 1,732 Sq. Ft.
... >2,365 Sq. Ft. PROVIDED
... THIS CALCULATION BASED ON THE TOTAL SITE.
... SNOW SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS ONCE IDENTIFIED AREAS ARE FULL.

PARKING REQUIREMENTS:

- RESIDENTIAL:
 - TOWNHOUSE 2 SPACES PER UNIT:
 - 7 UNITS x 2 SPACES = 14 SPACES
 - UNITS 1-5, 4 SPACES (2 GARAGE, 2 FRONT)
 - UNITS 6 & 7, 2 SPACES (2 GARAGE)
 - 4 DEMARCATED PARKING SPACES
 - 1 ADDITIONAL SPACE ALONG SIDE UNIT #1

TOTAL REQUIRED = 14 SPACES
TOTAL PROPOSED = 29 SPACES



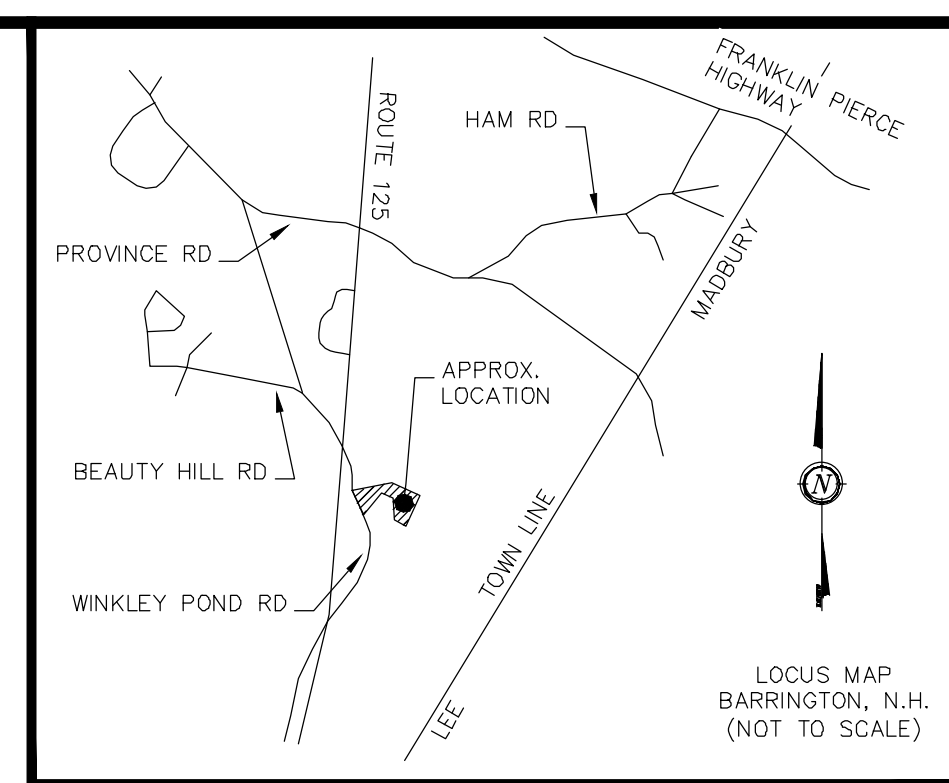
UNIT BEDROOM COUNTS:

- UNIT #1 ~ 2 BEDROOMS
- UNIT #2 ~ 2 BEDROOMS
- UNIT #3 ~ 2 BEDROOMS
- UNIT #4 ~ 2 BEDROOMS
- UNIT #5 ~ 1 BEDROOM
- UNIT #6 ~ 2 BEDROOMS
- UNIT #7 ~ 2 BEDROOMS

TOTAL ~ 13 BEDROOMS

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.



REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

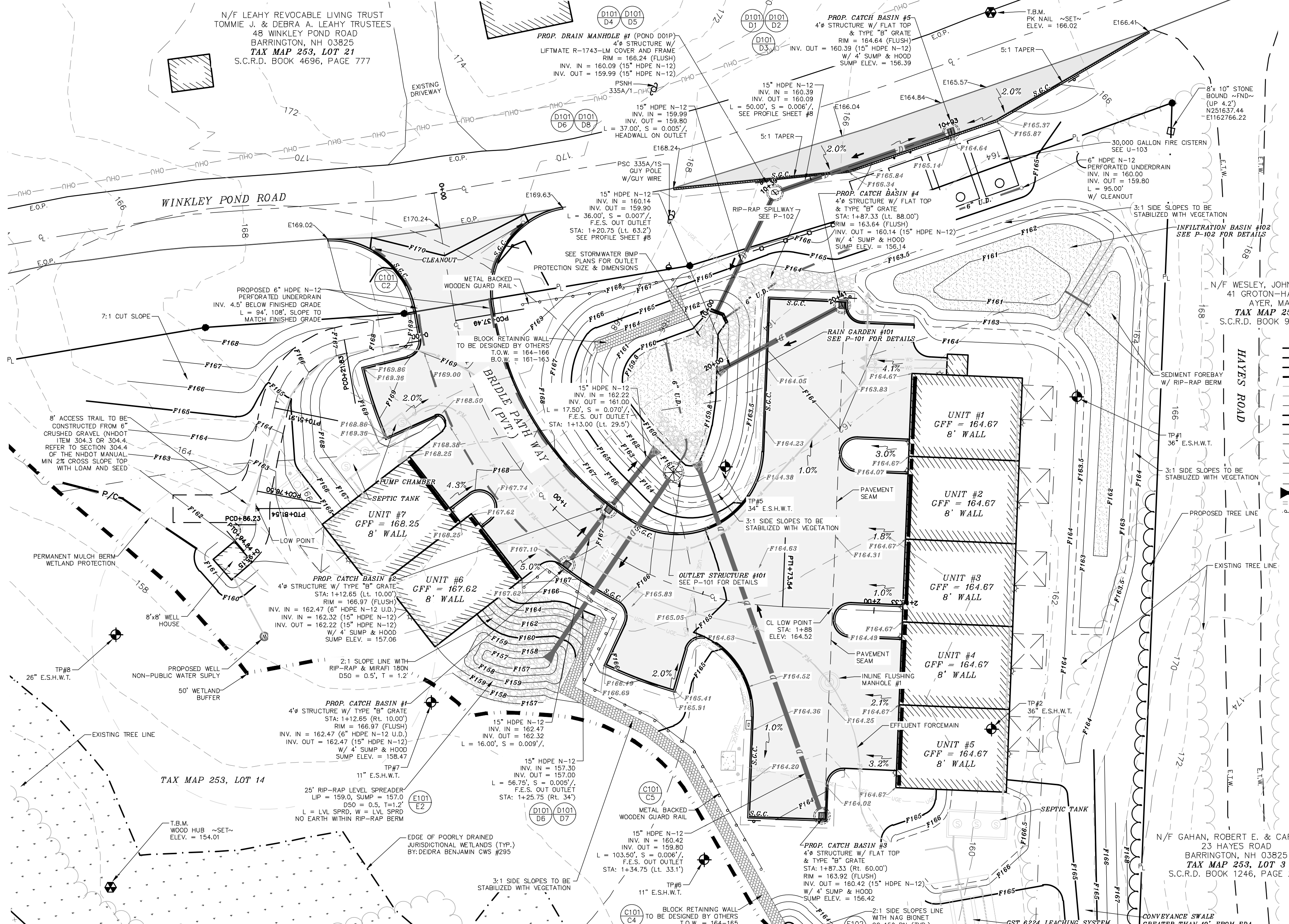
DETAIL SITE PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163

SHEET 6 OF 31

STANDARD CONSTRUCTION NOTES:

- SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX).
- TWO ON SITE BENCHMARKS ARE PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.
- EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.
- SEE UTILITY PLANS FOR DETAILS ON THE PROPOSED SEWER, WATER, AND UNDERGROUND ELECTRIC LINES SHOWN.
- EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE.
- CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS BOUNDS, AND OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS (IF APPLICABLE), ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. DISTURBANCE OUTSIDE AREAS SHOWN TO BE APPROVED BY DESIGN ENGINEER.
- THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R).
- ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH {} SHALL BE THERMOPLASTIC.
- ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.
- NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER OR AFTER A STORM EVENT OF GREAT THAN 0.25". THIS SITE PLAN PROPOSES 53,500 Sq. Ft. (1.23 Ac.) OF DISTURBANCE.
- UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.
- ALL CATCH BASINS ARE TO HAVE BOOTS INSTALLED ON ALL INLETS AND OUTLETS. CATCH BASINS ARE TO HAVE NH00T TYPE "B" GRATES AND DRAIN MANHOLES ARE TO HAVE NH STANDARD COVERS.
- ALL DRAINAGE PIPE IS TO BE HDPE N-12. INDIVIDUAL PIPE SIZES ARE SPECIFIED. RECYCLED PIPE IS APPROVED FOR PROJECT SITE. RECYCLED HDPE PIPE "GREEN PIPE" IS ACCEPTABLE FOR THIS PROJECT SITE.
- ALL CATCH BASINS SHALL BE PRE-CAST 4-20 LADING AND SHALL BE EQUIPPED WITH DEEP SUMPS. RIMS ARE TO BE NH00T TYPE "B" STYLE AND SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE INSTRUCTED DURING CONSTRUCTION BY BARRINGTON DPW. RIMS ABOVE FINISH GRADE WILL NOT BE ACCEPTED. ALL RIMS, GRATES, AND COVERS ARE TO BE U.S.A MADE. HOODS ARE TO BE INSTALLED IMMEDIATELY AFTER BASIN CONSTRUCTION. GRATES ARE TO BE INSTALLED BINDER FLUSH PRIOR TO BASE PAVE. UPON PROJECT COMPLETION FRAMES AND GRATES ARE TO BE CUT AND RIM RAISED TO FINAL PAVEMENT SURFACE. THIS IS TO ENSURE STORMWATER ENTERS THE SYSTEM AS DESIGNED DURING THE INTERIM CONSTRUCTION PERIOD.



NOTES:

- OWNER & APPLICANT: HAMBONE LLC
242 CENTRAL AVE
DOVER, NH 03820
- LOT OF RECORD: TAX MAP 253, LOT 14
- THE INTENT OF THIS PLAN IS TO PROVIDE GRADING AND ENGINEERING DETAILS OF BRIDLE PATH WAY. EXISTING CONTOURS ARE PROVIDED AT 2' INTERVALS AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.
- SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX). BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

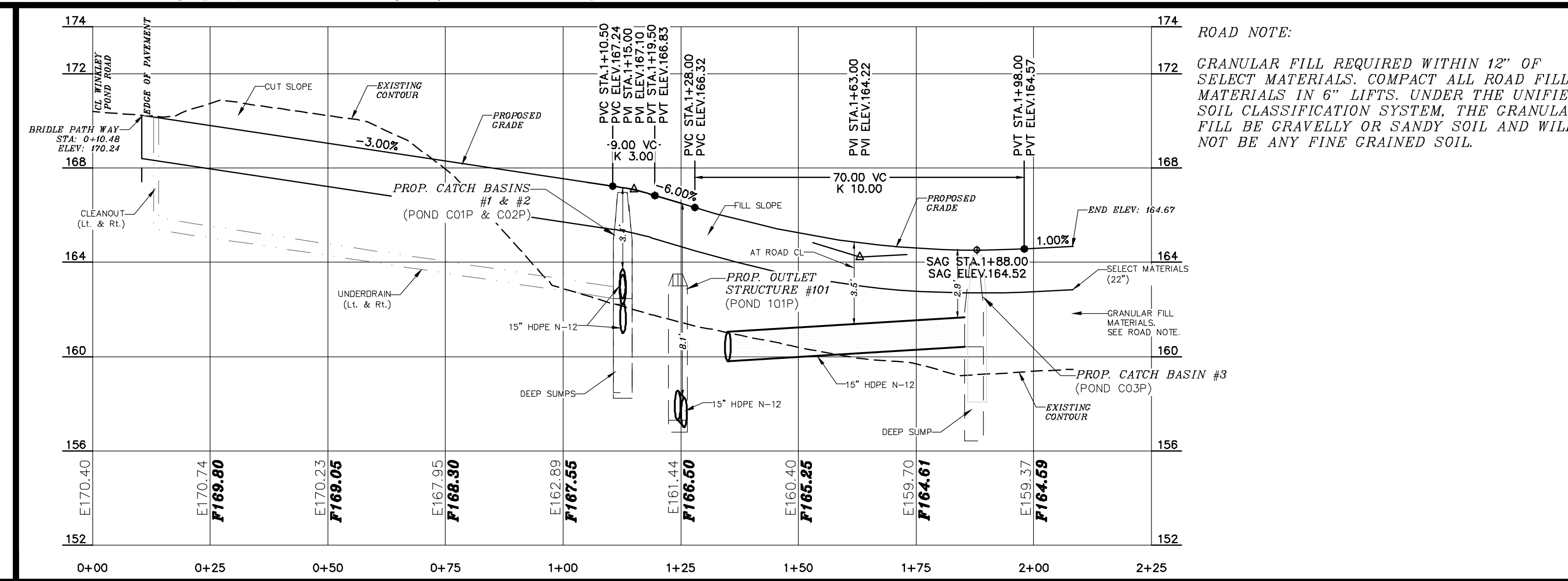
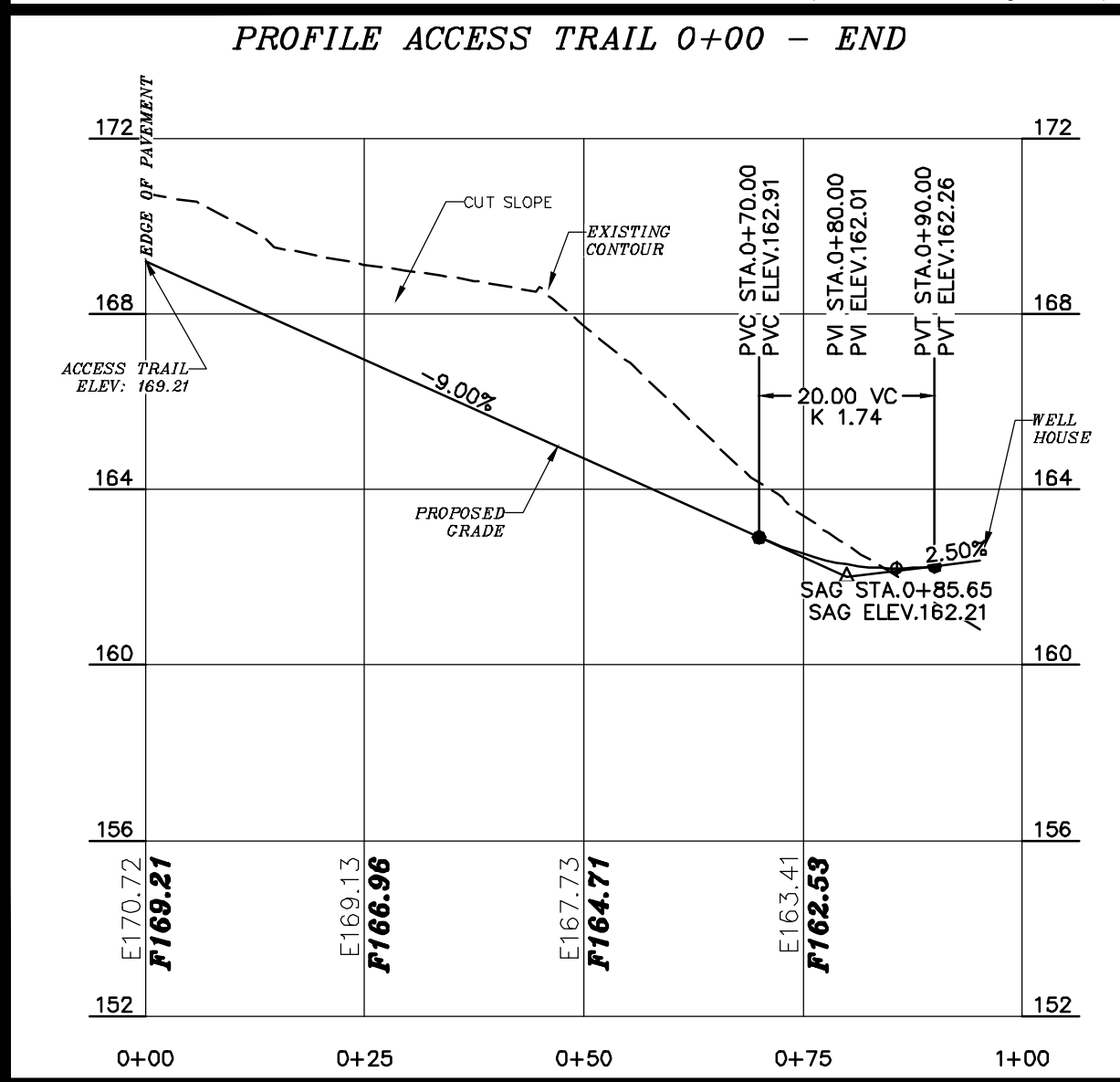
LEGEND:

- STONE BOUND ~FND~
- UTILITY POLE/GUY WIRE
- TEST PIT
- TEMPORARY BENCHMARK (T.B.M.)
- DETAIL SHEET / DETAIL
- STREAM
- POORLY DRAINED JURISDICTIONAL WETLAND
- VERY POORLY DRAINED JURISDICTIONAL WETLAND
- WETLAND BUFFER
- CONTOUR MINOR, EXISTING
- CONTOUR MAJOR, EXISTING
- CONTOUR MAJOR, PROPOSED
- SURVEY TIE LINE
- BUILDING SETBACK LINE
- WELL RADIUS
- TREELINE
- ROAD CENTERLINE
- SHOULDER
- PAVEMENT SEAM
- DRAIN CULVERT W/ FLARED END SECTION (F.E.S.)
- UNDERDRAIN
- GUARD RAIL
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- FLOW ARROW
- RIP RAP
- STORMWATER BEST MANAGEMENT PRACTICE (BMP)
- DRAIN MANHOLE W/ STRUCTURE
- CATCH BASIN W/ STRUCTURE
- STORMWATER BMP OUTLET STRUCTURE
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

PLAN & PROFILE BRIDLE PATH WAY 0+00 TO END
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14



ROAD NOTE:

GRANULAR FILL REQUIRED WITHIN 12" OF SELECT MATERIALS. COMPACT ALL ROAD FILL MATERIALS IN 6" LIFTS. UNDER THE UNIFIED SOIL CLASSIFICATION SYSTEM, THE GRANULAR FILL BE GRAVELLY OR SANDY SOIL AND WILL NOT BE ANY FINE GRAINED SOIL.

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'

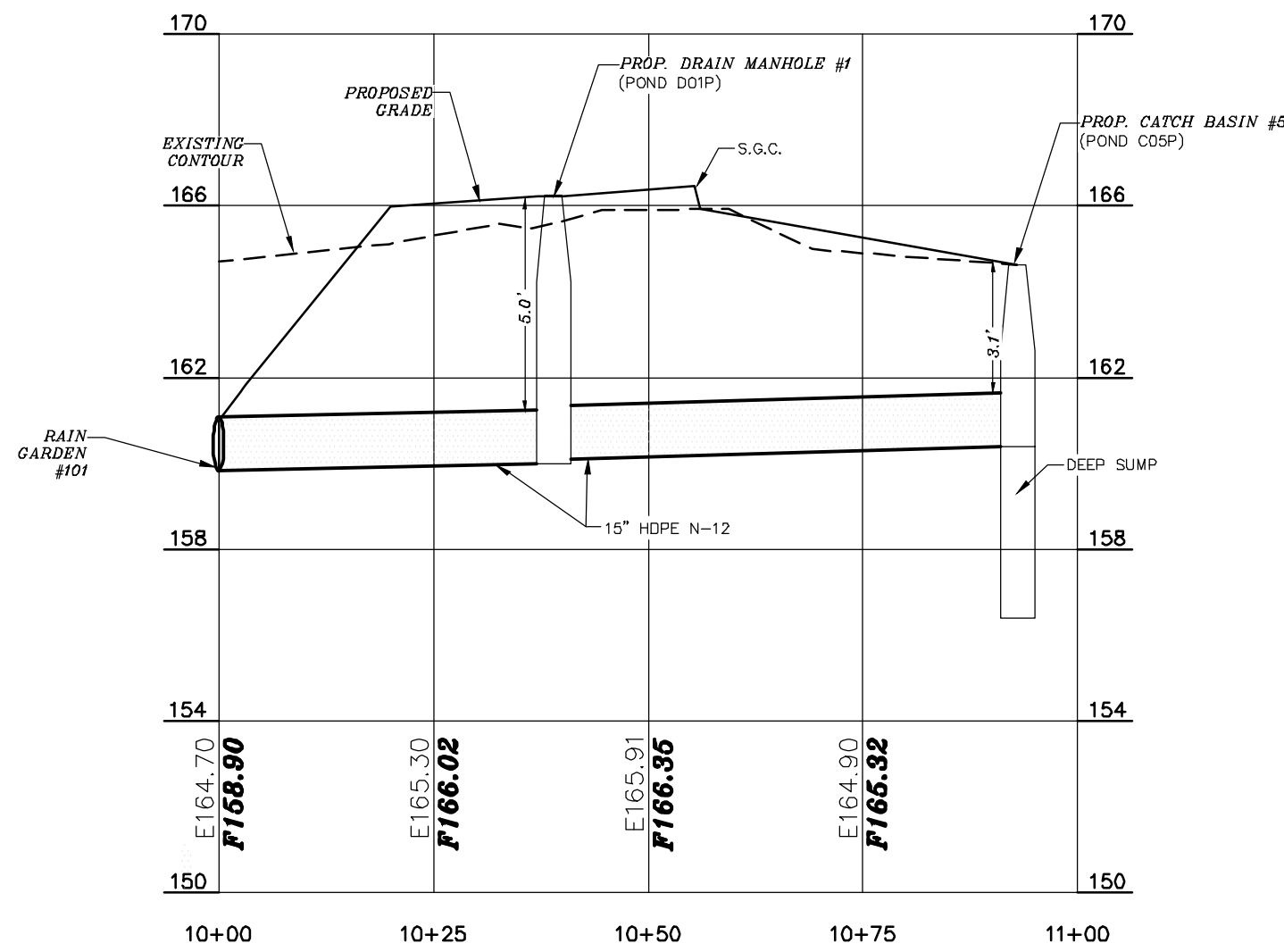
FOR PLANNING BOARD APPROVAL PURPOSES:

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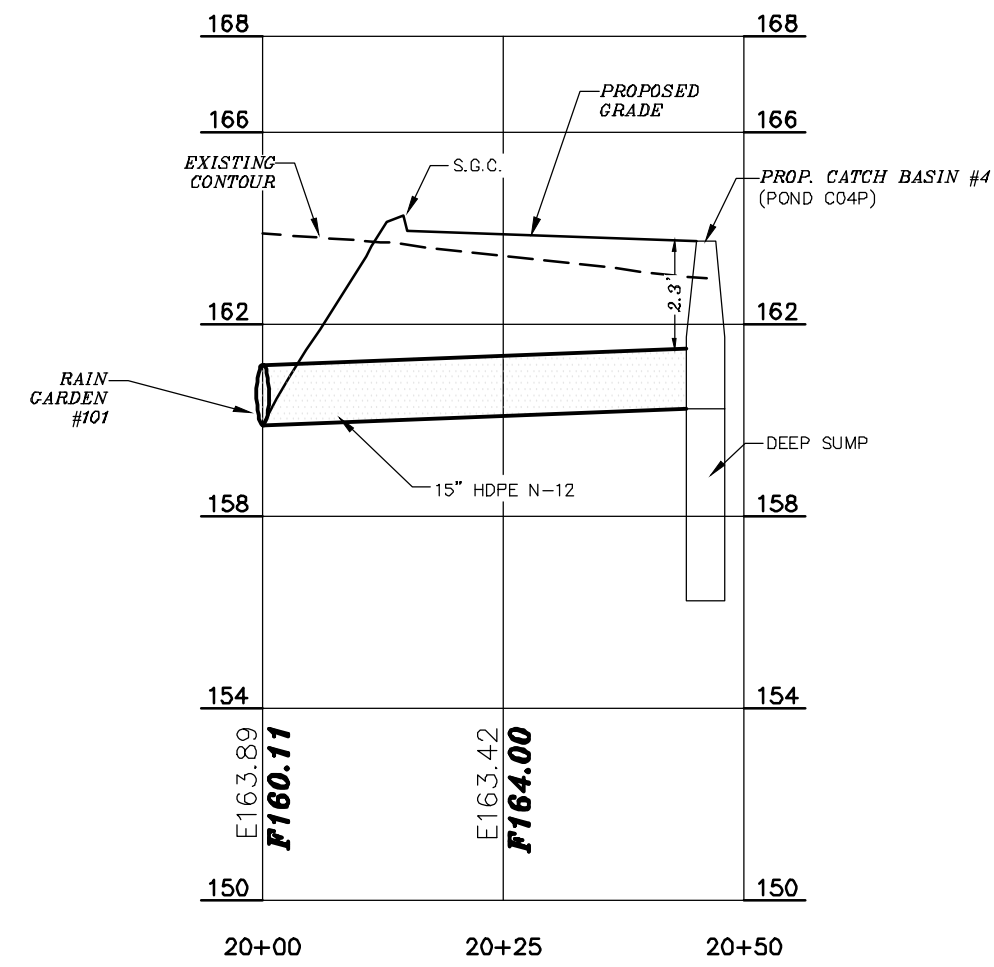
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163

KENNETH A. BERRY
No. 14243
PROFESSIONAL ENGINEER

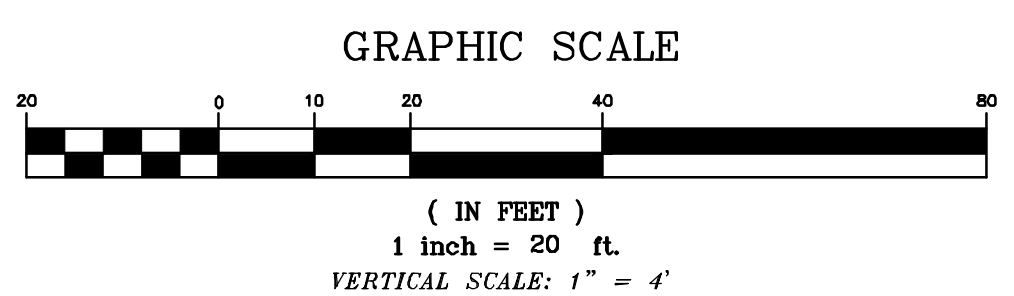
SHEET 7 OF 31



PROFILE VIEW CB #5 - RC #101



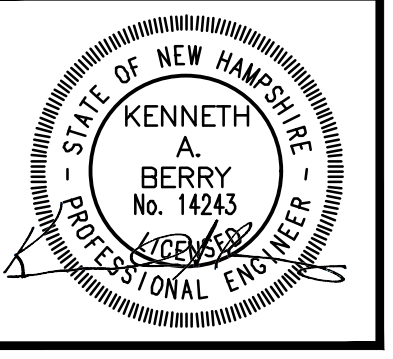
PROFILE VIEW CB #4 - RC #101



FOR PLANNING BOARD APPROVAL PURPOSES:

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BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : AUGUST 16, 2023
 FILE NO. : DB 2021-163



DRAINAGE PROFILES
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

BIORETENTION FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	Percent by Weight Passing Standard Sieve
Bioretention Filter Media Option A			
ASTM C-33 concrete sand	50 to 55		
Loomy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5

3/8" WASHED CRUSHED STONE*	
SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	95 - 100
# 4	22 - 55
# 8	0 - 10

1-1/2" WASHED CRUSHED STONE*	
SIEVE SIZE	% PASSING BY WEIGHT
2"	100
1-1/2"	90 - 100
1"	20 - 55
1/2"	0 - 15
3/8"	0 - 5

* EQUIVALENT TO STANDARD WASHED STONE - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

* EQUIVALENT TO STANDARD WASHED STONE - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

NOTES

- WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL.
- SOIL BIORETENTION FILTER MEDIA SHALL BE AS SHOWN ABOVE. "BIO MEDIA" MEANS BIORETENTION FILTER MEDIA. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
- DO NOT PLACE THE BIORETENTION 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 BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

MAINTENANCE REQUIREMENTS

- SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 0.25 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION.
- PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
- AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF BIORETENTION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.
- VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING, PRUNING, REMOVAL, AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

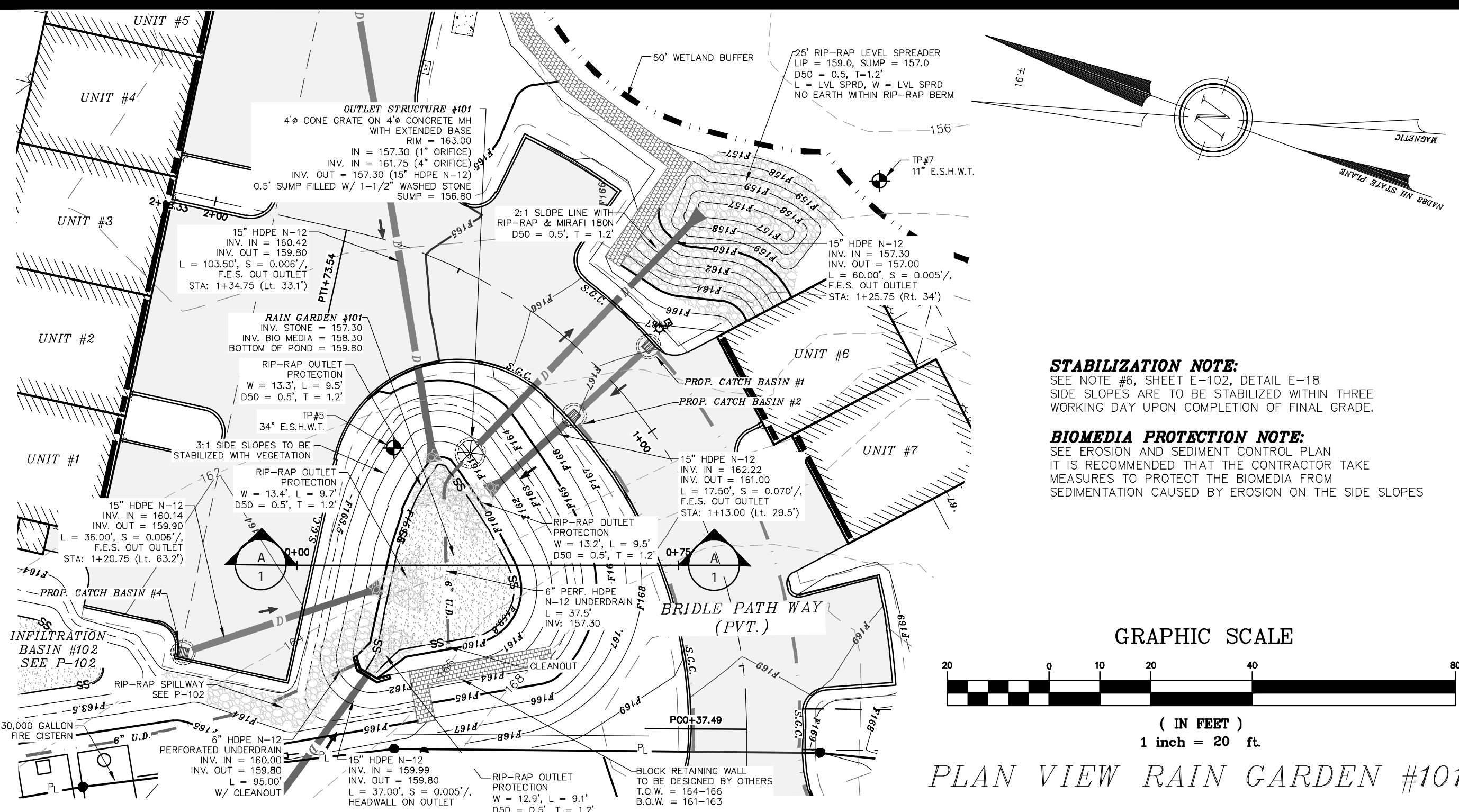
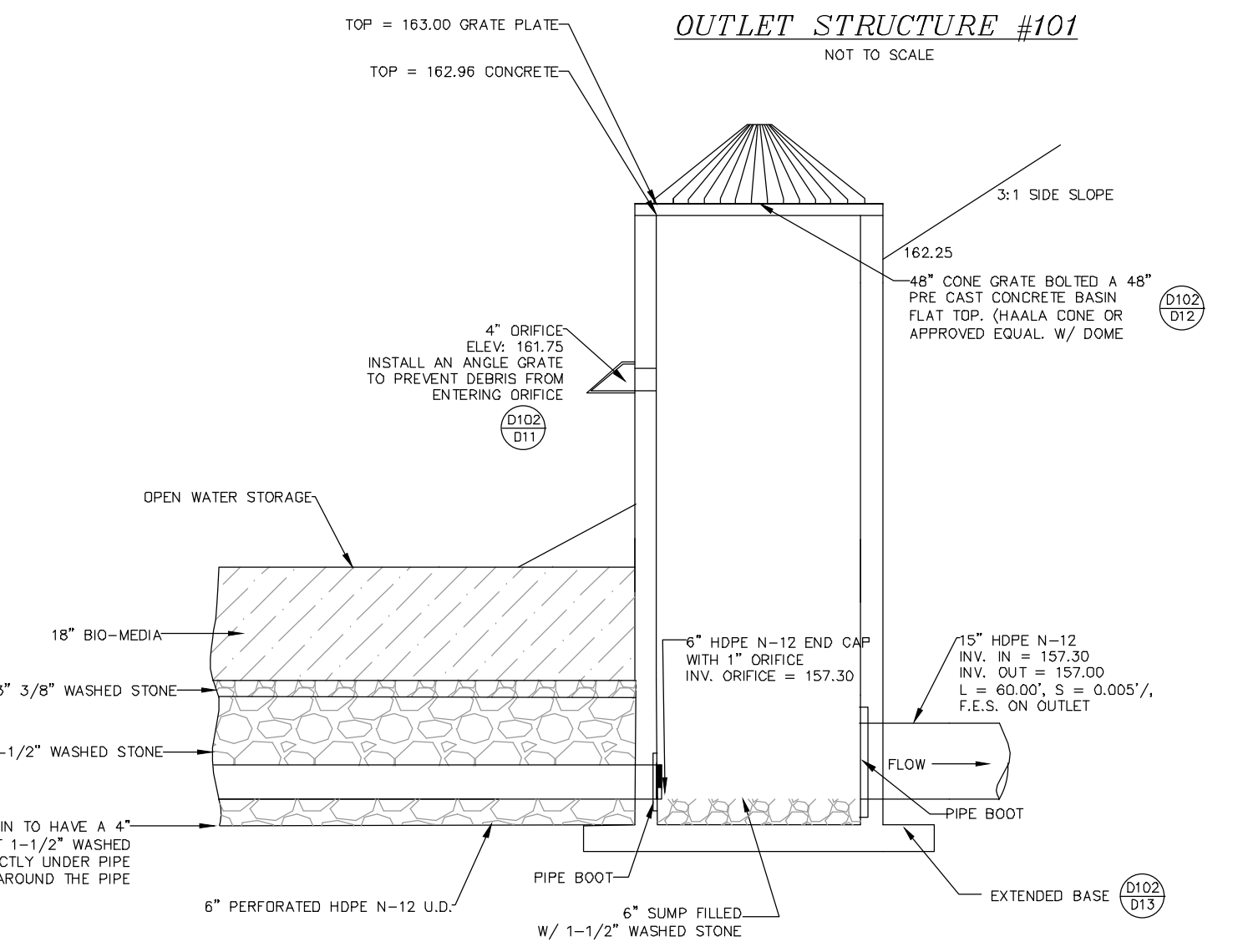
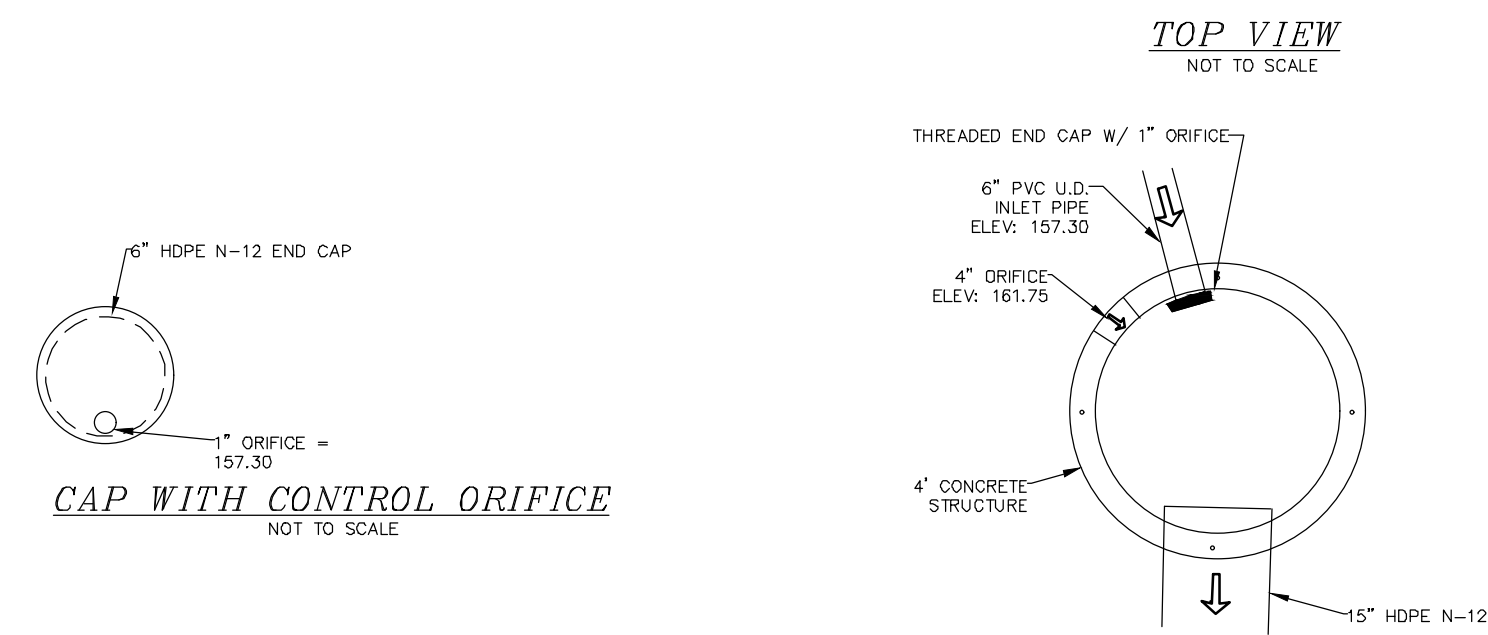
DESIGN REFERENCES

- UNH STORMWATER CENTER
- NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED.

RAIN GARDEN MIX

THE GRASS THAT IS PLANTED WITHIN A RAIN GARDEN BIO-FILTRATION SYSTEM WITHIN THE BIO-MEDIA MUST CONSIST OF A COMBINATION OF WARM SEASON GRASS SEED AND COLD SEASON GRASS SEED IN ORDER FOR THE GRASS TO START GROWING FOR STABILIZATION AND CONTINUE GROWING IN THE SANDY WELL-DRAINED ENVIRONMENT. PLANTING SPECIFICATION WILL MEET THE REQUIREMENTS AS OUTLINED IN "VEGETATION NEW HAMPSHIRE SAND AND GRAVEL PITTS MIX 1 (WARM SEASON GRASSES) (15 LBS/AC) AND INCLUDE ANNUAL AND PERENNIAL RYE GRASS SEED (15 LBS/AC); THE NEW ENGLAND NATIVE WARM SEASON GRASS MIX (23 LBS/AC) BY NEW ENGLAND WETLAND PLANTS, INC.; RAIN GARDEN MIX 180 (15 LBS/AC & 15 LBS/AC OF RYE) / RAIN GARDEN GRASS MIX 180-1 (20 LBS/AC & 10 LBS/AC OF RYE) BY ERNST CONSERVATION SEEDS, OR APPROVED EQUAL.

P1 P2



STABILIZATION NOTE:

SEE NOTE #6, SHEET E-1024. DETAIL E-18 SIDE SLOPES ARE TO BE STABILIZED WITHIN THREE WORKING DAY UPON COMPLETION OF FINAL GRADE.

BIOMEDIA PROTECTION NOTE:

SEE EROSION AND SEDIMENT CONTROL PLAN. IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PROTECT THE BIOMEDIA FROM SEDIMENTATION CAUSED BY EROSION ON THE SIDE SLOPES.

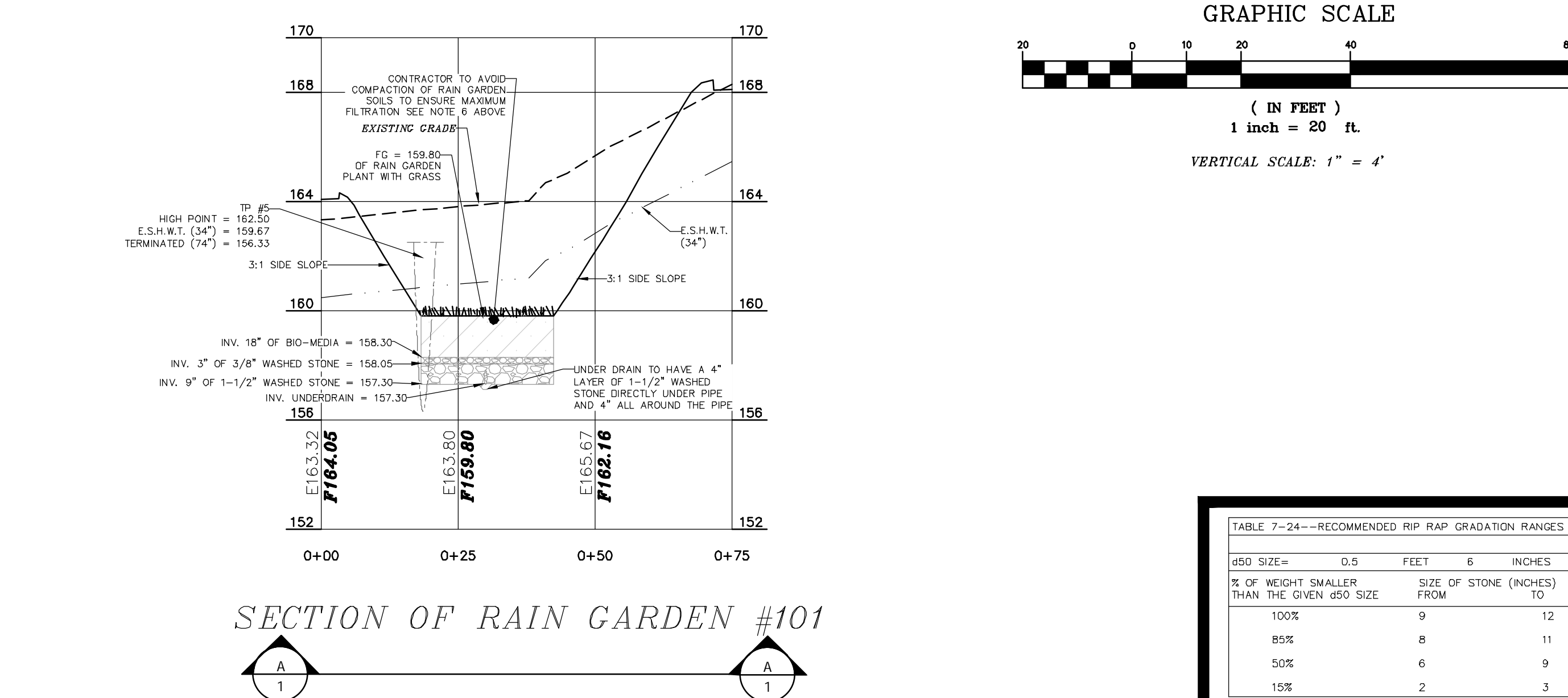
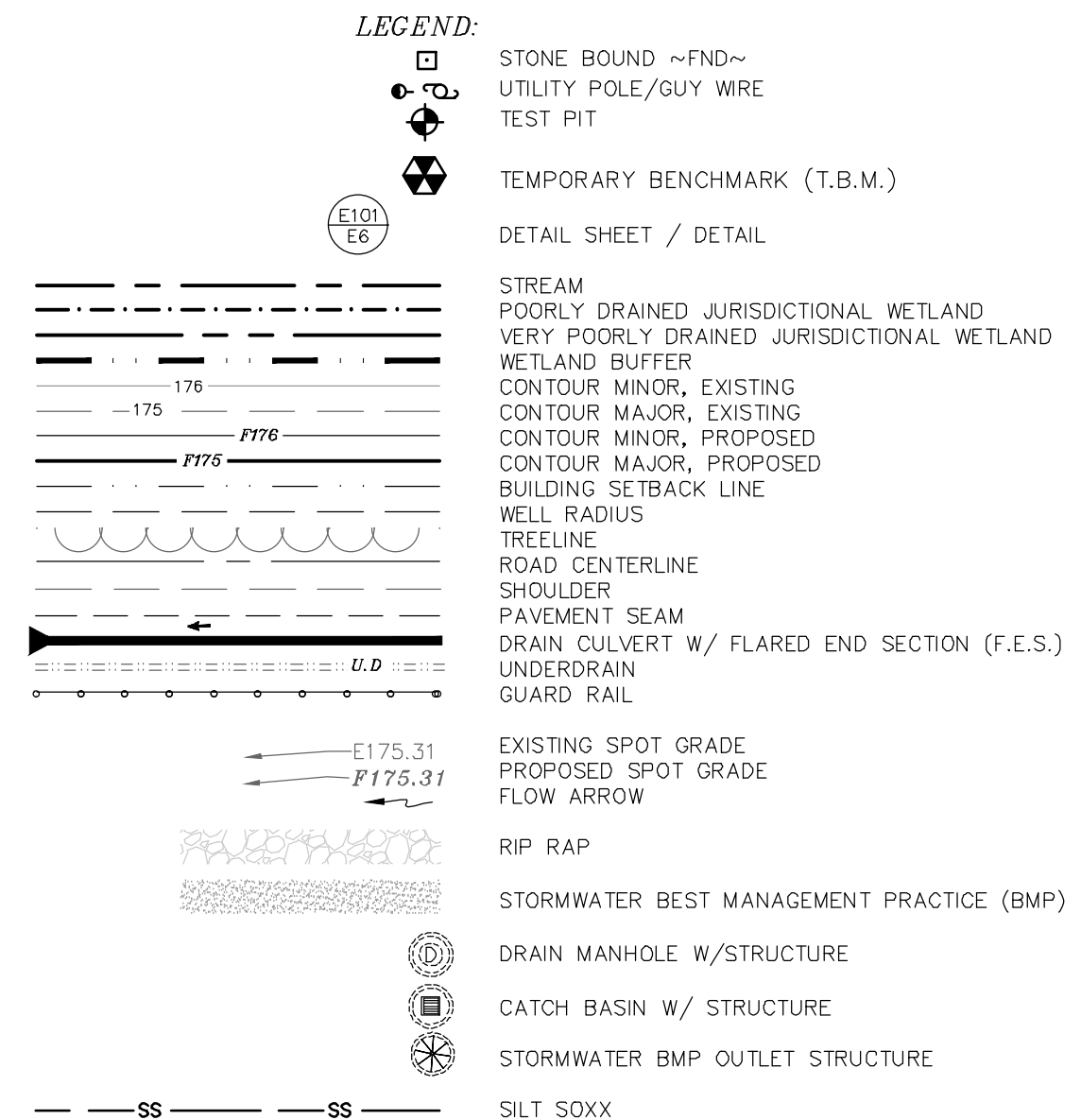


TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES			
PERCENT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES) FROM	SIZE OF STONE (INCHES) TO	FEET
100%	9	12	6
85%	8	11	6
50%	6	9	6
15%	2	3	6



FOR PLANNING BOARD APPROVAL PURPOSES:

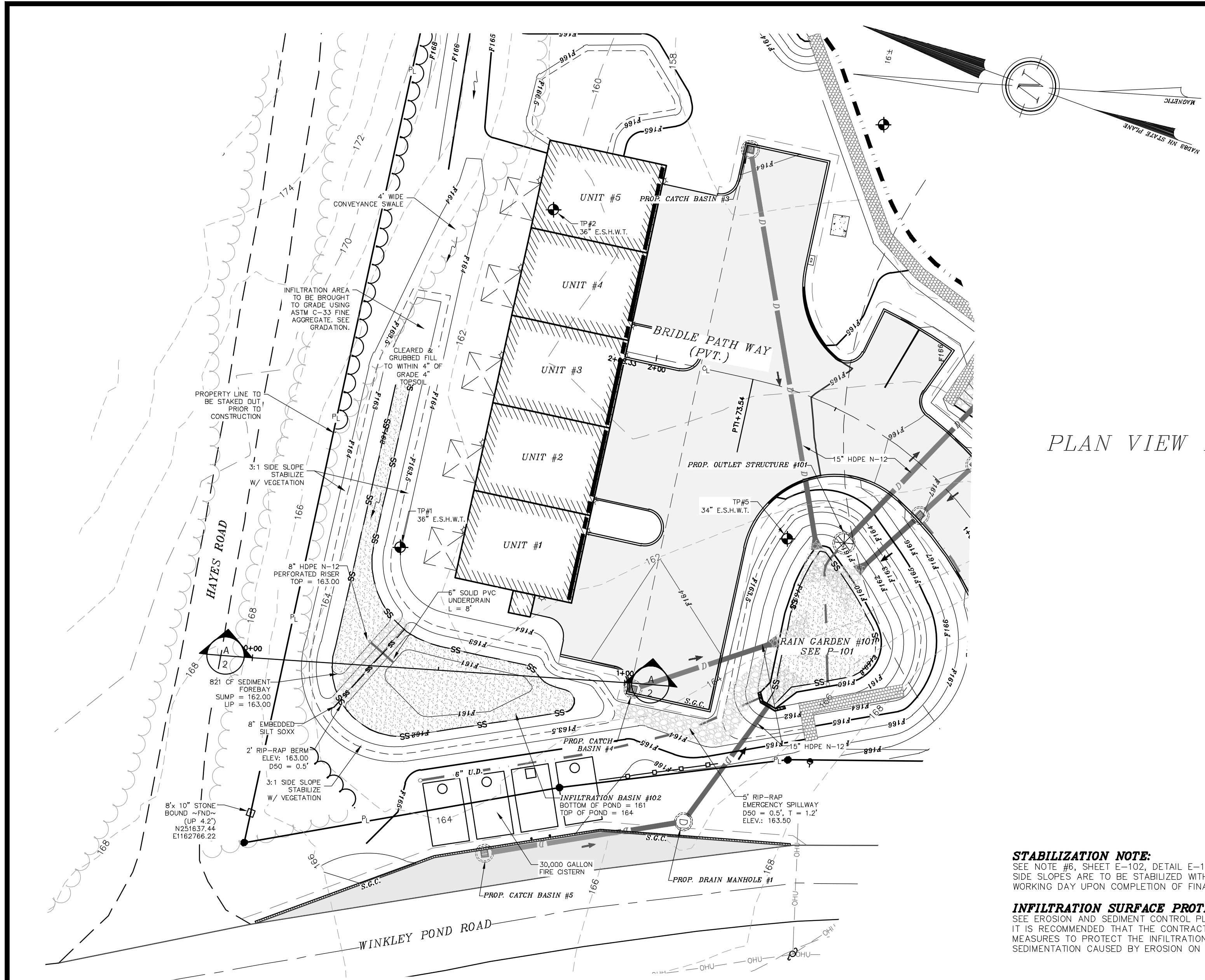
THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

RAIN GARDEN #101
LAND OF
HAMBONE LLC
49 HAWKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: AUGUST 16, 2023
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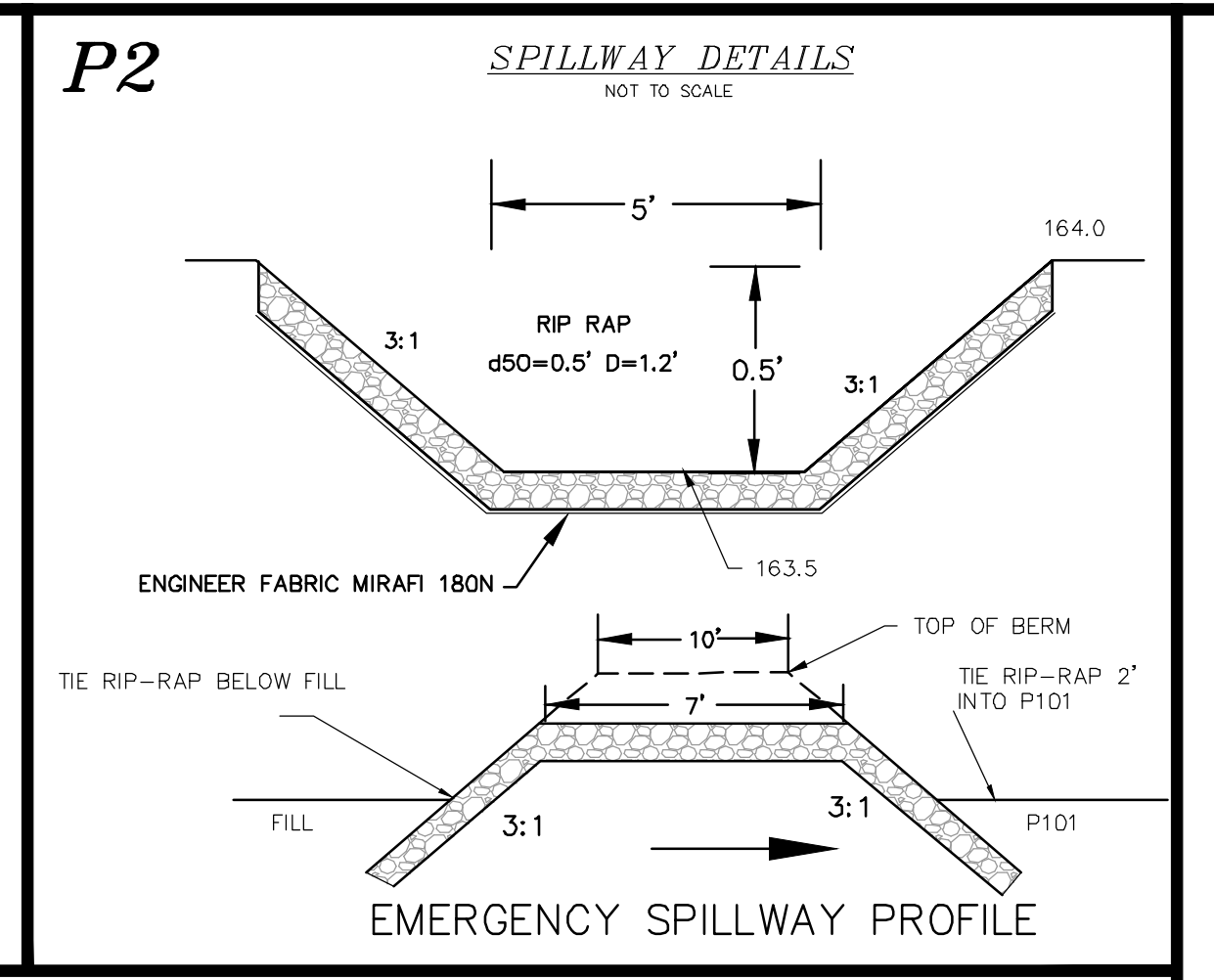
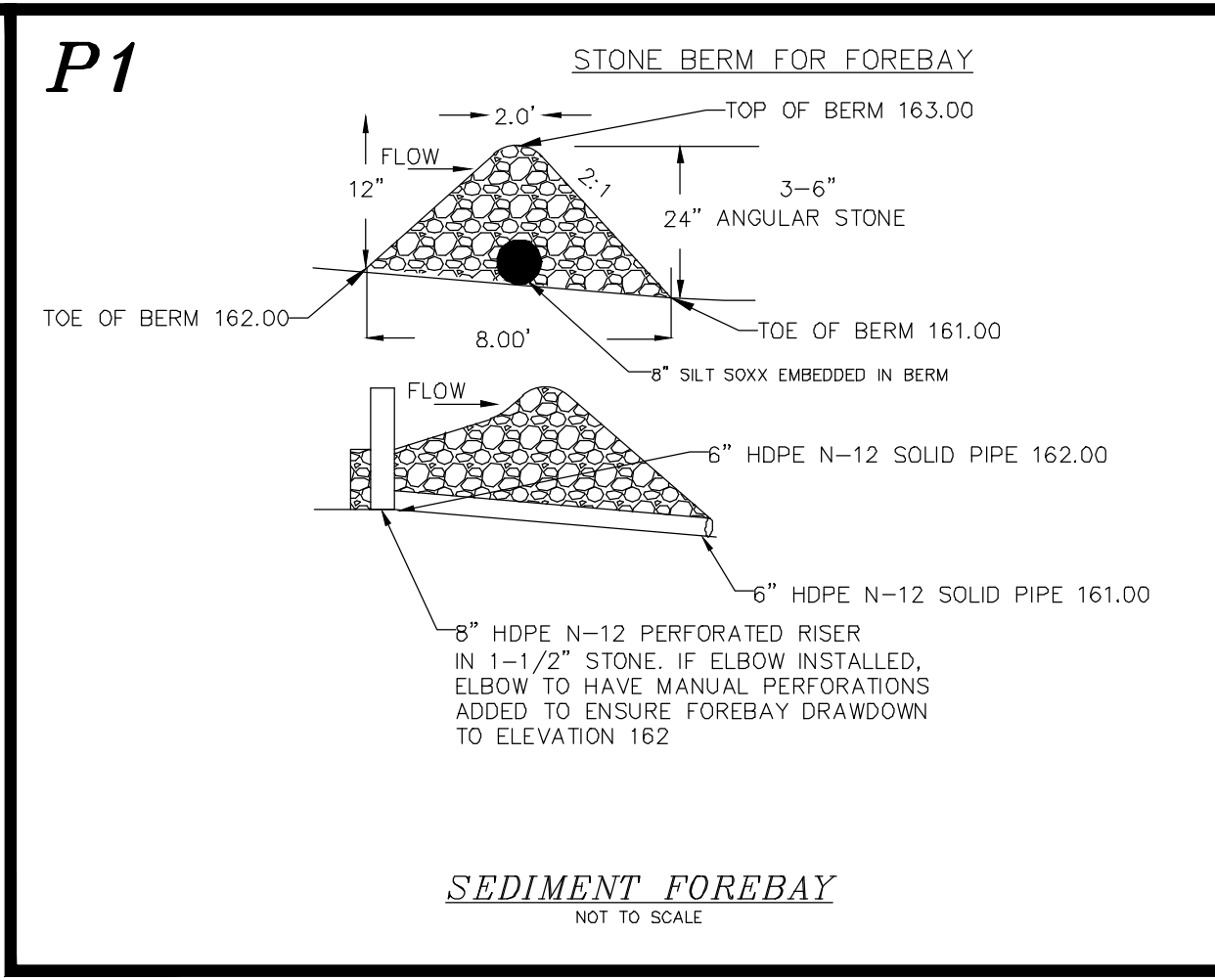
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
PROFESSIONAL ENGINEER



PLAN VIEW INFILTRATION POND #102

STABILIZATION NOTE:
 SEE NOTE #6, SHEET E-102, DETAIL E-18
 SIDE SLOPES ARE TO BE STABILIZED WITHIN THREE WORKING DAY UPON COMPLETION OF FINAL GRADE.

