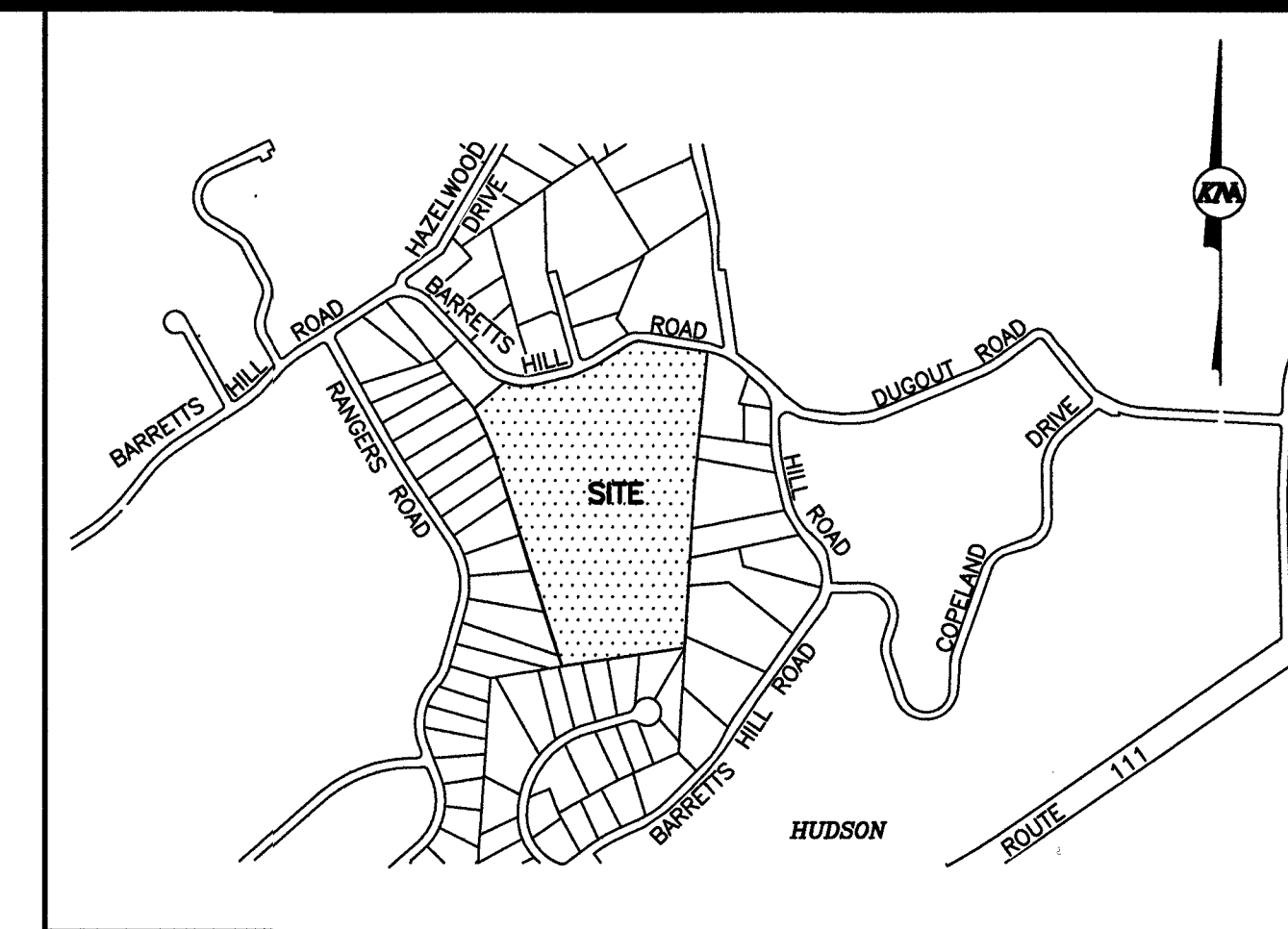


VICINITY PLAN
NOT TO SCALE

RESIDENTIAL SUBDIVISION BARRETT HILL SUBDIVISION

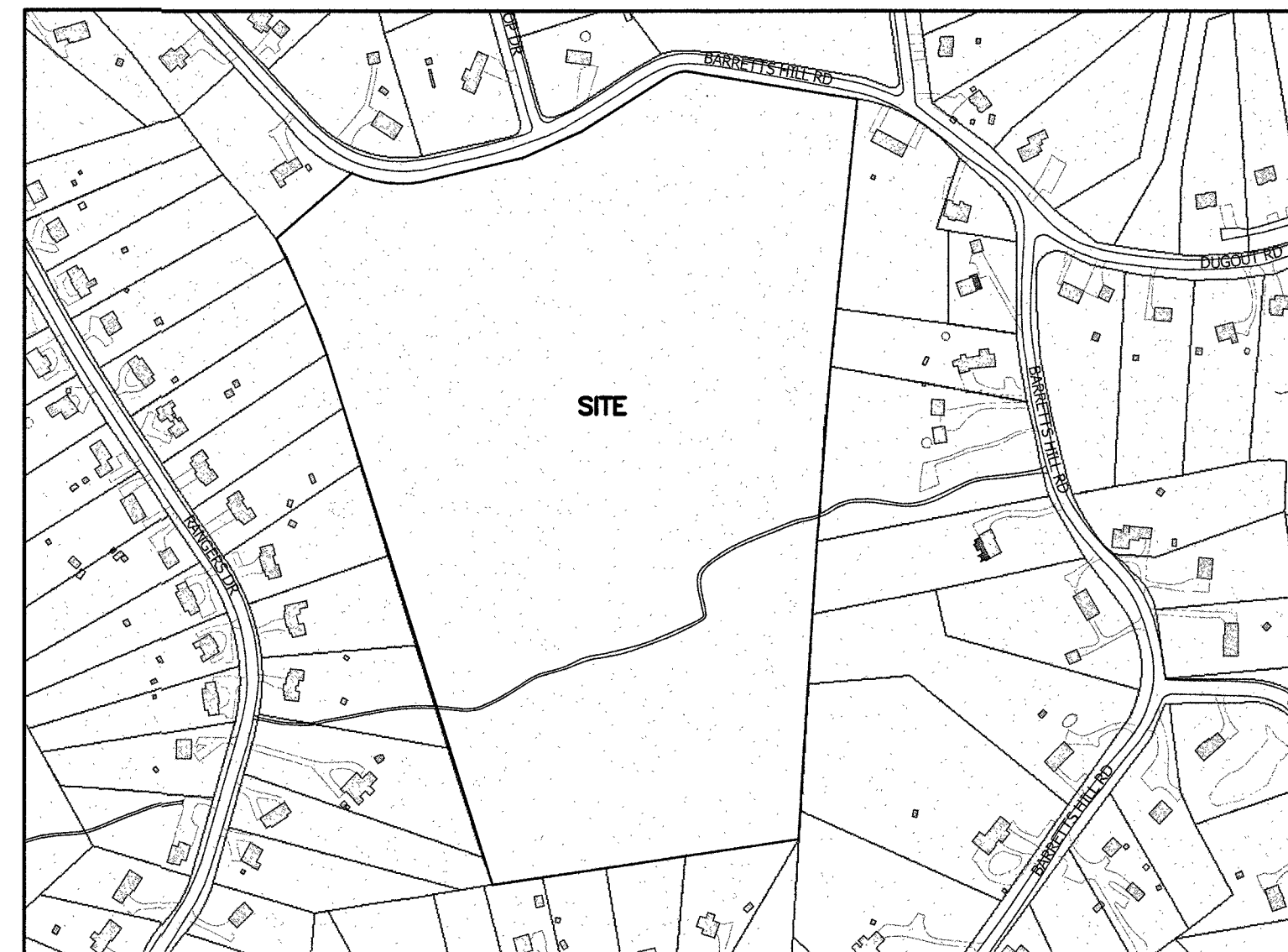
MAP 151; LOT 59
75 BARRETTS HILL ROAD
HUDSON, NEW HAMPSHIRE



LOCATION PLAN
SCALE: 1" = 1000'±

NHB23-3253 NEW HAMPSHIRE FISH AND GAME RECOMMENDED PERMIT CONDITIONS:

1. BLANDING'S TURTLE (STATE ENDANGERED) AND SPOTTED TURTLE (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET 22.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING WHILE THE PROJECT IS UNDER ACTIVE CONSTRUCTION.
3. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES. SEE PLAN SHEET 20.
4. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH - JUNE 30TH. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGVESY (978-579-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL ONSITE. SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY NHFG.
5. DEED RESTRICTION LANGUAGE SUBMITTED TO NHFG (ATTACHED ABOVE AS 2024 04 OPEN SPACE LANGUAGE REVISED) SHALL BE FINALIZED AS WRITTEN AND RECORDED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS PRIOR TO THE COMMENCEMENT OF WORK.
6. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
 - a. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
7. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
 - a. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE IF IN DIRECT HARM FROM PROJECT ACTIVITIES. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WAS HEADING. NHFG SHALL BE CONTACTED IMMEDIATELY IF THIS ACTION OCCURS.
8. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



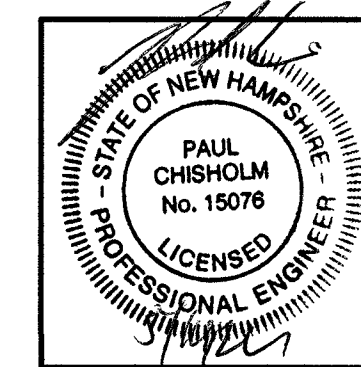
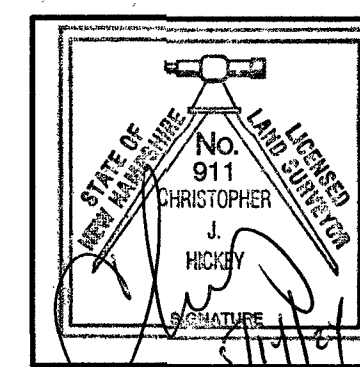
EXISTING FEATURES WITHIN 200 FT
NOT TO SCALE

OWNER/APPLICANT:

BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NEW HAMPSHIRE 03054

PREPARED BY:

KEACH-NORDSTROM ASSOCIATES, INC.
10 COMMERCE PARK NORTH, SUITE 3B
BEDFORD, NEW HAMPSHIRE 03110
(603) 627-2881



KMA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

DECEMBER 6, 2023

LAST REVISED: MAY 14, 2024

PROJECT NO. 23-0414-1

SHEET TITLE

PROJECT NOTES 1
 MASTER SUBDIVISION PLAN 2
 SUBDIVISION PLAN 3 - 4
 MASTER TOPOGRAPHIC SUBDIVISION PLAN 5
 TOPOGRAPHIC SUBDIVISION PLAN 6 - 7
 ROADWAY PLAN & PROFILES 8 - 9
 GRADING & DRAINAGE PLAN 10
 OFFSITE GRADING, DRAINAGE & EROSION CONTROL PLAN 11
 EROSION CONTROL PLAN 12
 SIGHT DISTANCE PLAN & PROFILE 13
 DRAINAGE PROFILES 14
 DRIVEWAY PROFILES 15
 CONSTRUCTION DETAILS 16 - 22
 TEST PIT LOGS 23
 CONVENTIONAL SUBDIVISION YIELD PLAN 24

SHEET No.

1
 2
 3 - 4
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NOTES:

- THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED 13 LOT RESIDENTIAL OPEN SPACE DEVELOPMENT ON ASSESSOR'S MAP 151 LOT 59 IN HUDSON, NEW HAMPSHIRE BY CREATING 13 CONDOMINIUM DUPLEX LOTS WITH 6 BEDROOMS EACH & ONE NON-BUILDABLE OPEN SPACE LOT.
- EACH LOT OWNER WITHIN THE OPEN SPACE SUBDIVISION SHALL POSSESS AN EQUAL SHARE OF THE COMMON OPEN SPACE AREA ASSOCIATED WITH THIS DEVELOPMENT.
- TOTAL SITE AREA: 1,540,252 S.F. OR 35.36 ACRES
- OWNER OF RECORD:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, N.H. 03054
HCRD BK. 9700 PG. 287
- THE SUBJECT PARCEL IS LOCATED WITHIN THE GENERAL (G-1) ZONING DISTRICT AND IS SUBJECT TO THE FOLLOWING DIMENSIONAL REQUIREMENTS:
MINIMUM BUILDING SETBACKS:
- FRONT 50 FT
- SIDE 15 FT
- REAR 15 FT
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY THIS OFFICE FROM APRIL TO NOVEMBER OF 2023.
- ALL DRILL HOLES ARE SET UNLESS OTHERWISE NOTED.
- HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD88 USING REAL TIME GPS SURVEYING METHODS.
- EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS (FIRM) FOR THE TOWN OF HUDSON, NEW HAMPSHIRE, HILLSBOROUGH COUNTY, MAP NUMBER 33011C05170, PANEL NUMBER 517 OF 701 AND MAP NUMBER 33011C0519D, PANEL NUMBER 519 OF 701, EFFECTIVE DATE SEPTEMBER 25, 2009, INDICATE THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED IN A DESIGNATED FLOOD ZONE.
- THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
- EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.
- THE OPEN SPACE SUBDIVISION IS TO BE SERVICED BY INDIVIDUAL WELLS & INDIVIDUAL SEPTIC SYSTEMS.
- PROPER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO CLEARING AND EXCAVATION. THE CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL COMPLETION OF CONSTRUCTION. THE TOWN OF HUDSON RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION, IF NECESSARY.
- IF DURING LOT DEVELOPMENT, SLOPES OF 2:1 EXCEED 20 FEET, 3:1 EXCEEDS 30 FEET, OR 4:1 EXCEEDS 40 FEET THE CONTRACTOR SHALL ADD BENCHING PER NHDES REQUIREMENTS.
- OPEN SPACE:
1. LOT 59 TOTAL AREA = 1,540,252 S.F.
2. TOTAL REQUIRED OPEN SPACE = 441,145 S.F.
- MIN. LOT SIZE = 87,120 S.F.
- TOTAL LOTS = 13
- TOTAL MIN. LOT SIZE = 1,132,560 S.F.
- TOTAL PROPOSED BUILDABLE AREA = 688,415 S.F.
- REQUIRED OPEN SPACE = 1,132,560 - 688,415 = 444,145 S.F.
3. TOTAL PROPOSED OPEN SPACE = 754,352 S.F.
AREAS TO BE REMOVED FROM TOTAL OPEN SPACE:
- ROADWAYS, DRIVEWAYS, RIGHT-OF-WAYS, PARKING AREAS, & OTHER DEVELOPED AREAS = 59,606 S.F.
- PSNH EASEMENT = 134,782 S.F.
- DRAINAGE/ACCESS EASEMENTS = 75,977 S.F.
- TOTAL = 270,365 SF
- TOTAL AREA TO BE REMOVED FROM TOTAL OPEN SPACE = 754,352 - 270,365 = 483,987 S.F.
- TOTAL PROPOSED OPEN SPACE = 483,987 S.F. > 444,145 S.F.
- PERMITS REQUIRED:
- NHDES AOT
- NHDES SUBDIVISION
- NHDES INDIVIDUAL SUBSURFACE DISPOSAL (SEPTIC SYSTEMS)
- NHDOT EXCAVATION PERMIT
- THE ONSITE DRAINAGE SYSTEM SHALL BE CONSTRUCTED AND MAINTAINED IN COMPLIANCE WITH LOCAL AND NHDES REQUIREMENTS FOR SUCH SYSTEMS.
- IF LOT DEVELOPMENT INVOLVES BLASTING AND/OR RAMMING OF BEDROCK MATERIALS, SAID ACTIVITIES SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 5:00 P.M. MONDAY THROUGH FRIDAY ONLY. SAID BLASTING / RAMMING ACTIVITIES ARE PROHIBITED ON SATURDAY AND SUNDAY.
- CONSTRUCTION ACTIVITIES INVOLVING THE LOTS SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 6:00 P.M., MONDAY THROUGH FRIDAY. INTERIOR CONSTRUCTION ACTIVITIES ARE ALLOWED ON SATURDAY 7:00 A.M. AND 6:00 P.M. BOTH INTERIOR AND EXTERIOR CONSTRUCTION ACTIVITIES ARE PROHIBITED ON SUNDAYS.
- STONE BOUNDS (5"X5"X30") TO BE SET AT ALL POINTS OF CURVATURE ON THE RIGHT-OF-WAY AND (4"X"X36") TO BE SET AT PROPERTY CORNERS ALONG THE RIGHT-OF-WAY. IRON PINS (5/8"X30") TO BE SET AT ALL OTHER BOUNDARY CORNERS.
- AN IMPERVIOUS LINER SHALL BE REQUIRED FOR THE POCKET POND UNLESS DETERMINED OTHERWISE BY THE DESIGN ENGINEER DURING CONSTRUCTION WHEN THE POND IS AT SUBGRADE, AND IS EITHER MORE THAN 5 FEET BELOW SEASONAL HIGH WATER TABLE AND/OR IN COMPLETE LEDGE.
- THIS APPROVAL IS SUBJECT TO FINAL ENGINEERING REVIEW.
- THIS PROJECT MEETS THE 2019 MS4 REQUIREMENTS.
- THIS PLAN SET CONTAINS 23 SHEETS, SHEETS 1 THRU 4 SHALL BE RECORDED IN HILLSBOROUGH COUNTY REGISTRY OF DEEDS AND THE COMPLETE SET IS ON FILE IN THE HUDSON PLANNING DEPARTMENT.
- THERE WILL BE NO EXTERIOR LIGHTING.
- MAXIMUM BUILDING HEIGHT SHALL NOT EXCEED 38 FEET.
- IT IS THE INTENT OF THE APPLICANT TO CONSTRUCT INDIVIDUAL CONDEX UNITS ON EACH PROPOSED BUILDING LOT.
- THE APPLICANT SHALL PROVIDE A BOND FOR ONSITE AND OFFSITE IMPROVEMENTS WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY, PRIOR TO RECORDING THE PLANS.
- THE APPLICANT SHALL TRANSFER THE OWNERSHIP OF THE ROAD TO THE TOWN AND TO THE SATISFACTION OF THE TOWN PRIOR TO RECEIVING THE LAST CERTIFICATE OF OCCUPANCY OF THE LAST LOT.
- THE SUBJECT PROPERTY DOES NOT CONTAIN ANY WATER FEATURES OR WETLANDS AS VERIFIED BY CHRISTOPHER DANFORTH, CWS #077.
- THE FIRE CISTERN SHALL BE INSTALLED PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.
- THE PROPOSED WELL LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO CHANGE BASED ON INDIVIDUAL LOT DEVELOPMENT AND IN FIELD CONDITIONS. ONCE FINAL WELL LOCATIONS ARE DETERMINED, WELL RADIUS EASEMENTS SHALL BE RECORDED PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

WAIVER REQUESTS:

THE FOLLOWING WAIVER IS REQUESTED FROM THE TOWN OF HUDSON SUBDIVISION REGULATIONS:
1. HTC 289-37(A) - LOT PHASING

STATE LOT SIZING CALCULATIONS:

THE PREDOMINANT SOIL GROUP CHATFIELD-HOLLIS COMPLEX. THE MOST RESTRICTIVE UPLAND SLOPE IS "D" MINIMUM LOT LOADING FACTOR USED IS 1.73.

LOT DENSITY FOR OPEN SPACE SUBDIVISION IS:
TOTAL AREA OF EXISTING PARCEL = 35.36 ACRE
- WETLAND AREA = 0 ACRES
- STEEP SLOPES = 8.08 ACRES
- WELLS = 8.3
NET AREA FOR LOT LOADING = 18.98 ACRES
18.98 ACRES x 2,000 GPD/AC./1.73 = 21,942 GPD ALLOWED
21,942 GPD = 146 BEDROOMS ALLOWED ON LOT (78 PROPOSED)

REFERENCE PLANS:

- "LOT LINE RELOCATION TO INCLUDE WELL SURVEYED FOR GEORGE BOYER BARRETT'S HILL ROAD HUDSON, N.H." SCALE: 1"=40'. DATED: JANUARY 10, 1978. PREPARED BY: PLANTIDOSI ASSOCIATES, INC. H.C.R.D. PLAN #11141
- "BOUNDARY PLAN BARRETT'S HILL ROAD HUDSON, NEW HAMPSHIRE. PREPARED FOR: MICHAEL F. CALLAHAN ET.UX." SCALE: 1"=100'. DATED: OCTOBER 5, 1979. PREPARED BY: ALLEN H. SWANSON, INC. H.C.R.D. PLAN #12696
- "DECLARATION OF CONDOMINIUM SITE PLAN HILL TO HOUSE -A CONDOMINIUM-" SCALE: 1"=20'. DATED: AUGUST 6, 1981. PREPARED BY: THOMAS F. MORAN INC. H.C.R.D. PLAN #15313
- "SUBDIVISION PLAN BARRETT'S HILL ROAD HUDSON, N.H. PREPARED FOR JOHN JACOBS." SCALE: 1"=50'. DATED: SEPTEMBER 25, 1985. PREPARED BY: STEVEN J. PATRICK & ASSOCIATES. H.C.R.D. PLAN #19495
- "MALLARD DRIVE SUBDIVISION CONSOLIDATION AND RESUBDIVISION PLAN." SCALE: 1"=80'. DATED: AUGUST, 1985. PREPARED BY: COSTELLO, LOMASNEY & DE NAPOLI, INC. H.C.R.D. PLAN #22145
- "CONSOLIDATION & SUBDIVISION PLAN LOT 54 MAP 31" SCALE: 1"=50'. DATED: AUGUST 1986. PREPARED BY: MAYNARD & PAQUETTE, INC. H.C.R.D. PLAN #22146
- "CONDOMINIUM PLAN OF LAND IN HUDSON, N.H. PREPARED FOR JOHN JACOBS." SCALE: 1"=50'. DATED: AUGUST 30, 1990. PREPARED BY: STEVEN J. PATRICK & ASSOCIATES LAND SURVEYORS. H.C.R.D. PLAN #24824
- "SUBDIVISION PLAN MASINGILL SUBDIVISION 65 BARRETT'S HILL ROAD, HUDSON, N.H." SCALE: 1"=50'. DATED: FEBRUARY 11, 1998. PREPARED BY: JONES & BEACH ENGINEERS, INC. H.C.R.D. PLAN #28219

SCS SOILS LEGEND

CaB	CANTON FINE SANDY LOAM, 0-8% SLOPES
CaC	CANTON FINE SANDY LOAM, 8-15% SLOPES
CmC	CANTON FINE SANDY LOAM, 8-15% SLOPES, VERY STONY
CpD	CHATFIELD-HOLLIS-CANTON COMPLEX, 15-25% SLOPES VERY ROCKY
CsC	CHATFIELD-HOLLIS COMPLEX, 8-15% SLOPES, ROCKY
Sr	SCARBORO STONY MUCKY LOAMY SAND
SsB	SCITUATE FINE SANDY LOAM, 0-3 % SLOPES
StB	SCITUATE STONY FINE SANDY LOAM, 3-8% SLOPES

SOURCE: USDA-SCS WEB SOIL SURVEY

SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSG
448B	SCITUATE	3-8%	MODERATELY WELL DRAINED	C
448C	SCITUATE	8-15%	MODERATELY WELL DRAINED	C
448D	SCITUATE	15-25%	MODERATELY WELL DRAINED	C
44B	MONTAUK	3-8%	WELL DRAINED	C
44C	MONTAUK	8-15%	WELL DRAINED	C
44D	MONTAUK	15-25%	WELL DRAINED	C

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOILS SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, PRODUCED BY A CERTIFIED SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE. THERE IS A NARRATIVE REPORT THAT ACCOMPANIES THIS MAP AND MAP KEY.

TABLE OF SUBDIVISION LOT AREAS

MAP	LOT NUMBER	LOT AREA (SF)	FRONTAGE (FT)	STEEP SLOPES (SF)	WETLANDS (SF)	NON-CONTIGUOUS AREA (SF)	BLA (SF)
151	59-1	43,785	335.00	0	0	0	43,785
151	59-2	43,702	195.83	0	0	0	43,702
151	59-3	62,051	100.00	0	0	0	62,051
151	59-4	55,409	100.57	0	0	0	55,409
151	59-5	46,995	102.12	0	0	0	46,995
151	59-6	46,435	100.52	0	0	0	46,435
151	59-7	62,521	100.95	18,588	0	0	43,933
151	59-8	57,445	100.05	5,040	0	0	52,405
151	59-9	77,869	221.83	6,604	0	0	71,265
151	59-10	75,659	164.14	4,289	0	0	71,370
152	70	60,124	100.00	3,325	0	0	56,799
152	71	47,988	153.96	32	0	0	47,956
152	72	46,311	195.59	0	0	0	46,311
	Totals	726,294		37,879			688,415
	Right of Way	59,606	---	---	---	---	---
	Open Space	754,352	---	---	---	---	---
	Total	1,540,252					

PROJECT NOTES

BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER/APPLICANT:

BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287



KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023

SCALE: NONE

PROJECT NO: 23-0414-1

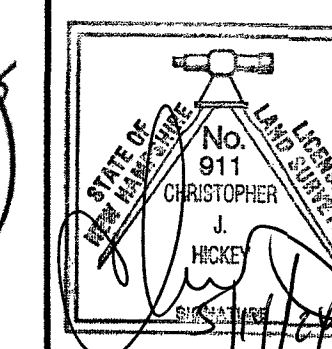
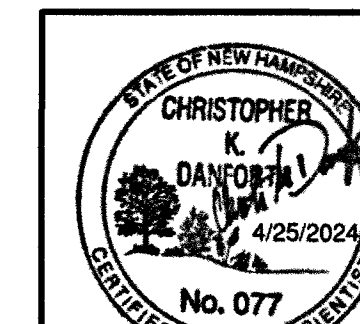
SHEET: 1 OF 24

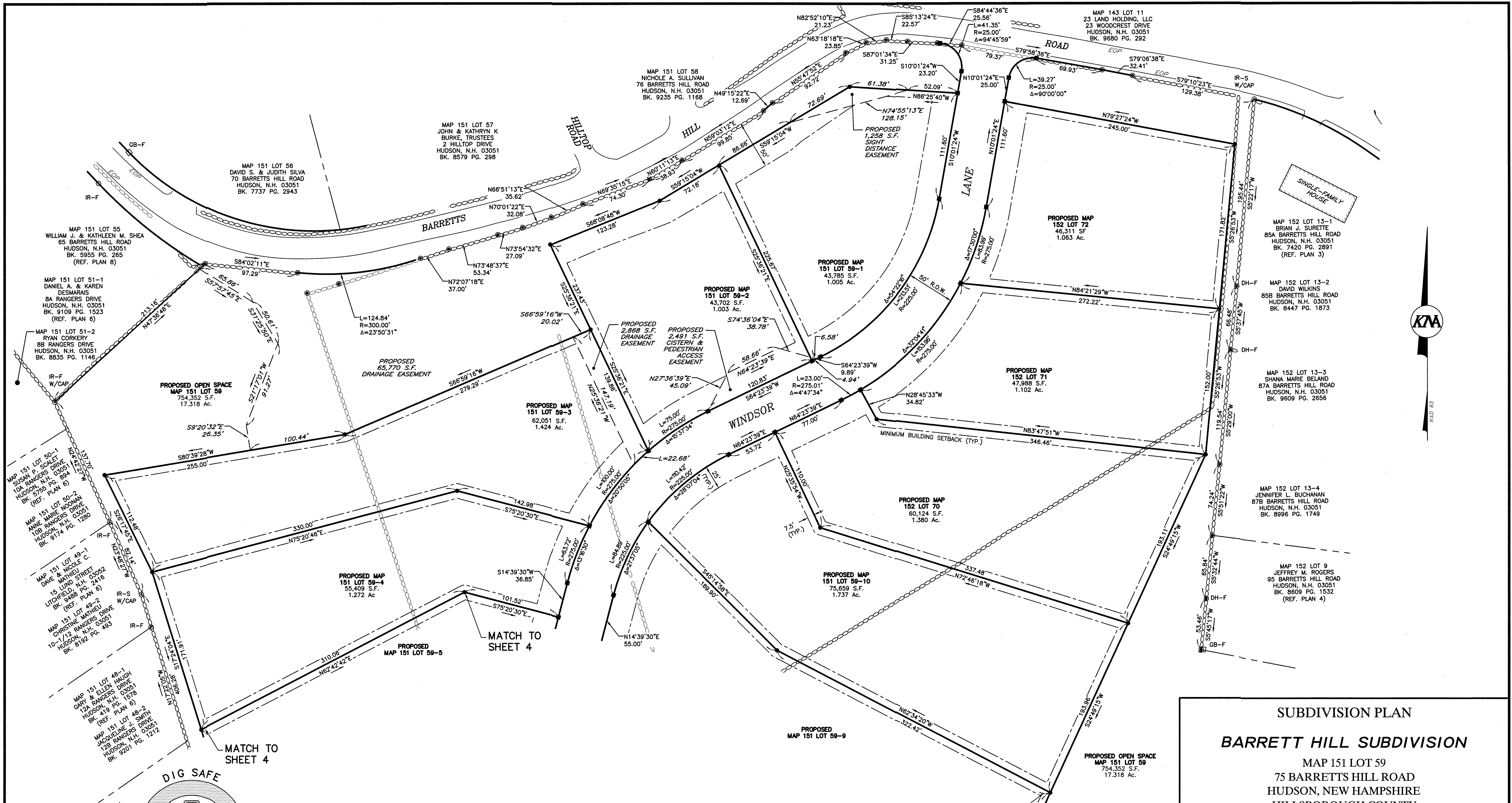
APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

SIGNATURE DATE: _____

SIGNATURE DATE: _____

SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

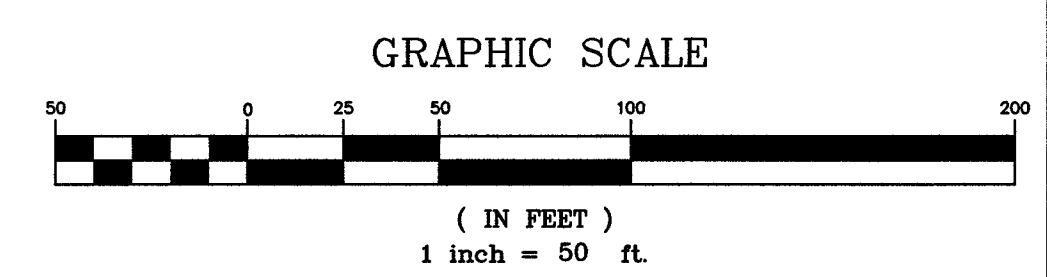




SUBDIVISION PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
 H.C.R.D. BK. 9700 PG. 287

KMA
 KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881



SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE APRIL TO NOVEMBER OF 2023. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

5/14/24
 LICENSED LAND SURVEYOR DATE

REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: 1"=50'
 PROJECT NO: 23-0414-1 SHEET: 3 OF 24

- LEGEND**
- GB-F GRANITE BOUND FOUND
 - GB-F GRANITE BOUND TO BE SET
 - IR-F IRON ROD TO BE SET
 - IR-F IRON ROD FOUND
 - IR-S IRON ROD SET
 - DH-F DRILL HOLE FOUND
 - DRILL HOLE SET
 - ABUTTER LINE
 - PROPERTY LINE
 - EOP EDGE OF PAVEMENT
 - STONEWALL
 - SETBACK

SEE SHEET 1 FOR NOTES & REFERENCE PLANS

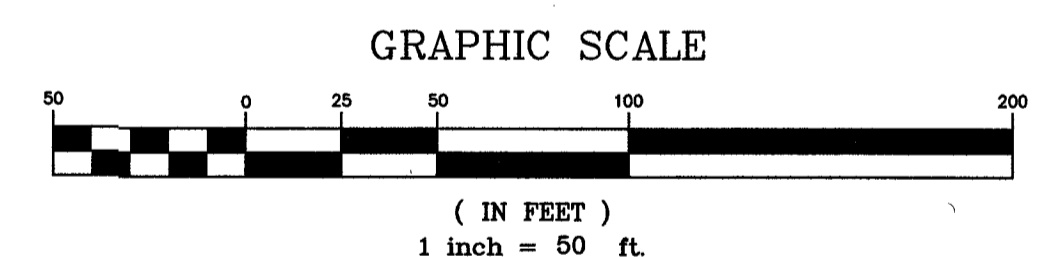
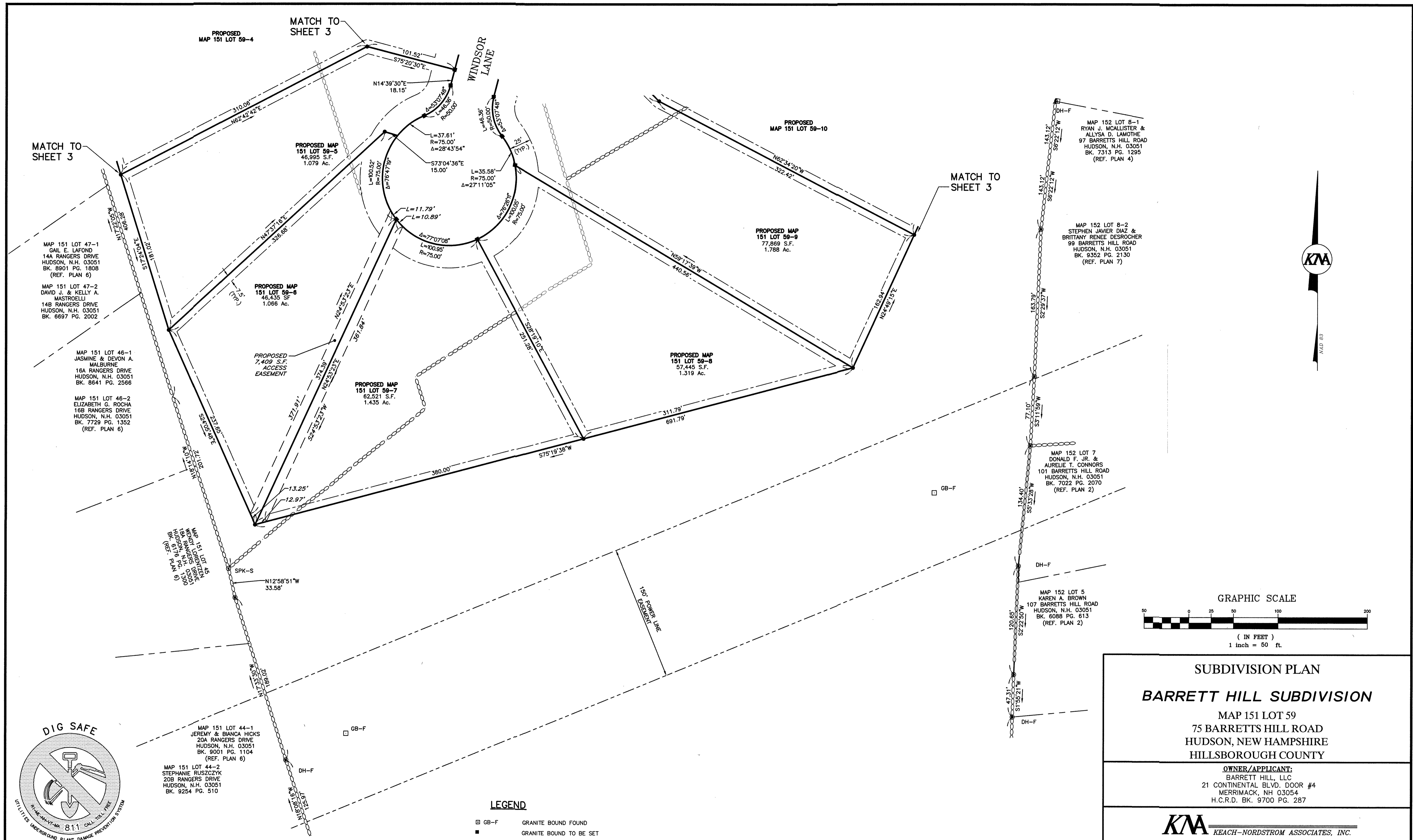
APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____

 SIGNATURE DATE: _____

 SIGNATURE DATE: _____

SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.