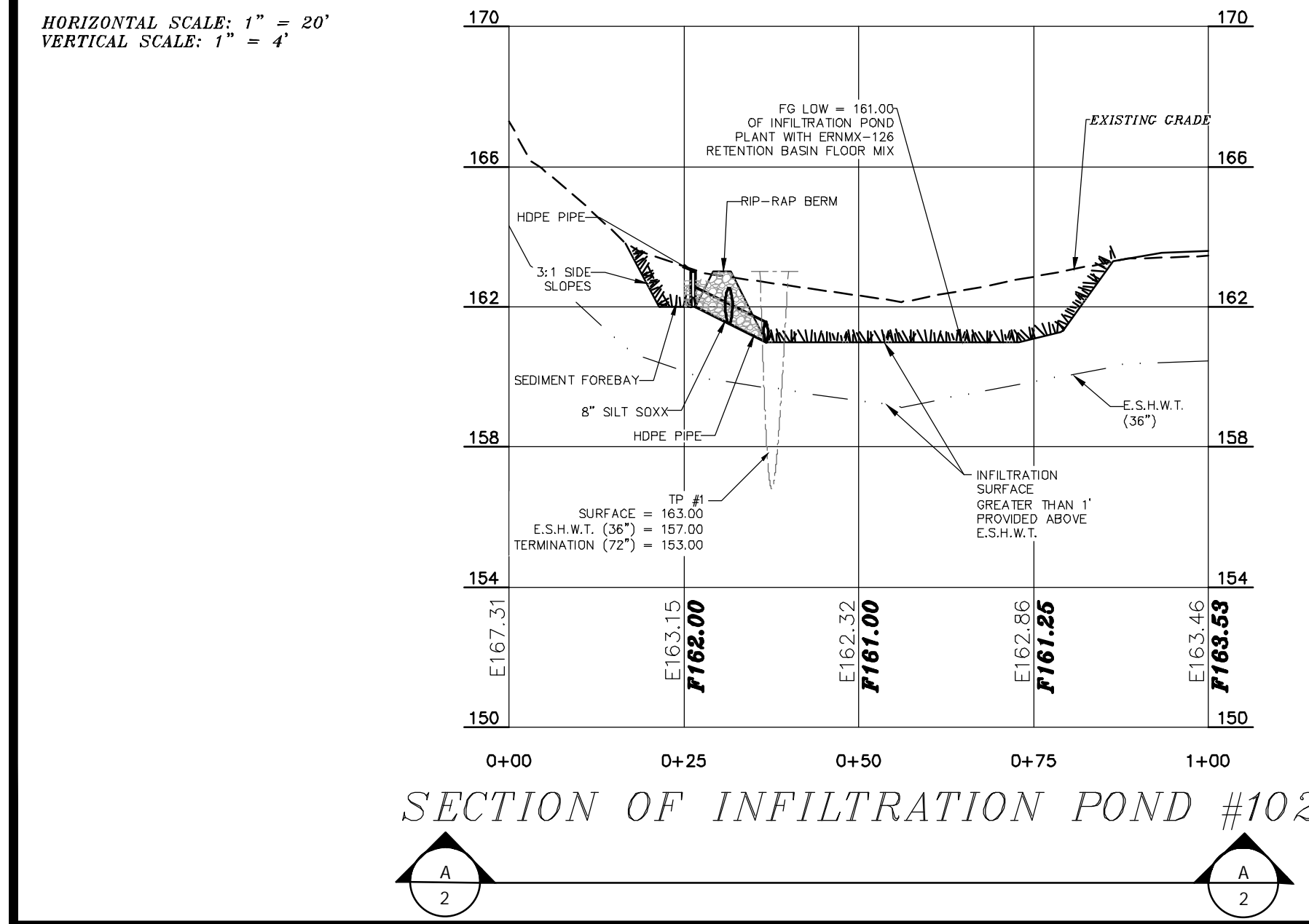
INFILTRATION SURFACE PROTECTION NOTE:
 SEE EROSION AND SEDIMENT CONTROL PLAN
 IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PROTECT THE INFILTRATION SURFACE FROM SEDIMENTATION CAUSED BY EROSION ON THE SIDE SLOPES



LEGEND:

- STONE BOUND ~FND~
- UTILITY POLE/GUY WIRE
- TEST PIT
- TEMPORARY BENCHMARK (T.B.M.)
- DETAIL SHEET / DETAIL
- STREAM
- POORLY DRAINED JURISDICTIONAL WETLAND
- VERY POORLY DRAINED JURISDICTIONAL WETLAND
- WETLAND BUFFER
- CONTOUR MINOR, EXISTING
- CONTOUR MINOR, PROPOSED
- CONTOUR MAJOR, PROPOSED
- BUILDING SETBACK LINE
- WELL RADIUS
- TREELINE
- ROAD CENTERLINE
- SHOULDER
- PAYMENT SEAM
- DRAIN CULVERT W/ FLARED END SECTION (F.E.S.)
- UNDERDRAIN
- GUARD RAIL
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- FLOW ARROW
- RIP RAP
- STORMWATER BEST MANAGEMENT PRACTICE (BMP)
- DRAIN MANHOLE W/ STRUCTURE
- CATCH BASIN W/ STRUCTURE
- STORMWATER BMP OUTLET STRUCTURE
- SILT SOXX

GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.



SECTION OF INFILTRATION POND #102

ASTM C-33 FINE AGGREGATE	
SIIEVE SIZE	% PASSING BY WEIGHT
3/8"	100
# 4	95 - 100
# 8	80 - 100
# 16	50 - 85
# 30	25 - 60
# 60	10 - 30
# 100	2 - 10

REVISION	DATE	DESCRIPTION
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INFILTRATION BASIN #102
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
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FOR PLANNING BOARD APPROVAL PURPOSES:

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KENNETH A. BERRY
 No. 14243
 PROFESSIONAL ENGINEER



EROSION AND SEDIMENT CONTROL NOTES:

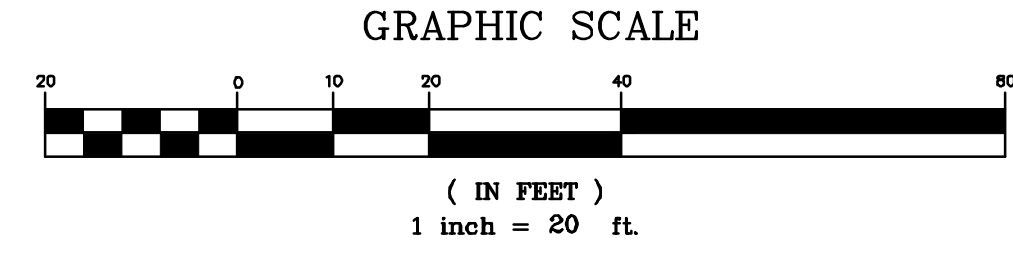
- 1.) OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
- 2.) APPLICANT: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
- 3.) LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
330,912 Sq.Ft., 7.60 Ac., TOTAL UPLAND
- 4.) S.C.R.D. BOOK 4976, PAGE 1023
- 5.) EROSION AND SEDIMENT CONTROL INSPECTIONS TO BE CONDUCTED ONCE PER EVERY SEVEN DAYS AND AT AN INCREASED FREQUENCY INCLUDING WITHIN 24-HOURS OF A 0.25 INCH RAIN EVENT. INSPECTIONS TO BE CONDUCTED BY A "QUALIFIED PERSON" AS DEFINED BY EPA CGP 4.1.1 AND INSPECTION REPORTS SUBMITTED TO THE TOWN OF BARRINGTON, PLANNING DEPARTMENT WITHIN 24 HOURS IN ACCORDANCE WITH CGP 4.1.7 AND MAINTAINED BY THE OWNER FOR A PERIOD OF THREE YEARS AFTER THE PROJECT IS COMPLETED.
- 6.) PER EPA CGP 2.1.2.2 (INSTALL PERIMETER CONTROL). "YOU MUST INSTALL SEDIMENT CONTROLS ALONG THOSE PERIMETER AREAS OF YOUR SITE THAT WILL RECEIVE STORMWATER FROM EARTH DISTURBING ACTIVITIES." AS A RESULT OF SWPPP INSPECTIONS, THE CONTRACTOR MAY HAVE TO EXPAND PERIMETER CONTROLS TO MEET THIS REQUIREMENT. THE E&S PLAN IS INITIAL GUIDANCE AS TO THE ANTICIPATED REQUIREMENTS AND IT THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT STORMWATER VIOLATION DO NOT OCCUR
- 7.) CONTRACTOR IS REQUIRED TO HAVE A CONSTRUCTION ENTRANCE.
- 8.) CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE DRIVEWAY TO ENSURE THAT NO SEDIMENT IS BEING TRACKED ONTO WINKLEY POND ROAD.
- 9.) CONTRACTOR IS RESPONSIBLE FOR CLEANING AND MAINTAINING THE INLET PROTECTION ONCE INSTALLED.
- 10.) FUGITIVE DUST IS TO BE CONTROLLED THROUGHOUT THE CONSTRUCTION PROCESS IN ACCORDANCE WITH ENV-A 1000.
- 11.) CONTRACTOR IS TO MEET THE REQUIREMENTS SPECIFIED IN RSA 430:51-57 AND AGR 3800, RELATING TO INVASIVE SPECIES.
- 12.) CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WATER QUALITY FROM ANY RUN OFF DURING THE CONSTRUCTION PROCESS, IN ACCORDANCE WITH ENV-WQ 1507, IN ORDER TO PREVENT VIOLATIONS OF THE STORM WATER QUALITY STANDARDS.
- 13.) CONTRACTOR CAN USE SILT FENCE, SILT SOXX OR MULCH BERM FOR PERIMETER CONTROL. SPECIFIC PRACTICES MAY BE SPECIFIED. SILT FENCE OR SILT SOXX REQUIRED WHEN UPGRADIENT DISTURBED SOIL IS GREATER THAN 5%. MULCH BERM CAN BE USED WHEN THE UPGRADIENT DISTURBED SOIL IS 5% OR LESS.

STABILIZATION NOTE:

SEE NOTE #6, SHEET E-102, DETAIL E-18
SIDE SLOPES ARE TO BE STABILIZED WITHIN THREE WORKING DAY UPON COMPLETION OF FINAL GRADE.

LEGEND:

- STONE BOUND ~FND~
- UTILITY POLE/GUY WIRE
- TEST PIT
- TEMPORARY BENCHMARK (T.B.M.)
- DETAIL SHEET / DETAIL
- STREAM
- POORLY DRAINED JURISDICTIONAL WETLAND
- VERY POORLY DRAINED JURISDICTIONAL WETLAND
- WETLAND BUFFER
- CONTOUR MINOR, EXISTING
- CONTOUR MAJOR, PROPOSED
- CONTOUR MAJOR, PROPOSED
- BUILDING SETBACK LINE
- WELL RADIUS
- TREELINE
- ROAD CENTERLINE
- SHOULDER
- PAVEMENT SEAM
- DRAIN CULVERT W/ FLARED END SECTION (F.E.S.)
- UNDERDRAIN
- GUARD RAIL
- RIP RAP
- STORMWATER BEST MANAGEMENT PRACTICE (BMP)
- DRAIN MANHOLE W/ STRUCTURE
- CATCH BASIN W/ STRUCTURE
- STORMWATER BMP OUTLET STRUCTURE
- SILT FENCE / EROSION MIX BERM
- FILTRIXX 8" - 12" SILT SOXX AS SPECIFIED
- PERIMETER CONTROL
- CONSTRUCTION FENCE
- STORMWATER BMP PROTECTION
- PERIMETER CONTROL
- RESIDENTIAL/ROADWAY CONSTRUCTION
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH



SOILS & DEWATERING:

- 313 DEERFIELD LOAMY SAND K= 0.17
- 400 UDORTHENTS (DEERFIELD DERIVED) LOAMY SAND K= 0.17
- 915 DEERFIELD VARIANT LOAMY SAND K= 0.17

SEE SITE SPECIFIC SOILS MAP (SSSM)
SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR - K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. & ROCKINGHAM COUNTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES.

CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9-1:2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIEST OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

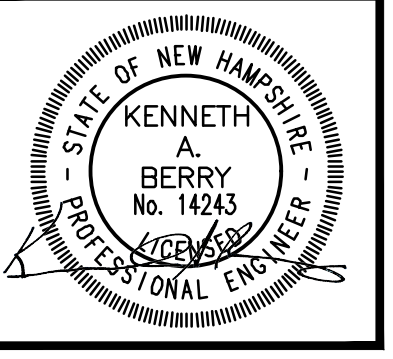
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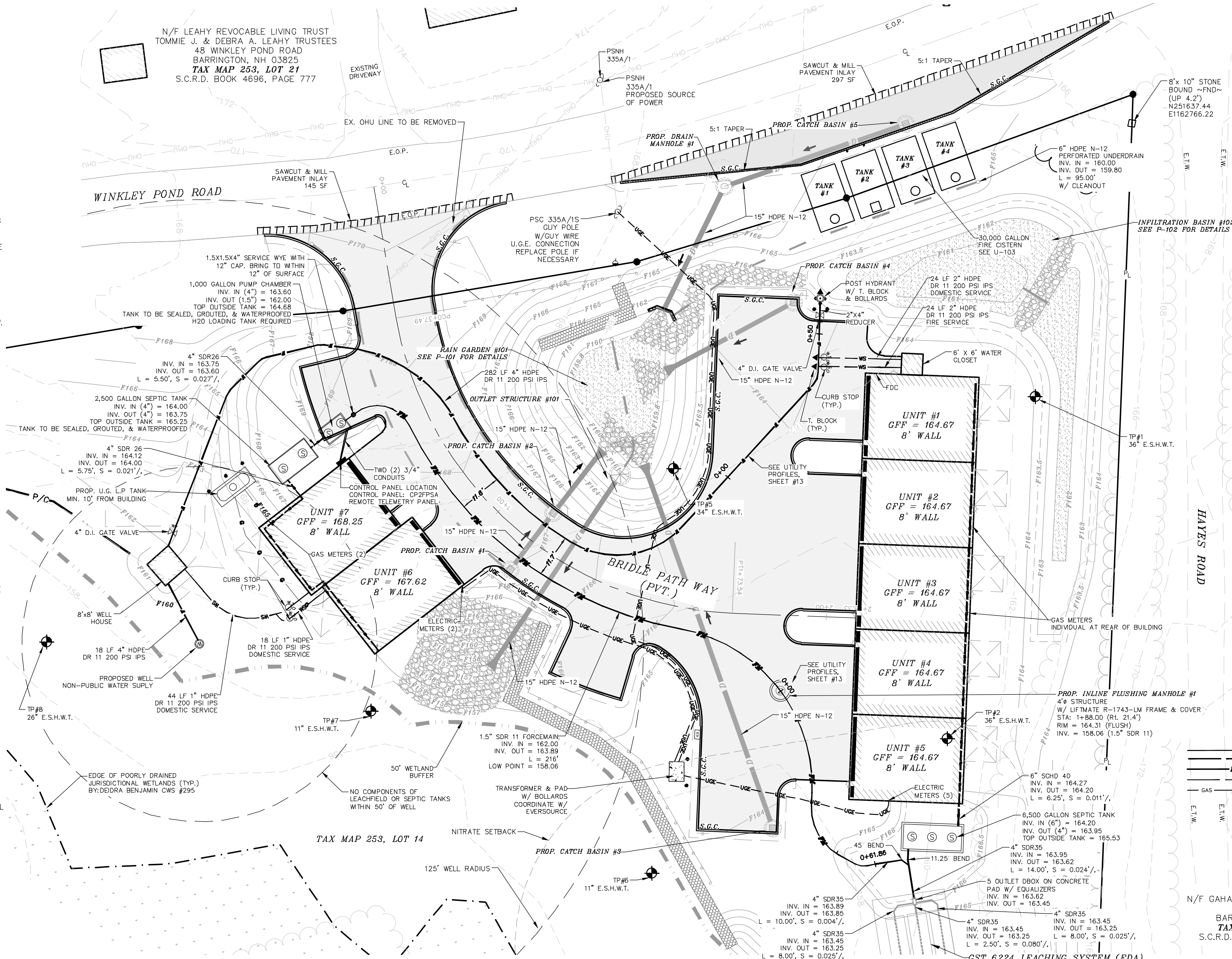
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EROSION AND SEDIMENT CONTROL PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
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- UTILITY NOTES:**
- UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
 - PROTECTION OF SUBGRADE: THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STABLE, DE-WATERED SUBGRADES, TRENCHES, AND OTHER AREAS DURING CONSTRUCTION. SUBGRADE DISTURBANCE MAY BE INFLUENCED BY EXCAVATION METHODS, MOISTURE, PRECIPITATION, GROUNDWATER CONTROL, AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT SUBGRADE DISTURBANCE. SUCH PRECAUTIONS MAY INCLUDE DIVERTING STORMWATER RUNOFF AWAY FROM CONSTRUCTION AREAS, REDUCING TRAFFIC IN SENSITIVE AREAS, AND MAINTAINING AN EFFECTIVE DEWATERING PROGRAM. SOILS EXHIBITING HEAVING OR INSTABILITY SHALL BE OVER EXCAVATED TO MORE COMPETENT BEARING SOIL AND REPLACED WITH FREE DRAINING STRUCTURAL FILL MEETING THE ENGINEERS SPECIFIC RECOMMENDED CRITERIA.
 - IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER (NOT ALLOWED IN TOWN R.O.W.), EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.
 - PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.
 - FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR. ALL APPROPRIATE UTILITY COMPANIES AND THE BARRINGTON DPW.
 - ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO TOWN OF BARRINGTON STANDARDS. ALL HIGHWAY CONSTRUCTION WILL MEET THE TOWN OF BARRINGTON STANDARDS. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF WATER VALVES WITH BARRINGTON DPW.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (800) 882-7784. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.
 - CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH FAIRPOINT COMMUNICATIONS AT (603) 427-5525.
 - THE APPLICANT IS ABLE TO MAKE LIKE CHANGES TO PRODUCTS SO LONG AS THE DESIGN ENGINEER APPROVES THAT THEY MEET THE DESIGN INTENT.
 - CONTRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH COMCAST.
 - PROPANE TO BE PROVIDED VIA UNDERGROUND TANK LOCATED NO CLOSER THAN 10' TO EACH STRUCTURE.
 - ALL SEWERMAN HOLE RIMS & COVERS ARE TO BE LIFTMATE R-1743-LM AND MADE IN NORTH AMERICA.
 - ALL WATER SERVICES ARE TO BE WITNESSED WITH A 2"x4" PAINTED BLUE. ALL SEWER SERVICES ARE TO BE WITNESSED WITH A 2"x4" PAINTED YELLOW. IS STUBBED PRIOR TO BUILDING CONSTRUCTION.
 - CURB BOXES SHOULD BE PLACED IN THE LAWN AREA, OR IF PLACED IN PAVEMENT, A ROAD BOX IS REQUIRED.
 - VERTICAL DATUM BASED ON NAD83 ELEVATIONS. HORIZONTAL DATUM BASED ON NAD83 STATE PLANE COORDINATES GATHERED USING CARLSON BRX7 SURVEY GRADE GPS.
 - MINIMUM SLOPE FOR ALL SEWER SERVICE CONNECTIONS IS TO BE NO LESS THAN 0.010'/, FOR 6" SDR 35/SCHD. 40 AND NO LESS THAN 0.021'/, FOR 4" SDR 35/SCHD. 40.
 - ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & DOVER COMMUNITY SERVICES SEWER DIVISION STANDARDS. ALL PVC SEWER PIPE IS TO CONFORM WITH ENV-WQ 704.05 (c)-(e) FOR SDR 35 GRAVITY SEWER PIPE, CONFORM WITH ENV-WQ 704.08 FOR SDR 11 FORCE MAIN PRESSURE PIPE, AND CONFORM WITH ASTM D3034. PVC JOINT SEALS SHALL CONFORM WITH ASTM D3121. THE FORCE MAIN SHALL BE TESTED IN ACCORDANCE WITH ENV-WQ 704.09.
 - CONTRACTOR TO TRANSFER TEMPORARY BENCHMARK TO A SUITABLE BENCHMARK TO CONTROL CONSTRUCTION. ANY ELEVATION DISCREPANCIES ARE TO BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
 - ALL SEWER AND WATER CROSSINGS ARE TO MAINTAIN A 1.5' OF SEPARATION AND 10' HORIZONTAL CLEARANCE BETWEEN WATER AND SEWER.
 - SEE U-102 FOR SIMPLEX EFFLUENT PUMP STATION DESIGN INFORMATION. NO PUMP SUBSTITUTIONS ARE ALLOWED WITHOUT DESIGN ENGINEER APPROVAL. UNITS #1-5 FLOW VIA GRAVITY TO THE GST 6224 LEACHING SYSTEM. UNITS #6 & 7 UTILIZE THE SIMPLEX PUMP STATION. DOSING FOR EACH PUMP CYCLE FROM UNITS #6 & 7 IS PROPORTIONAL TO THE TOTAL FLOW RECEIVED BY THE GST 6224 LEACHING SYSTEM. OPERATIONS SHALL TAKE CAUTION TO NOT OVERLOAD THE PIPE VOLUME OF THE LEACHING SYSTEM. SEE GST 6224 LEACHING SYSTEM DESIGN PLAN.
 - SEE U-103 FOR 30,000 GALLON FIRE CISTERN DETAILS AND ELEVATIONS.
 - UNITS WILL UTILIZE MINI-SPLIT SYSTEMS.



NOTES:

- OWNER & APPLICANT: HAMBONE LLC, 242 CENTRAL AVE, DOVER, NH 03820
- LOT OF RECORD: TAX MAP 253, LOT 14
- THE INTENT OF THIS PLAN IS TO PROVIDE UTILITY AND ENGINEERING DETAILS OF BRIDLE PATH WAY. EXISTING CONTOURS ARE PROVIDED AT 2' INTERVALS AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.
- SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOX). BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.
- APPROXIMATE INTERNAL PLUMBING SHOWN FOR PLANNING BUILDING EXIT PURPOSES ONLY. NO INTERNAL CLEANOUTS ALLOWED.

LEGEND:

- STONE BOUND ~FND~ UTILITY POLE/GUY WIRE TEST PIT
- TEMPORARY BENCHMARK (T.B.M.)
- DETAIL SHEET / DETAIL
- STREAM
- POORLY DRAINED JURISDICTIONAL WETLAND
- VERY POORLY DRAINED JURISDICTIONAL WETLAND
- WETLAND BUFFER
- CONTOUR MINOR, EXISTING
- CONTOUR MAJOR, EXISTING
- CONTOUR MINOR, PROPOSED
- CONTOUR MAJOR, PROPOSED
- BUILDING SETBACK LINE
- WELL RADIUS
- TREELINE
- ROAD CENTERLINE
- SHOULDER
- DRAIN CULVERT W/ FLARED END SECTION (F.E.S.)
- GUARD RAIL
- RIP RAP
- STORMWATER BEST MANAGEMENT PRACTICE (BMP)
- DRAIN MANHOLE W/ STRUCTURE
- CATCH BASIN W/ STRUCTURE
- STORMWATER BMP OUTLET STRUCTURE
- TRANSFORMER / J.BOX UNDERGROUND UTILITY
- PROPOSED WELL
- GATE VALVE
- CURB STOP
- FIRE HYDRANT
- THRUST BLOCKS
- LIGHT TYPE "A" MOUNTED ON UNIT
- LIGHT TYPE "B" MOUNTED ON POLE
- INLINE FLUSHING MANHOLE W/ STRUCTURE
- PROPOSED WATER MAIN LINE
- PROPOSED WATER SERVICE
- PROPOSED EFFLUENT FORCEMAIN
- PROPOSED GRAVITY SEWER SERVICE
- PROPOSED GAS LINE / UG LP TANK
- EFFLUENT DISPOSAL AREA
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

PLAN VIEW BRIDLE PATH WAY 0+00 TO END

PROFILE VIEW BRIDLE PATH WAY 0+00 TO END

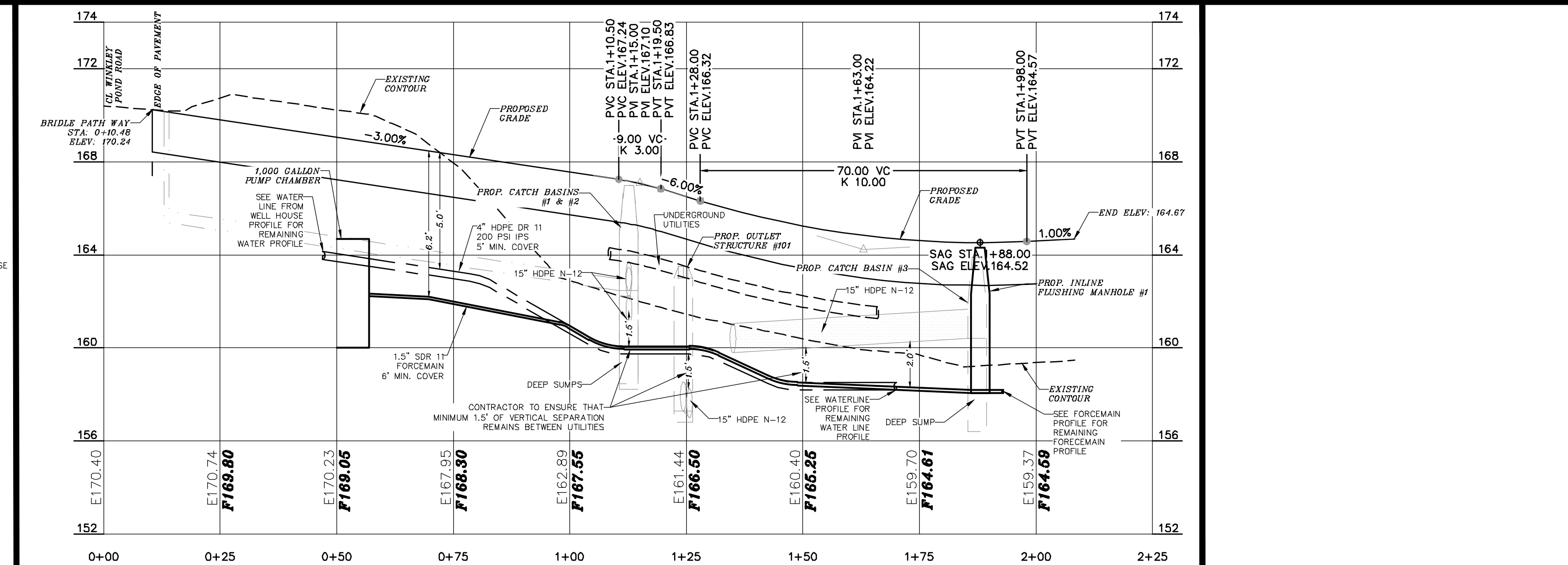
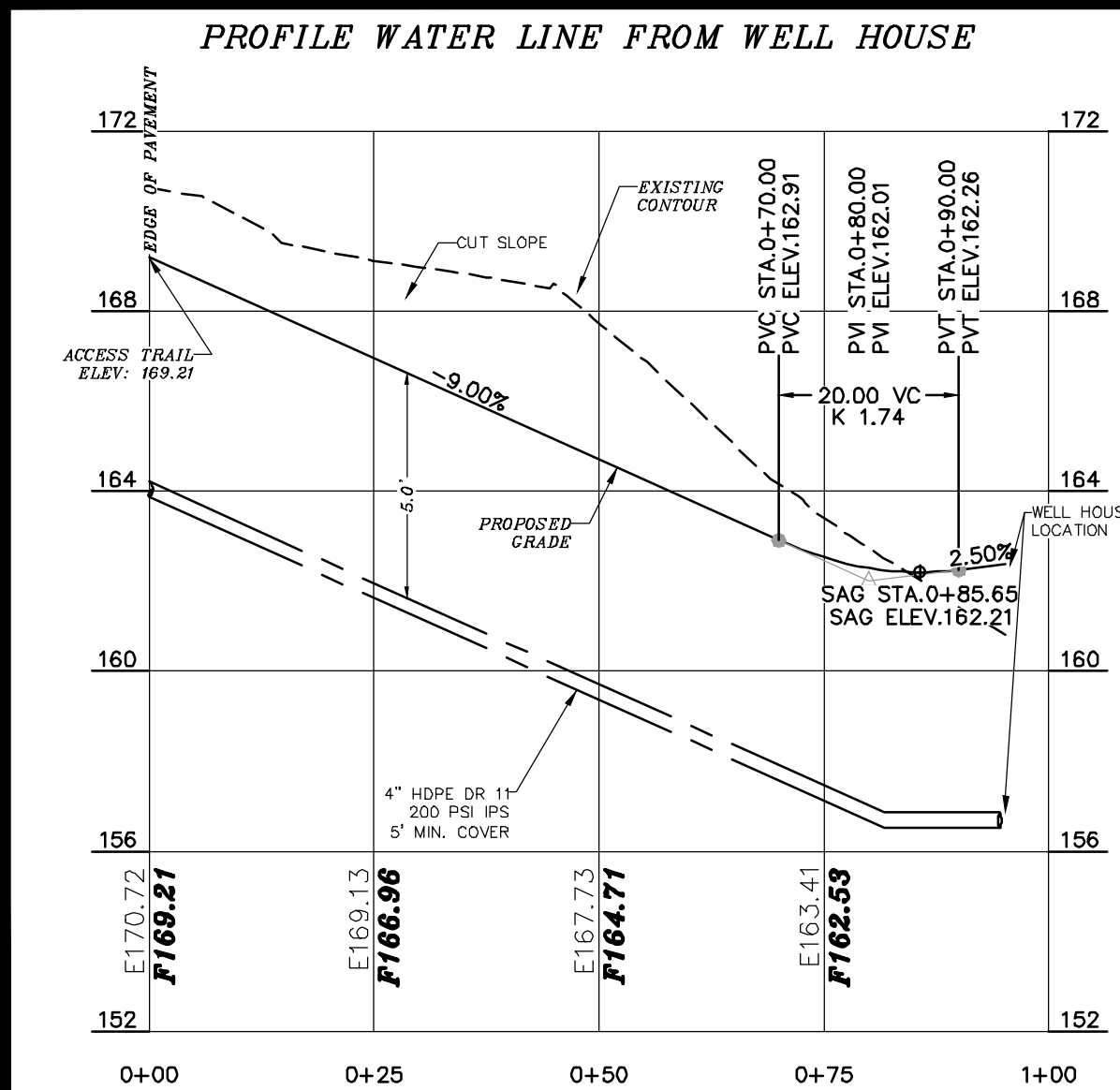
GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

VERTICAL SCALE: 1" = 4'

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.



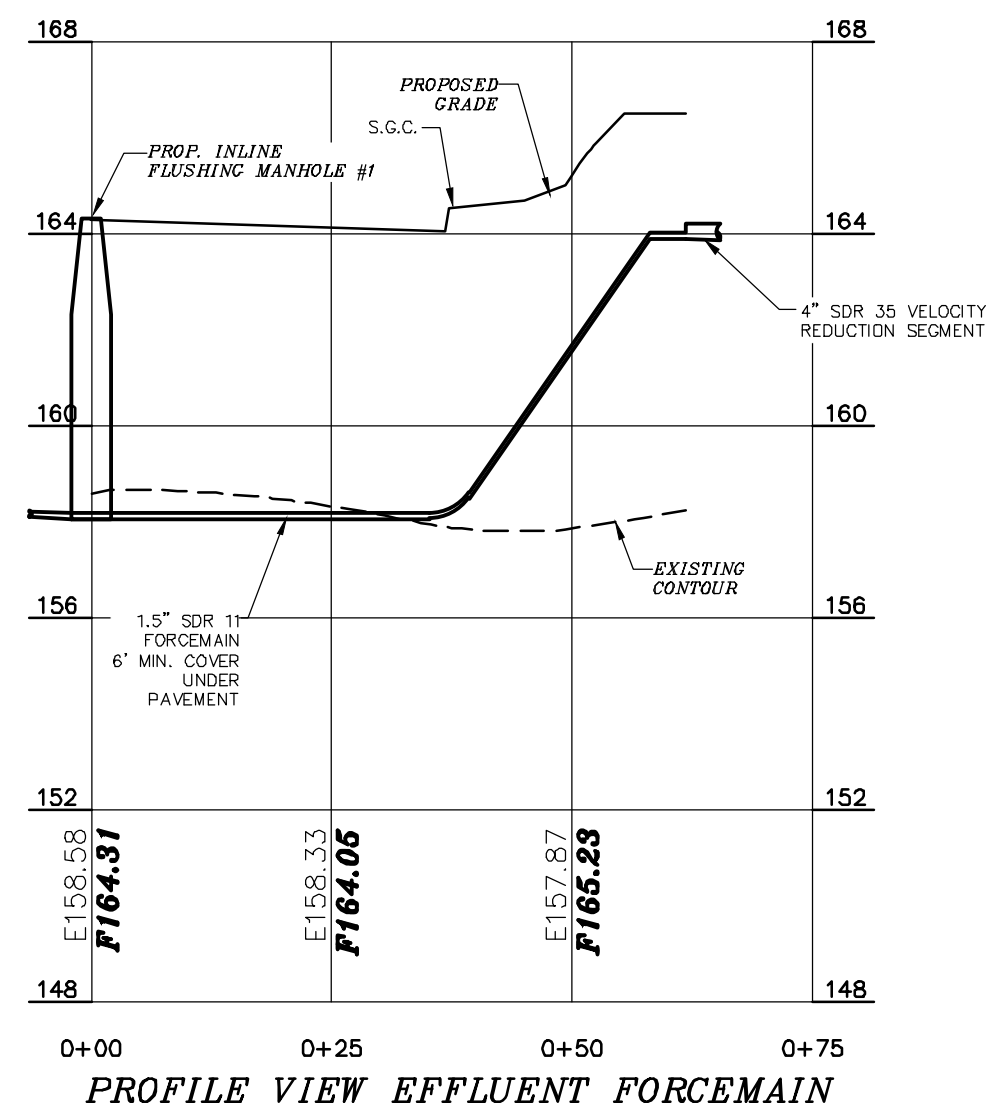
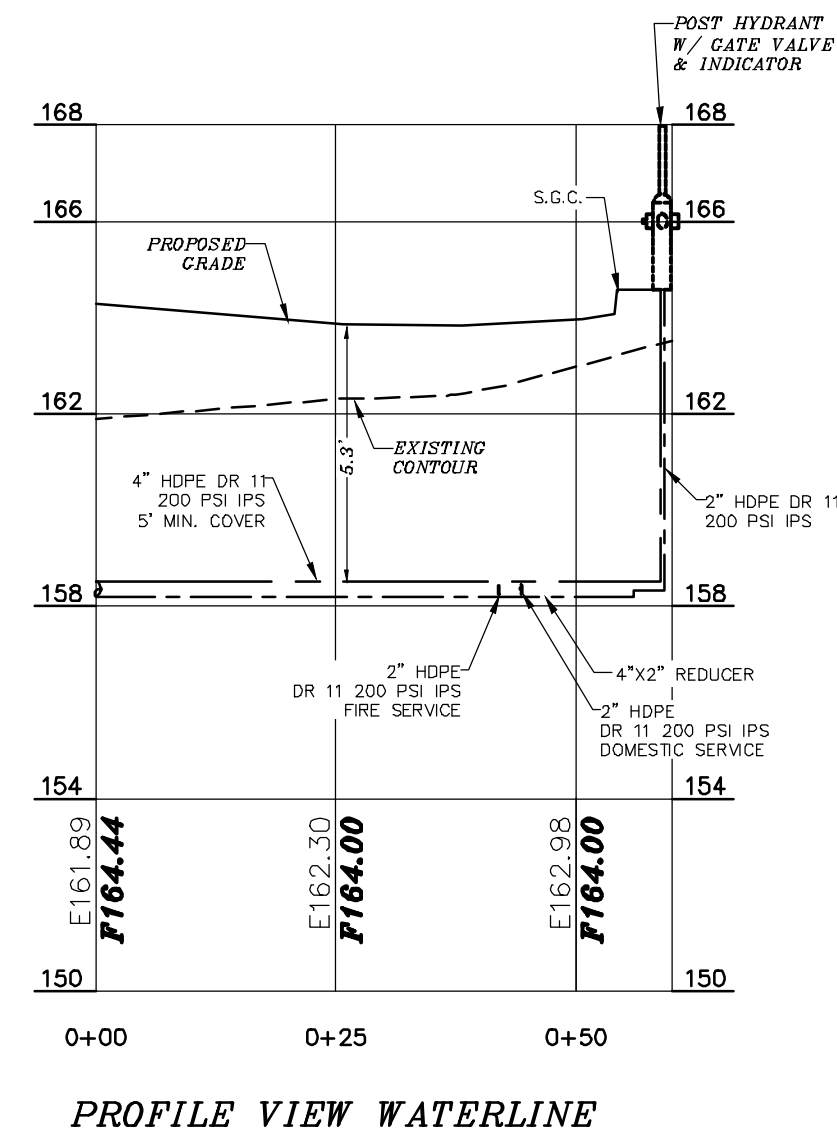
REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

UTILITY PLAN & PROFILE BRIDLE PATH WAY 0+00 TO END
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603) 332-2863
 SCALE: 1 IN. EQUALS 20 FT.
 DATE: AUGUST 16, 2023
 FILE NO.: DB 2021-163

KENNETH A. BERRY
 No. 14243
 PROFESSIONAL ENGINEER

SHEET 12 OF 31



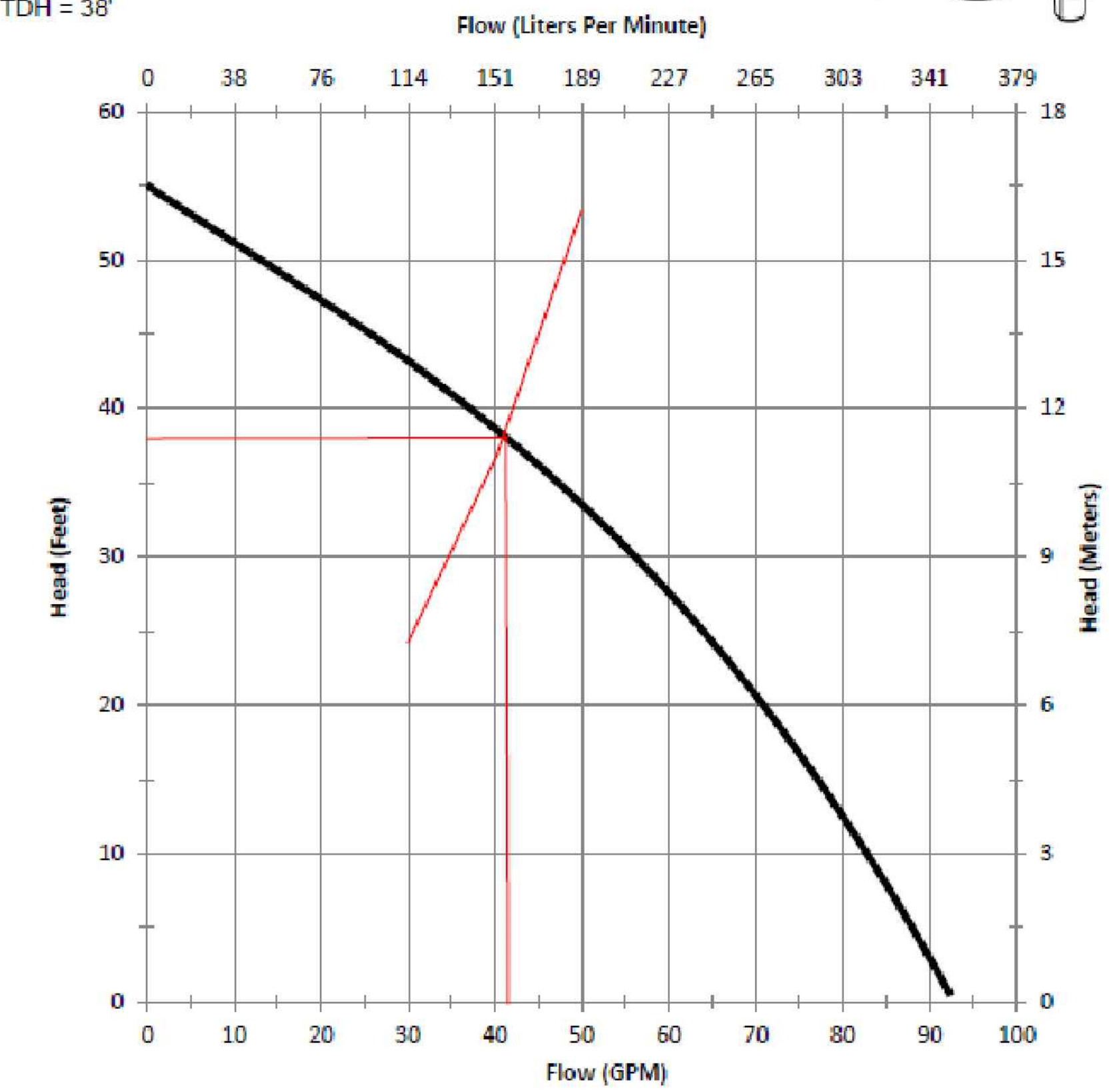
Liberty Pumps

Pump Specifications

FL50 Series 1/2 hp Submersible Effluent Pump



21-163 Bridal Path Way
 GPM = 41
 TDH = 38'

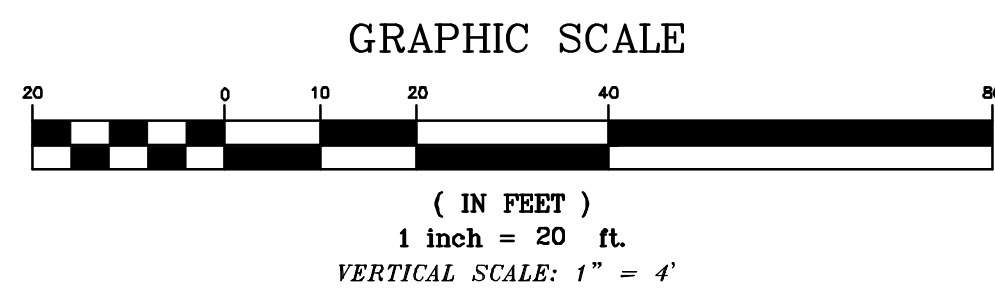


FL50_P1_E8/2017

©Copyright 2017 Liberty Pumps Inc. All rights reserved. Specifications subject to change without notice.



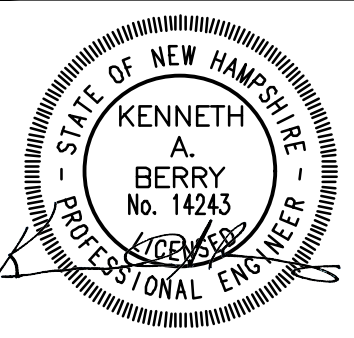
FL50 PUMP CURVE



REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

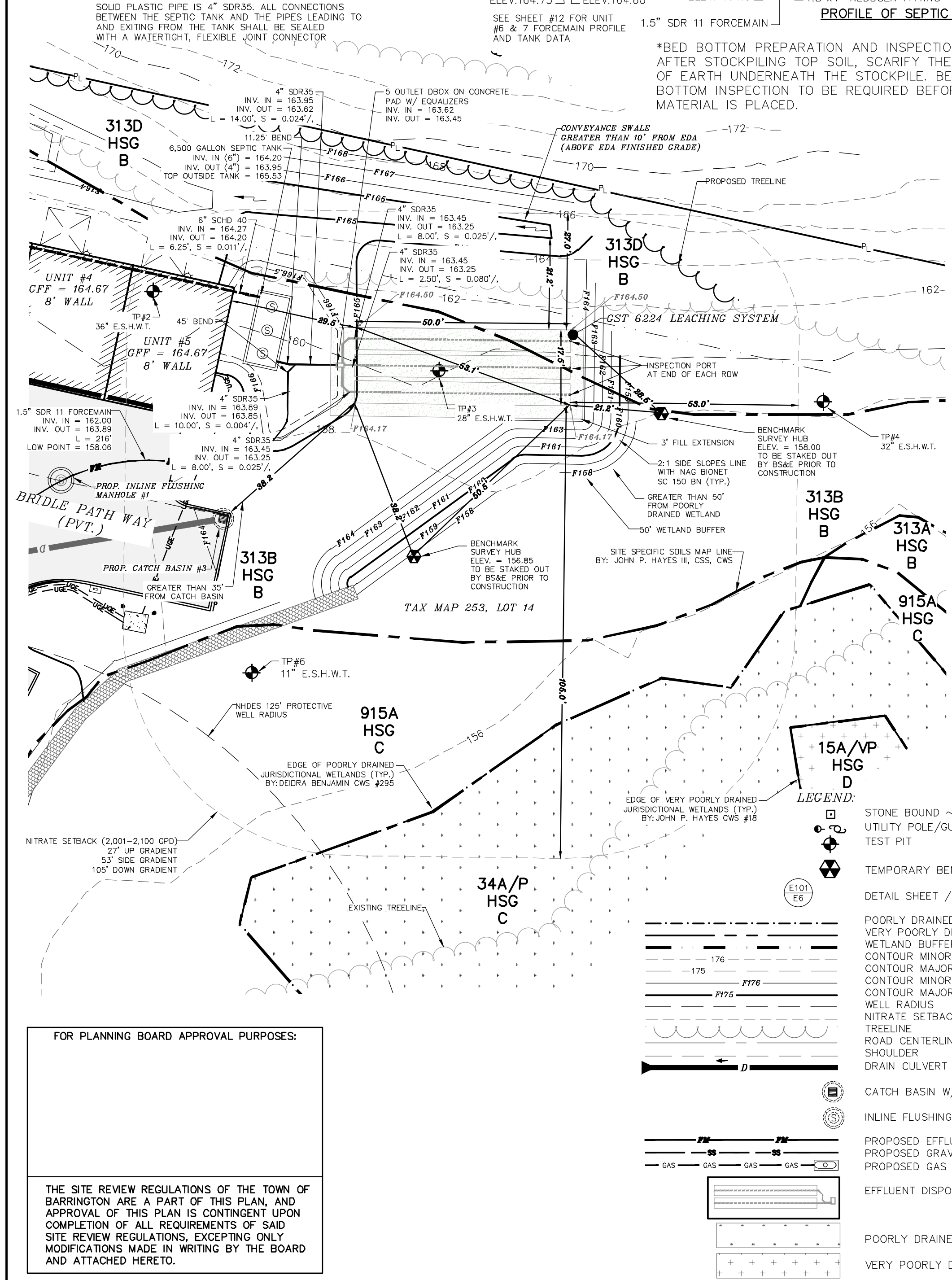
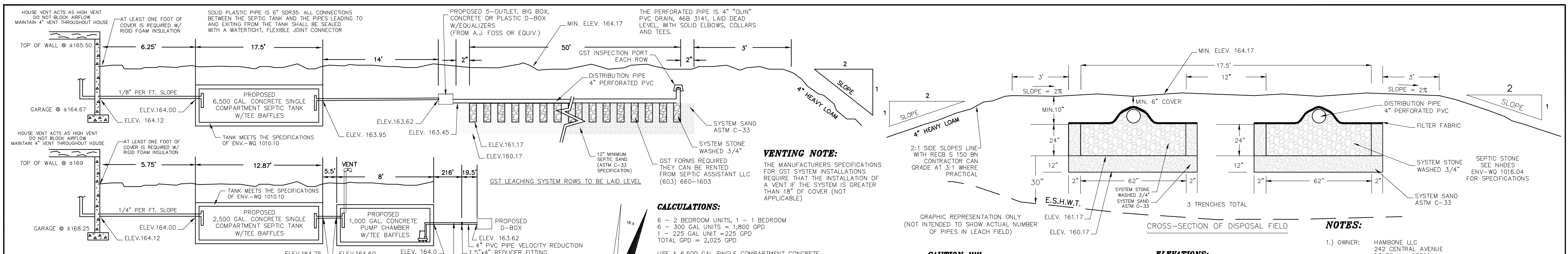
UTILITY PROFILES
 LAND OF
 HAMBONE LLC
 HAWKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : AUGUST 16, 2023
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FOR PLANNING BOARD APPROVAL PURPOSES:

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Total Lot Loading Area Deerfield (Sq. Ft.)	Total Lot Loading Area Wareham (Sq. Ft.)
48592	47,149
Total Area Deerfield (Sq. Ft.)	Total Area Wareham (Sq. Ft.)
62618	58,964
Total GPD Deerfield	Total GPD Wareham
1320	722
Total Lot Loading Area Udorthents (Sq. Ft.)	Total Lot Loading Area Scarborough (Sq. Ft.)
479	0
Total Area Udorthents (Sq. Ft.)	Total Area Scarborough (Sq. Ft.)
9161	196,977
Total GPD Udorthents	Total GPD Scarborough
13	0
Total Lot Loading Area Deerfield Variant (Sq. Ft.)	Total Lot Loading Area Windsor (Sq. Ft.)
7,567	11,341
Total Area Deerfield Variant (Sq. Ft.)	Total Area Windsor (Sq. Ft.)
16,655	11,341
Total GPD Deerfield Variant	Total GPD Windsor
240	521
Total Lot Loading Area Saugatuck (Sq. Ft.)	Total Lot Loading Area Parcel (Sq. Ft.)
231,077	346,205
Total Area Saugatuck (Sq. Ft.)	Total Area Parcel (Sq. Ft.)
231,077	586,793
Total GPD Saugatuck	Total GPD Subject Parcel
3,537	6,352

GST6224 NOTES

- WHEELED VEHICLES AND MACHINERY MUST BE KEPT OFF OWTS, UNLESS DESIGNED FOR H-20 LOADING.
- OWTS SHALL BE INSTALLED PER GST LEACHING SYSTEM - NEW HAMPSHIRE, DESIGN MANUAL DATED MAY 28, 2020.
- APPROVAL OF THIS PLAN ALLOWS CONSTRUCTION OF THE GST DESIGN ONLY. CONSTRUCTION OF A CONVENTIONAL SYSTEM REQUIRES:
 - A SEPARATE DESIGN.
 - SUBMISSION & APPROVAL.
- TYPE GST6224 FORMS ARE TO BE USED (62"W).
- INSTALLER TO SCHEDULE ALL INSTALLATIONS WITH FORM SUPPLIER A WEEK PRIOR TO SYSTEM INSTALL.
- THIS IS NOT DESIGNED FOR BACKWASH FROM A WATER CONDITIONER.
- ANY OWTS WITH MORE THAN 18" OF COVER MUST BE VENTED.
- SCARIFY SUB-SOIL IMMEDIATELY PRIOR TO PLACEMENT OF FILL.
- A SERIALIZED INSPECTION PORT - PN:IP0515 - IS REQUIRED ON EACH GST SYSTEM & EACH ROW IS TO HAVE INSPECTION PORT EXTENDED TO FINISHED GRADE (SEE PAGE(S) 7 & 17 OF MANUAL).
- FOR GST SYSTEMS UNDER DRIVEWAYS OR SUBJECT TO H-20 WHEEL LOADING CONDITIONS, SYSTEM MUST BE INSTALLED PER MANUFACTURERS REQUIREMENTS AS DESCRIBED IN THE MAY 28 2020 "DESIGN MANUAL". (A SUPPLEMENTAL DETAIL IS AVAILABLE UPON REQUEST, BUT IS NOT REQUIRED FOR NH-DES APPROVAL.)
- INSTALLER TO PLACE #5 X 12" REBAR (PROVIDED) NEXT TO INSPECTION PORT TO FACILITATE FUTURE LOCATING SHOULD INSPECTION CAP BECOME BURIED. DECAL PROVIDED SHALL BE PLACED ON STRUCTURE ELECTRICAL METER SOCKET OR EFFLUENT PUMP CONTROL PANEL IF ONE IS PRESENT, THIS IS TO IDENTIFY SYSTEM TYPE FOR FUTURE SYSTEM INSPECTION PURPOSES.
- PATENTED GST FORMS ARE AVAILABLE TO RENT FROM: SEPTIC ASSISTANT LLC 1-603-660-1603 181 GOULD RD - WEARE, NH 03281

CAUTION !!!
ANY DEVIATION FROM THIS PLAN IN GRADE OR LOCATION OF THE SEPTIC SYSTEM WHEN CONSTRUCTED WITHOUT THE APPROVAL OF THE DESIGNER AND NH-DES SUBSURFACE SYSTEMS BUREAU WILL RESULT IN THE FAILURE OF THE SYSTEM TO PASS INSPECTION BY NH-DES SUBSURFACE SYSTEMS BUREAU PRIOR TO OPERATION APPROVAL, OR FUNCTION PROPERLY AND SAFELY.

SOIL DATA :
313B - DEERFIELD LOAMY SAND, 3 TO 8% SLOPES, HSG B
313D - DEERFIELD LOAMY SAND, 15 TO 25% SLOPES, HSG B
SEE SITE SPECIFIC SOILS MAP

TEST PIT DATA:

TEST PIT #3

0-14	10YR 3/2 VERY DARK GRAYISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
14-22	10YR 5/6 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
22-28	10YR 5/4 YELLOWISH BROWN, LOAMY SAND, GRANULAR, FRIABLE
28-31	7.5YR 6/1 GRAY, LOAMY SAND WITH REDOX. FEATURES PRESENT, GRANULAR, FRIABLE
31-36	5YR 3/3 DARK REDDISH BROWN, LOAMY SAND WITH REDOX. FEATURES PRESENT, GRANULAR, FRIABLE
36-58	5Y 5/2 OLIVE GRAY, STRATIFIED VERY FINE SAND AND SILT WITH REDOX. FEATURES PRESENT, MASSIVE, FRIABLE
58-75	10YR 6/2 LIGHT BROWNISH GRAY, FINE SAND WITH REDOX. FEATURES PRESENT, GRANULAR, FRIABLE

E.S.H.W.T. @ 28"
RESTRICTIVE LAYER @ NONE
GROUND WATER @ 60"
TERMINATED @ 75"
REFUSAL @ NONE

POORLY DRAINED WETLAND DELINEATION NOTE
WETLANDS WERE DELINEATED BY DEIDRA BENJAMIN, IN JUNE 2022 AND AUGUST 2023 UTILIZING THE FOLLOWING STANDARDS:
1. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
2. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, (VERSION 8.0) UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
3. NATIONAL WETLAND PLANT LIST (CURRENT VERSION).