SUBDIVISION PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
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KMA KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881



APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____

 SIGNATURE DATE: _____

 SIGNATURE DATE: _____

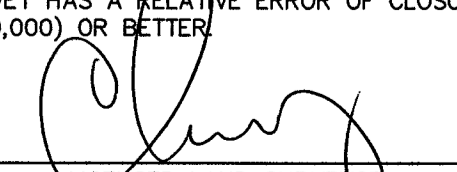
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

- LEGEND**
- GB-F GRANITE BOUND FOUND
 - GRANITE BOUND TO BE SET
 - IR-F IRON ROD TO BE SET
 - IR-F IRON ROD FOUND
 - ⊙ IR-S IRON ROD SET
 - ⊙ DH-F DRILL HOLE FOUND
 - ⊙ DRILL HOLE SET
 - ABUTTER LINE
 - PROPERTY LINE
 - EOP EDGE OF PAVEMENT
 - STONEWALL
 - SETBACK

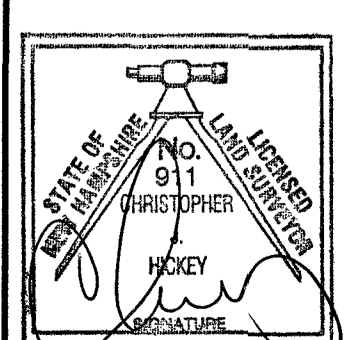
SEE SHEET 1 FOR NOTES & REFERENCE PLANS

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE APRIL TO NOVEMBER OF 2023. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

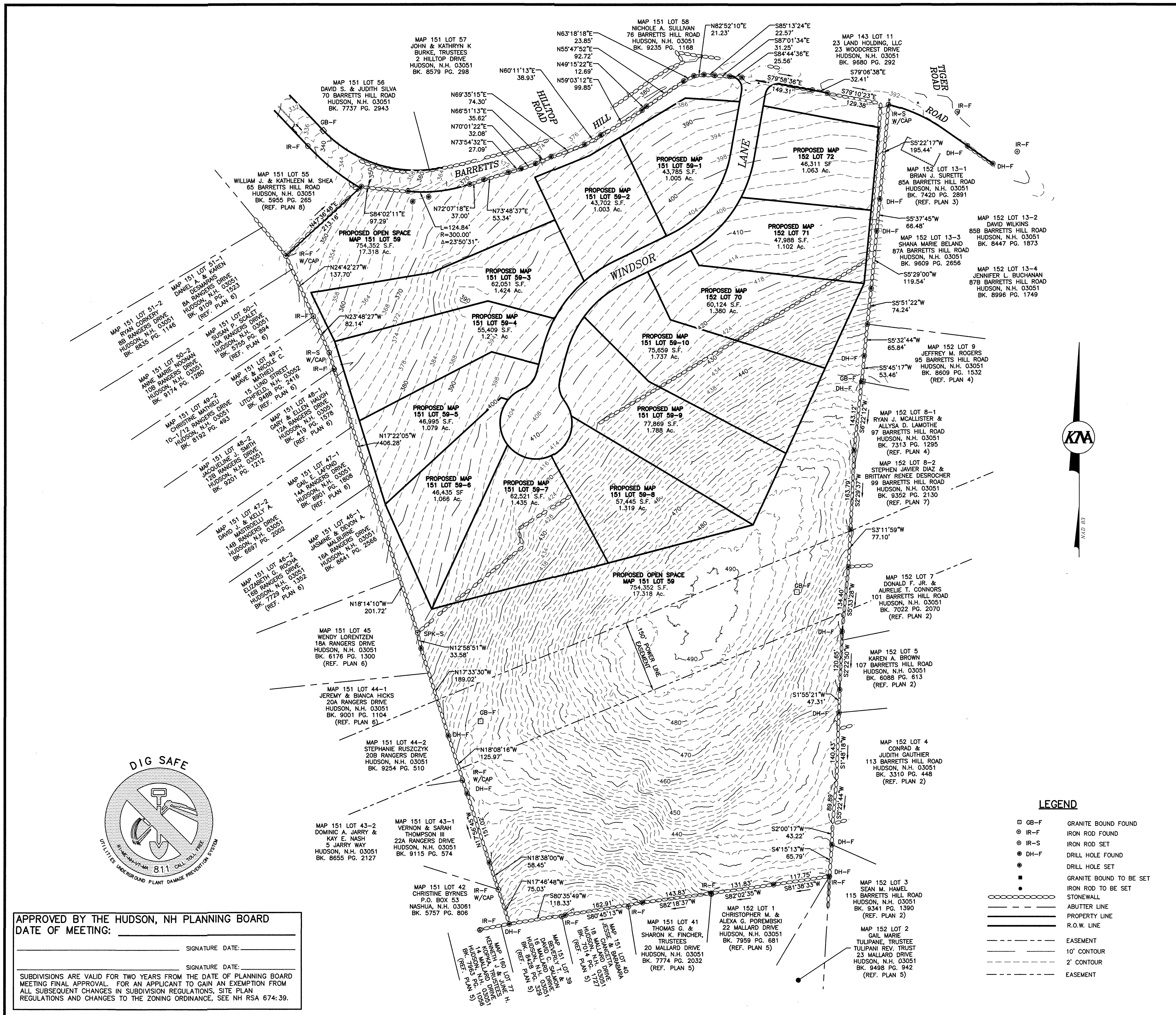

 LICENSED LAND SURVEYOR

5/14/24
 DATE

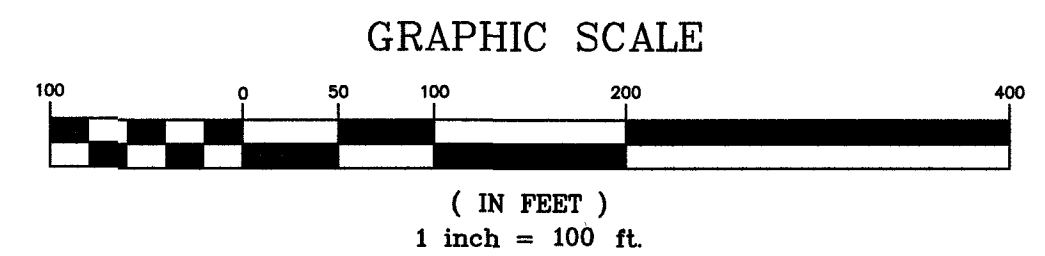


REVISIONS			
No.	DATE	DESCRIPTION	BY
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2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: 1"=50'
 PROJECT NO: 23-0414-1 SHEET: 4 OF 24



SEE SHEET 1 FOR NOTES & REFERENCE PLANS



TOPOGRAPHIC MASTER SUBDIVISION PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
 H.C.R.D. BK. 9700 PG. 287

KMA
 KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

- LEGEND**
- GB-F GRANITE BOUND FOUND
 - IR-F IRON ROD FOUND
 - IR-S IRON ROD SET
 - DH-F DRILL HOLE FOUND
 - DRILL HOLE SET
 - GRANITE BOUND TO BE SET
 - IRON ROD TO BE SET
 - STONEWALL
 - ABUTTER LINE
 - PROPERTY LINE
 - R.O.W. LINE
 - EASEMENT
 - 10' CONTOUR
 - 2' CONTOUR
 - EASEMENT

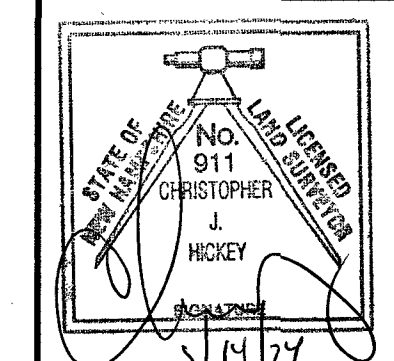


APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____

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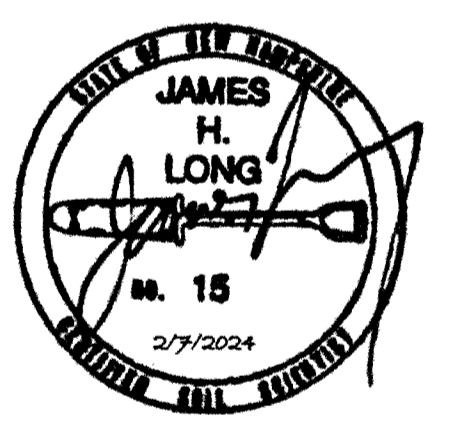
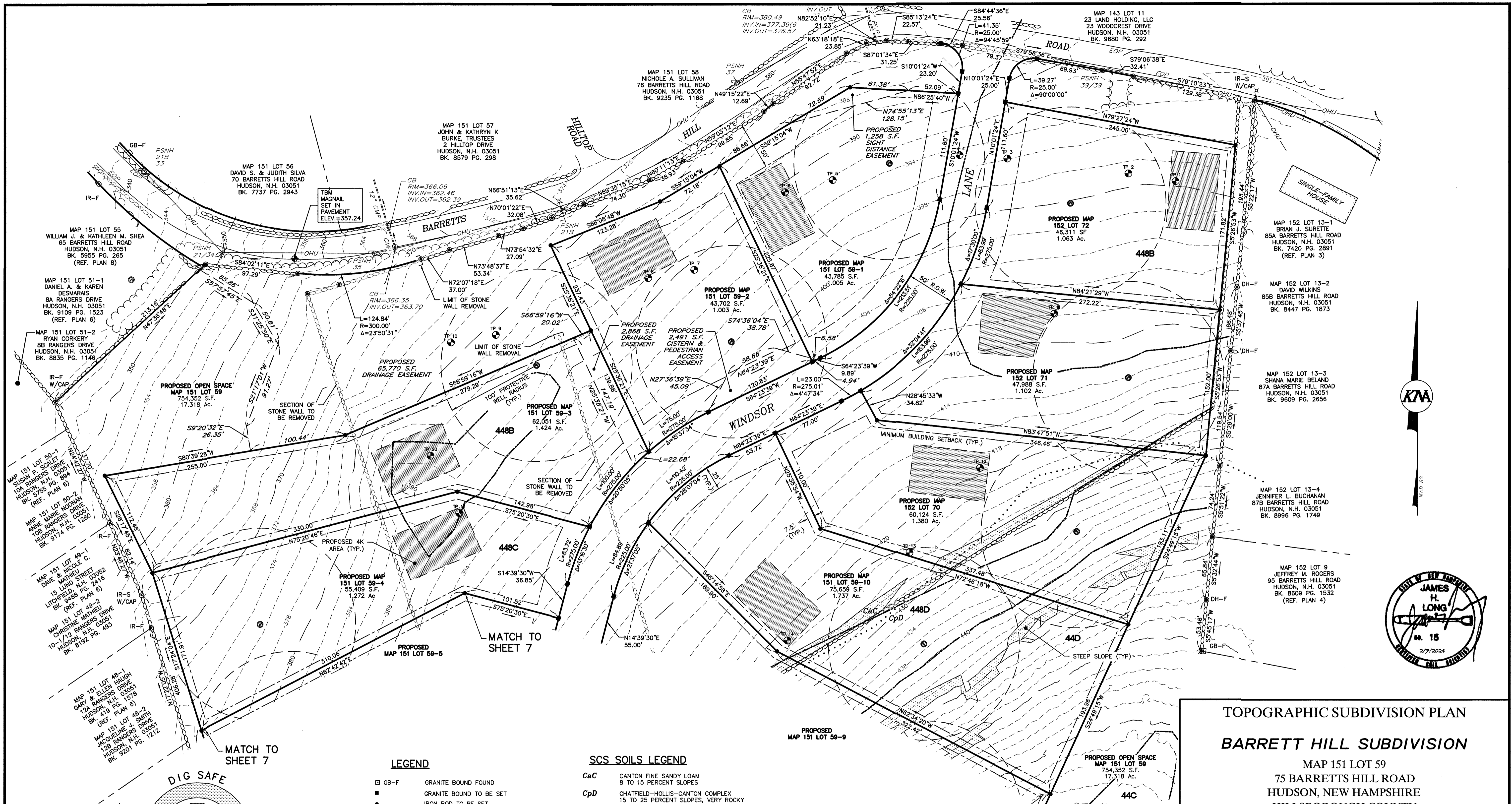
SIGNATURE DATE: _____

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DATE: DECEMBER 6, 2023 SCALE: 1"=100'
 PROJECT NO: 23-0414-1 SHEET: 5 OF 24



TOPOGRAPHIC SUBDIVISION PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
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REVISIONS			BY
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DATE: DECEMBER 6, 2023 SCALE: 1"=50'
 PROJECT NO: 23-0414-1 SHEET: 6 OF 24

LEGEND

- GB-F GRANITE BOUND FOUND
- GRANITE BOUND TO BE SET
- IR-F IRON ROD FOUND
- IR-S IRON ROD SET
- DH-F DRILL HOLE FOUND
- DRILL HOLE SET
- BENCHMARK
- CATCH BASIN
- TEST PIT
- PROPOSED WELL
- SSS SOIL LINE
- SCS SOIL LINE
- DRAINAGE LINE
- TREELINE
- ABUTTER LINE
- PROPERTY LINE
- EOP EDGE OF PAVEMENT
- STONEWALL
- SETBACK

SCS SOILS LEGEND

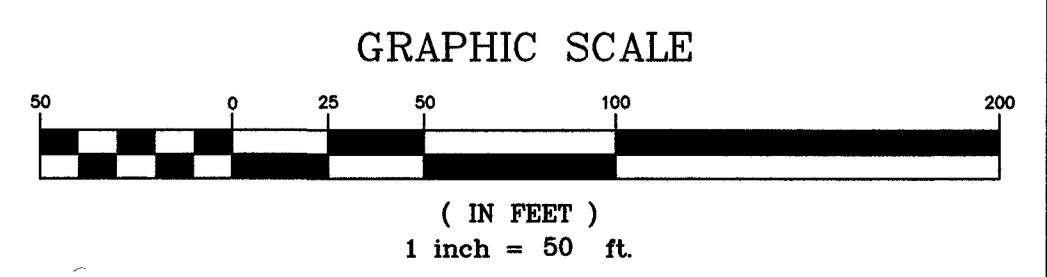
- CaC CANTON FINE SANDY LOAM
8 TO 15 PERCENT SLOPES
 - CpD CHATFIELD-HOLLIS-CANTON COMPLEX
15 TO 25 PERCENT SLOPES, VERY ROCKY
- SOURCE: USDA-SCS WEB SOIL SURVEY
 HILLSBOROUGH COUNTY

SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSG
448B	SQTUATE	3-8%	MODERATELY WELL DRAINED	C
448C	SQTUATE	8-15%	MODERATELY WELL DRAINED	C
448D	SQTUATE	15-25%	MODERATELY WELL DRAINED	C
44B	MONTAUK	3-8%	WELL DRAINED	C
44C	MONTAUK	8-15%	WELL DRAINED	C
44D	MONTAUK	15-25%	WELL DRAINED	C

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOILS SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, PRODUCED BY A CERTIFIED SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE. THERE IS A NARRATIVE REPORT THAT ACCOMPANIES THIS MAP AND MAP KEY.

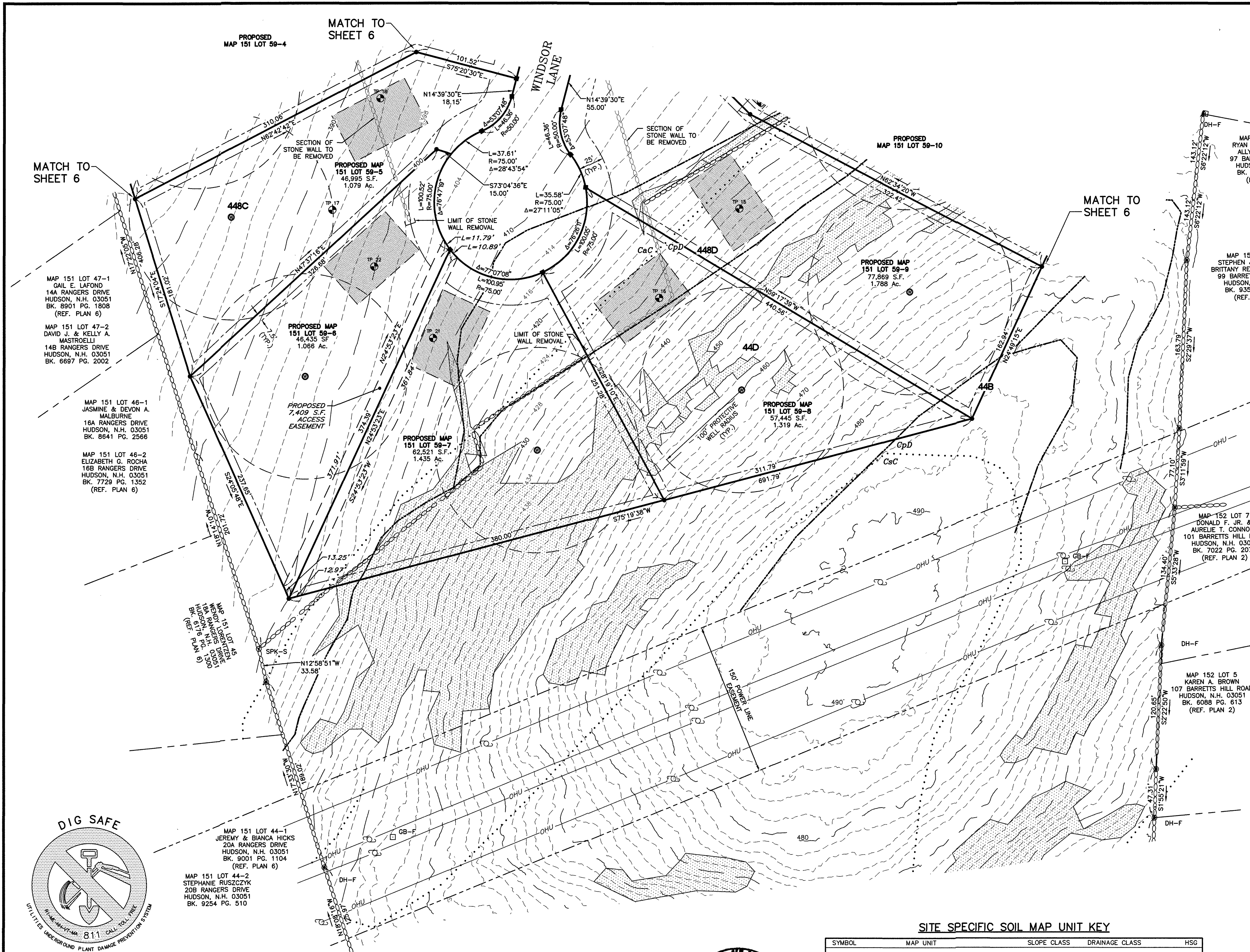
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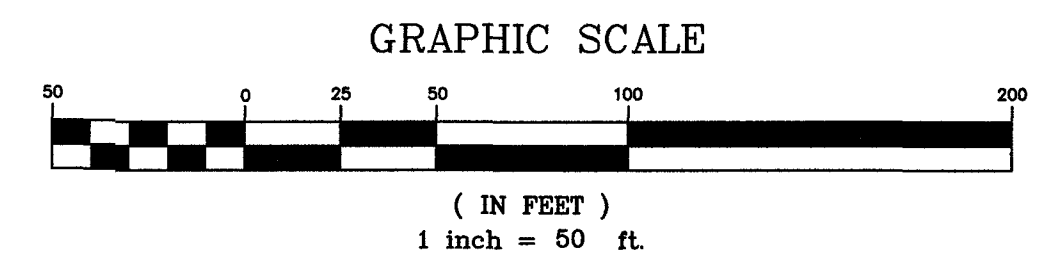
SCS SOILS LEGEND

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8 TO 15 PERCENT SLOPES
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HILLSBOROUGH COUNTY

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TOPOGRAPHIC SUBDIVISION PLAN
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

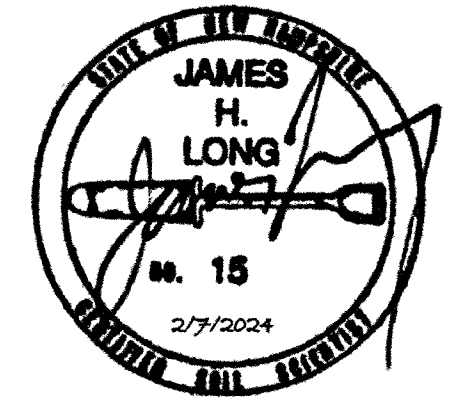
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DATE: DECEMBER 6, 2023 SCALE: 1"=50'
PROJECT NO: 23-0414-1 SHEET: 7 OF 24

LOAM & SEED ALL DISTURBED AREAS (TYP.)

LINE TABLE

NUMBER	LENGTH	BEARING
L1	186.60	S10° 01' 23.79"W
L2	130.72	S64° 23' 39.45"W
L3	64.95	S14° 39' 29.83"W

CURVE TABLE

NUMBER	RADIUS	LENGTH	CHORD BEARING
C1	250.000	237.238	S37° 12' 31.62"W
C2	250.000	217.014	S39° 31' 34.64"W
C3	54.000	55.653	S44° 11' 01.04"W
C4	51.000	265.345	S75° 20' 30.11"E
C5	54.000	55.653	N14° 52' 01.25"W

EXCAVATION AND EMBANKMENT NOTES:

- LEDGE AND BOULDER EXCAVATION AND REMOVAL
-ALL LEDGE AND BOULDER EXCAVATION AND REMOVAL ACTIVITIES SHALL CONFORM WITH SECTION 203 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS PUBLISHED BY THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION AND TOWN REQUIREMENTS FOR BLASTING PERMITS/SUBMITTALS. NO LEDGE OR BOULDERS SHALL BE BURIED WITHIN THE TOWN OWNED RIGHT-OF-WAY.
- STUMP REMOVAL AND DISPOSAL
-STUMPS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STANDARDS. PRIOR TOWN APPROVAL IS REQUIRED FOR ANY ON-SITE STUMP BURIALS. STUMPS CANNOT BE BURIED OR OTHERWISE DISPOSED OF WITHIN THE TOWN OWNED RIGHT-OF-WAY.
- OFF-SITE FILL MATERIAL
-CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING, CONTAINING, AND DULY REMOVING ALL CONSTITUENTS OF CONCERN BROUGHT TO THE SITE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS, OR ANYONE ELSE FOR WHOM CONTRACTOR IS RESPONSIBLE, AND FOR ANY ASSOCIATED COSTS; AND FOR THE COSTS OF REMOVING AND REMEDIATING ANY HAZARDOUS ENVIRONMENTAL CONDITION CREATED BY THE PRESENCE OF ANY SUCH CONSTITUENTS OF CONCERN.
-CONTRACTOR SHALL NOT IMPORT ANY FILL OVER THE AMOUNT OF TEN CUBIC YARDS CUMULATIVE TOTAL PER SOURCE TO ANY JOB SITE IN THE TOWN OF HUDSON WITHOUT SOILS TESTING VERIFYING THE ABSENCE OF ALL CONSTITUENTS OF CONCERN, AND WITHOUT PRIOR APPROVAL BY ENGINEERING DEPARTMENT STAFF. DOCUMENTATION SUCH AS TEST REPORTS, CERTIFICATIONS AND SIEVE ANALYZES OF FILL SHALL BE PROVIDED TO THE ENGINEERING DEPARTMENT FOR APPROVAL PRIOR TO TRANSPORTING THE MATERIAL TO HUDSON.



NPDES NOTE

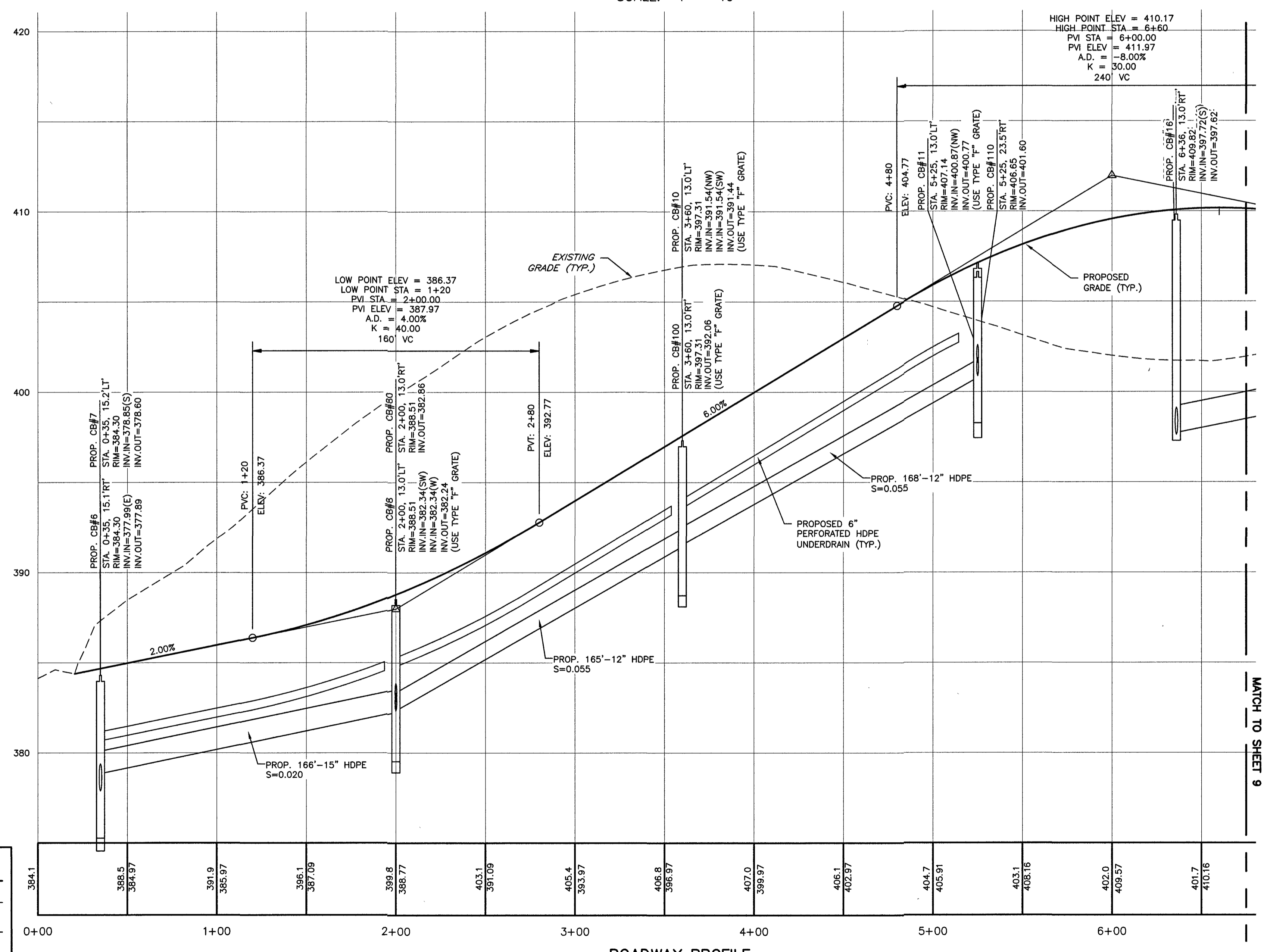
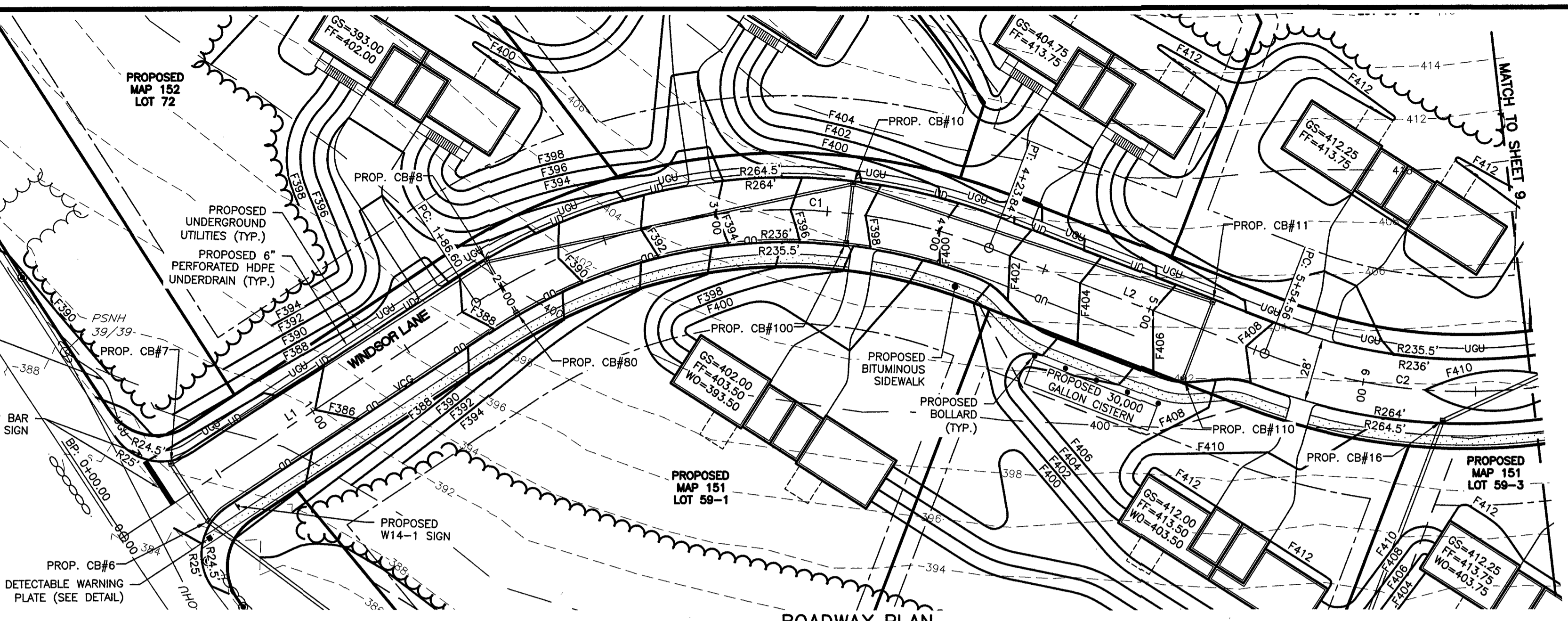
THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

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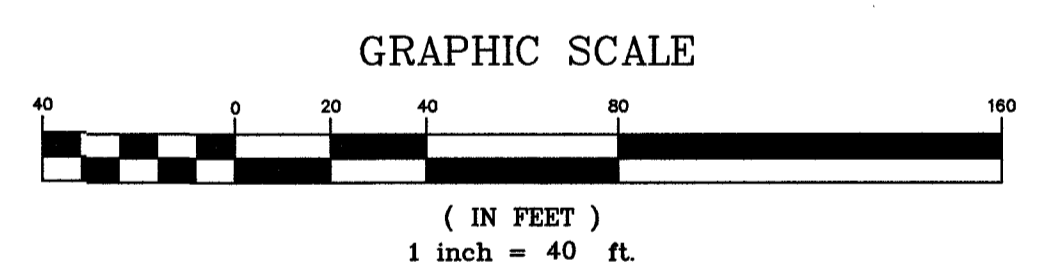


CONSTRUCTION NOTES:

- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED ROADWAY DESIGN, GRADING, AND UTILITIES FOR THIS SITE.
- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF HUDSON, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK PERFORMED IN THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, APPROVED AND ADOPTED 2016 ARE HEREBY INCORPORATED BY REFERENCE.
- CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS FOR ROAD CONSTRUCTION, PUBLIC WORKS DEPARTMENT, HUDSON, NEW HAMPSHIRE. ALL DRAINAGE PIPES SHOWN SHALL BE HDPE. CATCH BASINS SHALL BE TYPE B, AND HAVE 3' SUMPS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 811 AT LEAST 72 HOURS BEFORE DIGGING.
- ALL DRAINAGE PIPE SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL LOT DEVELOPMENT SHOWN ON THIS PLAN INCLUDING BUT NOT LIMITED TO DRIVEWAYS, BUILDING LOCATIONS, AND GRADING ARE SHOWN FOR PROOF OF CONCEPT ONLY. FINAL LOT LAYOUT SHALL BE COORDINATED WITH THE OWNER, THE ENGINEER OF RECORD, AND TOWN STAFF FOR FINAL APPROVAL PRIOR TO CONSTRUCTION.

LEGEND

□ GB-F	GRANITE BOUND FOUND
● IPIN-F	IRON PIN FOUND
● DH-F	DRILL HOLE FOUND
● IPP-F	IRON PIPE FOUND
▲ RRS-F	RAILROAD SPIKE FOUND
○ U	UTILITY POLE
+	SIGN
⊙	LIGHT
⊙	WELL
⊙	SEWER MANHOLE
⊙	DRAINAGE MANHOLE
⊙	CATCH BASIN
⊙	ABUTTER LINE
---	PROPERTY LINE
---	STREAM
---	WETLAND
OHU	OVERHEAD UTILITIES
---	DRAINAGE LINE
---	TREELINE
---	10' CONTOUR
---	2' CONTOUR
---	STONEWALL
---	BUILDING SETBACK
---	EASEMENT
---	PROPOSED WATER VALVE
---	PROPOSED HYDRANT
---	PROPOSED WELL
---	PROPOSED DRAINAGE MANHOLE
---	PROPOSED CATCH BASIN
---	PROPOSED PROPERTY LINE
---	PROPOSED GUARDRAIL
---	PROPOSED UNDERGROUND UTILITIES
---	PROPOSED GAS LINE
---	PROPOSED WATER LINE
---	PROPOSED DRAINAGE LINE
---	PROPOSED TREELINE
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED SLOPED GRANITE CURB
---	PROPOSED 2' CONTOUR



ROADWAY PLAN & PROFILES

BARRETT HILL SUBDIVISION

MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER/APPLICANT:
BARRETT HILL, LLC
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REVISIONS

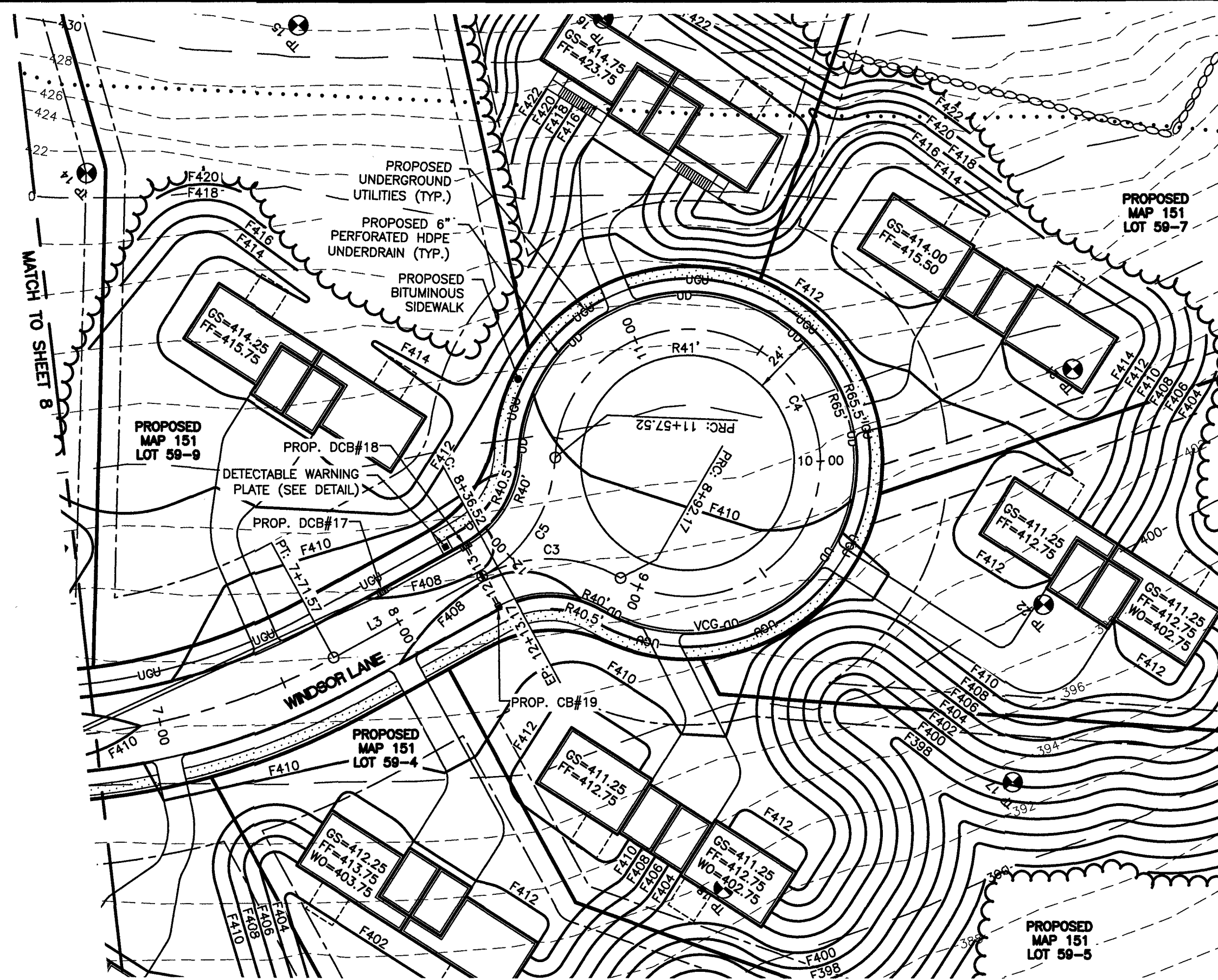
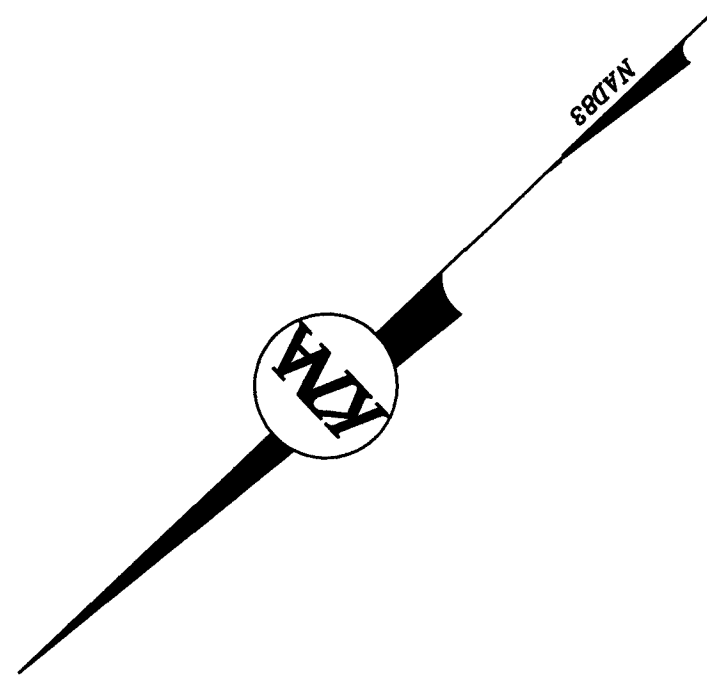
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DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
PROJECT No: 23-0414-1 SHEET: 8 OF 24

PAUL CHISHOLM
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
No. 15076

LOAM & SEED ALL
DISTURBED AREAS (TYP.)

SEE SHEET 8 FOR
LINE AND CURVE TABLE

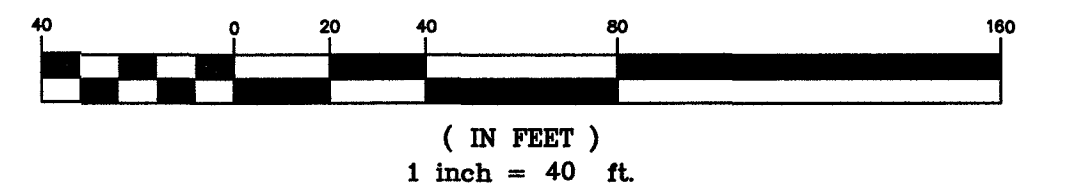


ROADWAY PLAN
SCALE: 1" = 40'

LEGEND

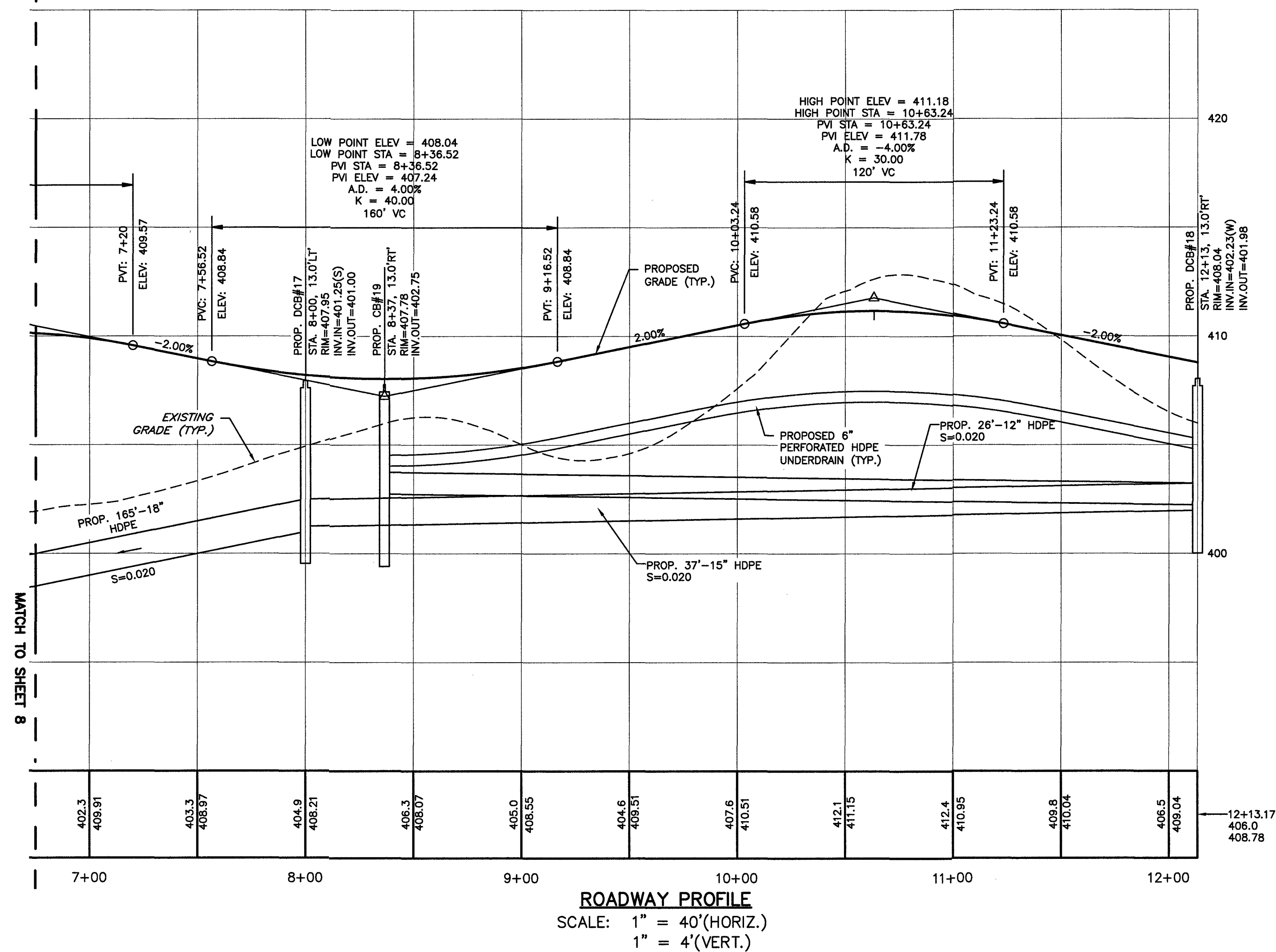
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- ⊙ UTILITY POLE
- ⊙ SIGN
- ⊙ LIGHT
- ⊙ WELL
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- ⊙ OHU OVERHEAD UTILITIES
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- ⊙ TREELINE
- ⊙ 10' CONTOUR
- ⊙ 2' CONTOUR
- ⊙ STONEWALL
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- ⊙ EASEMENT
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- ⊙ PROPOSED WELL
- ⊙ PROPOSED CATCH BASIN
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- ⊙ PROPOSED TREELINE
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- ⊙ PROPOSED SLOPED GRANITE CURB
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GRAPHIC SCALE



NPDES NOTE

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ROADWAY PROFILE
SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)

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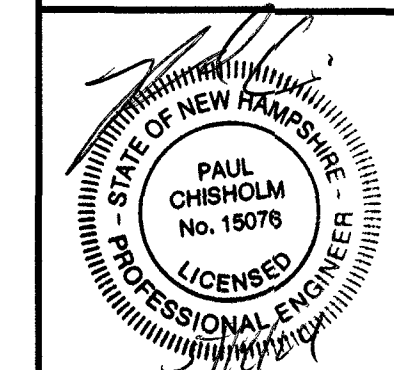
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ROADWAY PLAN & PROFILES
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MAP 151 LOT 59
75 BARRETT'S HILL ROAD
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KMA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 827-2881



REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

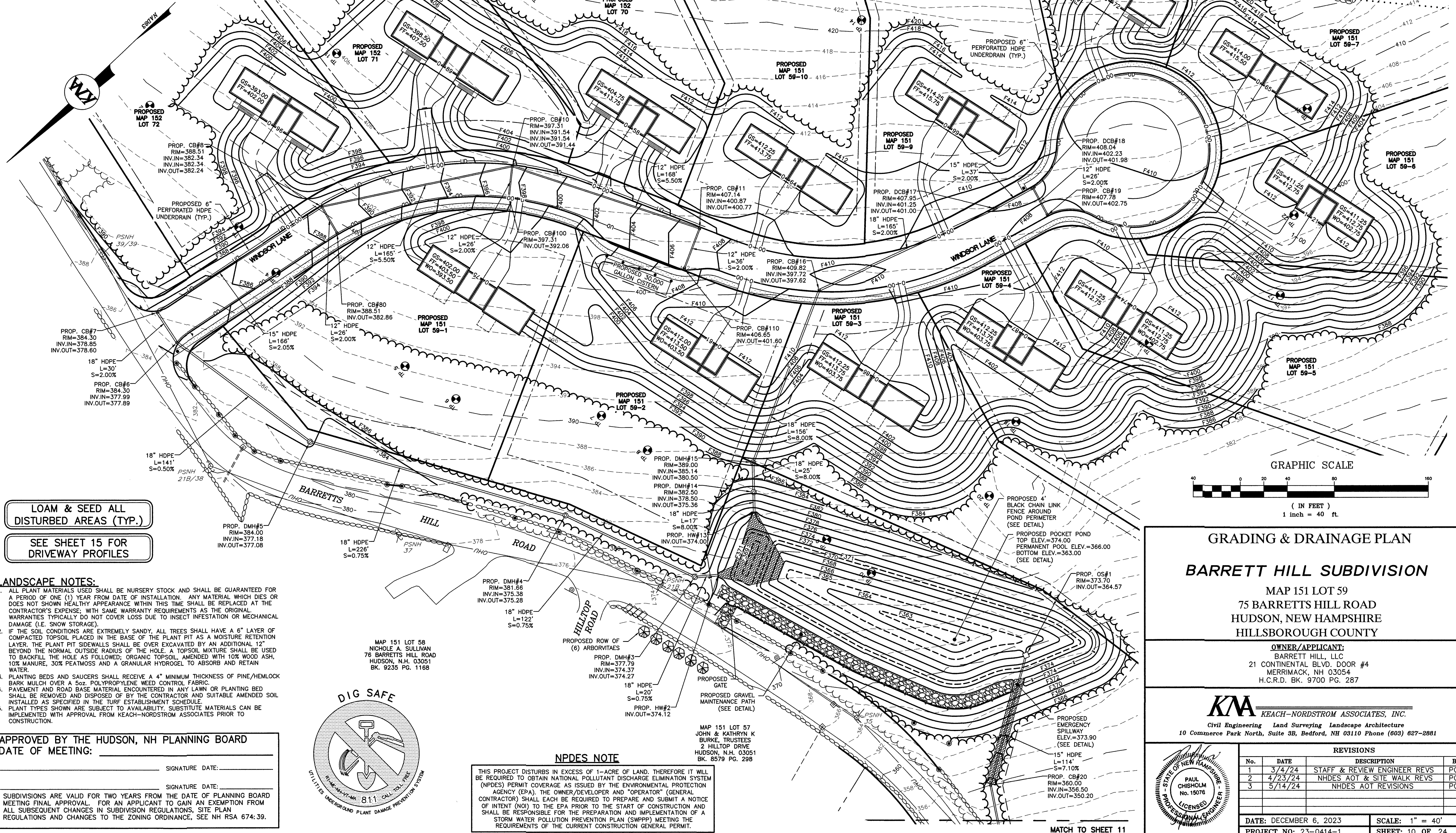
DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
PROJECT NO: 23-0414-1 SHEET: 9 OF 24

CONSTRUCTION NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED ROADWAY DESIGN, GRADING, AND UTILITIES FOR THIS SITE.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF HUDSON, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK PERFORMED IN THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, APPROVED AND ADOPTED 2016 ARE HEREBY INCORPORATED BY REFERENCE.
3. CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS FOR ROAD CONSTRUCTION, PUBLIC WORKS DEPARTMENT, HUDSON, NEW HAMPSHIRE. ALL DRAINAGE PIPES SHOWN SHALL BE HDPE. CATCH BASINS SHALL BE TYPE B, AND HAVE 3' SUMPS UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 811 AT LEAST 72 HOURS BEFORE DIGGING.
5. ALL DRAINAGE PIPE SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. ALL LOT DEVELOPMENT SHOWN ON THIS PLAN INCLUDING BUT NOT LIMITED TO DRIVEWAYS, BUILDING LOCATIONS, AND GRADING ARE SHOWN FOR PROOF OF CONCEPT ONLY. FINAL LOT LAYOUT SHALL BE COORDINATED WITH THE OWNER, THE ENGINEER OF RECORD, AND TOWN STAFF FOR FINAL APPROVAL PRIOR TO CONSTRUCTION.

PLANT LIST

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	MATURE HEIGHT
GT	6	THUJAS OCCIDENTALIS 'ELEGANTISSIMA'	GOLD TIPPED ARBORVITAE	3-4' B&B	15-20'



LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 15 FOR DRIVEWAY PROFILES

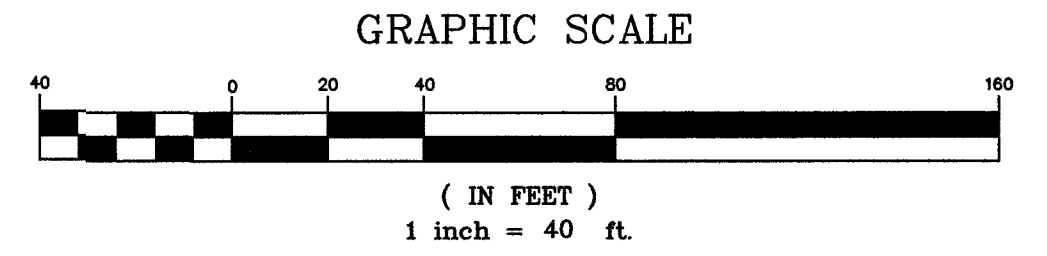
LANDSCAPE NOTES:

1. ALL PLANT MATERIALS USED SHALL BE NURSERY STOCK AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF INSTALLATION. ANY MATERIAL WHICH DIES OR DOES NOT SHOWN HEALTHY APPEARANCE WITHIN THIS TIME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, WITH SAME WARRANTY REQUIREMENTS AS THE ORIGINAL WARRANTIES TYPICALLY DO NOT COVER LOSS DUE TO INSECT INFESTATION OR MECHANICAL DAMAGE (I.E. SNOW STORAGE).
2. IF THE SOIL CONDITIONS ARE EXTREMELY SANDY, ALL TREES SHALL HAVE A 6" LAYER OF COMPACTED TOPSOIL PLACED IN THE BASE OF THE PLANT PIT AS A MOISTURE RETENTION LAYER. THE PLANT PIT SIDEWALLS SHALL BE OVER EXCAVATED BY AN ADDITIONAL 12" BEYOND THE NORMAL OUTSIDE RADIUS OF THE HOLE. A TOPSOIL MIXTURE SHALL BE USED TO BACKFILL THE HOLE AS FOLLOWS: ORGANIC TOPSOIL, AMENDED WITH 10% WOOD ASH, 10% MANURE, 30% PEATMOSS AND A GRANULAR HYDROGEL TO ABSORB AND RETAIN WATER.
3. PLANTING BEDS AND SAUCERS SHALL RECEIVE A 4" MINIMUM THICKNESS OF PINE/HEMLOCK BARK MULCH OVER A 5oz. POLYPROPYLENE WEED CONTROL FABRIC.
4. PAVEMENT AND ROAD BASE MATERIAL ENCOUNTERED IN ANY LAWN OR PLANTING BED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SUITABLE AMENDED SOIL INSTALLED AS SPECIFIED IN THE TURF ESTABLISHMENT SCHEDULE.
5. PLANT TYPES SHOWN ARE SUBJECT TO AVAILABILITY. SUBSTITUTE MATERIALS CAN BE IMPLEMENTED WITH APPROVAL FROM KEACH-NORDSTROM ASSOCIATES PRIOR TO CONSTRUCTION.



NPDES NOTE

THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.



GRADING & DRAINAGE PLAN

BARRETT HILL SUBDIVISION

MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

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3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
PROJECT NO: 23-0414-1 SHEET: 10 OF 24

APPROVED BY THE HUDSON, NH PLANNING BOARD

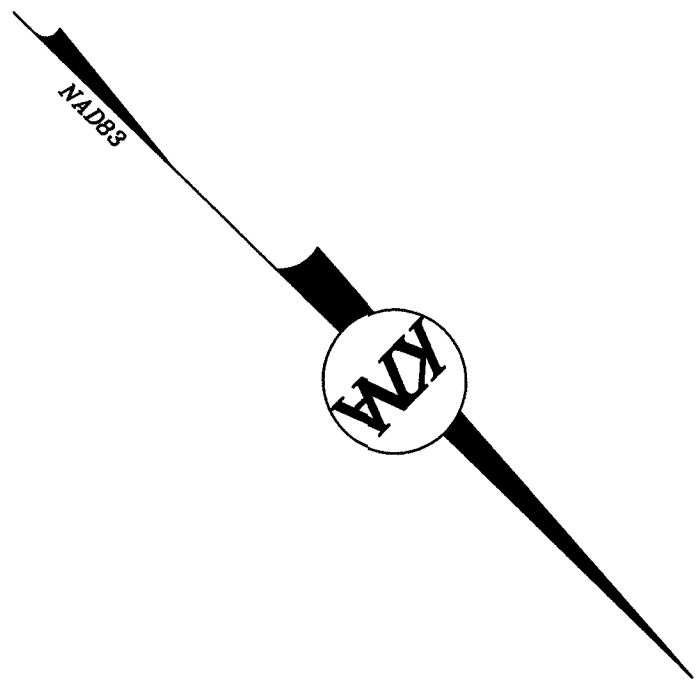
DATE OF MEETING: _____

SIGNATURE DATE: _____

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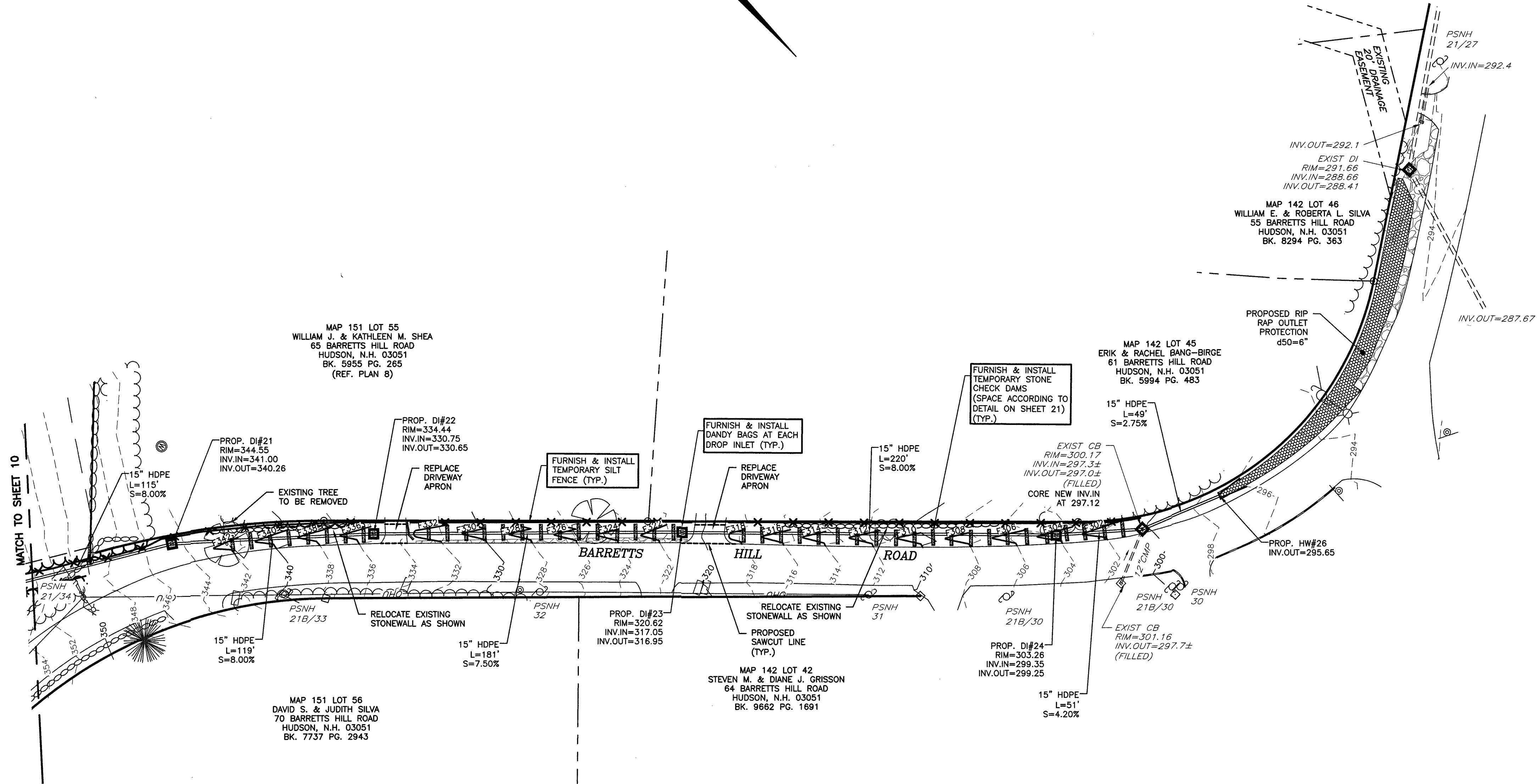
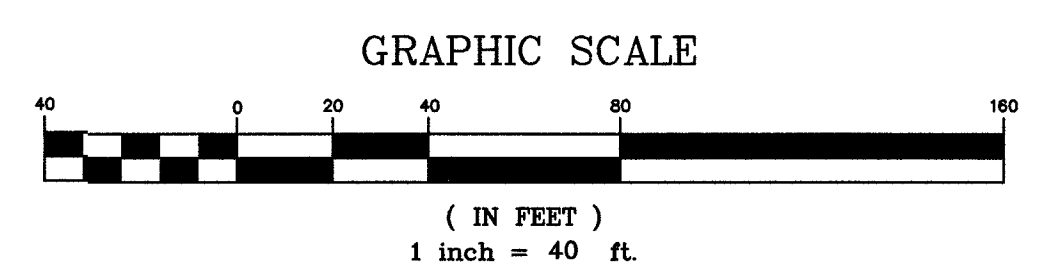
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

MATCH TO SHEET 11



LEGEND

- GB-F GRANITE BOUND FOUND
- IPIN-F IRON PIN FOUND
- ⊙ DH-F DRILL HOLE FOUND
- IPP-F IRON PIPE FOUND
- △ RRS-F RAILROAD SPIKE FOUND
- ⊕ UTILITY POLE
- ⊙ SIGN
- ⊙ LIGHT
- ⊙ WELL
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- ⊙ DRAINAGE MANHOLE
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- ⊙ ABUTTER LINE
- ⊙ PROPERTY LINE
- STREAM
- WETLAND
- OHU OVERHEAD UTILITIES
- DRAINAGE LINE
- TREELINE
- 10' CONTOUR
- 2' CONTOUR
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- ⊙ PROPOSED WATER VALVE
- ⊙ PROPOSED HYDRANT
- ⊙ PROPOSED WELL
- ⊙ PROPOSED DRAINAGE MANHOLE
- ⊙ PROPOSED CATCH BASIN
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- ⊙ UGU PROPOSED UNDERGROUND UTILITIES
- ⊙ PROPOSED GAS LINE
- ⊙ PROPOSED WATER LINE
- ⊙ PROPOSED DRAINAGE LINE
- ⊙ PROPOSED TREELINE
- ⊙ PROPOSED EDGE OF PAVEMENT
- ⊙ PROPOSED SLOPED GRANITE CURB
- ⊙ PROPOSED 2' CONTOUR
- ⊙ PROPOSED ARBORVITAE



OFFSITE GRADING, DRAINAGE & EROSION CONTROL PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
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NPDES NOTE

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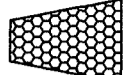
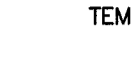
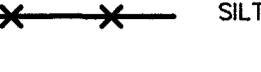




LOAM & SEED ALL
 DISTURBED AREAS (TYP.)

SEE SHEET 10 FOR NOTES

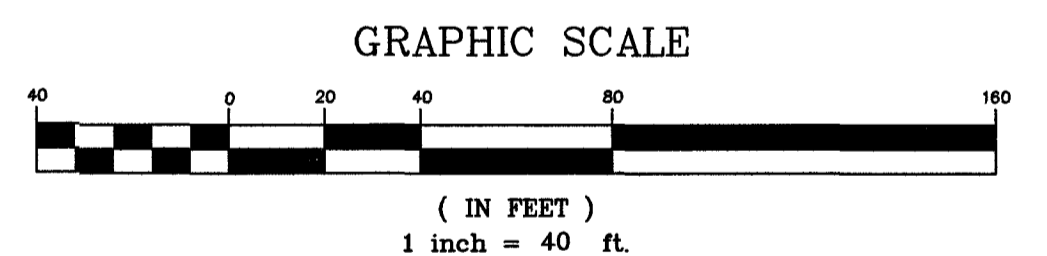
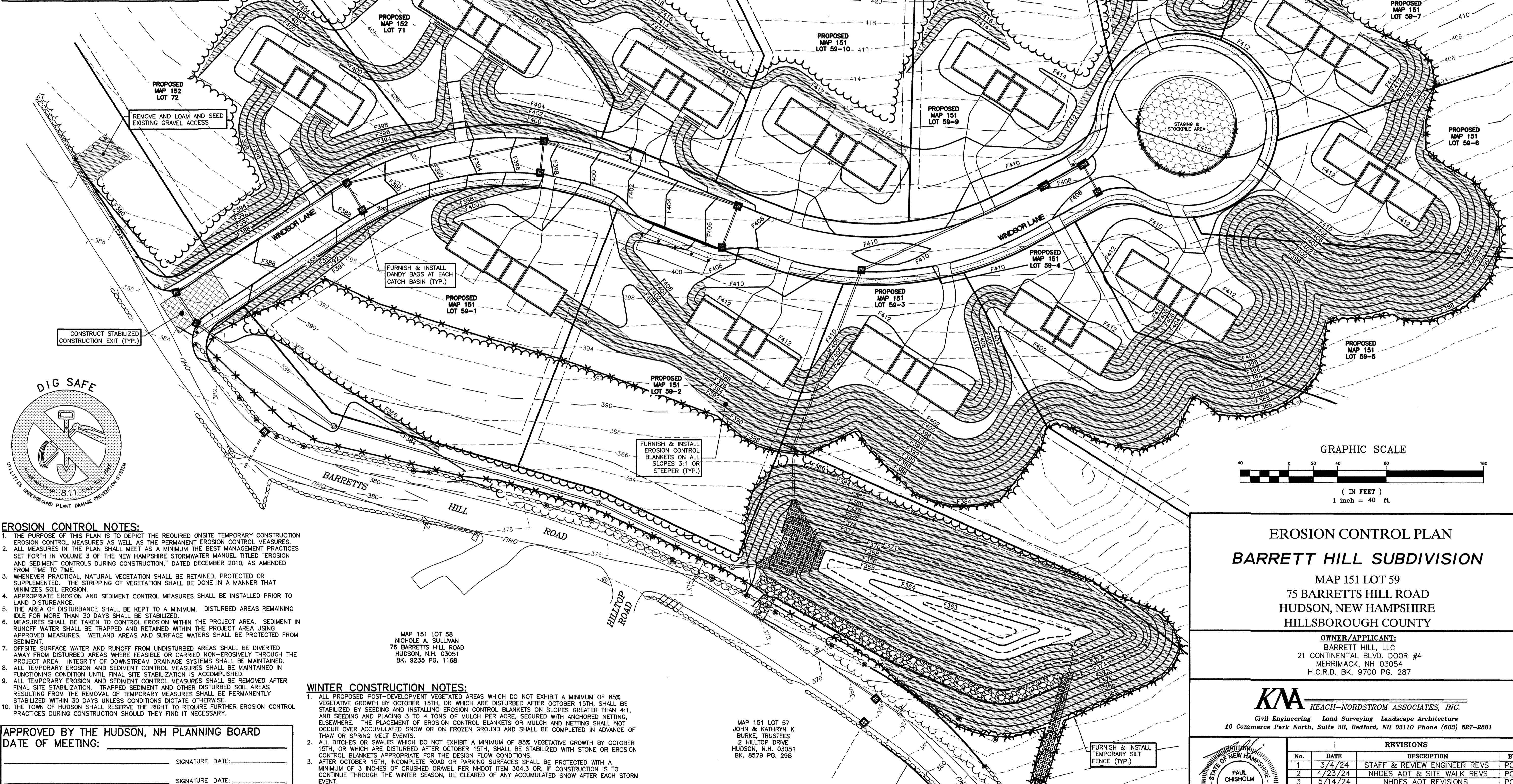
SEE SHEET 12 FOR EROSION
 CONTROL NOTES & LEGEND

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EROSION & SEDIMENT CONTROL LEGEND

-  PERMANENT OUTLET PROTECTION APRON (RIP RAP)
-  TEMPORARY DANDY BAG
-  SILT FENCE
-  LIMITS OF CLEARING
-  STABILIZED CONSTRUCTION EXIT
-  STAGING AND STOCKPILE AREA
-  EROSION CONTROL BLANKETS

NPDES NOTE
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- EROSION CONTROL NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE REQUIRED ONSITE TEMPORARY CONSTRUCTION EROSION CONTROL MEASURES AS WELL AS THE PERMANENT EROSION CONTROL MEASURES.
 2. ALL MEASURES IN THE PLAN SHALL MEET AS A MINIMUM THE BEST MANAGEMENT PRACTICES SET FORTH IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL TITLED "EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION," DATED DECEMBER 2010, AS AMENDED FROM TIME TO TIME.
 3. WHENEVER PRACTICAL, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED OR SUPPLEMENTED. THE STRIPPING OF VEGETATION SHALL BE DONE IN A MANNER THAT MINIMIZES SOIL EROSION.
 4. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
 5. THE AREA OF DISTURBANCE SHALL BE KEPT TO A MINIMUM. DISTURBED AREAS REMAINING IDEAL FOR MORE THAN 30 DAYS SHALL BE STABILIZED.
 6. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA USING APPROVED MEASURES. WETLAND AREAS AND SURFACE WATERS SHALL BE PROTECTED FROM SEDIMENT.
 7. OFFSITE SURFACE WATER AND RUNOFF FROM UNDISTURBED AREAS SHALL BE DIVERTED AWAY FROM DISTURBED AREAS WHERE FEASIBLE OR CARRIED NON-EROSIVELY THROUGH THE PROJECT AREA. INTEGRITY OF DOWNSTREAM DRAINAGE SYSTEMS SHALL BE MAINTAINED.
 8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN FUNCTIONING CONDITION UNTIL FINAL SITE STABILIZATION IS ACCOMPLISHED.
 9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS UNLESS CONDITIONS DICTATE OTHERWISE.
 10. THE TOWN OF HUDSON SHALL RESERVE THE RIGHT TO REQUIRE FURTHER EROSION CONTROL PRACTICES DURING CONSTRUCTION SHOULD THEY FIND IT NECESSARY.