VERY POORLY DRAINED WETLAND DELINEATION NOTE:
WETLANDS WERE DELINEATED BY JOHN P. HAYES, CWS, IN THE SUMMER OF 2022 USING THE FOLLOWING CRITERIA:
1. USACE, REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, U.S. ARMY CORPS OF ENGINEERS AND DEVELOPMENT CENTER, 2012, VICKSBURG, MS.
2. USACE, CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, ENVIRONMENTAL LABORATORY, 1987, VICKSBURG, MS.
3. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2018, FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, L.M. VASILAS, G.W. HURT, AND J.F. BERKOWITZ (EDS), USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
4. NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, 2019, LOWELL, MA.
5. U.S. ARMY CORPS OF ENGINEERS 2019, NATIONAL WETLAND PLANT LIST, VERSION 3.3, [HTTP://WETLAND-PLANTS.USACE.ARMY.MIL/](http://wetland-plants.usace.army.mil/)

DEIDRA BENJAMIN, CWS #295
JOHN P. HAYES, III CWS #18
JOHN P. HAYES III, CSS #87
CHRISTOPHER R. BERRY NH PERMITTED DESIGNER #1886

REVISION

#	DATE	REVISION PER RFI	REVISION PER CMA ENGINEERS REVIEW
1	11-13-23		
2	11-8-23		

DESCRIPTION

PROPOSED GST 6224 LEACHING SYSTEM SEPTIC SYSTEM FOR HAMBONE, LLC 49 WINKLEY POND ROAD BARRINGTON, N.H. TAX MAP 253, LOT 14

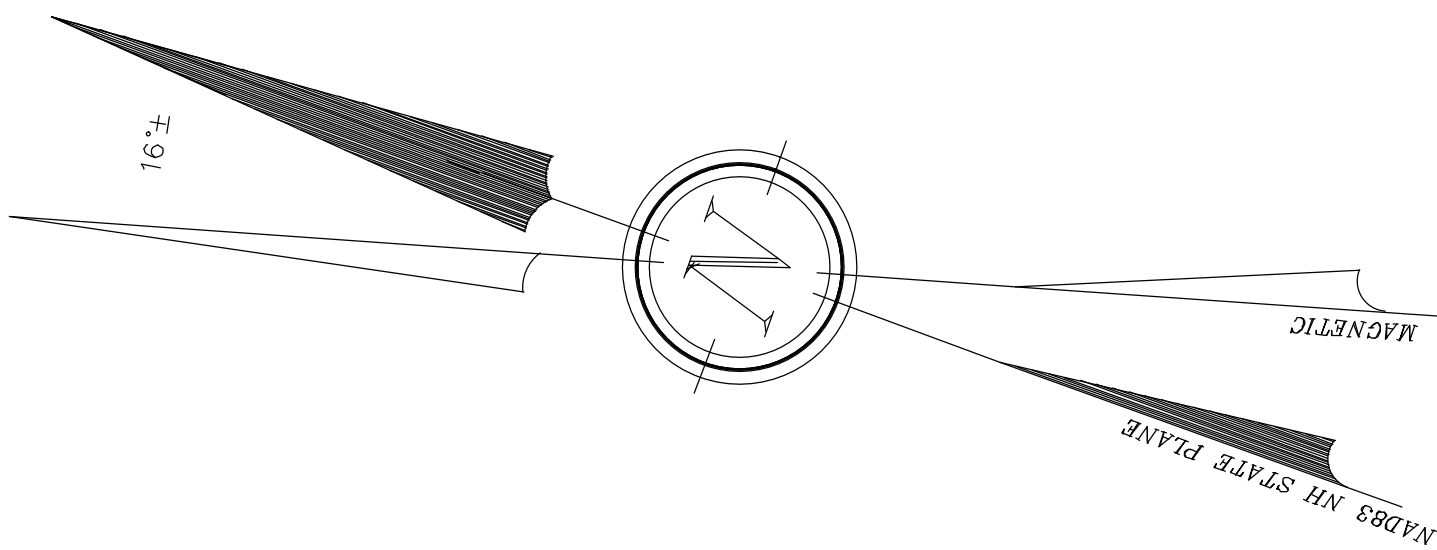
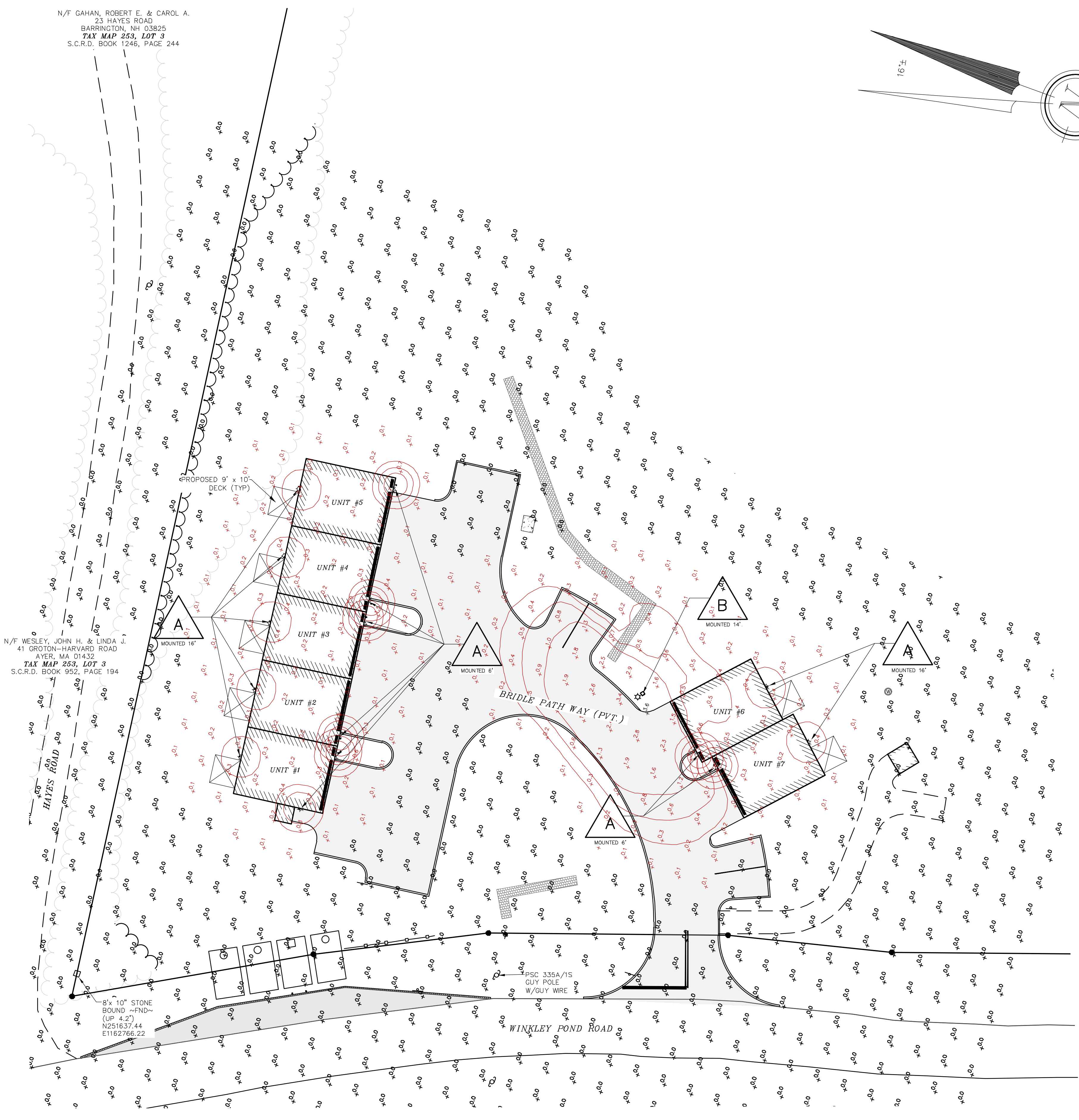
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT RD. BARRINGTON, N.H. 332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : FEBRUARY 15, 2023
FILE NO. : DB 2021-163

LOCUS MAP
BARRINGTON, N.H. (NOT TO SCALE)

N/F GAHAN, ROBERT E. & CAROL A.
 23 HAYES ROAD
 BARRINGTON, NH 03825
 TAX MAP 253, LOT 3
 S.C.R.D. BOOK 1246, PAGE 244

N/F WESLEY, JOHN H. & LINDA J.
 41 GROTON-HARVARD ROAD
 AYER, MA 01432
 TAX MAP 253, LOT 3
 S.C.R.D. BOOK 952, PAGE 194

8"x10" STONE BOUND ~FND~
 (UP 4.2)
 N251637.44
 E1162766.22



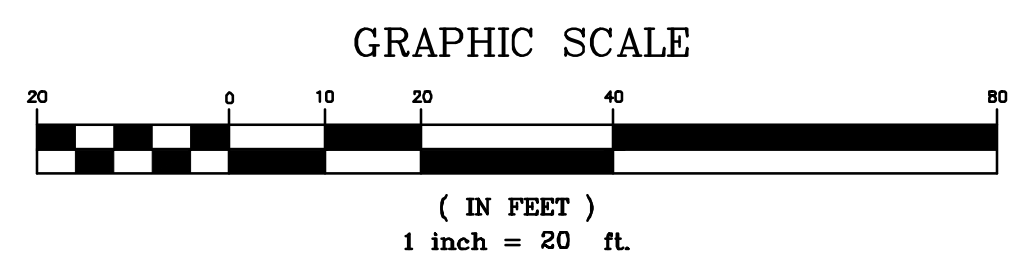
- NOTES:**
- 1.) OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
 - 2.) TAX MAP: TAX MAP 253, LOT 14
 - 3.) LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
 - 4.) S.C.R.D. BOOK 4976, PAGE 1023
 - 5.) THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED LIGHTING DESIGN.
 - 6.) LAMP "A" IS MOUNTED 6' HIGH ON THE FRONT SIDE OF THE BUILDINGS AND 16' HIGH ON THE BACK SIDE OF THE BUILDINGS. LAMP "B" IS POLE MOUNTED AT 14' HIGH.
 - 7.) SEE CONSTRUCTION DETAILS FOR LIGHT CUT SHEETS.
 - 8.) EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES PER THE TOWN OF BARRINGTON SITE REVIEW REGULATIONS AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.

- LEGEND:**
- 8"x10" STONE BOUND ~FND~
 - UTILITY POLE
 - △ LIGHT TYPE "A" MOUNTED ON BUILDING
 - LIGHT TYPE "B" MOUNTED ON POLE
 - SIGNAGE
 - ~ EXISTING TREELINE
 - ~ PROPOSED TREELINE
 - ⊙ PROPOSED WELL

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
△	A		15	Lithonia Lighting	ODS10 SRC	CRAFTSTON WALL MOUNTED SMALL DECORATIVE LANTERN, ONE LAMP 13W SPIRAL COMPACT FLUORESCENT, WHITE GLASS DIFFUSER 4.2" DIA. X 6.6" HIGH, ELECTRONIC BALLAST	1	900	1	12.6
□	B		1	Lithonia Lighting	DSX1 LED P1 30K TSM MVLDT	DSX1 LED P1 30K TSM MVLDT	1	6279	1	94

FOR PLANNING BOARD APPROVAL PURPOSES:

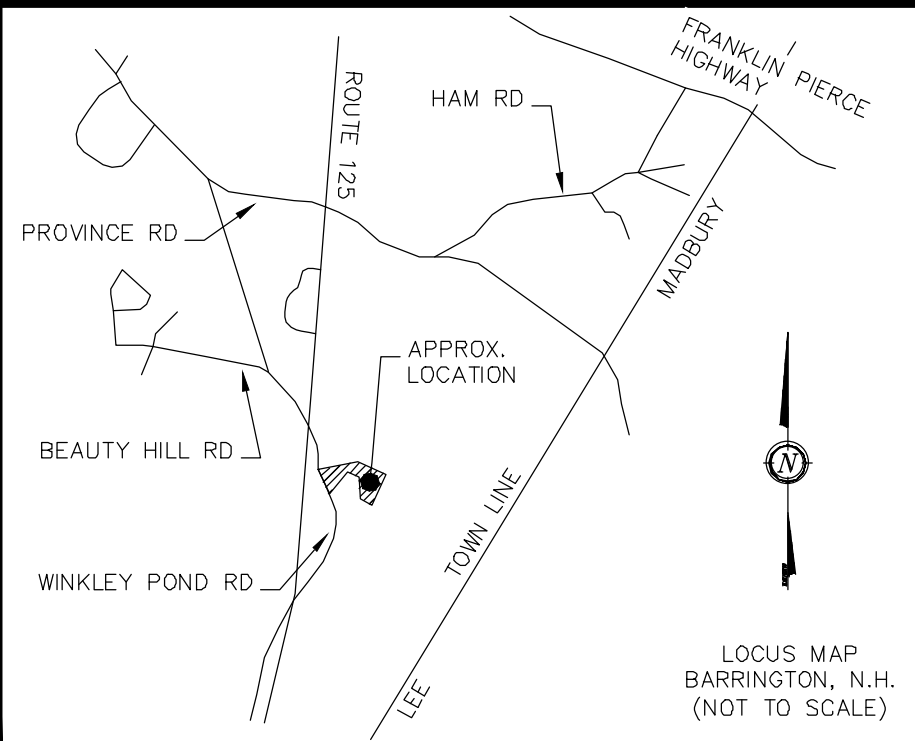
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#	REVISION	DATE	DESCRIPTION
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LIGHTING PLAN
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : AUGUST 16, 2023
 FILE NO. : DB 2021-163



PLANTING SCHEDULE
Bridle Path Way
Botanical Name/ Common Name

Trees	Size	Qty	Label
<i>Plantanus acerifolia</i> / London Planetree	3" Cal.	14	PA
<i>Acer Rubrum</i> / Red maple	3" Cal.	17	AR
<i>Picea glauca</i> / White Spruce	3" Cal.	11	WS

Shrubs	Size	Qty	Label
<i>Prunus pumila</i> / Sand Cherry	3 Gal.	56	PP
<i>Vaccinium corymbosum</i> / High Bush Blueberry	2 Gal.	80	VC
<i>Syringa patula</i> 'Miss Kim' / Miss Kim Lilac	3 Gal.	31	MK

Perennials	Size	Qty	Label
<i>Geranium sanguineum</i> 'New Hampshire Purple' / Cranesbill	#1	34	CB
<i>Hemerocallis</i> 'Happy Returns' / Happy Returns Daylily	#1	37	SD
<i>Astilbe x arendsii</i> 'Bridal Veil' / Bridal Veil Astilbe	#1	36	AF

Grasses	Size	Qty	Label
<i>Calamagrostis acutifolia</i> 'Karl Foerster' / Feather Reed Grass	#2	39	KF

General Plant Maintenance Guide

- General Plant Bed Maintenance:**
- All plant maintenance should be performed by a qualified horticulturalist or licensed arborist. Cleaning the dead material out of the planting bed in the fall helps keep litter from building up around the plants and in some cases killing the plants. Watering the first year during dry periods will help get the plants established. Mulching every year is not necessary. Raking the old mulch and turning it over is all that is needed. When necessary only install one inch of mulch and do not place the mulch closer than 3" to the trunks or stems of woody plants.
- Trees**
- The first year watering during dry periods will be necessary.
 - 3" inches of mulch may be used. The mulch should be kept 3 inches from the trunk.
 - Fertilizing is not necessary for the first year. Fertilizing in subsequent years only when and if the foliage is looking weak.
 - Fertilization should occur prior to Mat 31st or after trees have dropped their leaves for the year.
 - Prune dead wood once a year.
 - Depending on the amount of compaction the bed area receives, deep root aeration may be needed over time.
- Woody Shrubs**
- The first year watering during dry periods will be necessary.
 - 3" inches of mulch may be used. The mulch should be kept 3 inches from the stems.
 - Fertilizing is not necessary for the first year. Fertilizing in subsequent years only when and if the foliage is looking weak.
 - Fertilization should occur prior to Mat 31st or after shrubs have dropped their leaves or gone dormant for the year.
 - Prune dead wood once a year.
- Grasses**
- Grasses only need to be clipped back at the end of the growing season and all the clippings removed from the area.
 - Do not over mulch. Too much mulch will prohibit the grass from developing into a strong clump.
- Perennials**
- All perennials need to be pruned back after the first or second hard frost. A two-step method; first dead head all the flower heads and let drop to the ground for re-seeding. Second cut the stems back to 3" above the ground and remove the stem and leaf litter and place in compost. Do not over mulch. Too much mulch will prohibit the growth and development.
 - Fertilizing perennials once in the spring with a low phosphate fertilizer will help the plants to get started in the spring.

- NOTES:**
- OWNER: HAMBONE LLC
242 CENTRAL AVENUE
DOVER, NH 03820
 - TAX MAP: TAX MAP 253, LOT 14
 - LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
 - S.C.R.D. BOOK 4976, PAGE 1023
 - THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED LANDSCAPING PLAN FOR TAX MAP 253, LOT 14.

LEGEND:

TREES:

- AR - RED MAPLE TREE
- PA - LONDON PLANETREE
- WS - WHITE SPRUCE

BUSHES:

- PP - SAND CHERRY
- VC - HIGH BUSH BLUEBERRY
- MK - MISS KIM LILAC

PERENNIALS:

- CB - CRANESBILL
- SD - HAPPY RETURNS DAYLILY
- AF - BRIDAL VEIL ASTILBE

GRASSES:

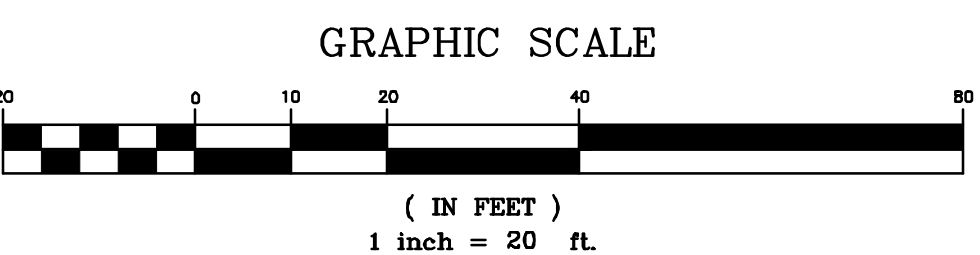
- KF - FEATHER REED GRASS

LEGEND:

- 8"x10" STONE BOUND ~FND~
- UTILITY POLE
- LIGHT TYPE "A" MOUNTED ON BUILDING SIGNAGE
- SHOULDER
- BUILDING SETBACK LINE
- POORLY DRAINED JURISDICTIONAL WETLAND
- VERY POORLY DRAINED JURISDICTIONAL WETLAND
- 50' WETLAND BUFFER
- PROPOSED WELL
- TRANSFORMER
- POORLY DRAINED JURISDICTIONAL WETLAND HATCH
- VERY POORLY DRAINED JURISDICTIONAL WETLAND HATCH

FOR PLANNING BOARD APPROVAL PURPOSES:

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N/F GAHAN, ROBERT E. & CAROL A.
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BARRINGTON, NH 03825
TAX MAP 253, LOT 3
S.C.R.D. BOOK 1246, PAGE 244

N/F WESLEY, JOHN H. & LINDA J.
41 GROTON-HARVARD ROAD
AYER, MA 01432
TAX MAP 253, LOT 3
S.C.R.D. BOOK 952, PAGE 194

8" x 10" STONE BOUND ~FND~
(UP 4.2")
N251837.44
E1162766.22

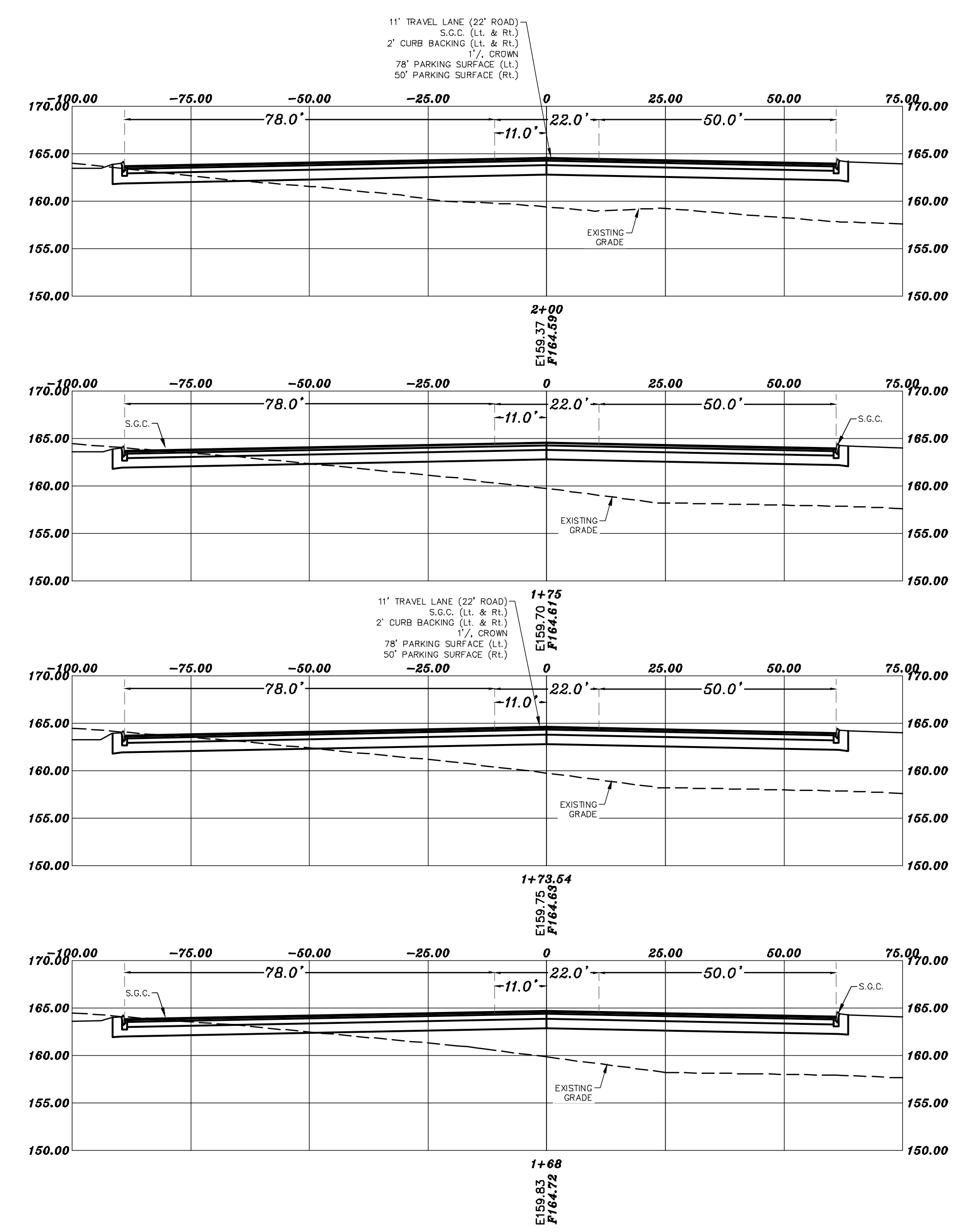
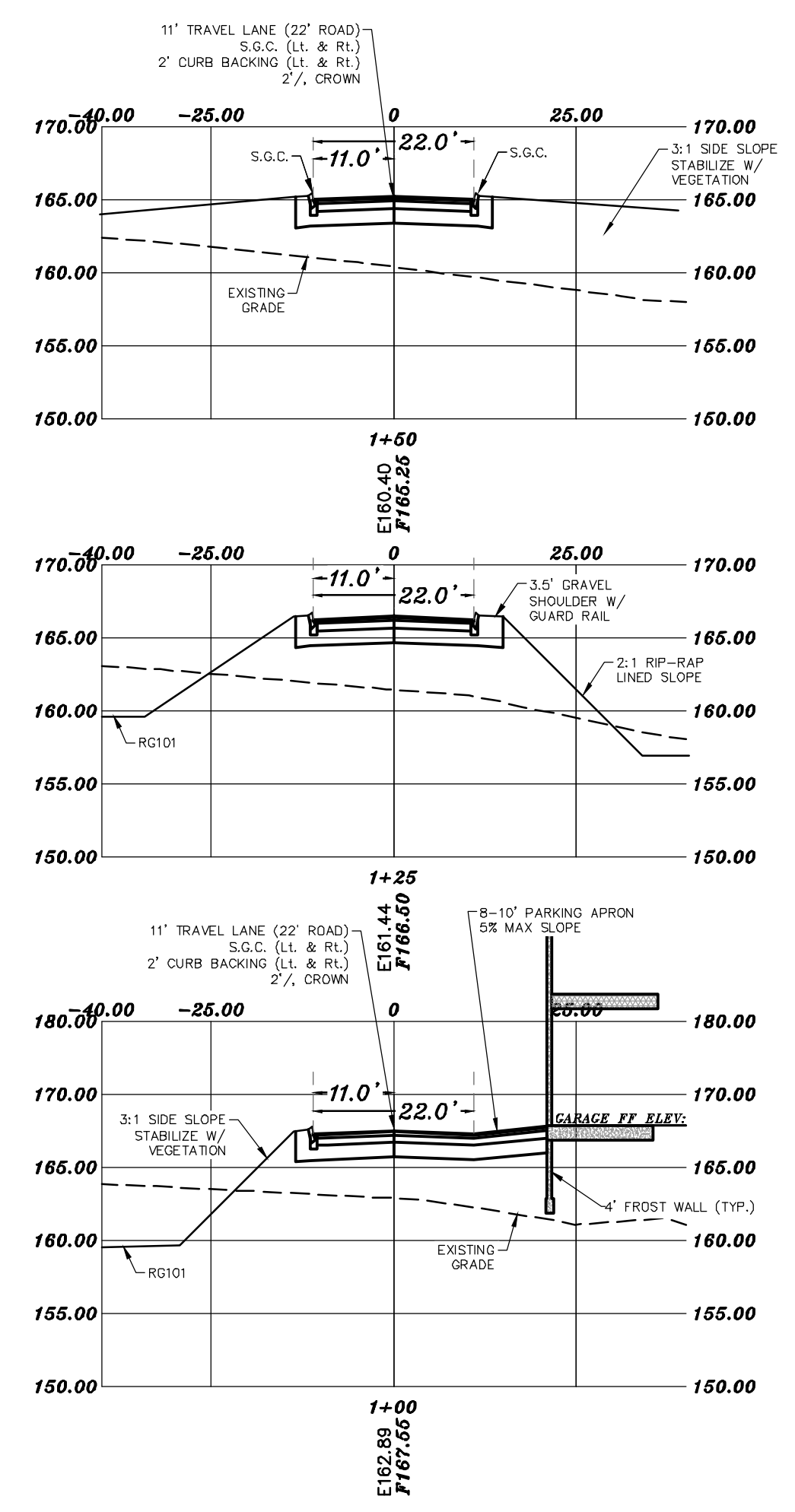
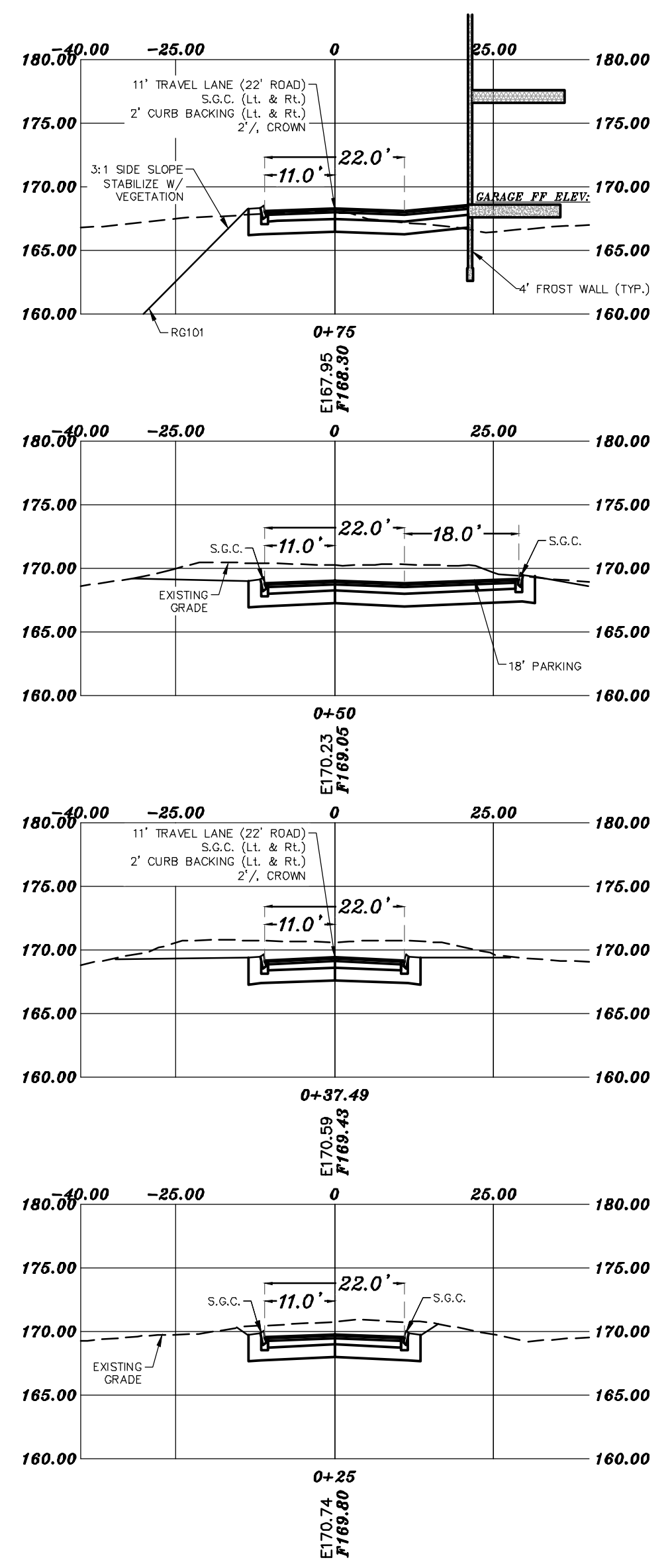
PLANTINGS IN THE 50' BUFFER:
VC (46)
PA (10)
AR (11)

www.terrainplanning.com 311 last hill road hopkinton nh 03229 T:603-491-2322

#	REVISION	DATE	DESCRIPTION
#1	11-8-23		REVISED PER CMA ENGINEERS REVIEW

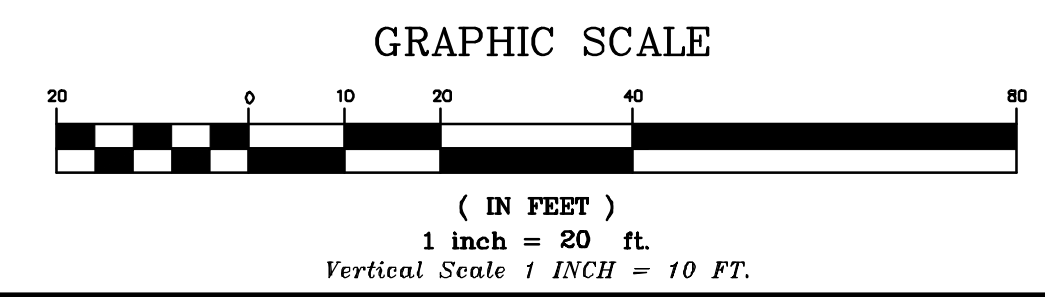
LANDSCAPING PLAN
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
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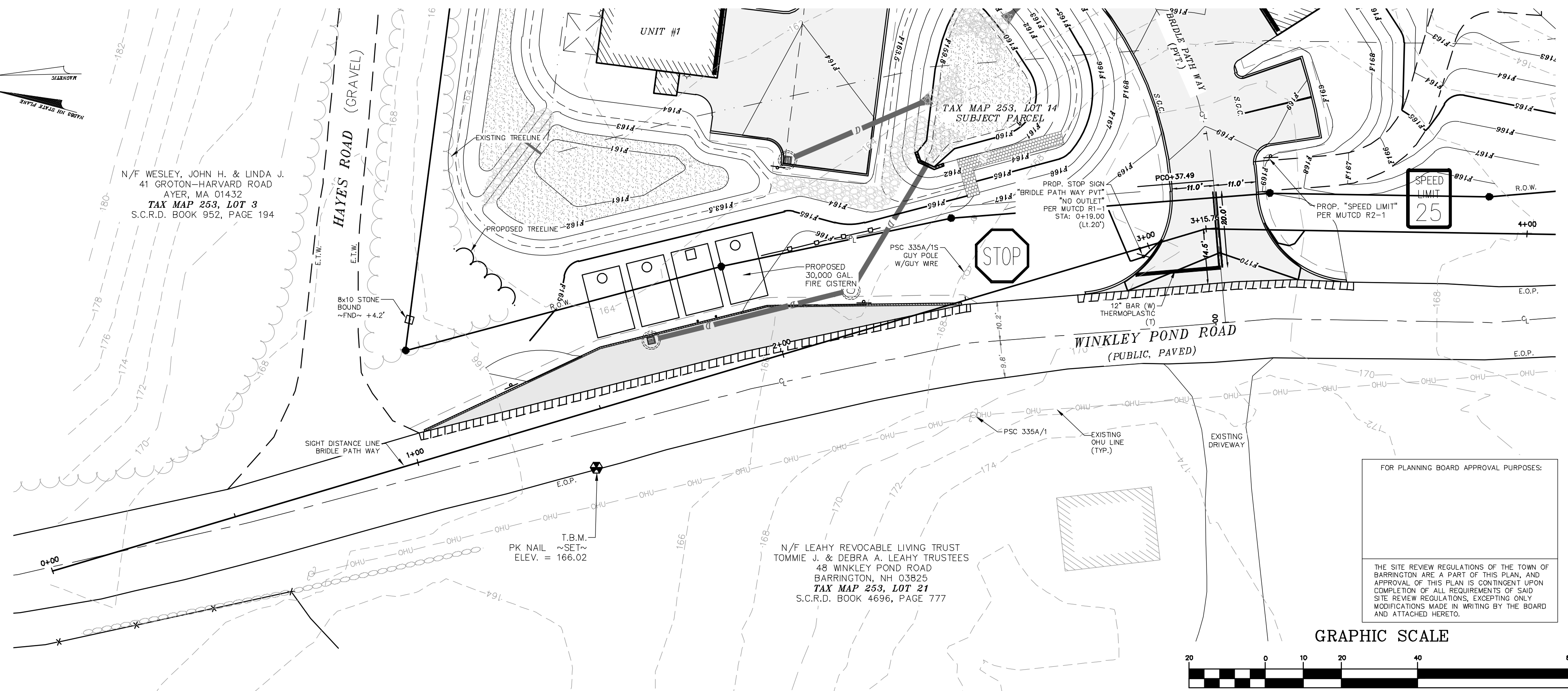
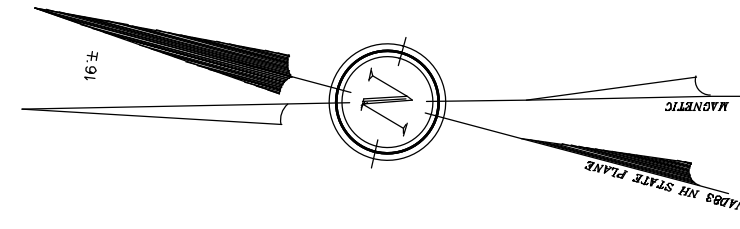
REVISION	DATE	DESCRIPTION
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CROSS SECTIONS BRIDLE PATH WAY 0+00 - END
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

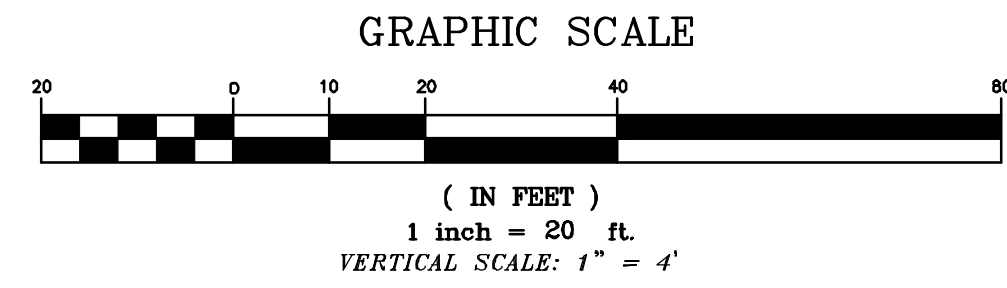
BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : AUGUST 16, 2023
 FILE NO. : DB 2021-163

NOTES:

- OWNER: HAMBONE LLC
242 CENTRAL AVE
DOVER, NH 03820
- TAX MAP: TAX MAP 253, LOT 14
- LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
330,912 Sq.Ft., 7.60 Ac., TOTAL UPLAND
- S.C.R.D. BOOK 4976, PAGE 1023
- THIS IS A RESIDENTIAL SITE PLAN.
- THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE AVAILABLE SIGHT DISTANCE FROM THE PROPOSED ROADWAY KNOWN AS BRIDLE PATH WAY LOOKING NORTH BOUND.
- EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE. EXISTING CONTOURS ARE PROVIDED AT 2' INTERVALS AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC.
- ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM PLACED AND SEEDED. THE LOAM SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
- ALL PAVEMENT MARKINGS TO BE PAINTED TO NHDOT STANDARD NO. PM-9.
- THE SPEED LIMIT ON WINKLEY POND ROAD IS 30 MPH.



PLAN VIEW WINKLEY POND RD - NORTH



SIGHT DISTANCE REQUIREMENT:

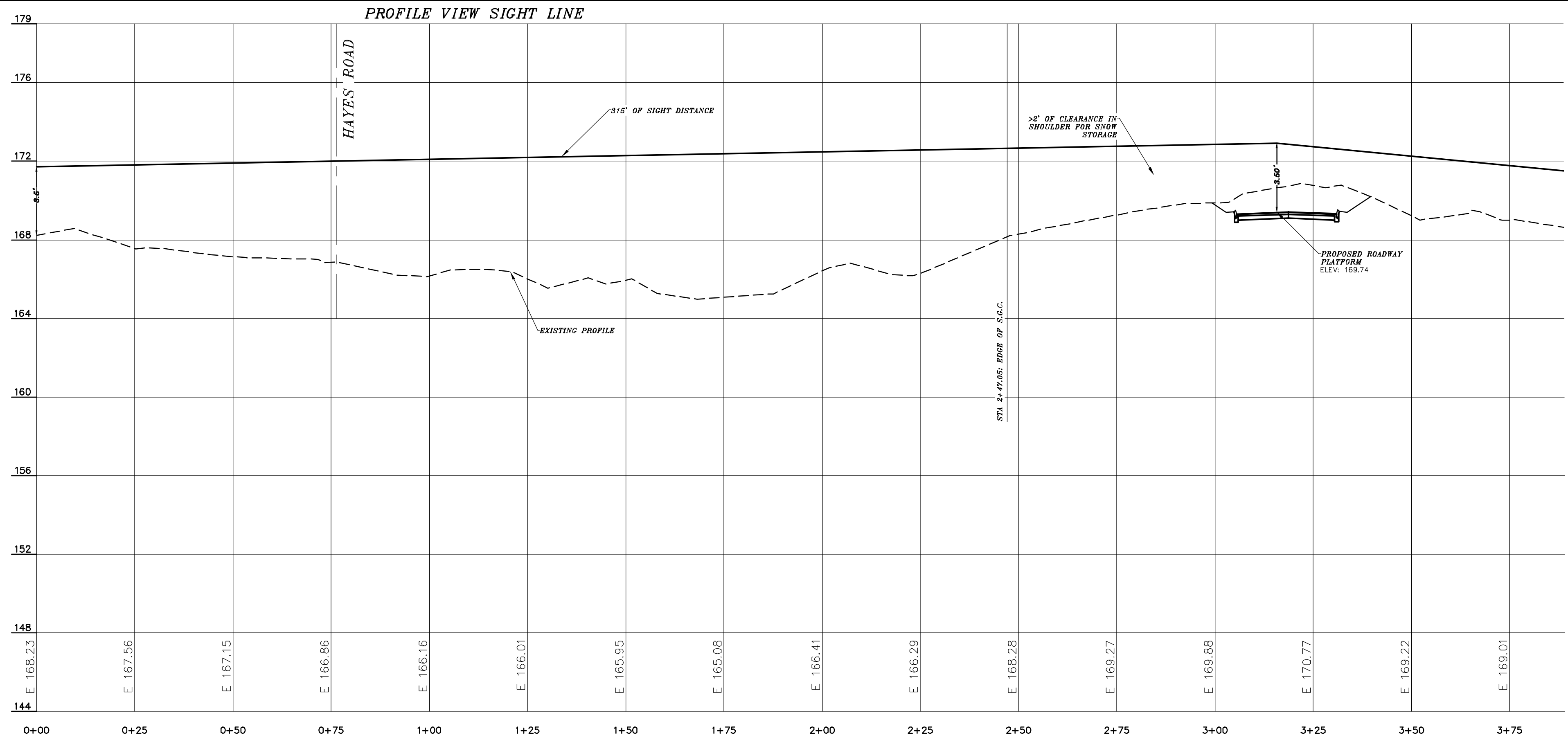
DESIGN SPEED: 30 MPH / 85TH ASSUMED 40 MPH
 FROM AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011) EXHIBIT 3.1
 278' 6% UP GRADE, 289' 3% UP GRADE REQUIRED BY AASHTO
 300' REQUIRED BY THE TOWN OF BARRINGTON
 315' NORTH BOUND AND 450' SOUTH BOUND PROVIDED
 SEE WAIVER REQUEST FOR "VERTEX OF SIGHT LINE LOCATION REQUIREMENT".

PM-9 GENERAL NOTES

- EDGE LINE DETAILS ARE SHOWN FOR MAINLINE ROADWAYS WITHOUT TURN LANE. THE PRESENCE OF TURN LANES MAY REQUIRE DIFFERENT EDGE LINE TREATMENTS.
- EDGE LINES ON THE SIDE ROADS, WHEN CALLED FOR, SHALL FOLLOW THE ABOVE MAINLINE TYPICALS. EDGE LINES SHALL NOT BE CONTINUOUS AROUND THE MAINLINE/SIDE ROAD RADIUS. EDGE LINES SHALL END AT STOP BARS.
- CENTERLINE AND EDGE LINE SHALL BE CONTINUOUS PAST RESIDENTIAL DRIVEWAYS. CENTERLINE AND EDGE LINE SHALL BREAK FOR COMMERCIAL DRIVES W/TRAFFIC CONTROLS, MINOR SIDE ROADS, OR PRIVATE INTERSECTIONS.
- LOCATION OF THE STOP LINE MAY VARY DUE TO INTERSECTION SIGHT DISTANCE AND VEHICLE TURNING RADIUS AND MAY NOT ALWAYS COINCIDE WITH THE LOCATION OF THE STOP SIGN.
- IF THERE IS NO EDGE LINE, END STOP BAR 12" FROM EDGE OF PAVEMENT.
- STOP BARS, WORDS, LANE LINES, SYMBOLS AND ARROWS SHALL BE THERMOPLASTIC (T).

LEGEND:

- 8"x10" STONE BOUND ~FND~
- SIGNAGE
- UTILITY POLE
- GUY WIRE
- OHU- OVERHEAD UTILITIES LINE
- SHOULDER
- CENTER LINE
- SIGHT DISTANCE LINE
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND
- PL PROPERTY LINE
- CL CENTER LINE
- R.O.W. RIGHT OF WAY
- E.O.P. EDGE OF PAVEMENT
- S.G.C. SLOPED GRANITE CURB
- E.T.W. EDGE OF TRAVEL WAY

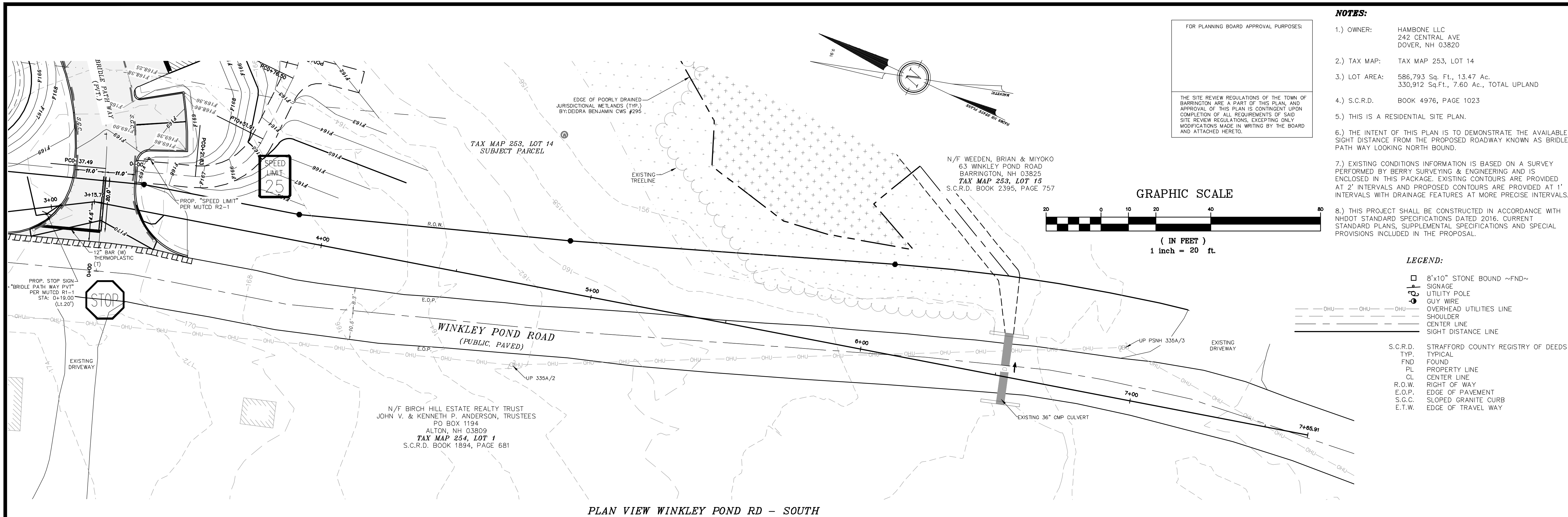


SD-1

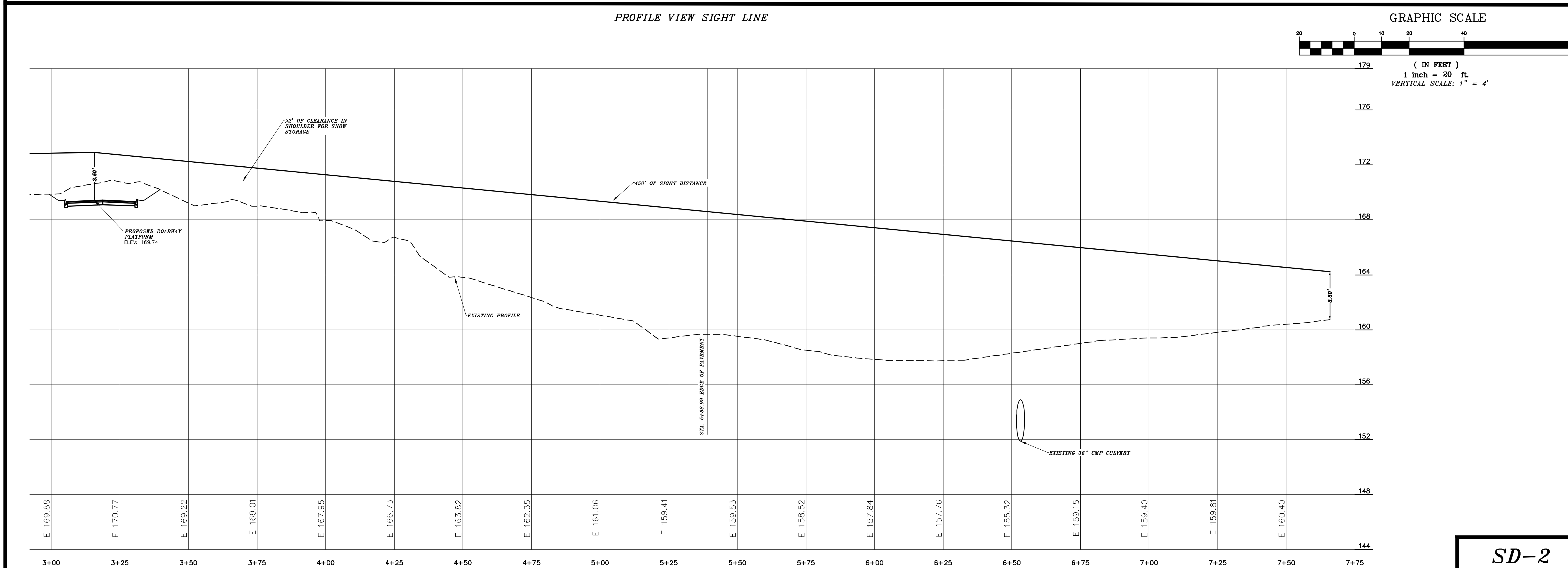
REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

SIGHT DISTANCE PLAN BRIDLE PATH WAY NORTHBOUND
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : AUGUST 16, 2023
 FILE NO. : DB 2021-163



PLAN VIEW WINKLEY POND RD - SOUTH



PROFILE VIEW SIGHT LINE

- NOTES:**
- 1.) OWNER: HAMBONE LLC
242 CENTRAL AVE
DOVER, NH 03820
 - 2.) TAX MAP: TAX MAP 253, LOT 14
 - 3.) LOT AREA: 586,793 Sq. Ft., 13.47 Ac.
330,912 Sq.Ft., 7.60 Ac., TOTAL UPLAND
 - 4.) S.C.R.D. BOOK 4976, PAGE 1023
 - 5.) THIS IS A RESIDENTIAL SITE PLAN.
 - 6.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE AVAILABLE SIGHT DISTANCE FROM THE PROPOSED ROADWAY KNOWN AS BRIDLE PATH WAY LOOKING NORTH BOUND.
 - 7.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE. EXISTING CONTOURS ARE PROVIDED AT 2' INTERVALS AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.
 - 8.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

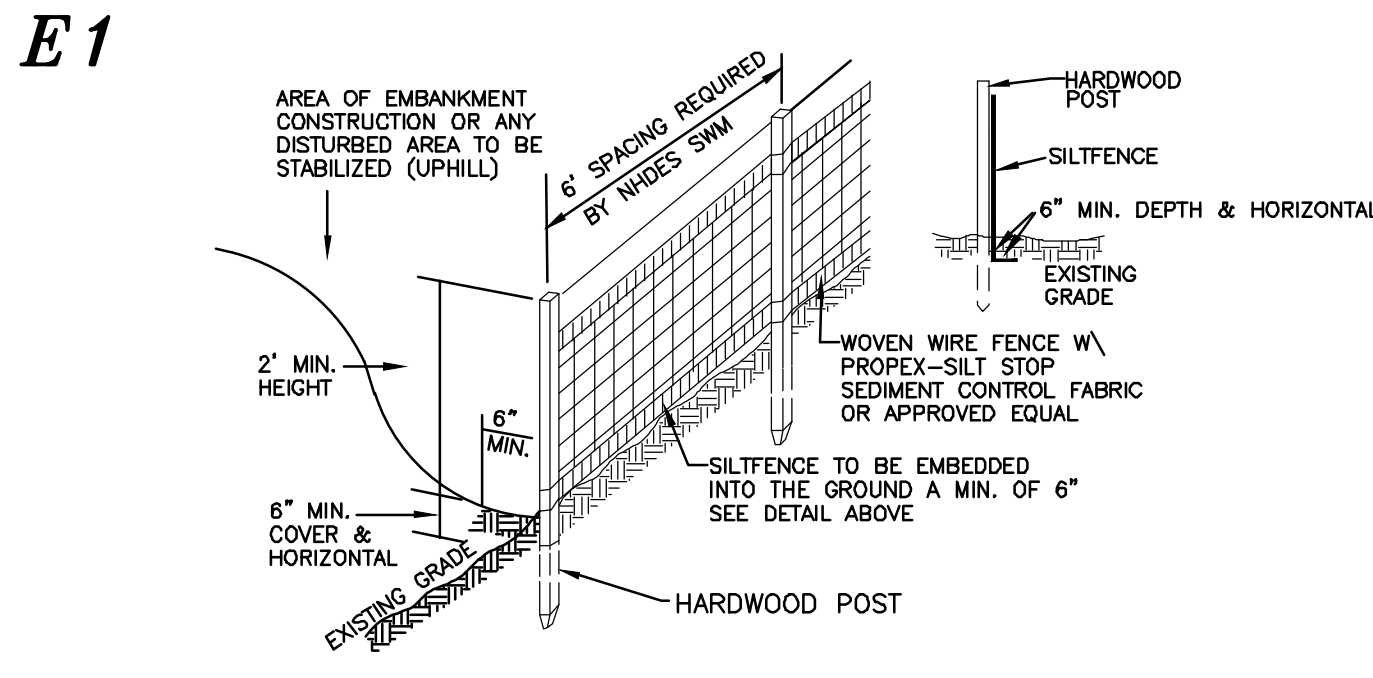
- LEGEND:**
- 8'x10" STONE BOUND ~FND~ SIGNAGE
 - UTILITY POLE
 - GUY WIRE
 - OVERHEAD UTILITIES LINE
 - SHOULDER
 - CENTER LINE
 - SIGHT DISTANCE LINE
 - S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
 - TYP. TYPICAL
 - FND FOUND
 - PL PROPERTY LINE
 - CL CENTER LINE
 - R.O.W. RIGHT OF WAY
 - E.O.P. EDGE OF PAVEMENT
 - S.G.C. SLOPED GRANITE CURB
 - E.T.W. EDGE OF TRAVEL WAY

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

SIGHT DISTANCE PLAN BRIDLE PATH WAY - SOUTHBOUND
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

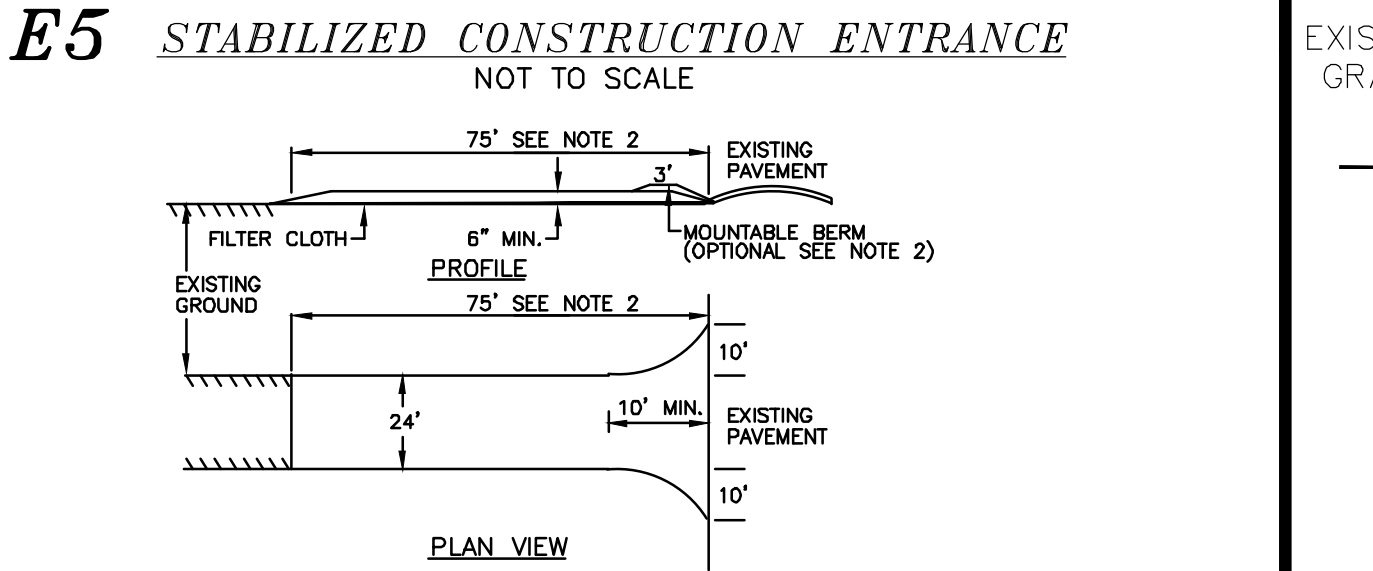
BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
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SD-2

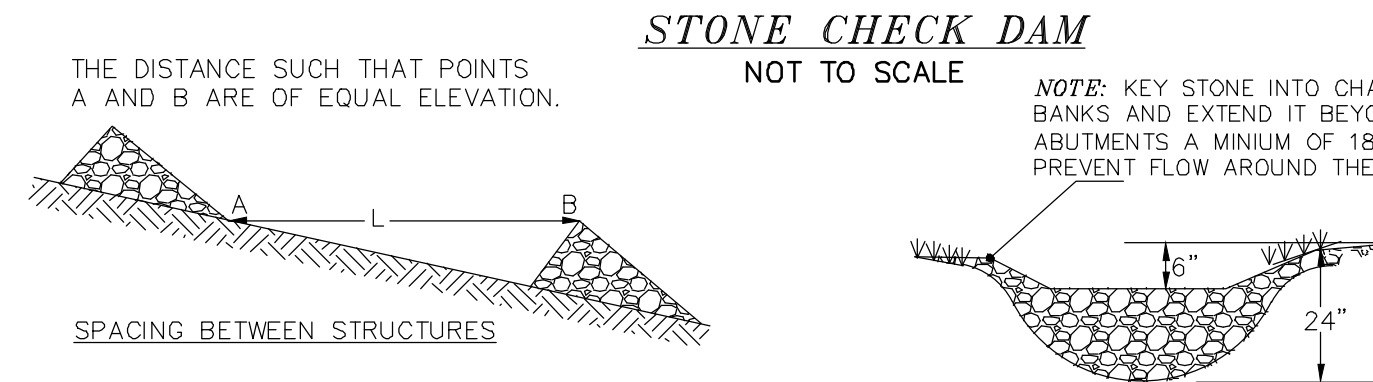


- SILT FENCE CONSTRUCTION SPECIFICATIONS**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 6' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW, REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
 - PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
 - SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
 - THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
 - TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.

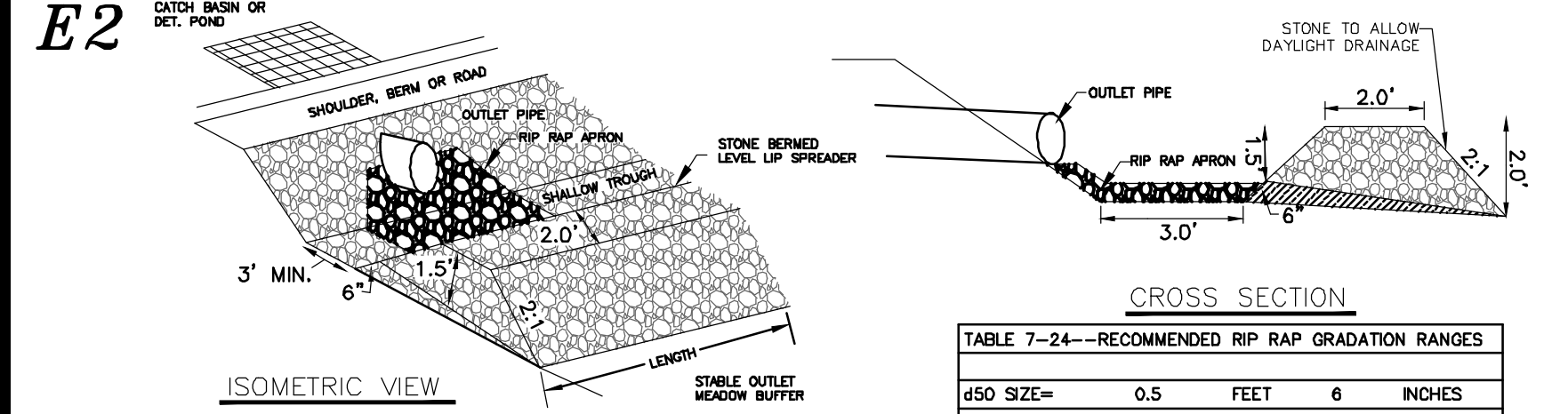
- SILT FENCE MAINTENANCE**
- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 - IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
 - SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.
- SILT FENCE DETAIL**
NOT TO SCALE



- STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH ANGULAR STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
- THE THICKNESS OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
- 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.
- 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.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.



- CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
- THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THAN ONE ACRE.
- THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
- THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.
- THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.
- CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.
- TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

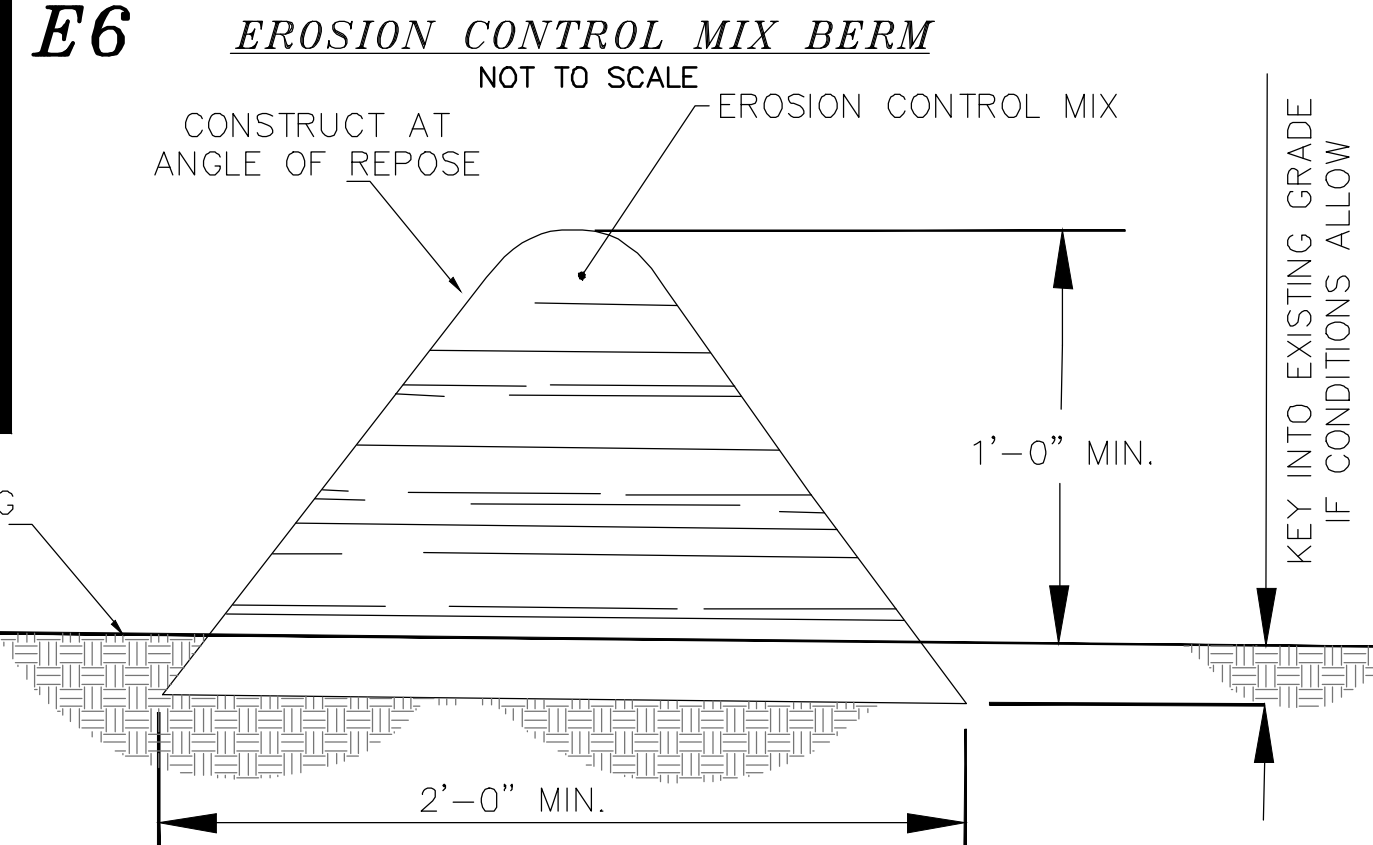


CROSS SECTION

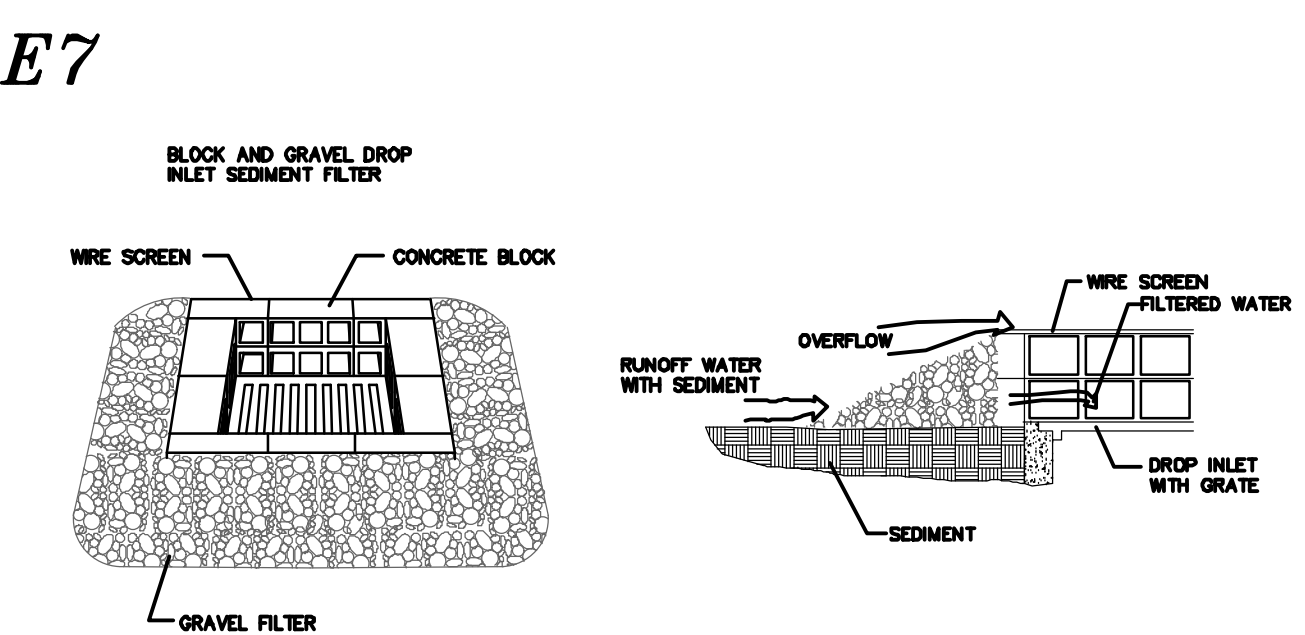
TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE=	0.5 FEET	6 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

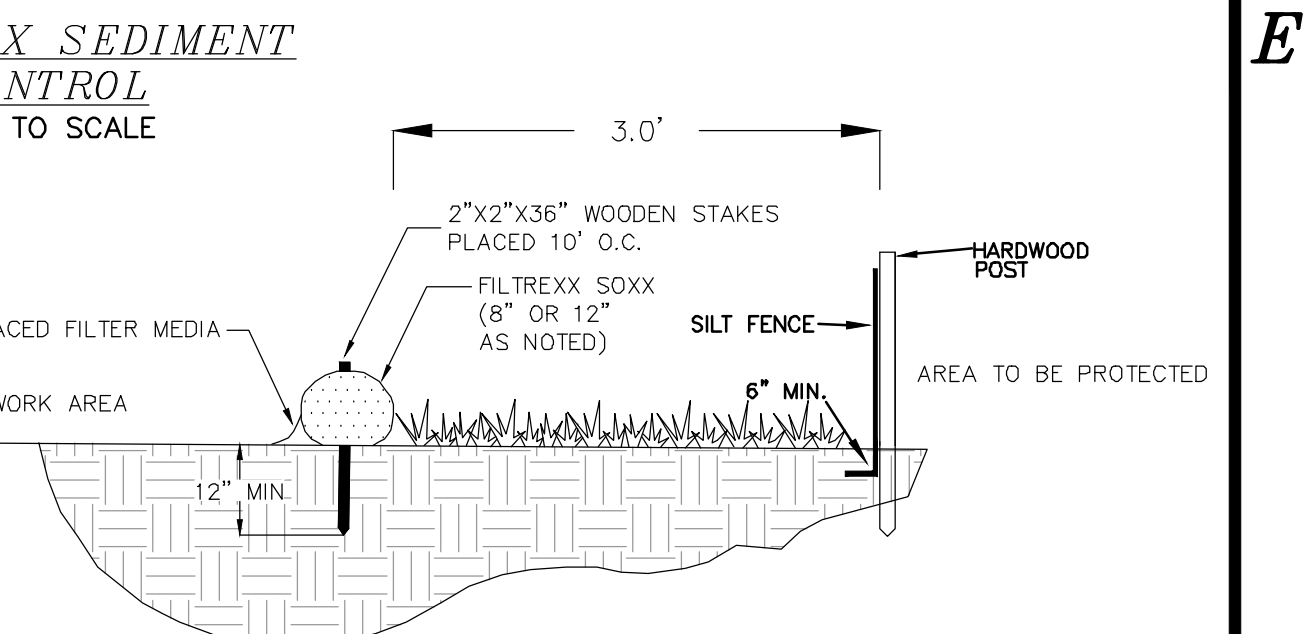
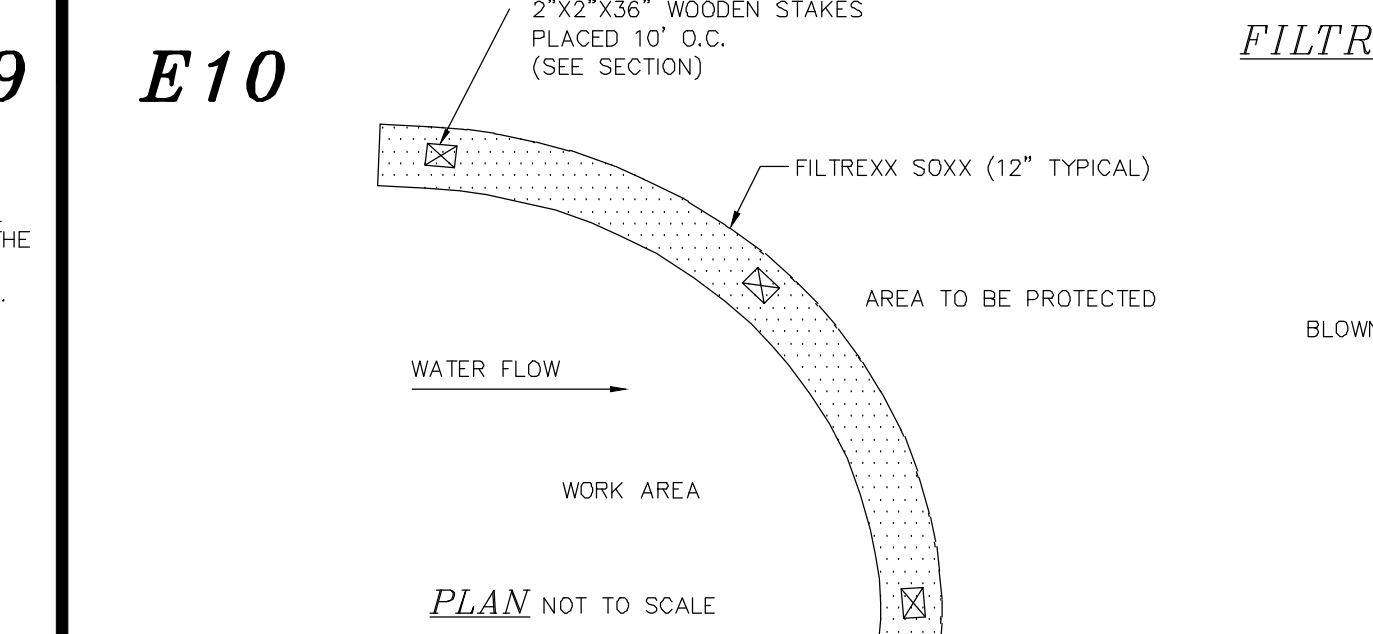
- CONSTRUCT THE LEVEL SPREADER LIP ON A 0% GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
 - LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
 - THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING EXCELSIOR ENFORCER MATTING BENEATH THE STONE. EACH STRIP SHALL OVERLAP BY AT LEAST SIX INCHES.
 - THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
 - MAINTENANCE: THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND THE DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF STONE REMOVAL HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED.
 - REFERENCE IS MADE TO NHDES SWM VOL. 2, 4-6, STONE BERM LEVEL SPREADERS, PAGE 162
- STONE BERM LEVEL SPREADER**
NOT TO SCALE



- EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:
- BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
 - THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
 - THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5% (WHICH MAY BE EVALUATED ON SITE).
 - THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100% DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS.
 - WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
 - THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
 - THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
 - THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
 - THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
 - TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.



- MAINTENANCE**
- ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.
- BLOCK & GRAVEL DROP INLET SEDIMENT FILTER**
NOT TO SCALE
- TO BE USED IN ALL AREAS WHERE THERE WILL BE NO TRAFFIC.

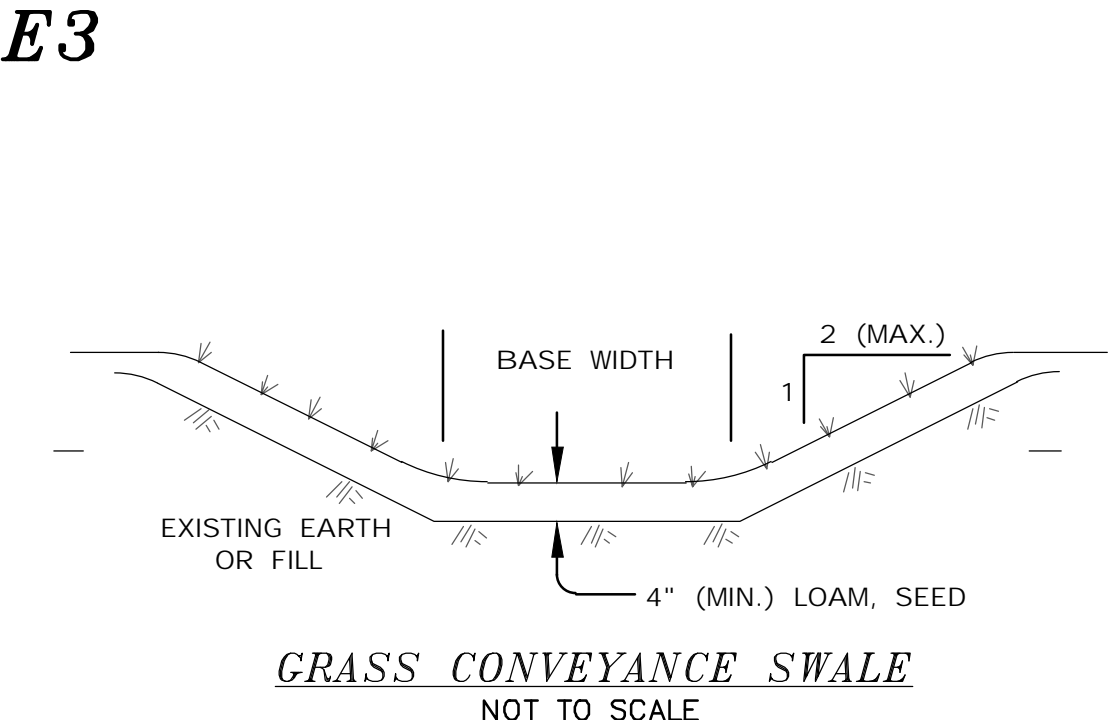


- NOTES**
- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 - FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
 - SILT SOCK MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
 - SILT SOCK COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
 - FILTREXX SOCK IS A REGISTERED TRADEMARK OF FILTREXX INTERNATIONAL, LLC.
 - SILT FENCE IS NOT A SUBSTITUTION FOR SILT SOCK AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
 - TO BE CONSTRUCTED IAW FILTREXX, SECTION 1: EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET, FILTREXX SEDIMENT CONTROL.

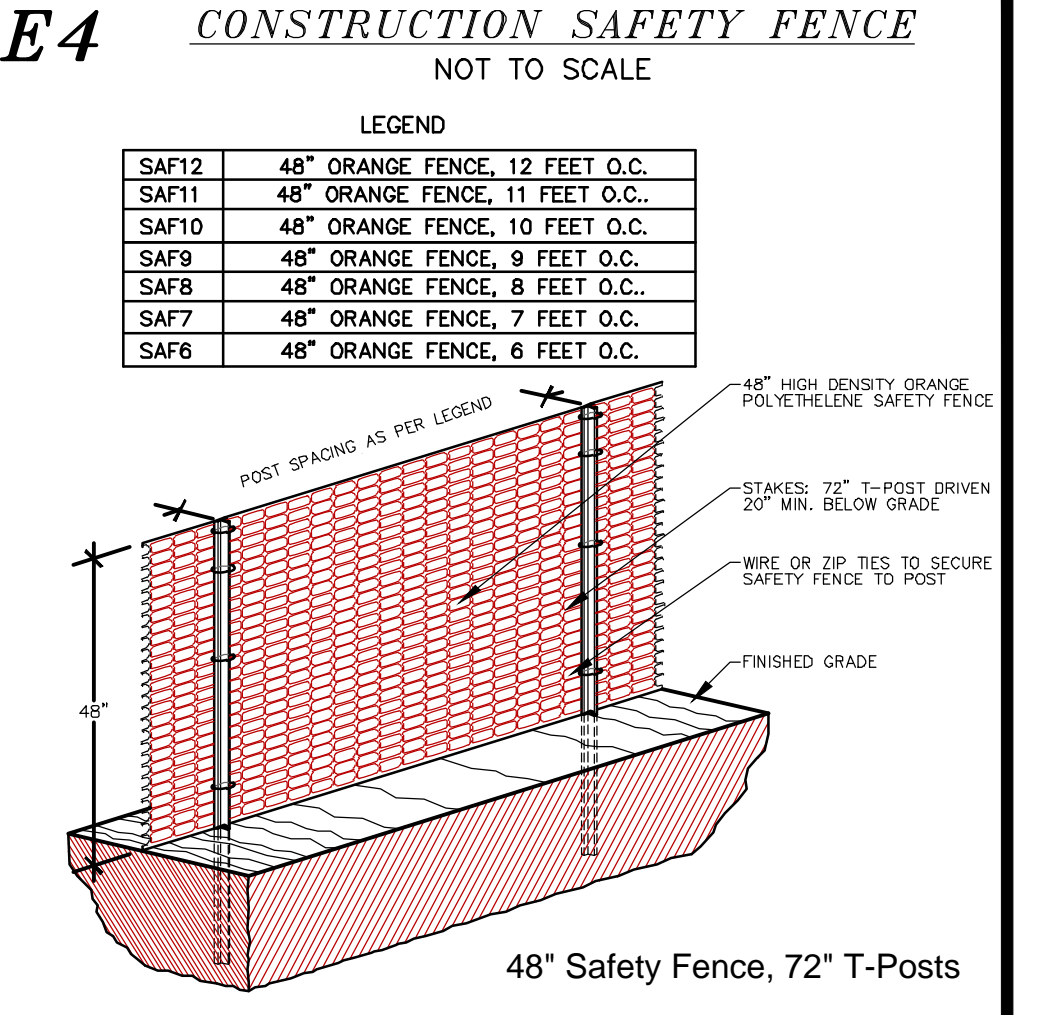
Filtrex International, LLC
35481 Grafton Eastern Rd | Grafton, Oh 44044
440-926-2607 | fax: 440-926-4021
www.filtrex.com
OR APPROVED EQUAL

NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOCK APPLICATIONS. THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOCK AND GRASS CONVEYANCE FENCE AS NOTED.

SECTION NOT TO SCALE

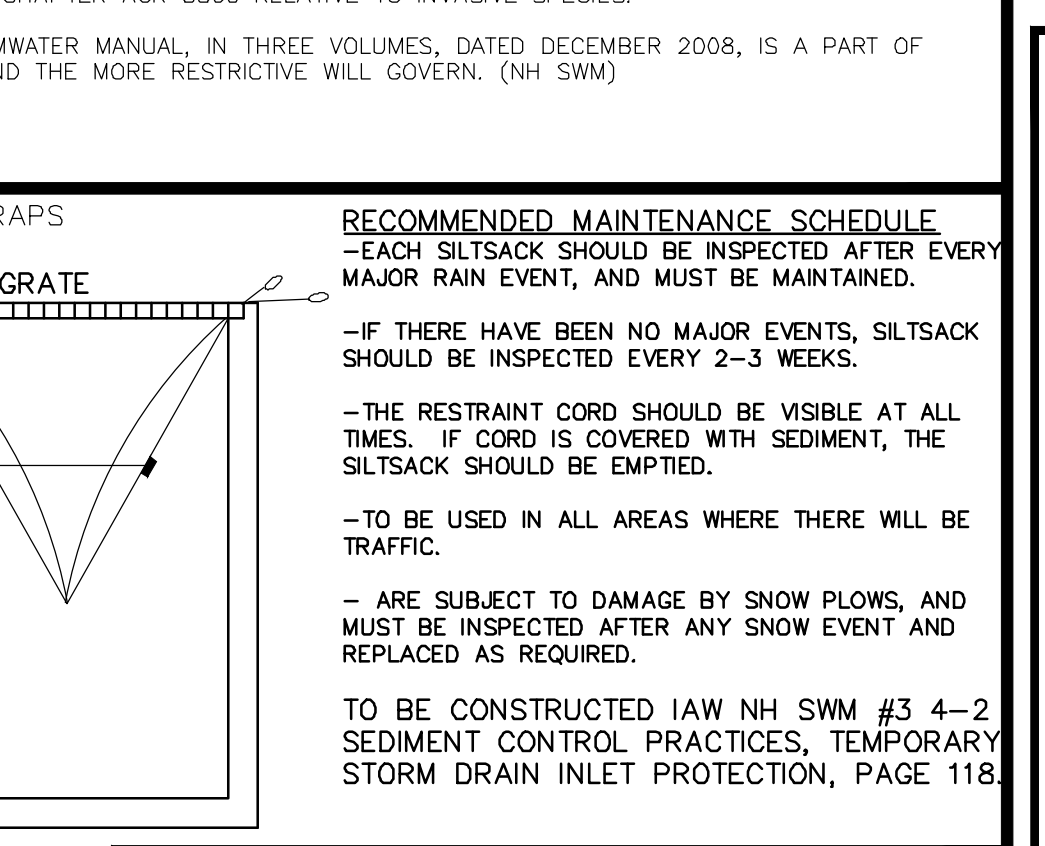


- GRASS CONVEYANCE SWALE**
NOT TO SCALE
- INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATIONS, VEGETATION LOSS, & INVASIVE SPECIES. REPAIR AS NECESSARY.
- MOW GRASS ANNUALLY TO A DEPTH OF 4".
- INSTALL STABILIZATION MATTING DURING CONSTRUCTION
- TO BE CONSTRUCTED IAW NH SWM #2 CHAPTER 4, #5 TREATMENT SWALES, PAGE 123.



1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

- E8**
TEMPORARY EROSION CONTROL MEASURES
- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
 - EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
 - ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDING WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
 - ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
 - SILT FENCES AND PERIMETER BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
 - AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
 - PER THE EPA CGP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BS&E. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OR GREATER RAIN EVENT.
 - DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
 - DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
 - ROADWAYS, DRIVEWAYS AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
 - STABILIZATION MEANS:
 - A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
 - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - THIS 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.
 - THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)



SILTSACK DETAIL
NOT TO SCALE

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

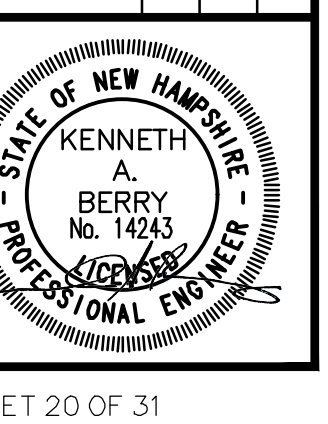
EROSION & SEDIMENT CONTROL DETAILS

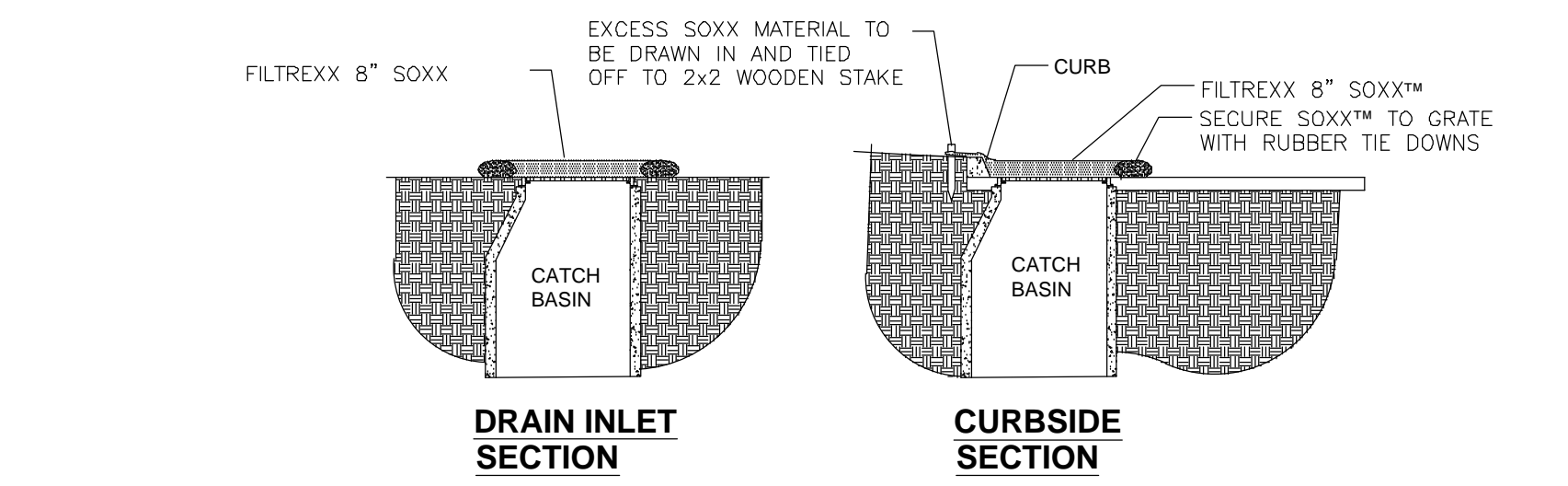
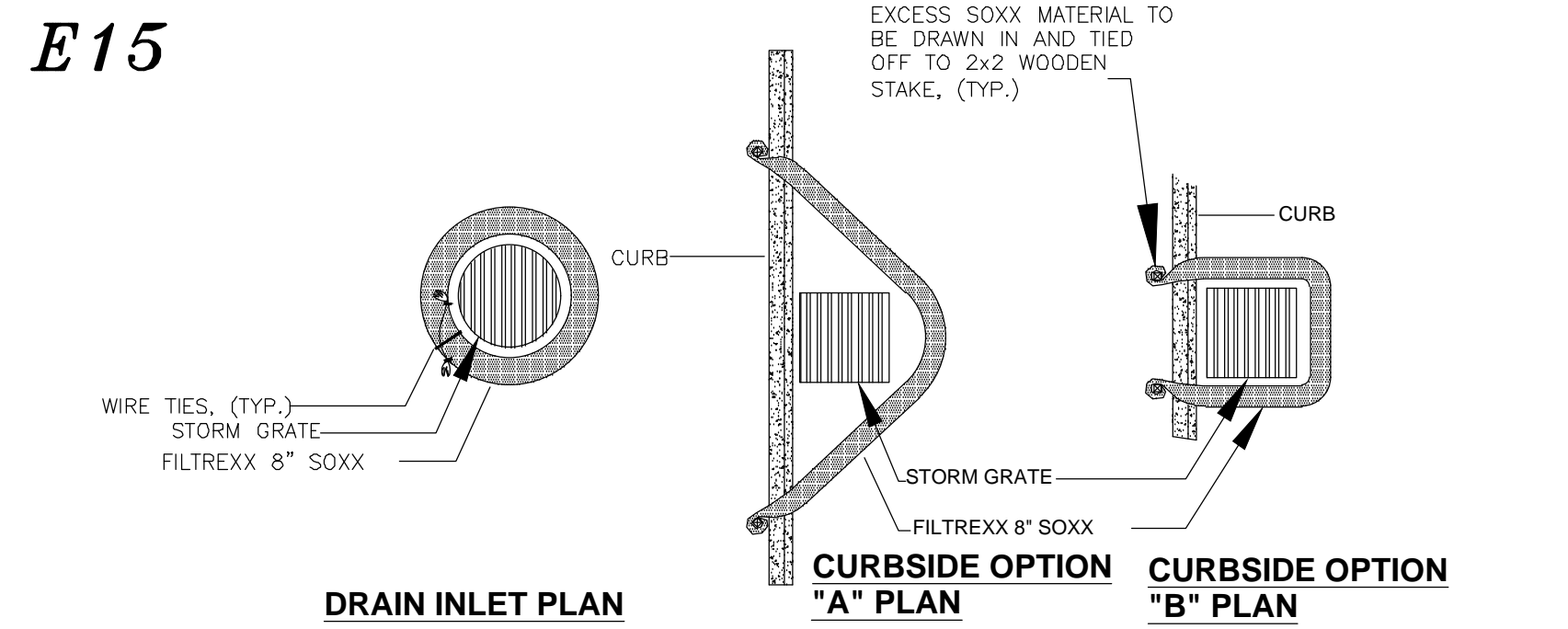
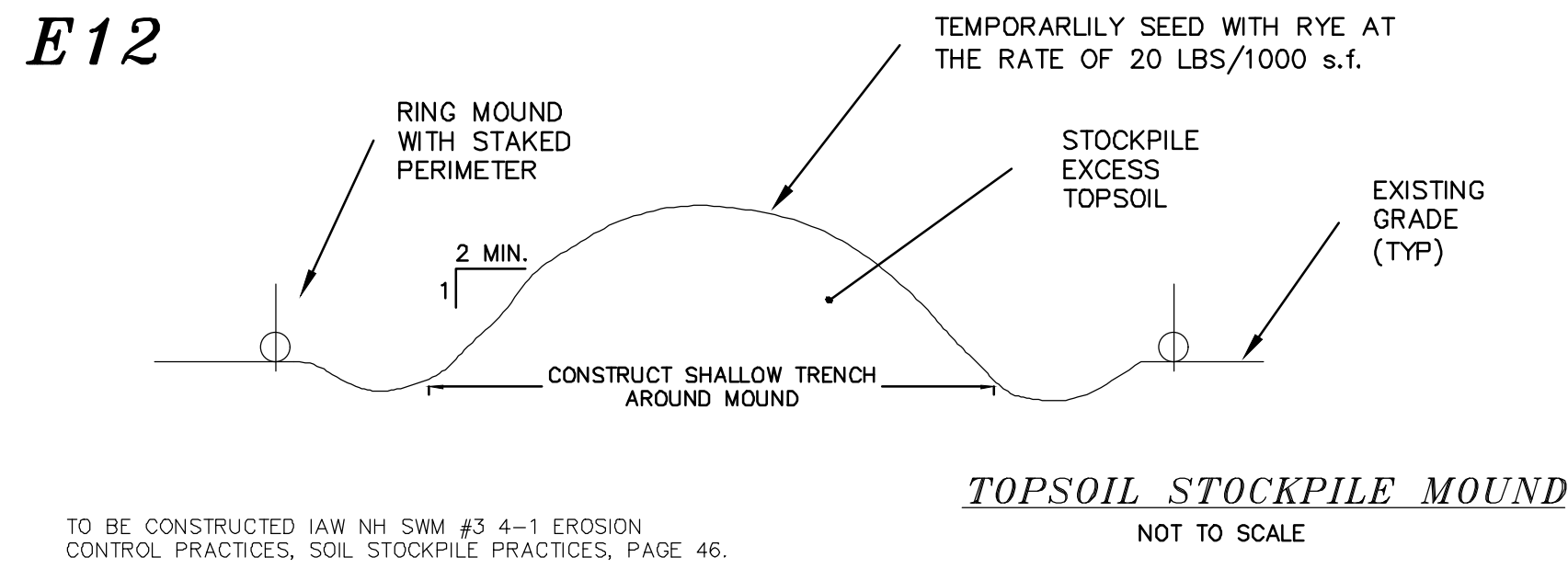
LAND OF
HAWBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED

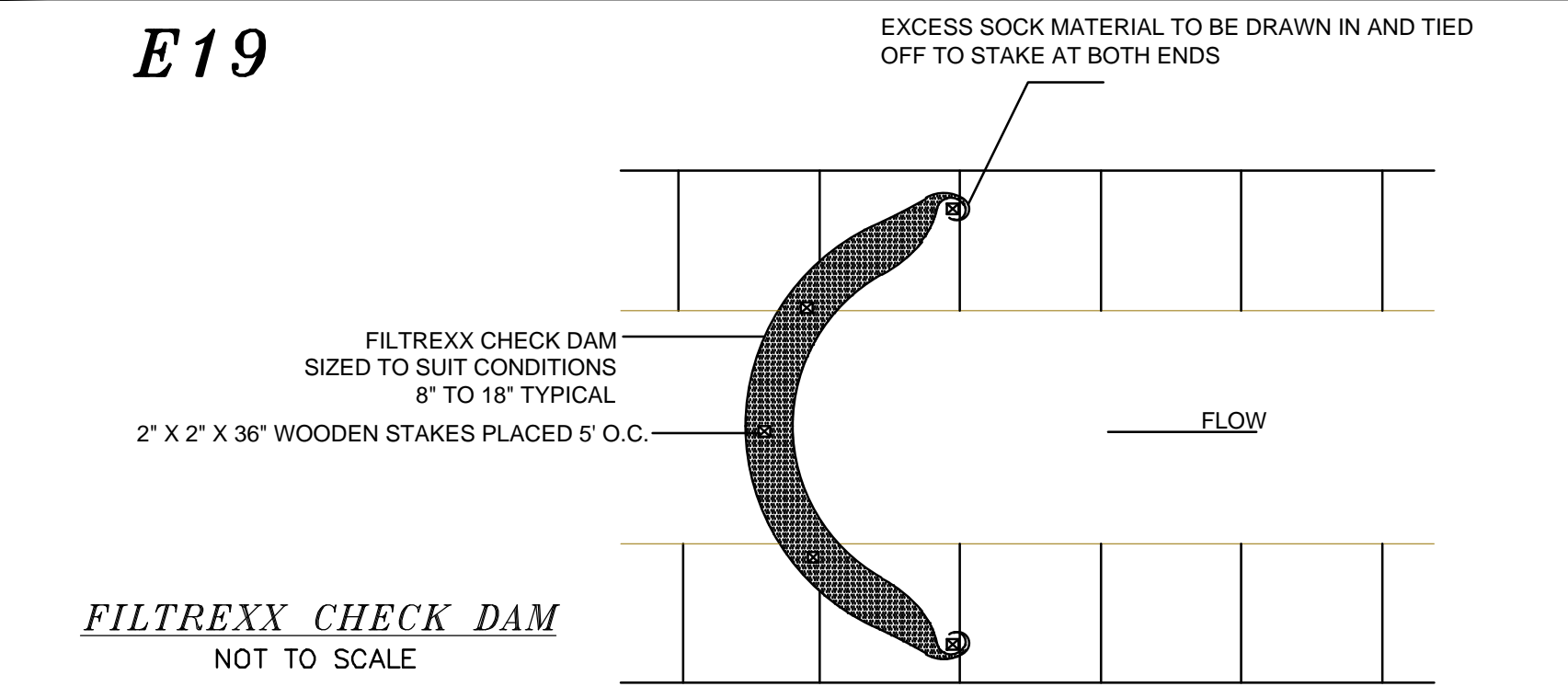
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FILE NO. : DB 2021-163



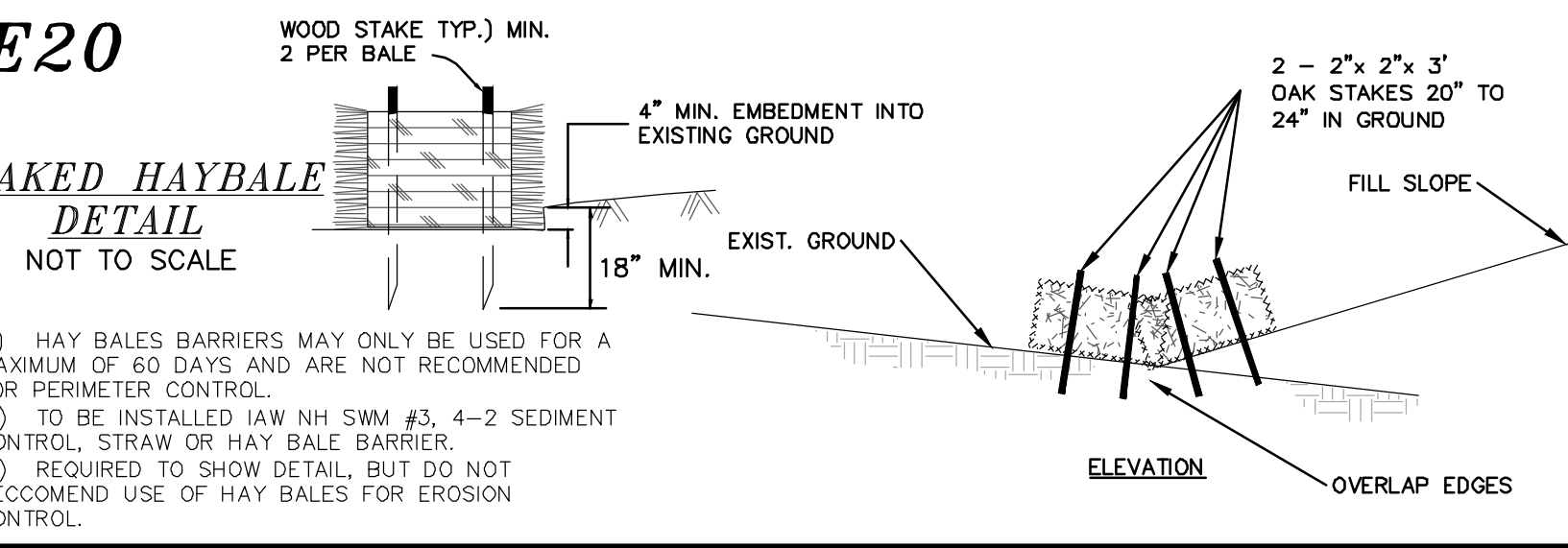


- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

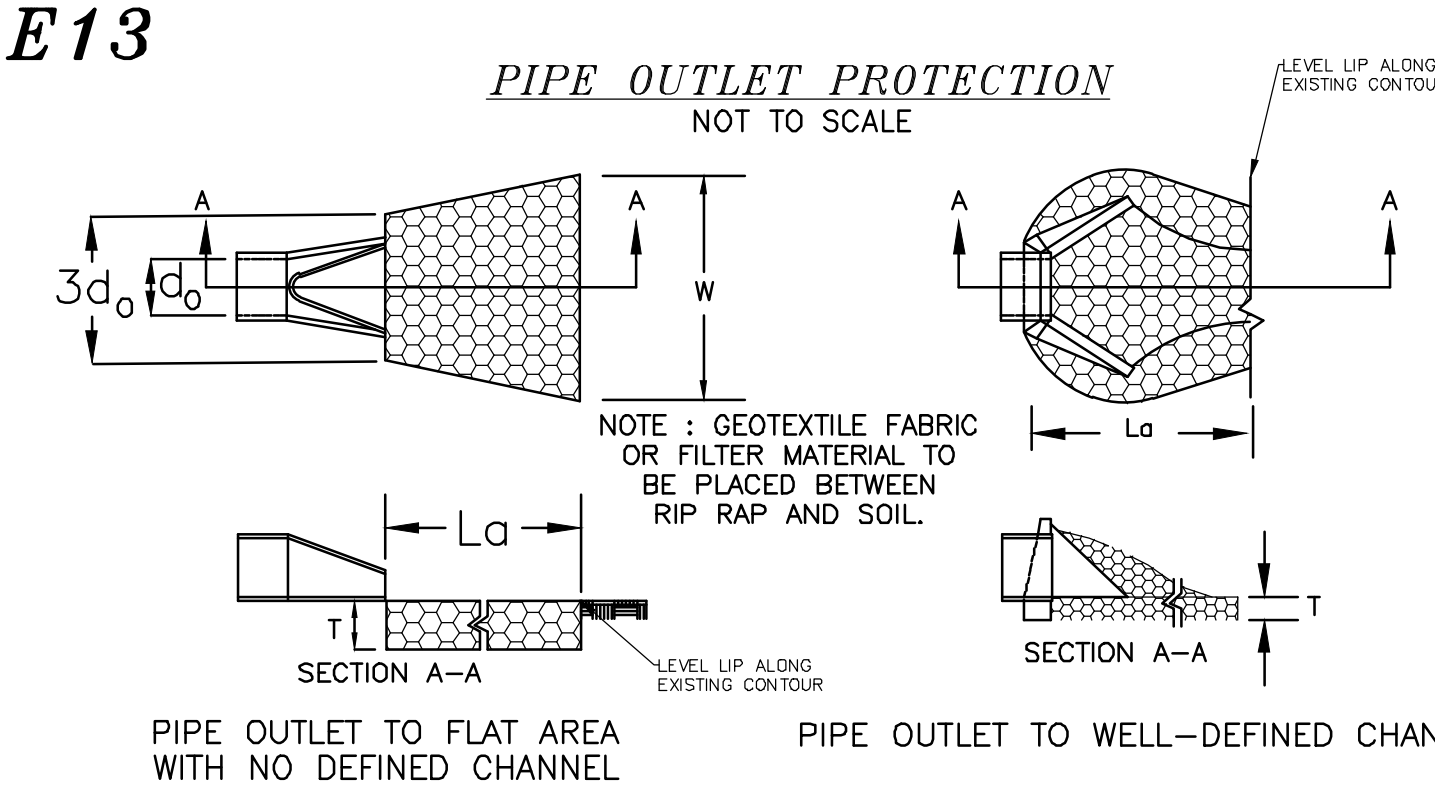
FILTREXX INLET PROTECTION
NOT TO SCALE



- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 2. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 1 ACRE OR LESS.
 3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
 4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
 5. CONTRACTOR IS REQUIRED TO BE A FILTREXX CERTIFIED INSTALLER.



- 1.) HAY BALES BARRIERS MAY ONLY BE USED FOR A MAXIMUM OF 60 DAYS AND ARE NOT RECOMMENDED FOR PERIMETER CONTROL.
2.) TO BE INSTALLED IAW NH SWM #3, 4-2 SEDIMENT CONTROL, STRAW OR HAY BALE BARRIER.
3.) REQUIRED TO SHOW DETAIL, BUT DO NOT RECOMMEND USE OF HAY BALES FOR EROSION CONTROL.



E16 SEEDING GUIDE

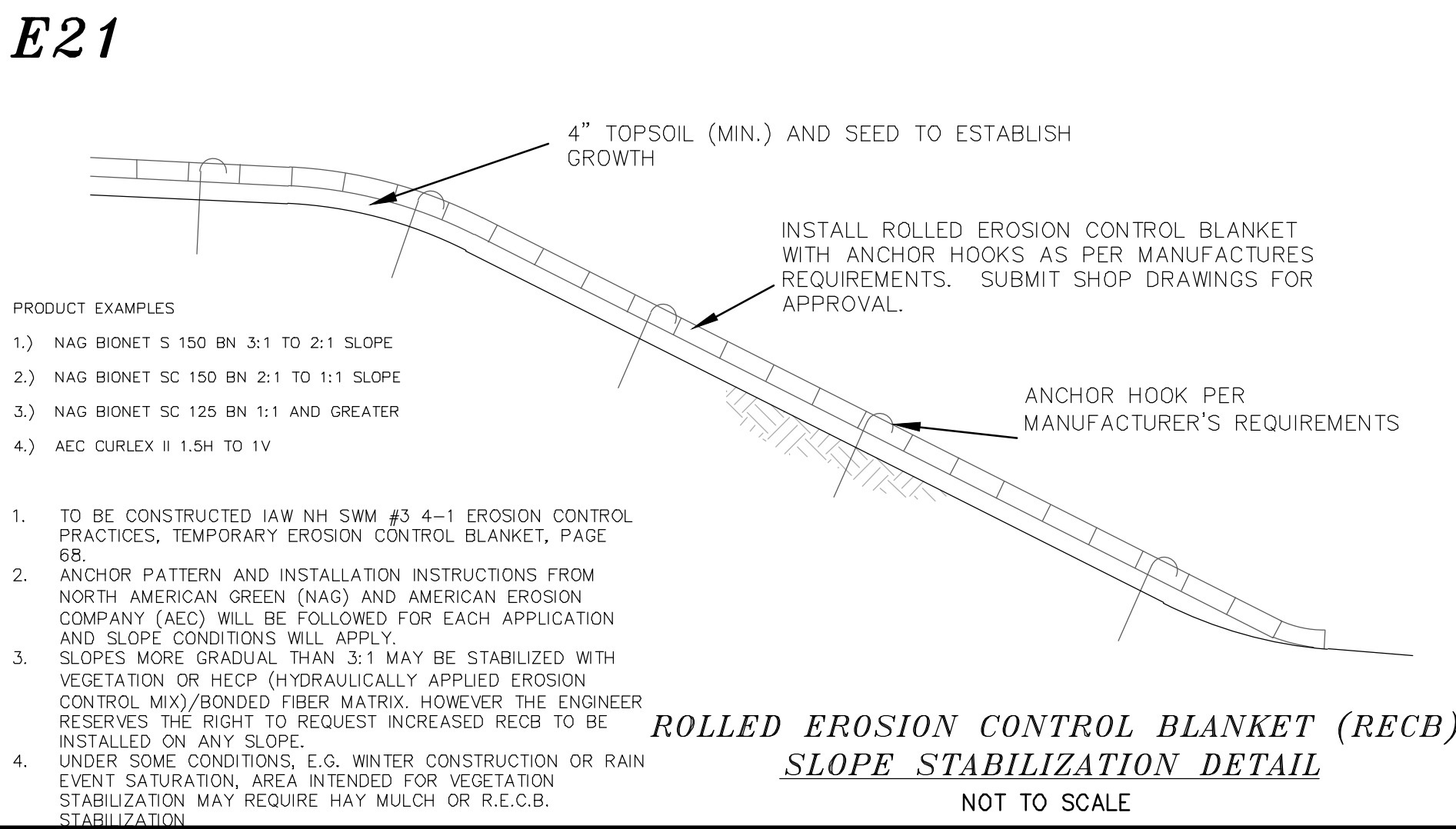
USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY DRAINED	POORLY DRAINED
STEEP CUTS AND FILL, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	EXCELLENT	GOOD
	C	POOR	FAIR	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOODING WATER	A	GOOD	GOOD	GOOD	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNSEEN LOTS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	EXCELLENT
	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/

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS 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.

SEEDING SPECIFICATIONS SEEDING RATES

C. TALL FESCUE	24	0.56
CREEPING RED FESCUE	24	0.56
BIODIVERSITY MIX	24	0.56
TOTAL	48	1.10

1. GRADING AND SHAPING: 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 SEED BED 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 INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - B. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, PERMANENT VEGETATION, PAGE 60.
 - C. SEE RAIN GARDEN AND INFILTRATION DETAIL SHEETS FOR SPECIFIC PLANTING INSTRUCTIONS AND SEEDING.
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 S.F.
 - C. MAINTENANCE TO ESTABLISH A STAND
 - D. A PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - E. 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.
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.
6. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, PERMANENT VEGETATION, PAGE 60.
7. SEE RAIN GARDEN AND INFILTRATION DETAIL SHEETS FOR SPECIFIC PLANTING INSTRUCTIONS AND SEEDING.



- PRODUCT EXAMPLES
- 1.) NAG BIONET S 150 BN 3:1 TO 2:1 SLOPE
 - 2.) NAG BIONET SC 150 BN 2:1 TO 1:1 SLOPE
 - 3.) NAG BIONET SC 125 BN 1:1 AND GREATER
 - 4.) AEC CUREX II 1.5H TO 1V

1. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 68.
2. ANCHOR PATTERN AND INSTALLATION INSTRUCTIONS FROM NORTH AMERICAN GREEN (NAG) AND AMERICAN EROSION COMPANY (AEC) WILL BE FOLLOWED FOR EACH APPLICATION AND SLOPE CONDITIONS WILL APPLY.
3. SLOPES MORE GRADUAL THAN 3:1 MAY BE STABILIZED WITH VEGETATION OR HECF (HYDRAULICALLY APPLIED EROSION CONTROL MIX)/BONDED FIBER MATRIX. HOWEVER THE ENGINEER RESERVES THE RIGHT TO REQUEST INCREASED RECB TO BE INSTALLED ON ANY SLOPE.
4. UNDER SOME CONDITIONS, E.G. WINTER CONSTRUCTION OR RAIN EVENT SATURATION, AREA INTENDED FOR VEGETATION STABILIZATION MAY REQUIRE HAY MULCH OR R.E.C.B. STABILIZATION.

PIPE OUTLET PROTECTION 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 SPECIFIED GRADATION.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
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. TO BE CONSTRUCTED IAW NH SWM #2 4-6 CONVEYANCE PRACTICES, 6. OUTLET PROTECTION, PAGE 172.

E14 TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE=	0.5 FEET	6 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

CONSTRUCTION SEQUENCE:

- 1.) CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED, RELOCATE ANY PROJECT T.B.M.
- 2.) CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS SPECIFIED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL LAND DISTURBANCE AND MUST BE REVIEWED AND APPROVED BY THE COMMUNITY SERVICES DEPARTMENT.
- 3.) EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. TEMPORARY DIVERSIONS MAY BE REQUIRED. POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES MUST BE INITIATED AND STABILIZED EARLY IN THE PROCESS.
- 4.) CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
- 5.) CONSTRUCT TEMPORARY WATER DIVERSIONS (SWALES, BASINS, ETC.) AS NEEDED UNTIL SITE IS STABILIZED.
- 6.) ALL SWALES ARE TO BE INSTALLED PRIOR TO ROUGH GRADING OF THE SITE. TEMPORARY WATER DIVERSION (SWALES, ETC.) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
- 7.) CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY.
- 8.) INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
- 9.) BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEED OR MULCHED AS REQUIRED, OR DIRECTED. ANY AREA DISTURBED BY CONSTRUCTION WILL BE RE-STABILIZED WITHIN 45 DAYS (ENV-WQ 1504.16) AND ARBITING PROPERTIES WILL NOT BE ADVERSELY AFFECTED BY THIS DEVELOPMENT. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM. IAW EPA 2022 CGP 2.14, SITE STABILIZATION WILL BE INITIATED IMMEDIATELY IN ANY AREAS OF EXPOSED SOIL WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. THE INSTALLATION OF STABILIZATION WILL BE COMPLETED AS SOON AS PRACTICABLE BUT NO LATER THAN 14 CALENDAR DAYS. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES.
- 10.) CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 11.) INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL SWPPP INSPECTIONS MUST BE CONDUCTED BY A QUALIFIED PROFESSIONAL SUCH AS A PROFESSIONAL ENGINEER (PE), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR A CERTIFIED PROFESSIONAL IN STORM WATER QUALITY (CPSWQ). INSPECTION REPORTS SHALL BE SUBMITTED TO THE COMMUNITY SERVICES DEPARTMENT. INSPECTIONS SHALL BE CONDUCTED WEEKLY AND WITHIN 24 HOURS OF A 0.25 INCH RAIN EVENT.
- 12.) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13.) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
- 14.) SMOOTH AND REVEGETATE ALL DISTURBED AREAS. STABILIZATION SHOULD OCCUR WITHIN 14 DAYS OF REMOVAL OF TEMPORARY MEASURES.
- 15.) FINISH PAVING ALL ROADWAYS.

E18 DEFINITION OF STABLE:

- PER ENV-WQ 1500 ALTERATION OF TERRAIN
1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 2. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED..
 3. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
 4. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- ADDITION STABILIZATION NOTES:
5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.
 6. DISTURBED SOIL AREAS SHALL BE EITHER TEMPORARILY OR PERMANENTLY STABILIZED. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN SEVEN (7) CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN ONE HUNDRED (100) FEET OF A SURFACE WATER BODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN THREE (3) CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.

WINTER STABILIZATION NOTES

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 CUREX 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 OCTOBER 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 SEED 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.
5. ENV-WQ 1505.06 COLD WEATHER SITE STABILIZATION (B)(1) LIMITS ARE OF EXPOSURE TO ONE ACRE OF UNSTABILIZED SOIL WITHOUT OBTAINING A WAIVER AND WINTER CONSTRUCTION PLAN.

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY NOTIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

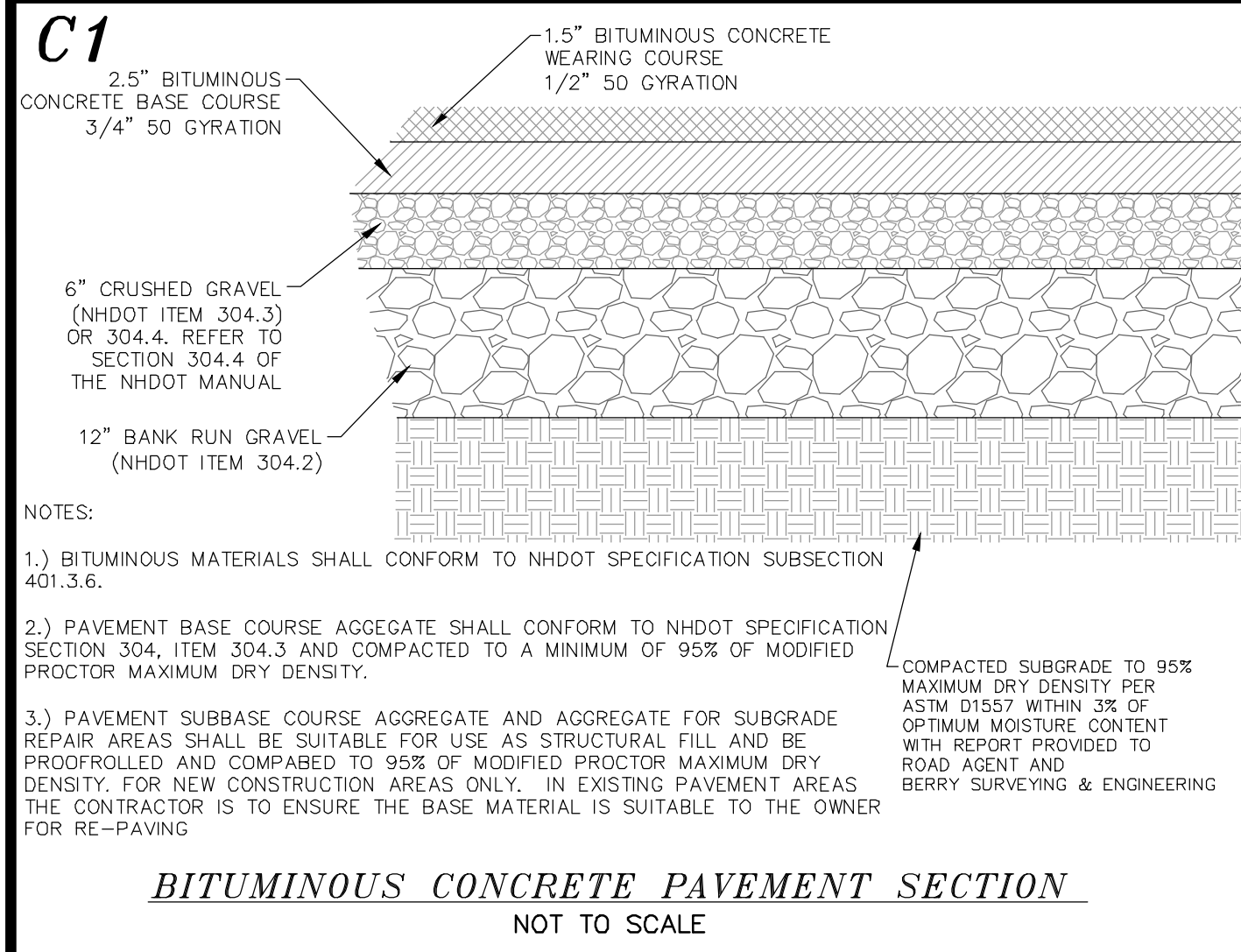
EROSION & SEDIMENT CONTROL DETAILS

LAND OF
HAYBONE LLC
49 WINKLEY POND ROAD
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TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER



BARRINGTON SUBDIVISION REGULATION PAVEMENT REQUIREMENTS:
12.8.3.....PAVEMENT

12.8.3(1)BINDER COURSE
BITUMINOUS PAVEMENT SHALL CONFORM TO DIVISION-400, SECTION 401-PLANT MIX PAVEMENTS -GENERAL OF THE NHDOT STANDARD SPECIFICATIONS, LATEST EDITION, AS MODIFIED IN THESE SPECIFICATIONS.

12.8.3(2)WEARING COURSE
MATERIALS SHALL CONFORM TO DIVISION 700-MATERIALS; SECTION 702BITUMINOUS MATERIALS AND SECTION 703- AGGREGATES OF THE NHDOT STANDARD SPECIFICATIONS, LATEST EDITION.

12.8.3(3)METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION 400PAVEMENTS; SECTION 403-HOT BITUMINOUS PAVEMENT OF THE NHDOT STANDARD SPECIFICATIONS, LATEST EDITION.

12.8.3(4)12.5MM AND 19MM NOMINAL AGGREGATE HOT BITUMINOUS PAVEMENT JOB MIXES SHALL CONFORM TO 50 GYRATION SUPERPAVE MIX DESIGN CRITERIA. ALL 9.5MM NOMINAL AGGREGATE HOT BITUMINOUS PAVEMENT JOB MIXES SHALL CONFORM TO 75 GYRATION SUPERPAVE MIX DESIGN CRITERIA.