- WINTER CONSTRUCTION NOTES:**
1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
 2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
 3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3 OR, IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.
 4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED;
 - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
 - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

LOAM & SEED ALL DISTURBED AREAS (TYP.)

APPROVED BY THE HUDSON, NH PLANNING BOARD
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EROSION CONTROL PLAN
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

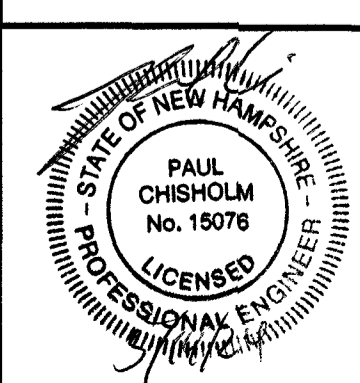
OWNER/APPLICANT:
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 MERRIMACK, NH 03054
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REVISIONS

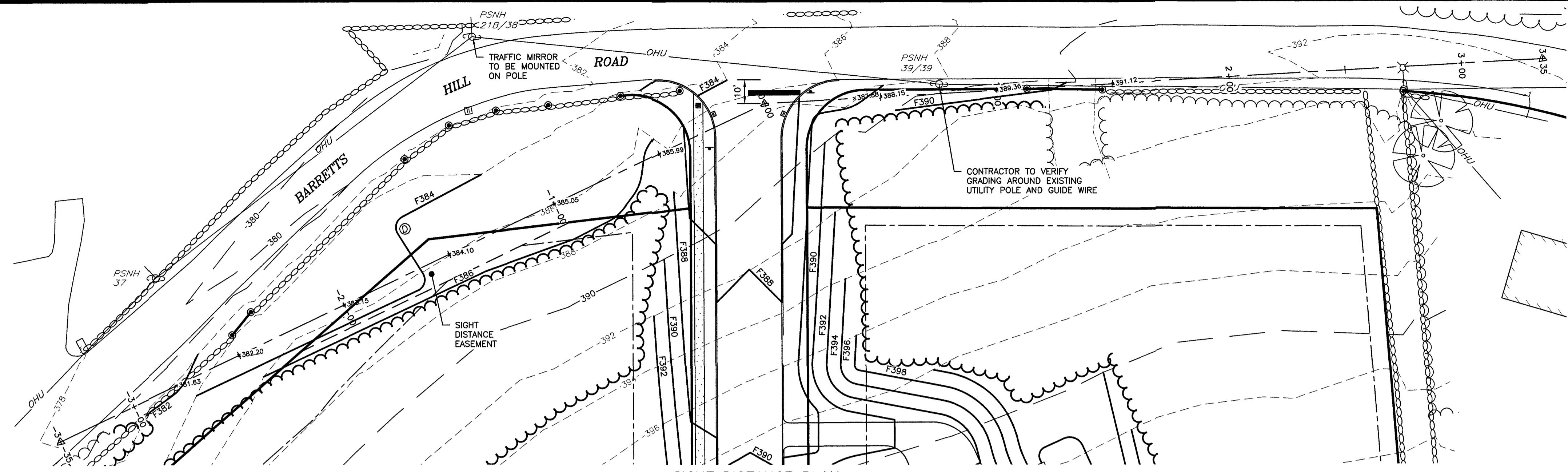
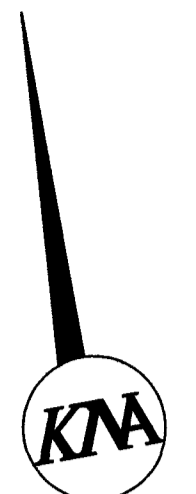
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DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
 PROJECT NO: 23-0414-1 SHEET: 12 OF 24



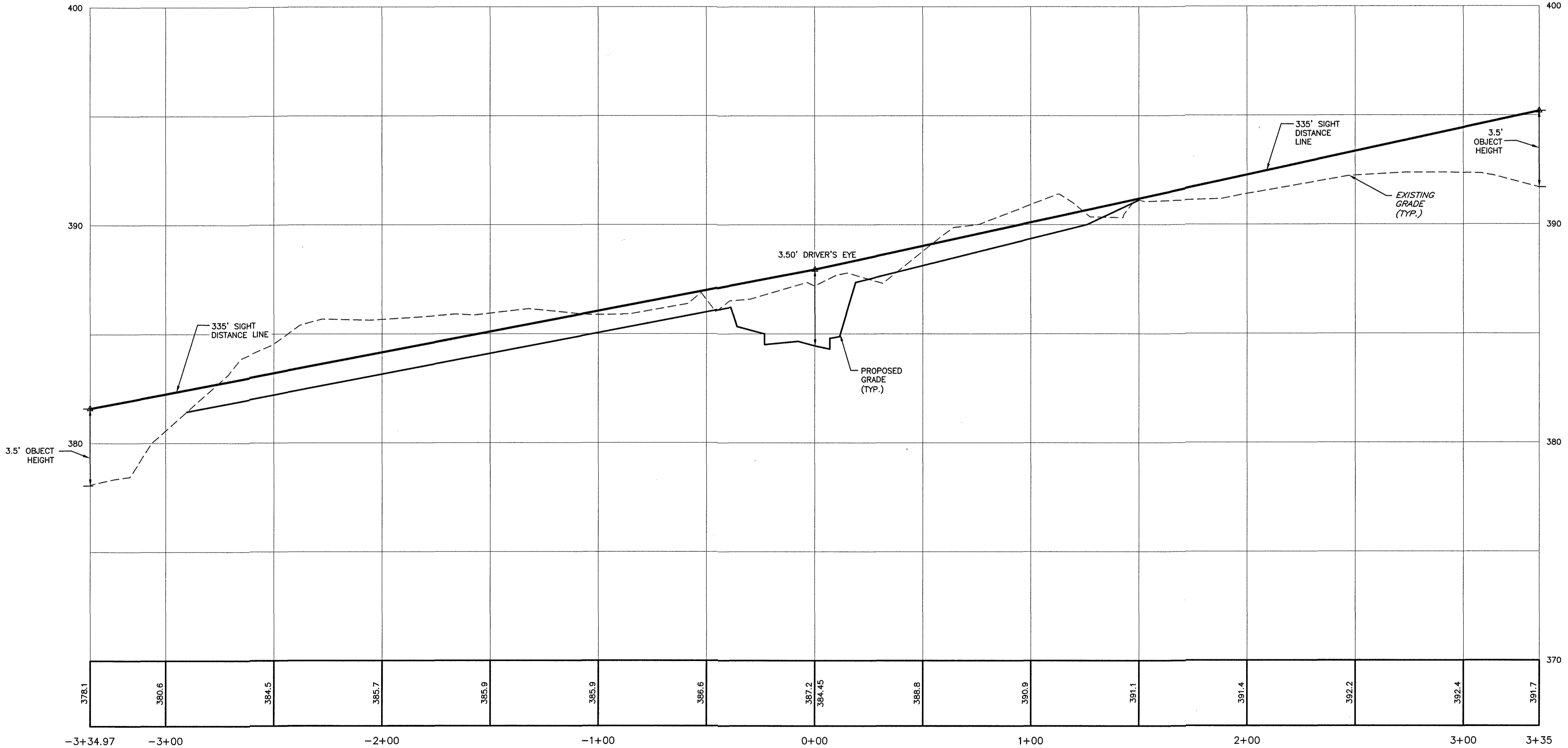
MAP 151 LOT 57
 JOHN & KATHRYN K
 BURKE, TRUSTEES
 2 HILLTOP DRIVE
 HUDSON, N.H. 03051
 BK. 8579 PG. 298

MAP 151 LOT 58
 NINOLE A SULLIVAN
 76 BARRETT'S HILL ROAD
 HUDSON, N.H. 03051
 BK. 9235 PG. 1168

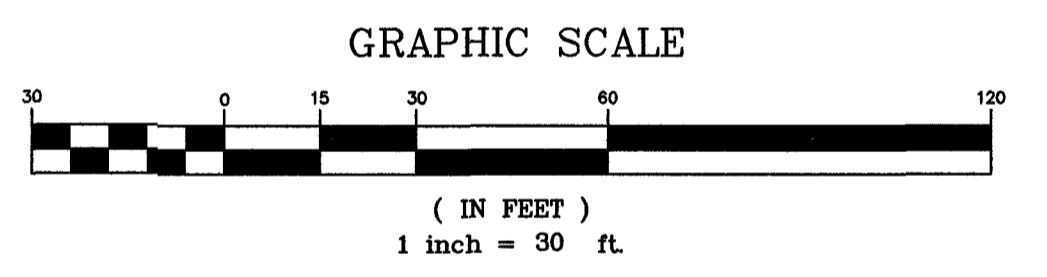


SIGHT DISTANCE PLAN
SCALE: 1" = 30'

- LEGEND**
- GB-F GRANITE BOUND FOUND
 - IPIN-F IRON PIN FOUND
 - ⊙ DH-F DRILL HOLE FOUND
 - ⊙ IPP-F IRON PIPE FOUND
 - △ RRS-F RAILROAD SPIKE FOUND
 - ⊙ UTILITY POLE
 - ⊙ SIGN
 - ⊙ LIGHT
 - ⊙ WELL
 - ⊙ SEWER MANHOLE
 - ⊙ DRAINAGE MANHOLE
 - ⊙ CATCH BASIN
 - ⊙ ABUTTER LINE
 - ⊙ PROPERTY LINE
 - ⊙ STREAM
 - ⊙ WETLAND
 - ⊙ OHU OVERHEAD UTILITIES
 - ⊙ DRAINAGE LINE
 - ⊙ TREELINE
 - ⊙ 10' CONTOUR
 - ⊙ 2' CONTOUR
 - ⊙ STONEWALL
 - ⊙ BUILDING SETBACK
 - ⊙ EASEMENT
 - ⊙ PROPOSED WATER VALVE
 - ⊙ PROPOSED HYDRANT
 - ⊙ PROPOSED WELL
 - ⊙ PROPOSED DRAINAGE MANHOLE
 - ⊙ PROPOSED CATCH BASIN
 - ⊙ PROPOSED PROPERTY LINE
 - ⊙ PROPOSED GUARDRAIL
 - ⊙ UGU PROPOSED UNDERGROUND UTILITIES
 - ⊙ G PROPOSED GAS LINE
 - ⊙ W PROPOSED WATER LINE
 - ⊙ PROPOSED DRAINAGE LINE
 - ⊙ PROPOSED TREELINE
 - ⊙ PROPOSED EDGE OF PAVEMENT
 - ⊙ PROPOSED SLOPED GRANITE CURB
 - ⊙ PROPOSED 2' CONTOUR



SIGHT DISTANCE PROFILE
SCALE: 1" = 30'(HORIZ.)
1" = 3'(VERT.)



SIGHT DISTANCE PLAN & PROFILE
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

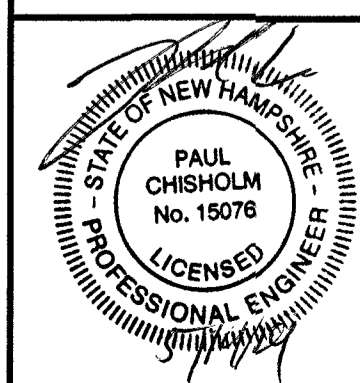
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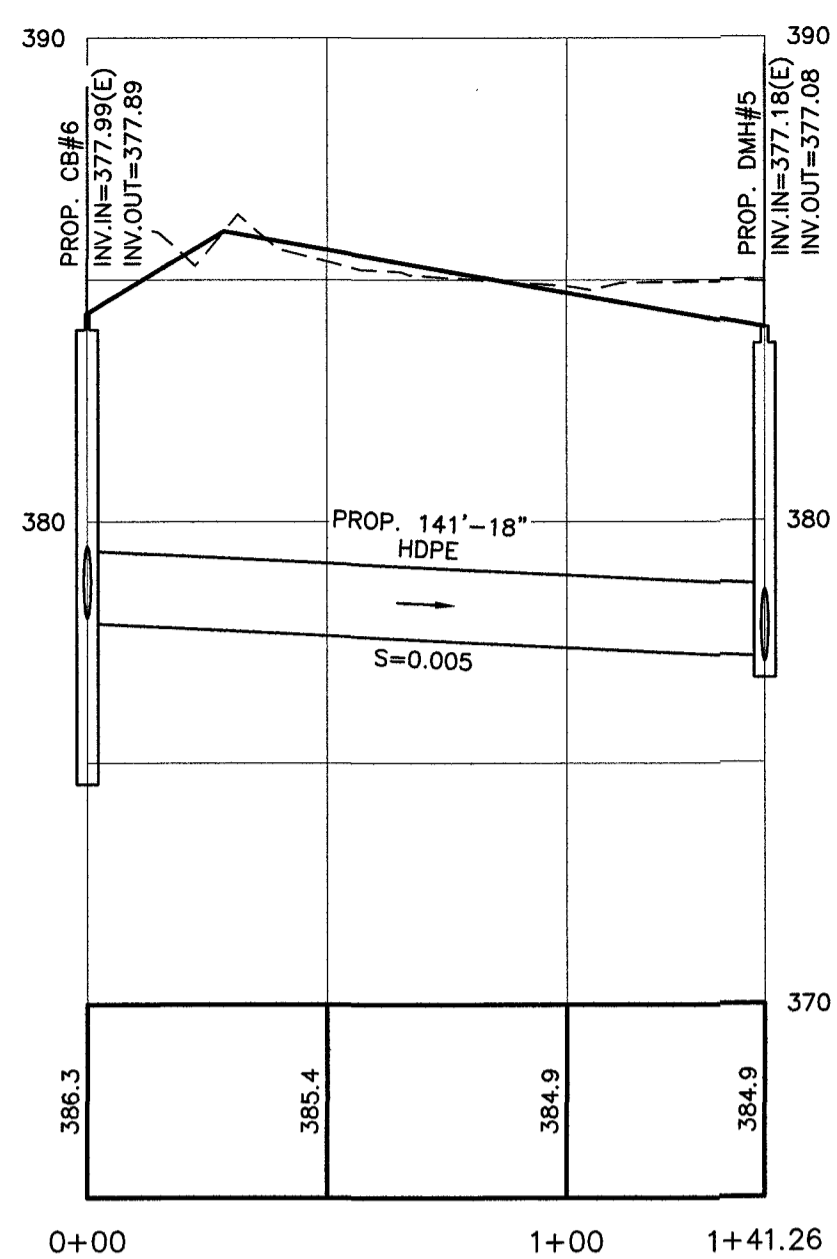
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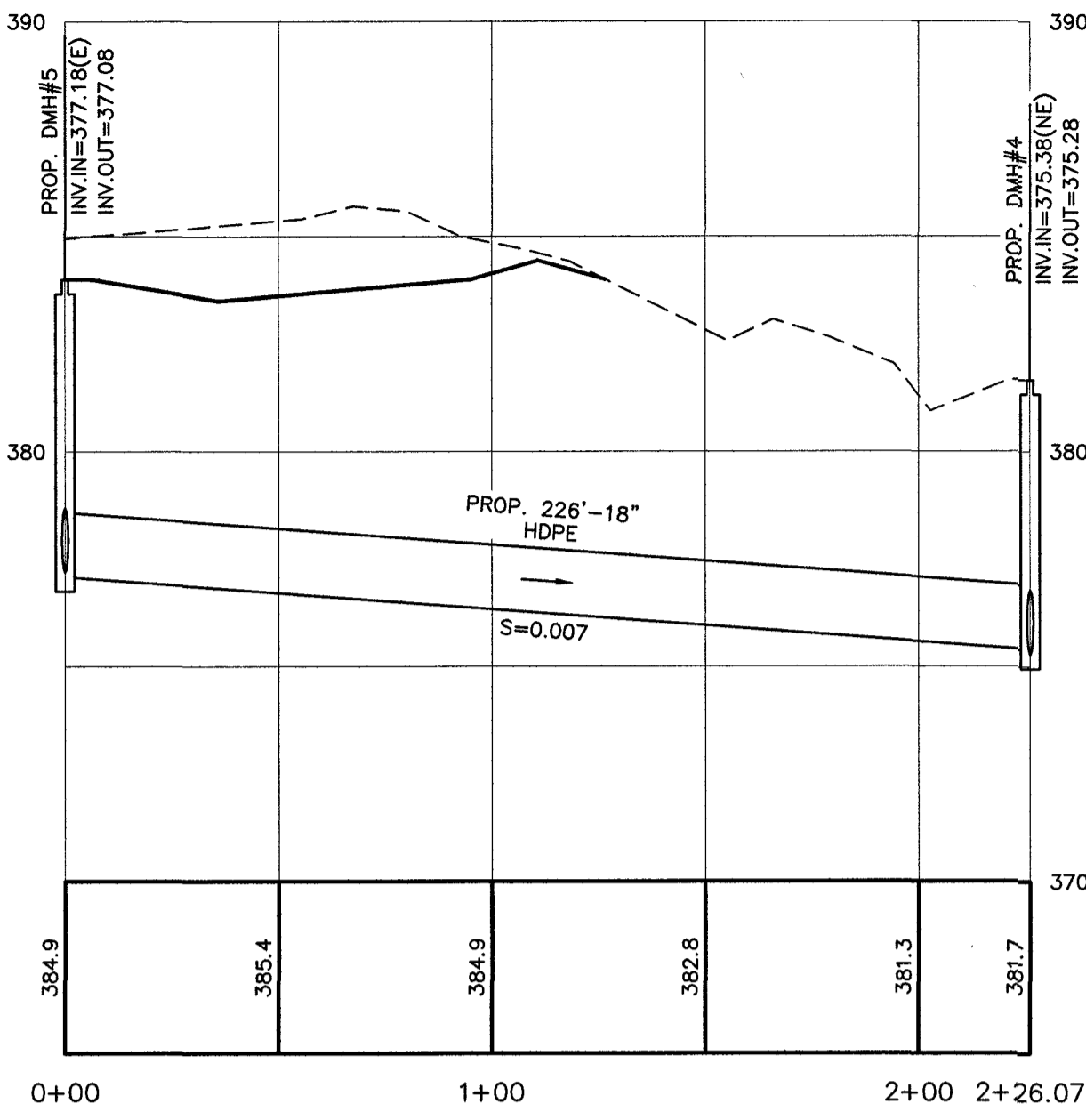


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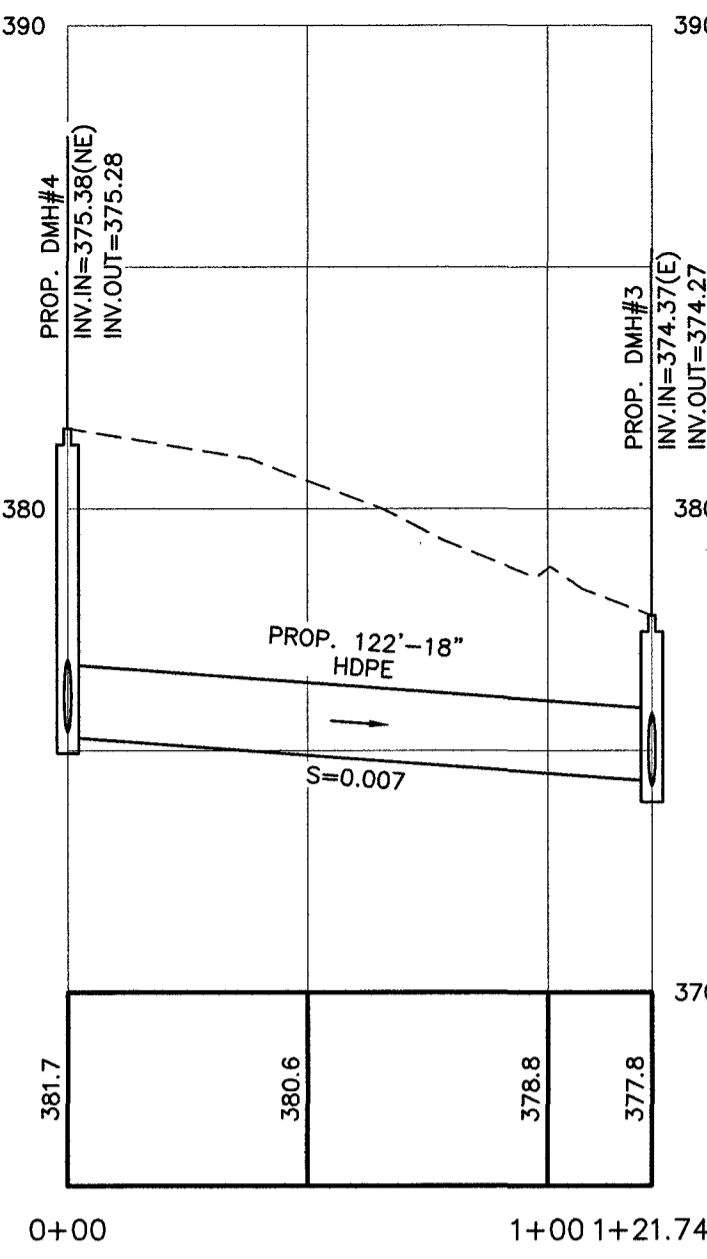
CB#6 TO DMH#5

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



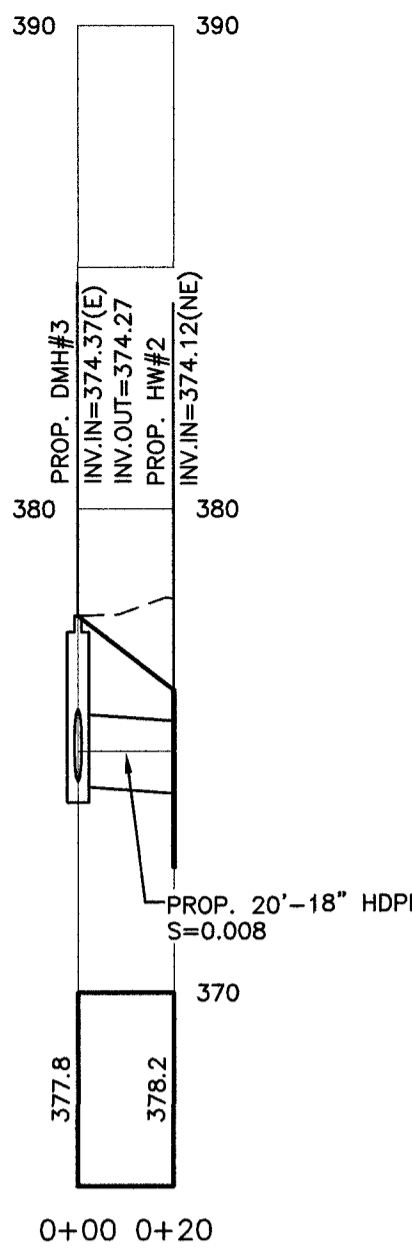
DMH#5 TO DMH#4

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



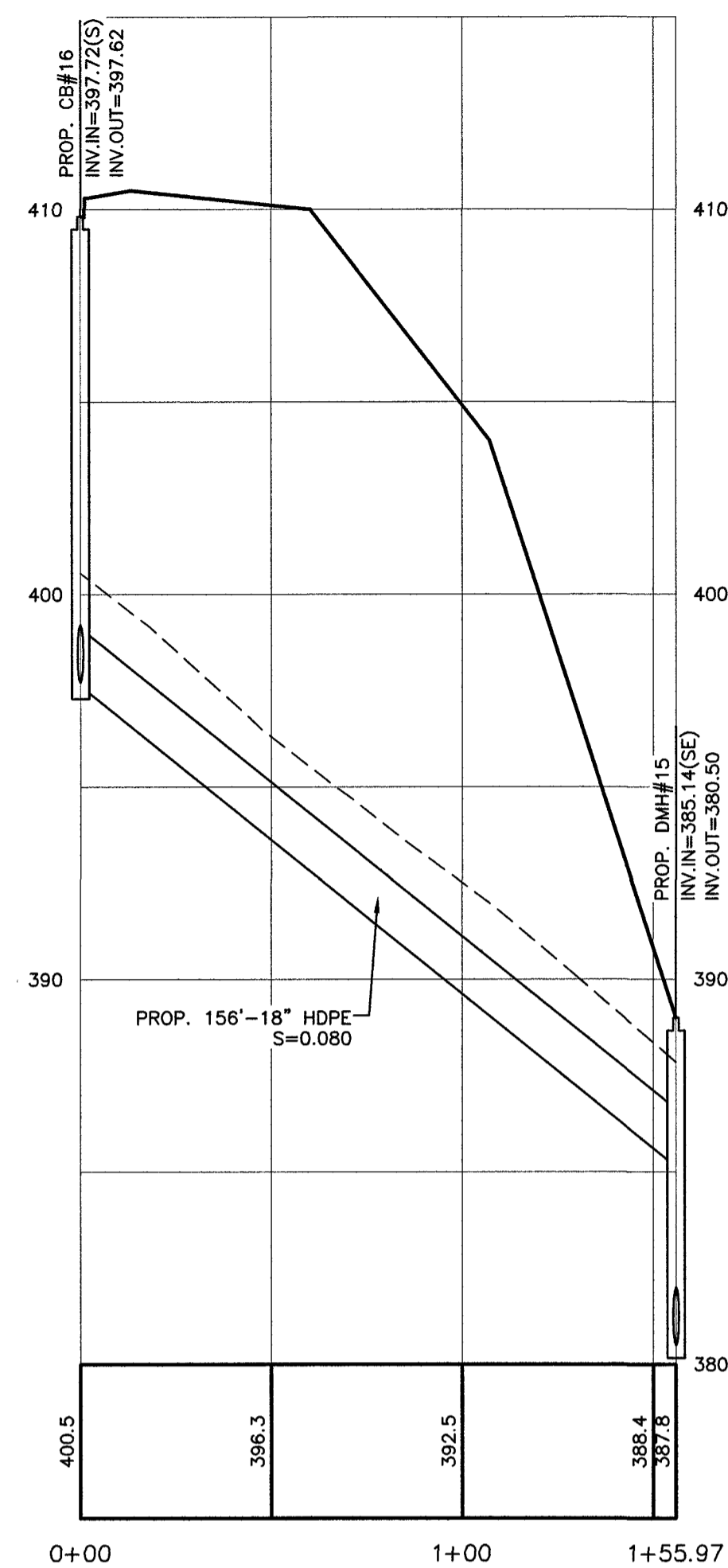
DMH#4 TO DMH#3

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



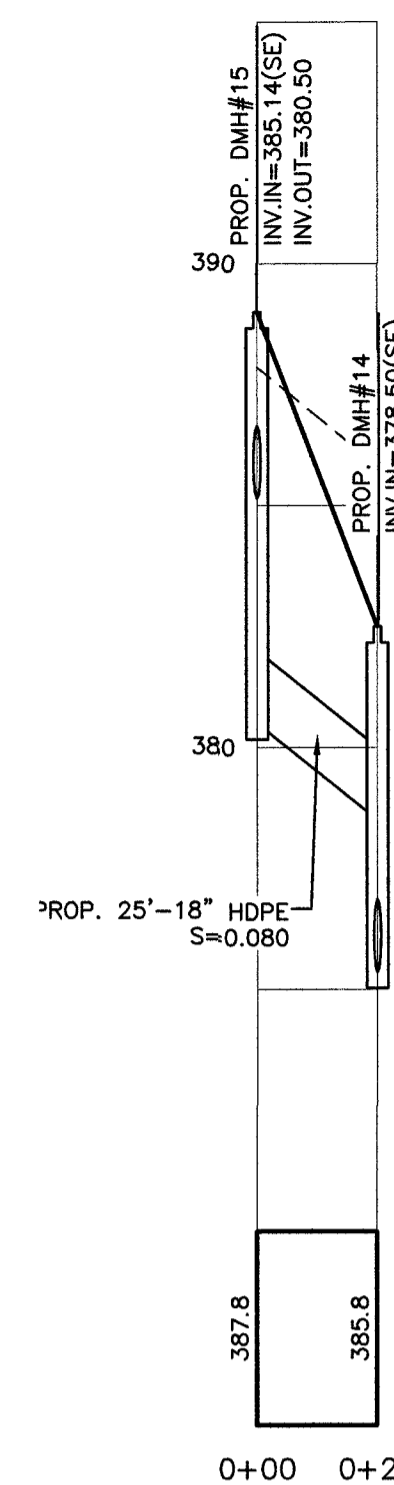
DMH#3 TO HW#2

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



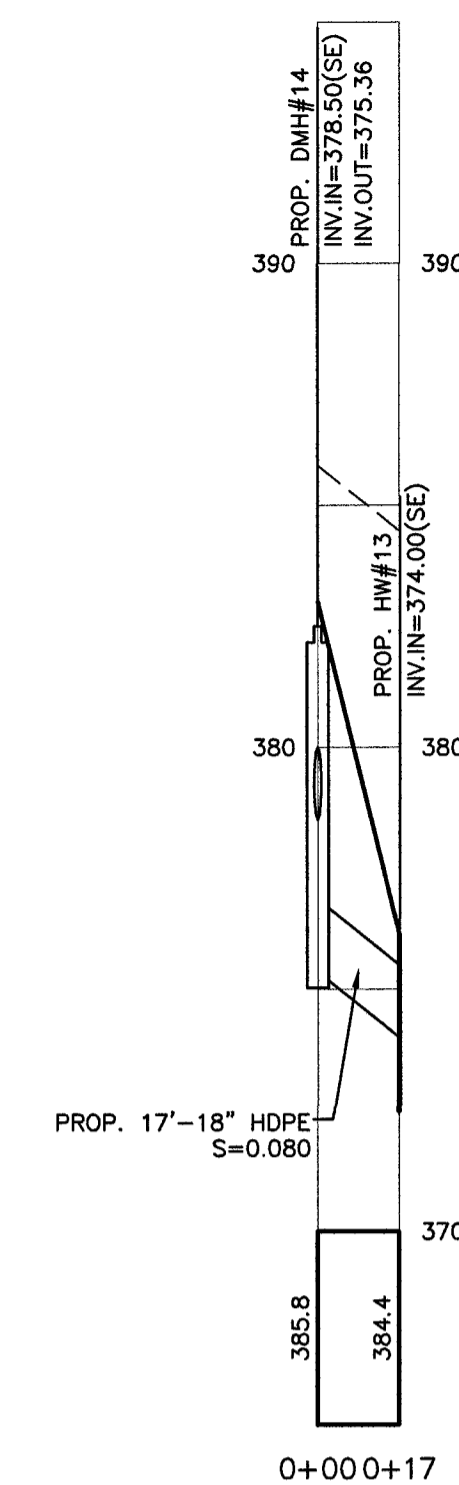
HW#16 TO HW#15

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



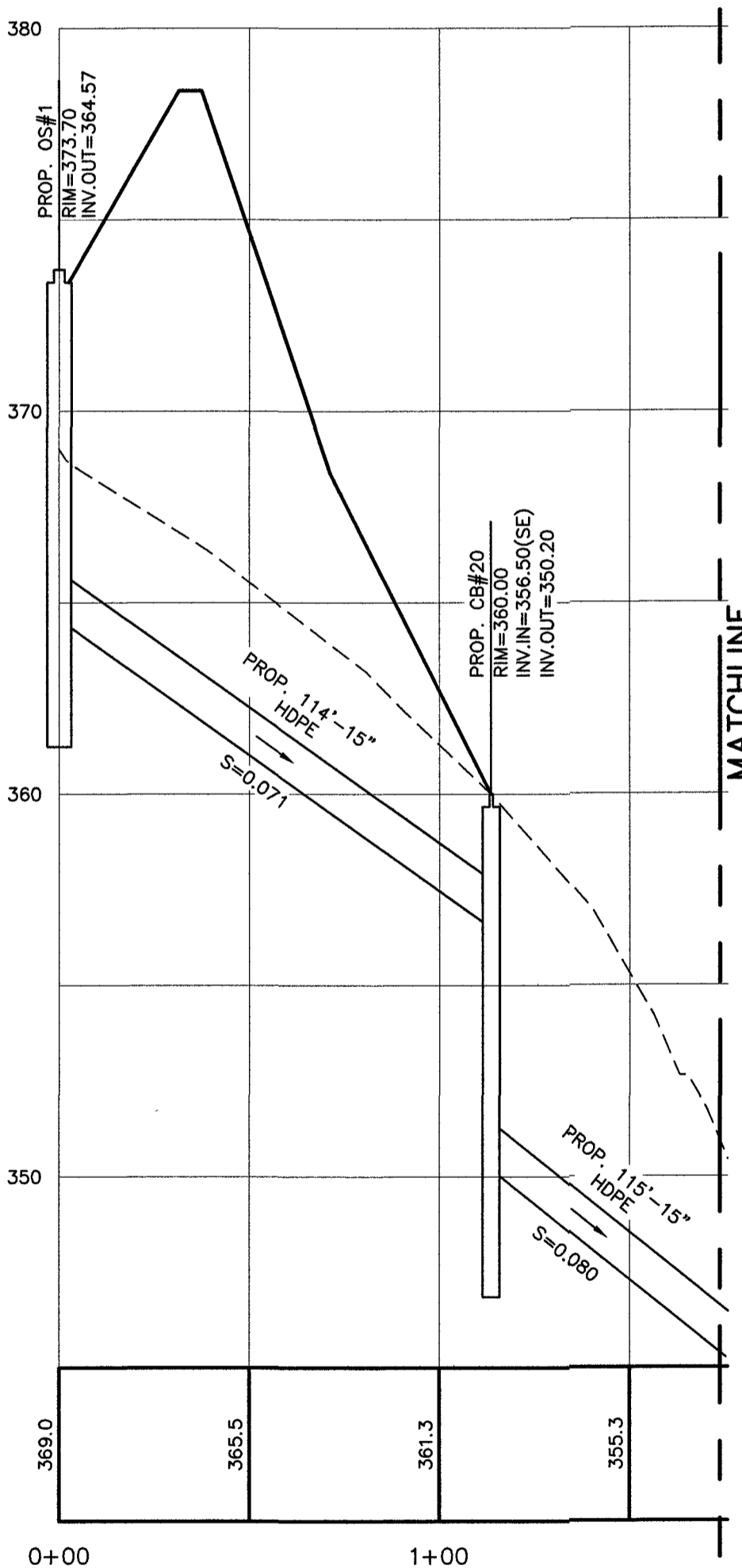
HW#15 TO HW#14

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



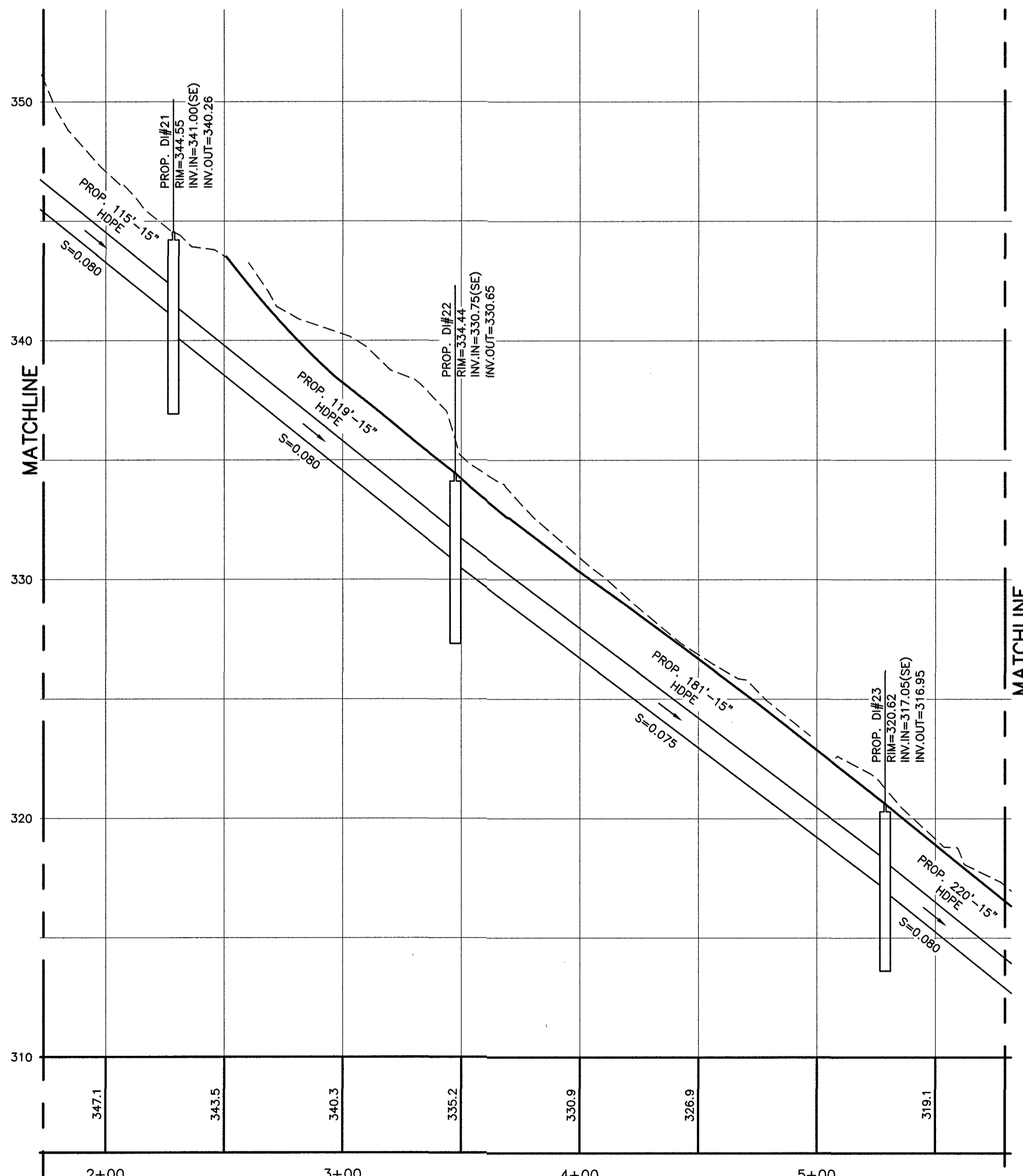
HW#14 TO HW#13

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



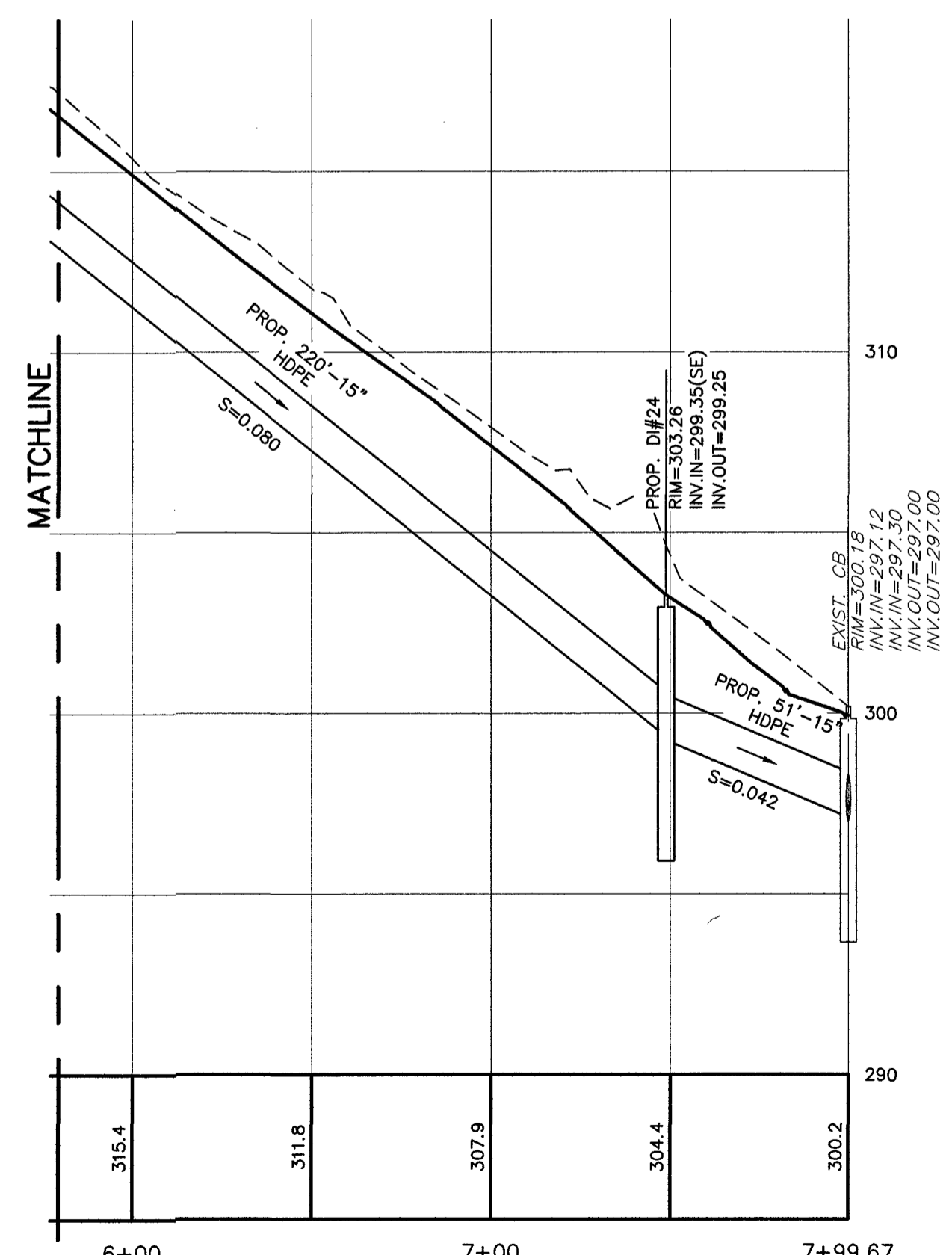
OS#1 TO EXIST. CB

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



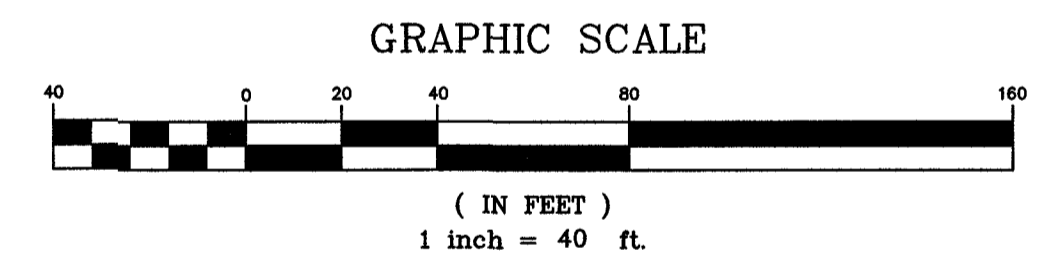
OS#1 TO EXIST. CB (CONTINUED)

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



OS#1 TO EXIST. CB (CONTINUED)

SCALE: 1" = 40'(HORIZ.)
1" = 4'(VERT.)



APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____
SIGNATURE: _____ DATE: _____
SIGNATURE: _____ DATE: _____
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

DRAINAGE PROFILES
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

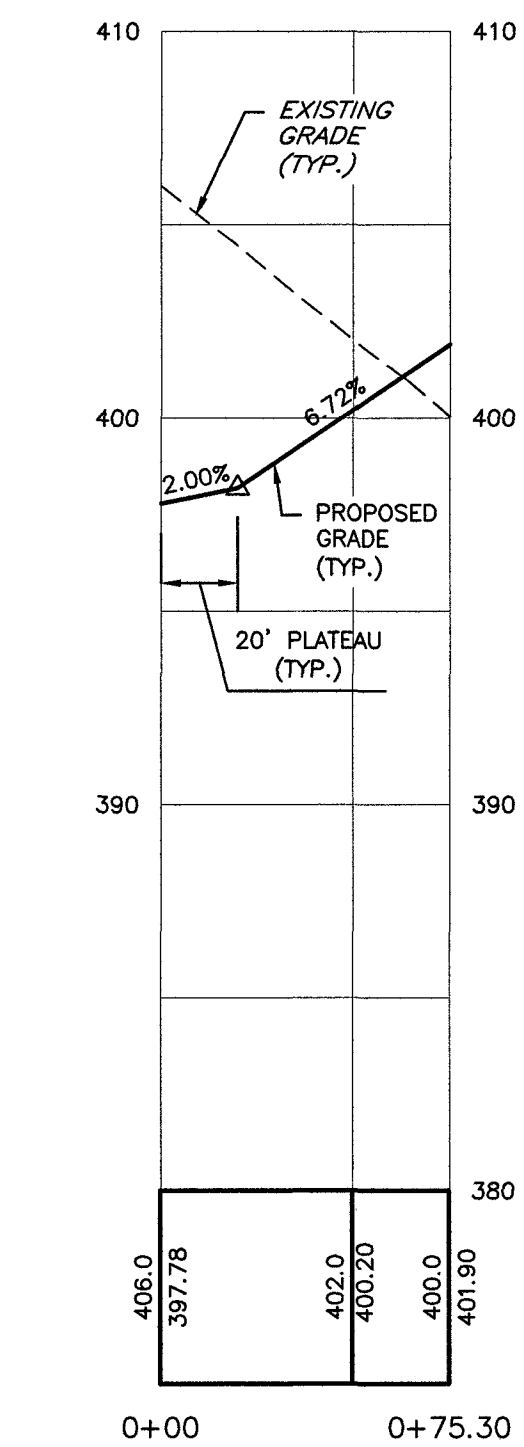
OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

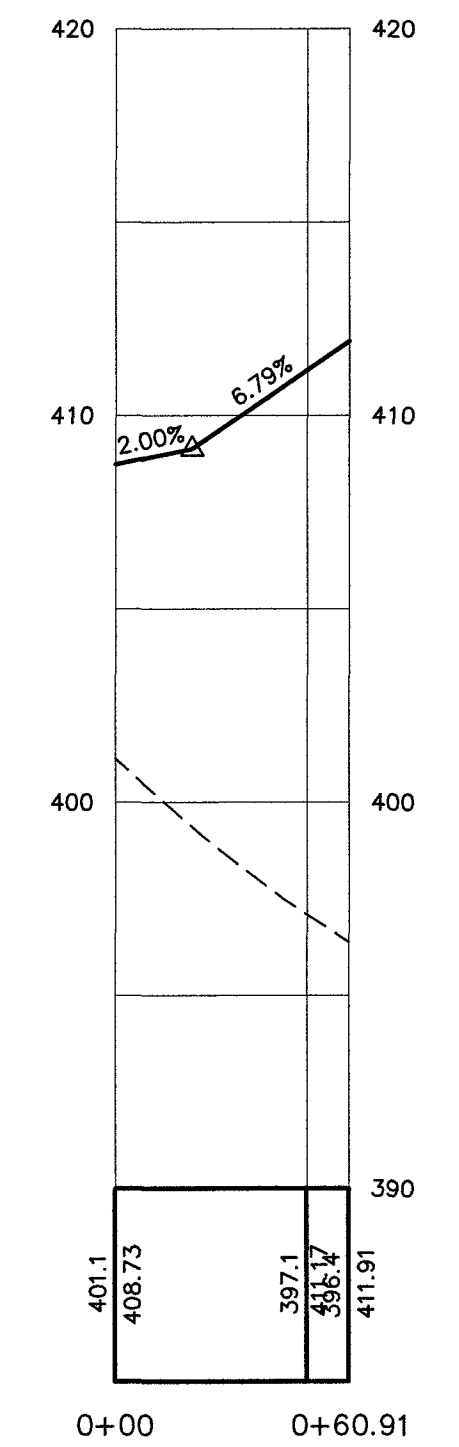
REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
PROJECT NO: 23-0414-1 SHEET: 14 OF 24

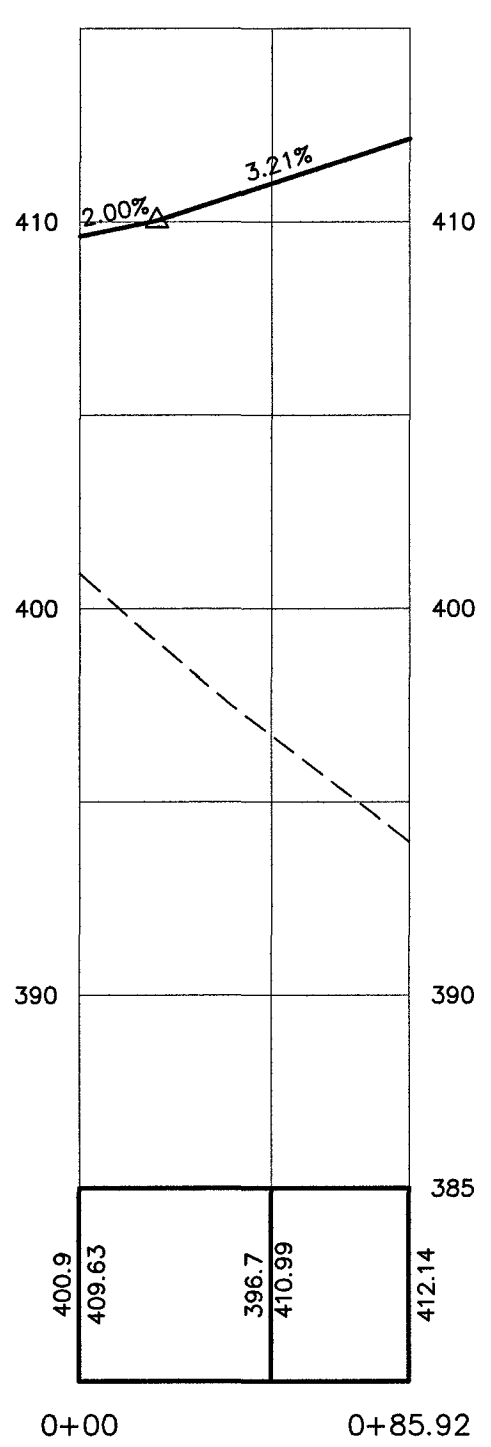
P:\proj\230414\dwg\Production\Drawings\230414-10\DWG\15.dwg, 5/14/2024 13:29:49 PM, V:\NA\2021\13749.PLA, V:\NA\2021\13749.PLA, 4/20/24



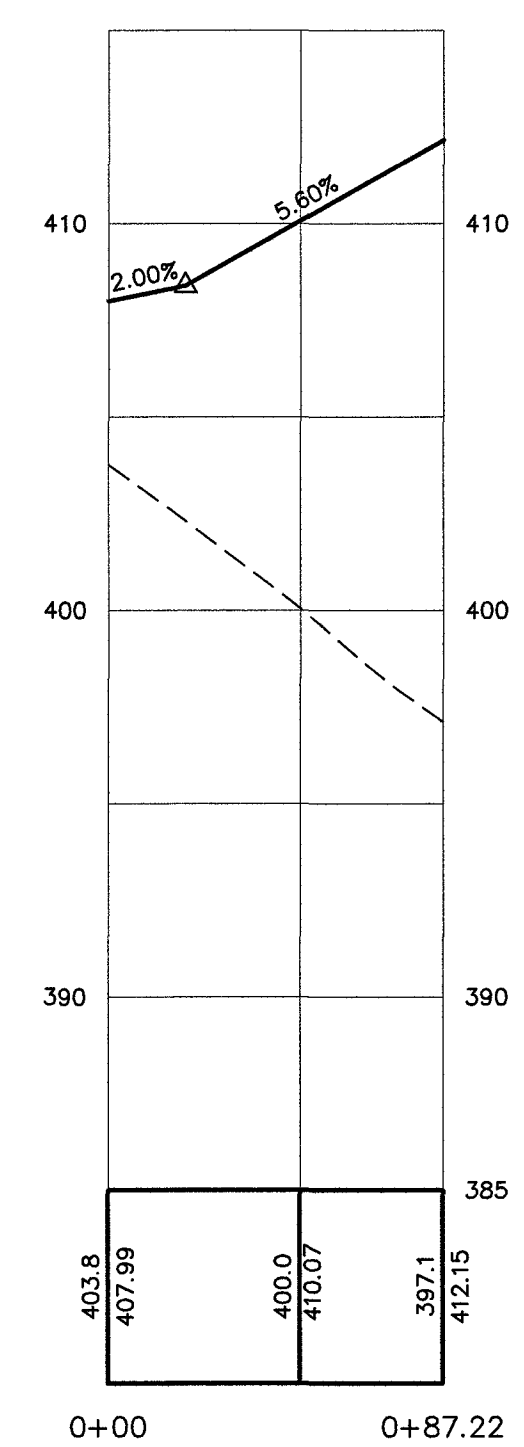
MAP 151 LOT 59-1 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



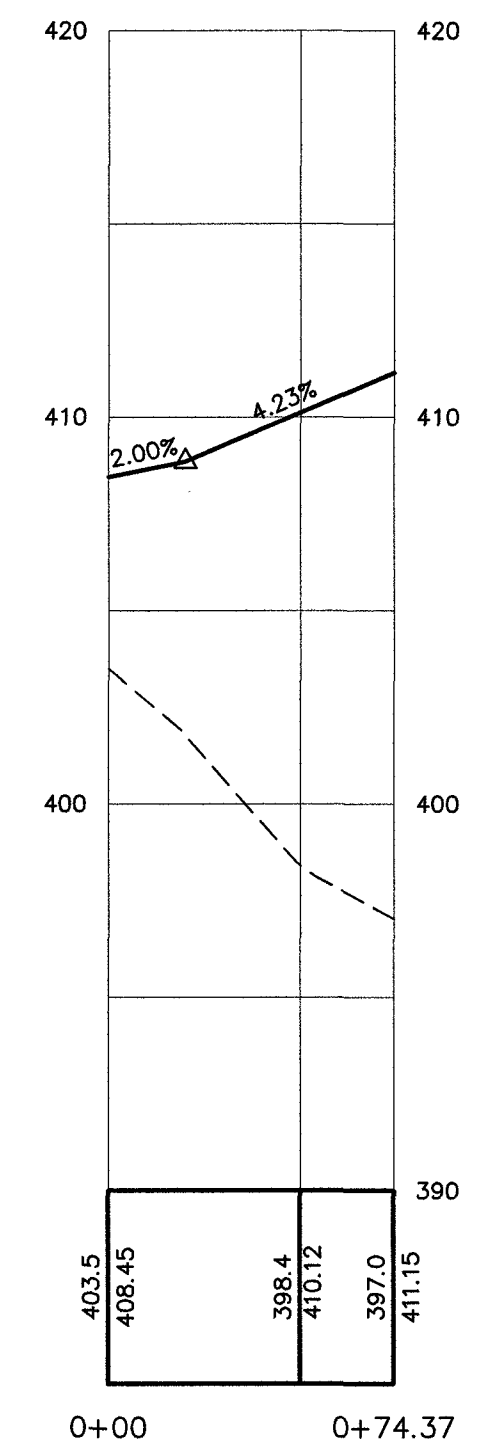
MAP 151 LOT 59-2 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



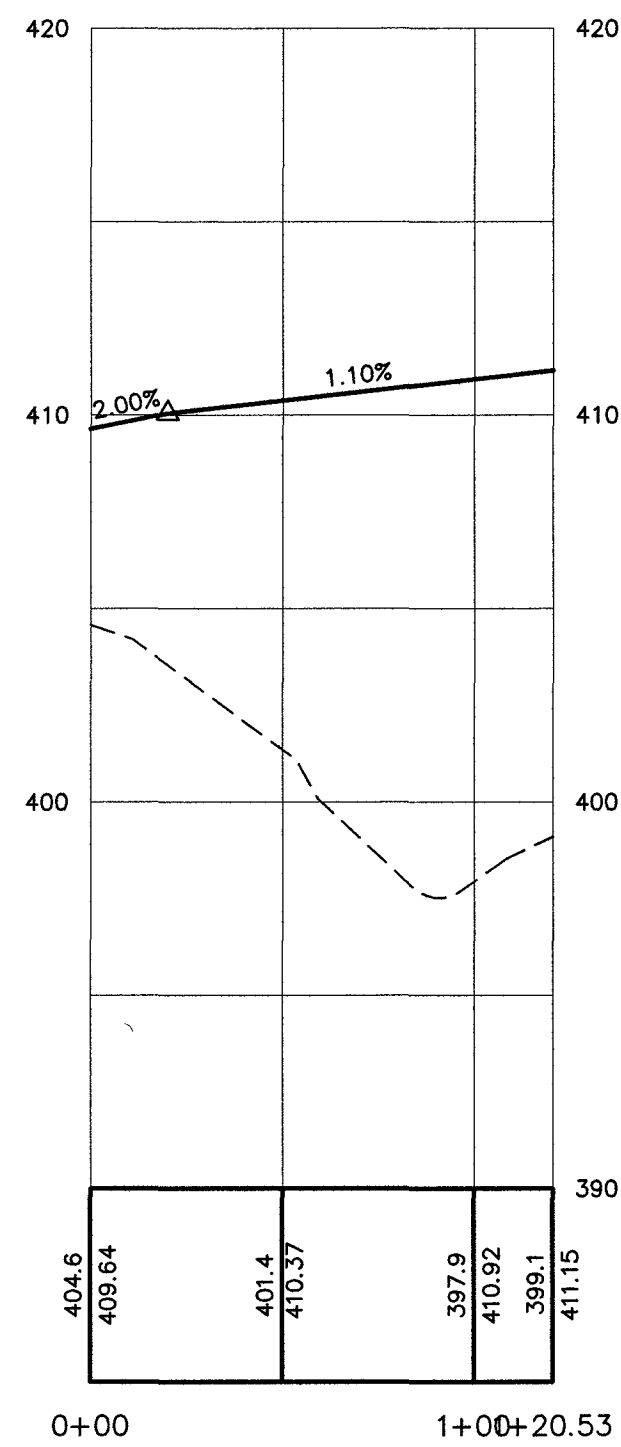
MAP 151 LOT 59-3 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



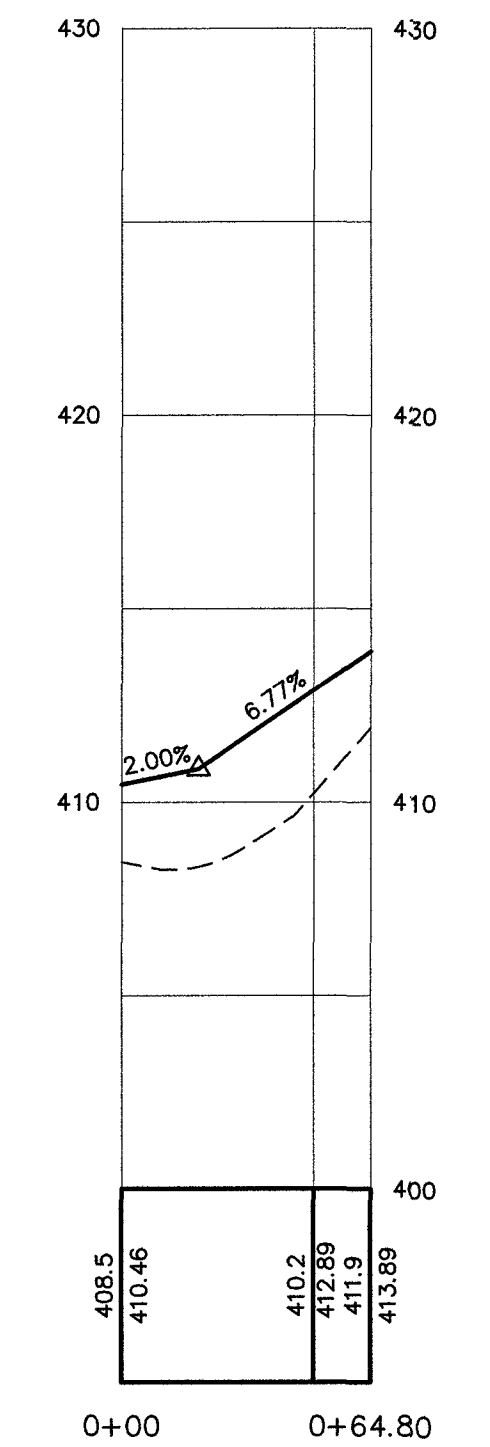
MAP 151 LOT 59-4 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



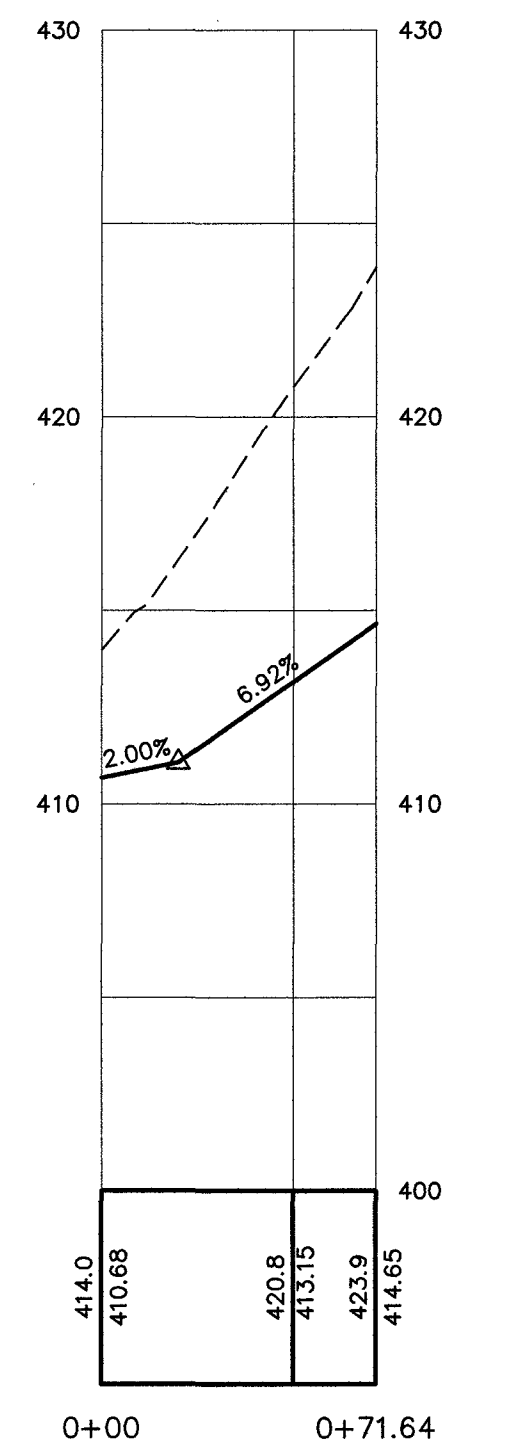
MAP 151 LOT 59-5 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



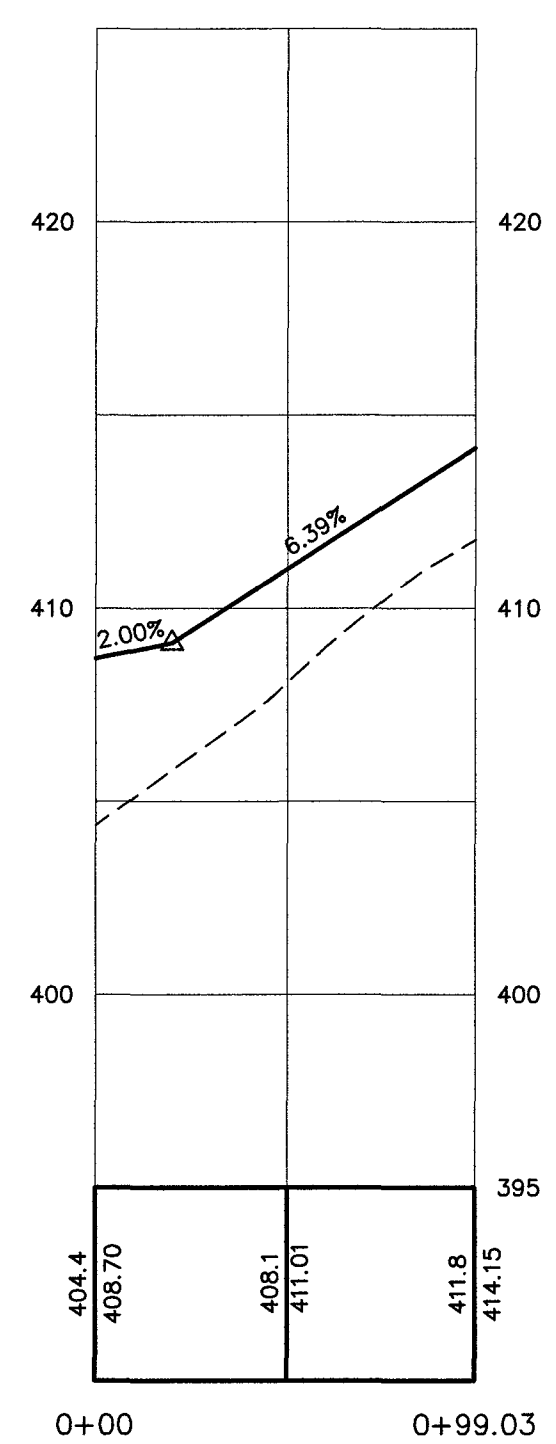
MAP 151 LOT 59-6 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



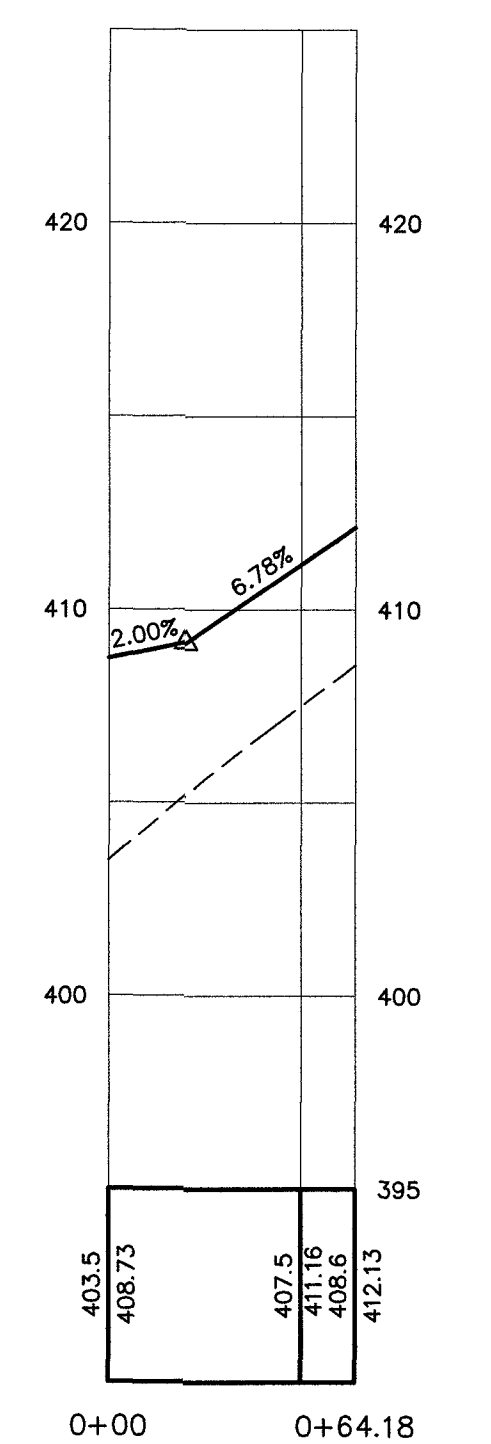
MAP 151 LOT 59-7 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