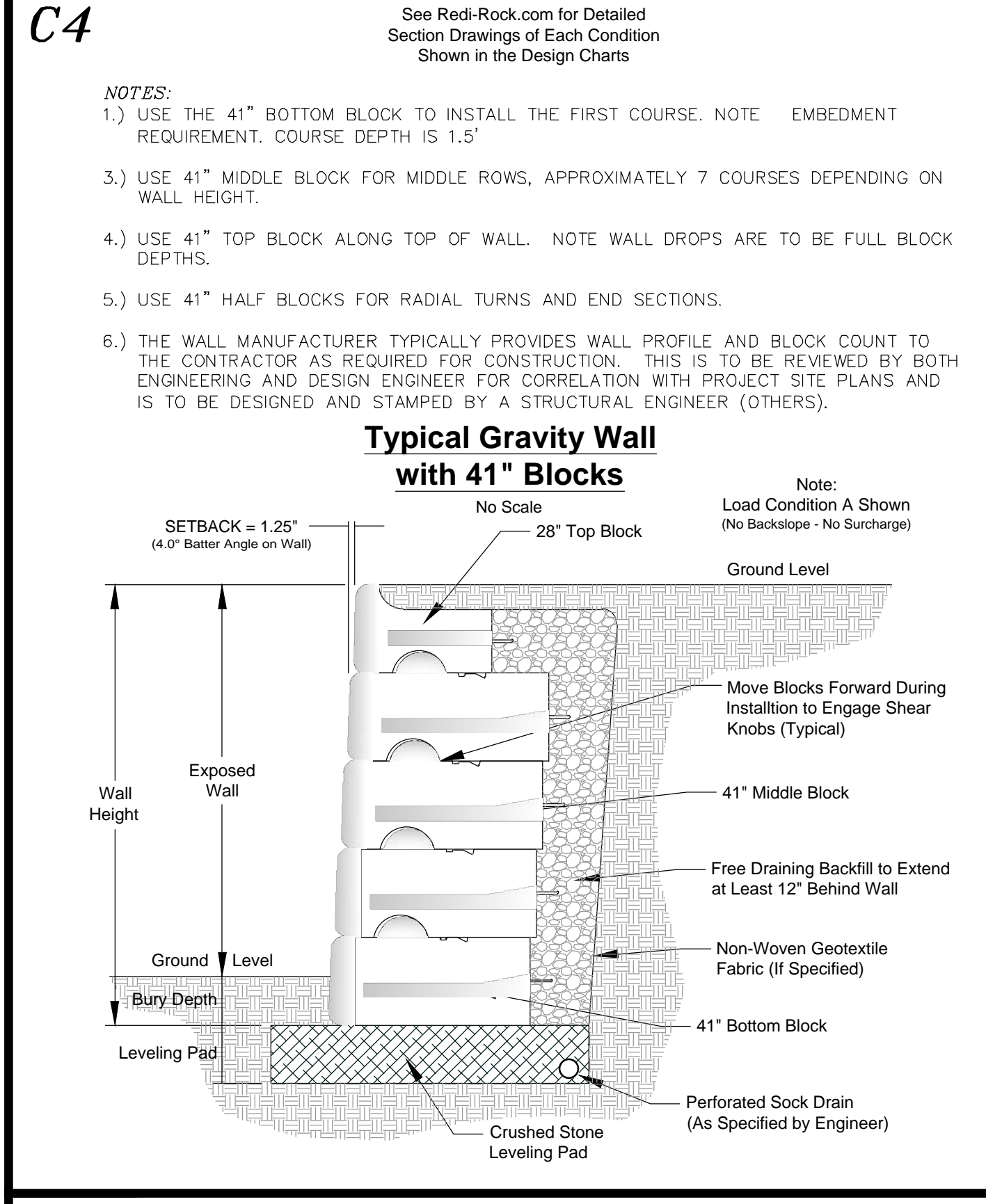
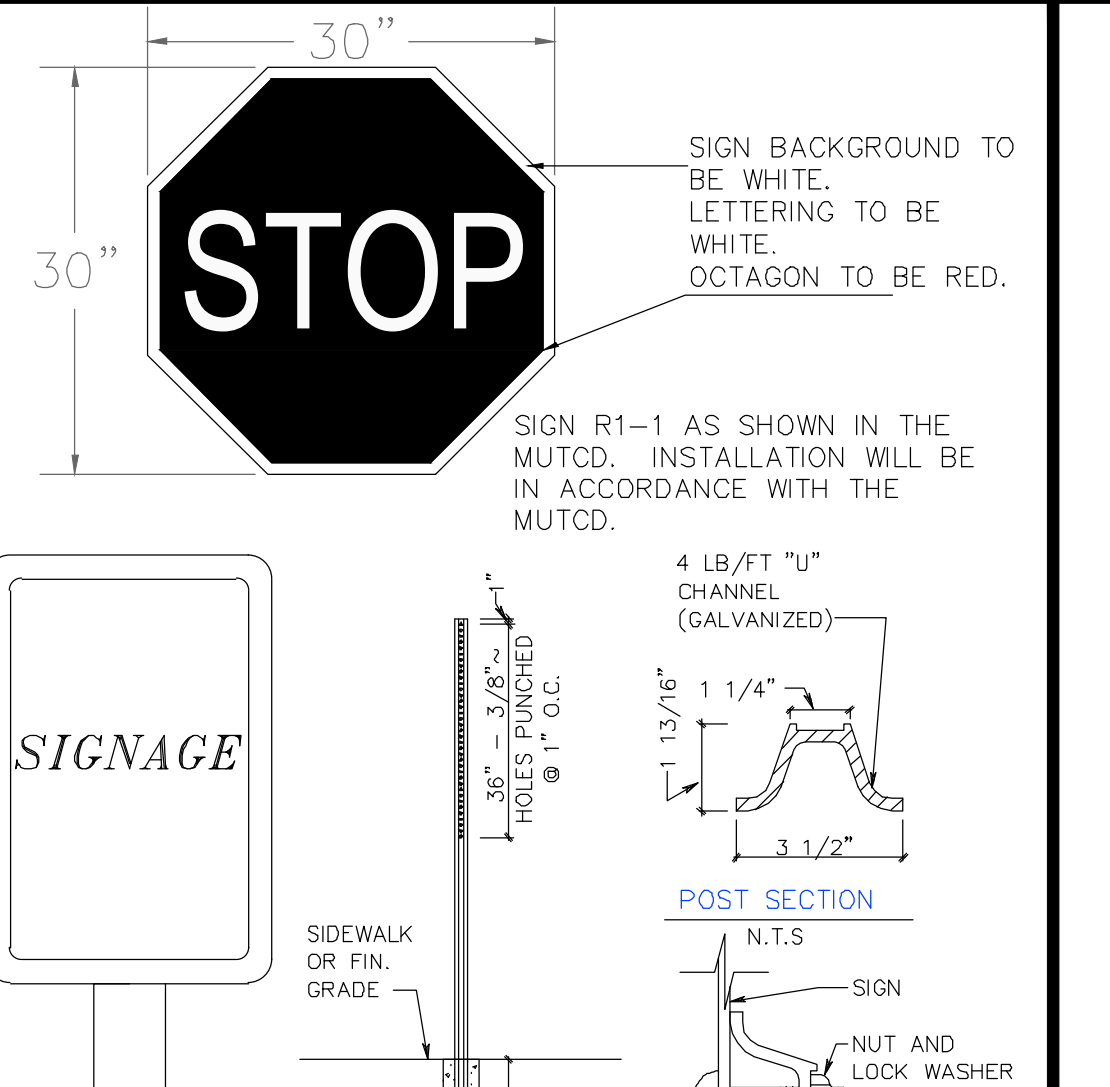
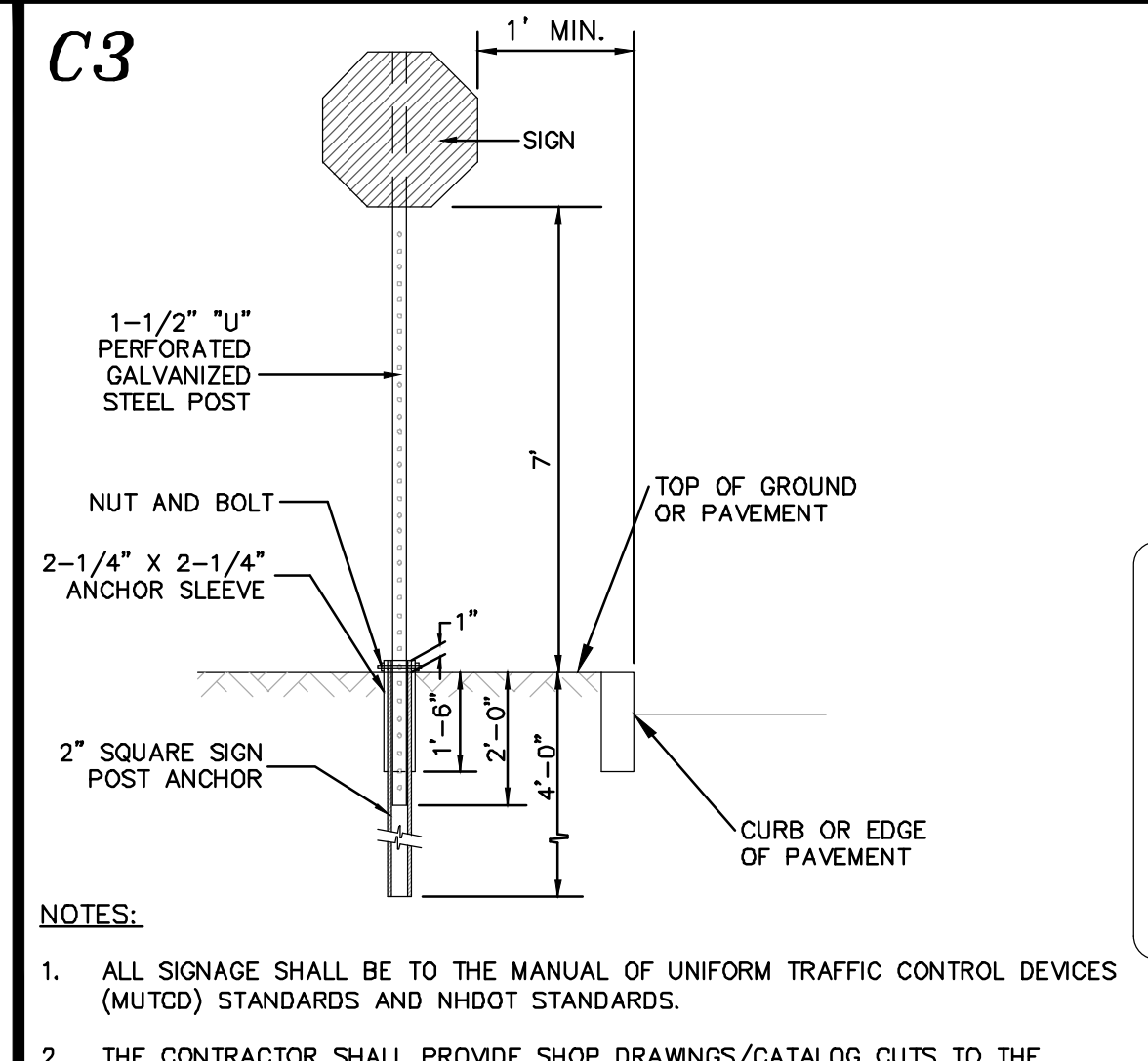
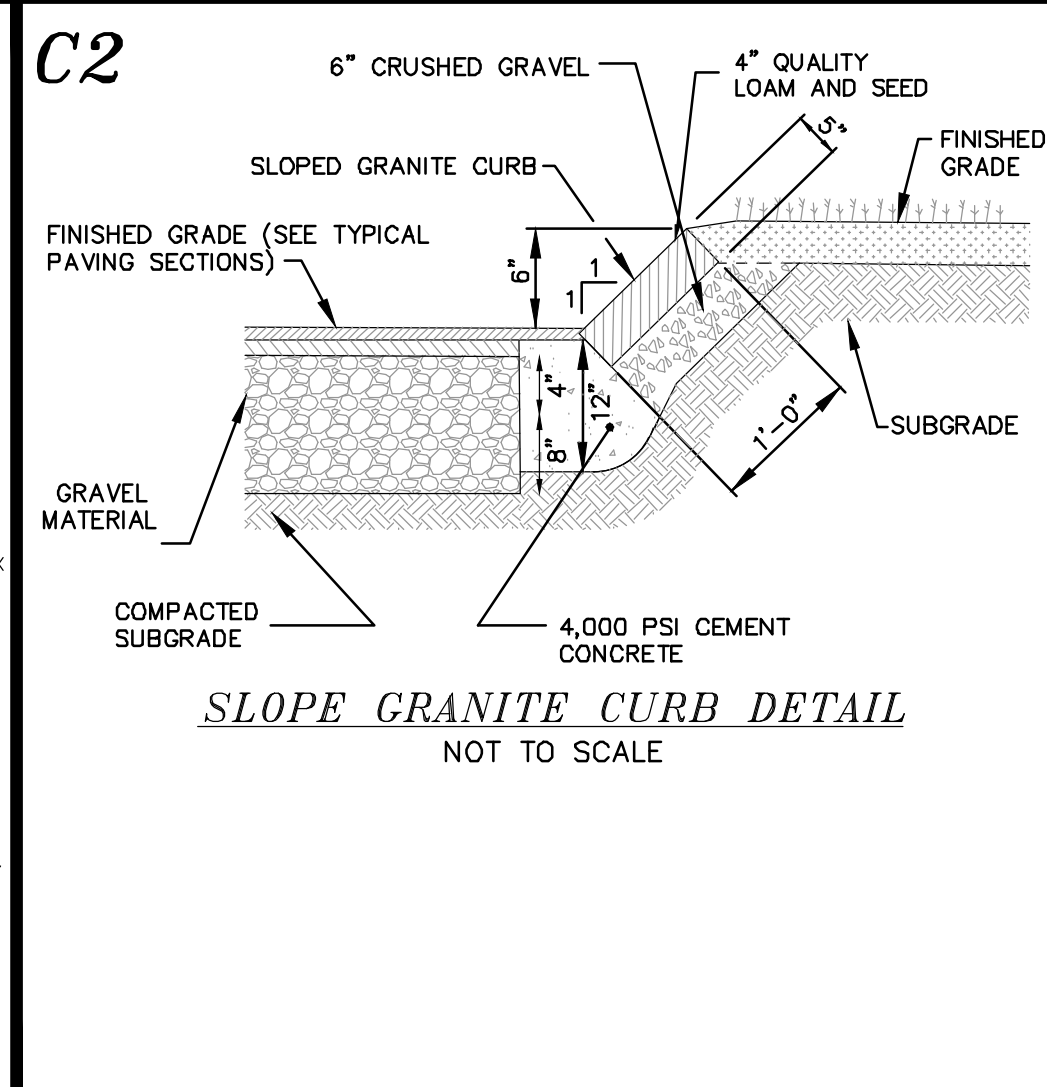
12.8.3(5)THE MINIMUM BINDER CONTENT SHALL BE 6.0% FOR 9.5MM MIX DESIGNS; 5.0% FOR 12.5MM MIX DESIGNS; AND 5.1% FOR 19MM MIX DESIGNS. ALL PAVEMENT MIXES SHALL HAVE A MAXIMUM TOTAL REUSED BINDER (TRB) CONTENT OF 0.5% AND MEET ALL THE VOLUMETRIC MIX DESIGN CRITERIA.

12.8.3(6)LIQUID ASPHALT CEMENT BINDER SHALL HAVE A PERFORMANCE GRADE (PG) OF PG 64-28 FOR ALL STANDARD BITUMINOUS PAVEMENTS AND PG 76-28 FOR ALL HIGH STRENGTH BITUMINOUS PAVEMENTS.

12.8.3(7)ALL BASE/BINDER PAVEMENT THAT IS INSTALLED AND LEFT WITHOUT A WEARING COURSE THROUGH THE WINTER SEASON SHALL BE NHDOT'S 19.0MM "WINTER BINDER" PAVEMENT MIX DESIGN. THE MIX SHALL HAVE A MINIMUM LIQUID ASPHALT CONTENT OF 5.3% AND AT LEAST 50% DRY AGGREGATE PASSING THE #4 Sieve.

12.8.3(8)PAVEMENT JOINT ADHESIVE (ITEM 403.16) SHALL BE APPLIED TO LONGITUDINAL JOINTS IN ACCORDANCE WITH NHDOT SECTION 401.

12.8.3(9)ASPHALT EMULSION FOR TACK COAT (ITEM 410.22) SHALL BE APPLIED BETWEEN ALL PAVEMENT LIFTS, INCLUDING EXISTING AND NEW PAVEMENT IN ACCORDANCE WITH NHDOT SECTION 410.

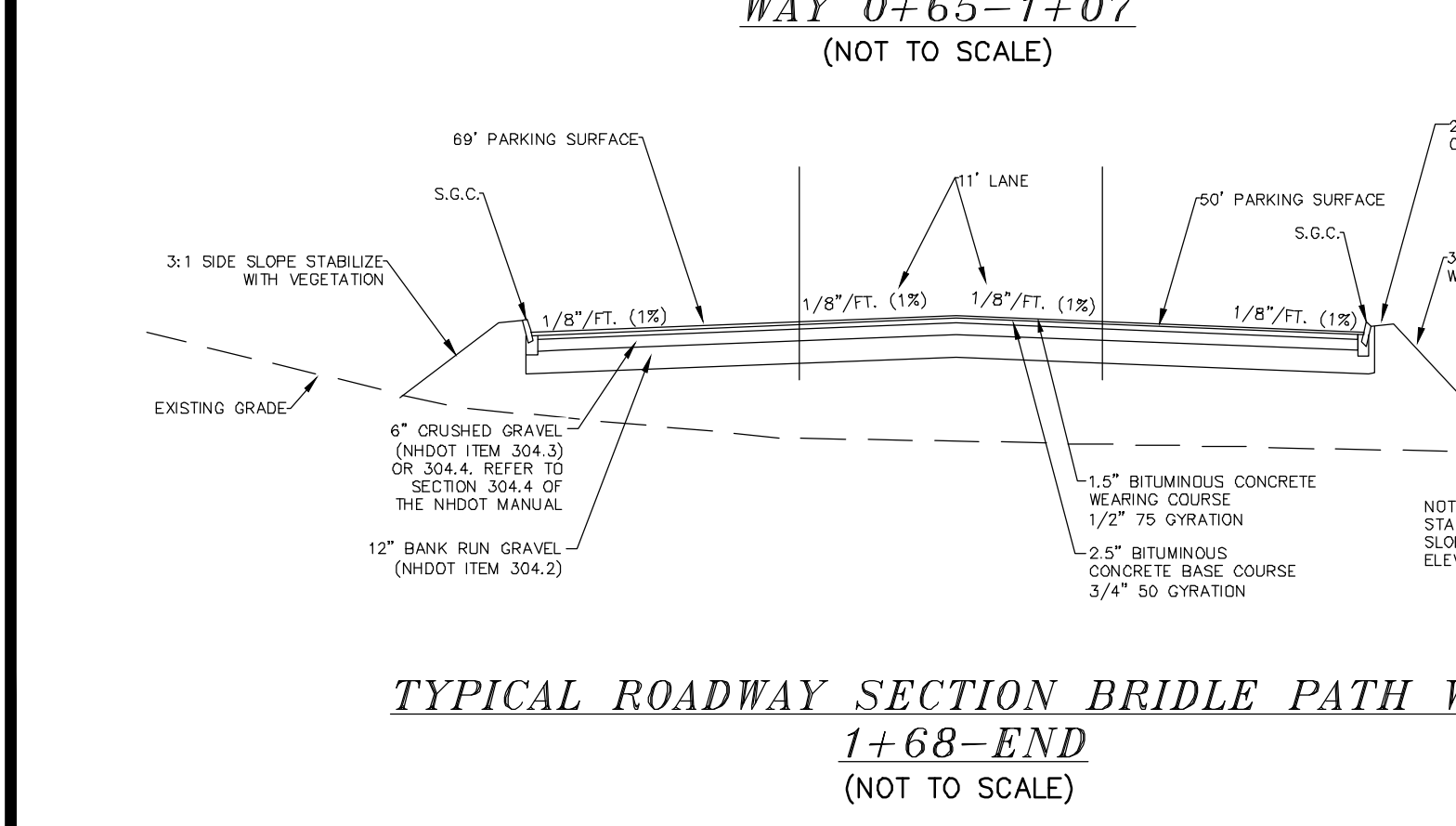
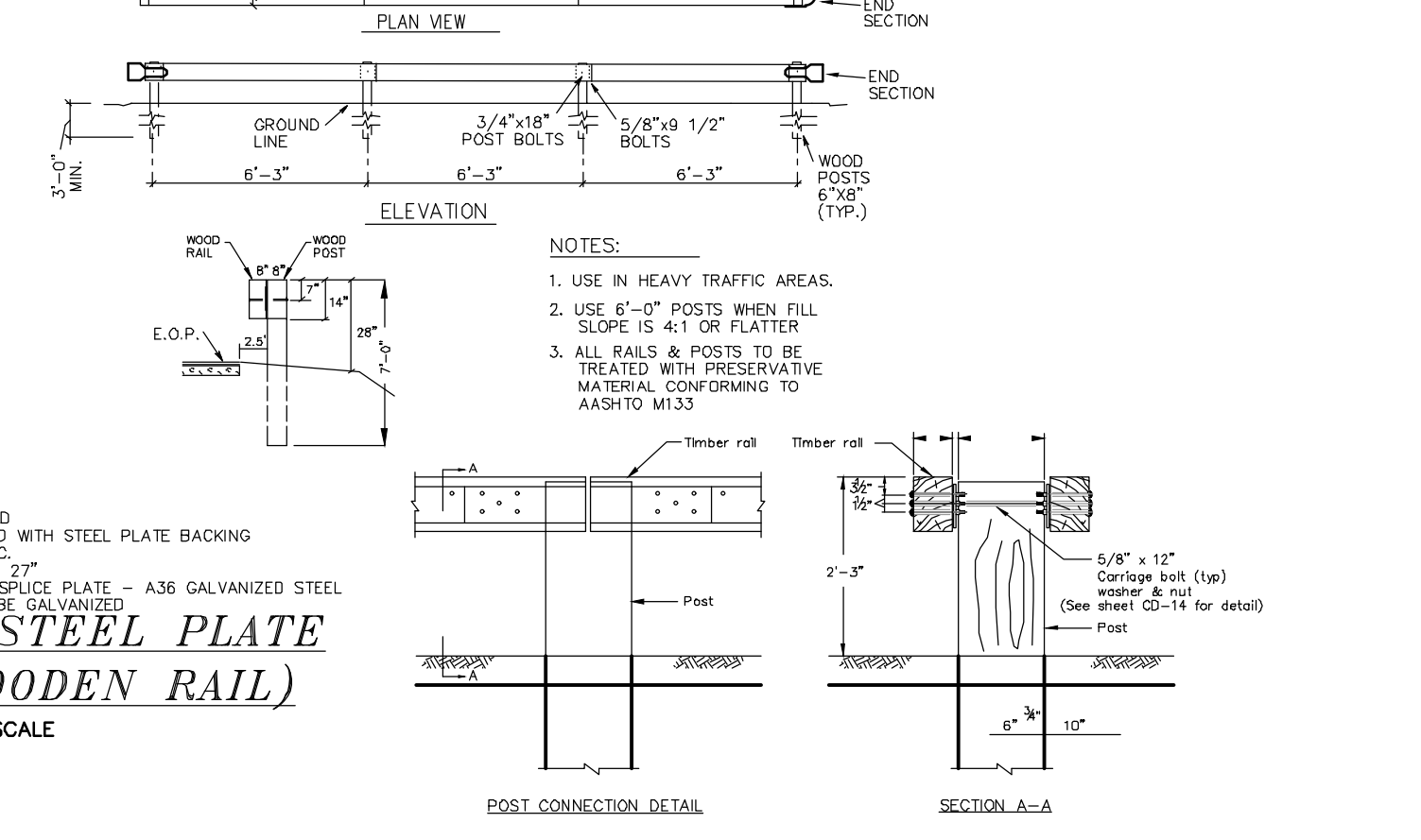
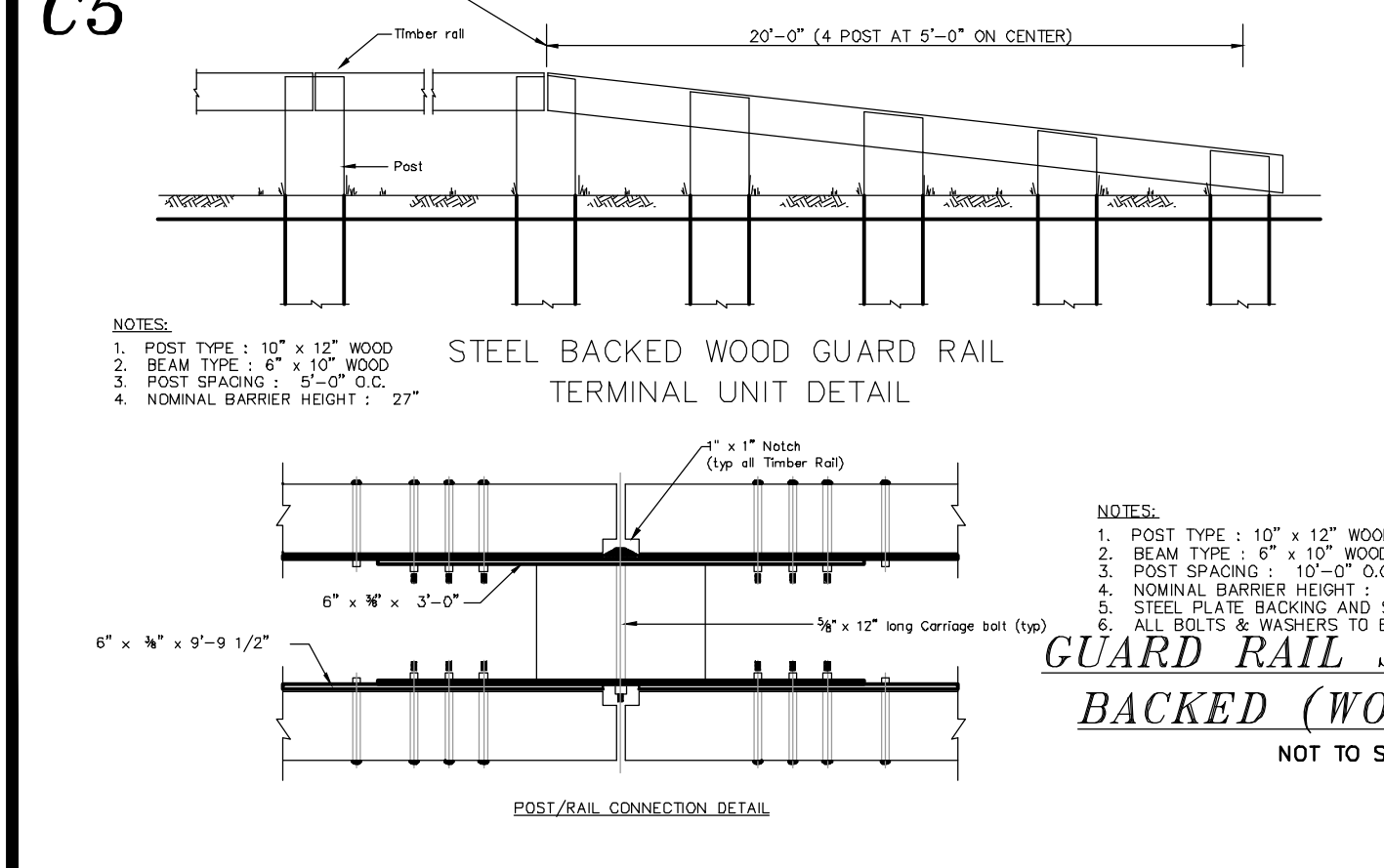
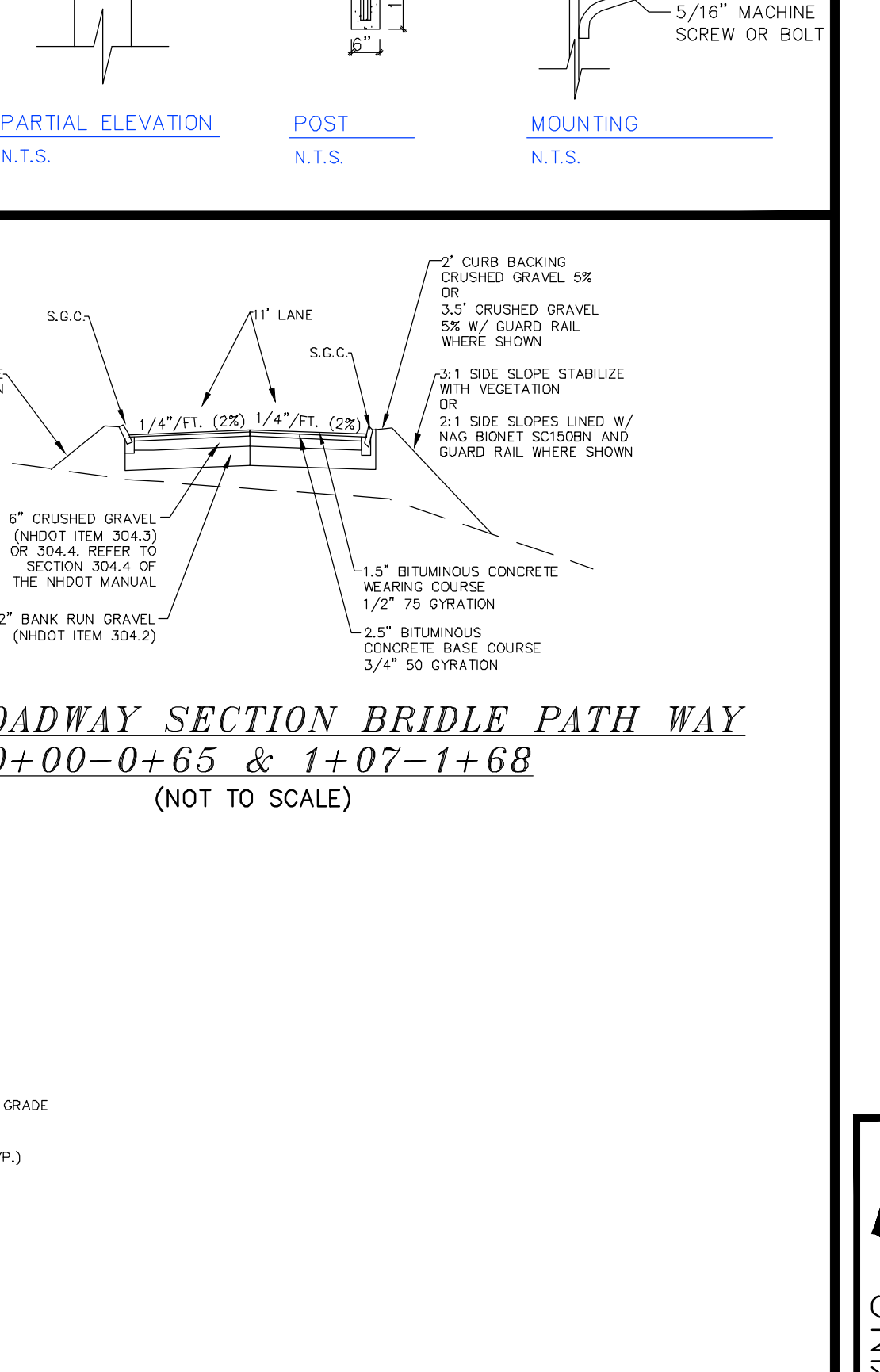
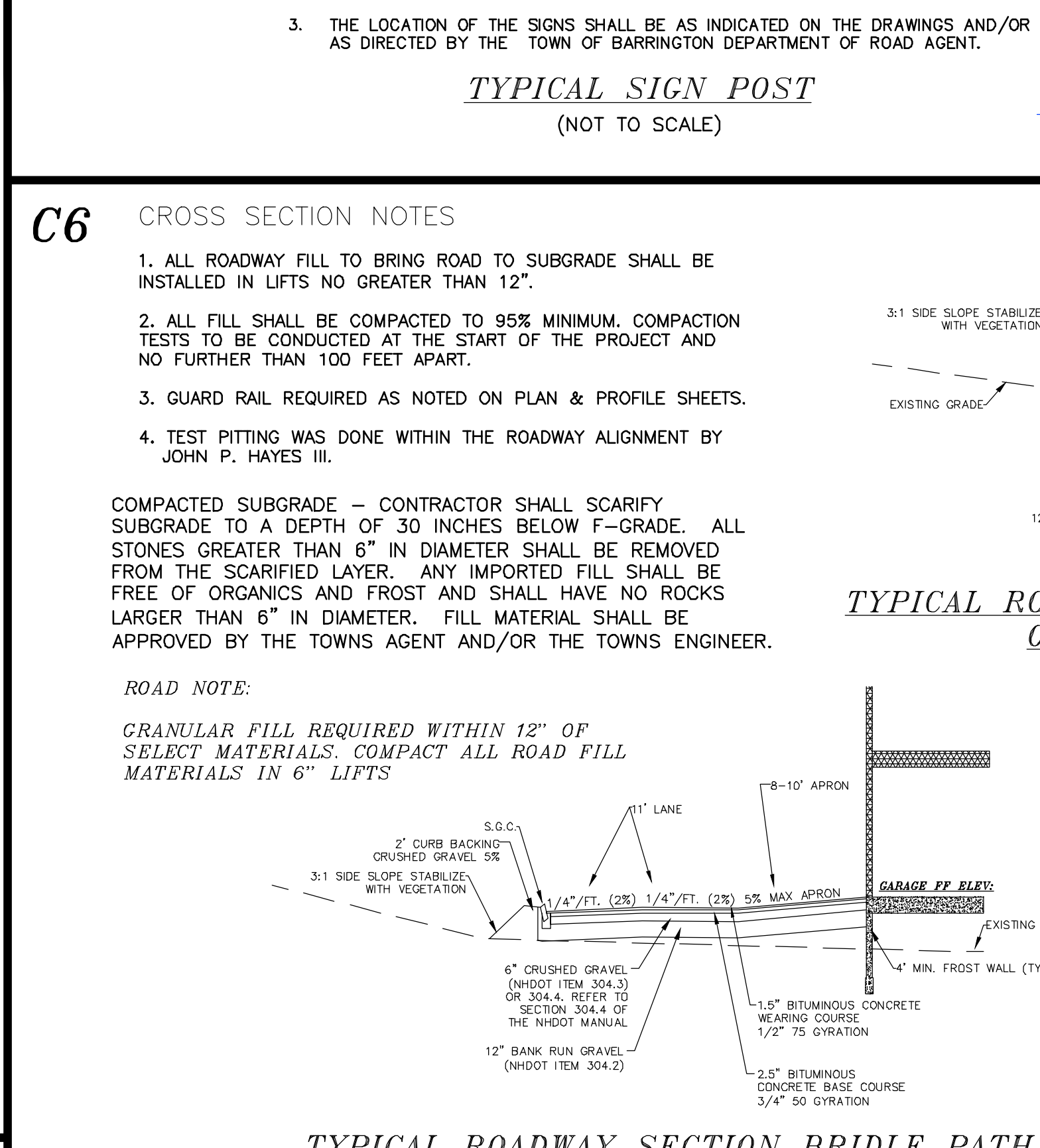


41" SERIES BLOCKS

<p>Top - 28" Volume = 8.55 cft Weight = ±1223 lbs C of G = 15.06"</p>	<p>Half Top - 28" Volume = 4.13 cft Weight = ±591 lbs</p>
<p>Middle - 41" Volume = 16.44 cft Weight = ±2251 lbs C of G = 20.92"</p>	<p>Half Middle - 41" Volume = 7.28 cft Weight = ±1041 lbs</p>
<p>Bottom - 41" Volume = 17.37 cft Weight = ±2483 lbs C of G = 21.3"</p>	<p>Half Bottom - 41" Volume = 7.73 cft Weight = ±1105 lbs</p>

Redi-Rock® International, LLC
RETAINING WALL DETAIL
NOT TO SCALE

NOTE: RETAINING WALL TO BE DESIGNED BY A LICENSED PROFESSIONAL GEOTECHNICAL/STRUCTURAL ENGINEER.



FOR PLANNING BOARD APPROVAL PURPOSES:

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KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER

C-101

REVISED PER CMA ENGINEERS REVIEW	DESCRIPTION
#1	11-8-23
REVISION	DATE

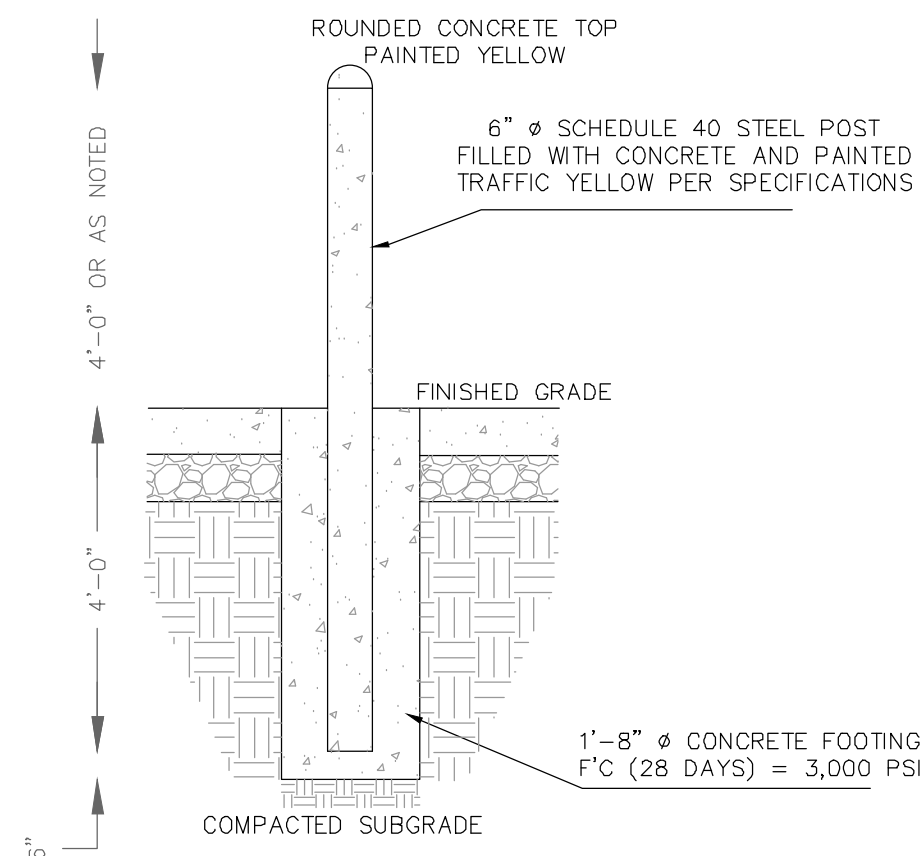
CONSTRUCTION DETAILS
LAND OF
HAWBONE LLC
49 WINKLE POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163

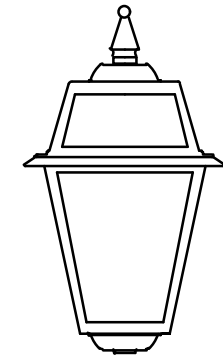
SHEET 22 OF 31

C7




BOLLARD DETAIL
NOT TO SCALE

C8



TYPICAL RESIDENTIAL LAMP
MOUNTED AT 6 OR 16' +/- AS SHOWN
NOT TO SCALE



D-Series Size 1 Solar LED Area Luminaire

Specifications

EPA: 1.01 ft (0.09 m)
Length: 33" (83.8 cm)
Width: 13" (33.0 cm)
Height: 7-1/2" (19.0 cm)
Weight (max): 27 lbs (12.2 kg)

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density.

Catalog Number: _____
Notes: _____
Type: _____

18-180: 18-180 series enter this page to see all 18-180 series products.

Ordering Information

Order	LED	Color Temperature	Beam Spread	Package	Mounting	Other options	Finish options
DSX1 LED	Forward optics P1 11000 lumens	30K 3000K 40K 4000K 50K 5000K	T15 Type I short T25 Type I short T30 Type I medium T35 Type I short T3M Type II medium T4M Type IV medium T17M Forward flow medium T19S Type V short T25 Type V short T3M Type V medium T30M Type V wide BIC Backlight control LCCO Led center control RCCO Right center control	24 VDC SOLAR 24 VDC 24 Volt DC others? Compare with Soligo Solar!	SPA Separate pole mounting RPA Round pole mounting WPA Wall bracket SPMBA Separate pole universal mounting adapter* RPMBA Round pole universal mounting adapter*	IS Happy-side panel** BBA Bay Arm (America's Act Compliant)	DDBD Dark bronze BLBD Black SABD Natural aluminum WABD White DBBD Textured dark bronze BLBD Textured black SABD Textured natural aluminum WABD Textured white

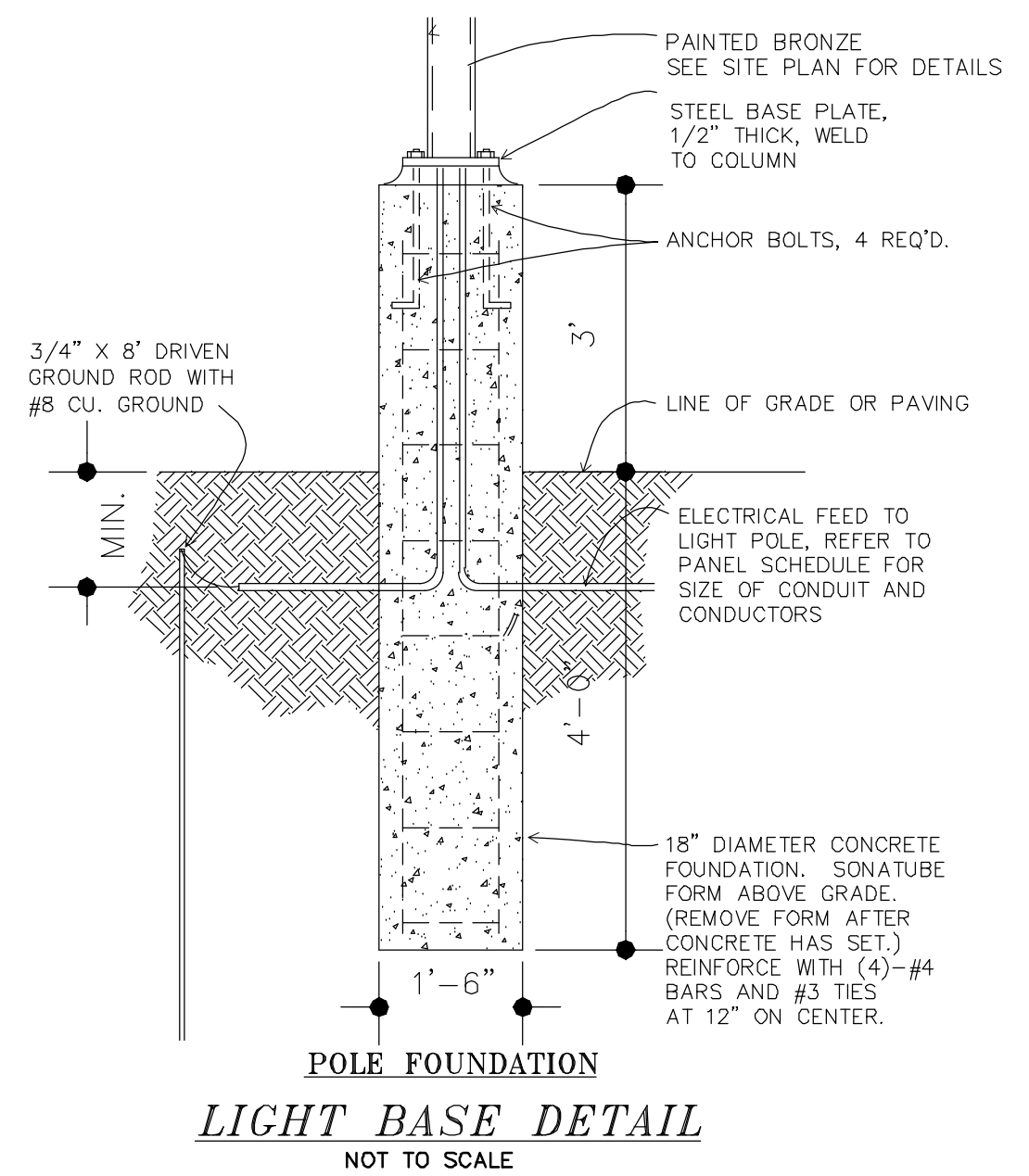
EXAMPLE: DSX1 LED P1 40K T3M SOLAR SPA DDBD

NOTES

- Not available with HT.
- Substitutable for use with 24Vdc DC systems only. Owner is responsible for confirming that luminaire will work with your system.
- No driver included, compatible with Soligo Solar solar panel.
- Available as a separate combination accessory (DSX1000) Black LL.
- For more detailed mounting points and details visit www.lithonia.com.
- Also available as separate accessories, see accessories information.
- Not available with BIC, LCCO or RCCO.

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-305-SERV (7278) • www.lithonia.com DSX1-LED Special Order Rev. 02/17/21 Page 1 of 3

TYPICAL POLE LAMP
MOUNTED AT 14' AS SHOWN
NOT TO SCALE



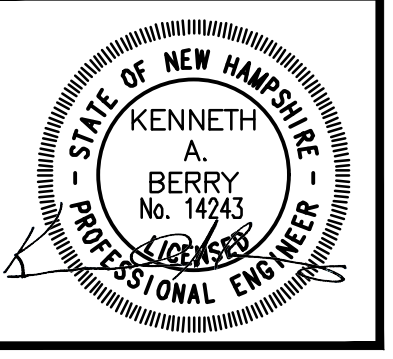
POLE FOUNDATION
LIGHT BASE DETAIL
NOT TO SCALE

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

C-102

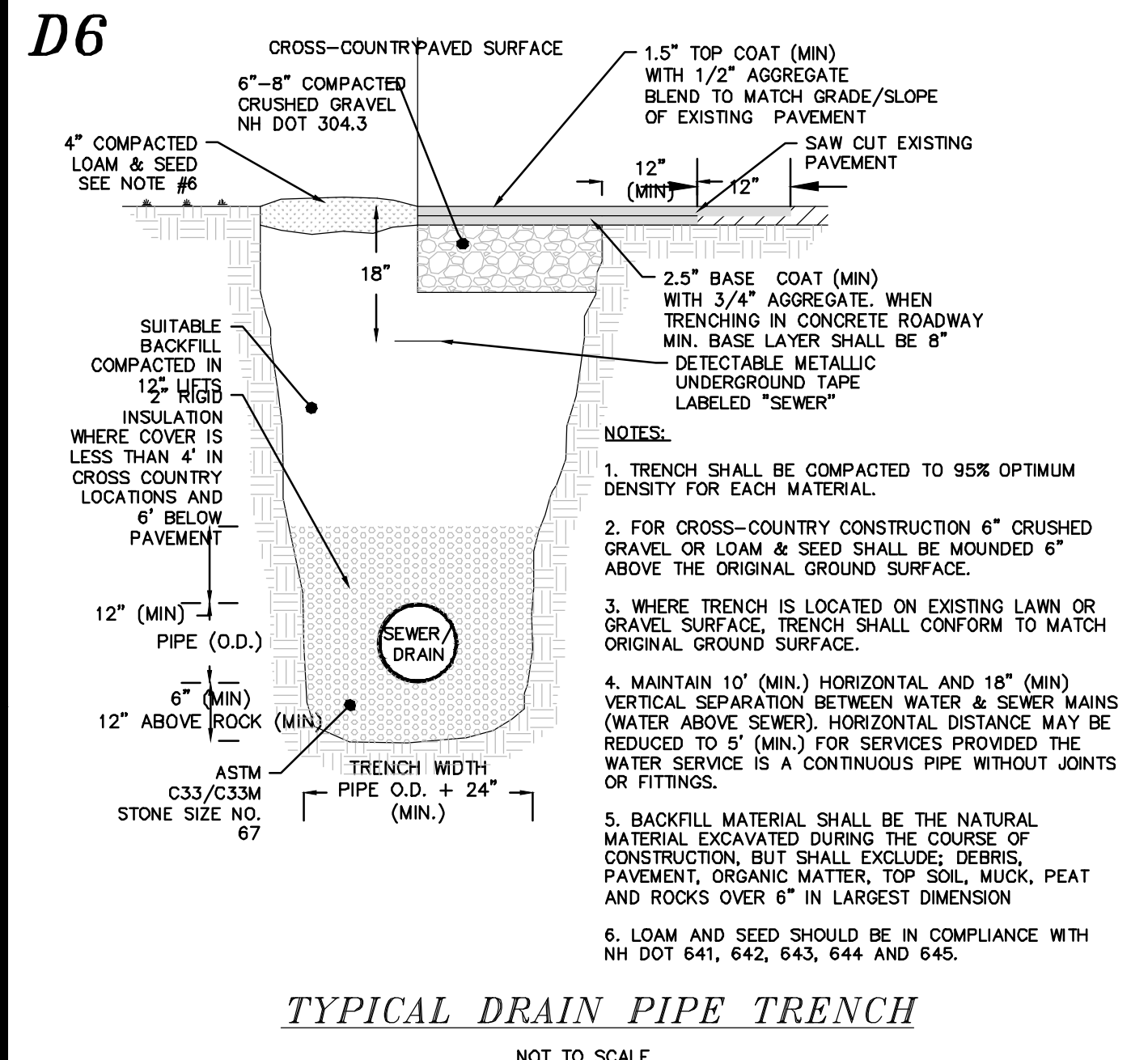
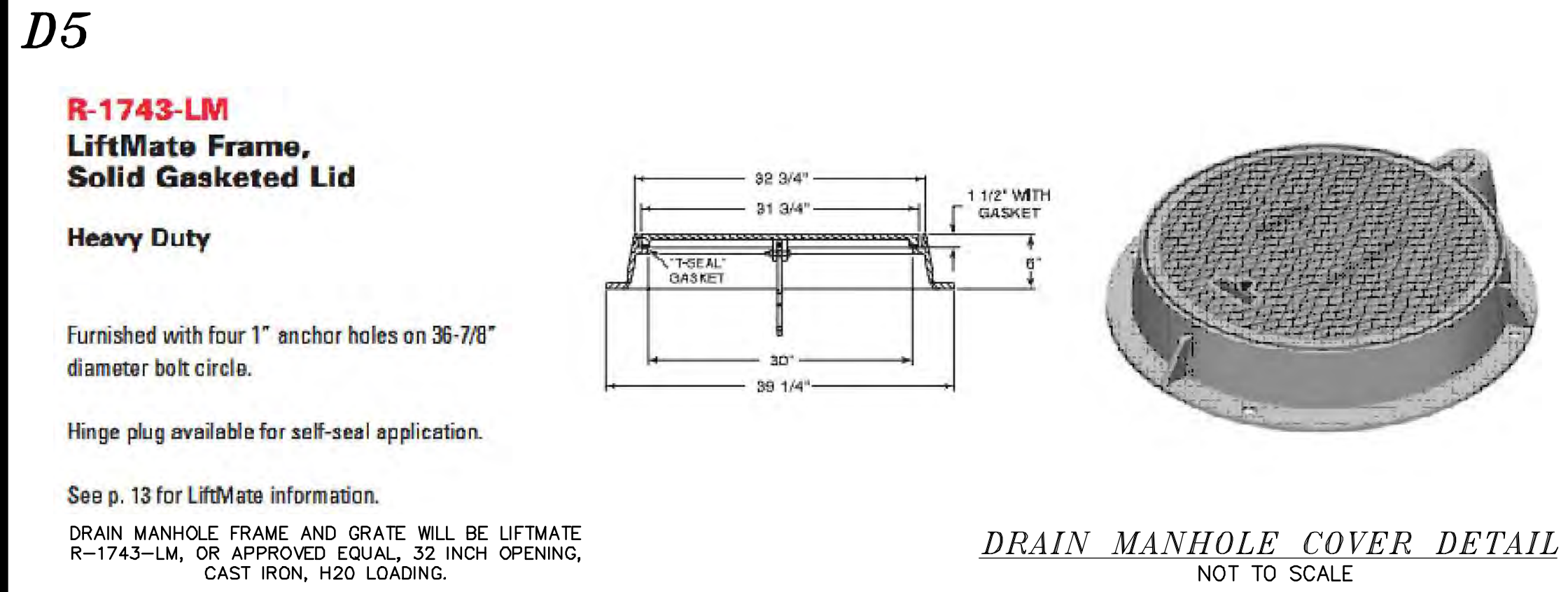
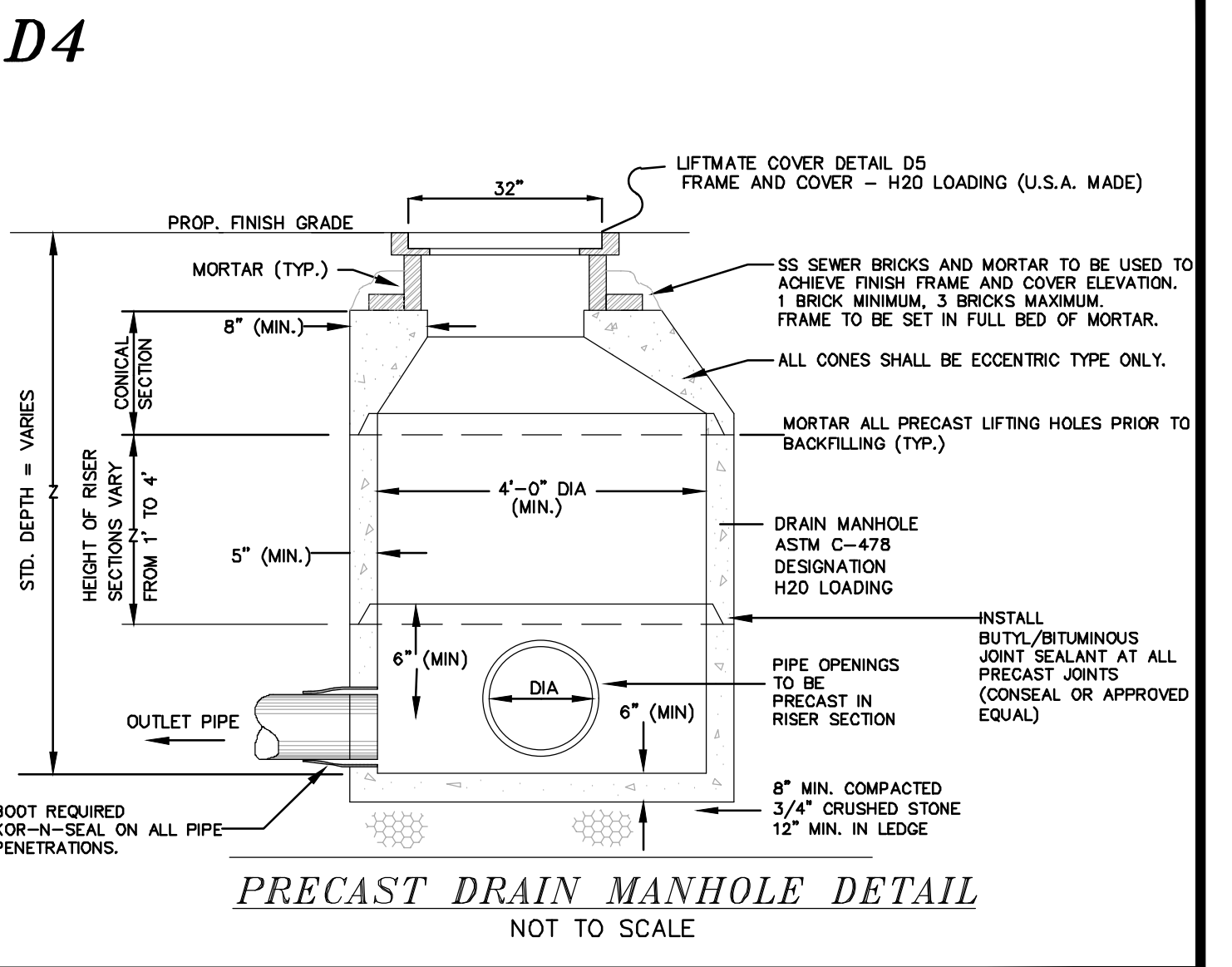
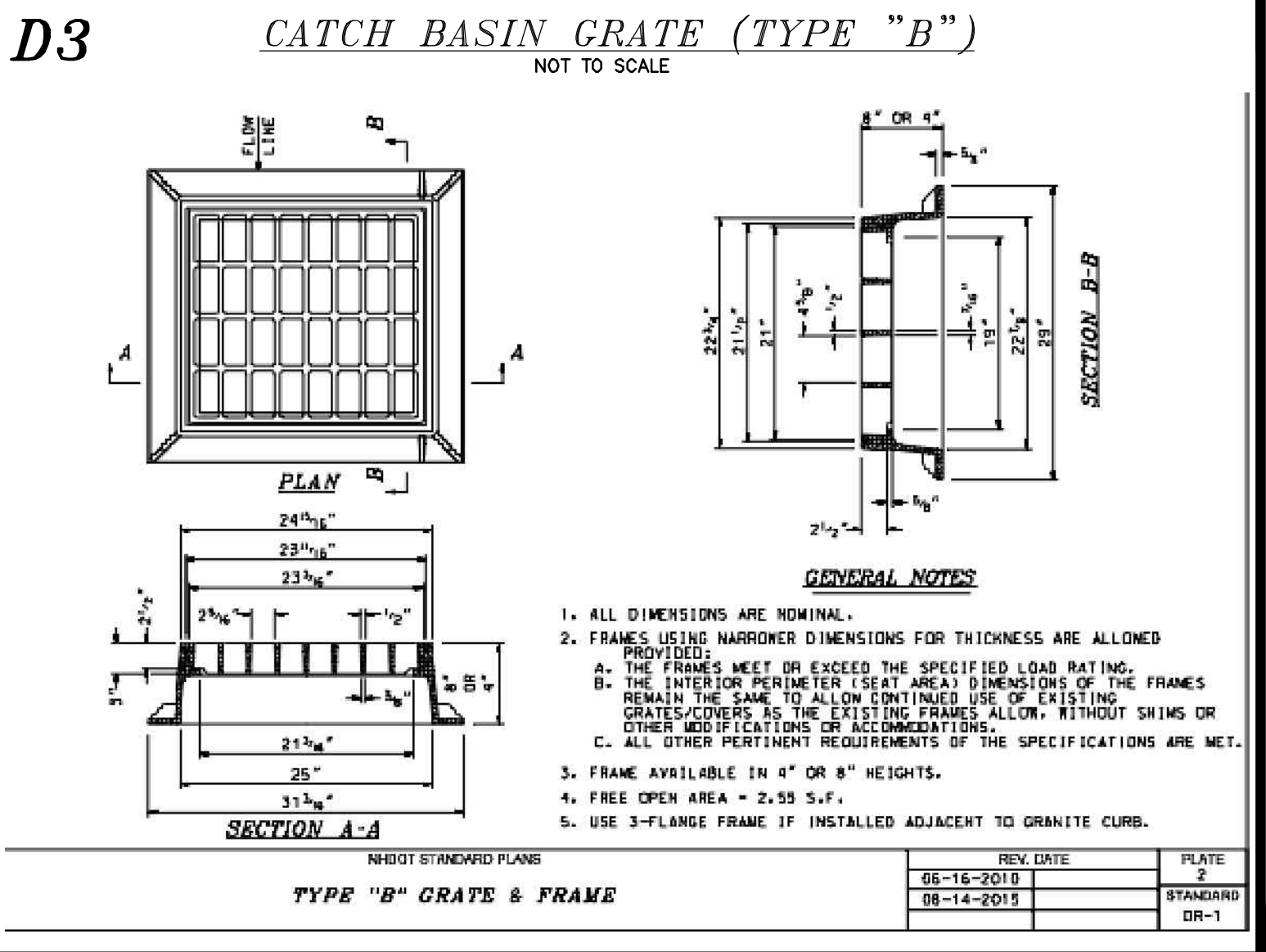
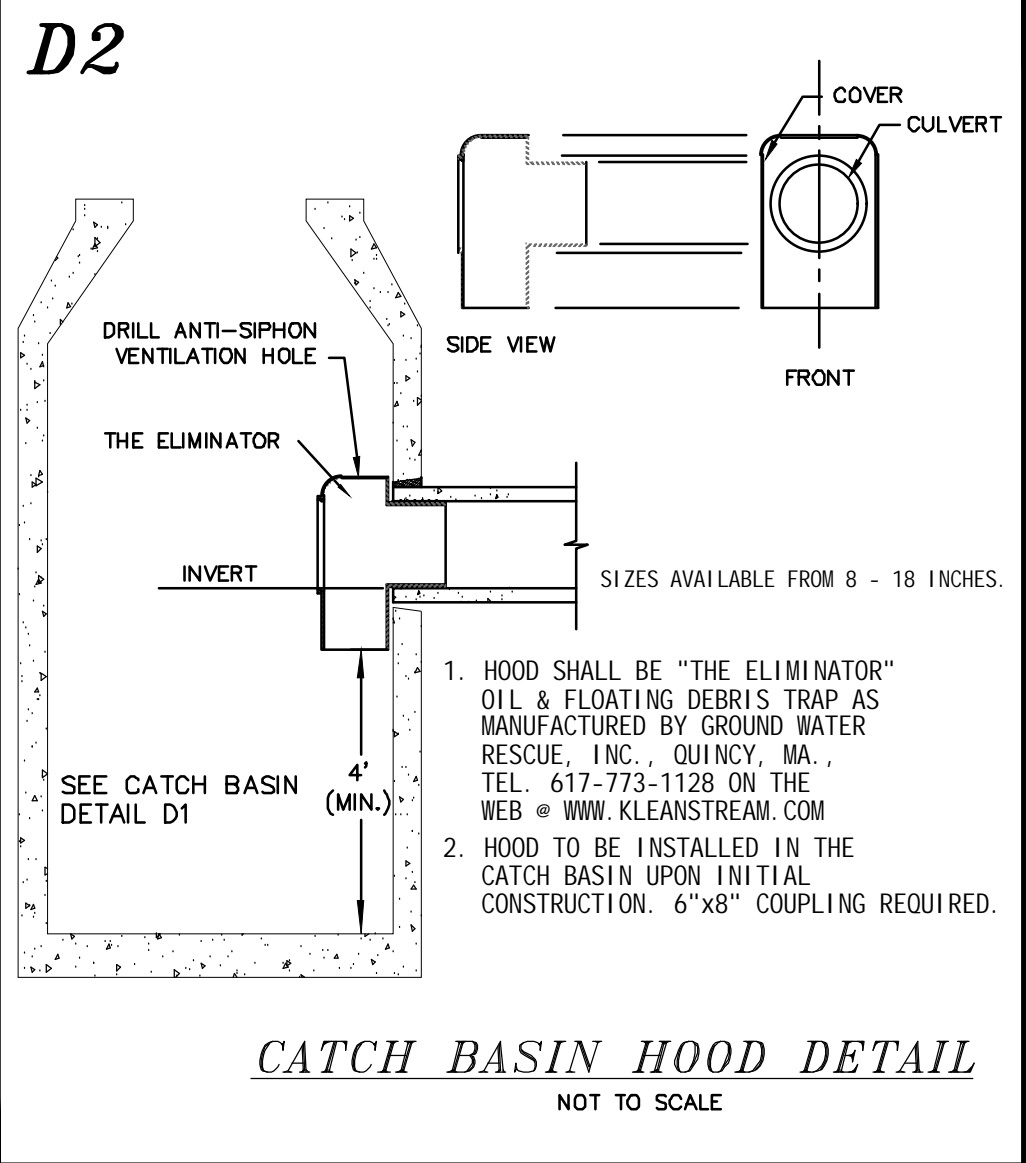
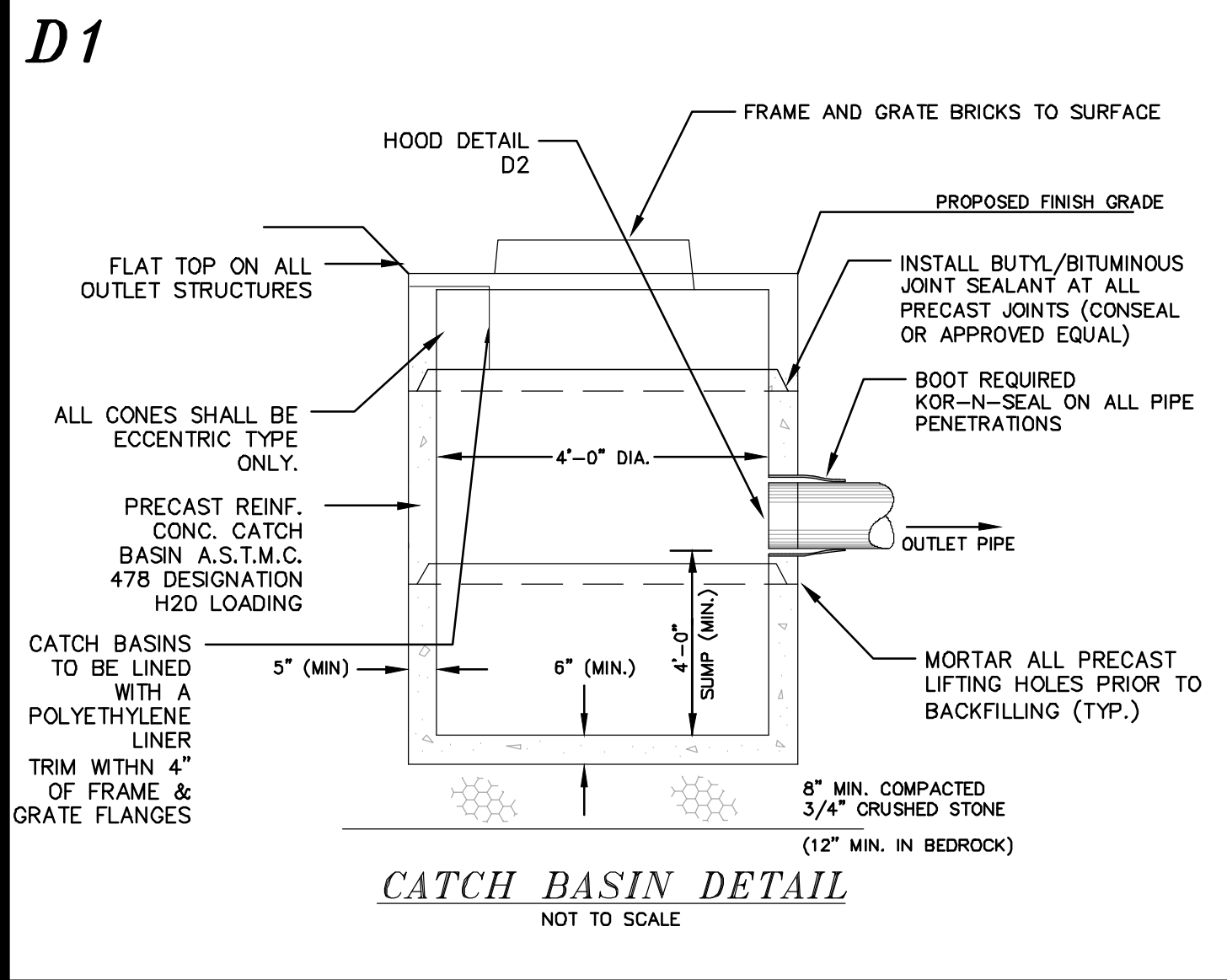
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
AS NOTED
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163