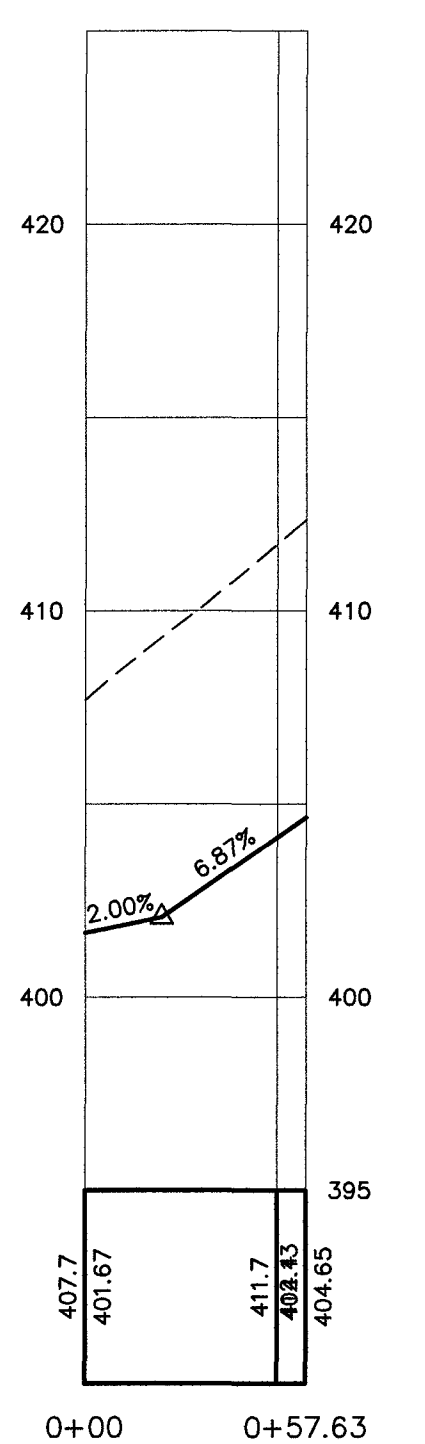
MAP 151 LOT 59-8 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



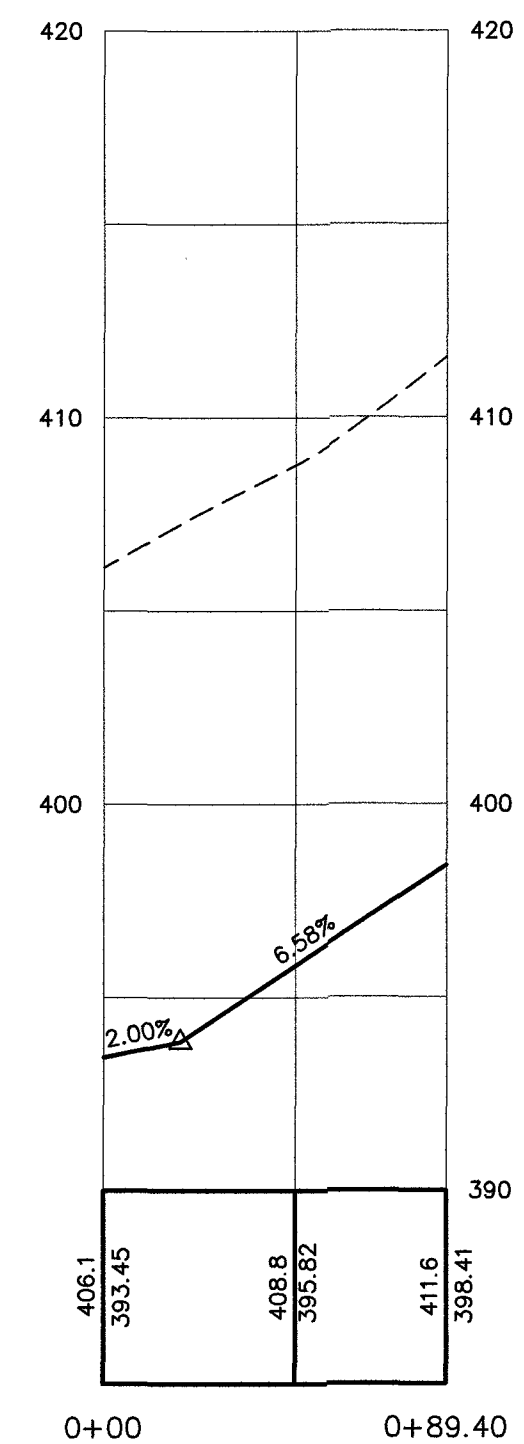
MAP 151 LOT 59-9 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



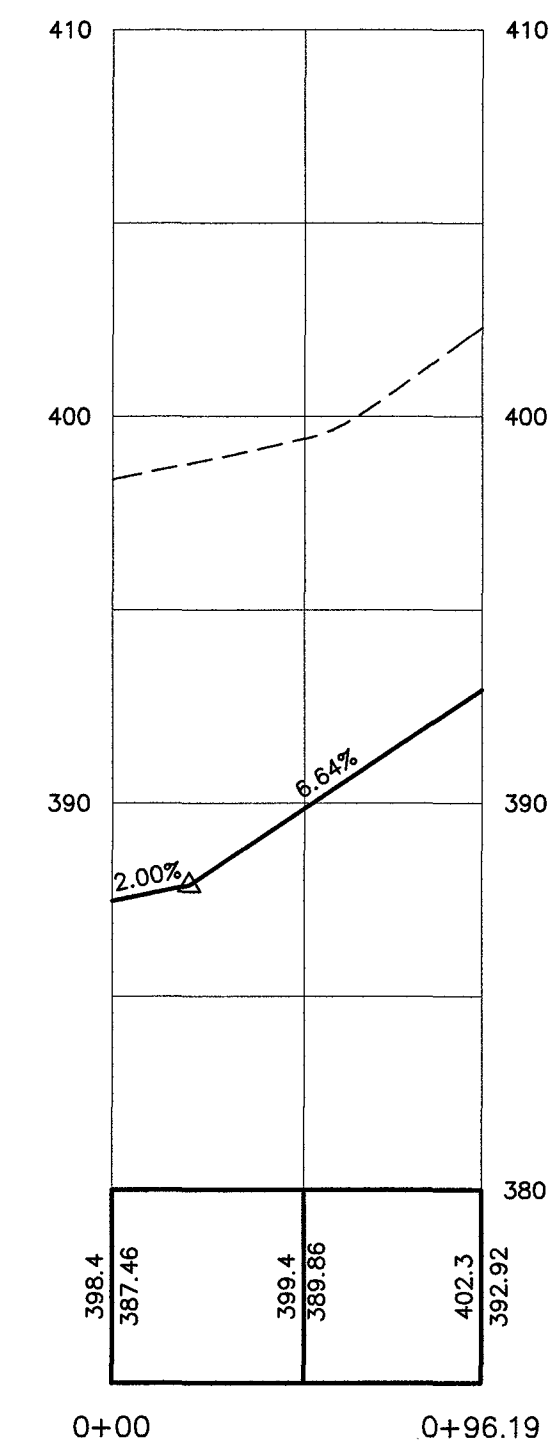
MAP 151 LOT 59-10 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



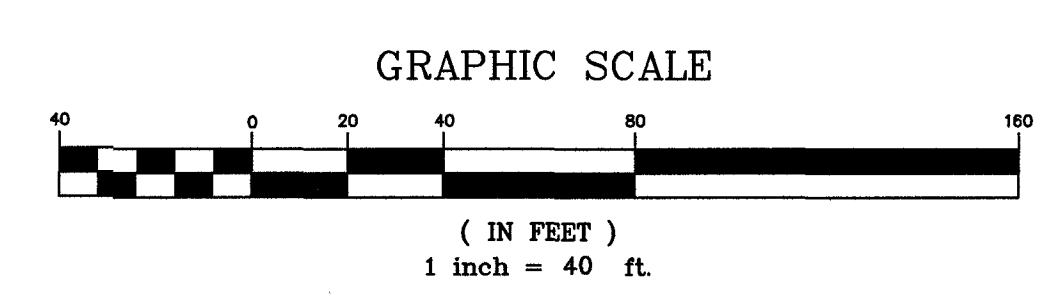
MAP 152 LOT 70 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



MAP 152 LOT 71 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



MAP 152 LOT 72 DRIVEWAY
 SCALE: 1" = 50'(HORIZ.)
 1" = 5'(VERT.)



DRIVEWAY PROFILES
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
 H.C.R.D. BK. 9700 PG. 287

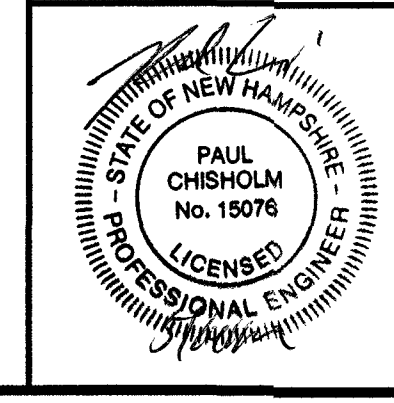
KM KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

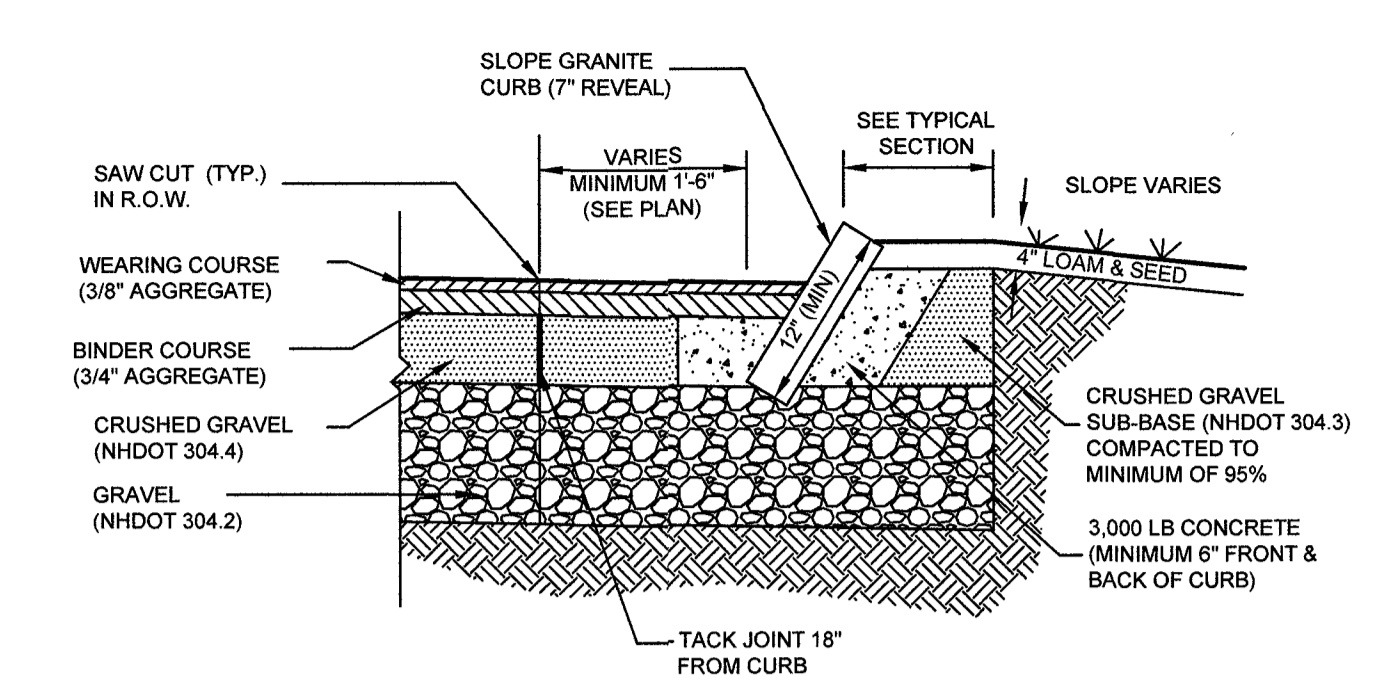
REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: 1" = 40'
 PROJECT NO: 23-0414-1 SHEET: 15 OF 24

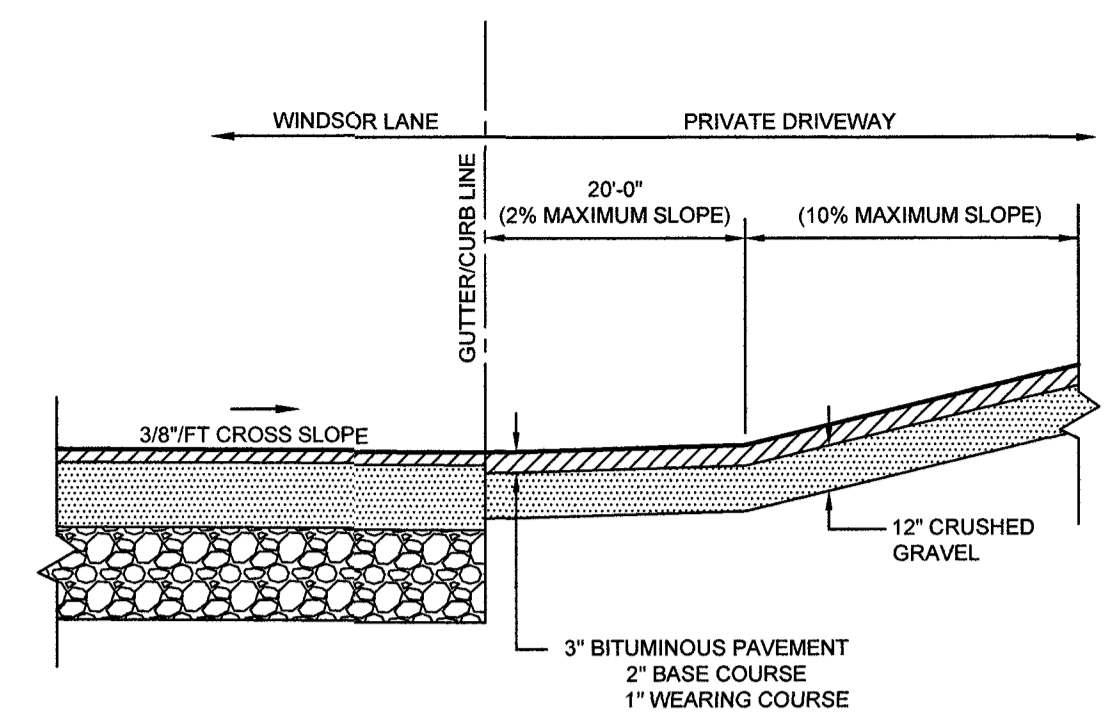
APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____
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 SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

SEE SHEET 10 FOR PLAN VIEW OF DRIVEWAYS

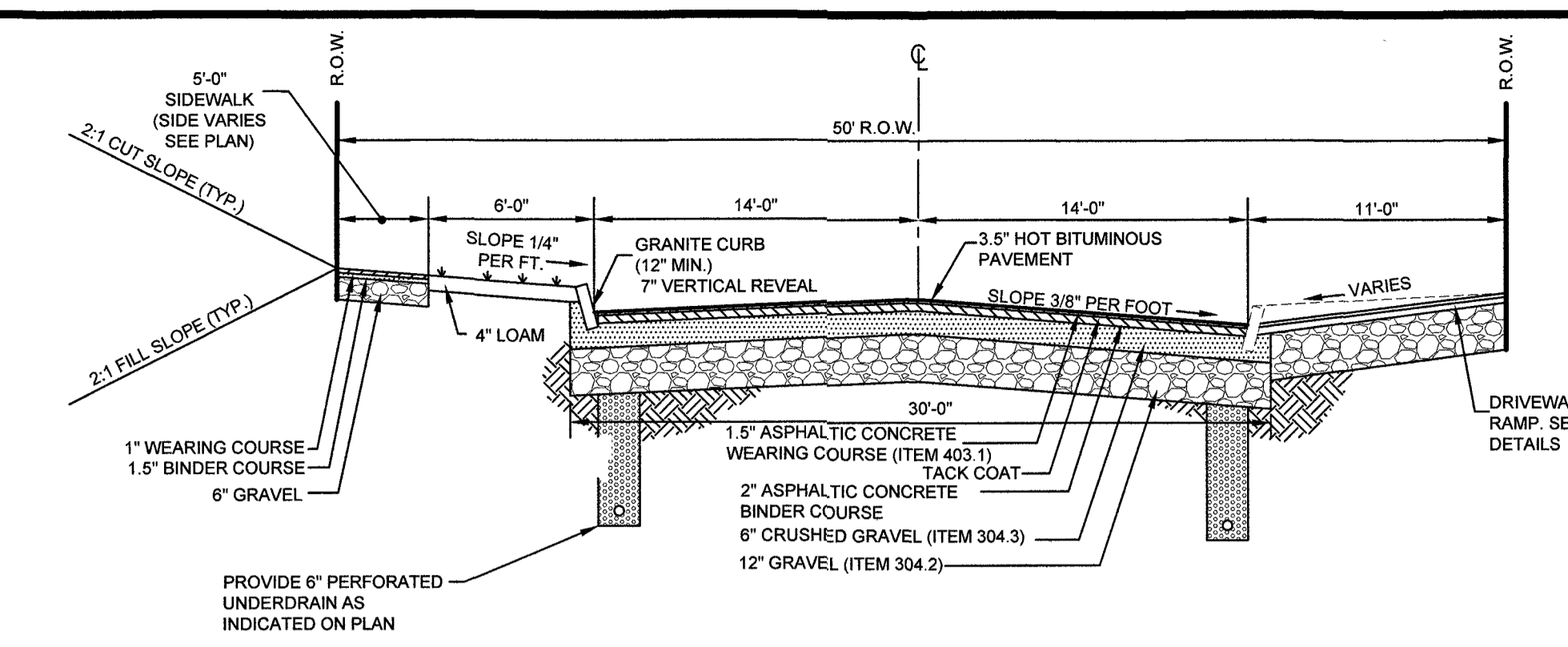




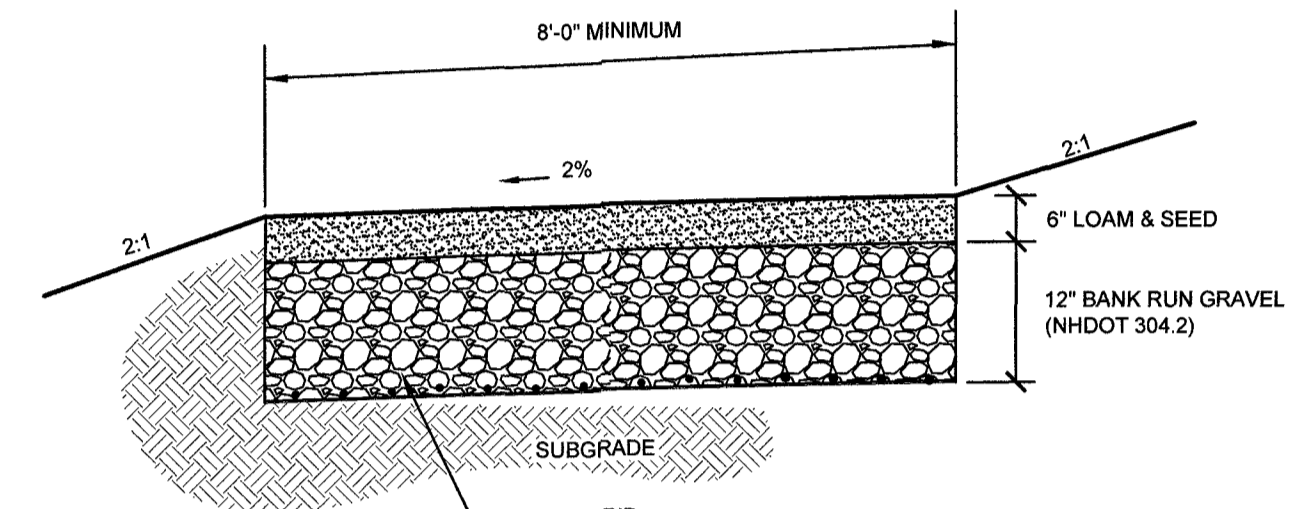
SLOPE GRANITE CURB DETAIL
NOT TO SCALE



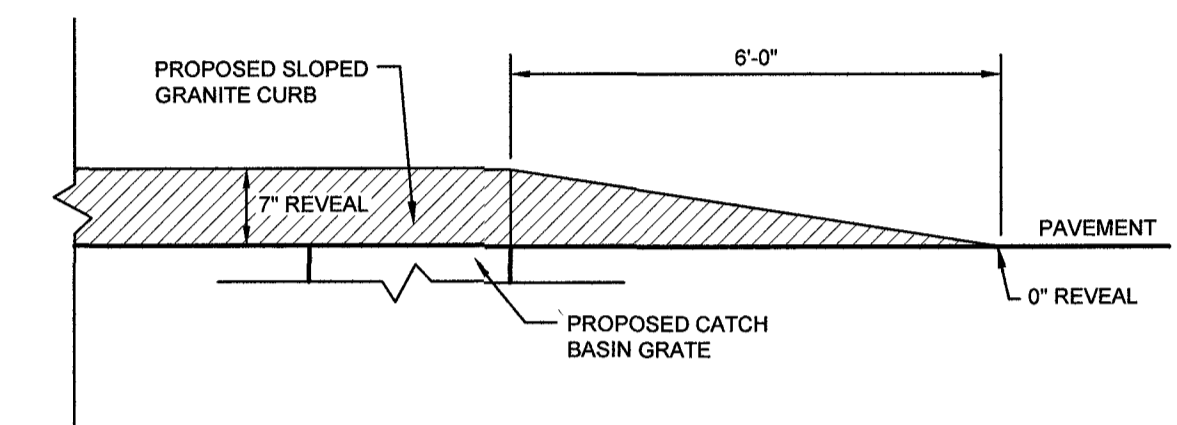
DRIVEWAY CROSS SECTION
NOT TO SCALE



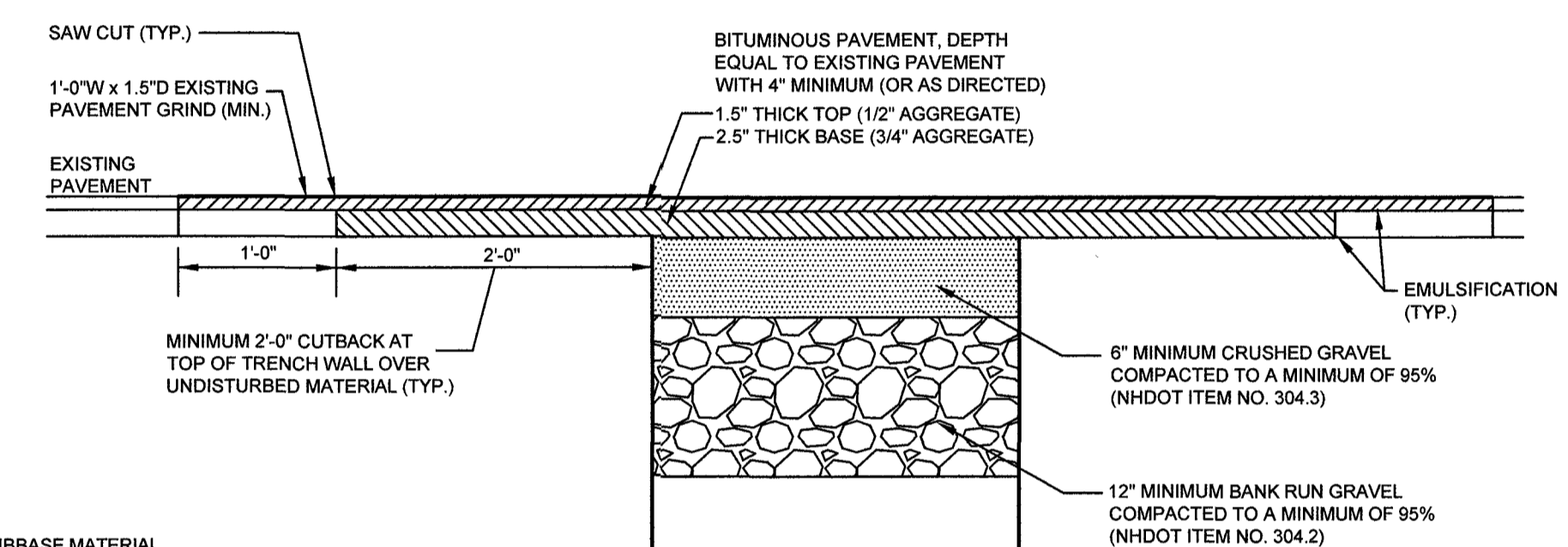
TYPICAL ROADWAY CROSS SECTION FOR WINDSOR LANE
NOT TO SCALE



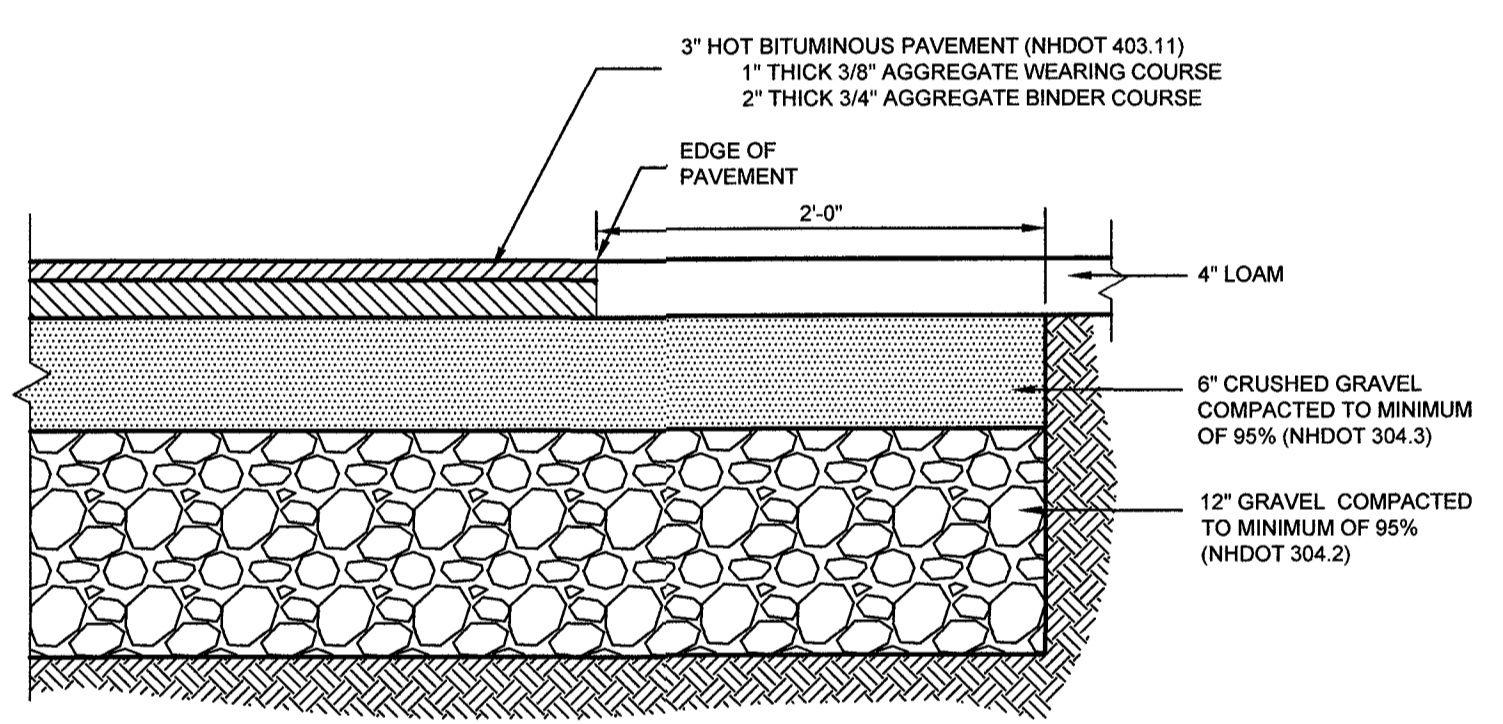
DRAINAGE ACCESS WAY DETAIL
NOT TO SCALE



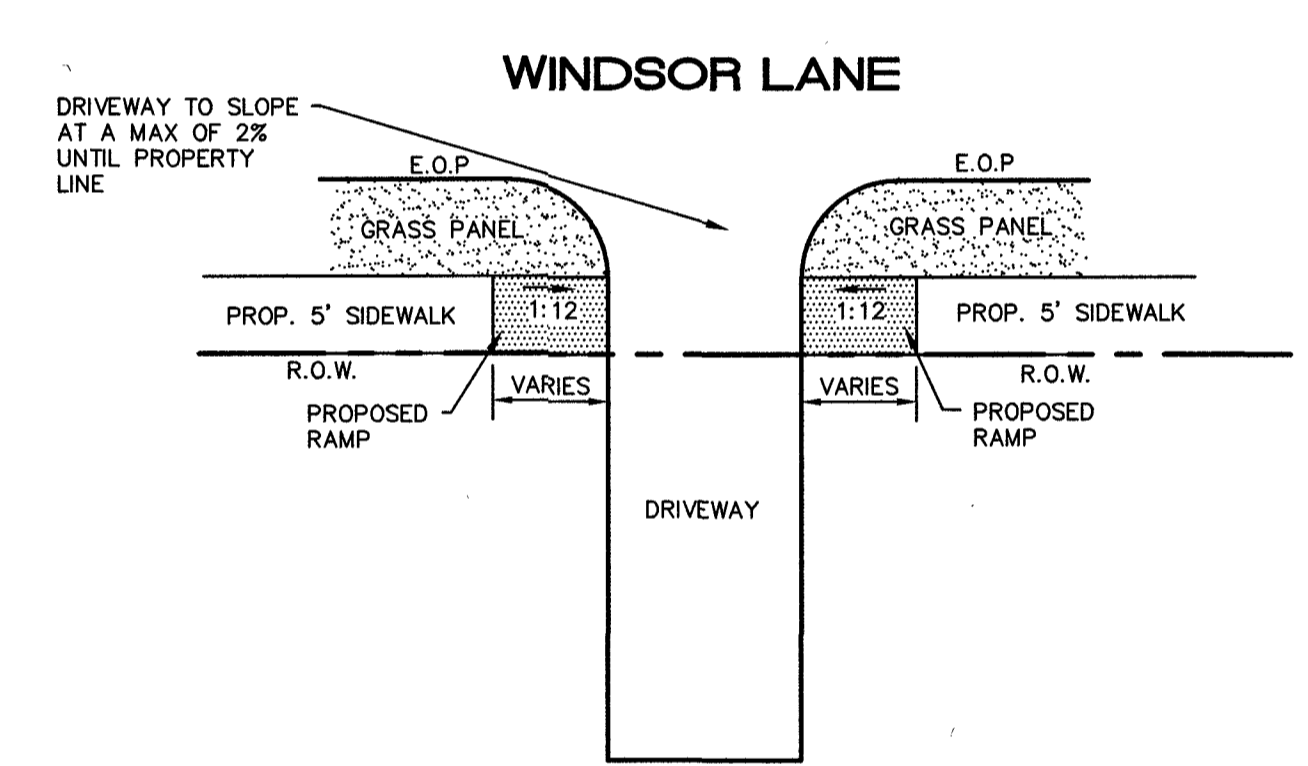
SLOPED GRANITE CURB TIP DOWN DETAIL
NOT TO SCALE



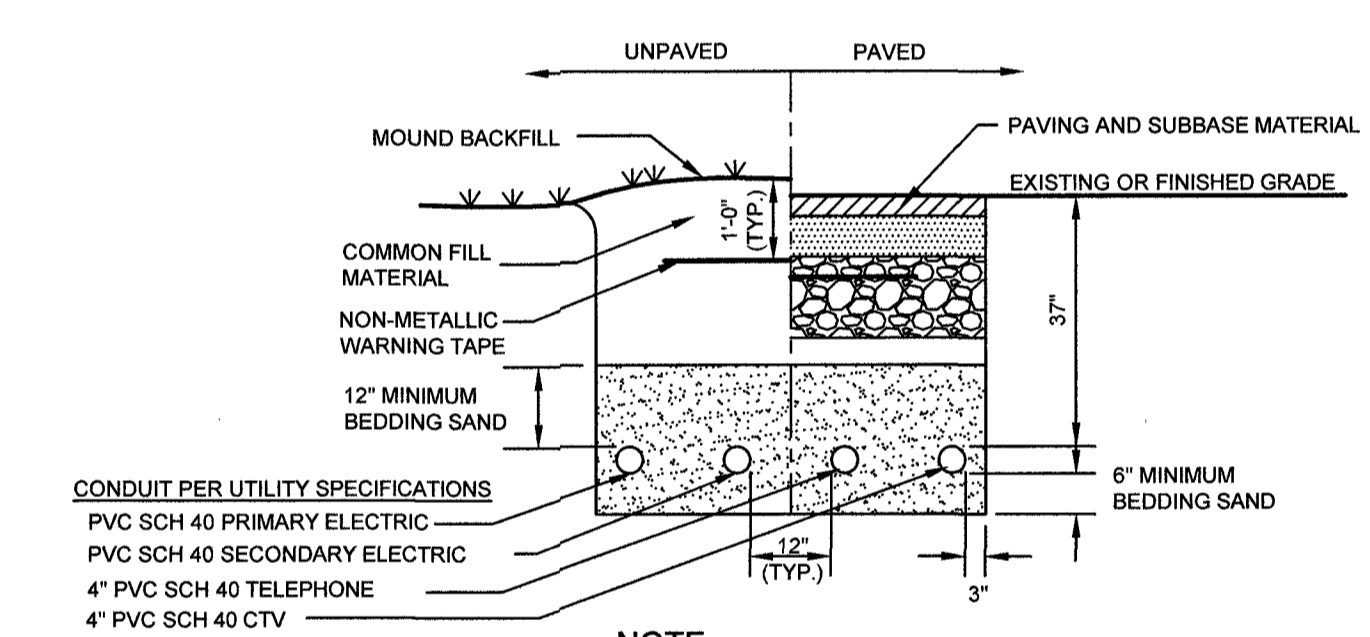
PERMANENT PAVEMENT REPAIR
NOT TO SCALE
(MARCH 2008)



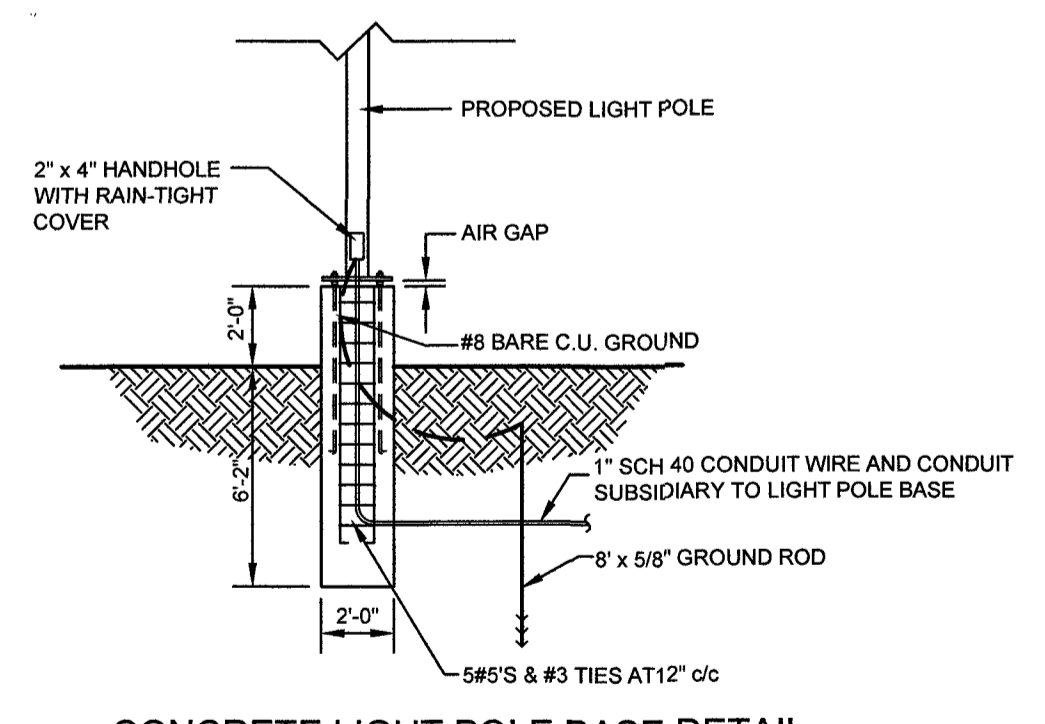
DRIVEWAY SECTION
NOT TO SCALE
(MARCH 2008)



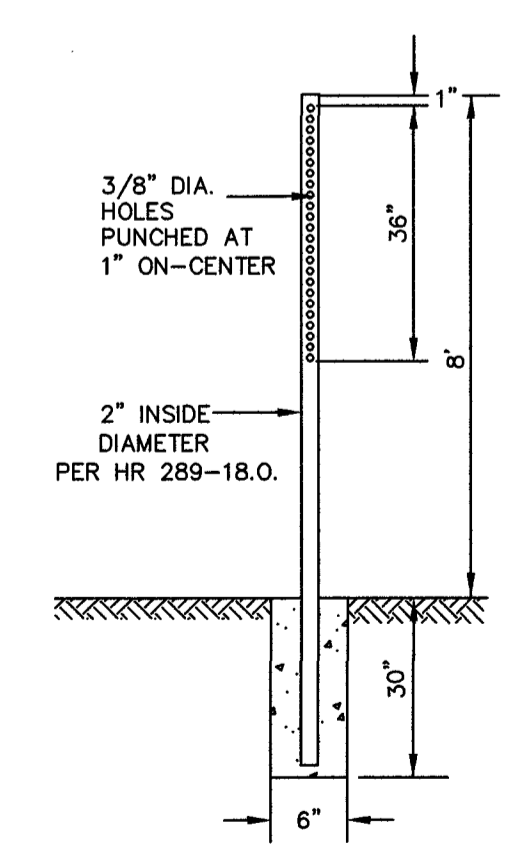
RAMP DETAIL AT DRIVEWAY
NOT TO SCALE



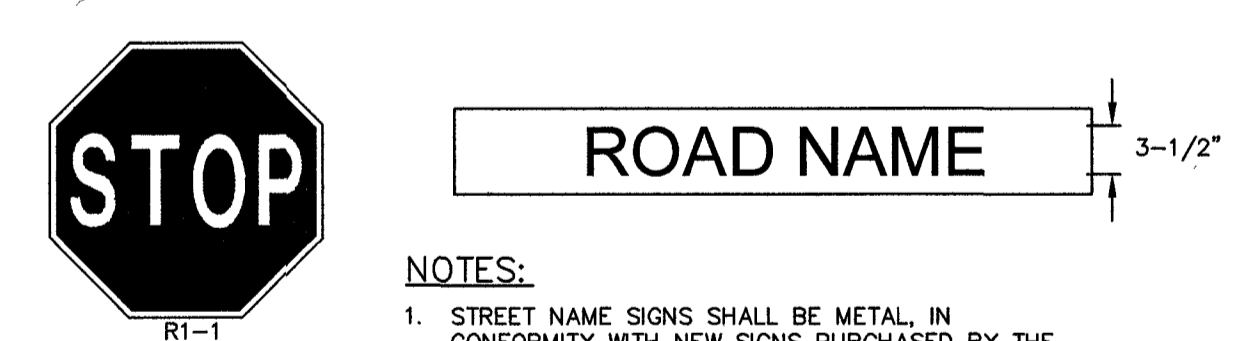
UTILITY TRENCH DETAIL
NOT TO SCALE
(MARCH 2008)



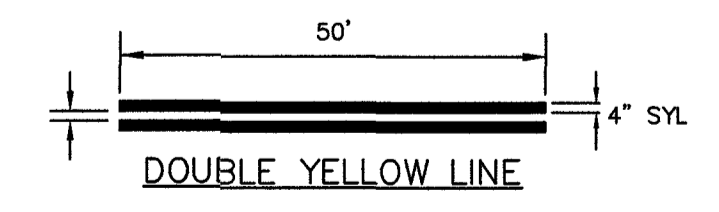
CONCRETE LIGHT POLE BASE DETAIL
NOT TO SCALE
(MARCH 2008)



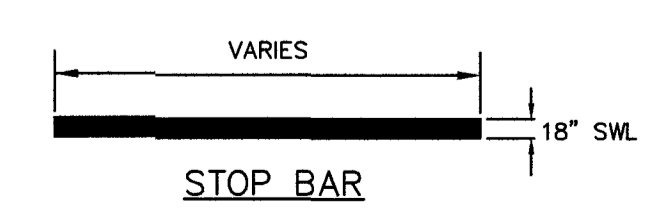
TYPICAL SIGN POST DETAIL
NOT TO SCALE



TYPICAL SIGN PLATE DETAILS
NOT TO SCALE



DOUBLE YELLOW LINE

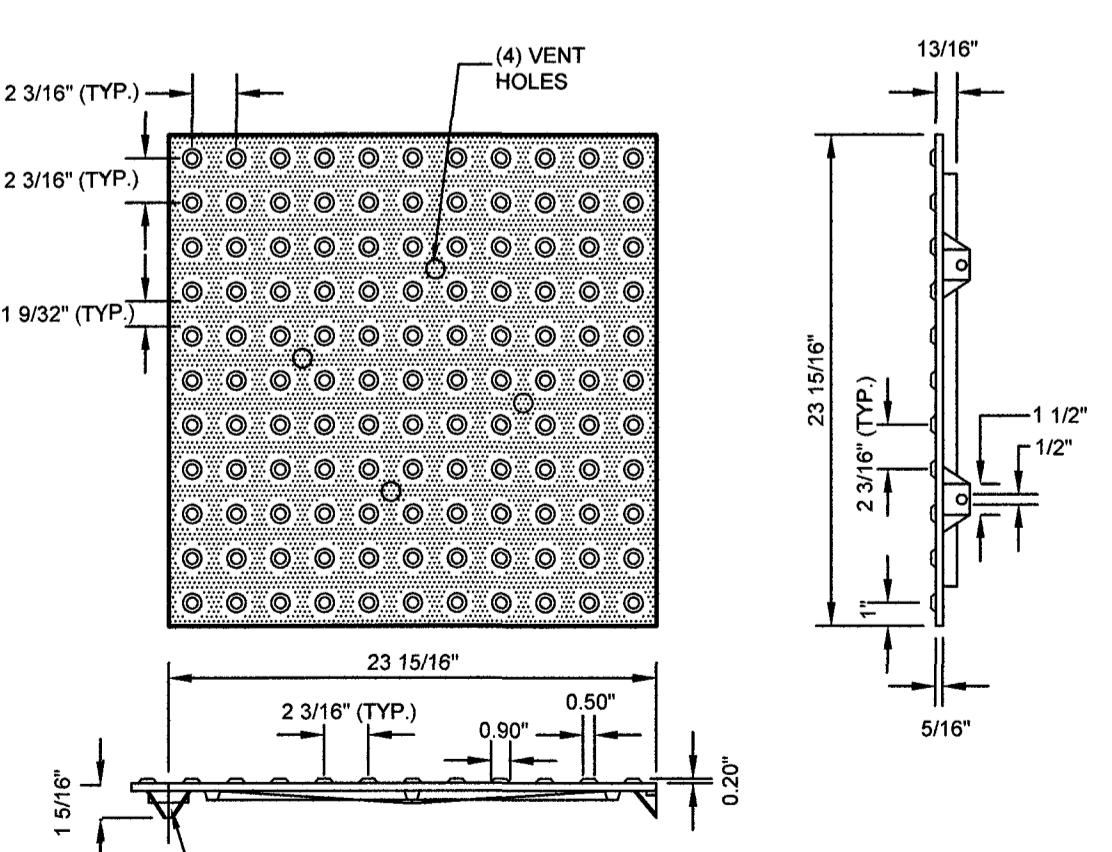


STOP BAR

TYPICAL PAVEMENT MARKING DETAIL
NOT TO SCALE

- NOTES:**
1. STREET NAME SIGNS SHALL BE METAL, IN CONFORMANCE WITH NEW SIGNS PURCHASED BY THE TOWN, TWO-FACED AND REFLECTORIZED, SIX INCHES HIGH WITH THREE-AND-ONE-HALF-INCH LETTERS EMBOSSED AND REFLECTORIZED WITH GREEN BACKGROUND AND WHITE LETTERS, OF ALUMINUM METAL.
 2. ALL PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THESE STANDARDS AND THE CURRENT EDITION OF MUTCD.
 3. THE WET FILM THICKNESS OF A PAINTED LINE SHALL BE A MINIMUM OF 15 MILS THROUGHOUT THE ENTIRE WIDTH AND LENGTH OF LINE SPECIFIED.
 4. OVERSPRAY SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
 5. ALL PAINT SHALL COMPLY WITH NHDOT SPECIFICATION SECTION 708.

STRIPING NOTES:



24\"/>

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____
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SIGNATURE DATE: _____
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CONSTRUCTION DETAILS
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

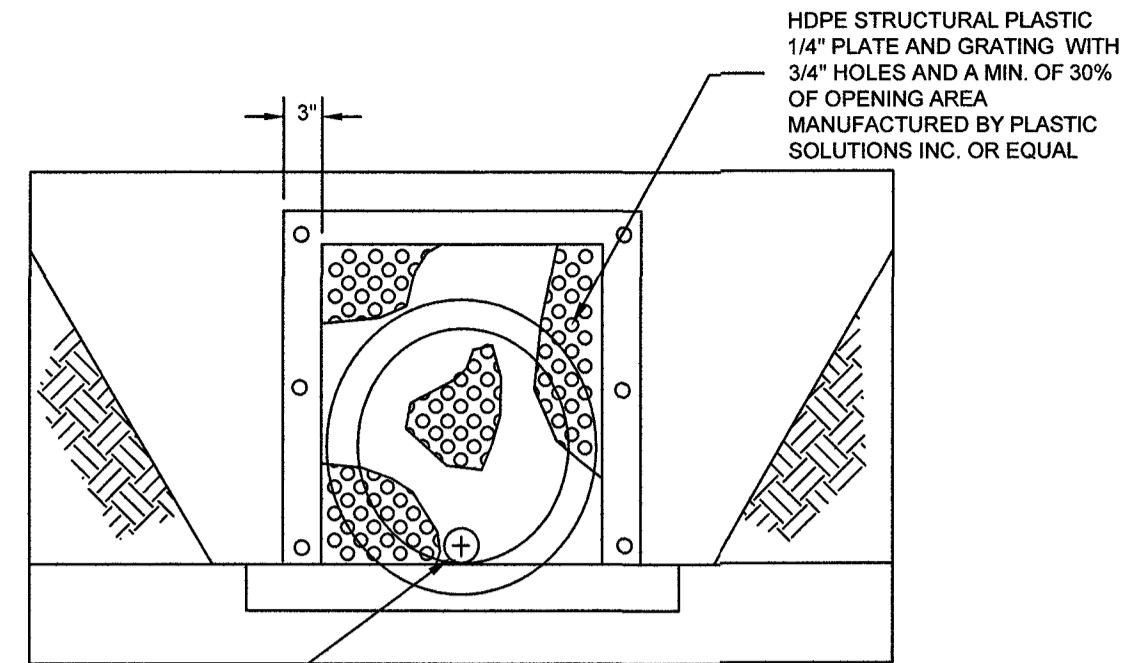
OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KEACH-NORDSTROM ASSOCIATES, INC.
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10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

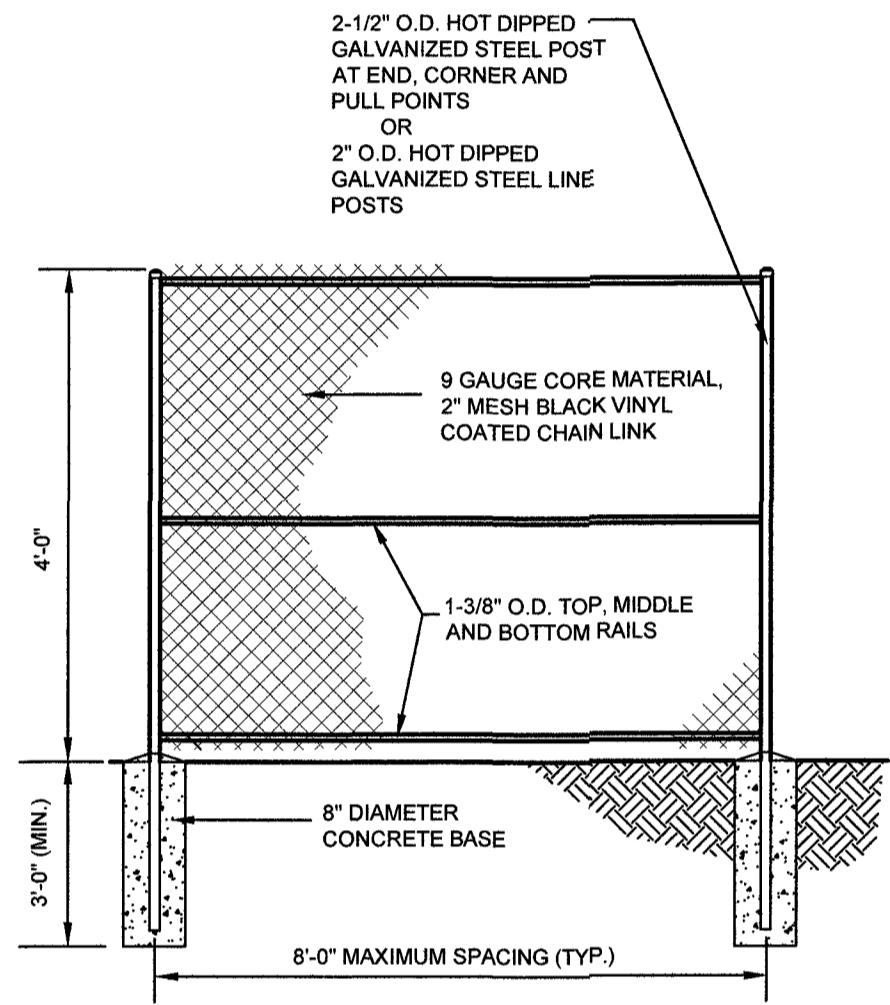
REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
PROJECT NO: 23-0414-1 SHEET: 16 OF 24

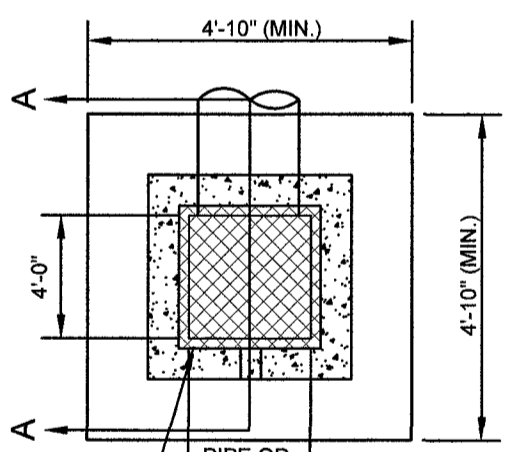
PAUL CHISHOLM
No. 15076
LICENSED PROFESSIONAL ENGINEER



TRASH RACK DETAIL
NOT TO SCALE



CHAIN LINK FENCE DETAIL
NOT TO SCALE
(MARCH 2008)



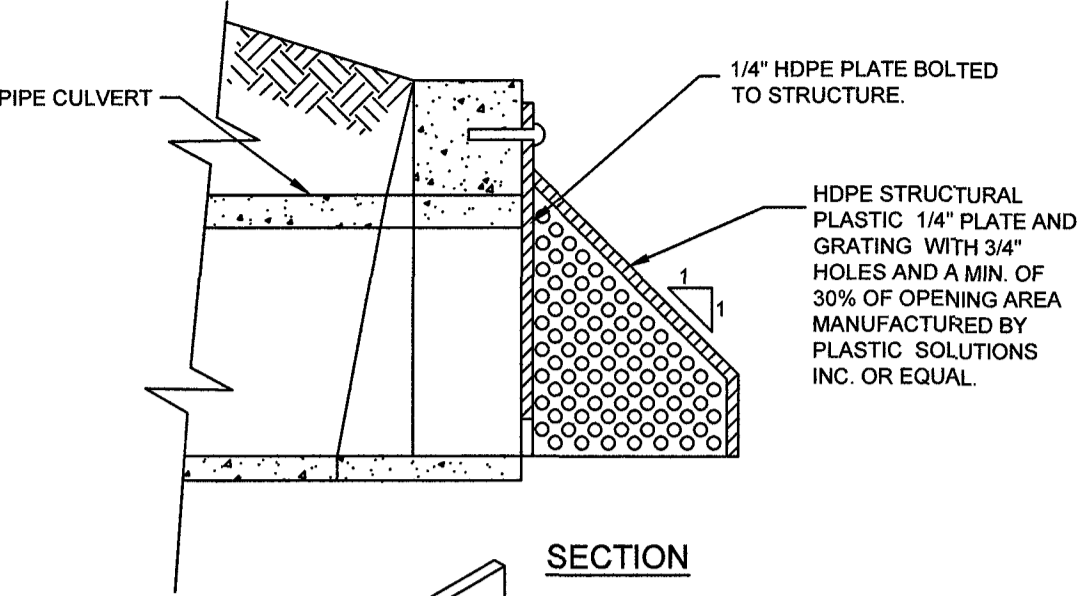
OUTLET STRUCTURE #20
NOT TO SCALE

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

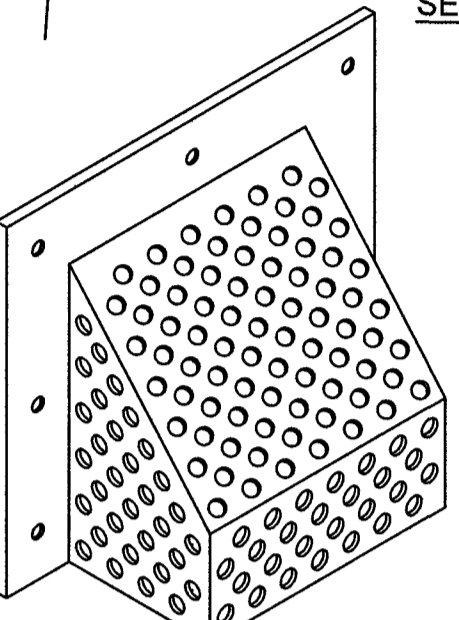
SIGNATURE DATE: _____

SIGNATURE DATE: _____

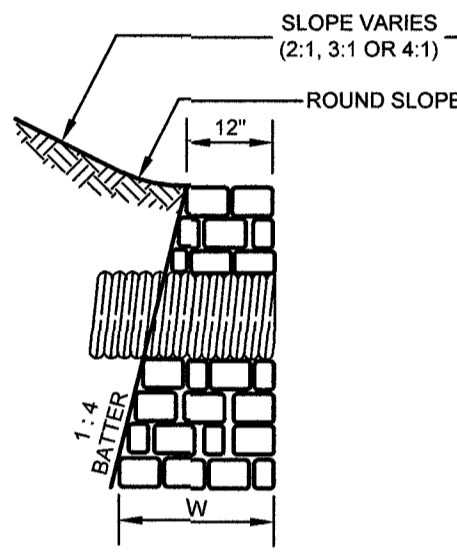
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.



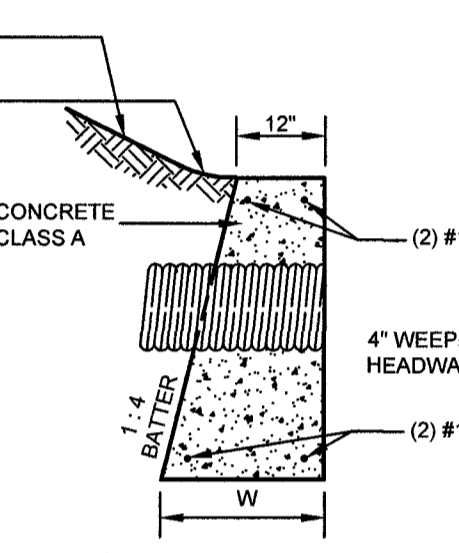
SECTION



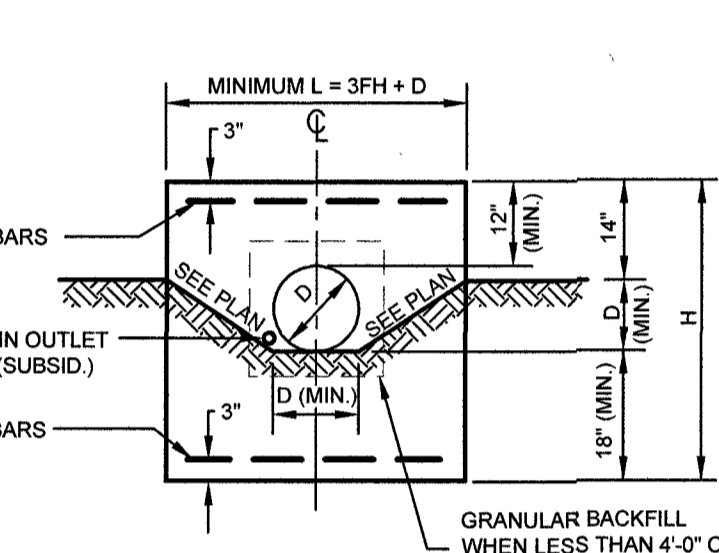
ISOMETRIC



MORTAR RUBBLE MASONRY SECTION ON CENTERLINE



CONCRETE SECTION ON CENTERLINE



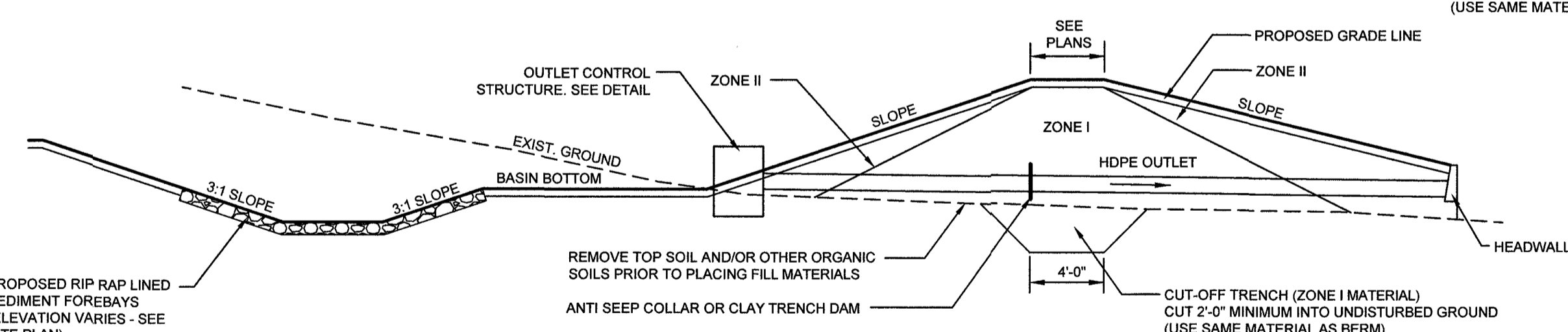
ELEVATION

NOTE:
DIMENSIONS SHOWN ARE TO PAYMENT LINES. MORTAR RUBBLE MASONRY TO BE STEPPED OUTSIDE PAYMENT LINES ON SLOPING FACES.

											1\"/>				
DIAMETER D (INCH)	AREA OF PIPE (SF)	MASONRY PER FOOT OF WALL (CU. YD.)	MASONRY PER HOLE (CU. FT.)	MASONRY PER STANDARD HEADER (CU. YD.)	STEEL PER STANDARD HEADER (LB)	LENGTH OF BARS	PIPE EXC. 1' DEPTH (CU. YD.)	HEADER EXC. PER HEADER 1' DEPTH (CU. YD.)	ITEM 209 PER LINEAR FOOT	HEADER LENGTH L	HEADER HEIGHT H	FILL HEIGHT FH	WIDTH AT BOTTOM OF HEADER W	MASONRY IN CORNER FRUSTRUM (CU. YD.)	HEADER EXC. PER HEADER 1' DEPTH (CU. YD.)
12"	0.79	0.186	1.08	0.61	9	3'-2"	0.111	0.789	0.30	3'-6"	3'-6"	10"	1'-10 1/2"	0.28	1.057
15"	1.23	0.292	1.73	0.85	11	3'-10"	0.367	0.35	4'-0"	3'-3"	1'-1"	1'-11 1/4"	0.31	1.232	
18"	1.77	0.222	2.52	1.13	14	5'-2"	1.130	1.111	0.39	5'-8"	4'-0"	1'-4"	2'-0"	0.35	1.406
24"	3.14	0.260	4.71	1.78	20	7'-2"	0.148	1.451	0.48	7'-8"	4'-6"	1'-10"	2'-1 1/2"	0.42	1.776
30"	4.91	0.301	7.67	2.58	25	9'-2"	0.185	1.810	0.65	9'-6"	5'-0"	2'-4"	2'-3"	0.51	2.164

NOTE: STEEL QUANTITIES ARE FOR CONCRETE HEADWALLS ONLY.

MORTAR RUBBLE MASONRY AND CONCRETE HEADWALLS
NOT TO SCALE
(MARCH 2008)



STORMWATER PONDS CONSTRUCTION SEQUENCE

- CONTRACTOR TO NOTIFY DIG-SAFE 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CUT AND CLEAR TREES AND BRUSH FROM CONSTRUCTION AREAS TO THE EXTENT NECESSARY. ALL BRANCHES, TOPS AND BRUSH TO BE PROPERLY DISPOSED OF BY CONTRACTOR.
- PRIOR TO GRUBBING OF CLEARED AREAS, ALL SILTATION BARRIERS DESIGNED FOR USE AS TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED AS CALLED FOR ON PROJECT PLANS.
- COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR DEBRIS SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR. ORGANIC MATERIAL SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED IN UPLAND AREAS. ALL STOCKPILES SHALL BE SEEDDED WITH WINTER RYE AND, IF NECESSARY, SURROUNDED WITH HAY BALES IN ORDER TO PREVENT LOSS DUE TO EROSION.
- CONSTRUCT TEMPORARY CULVERTS AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. ALL SUCH CROSSINGS SHALL BE PROTECTED WITH HAY BALE BARRIERS TO LIMIT EROSION.
- CONSTRUCT CUT-OFF TRENCH (PART OF ZONE I).
- CONSTRUCT OUTLET AND OVERFLOW STRUCTURE, CULVERT, ANTI SEEP COLLARS, HEADWALL, AND RIP RAP OUTLET PROTECTION AS SHOWN ON PLANS.
- CONSTRUCT ZONE I PORTION OF EARTH EMBANKMENT.
- CONSTRUCT ZONE II PORTION OF EARTH EMBANKMENT.
- APPLY TOPSOIL TO SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED SO AS TO BE FREE OF ROOTS, BRANCHES, STONES, AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF A 4-INCH COMPACTED THICKNESS. UPON COMPLETION OF TOPSOILING, FINISHED SECTIONS ARE TO BE LIMED, SEEDDED AND MULCHED. CONSTRUCTION PERSONNEL SHALL INSPECT COMPLETED SECTIONS OF WORK ON A REGULAR BASIS AND REMEDY ANY PROBLEM AREAS UNTIL A HEALTHY STAND OF GRASS HAS BECOME ESTABLISHED.
- MAINTAIN, REPAIR, AND REPLACE AS NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE CONSTRUCTION AREA HAS BEEN STABILIZED (A MINIMUM OF ONE WINTER SHALL HAVE PASSED).
- AFTER STABILIZATION, REMOVE AND SUITABLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES.
- MONITOR CONSTRUCTION ACTIVITIES TO INSURE CONSTRUCTION ACTIVITIES ARE BEING PERFORMED IN SUCH A WAY AS NOT TO ENDANGER THE INTEGRITY OF EARTH EMBANKMENTS, STORMWATER CONTROL STRUCTURE, CULVERT AND RIP RAP OUTLET PROTECTION.

POCKET POND EMBANKMENT DETAIL

MATERIAL TYPE/SPECIFICATIONS

ZONE I
WELL GRADED MIXTURE OF GRAVEL, SAND, SILT OR CLAY WITH MAX. 6-INCH SIZE STONE AND GEADATION AS INDICATED BELOW. PLACE IN MAX. 12-INCH THICK LIFTS TO 95% OF MAX. DRY DENSITY IN ACCORDANCE WITH ASTM D1557. SCARIFY SURFACE PRIOR TO PLACING SUBSEQUENT LIFT. IN ADDITION, REMOVE ORGANIC SOILS.

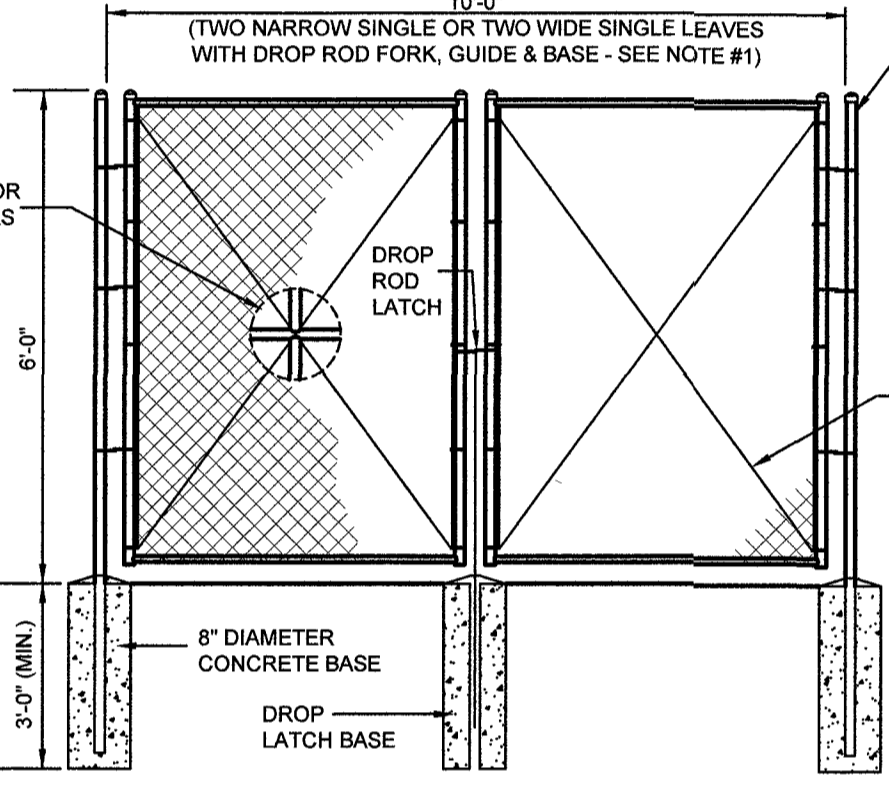
SIEVE SIZE	PERCENT BY WEIGHT PASSING
6-INCH	100
NO. 4	50 TO 100
NO. 40	30 TO 70
NO. 200	20 TO 40

TYPICAL POCKET POND SECTION
NOT TO SCALE

ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F
374.00	373.90	363.00	366.00	371.00	369.00

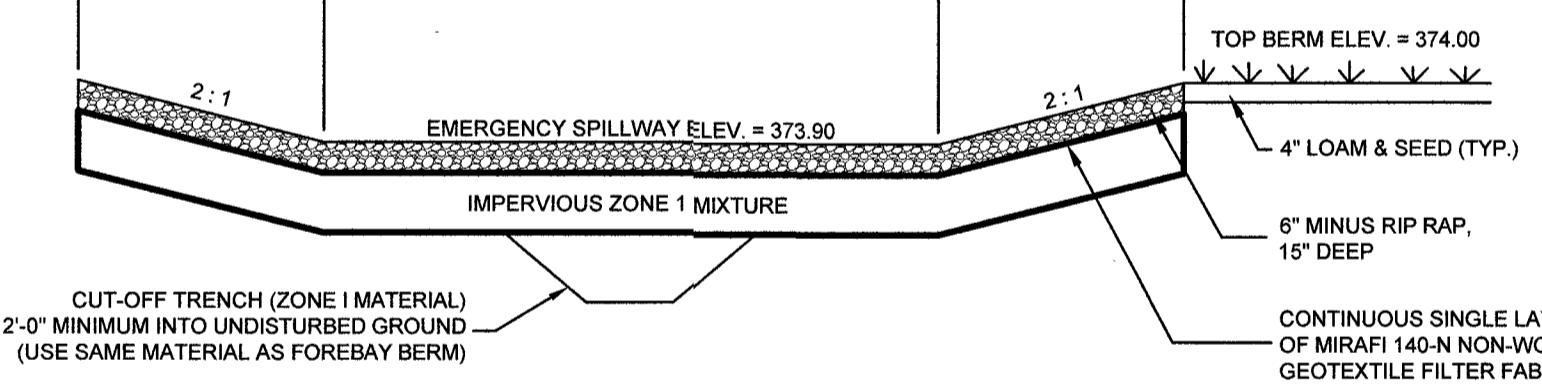
MAINTENANCE REQUIREMENTS:

- SEDIMENT FOREBAY:**
- INSPECT AT LEAST TWICE ANNUALLY.
 - CONDUCT PERIODIC MOWING OF EMBANKMENTS (GENERALLY TWO TIMES PER YEAR) TO CONTROL GROWTH OF WOODY VEGETATION ON EMBANKMENTS.
 - REMOVE DEBRIS FROM OUTLET STRUCTURES AT LEAST ONCE ANNUALLY.
 - REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION.
 - INSTALL AND MAINTAIN A STAFF GAGE OR OTHER MEASURING DEVICE, TO INDICATE DEPTH OF SEDIMENT ACCUMULATION AND LEVEL AT WHICH CLEAN-OUT IS REQUIRED.
- POCKET POND:**
- THE BOTTOMS, INTERIOR AND EXTERIOR SIDE SLOPES AND CREST OF EARTHEN DETENTION BASINS SHOULD BE MOWED, AND THE VEGETATION MAINTAINED IN HEALTHY CONDITION, AS APPROPRIATE TO THE FUNCTION OF THE FACILITY AND TYPE OF VEGETATION.
 - VEGETATED EMBANKMENTS THAT SERVE AS "BERMS" OR "DAMS" THAT IMPOUND WATER SHOULD BE MOVED AT LEAST ONCE ANNUALLY TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION.
 - INLET AND OUTLET PIPES, INLET AND OUTLET STRUCTURES, ENERGY DISSIPATION STRUCTURES OR PRACTICES AND OTHER STRUCTURAL APPURTENANCES SHOULD BE INSPECTED AT LEAST ANNUALLY BY A QUALIFIED PROFESSIONAL AND CORRECTIVE ACTION IMPLEMENTED (EG. MAINTENANCE, REPAIRS OR REPLACEMENT) AS INDICATED BY SUCH INSPECTION.
 - TRASH AND DEBRIS SHOULD BE REMOVED FROM THE BASIN AND ANY INLET OR OUTLET STRUCTURES WHENEVER OBSERVED BY INSPECTION.
 - ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT SIGNIFICANTLY AFFECTS BASIN CAPACITY.