SHEET 23 OF 31

CONSTRUCTION DETAILS
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

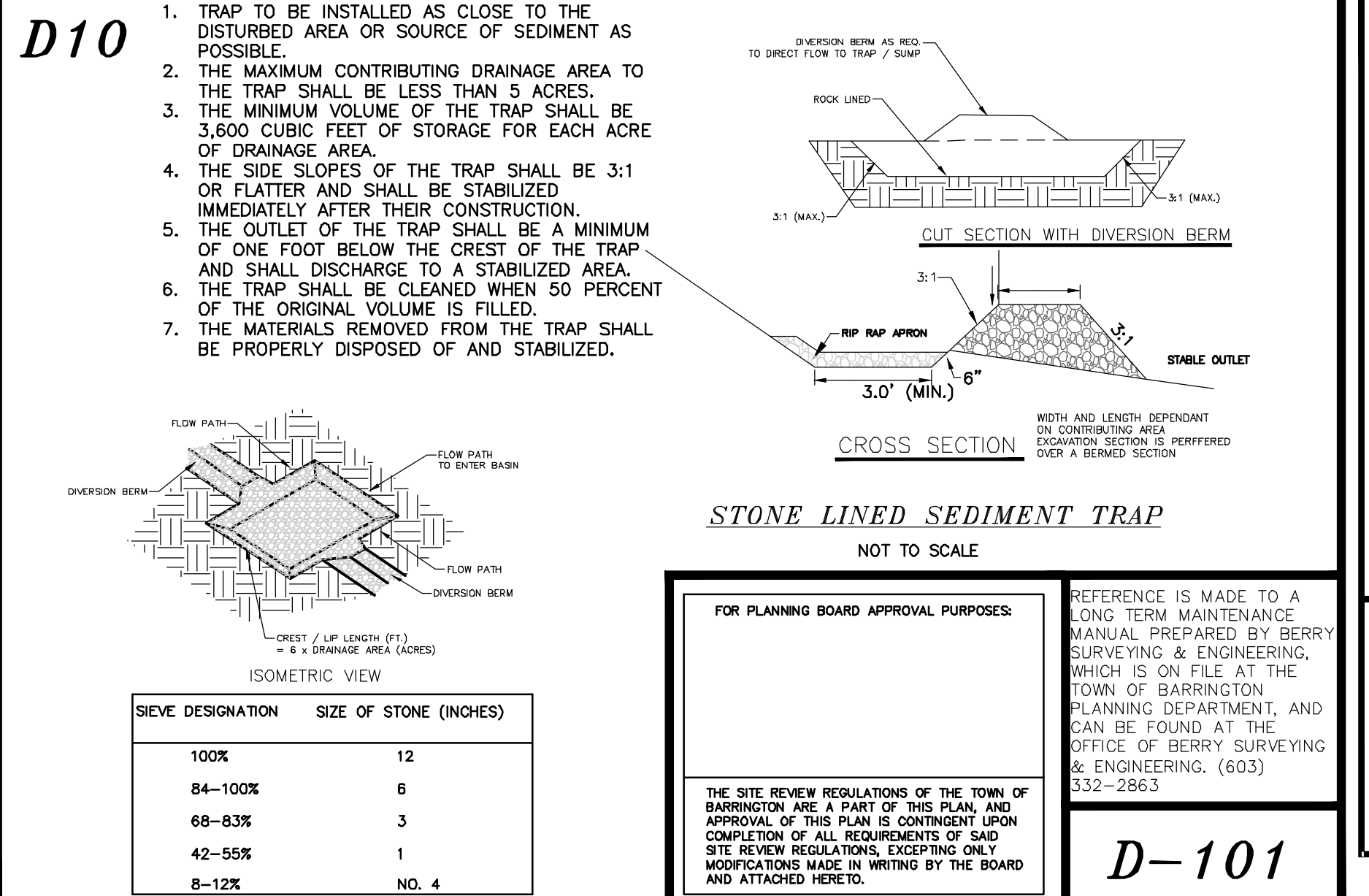
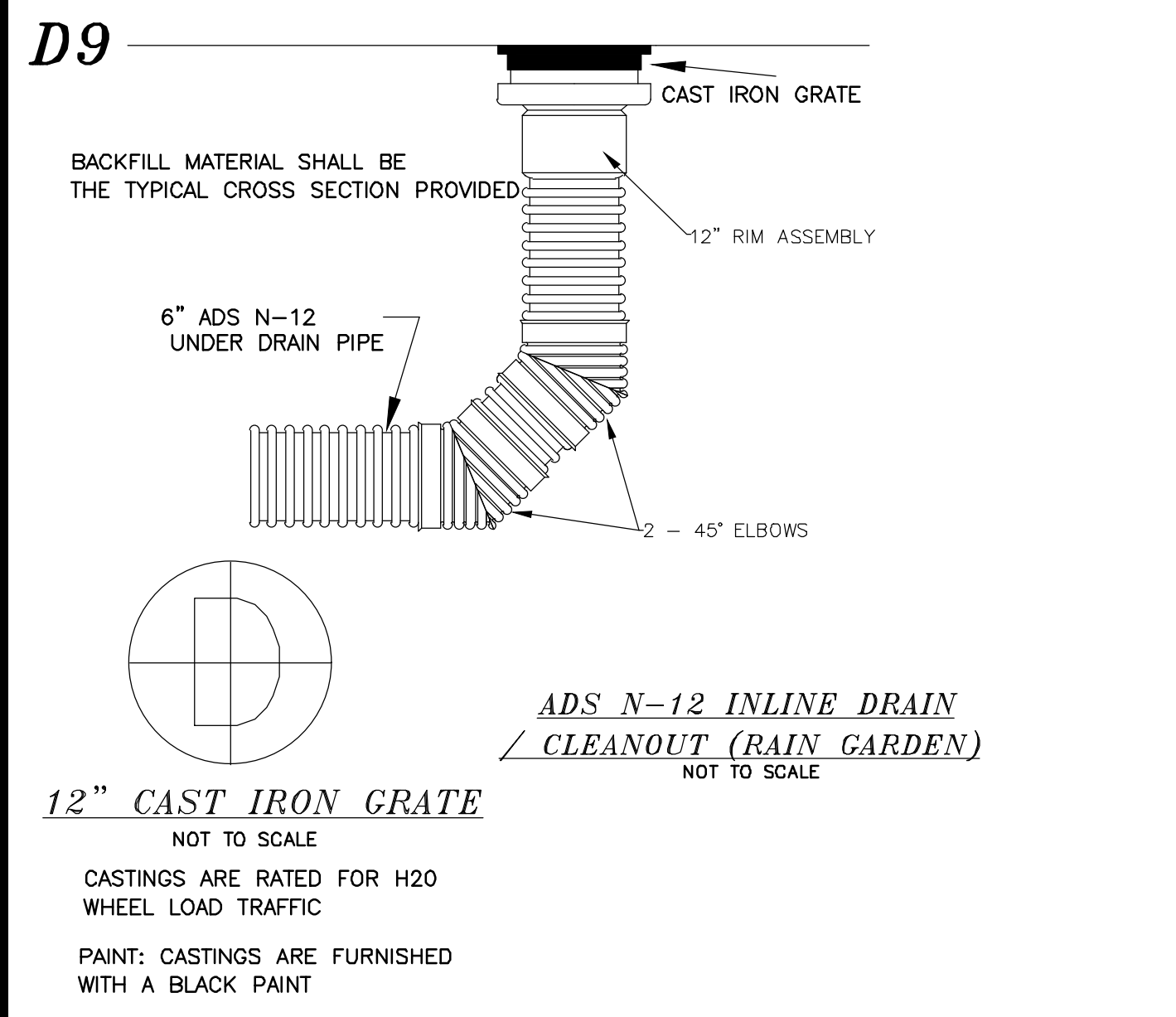
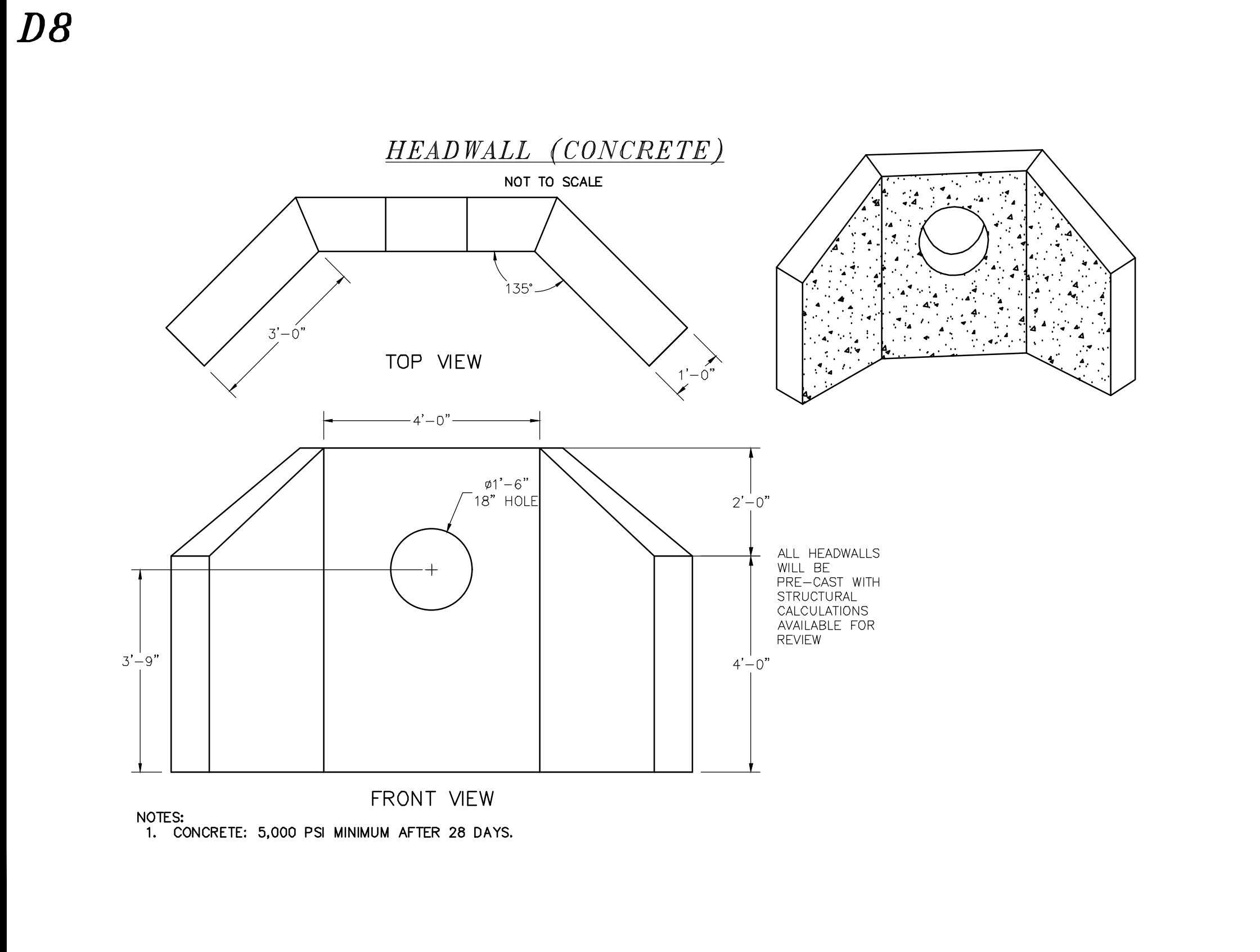


D7 ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)

PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15"	6.5"	10"	6.5"	25"	29"
1810-NP	18"	7.5"	15"	6.5"	32"	35"
2410-NP	24"	10.5"	18"	6.5"	36"	45"
3010-NP	30"	10.5"	N/A	7.0"	53"	68"
3610-NP	36"	10.5"	N/A	7.0"	53"	68"

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



#1	REVISION	DATE	DESCRIPTION
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DRAINAGE CONSTRUCTION DETAILS
 LAND OF
 HAWBONE LLC
 49 WINKLE POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE: AS NOTED
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STATE OF NEW HAMPSHIRE
 KENNETH A. BERRY
 No. 14243
 LICENSED PROFESSIONAL ENGINEER

D-101

D11 ANGLE GRATE
NOT TO SCALE

NOTE:
MUST BE HAALA INDUSTRIES INC.
OR EQUAL.

Angle Grates For Manholes



AG0808-58
Part No. AG0808-58

Save Trees

Angle Grates are designed to cover inlet orifices and prevent small to medium debris from passing through. The top angled design helps to minimize the amount of debris that settles on top after the water recedes. All grates are made from plate for a clean and smooth contact surface.

- Plate design for a clean appearance
- Standard 2" openings (other sizes can be made)
- Angled topfront plate to maximize debris deflection
- Mounting flanges on 3 sides allows grate to be mounted at floor level inverts
- Galvanized steel construction. Can be made from aluminum or stainless steel.

D12 CONE GRATE
NOT TO SCALE

NOTE:
MUST BE HAALA INDUSTRIES INC.
OR EQUAL.

Cone Grates Top Mount



CG12TM
Part No. CG12TM

Save Trees

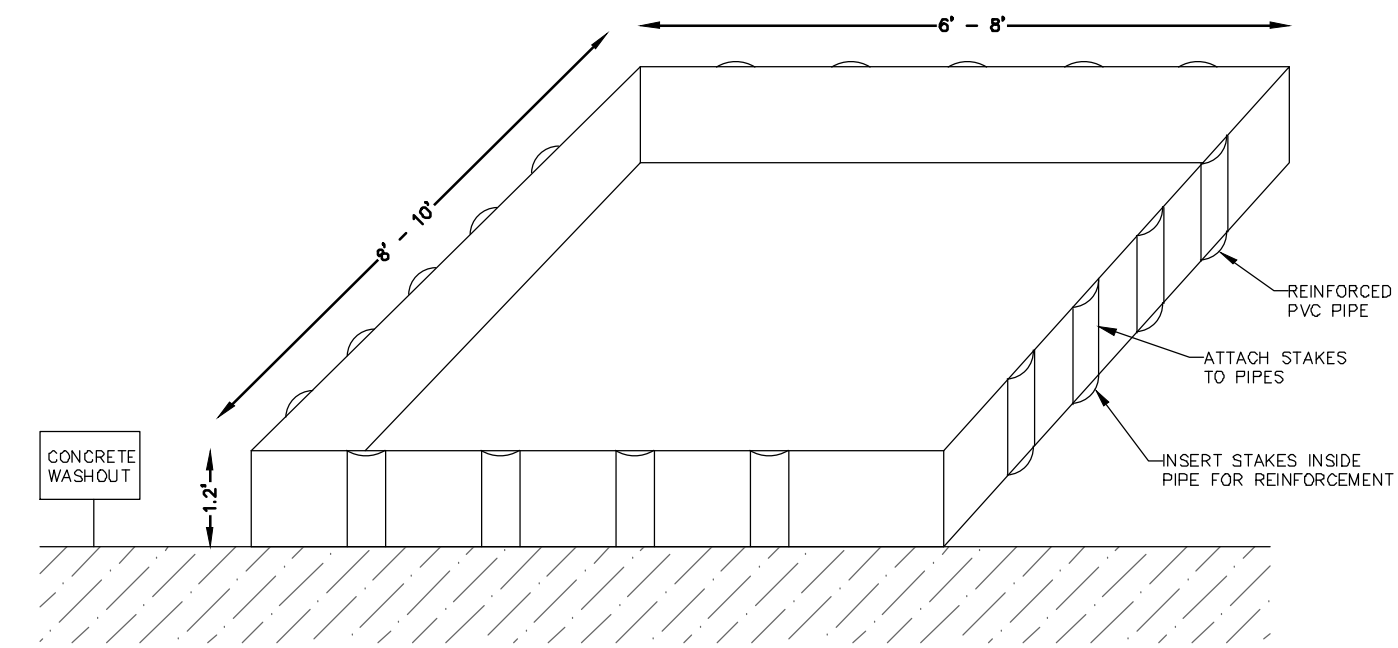
Top Mount Cone Grates are designed to mount on the top of round manhole inlet or outlet structures to keep debris from entering the storm water system. Top mount cone grates are easy to install and allow for at grade manhole installations but can be used in a variety of applications. Grates 96" and larger are made as a two piece, bolt together design.

- Plate and bar hybrid design is both clean and cost effective
- Made from 1/2" plate with 3/4" or 1" round bars depending on grate size
- Anti vortex plate can be added upon request
- Hinged and lockable access doors can be added upon request
- Galvanized steel construction. Can be made from aluminum or stainless steel.

D13 48" MANHOLE ROUND EXTENDED BASE
NOT TO SCALE

Missing or invalid reference
File: M:\Technical\Engineering Design\Anti-Floatation\ExtBase4ID.pdf
Sheet: 1

D14

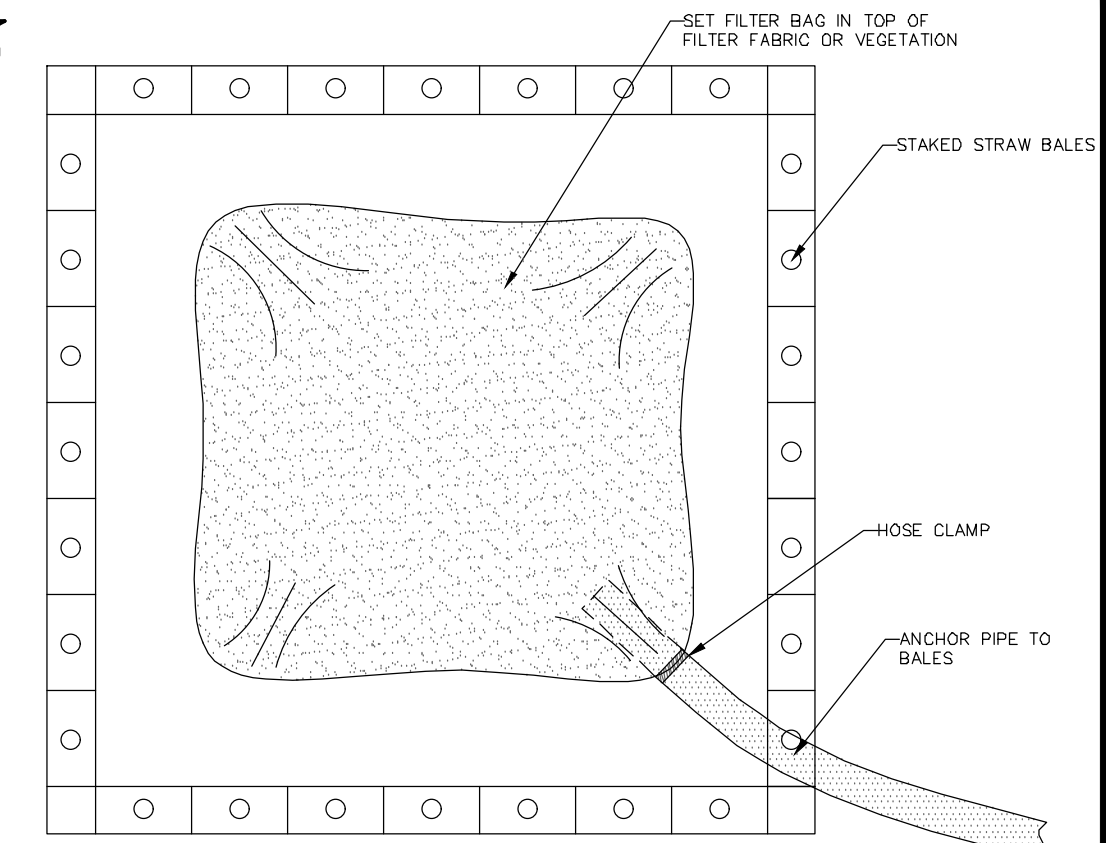


NOTES:

- 1.) CONCRETE WASHOUT SHALL BE INSTALLED PRIOR TO ANY CONCRETE POURS.
- 2.) SIGNS SHALL BE INSTILLED TO CLEARLY INDICATE WHERE THE LOCATION OF THE WASHOUT AREA IS.
- 3.) CONTRACTOR IS IRRESPONSIBLE TO MAINTAIN AND REPLACE WASHOUT AREA AS NEEDED.
- 4.) RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- 5.) DO NOT WASH CONCRETE TRUCKS OUT INTO DRAINAGE AREAS, SWALES, STREETS OR UNDISTURBED AREAS.
- 6.) WASHOUT AREA SHALL BE PLACED AWAY FROM DRAINAGE FEATURES AND OUTSIDE AND WETLAND BUFFERS.

CONCRETE WASHOUT
NOT TO SCALE

D15



NOTES:

- 1.) ENSURE DISCHARGE POINT IS STABILIZED WITH VEGETATION OR PROPER EROSION AND SEDIMENT CONTROL PRACTICES.
- 2.) USE DIFFUSER NOZZLE OR LOW DISCHARGE RATE TO PREVENT SCOURING.
- 3.) TO BE PLACED AT AN UPLAND LOCATION THAT WILL ALLOW WATER TO DRAIN INTO THE GROUND.
- 4.) SIZE OF DE-WATERING AREA TO BE 10' X 10', ADJUST SIZE DEPENDING ON VOLUME AND USE.
- 5.) ADDITIONAL BALES MAY BE USED TO INCREASE RETENTION AND FILTERING.

DE-WATERING BASIN
NOT TO SCALE

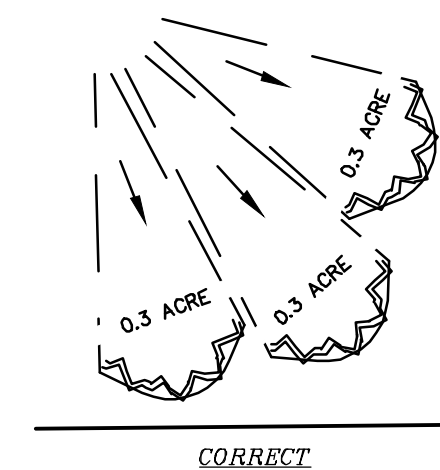
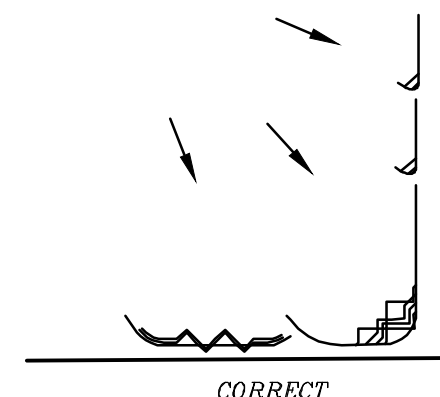
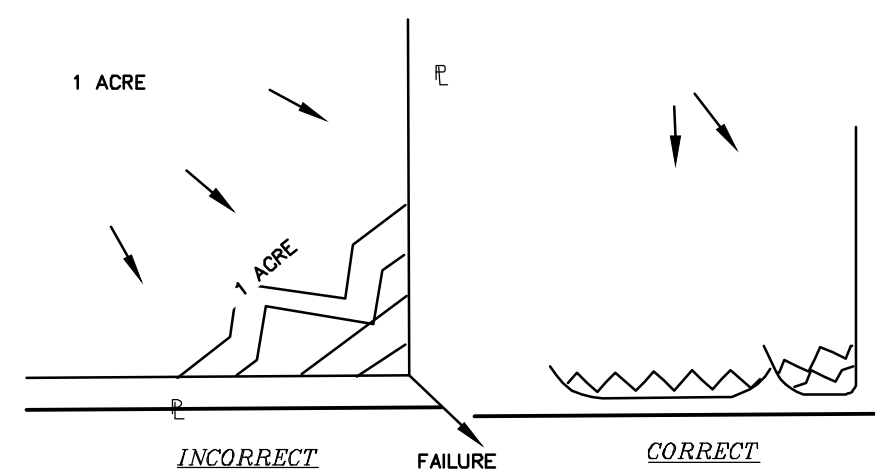
D16 PERIMETER CONTROL
NOT TO SCALE

DESIGN CONSIDERATIONS:

1. THE MAXIMUM LENGTH OF SLOPE ABOVE PERIMETER CONTROL IS 100 FEET.
2. SILT FENCE OR SILT SOXX REQUIRED WHEN UPGRADIENT DISTURBED SOIL IS GREATER THAN 5% (50% SLOPE MAX). MULCH BERM CAN BE USED WHEN THE UPGRADIENT DISTURBED SOIL IS 5% OR LESS.
3. THE MAXIMUM CONTRIBUTING DRAINAGE AREA OF ONE-QUARTER ACRE PER 100-FOOT OF PRACTICE LENGTH.
4. PERIMETER CONTROL IS TO BE INSTALLED PRIOR TO EARTH MOVING ACTIVITIES, INCLUDING GRUBBING AND CLEARING.

NOTES:

1. DO NOT LAYOUT PERIMETER CONTROL ALONG SLOPING PROPERTY PERIMETER WITHOUT INSTALLING "J HOOKS" AT HIGH CONCENTRATION AREAS. RUNOFF WILL CONCENTRATE AND CAUSE FAILURES ALONG THE PERIMETER.
2. "J HOOKS" CAN BE USED TO HELP LIMIT THE CONCENTRATION OF RUNOFF AND PROVIDE MORE STABILITY TO THE PERIMETER.
3. SILT FENCE AND EROSION CONTROL MULCH BERM MAY BE USED INTERCHANGEABLY IN SPECIFIED AREA. SILT FENCE MAY NOT BE SUBSTITUTED FOR FILTREXX SILT SOXX OR APPROVED ALTERNATIVE.
4. SEE HAMPSHIRE STORM WATER MANUAL: VOLUME 3, PAGE 99 FOR FURTHER DETAILS AND SPECIFICATIONS



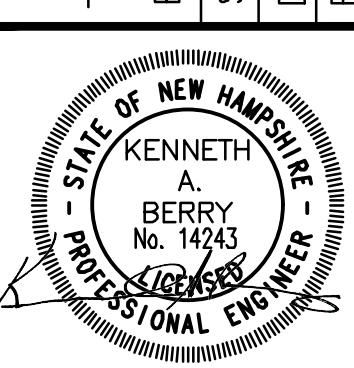
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DRAINAGE CONSTRUCTION DETAILS
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : AS NOTED
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FOR PLANNING BOARD APPROVAL PURPOSES:
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REFERENCE IS MADE TO A LONG TERM MAINTENANCE MANUAL PREPARED BY BERRY SURVEYING & ENGINEERING, WHICH IS ON FILE AT THE TOWN OF BARRINGTON PLANNING DEPARTMENT, AND CAN BE FOUND AT THE OFFICE OF BERRY SURVEYING & ENGINEERING, (603) 332-2863.



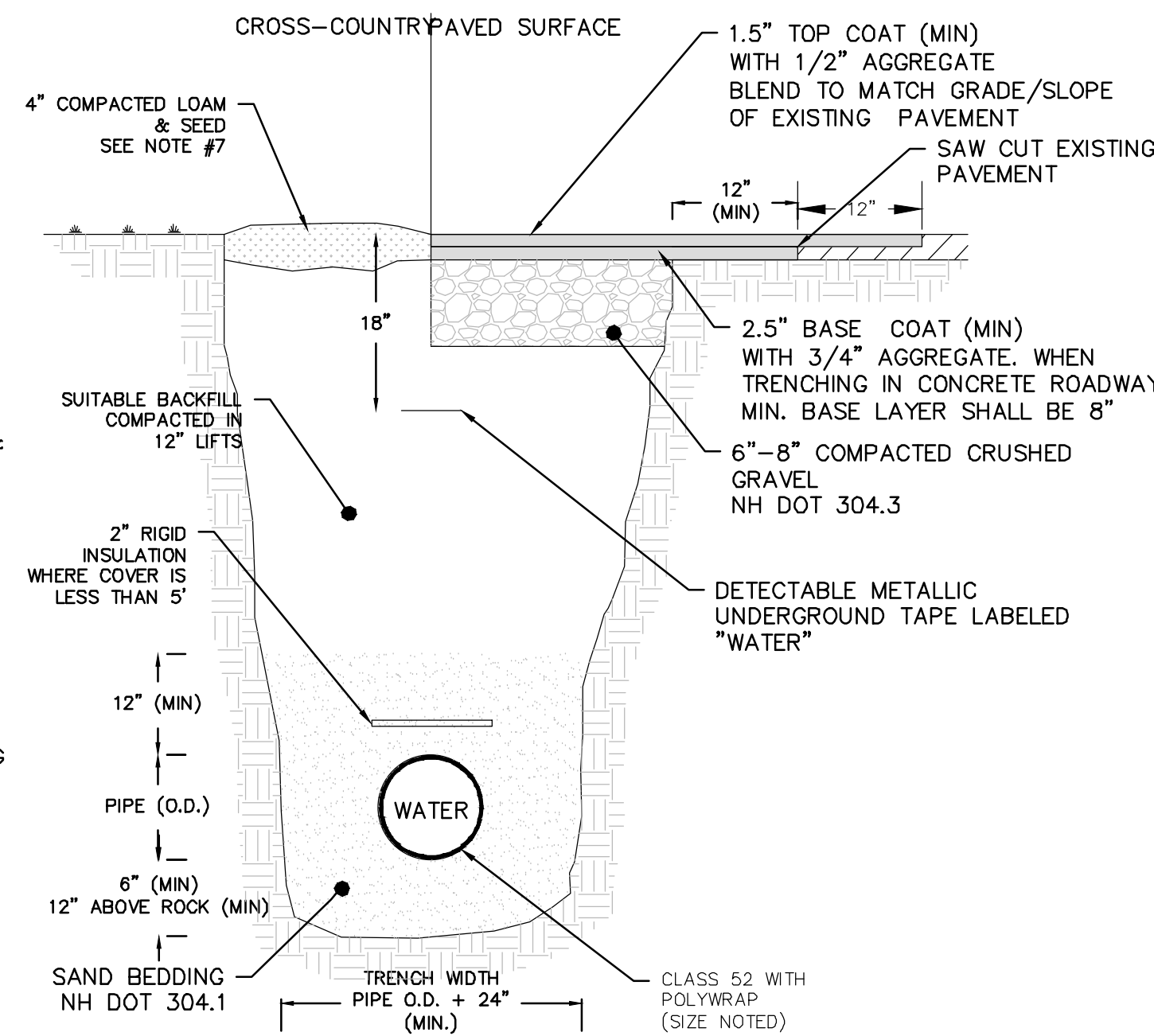
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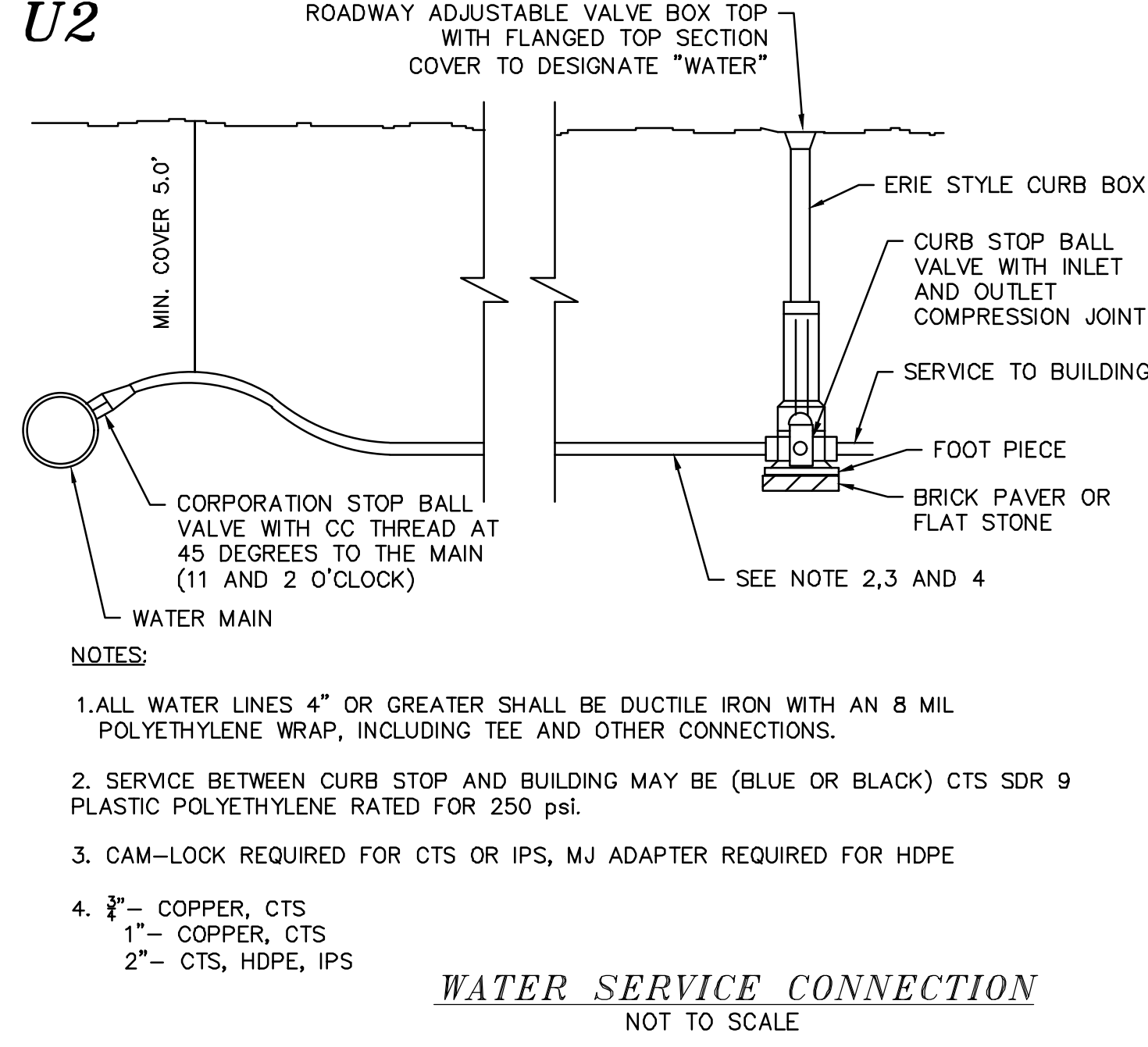
NOTES:

- TRENCH SHALL BE COMPACTED TO 95% OPTIMUM DENSITY FOR EACH MATERIAL.
- FOR CROSS-COUNTRY CONSTRUCTION 6" CRUSHED GRAVEL OR LOAM & SEED SHALL BE MOUNDDED 6" ABOVE THE ORIGINAL GROUND SURFACE.
- WHERE TRENCH IS LOCATED ON EXISTING LAWN OR GRAVEL SURFACE, TRENCH SHALL CONFORM TO MATCH ORIGINAL GROUND SURFACE.
- MAINTAIN 10' (MIN.) HORIZONTAL AND 18" (MIN) VERTICAL SEPARATION BETWEEN WATER & SEWER MAINS (WATER ABOVE SEWER). HORIZONTAL DISTANCE MAY BE REDUCED TO 5' (MIN.) FOR SERVICES PROVIDED THE WATER SERVICE IS A CONTINUOUS PIPE WITHOUT JOINTS OR FITTINGS.
- BACKFILL MATERIAL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE; DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, MUCK, PEAT, AND ROCKS OVER 6" IN LARGEST DIMENSION
- PROVIDE MINIMUM 5' OF COVER. ENGINEERING APPROVAL REQUIRED FOR LESS THAN 5' OF COVER.
- LOAM AND SEED SHOULD BE IN COMPLIANCE WITH NH DOT 641, 642, 643, 644 AND 645.

WATER PIPE TRENCH
NOT TO SCALE



U2

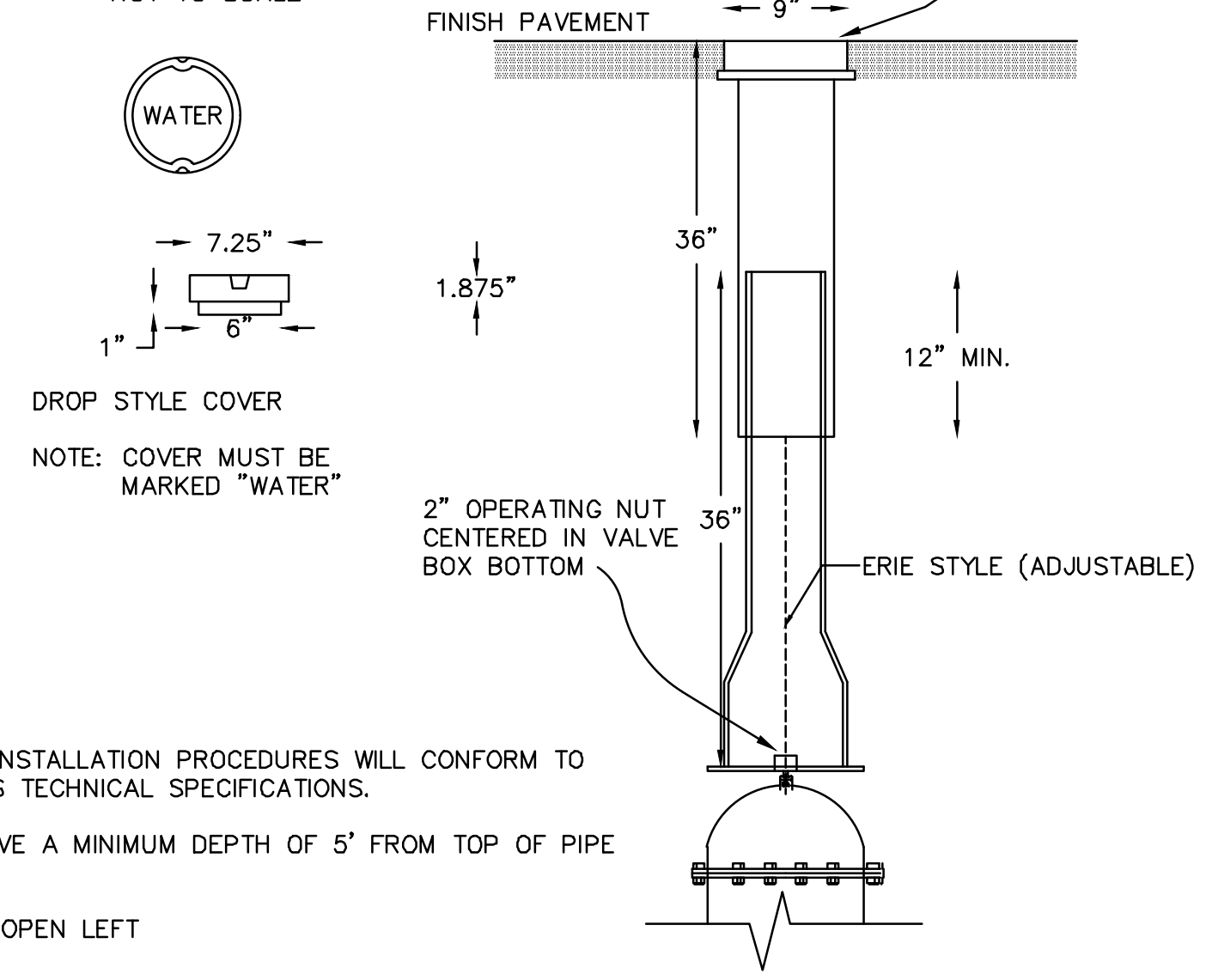


WATER SERVICE CONNECTION
NOT TO SCALE

- NOTES:**
- ALL WATER LINES 4" OR GREATER SHALL BE DUCTILE IRON WITH AN 8 MIL POLYETHYLENE WRAP, INCLUDING TEE AND OTHER CONNECTIONS.
 - SERVICE BETWEEN CURB STOP AND BUILDING MAY BE (BLUE OR BLACK) CTS SDR 9 PLASTIC POLYETHYLENE RATED FOR 250 PSI.
 - CAM-LOCK REQUIRED FOR CTS OR IPS, MJ ADAPTER REQUIRED FOR HDPE
 - 3/4" - COPPER, CTS
1" - COPPER, CTS
2" - CTS, HDPE, IPS

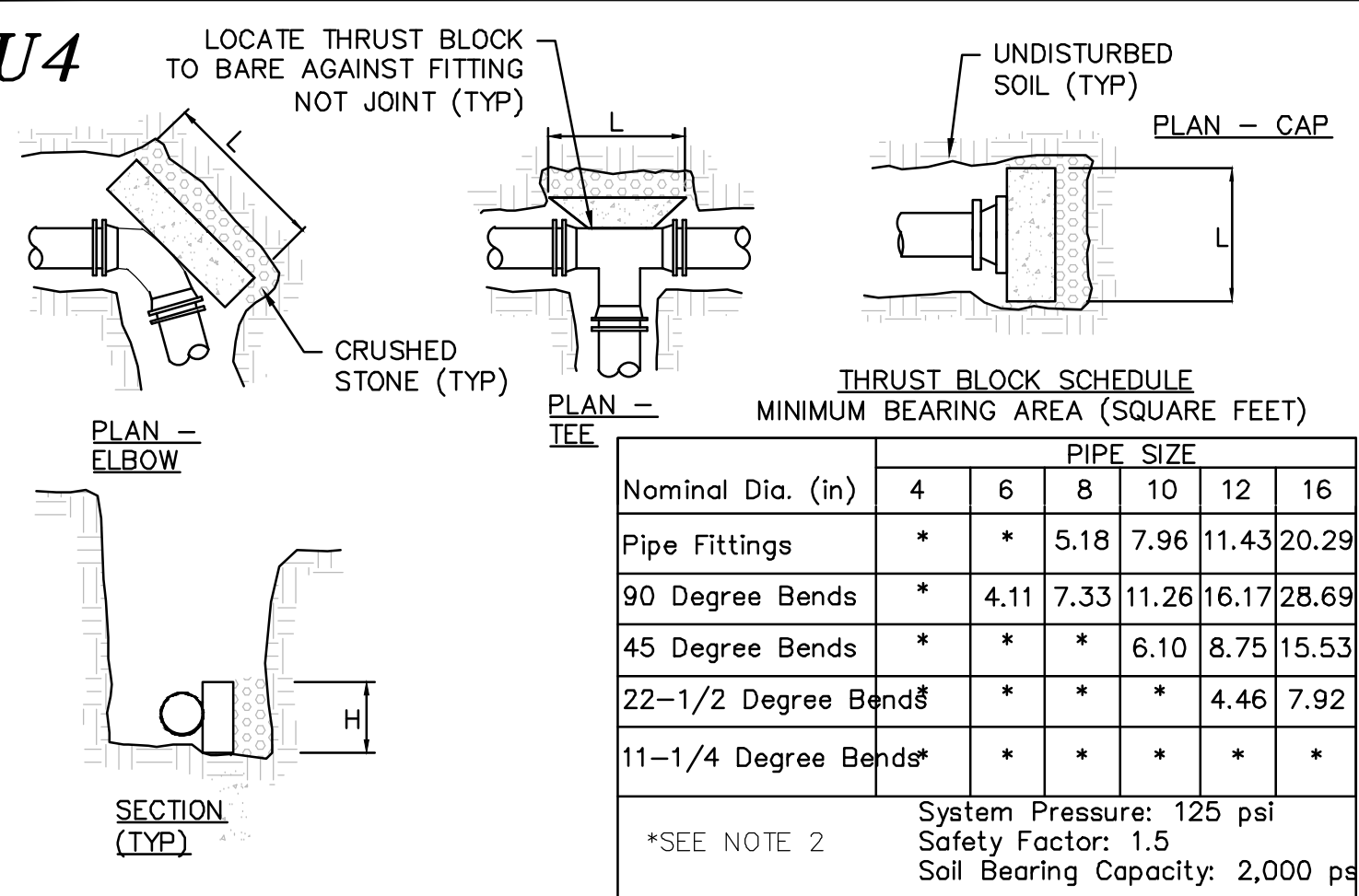
U3

VALVE BOX DETAIL
NOT TO SCALE



- NOTES:**
- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO LOCAL WATER WORKS TECHNICAL SPECIFICATIONS.
 - ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
 - ALL VALVES ARE TO OPEN LEFT

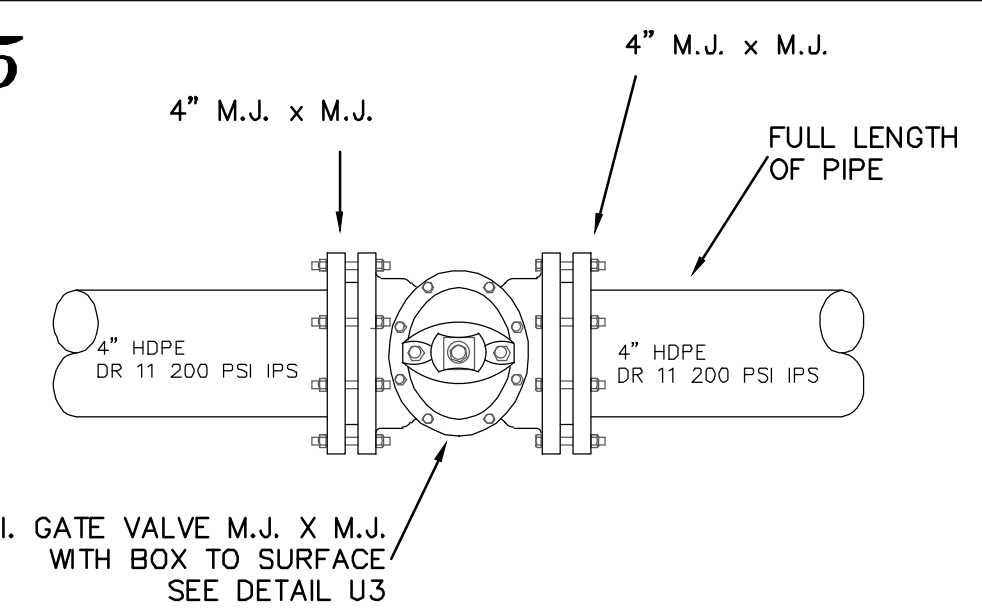
U4



- NOTES:**
- ALL THRUST BLOCKS SHALL BE PRE-CAST CONCRETE UNLESS APPROVED BY THE CITY ENGINEER.
 - 2'X2'X2' MINIMUM THRUST BLOCK REQUIRED, ANY BEARING AREA OVER 4SF REQUIRES THRUST BLOCKS, RESTRAINED JOINTS AND CALCULATIONS ASSOCIATED WITH THE JOINT.
 - THE MINIMUM BEARING AREAS SHOWN IN THE THRUST BLOCK SCHEDULE ARE BASED ON A SYSTEM PRESSURE OF 125 PSI. IF THE SYSTEM PRESSURE IS ABOVE 125 PSI, INCREASE THE NOTED AREAS PROPORTIONALLY TO THE ACTUAL SYSTEM PRESSURE.
 - FOR MINIMUM BEARING AREAS OVER 4 SF, THE LENGTH (L) OF THE BLOCK IS APPROXIMATELY TWICE AS LONG AS THE HEIGHT (H).
 - PLACE CRUSHED STONE BEHIND THRUST BLOCK AGAINST UNDISTURBED SOIL.
 - PLACE THRUST BLOCK ALONG MAXIMUM LENGTH OF THE FITTING TO MAXIMIZE BEARING AREA.
 - CONCRETE COMPRESSIVE STRENGTH: 2,000 PSI MINIMUM.
 - USE OF THRUST BLOCKS DOES NOT ELIMINATE THE REQUIREMENT OF OTHER RESTRAINTS OR VICE VERSA.

THRUST BLOCKS
NOT TO SCALE

U5

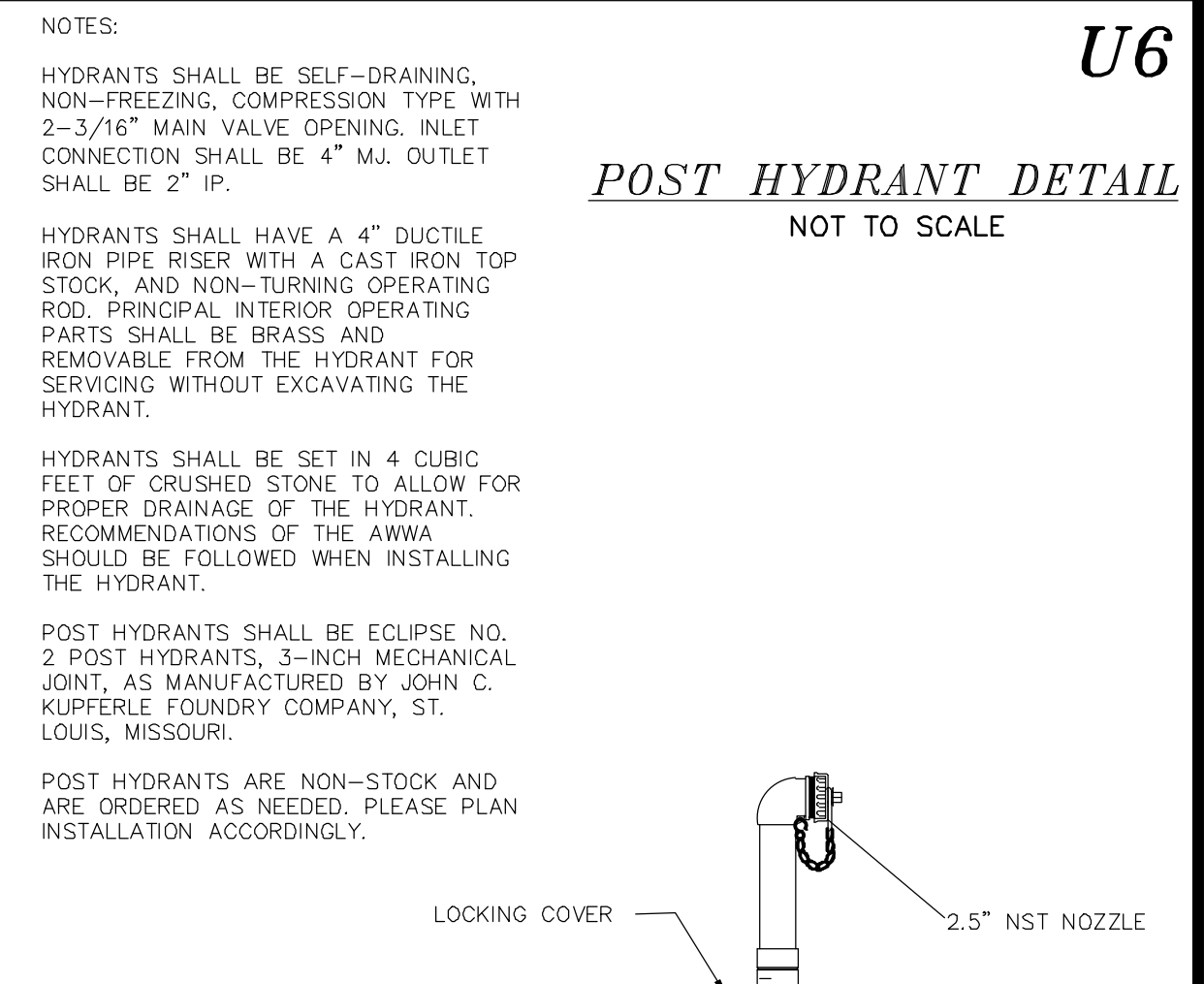


SHUTOFF VALVE DETAIL
NOT TO SCALE

- 1.) ALL VALVES ARE TO OPEN LEFT

U6

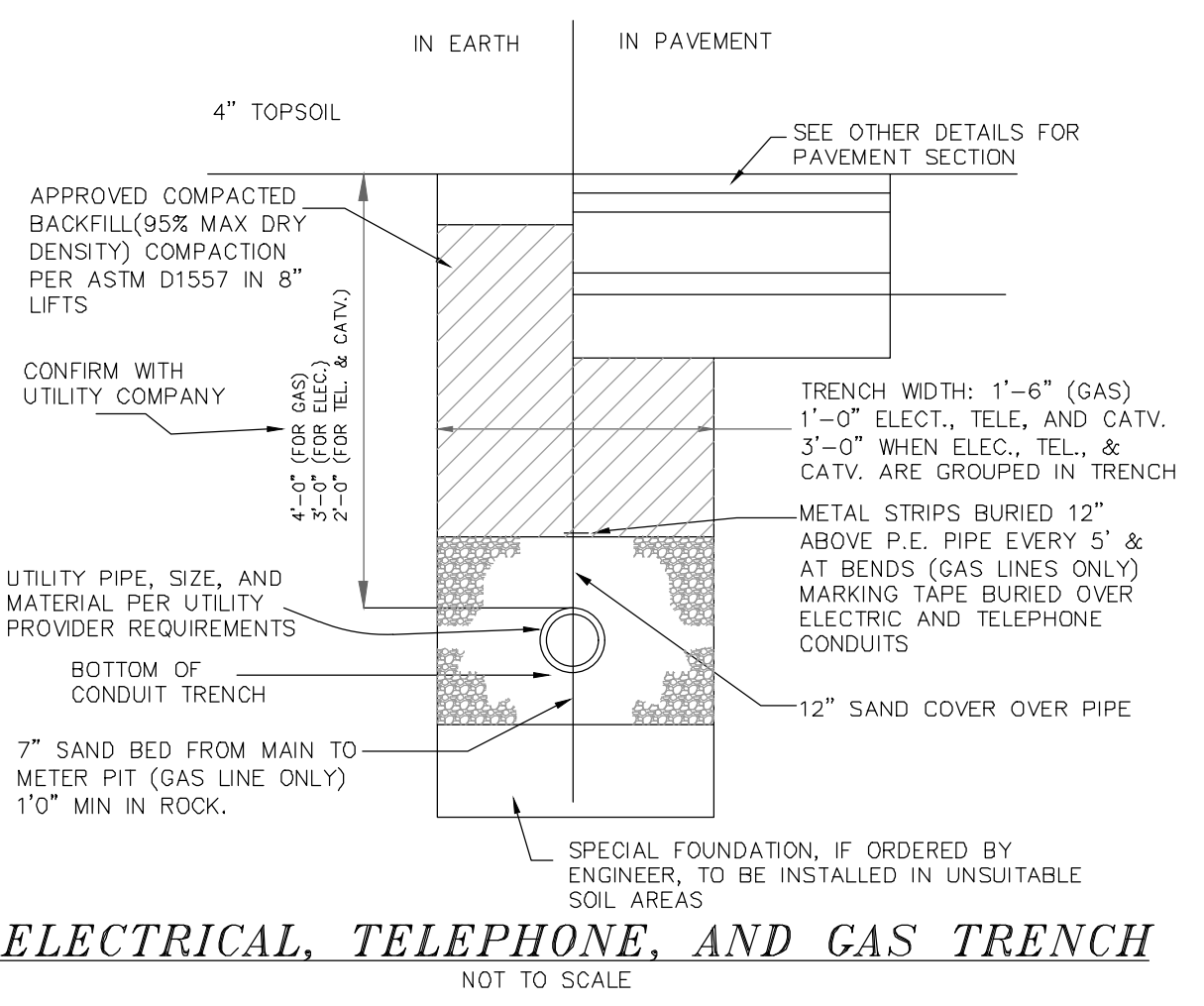
POST HYDRANT DETAIL
NOT TO SCALE



- NOTES:**
- HYDRANTS SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH 2-3/16" MAIN VALVE OPENING. INLET CONNECTION SHALL BE 4" M.J. OUTLET SHALL BE 2" IP.
 - HYDRANTS SHALL HAVE A 4" DUCTILE IRON PIPE RISER WITH A CAST IRON TOP STOCK, AND NON-TURNING OPERATING ROD. PRINCIPAL INTERIOR OPERATING PARTS SHALL BE BRASS AND REMOVABLE FROM THE HYDRANT FOR SERVICING WITHOUT EXCAVATING THE HYDRANT.
 - HYDRANTS SHALL BE SET IN 4 CUBIC FEET OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF THE HYDRANT. RECOMMENDATIONS OF THE AWWA SHOULD BE FOLLOWED WHEN INSTALLING THE HYDRANT.
 - POST HYDRANTS SHALL BE EQUIPSE NO. 2 POST HYDRANTS, 3-INCH MECHANICAL JOINT, AS MANUFACTURED BY JOHN C. KUPFERLE FOUNDRY COMPANY, ST. LOUIS, MISSOURI.
 - POST HYDRANTS ARE NON-STOCK AND ARE ORDERED AS NEEDED. PLEASE PLAN INSTALLATION ACCORDINGLY.

UTILITY CONSTRUCTION DETAILS
LAND OF
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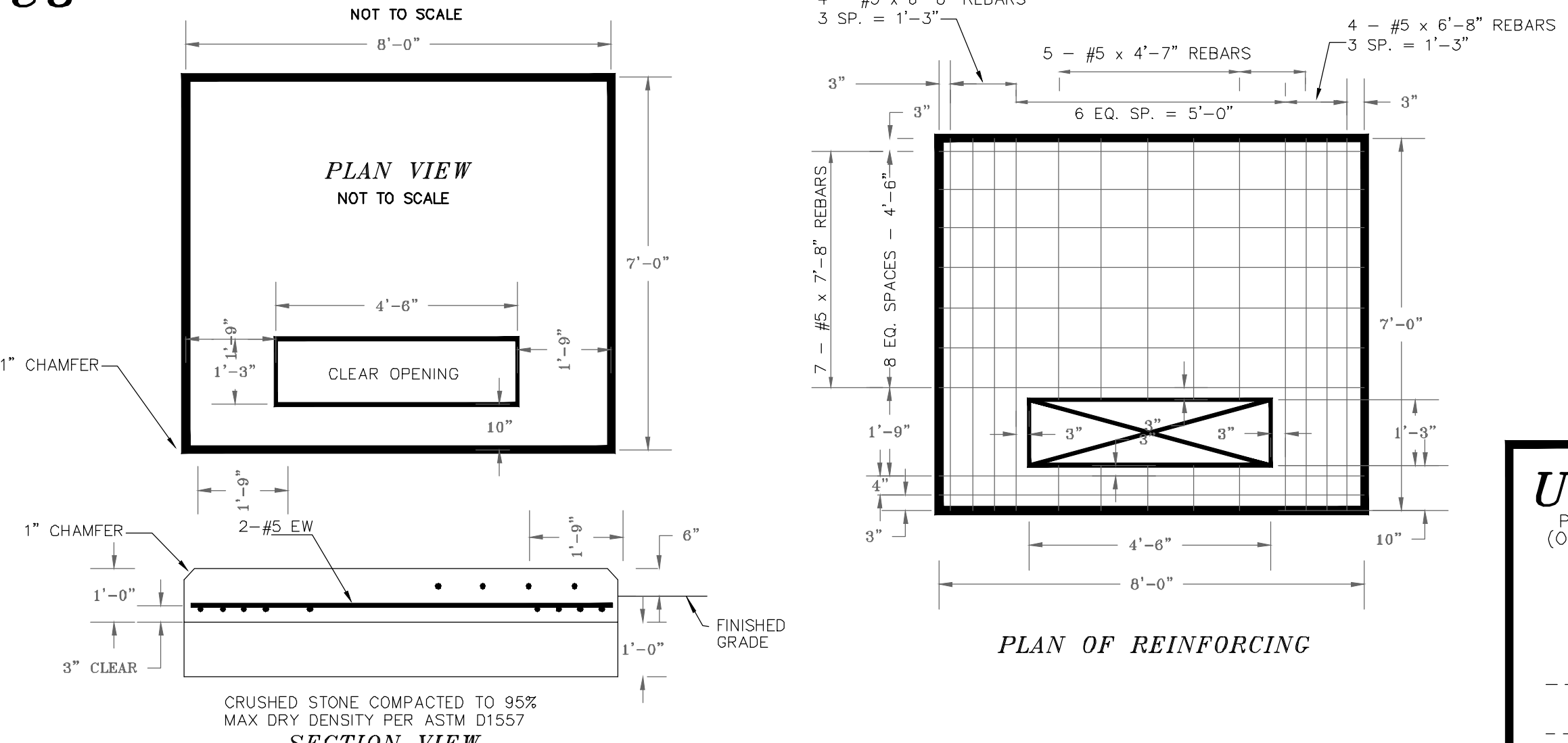
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ELECTRICAL, TELEPHONE, AND GAS TRENCH
NOT TO SCALE

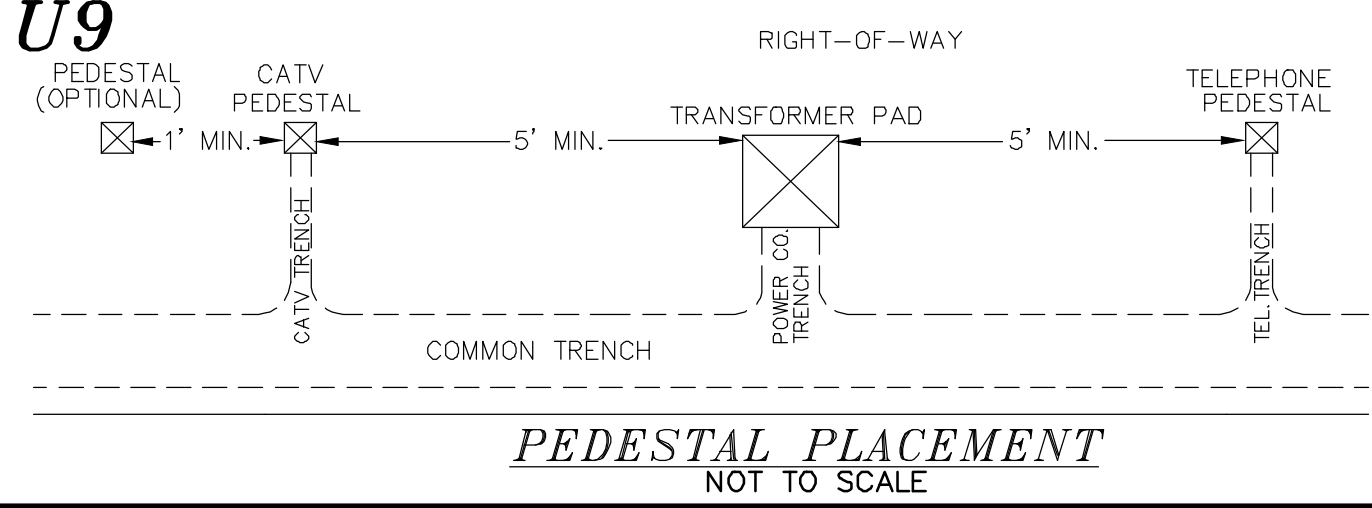
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TRANSFORMER PAD DETAIL



- NOTES:**
- CONFIRM SIZE WITH ELECTRIC COMPANY BEFORE CONSTRUCTION.
 - USE LOCAL ELECTRIC COMPANY DETAILS AS REQUIRED.

U9



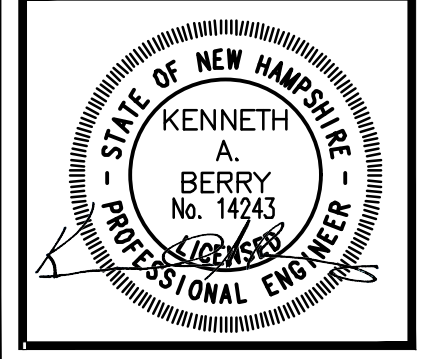
PEDESTAL PLACEMENT
NOT TO SCALE

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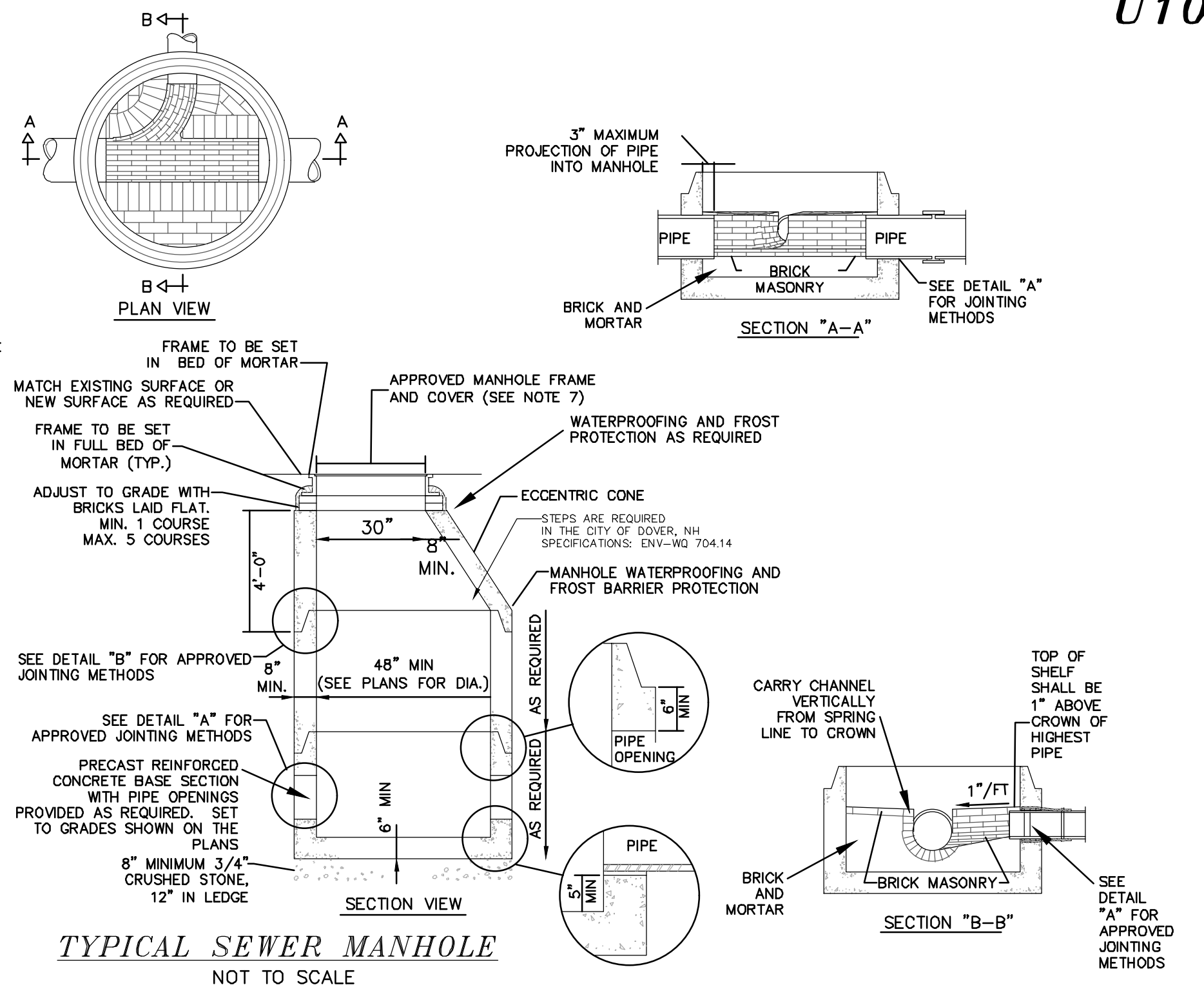
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BERRY SURVEYING & ENGINEERING
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NOTES ON MANHOLE AND SEWER CONSTRUCTION:

- IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES SHALL BE AN ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT AND ADEQUATE JOINTING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND HS-20-44 LOADING, INCLUDING THE COVER. ALL SMH CONSTRUCTION AND MATERIALS WILL BE IAW ENV.-WQ 704.13 ADOPTED OCTOBER 15, 2014.
- BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE. (IAW ENV.-WQ 704.12 (d))
- SEWER MANHOLE DIAMETER SHALL BE AS INDICATED ON THE PLANS.
- PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478.
- GRAVITY SEWER PIPE TESTING WILL BE IN ACCORDANCE WITH ENV.-WQ 704.06 AND MAN HOLE TESTING IAW ENV.-WQ 704.17 DATED OCTOBER 15, 2014.
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE PIPE AND FLOW. INVERT BRICKS SHALL BE LAID ON EDGE AND THE BASE SECTION SHALL BE FULL AT CHANGES IN DIRECTIONS. THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. (IAW ENV.-WQ 704.13 (c) (9)), MORTAR SHALL CONFORM WITH REQUIREMENTS OF IAW ENV.-WQ 704.13 (c).
- FRAMES AND COVERS: MANHOLES FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. 3-INCH (MINIMUM HEIGHT) LETTERS WITH THE WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH MANHOLE COVER. (IAW ENV.-WQ 704.13 (c) (4)-(6)) SEWER MAN HOLE COVERS ARE TO BE LIFTMATE R-1743-LM.
- SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H-20 LOADS.
- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE DOVER COMMUNITY SERVICES, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON A DOUBLE ROW OF AN OVERLAPPING TYPE ELASTOMERIC OR MASTIC-LIKE GASKET. APPROVED ELASTOMERIC SEALANTS ARE: RAM-NEK, KENT SEAL NO. 2, EZ, OR EQUAL.
- IN CROSS COUNTRY AREAS OUTSIDE OF THE PAVED ROADWAY SURFACE, THE MANHOLE FRAME ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE. SEE TYPICAL TRENCH DETAIL U14.
- ALL FRAMES AND GRATES ARE TO BE U.S.A. MADE. MANHOLE STEPS ARE REQUIRED IN THIS MUNICIPALITY AND MUST CONFORM TO THE REQUIREMENTS OF ENV.-WQ 704.14.
- MANHOLES SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST IN ACCORDANCE WITH THE ASTM C1244 STANDARD AND ENV.-WQ 704.17.



U10

U11

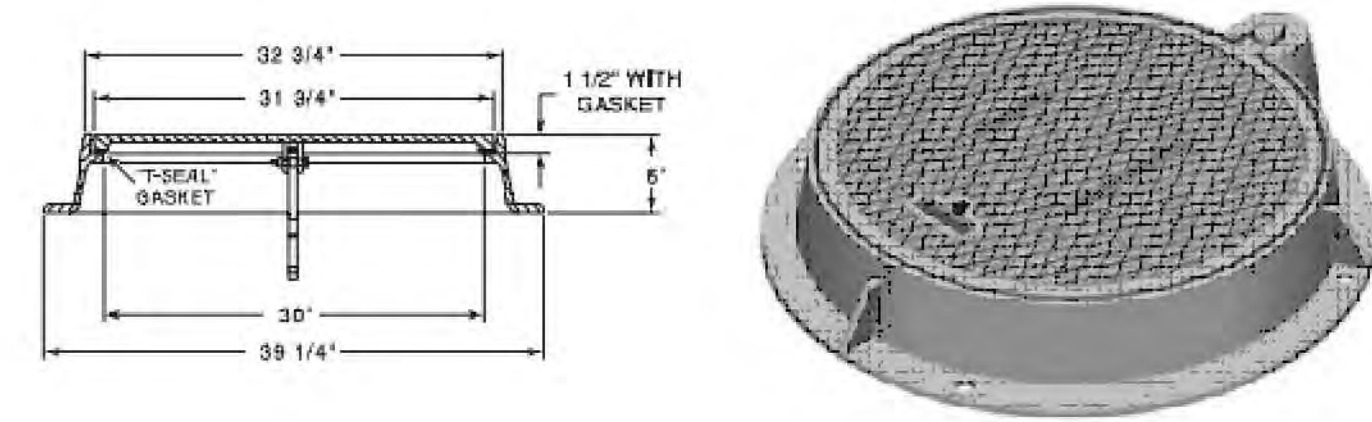
R-1743-LM LiftMate Frame, Solid Gasketed Lid

Heavy Duty

Furnished with four 1" anchor holes on 36-7/8" diameter bolt circle.

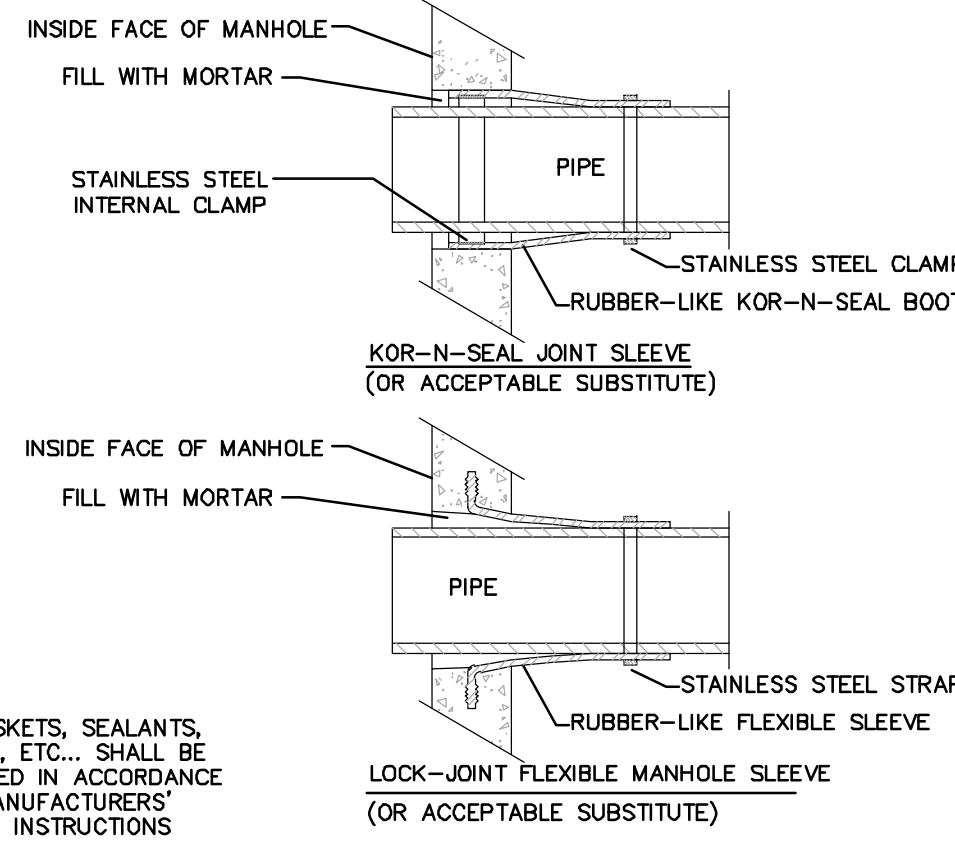
Hinge plug available for self-seal application.

See p. 13 for LiftMate information.



SEWER MANHOLE FRAME AND GRATE WILL BE LIFTMATE R-1743-LM, OR APPROVED EQUAL, 32 INCH OPENING, CAST IRON, H20 LOADING.
SEWER MANHOLE COVER DETAIL
NOT TO SCALE

U12



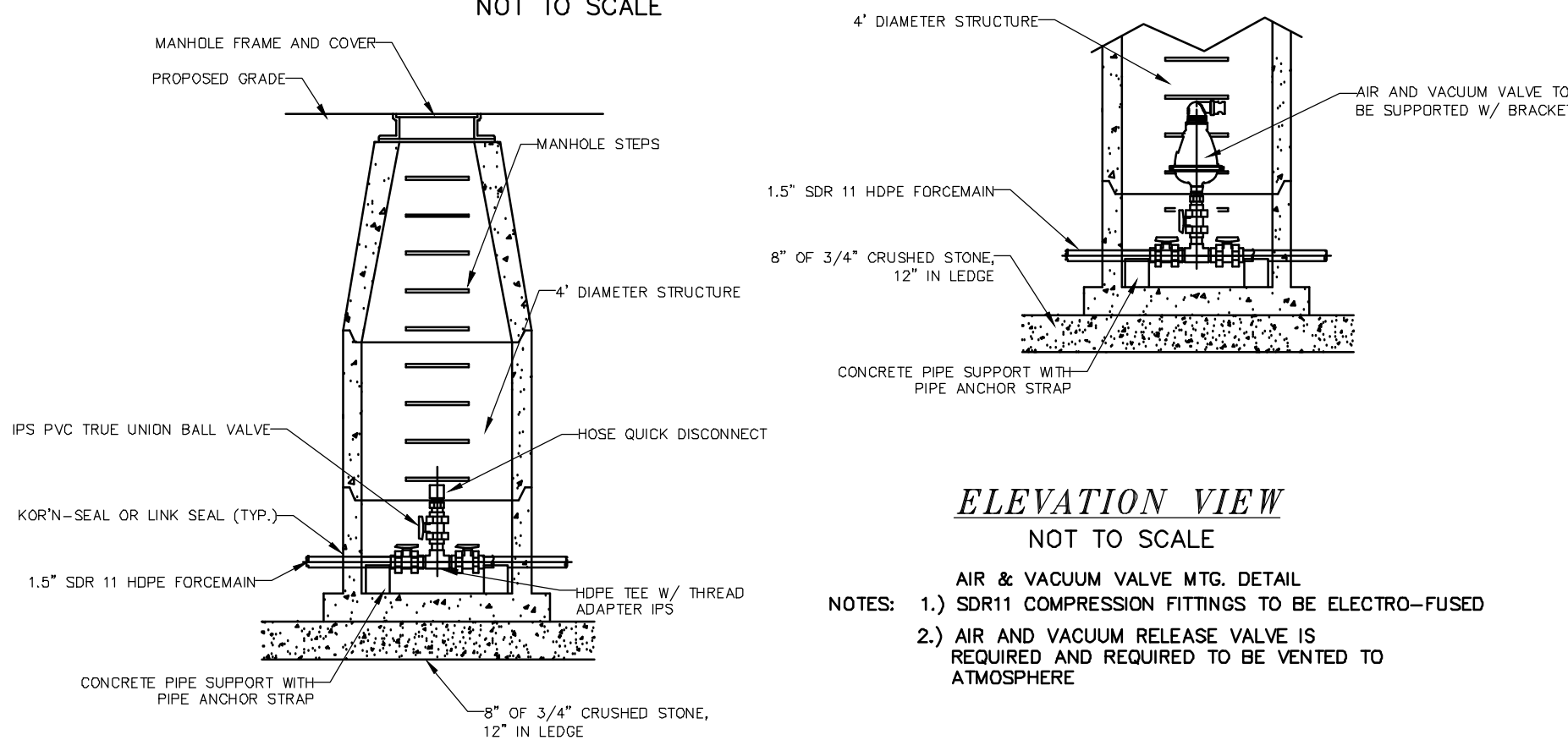
ALL GASKETS, SEALANTS, MORTAR, ETC... SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS

DETAIL "B" HORIZONTAL JOINTS
NOT TO SCALE

NOTE: ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

U13

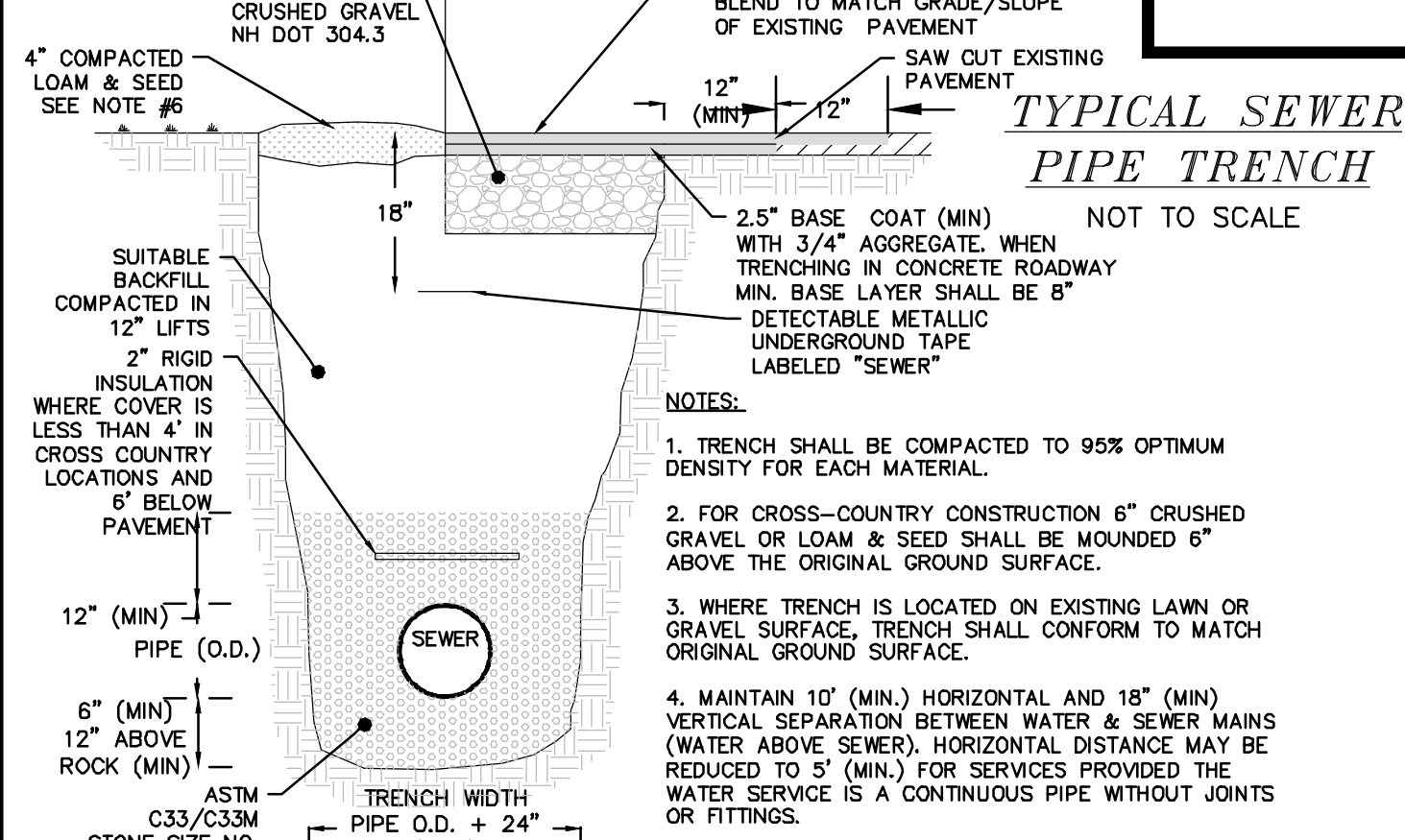
INLINE FLUSHING MANHOLE DETAIL
NOT TO SCALE



NOTES:
1.) SDR11 COMPRESSION FITTINGS TO BE ELECTRO-FUSED
2.) AIR AND VACUUM RELEASE VALVE IS REQUIRED AND REQUIRED TO BE VENTED TO ATMOSPHERE

U14

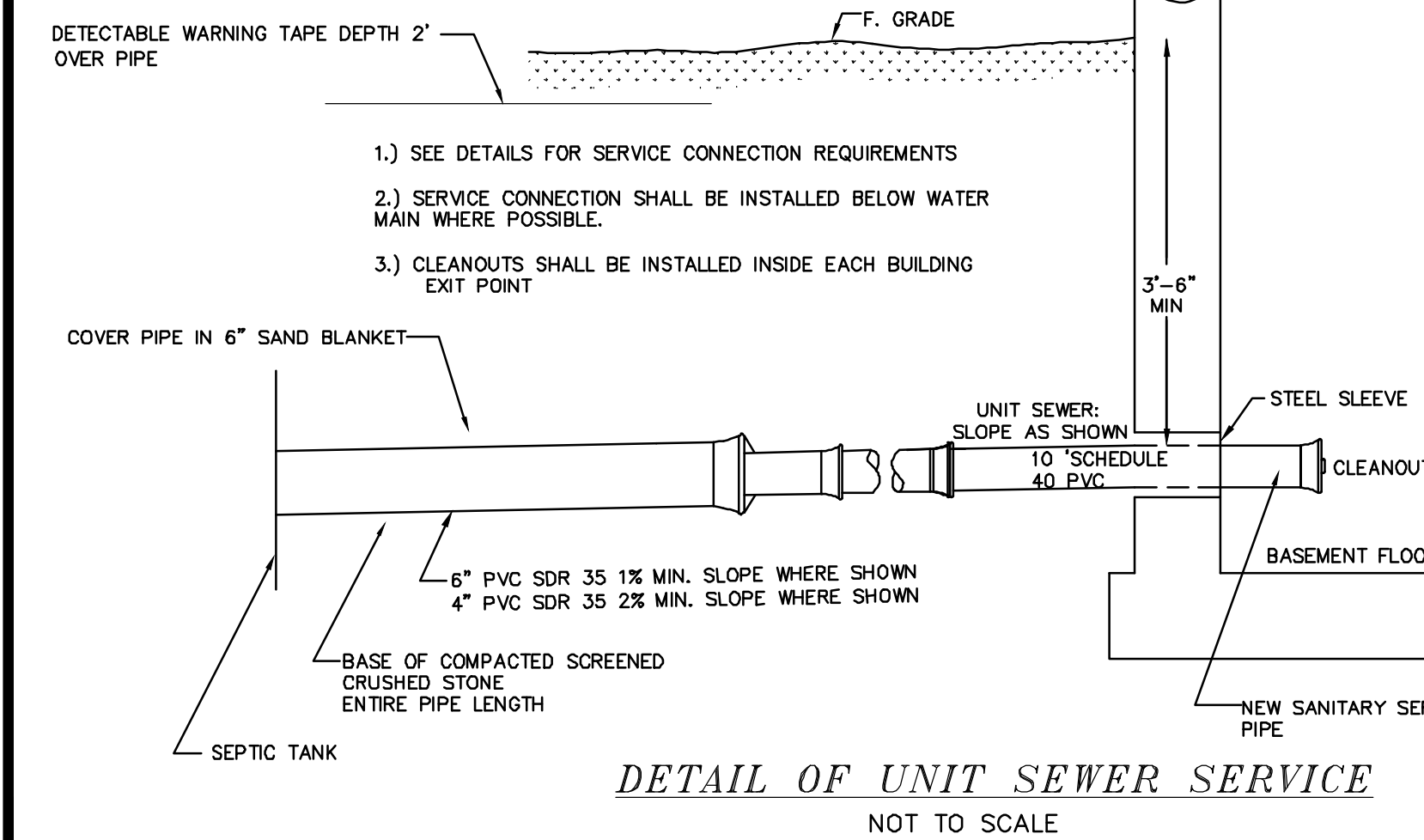
TYPICAL SEWER PIPE TRENCH
NOT TO SCALE



- NOTES:
- TRENCH SHALL BE COMPACTED TO 95% OPTIMUM DENSITY FOR EACH MATERIAL.
 - FOR CROSS-COUNTRY CONSTRUCTION 6" CRUSHED GRAVEL OR LOAM & SEED SHALL BE MOUNDED 6" ABOVE THE ORIGINAL GROUND SURFACE.
 - WHERE TRENCH IS LOCATED ON EXISTING LAWN OR GRAVEL SURFACE, TRENCH SHALL CONFORM TO MATCH ORIGINAL GROUND SURFACE.
 - MAINTAIN 10' (MIN.) HORIZONTAL AND 18" (MIN.) VERTICAL SEPARATION BETWEEN WATER & SEWER MAINS (WATER ABOVE SEWER). HORIZONTAL DISTANCE MAY BE REDUCED TO 5' (MIN.) FOR SERVICES PROVIDED THE WATER SERVICE IS A CONTINUOUS PIPE WITHOUT JOINTS OR FITTINGS.
 - BACKFILL MATERIAL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, MUCK, PEAT AND ROCKS OVER 6" IN LARGEST DIMENSION
 - LOAM AND SEED SHOULD BE IN COMPLIANCE WITH NH DOT 641, 642, 643, 644 AND 645.

U15

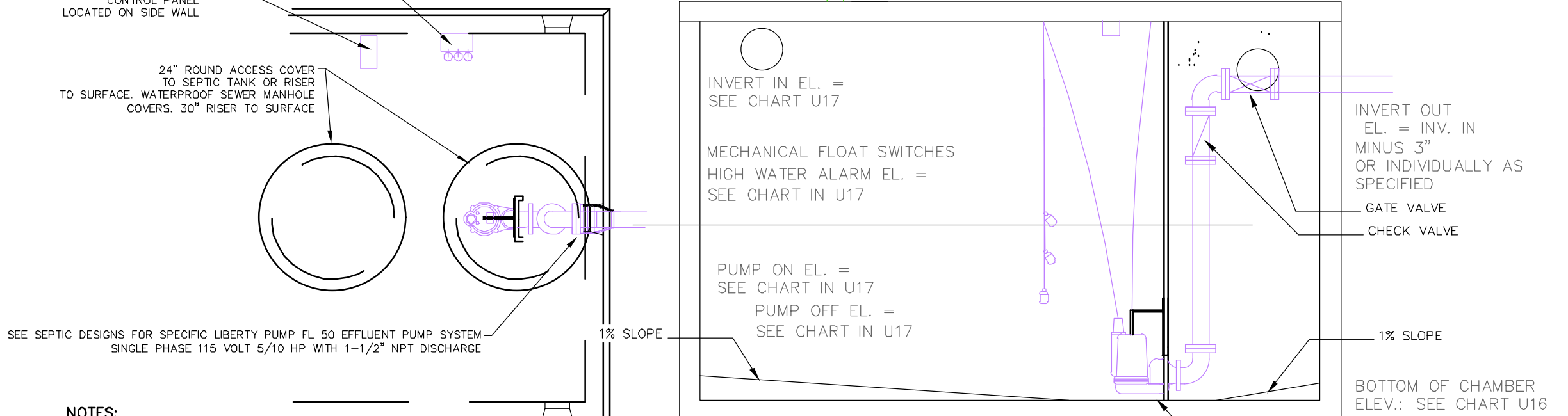
DETAIL OF UNIT SEWER SERVICE
NOT TO SCALE



- NOTES:
- SEE DETAILS FOR SERVICE CONNECTION REQUIREMENTS
 - SERVICE CONNECTION SHALL BE INSTALLED BELOW WATER MAIN WHERE POSSIBLE.
 - CLEANOUTS SHALL BE INSTALLED INSIDE EACH BUILDING EXIT POINT

U16

PUMP CHAMBER & PUMP DETAILS
NOT TO SCALE



- NOTES:
- THE BOTTOM OF THE PUMP CHAMBER WILL BE SLOPED AT A 1% SLOPE IN ALL DIRECTIONS CREATING A SUMP AROUND THE BASE OF THE PUMP. THE LIFT STATION WILL BE EQUIPPED WITH A GR20 GUIDE RAIL BASE AND RAIL SYSTEM AND LIFT CHAIN. THE PUMP DISCHARGE WILL BE EQUIPPED WITH A CHECK VALVE AND A GATE VALVE BETWEEN THE PUMP AND THE TANK WALL, IN THAT ORDER. THE DISCHARGE WILL LEAVE THE TANK AT A POINT FOUR-FEET BELOW GRADE, INSULATED OR SIX-FEET IF UNDER PAVEMENT.
 - WET WELL/SEPTIC TANK SHALL BE LEAK TESTED USING METHOD ACI 350.1 METHOD HST-NML.
 - SUBMERSIBLE PUMPS AND ALL OTHER ELECTRICAL SYSTEMS/COMPONENTS IN THE WET WELL/SEPTIC TANK SHALL MEET NEC REQUIREMENTS FOR CLASS 1, DIVISION 1 ENVIRONMENT.
 - POWER SOURCE FOR ALARM SYSTEM SHALL BE AN INDEPENDENT BATTERY WITH CONTINUOUS CHARGE, OR MAIN LINE POWER WITH BACK UP BATTERY SYSTEM.

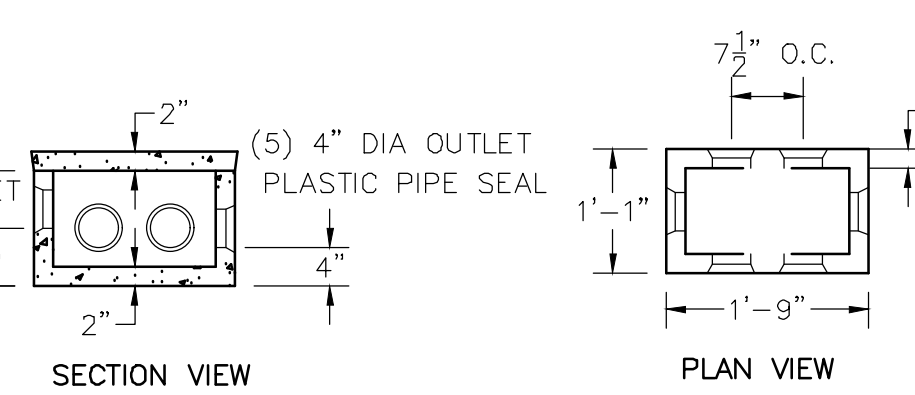
U17

PUMP CHART

PUMP #	PUMP RATE	F.M. LENGTH	PUMP CHAMBER BOTTOM	PUMP CHAMBER INVERT IN	PUMP OFF ELEVATION	PUMP ON ELEVATION	ALARM ON ELEVATION	FLOW (GPD)	PUMP
1	41.0 GPM	216'	159.35'	163.60'	160.42'	160.53'	160.63'	600	LIBERTY FL 50 EFFLUENT

DESIGNERS NOTE: SEE THE FORCE MAIN PROFILE ON THE UTILITIES PLAN. THE PUMP CHAMBER WILL UTILIZE A LIBERTY PUMP FL 50 SUBMERSIBLE EFFLUENT PUMP, OR APPROVED EQUAL. SEE EDA PLAN FOR CONTROL PANEL SPECIFICATIONS. ALL PANELS MUST BE EQUIPPED WITH ALARM BELL AND FLASHER. IT IS HIGHLY RECOMMENDED THAT A GENERATOR HOOKUP BE AVAILABLE FOR EMERGENCY POWER SUPPLY.

U18



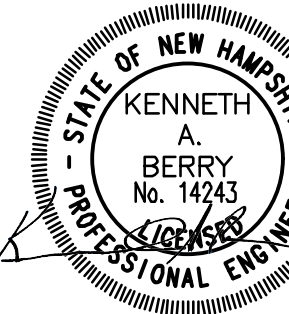
NOTES: 5 OUTLET STANDARD

1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. COVER WEIGHT: 48#

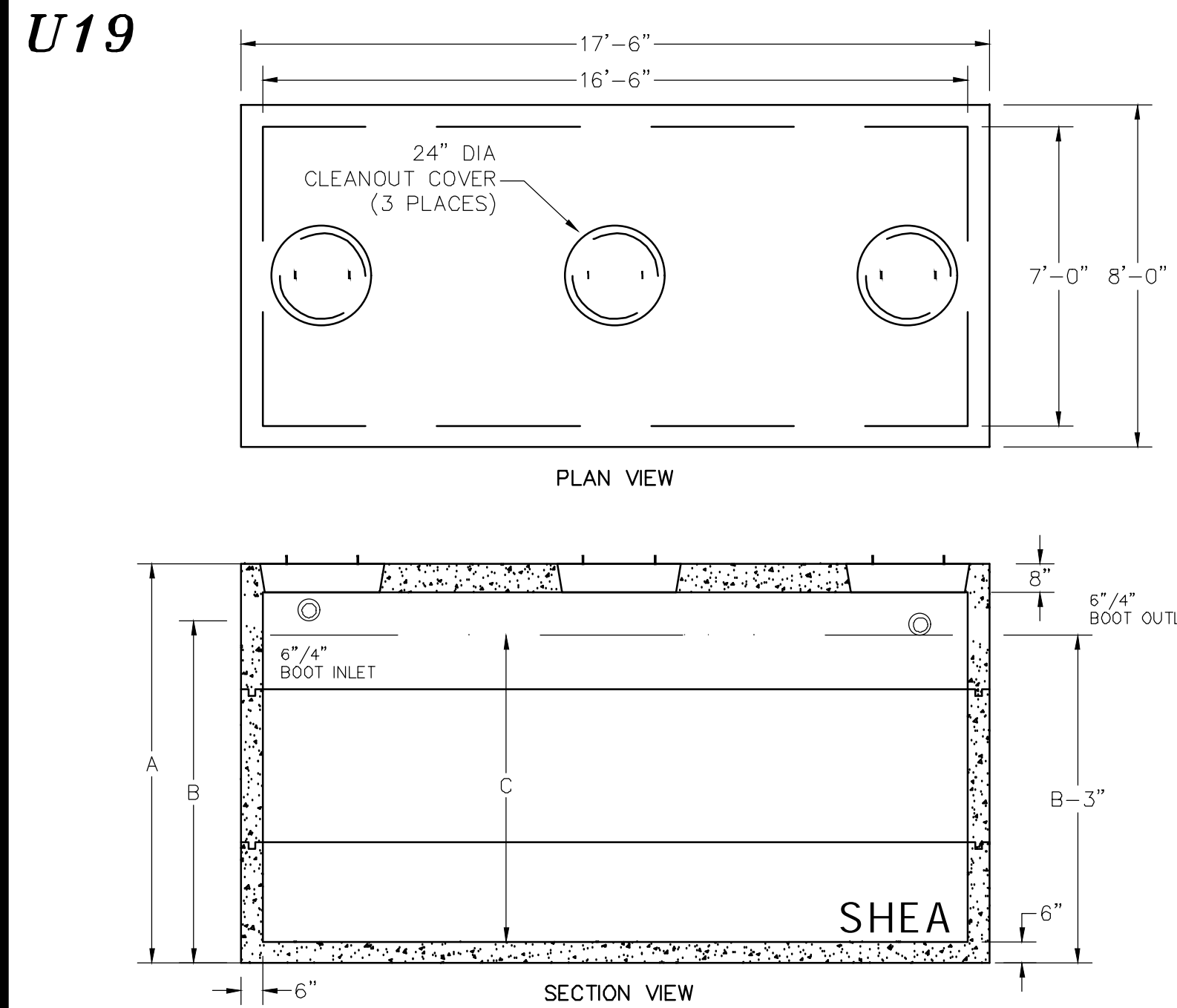
REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

UTILITY CONSTRUCTION DETAILS
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: AS NOTED
DATE: AUGUST 16, 2023
FILE NO.: DB 2021-163



FOR PLANNING BOARD APPROVAL PURPOSES:
THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

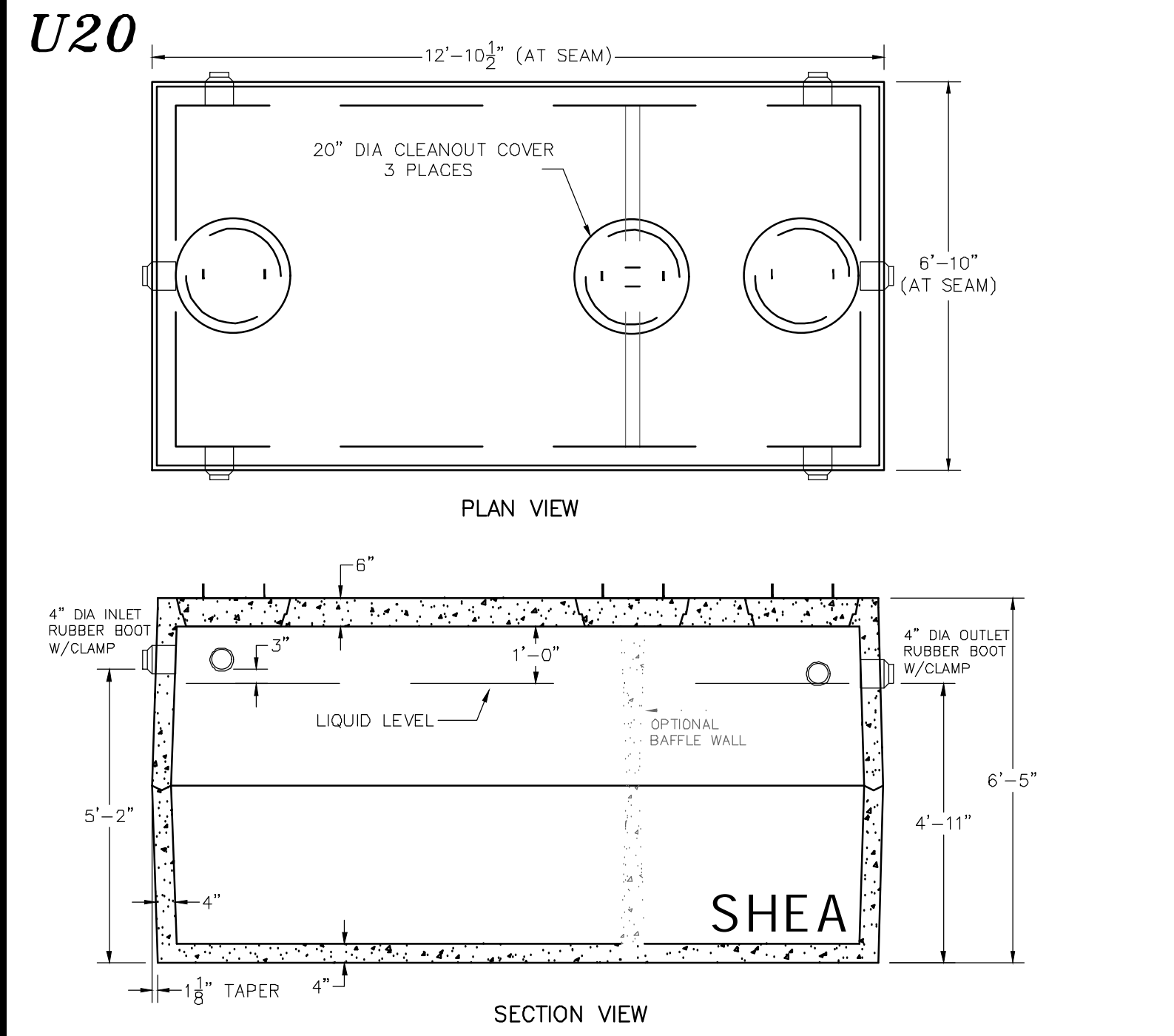


- NOTES:
- CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
 - DESIGN CONFORMS WITH 310 CMR 15.00 DEP TITLE 5 REGS FOR SEPTIC TANKS.
 - ALL REINFORCEMENT PER ASTM C1227.
 - DESIGNED FOR AASHTO HS-20 LOADING, COVER 1-5 FT.
 - TONGUE AND GROOVE JOINT SEALED WITH BUTYL RESIN, INLET HEIGHT MAY INCREASE SLIGHTLY DUE TO THE BUTYL RESIN USED.
 - TEES AND BAFFLES SOLD SEPARATELY.

SECTION	WEIGHT
28" TOP	20,720#
35" TOP	23,137#
34" BOT	20,029#
49" BOT	25,209#
30" RIS	10,014#
43" RIS	14,849#

GALLONS	ITEM NO.	A (HEIGHT)	B* (INLET BOOT)	B* (INLET BOOT)	C (LIQUID)	WEIGHT (LBS)	TOP (HEIGHT)	BOTTOM (HEIGHT)	RISER 1 (HEIGHT)	RISER 2 (HEIGHT)
3,500	8X17-35	77"	61"	62"	52"	45,929	28"	49"	0"	0"
4,000	8X17-40	84"	68"	69"	60"	48,346	35"	49"	0"	0"
4,500	8X17-45	91"	75"	76"	66"	50,763	28"	34"	30"	0"
5,000	8X17-50	98"	82"	83"	73"	53,180	35"	34"	30"	0"
5,500	8X17-55	105"	89"	90"	80"	55,598	28"	34"	43"	0"
6,000	8X17-60	112"	96"	97"	88"	58,015	35"	34"	43"	0"
6,500	8X17-65	120"	104"	105"	95"	60,778	28"	49"	43"	0"
7,000	8X17-70	127"	111"	112"	102"	63,195	35"	49"	43"	0"
7,500	8X17-75	134"	118"	119"	109"	65,612	28"	34"	43"	30"
8,000	8X17-80	141"	125"	126"	116"	68,029	35"	34"	43"	30"

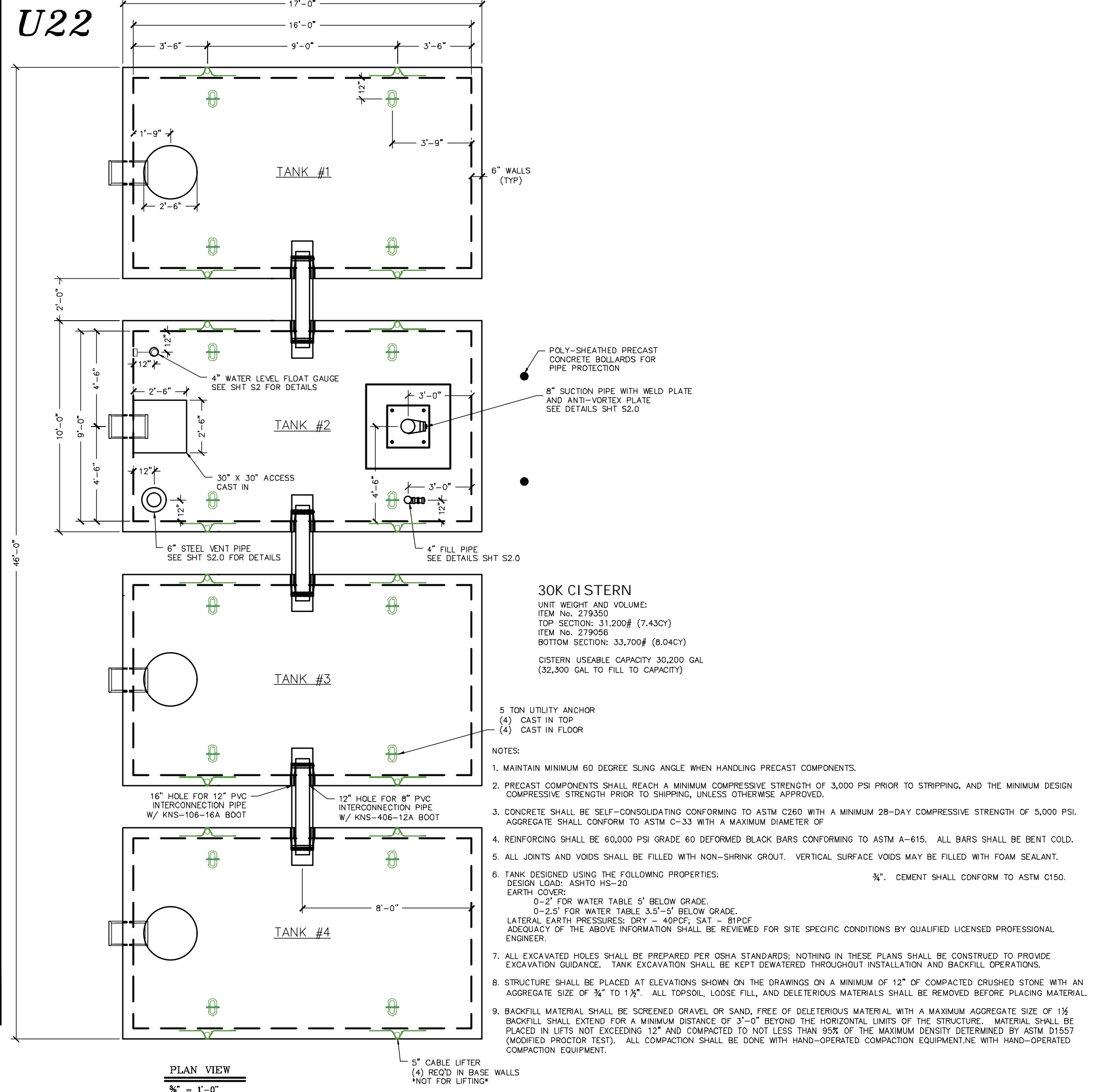
NOTE: 30" RISER TO SURFACE WITH SMH FRAME AND GRATE REQUIRED
3,500 - 8,000 GALLON SEPTIC TANK
 NOT TO SCALE



- NOTES:
- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - CONSTRUCTION OF SEPTIC TANK CONFORMS WITH 310 CMR, SECTION 15.00 DEP TITLE 5 REGS.
 - ALL REINFORCEMENT PER ASTM C1227.
 - TEES AND GAS BAFFLE SOLD SEPARATELY.
 - TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
 - IF COVER EXCEEDS 4 FEET, HEAVY DUTY TANK REQUIRED. ALSO AVAILABLE IN AASHTO HS-20 LOADING.

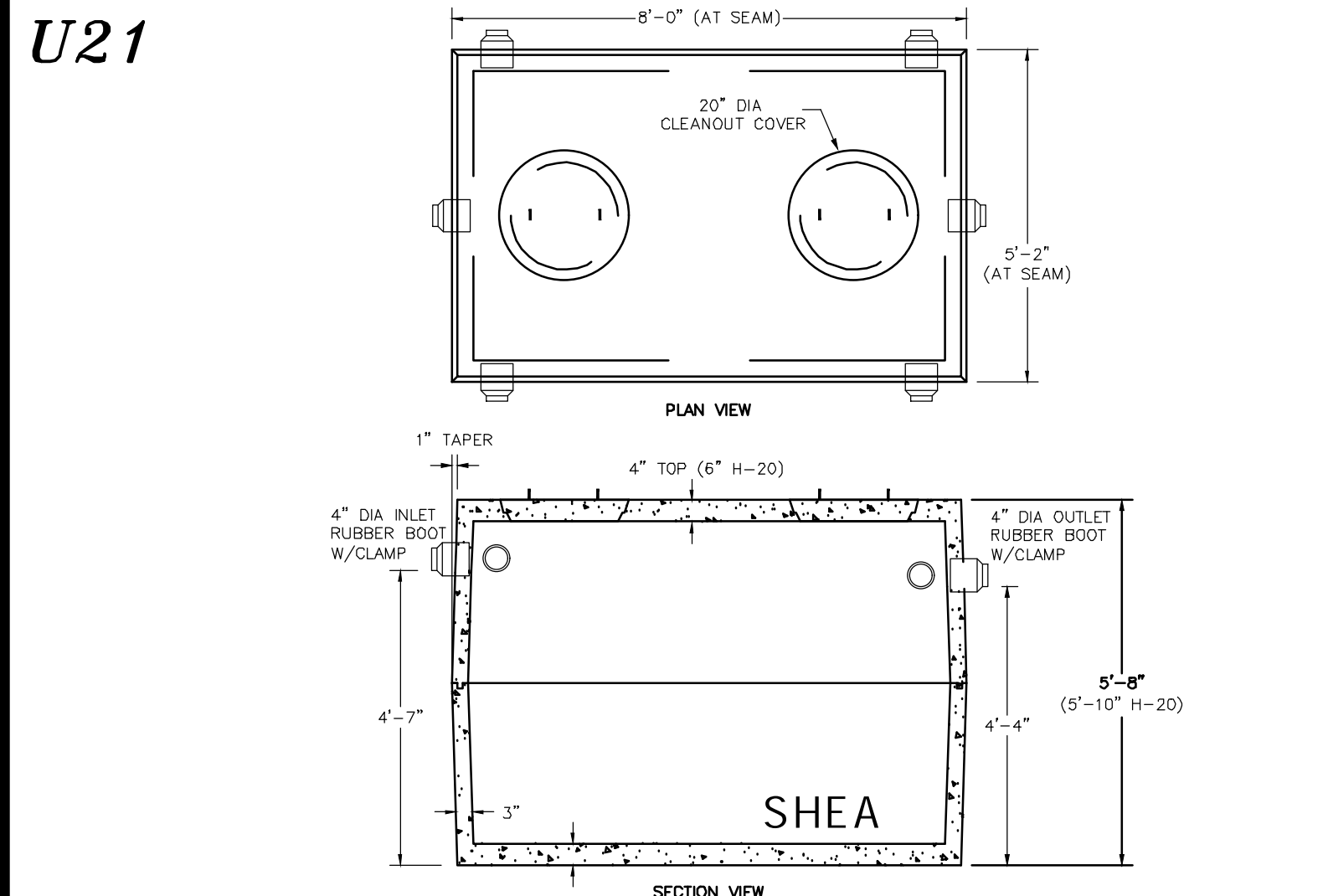
ITEM NO.	2500	STANDARD	WEIGHT
	2500H	H20	21,750#
	25002CH	H20	22,650#
	25002CH	H20	22,650#

NOTE: 30" RISER TO SURFACE WITH SMH FRAME AND GRATE REQUIRED
2,500 GALLON SEPTIC TANK
 NOT TO SCALE



- 30K CISTERN
 UNIT WEIGHT AND VOLUME:
 ITEM NO. 279350
 TOP SECTION: 11,200# (7.43CY)
 ITEM NO. 279058
 BOTTOM SECTION: 33,700# (8.04CY)
 CISTERN USABLE CAPACITY 30,200 GAL (32,500 GAL TO FILL TO CAPACITY)
- NOTES:
- MAINTAIN MINIMUM 60 DEGREE SLING ANGLE WHEN HANDLING PRECAST COMPONENTS.
 - PRECAST COMPONENTS SHALL REACH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI PRIOR TO STRIPPING, AND THE MINIMUM DESIGN COMPRESSIVE STRENGTH PRIOR TO SHIPPING, UNLESS OTHERWISE APPROVED.
 - CONCRETE SHALL BE SELF-CONSOLIDATING CONFORMING TO ASTM C260 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. AGGREGATE SHALL CONFORM TO ASTM C-33 WITH A MAXIMUM DIAMETER OF 1 1/2".
 - REINFORCING SHALL BE 60,000 PSI GRADE 60 DEFORMED BLACK BARS CONFORMING TO ASTM A-615. ALL BARS SHALL BE BENT COLD.
 - ALL JOINTS AND VOIDS SHALL BE FILLED WITH NON-SHRINK GROUT. VERTICAL SURFACE VOIDS MAY BE FILLED WITH FOAM SEALANT.
 - TANK DESIGNED USING THE FOLLOWING PROPERTIES:
 DESIGN LOAD: AASHTO HS-20
 EARTH COVER:
 0-2' FOR WATER TABLE 3.5'-5' BELOW GRADE
 0-2.5' FOR WATER TABLE 3.5'-5' BELOW GRADE
 LATERAL EARTH PRESSURES: DRY - 40PSF, SAT - 81PSF
 ABSOLUTELY OF THE ABOVE INFORMATION SHALL BE REVIEWED FOR SITE SPECIFIC CONDITIONS BY QUALIFIED LICENSED PROFESSIONAL ENGINEER.
 - ALL EXCAVATED HOLES SHALL BE PREPARED PER OSHA STANDARDS. NOTHING IN THESE PLANS SHALL BE CONSTRUED TO PROVIDE EXCAVATION GUIDANCE. TANK EXCAVATION SHALL BE KEPT Dewatered THROUGHOUT INSTALLATION AND BACKFILL OPERATIONS.
 - STRUCTURE SHALL BE PLACED AT ELEVATIONS SHOWN ON THE DRAWINGS ON A MINIMUM OF 12" OF COMPACTED CRUSHED STONE WITH AN AGGREGATE SIZE OF 3/4" TO 1 1/2". ALL TOPSOIL, LOOSE FILL, AND DELETERIOUS MATERIALS SHALL BE REMOVED BEFORE PLACING MATERIAL.
 - BACKFILL MATERIAL SHALL BE SCREENED GRAVEL OR SAND, FREE OF DELETERIOUS MATERIAL WITH A MAXIMUM AGGREGATE SIZE OF 1/2". BACKFILL SHALL EXTEND FOR A MINIMUM DISTANCE OF 3'-0" BEYOND THE HORIZONTAL LIMITS OF THE STRUCTURE. MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST). ALL COMPACTION SHALL BE DONE WITH HAND-OPERATED COMPACTION EQUIPMENT WITH HAND-OPERATED COMPACTION EQUIPMENT.

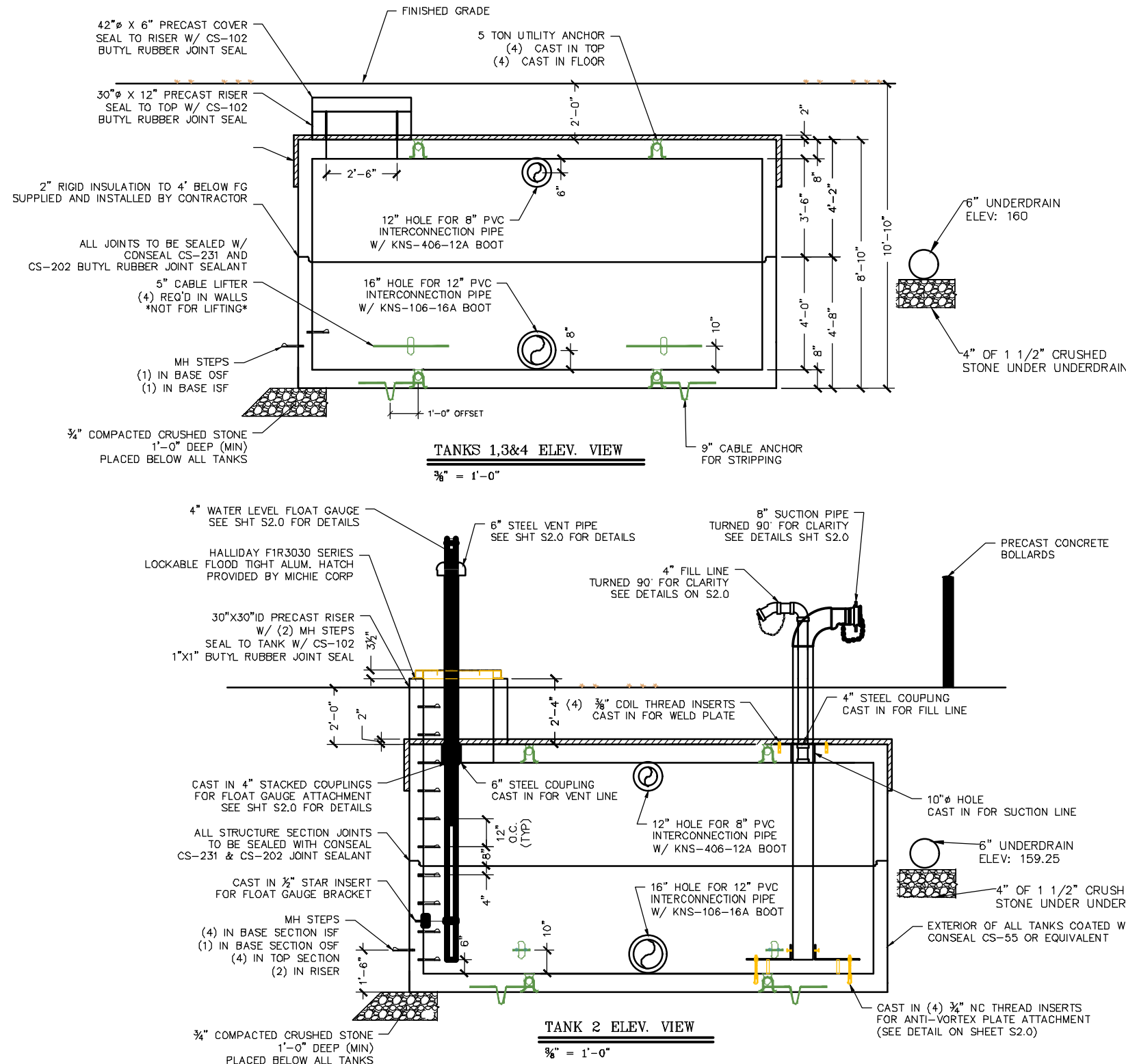
FIRE CISTERN DETAIL
 NOT TO SCALE



- NOTES:
- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - DESIGN CONFORMS WITH 310 CMR 15.000, DEP TITLE 5 REGS, FOR PUMP CHAMBERS.
 - ALL REINFORCEMENT PER ASTM C1227.
 - JOINT SEALED WITH BUTYL RESIN.
 - IF COVER EXCEEDS 4 FEET, HEAVY DUTY TANK REQUIRED. ALSO AVAILABLE IN AASHTO HS-20 LOADING.
 - PUMPS AND ACCESSORIES OPTIONAL.

1,000 GALLON PUMP CHAMBER
 NOT TO SCALE

NOTE: 30" RISER TO SURFACE WITH SMH FRAME AND GRATE REQUIRED



REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

UTILITY CONSTRUCTION DETAILS
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
 SCALE: AS NOTED
 DATE: AUGUST 16, 2023
 FILE NO.: DB 2021-163

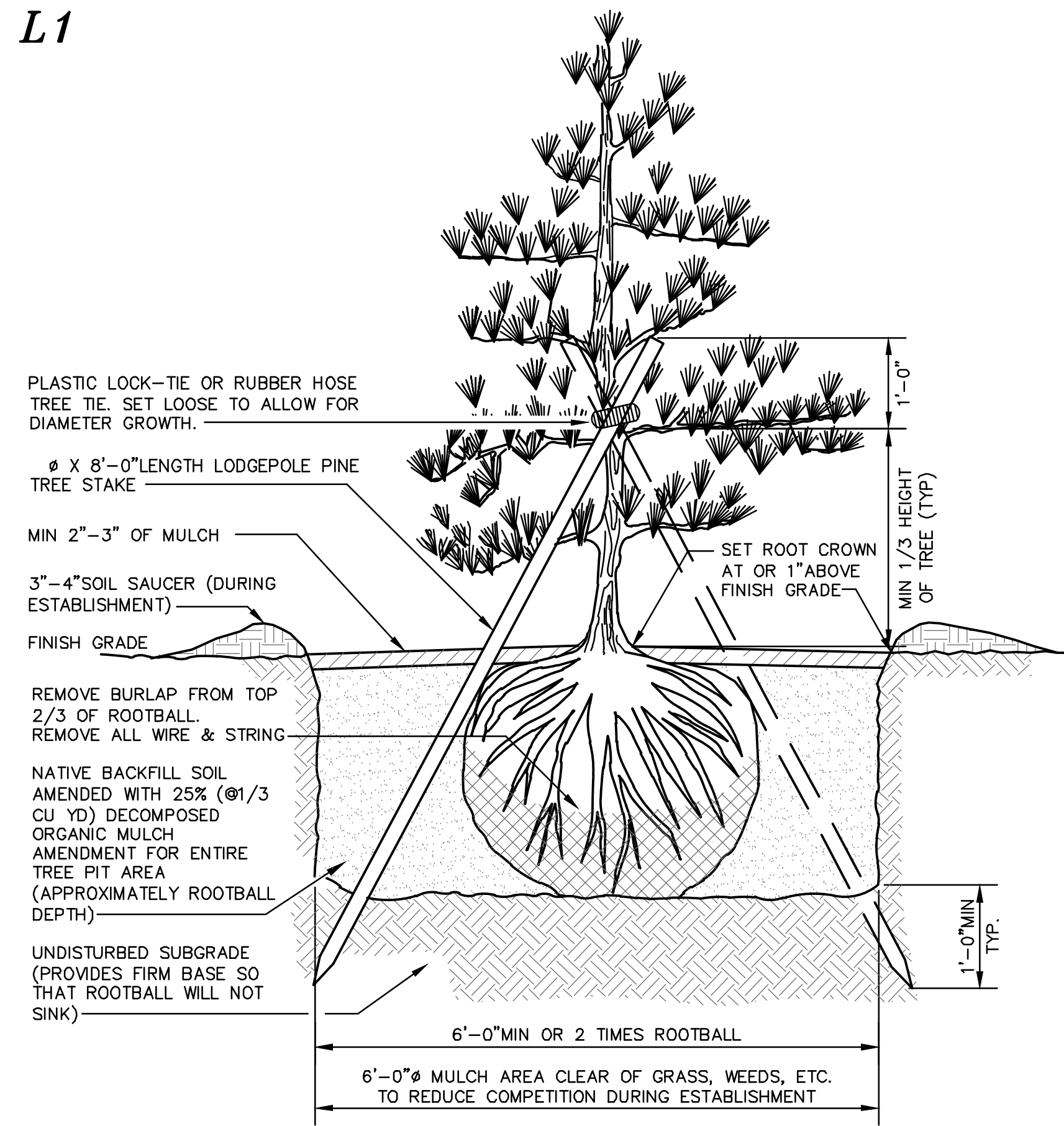
FOR PLANNING BOARD APPROVAL PURPOSES:

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KENNETH A. BERRY
 No. 14243
 PROFESSIONAL ENGINEER

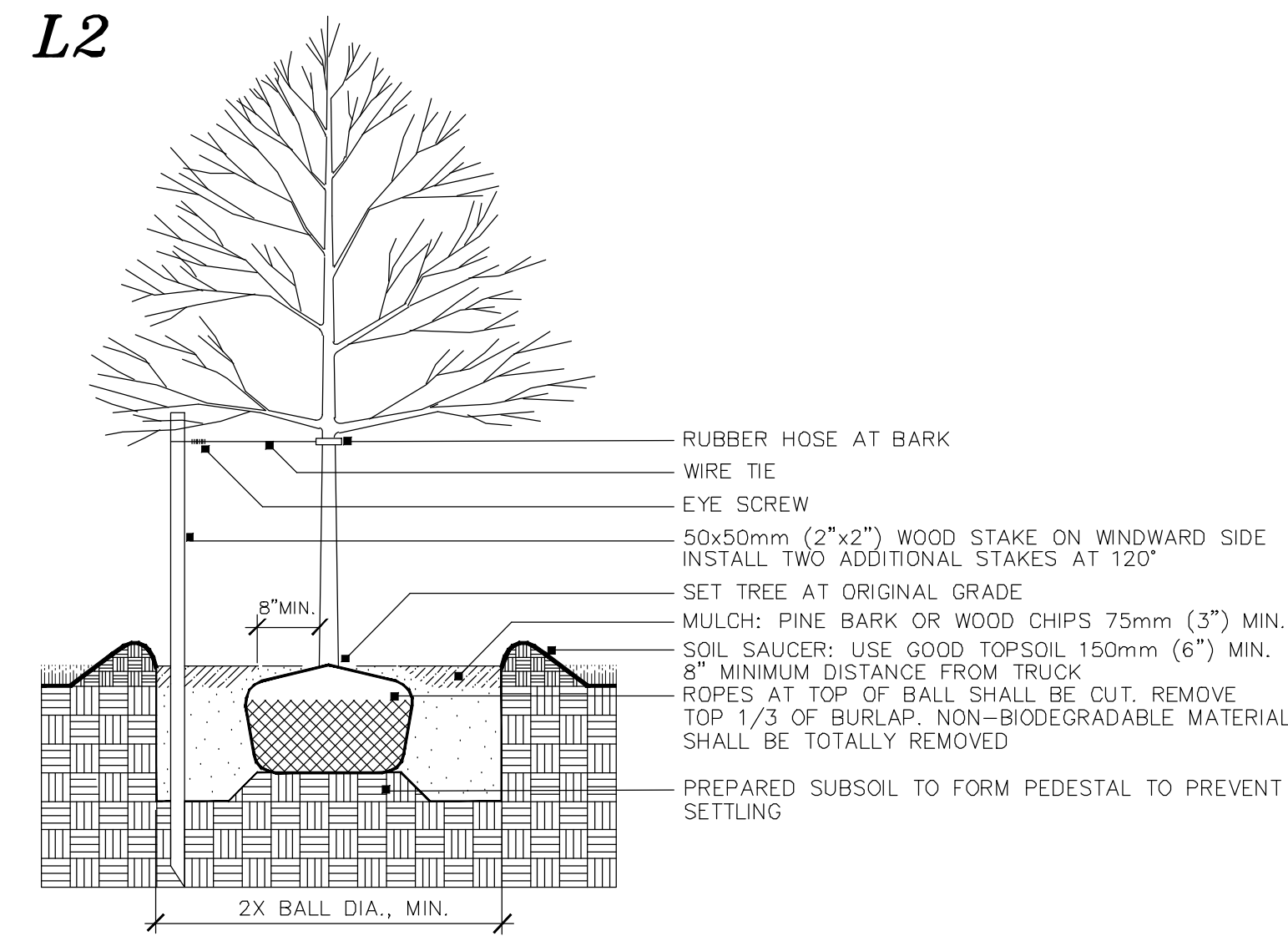
U-103

L1



CONIFEROUS TREE PLANTING

L2



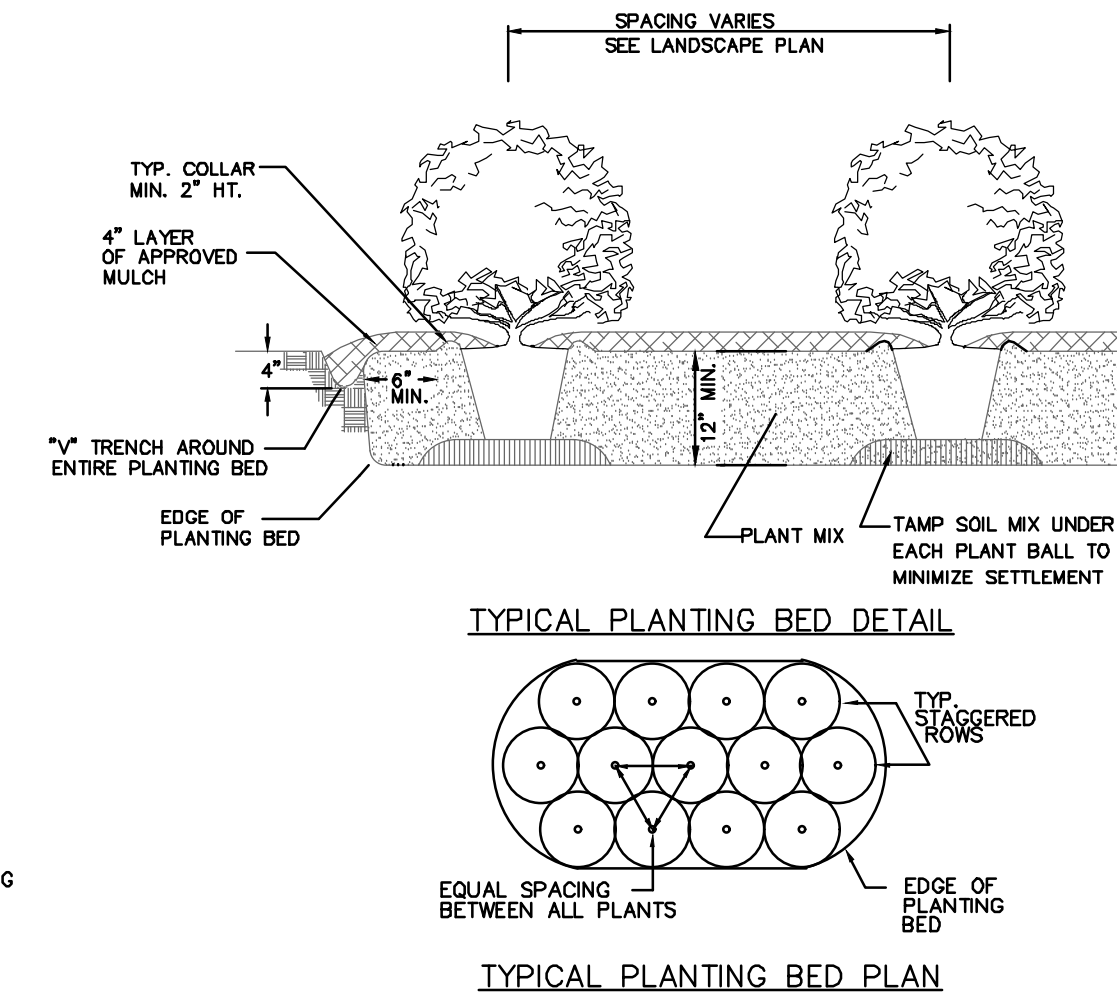
DECIDUOUS TREE PLANTING

NOTE: STAKING TO BE USED IN PARKING ISLANDS AND OTHER CONFINED AREAS AS NECESSARY TO AVOID CONFLICTS WITH PEDESTRIANS

L3

NOTES:

1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS AT FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.

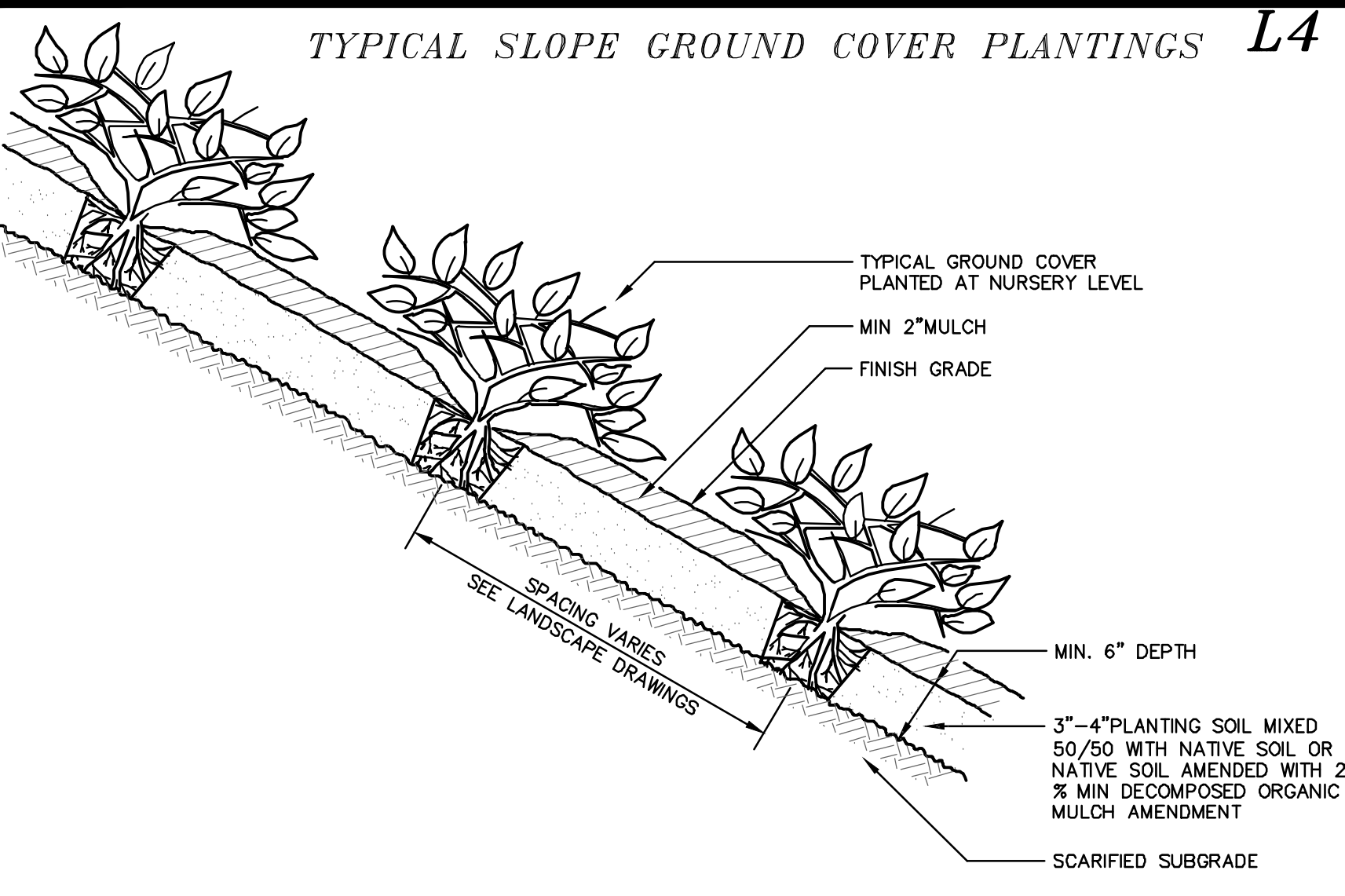


SHRUB & HEDGE PLANTING

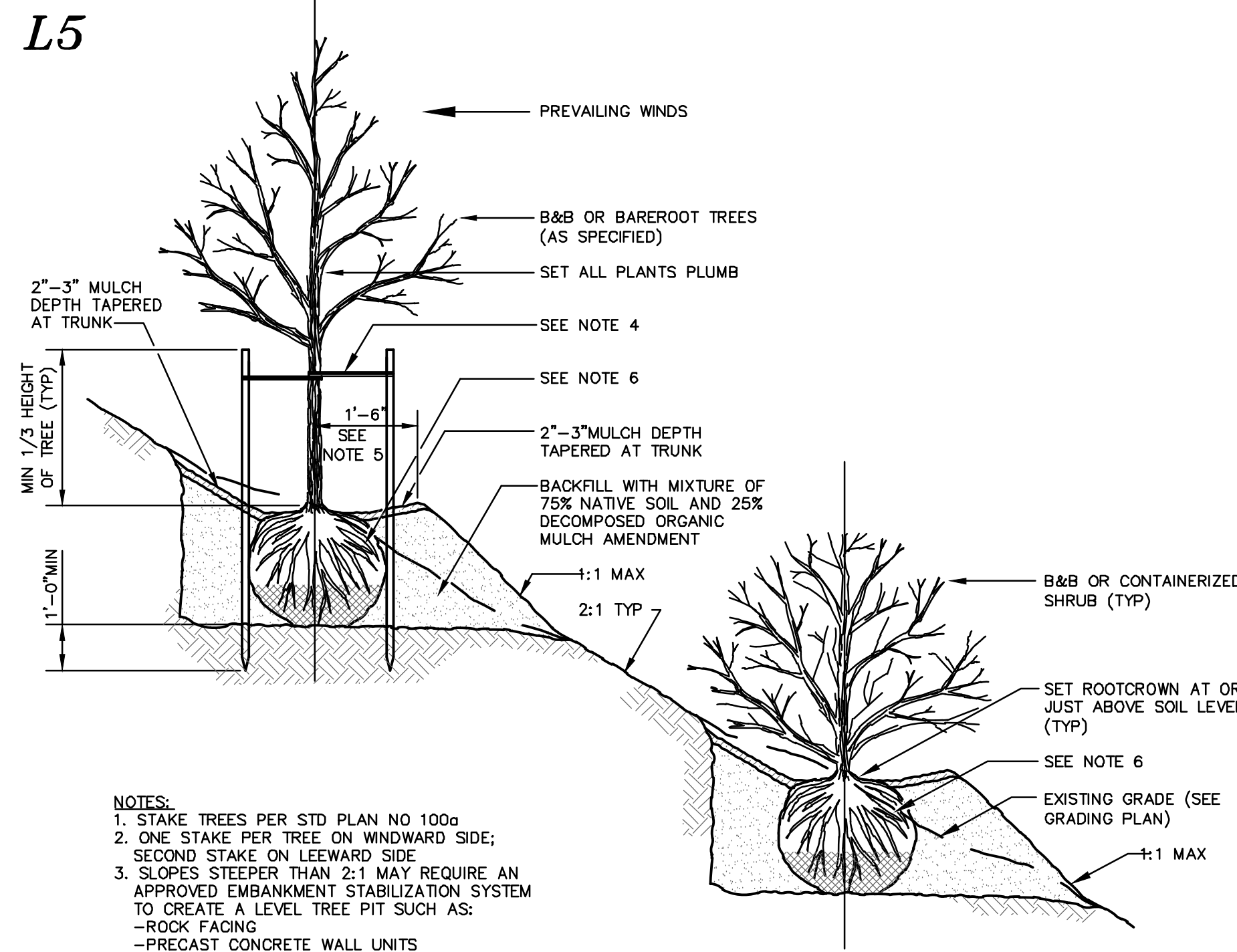
NOTES:

- 1.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
- 2.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.
- 3.) PROVIDED SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
- 4.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 5.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.
- 6.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.
- 7.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
- 8.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.
- 9.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.
- 10.) ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 3" CLEAN SHREDDED BLACK MULCH.
- 11.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
- 12.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.
- 13.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURE AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.
- 14.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL THREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.
- 15.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.
- 16.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.
- 17.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.
- 18.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.
- 19.) TREES ARE TO BE 2-2.5" CALIPER 6" OFF THE ROOT BALL.
- 20.) ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 - NURSERY STOCK, LATEST EDITIONS (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)
- 21.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
- 22.) PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK FILL WHEN AVAILABLE.
- 23.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.

TYPICAL SLOPE GROUND COVER PLANTINGS L4



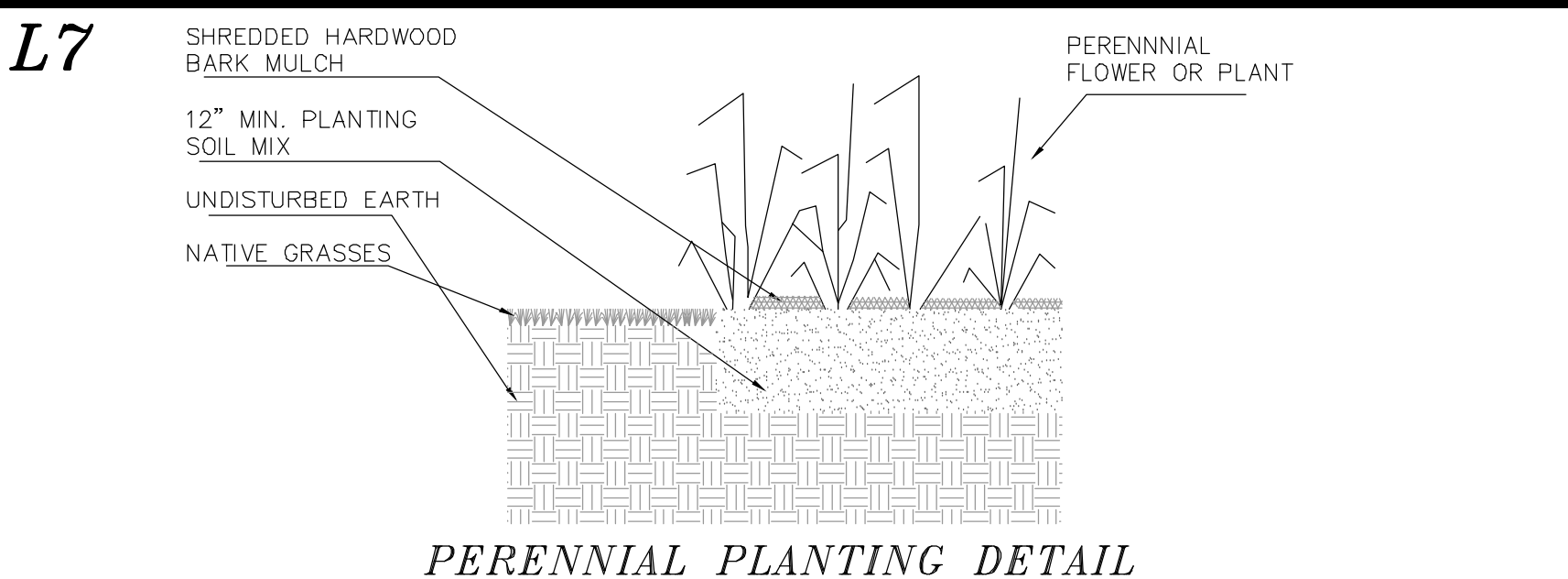
L5



TREE PLANTING ON SLOPES

- NOTES:
1. STAKE TREES PER STD PLAN NO 100a
 2. ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEEWARD SIDE
 3. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
 - ROCK FACING
 - PRECAST CONCRETE WALL UNITS
 - TIMBER WALL
 - MANUFACTURED SLOPE RETENTION UNITS
 4. CHAINLOCK TREE TIE LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
 5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
 6. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP.

L7



PERENNIAL PLANTING DETAIL

REVISION	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

LANDSCAPING CONSTRUCTION DETAILS

LAND OF HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

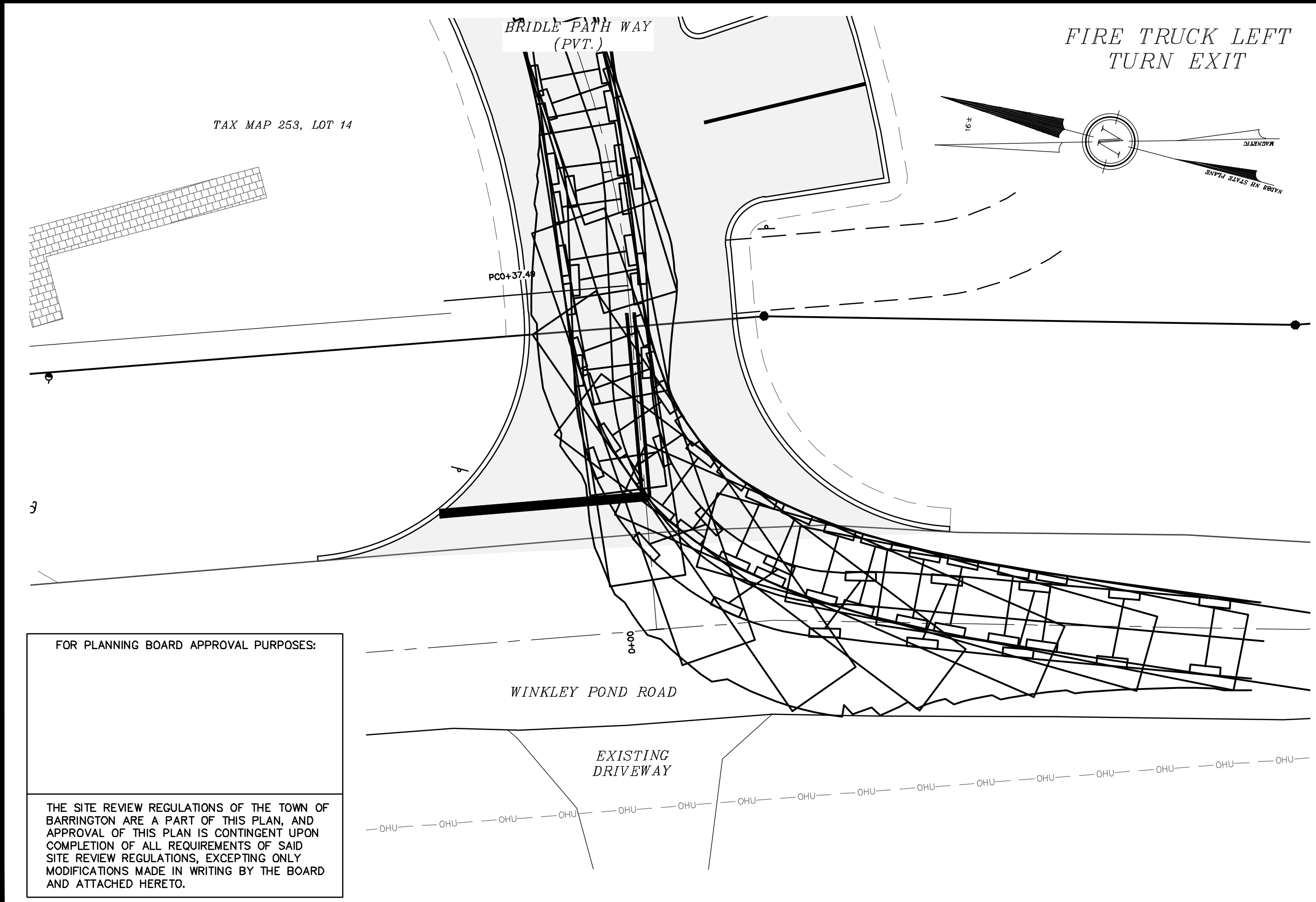
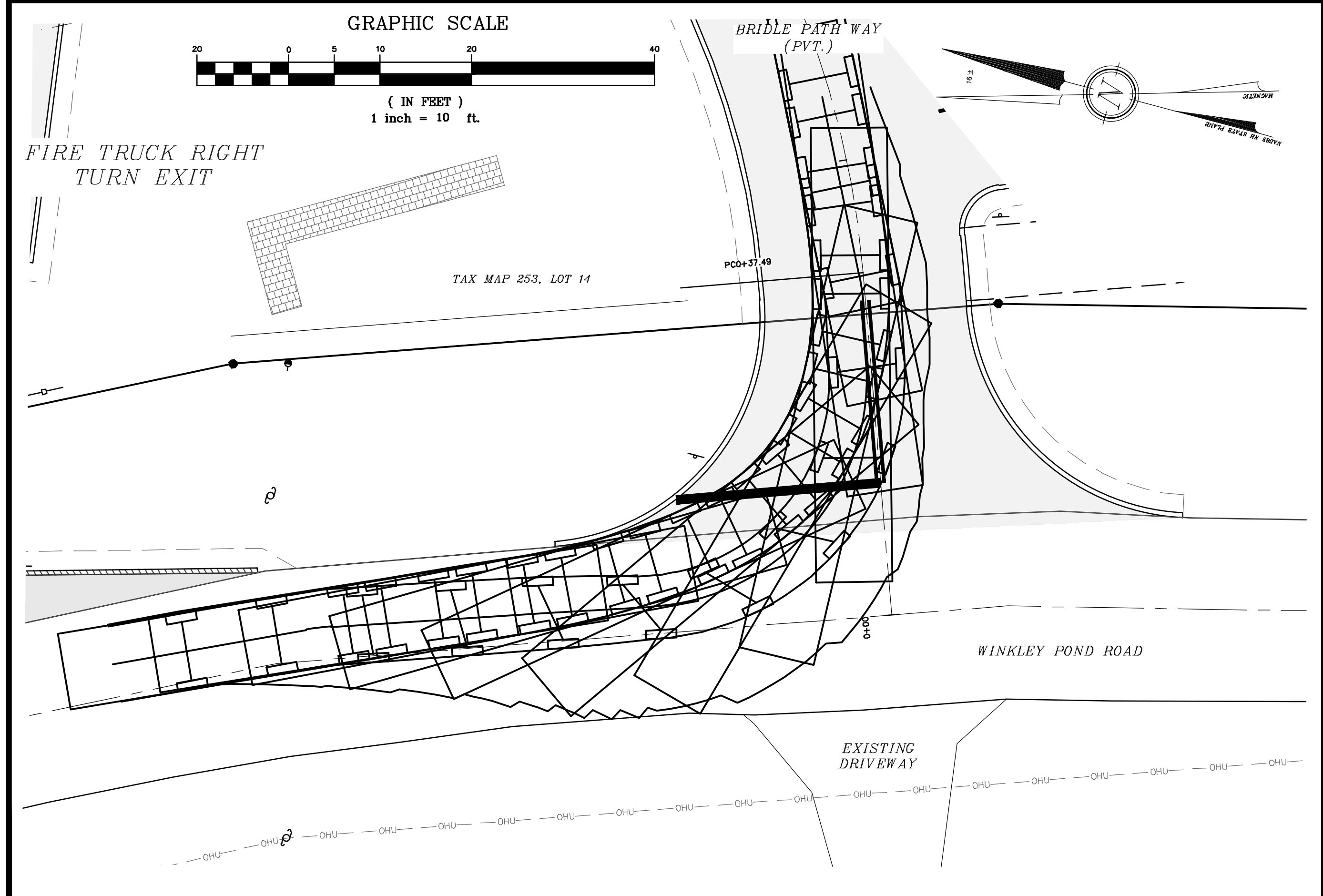
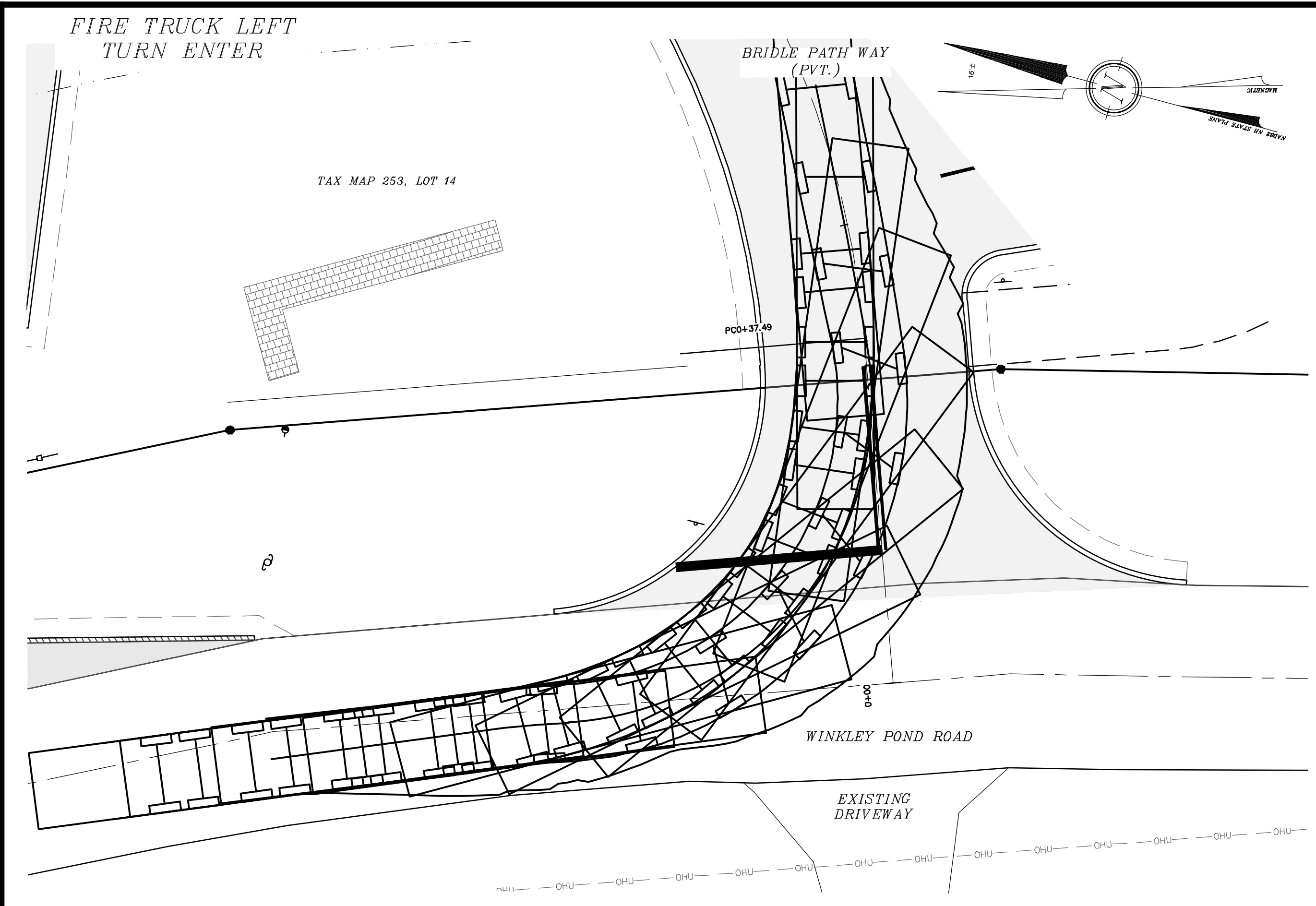
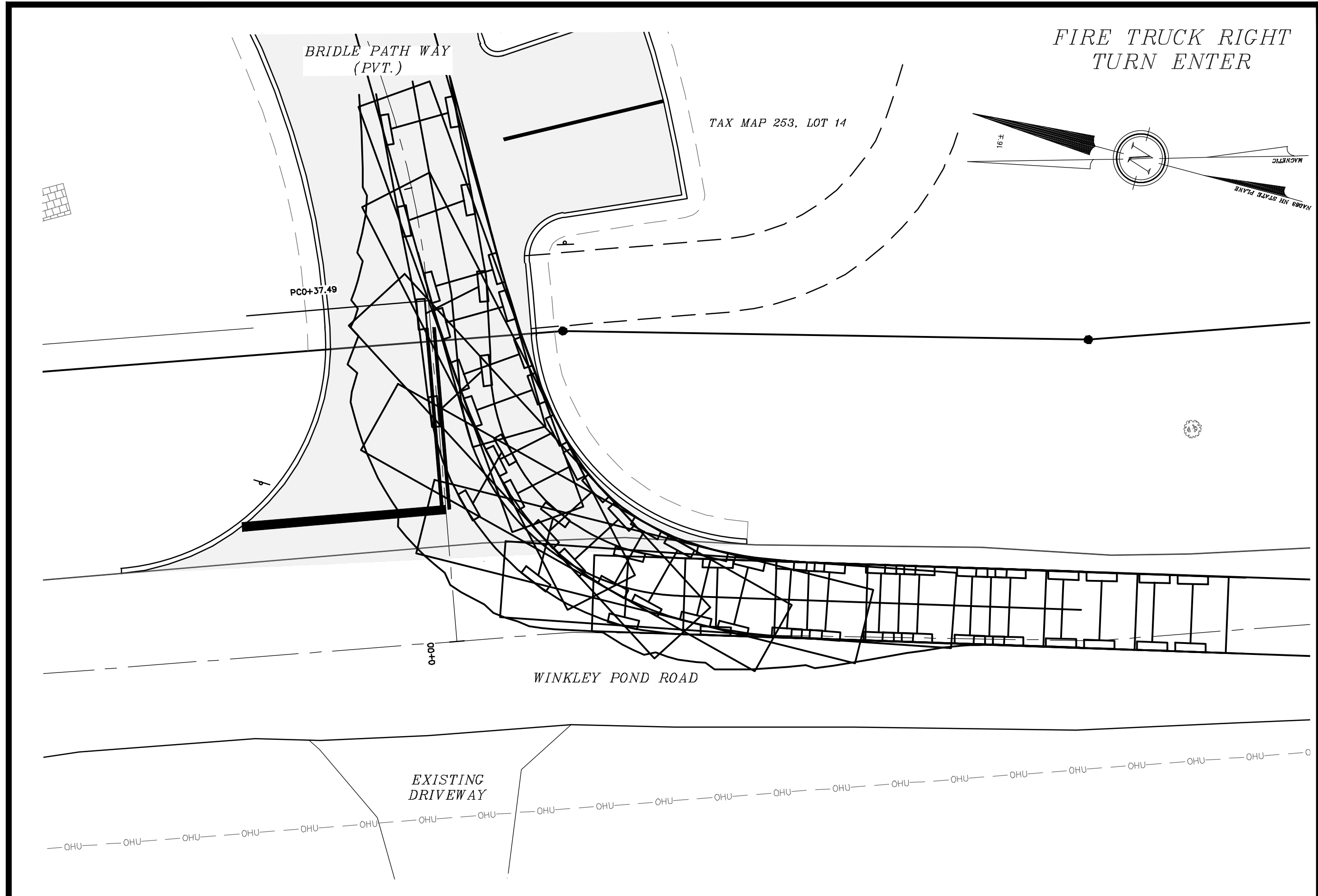
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS NOTED
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163



FOR PLANNING BOARD APPROVAL PURPOSES:

THE SITE REVIEW REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SITE REVIEW REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.



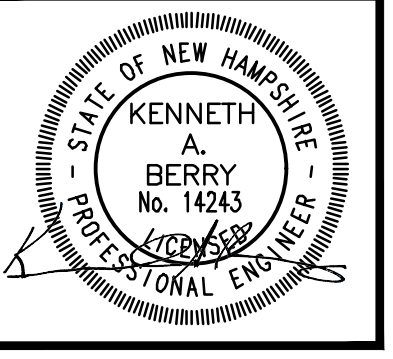
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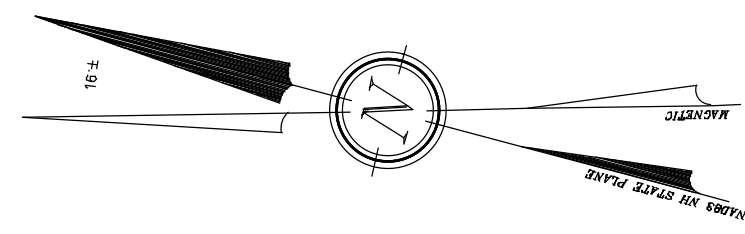
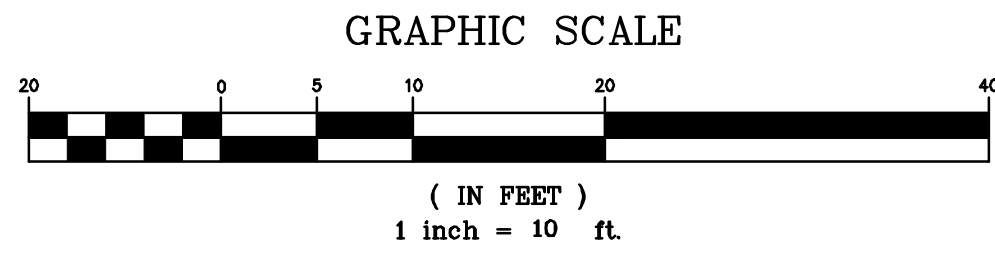
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REVISION #	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

FIRE TRUCK TURN MOVEMENTS INTERSECTION
LAND OF
HAMBONE LLC
49 WINKLEY POND ROAD
BARRINGTON, N.H.
TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 10 FT.
DATE : AUGUST 16, 2023
FILE NO. : DB 2021-163





FIRE TRUCK
HAMMERHEAD

FOR PLANNING BOARD APPROVAL PURPOSES:

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Vehicle | Trailer | Path

Description Fire Engine

Wheel Width 8.330

Wheel Length 20.000

Vehicle Width 8.330

Front Overhang 13.580

Rear Overhang 16.000

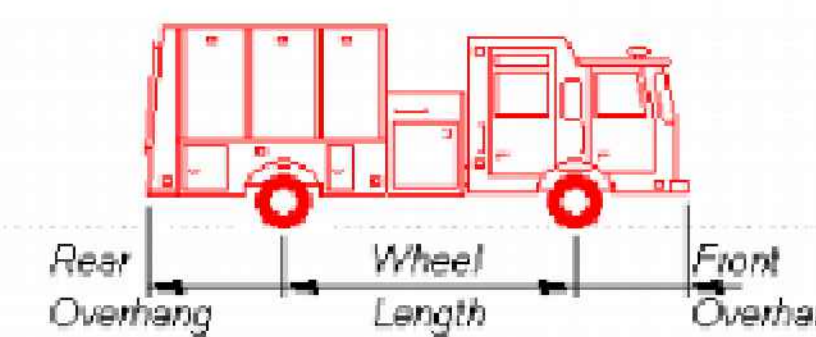
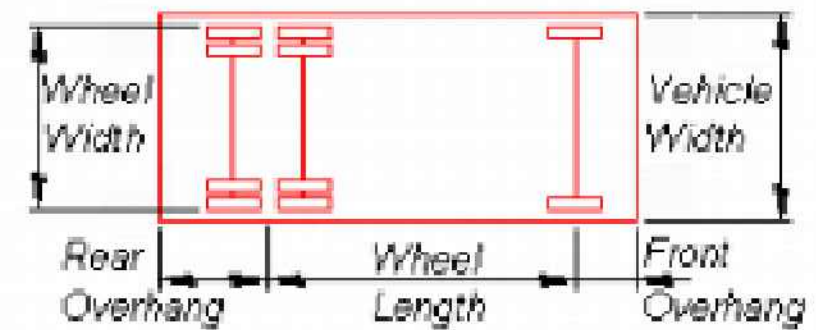
Tire Diameter 3.330

Rear Axle Count 2

Rear Axle Offset 4.200

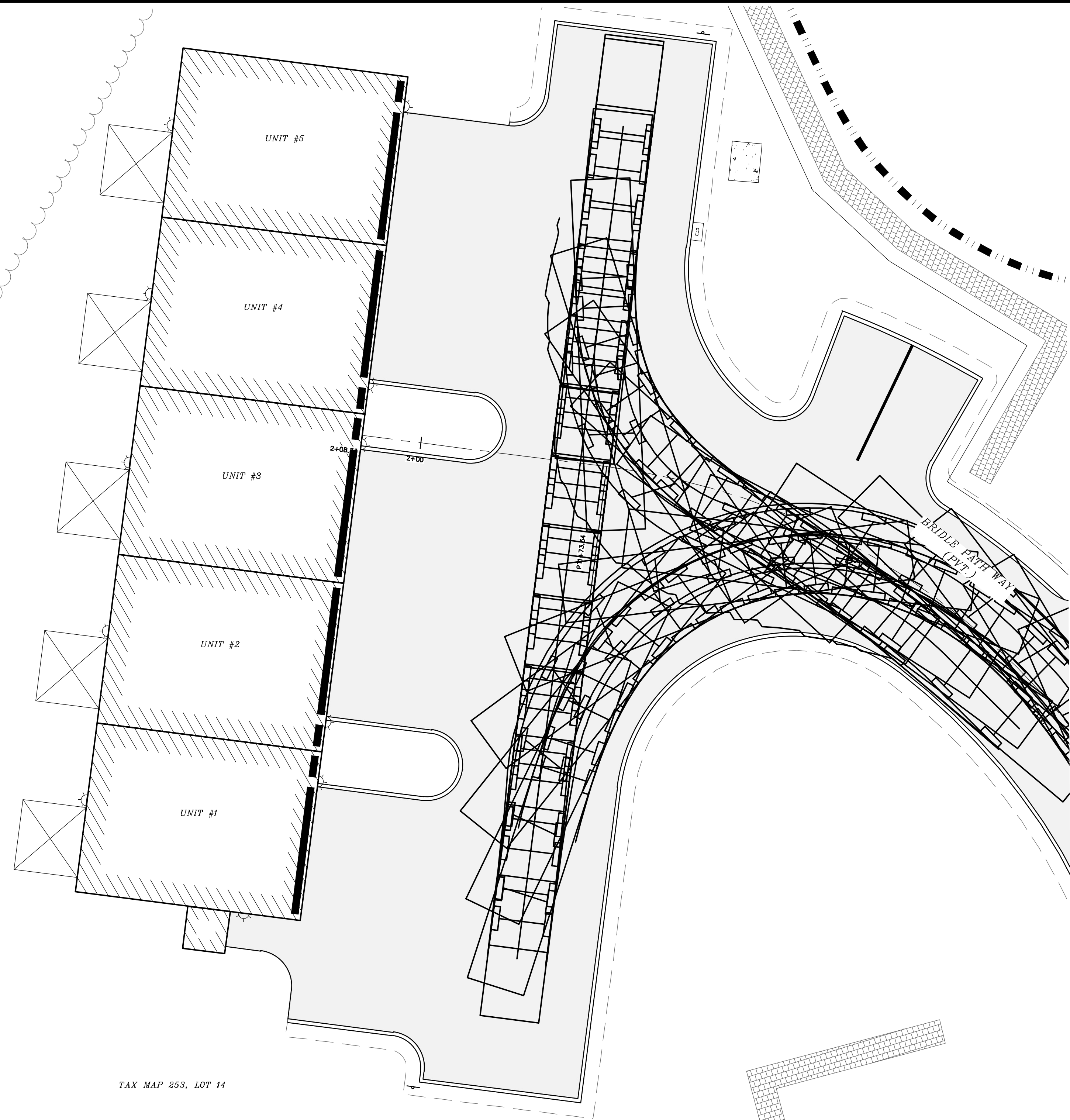
Section Type Fire Truck

Section Symbol Set



HAYES ROAD

TAX MAP 253, LOT 14



WINKLEY POND ROAD

REVISION #	DATE	DESCRIPTION
#1	11-8-23	REVISED PER CMA ENGINEERS REVIEW

FIRE TRUCK TURN TEMPLATE
 LAND OF
 HAMBONE LLC
 49 WINKLEY POND ROAD
 BARRINGTON, N.H.
 TAX MAP 253, LOT 14

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 (603)332-2863
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