DOUBLE LEAF GATE
NOT TO SCALE
(SEPTEMBER 2010)

- NOTES:**
- REINFORCE THE GATE FRAME CORNERS WITH A MALLEABLE IRON OR PRESSED STEEL FITTING DESIGNED FOR THE PURPOSE OR SHOP WELD THE CORNERS. GRIND SMOOTH ALL WELDS AND PAINT WITH AN APPROVED ZINC RICH PAINT. FURNISH EACH GATE WITH THE NECESSARY HINGES, LATCH AND DROP ROD LOCKING DEVICE DESIGNED FOR THE TYPE OF GATE POSTS AND GATE USED ON THE PROJECT. PROVIDE POSITIVE TYPE LATCHING DEVICES WITH PROVISIONS FOR PAD LOCKING AT ALL GATES. PROVIDE KEEPERS TO RETAIN THE GATE IN THE OPEN POSITION.
 - APPROVED ALTERNATIVE GATE FRAMES CONSTRUCTED OF STEEL SECTIONS, OTHER THAN PIPE, MAY BE USED.
 - THE DESIGN OF THE CHAIN LINK HARDWARE MAY VARY FROM THE DETAILS SHOWN, HOWEVER, ALL HARDWARE AND MATERIALS USED IN A SINGLE INSTALLATION SHALL BE UNIFORM AND COMPATIBLE.



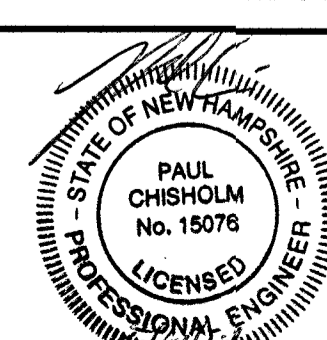
EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

CONSTRUCTION DETAILS
BARRETT HILL SUBDIVISION

MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

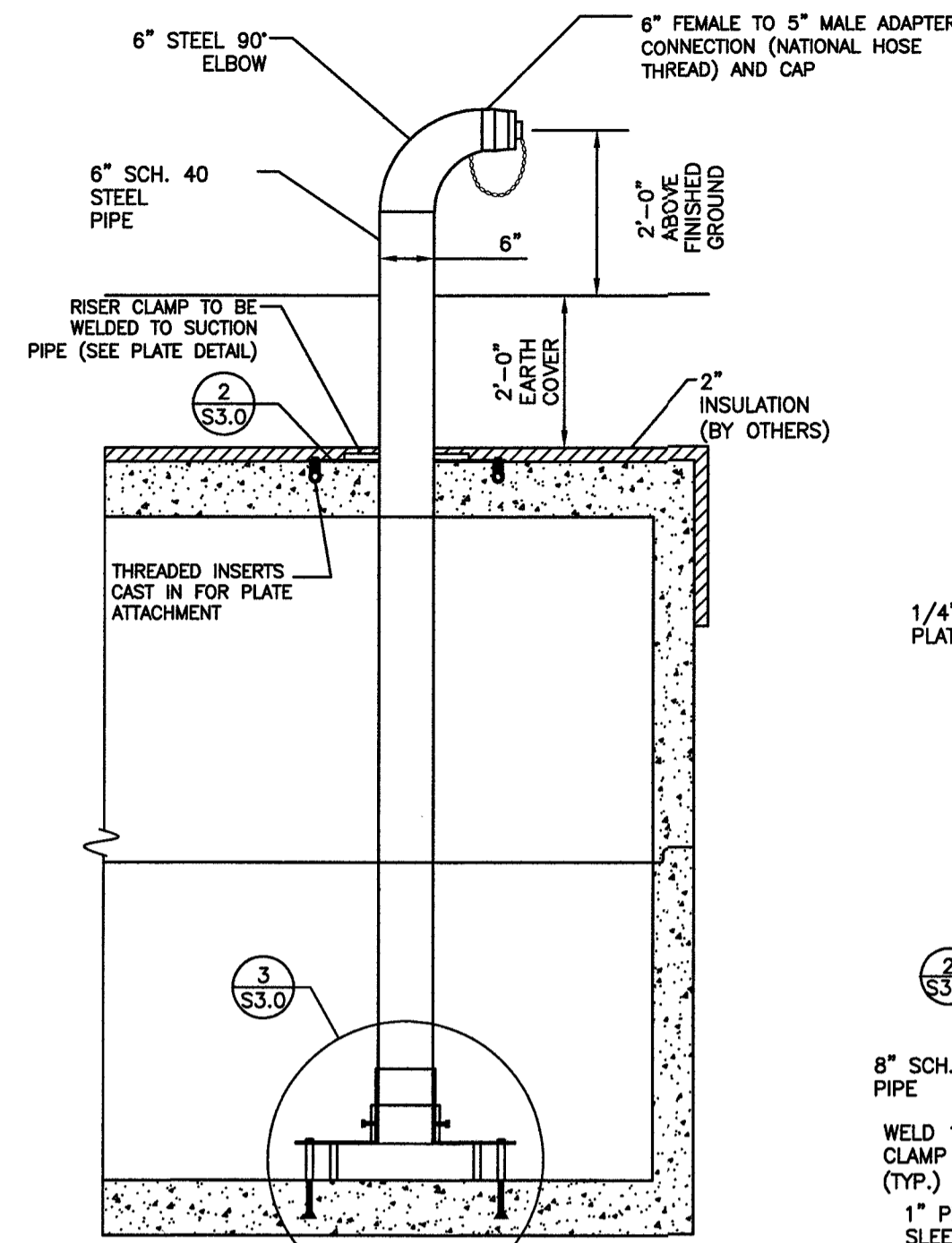
OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KMA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881



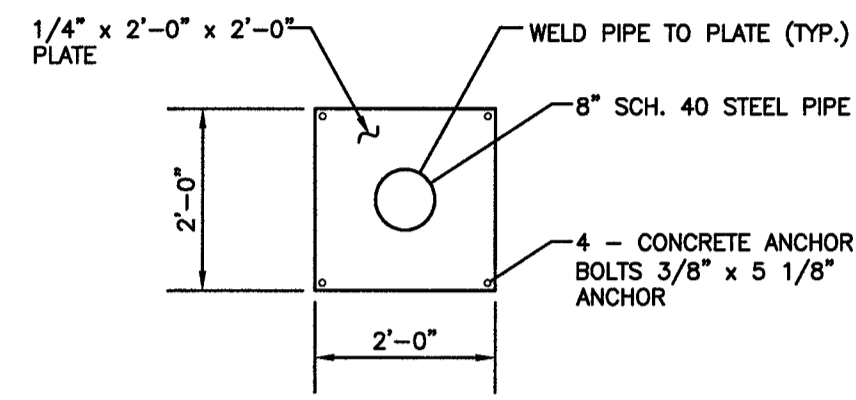
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
PROJECT NO: 23-0414-1 SHEET: 17 OF 24

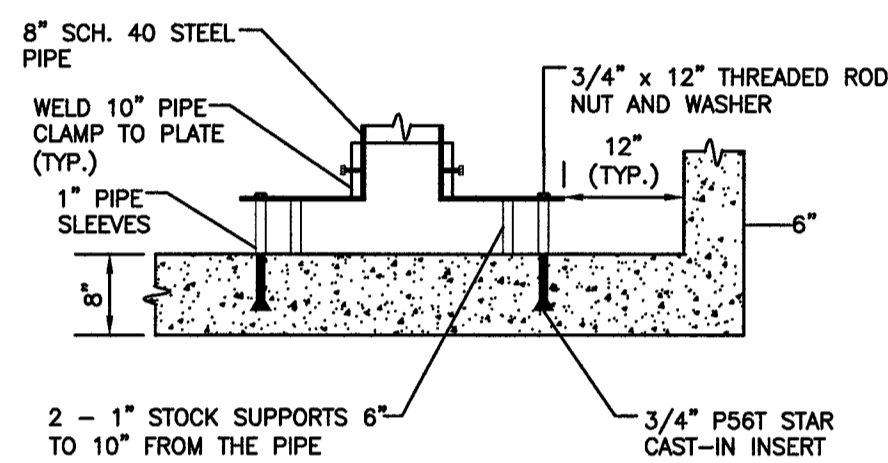


NOTE:
 6" VERTICAL SUCTION PIPE TERMINATING WITH AN 8" x 6" 90° THREADED REDUCING ELBOW AND A 6" NST OR 4 1/2" NST NOZZLE AND CAP. THE SUCTION PIPE CONNECTION SHOULD BE 24" ABOVE THE LEVEL OF THE ROAD OR SHOULDER WHERE THE VEHICLE WHEELS WILL BE LOCATED WHEN CISTERN IS IN USE.

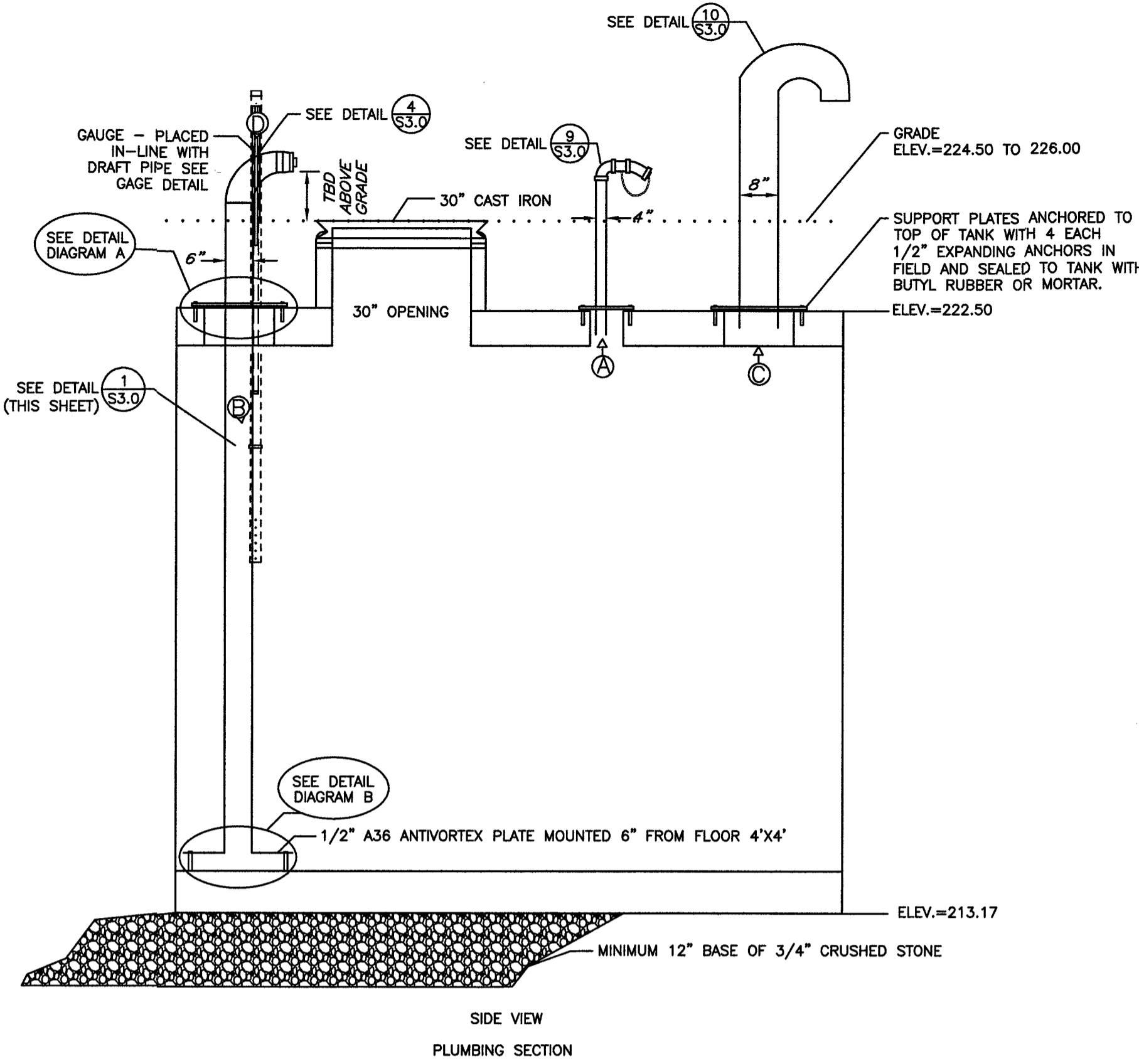
1 SUCTION ASSEMBLY DETAIL
 S3.0 NOT TO SCALE



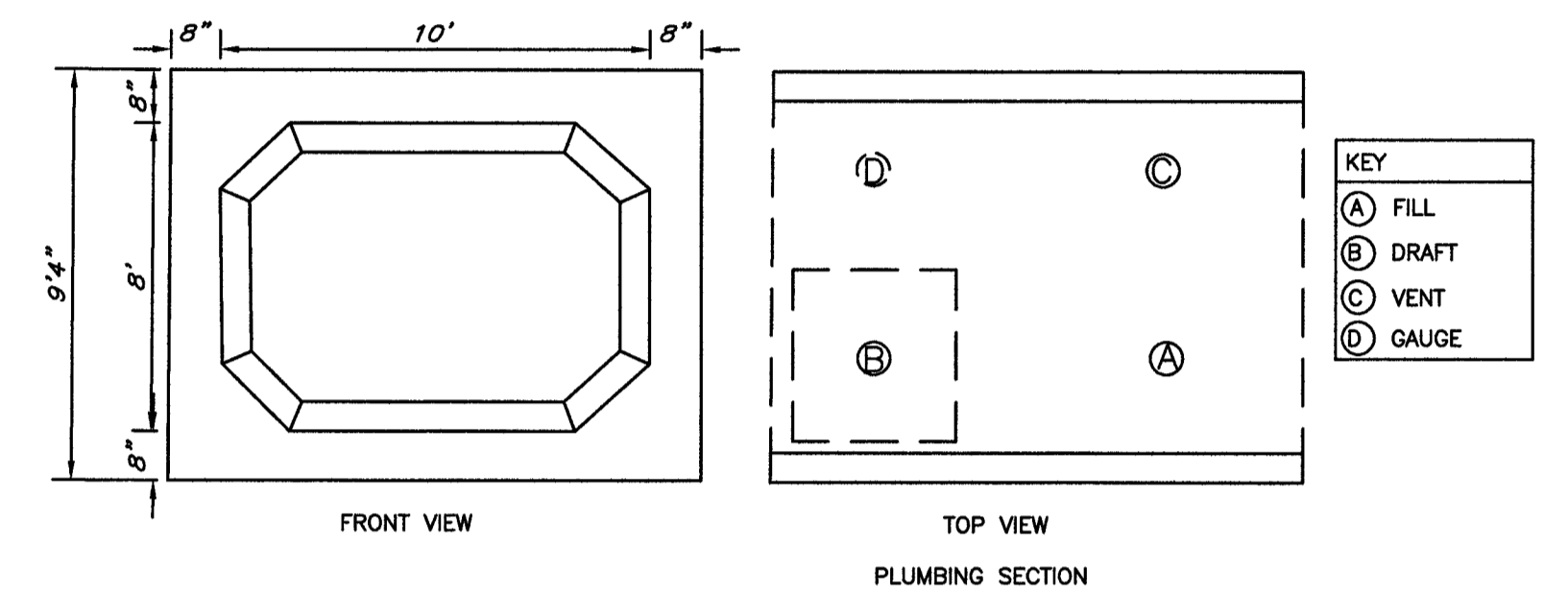
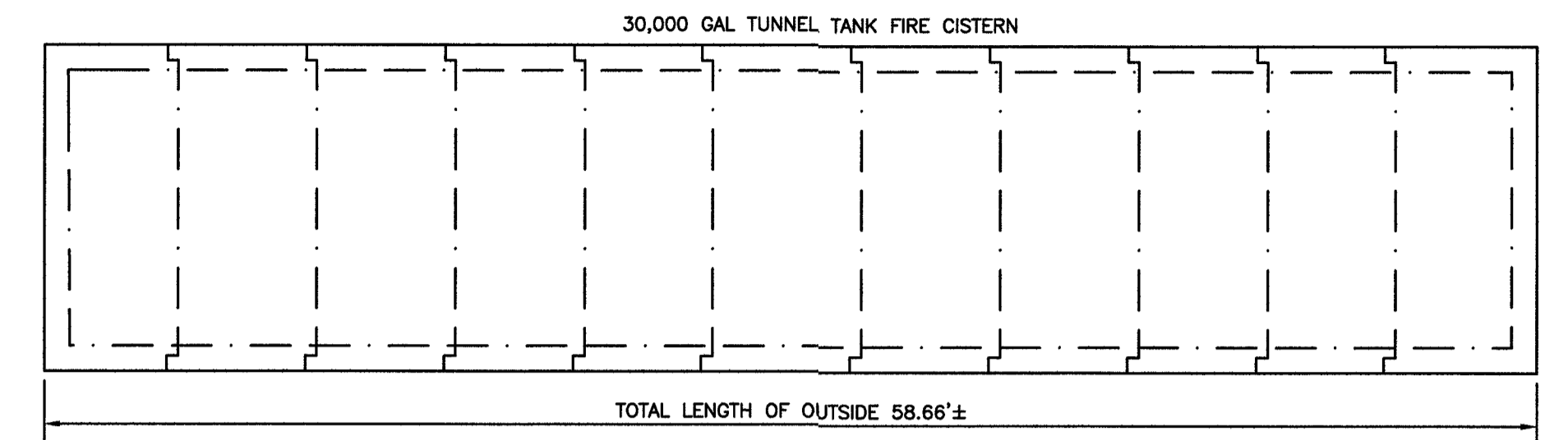
2 RISER CLAMP DETAIL
 S3.0 NOT TO SCALE



3 ANTI VORTEX PLATE DETAIL
 S3.0 NOT TO SCALE

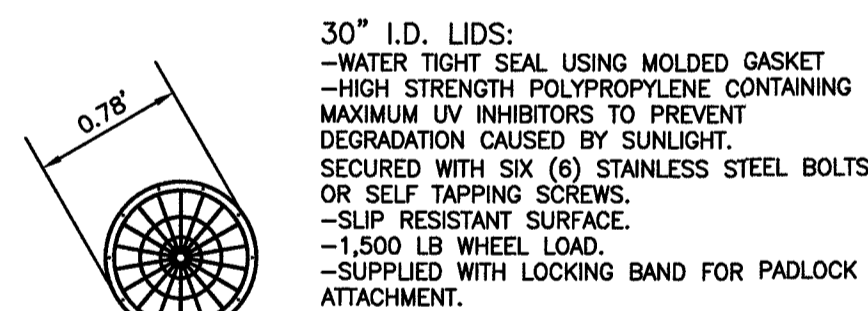


SIDE VIEW PLUMBING SECTION

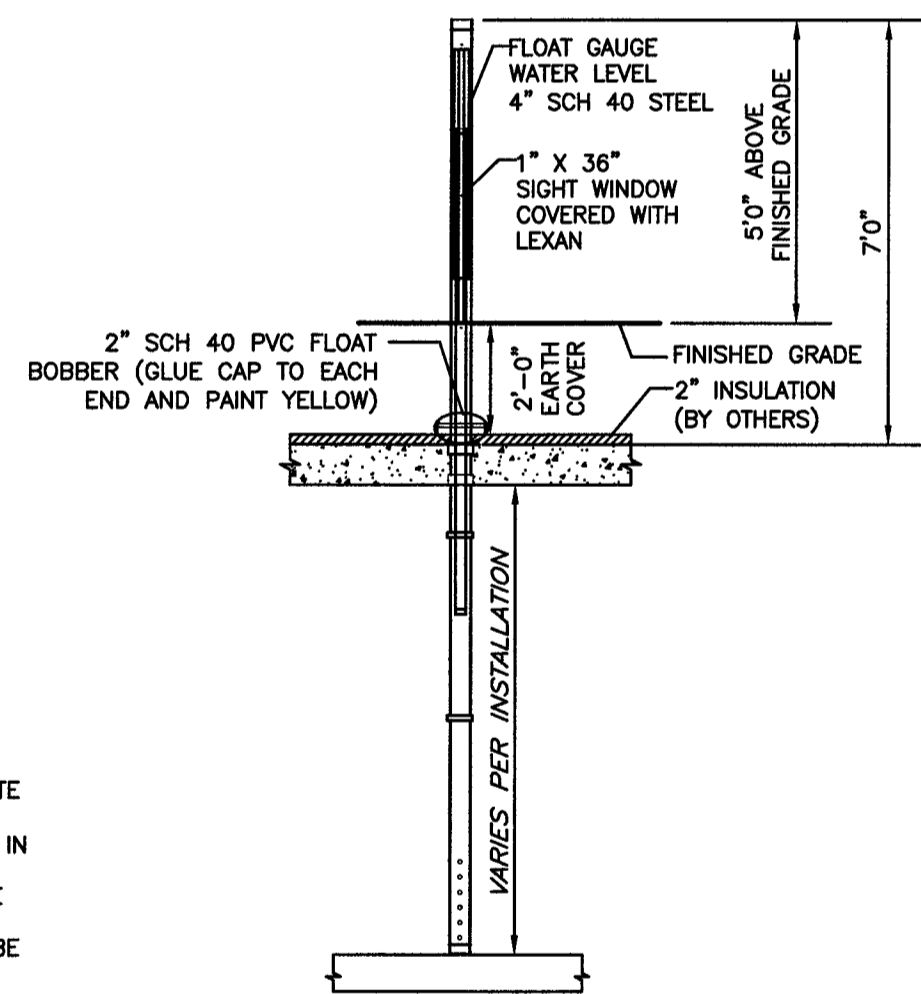


FOUNDATION & BACKFILL NOTES:

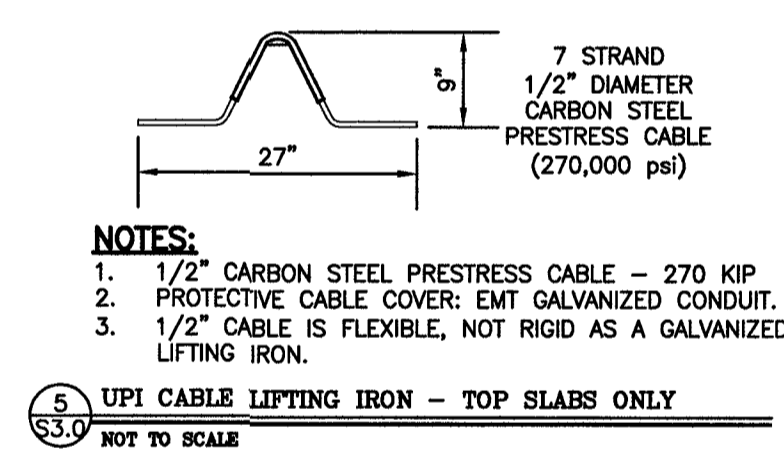
- FOUNDATION MATERIAL SHALL BE 3/4" CRUSHED STONE, MINIMUM 12" THICK.
- 1 1/2" BANK RUN GRAVEL SHALL BE USED FOR BACKFILL OPERATIONS SURROUNDING TANK. BACKFILL SHALL BE PLACED IN MAXIMUM 12" LOOSE LIFTS. IT SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY BY MODIFIED PROCTOR METHOD (ASTM 1557). ALL COMPACTION SHALL BE DONE WITH HAND-OPERATED COMPACTION EQUIPMENT.
- TANK EXCAVATION SHALL BE KEPT DEWATERED THROUGHOUT INSTALLATION AND BACKFILL OPERATIONS.
- ALL AREAS BETWEEN TANKS SHALL BE FILLED TO A MINIMUM OF 12" ABOVE CROWN OF INTERCONNECTION PIPE WITH 3/4" CRUSHED STONE. 1 1/2" BANK RUN GRAVEL MAY BE USED ABOVE THIS ELEVATION, PROVIDED THAT PROPER COMPACTION AS STATED IN NOTE 2 ABOVE CAN BE ACHIEVED.
- ALL BACKFILL MATERIAL BETWEEN TANKS SHALL BE PLACED IN 12" LIFTS AT THE SAME TIME AS THE MATERIAL SURROUND THE TANKS.



8 EZ SET TANK RISER DETAIL
 S3.0 NOT TO SCALE



4 WATER LEVEL FLOAT INDICATOR DETAIL
 S3.0 NOT TO SCALE

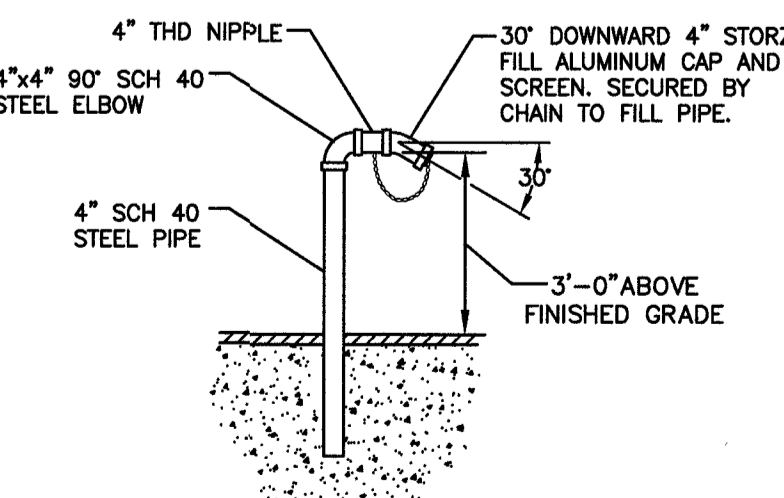


5 UPI CABLE LIFTING IRON - TOP SLABS ONLY
 S3.0 NOT TO SCALE

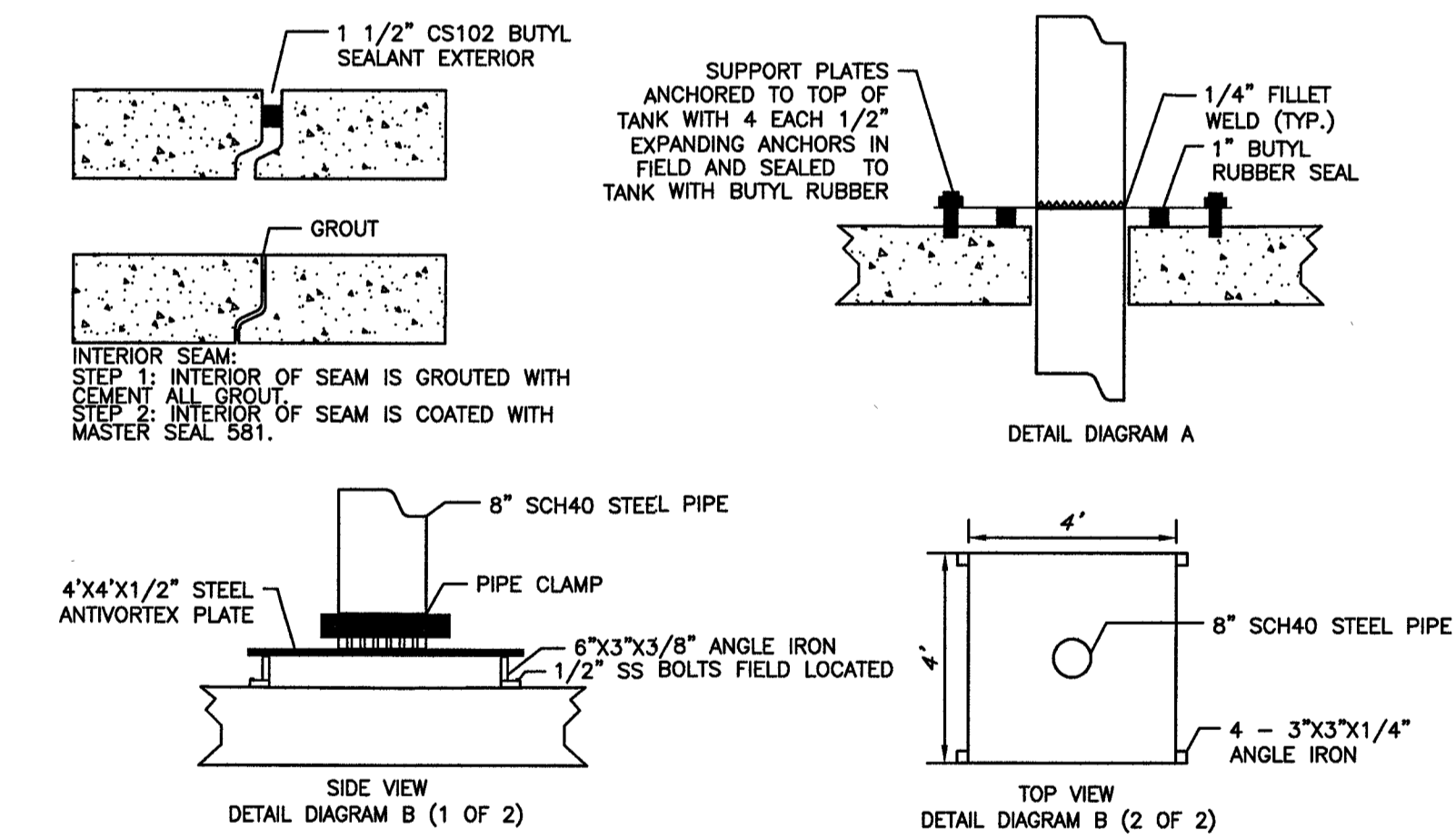
Product Code	SLAB Min. 90°	A - Anchor SWL AT 90° TENSION	SWL AT 90°/SHEAR	Edge Distance
KA14	4	3,500	5,400	24"
SCA14	5	5,500	8,500	28"
SCA18	5	6,000	9,300	30"
GA14	6	6,500	10,100	34"
GA18	6	7,500	11,600	35"
8A18	8	13,000	20,000	46"

Note: Safe working Load provides a factor of safety of approximately 4:1 based on a minimum concrete strength of 4,000 psi.
 For use as Pulling Iron load may be increased by 33% with 3 to 1 Safety Factor.

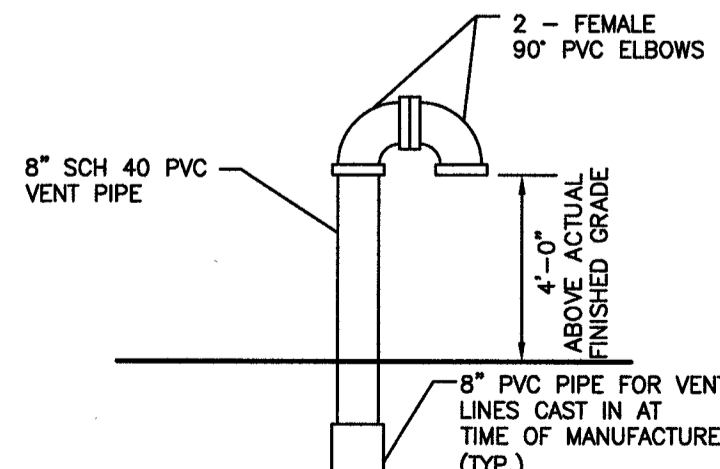
6 CONAC CORPORATION A ANCHOR - BASE SLABS ONLY
 S3.0 NOT TO SCALE



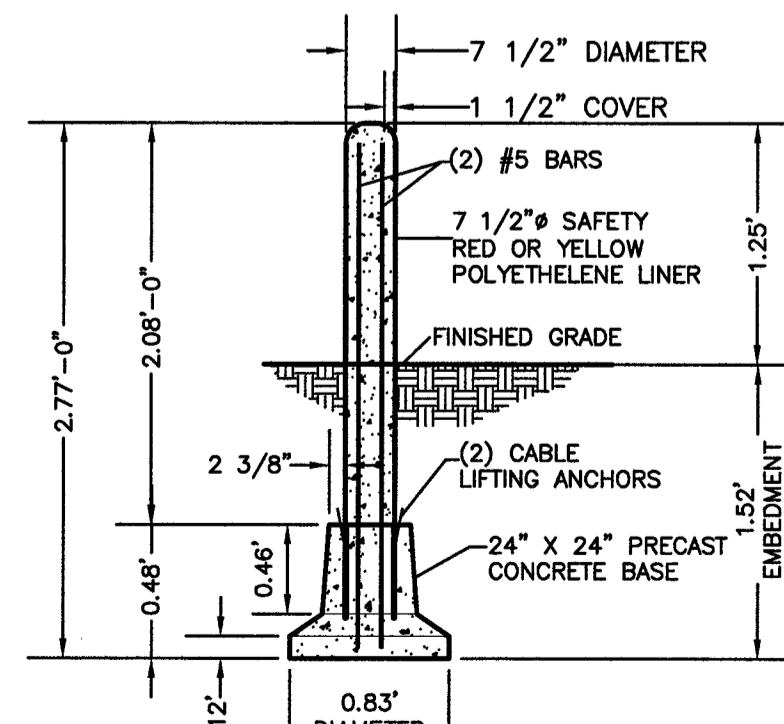
9 FILL LINE ASSEMBLY DETAIL
 S3.0 NOT TO SCALE



7 CONSEAL JOINT SEALANTS DETAIL
 S3.0 NOT TO SCALE



10 VENT PIPE ASSEMBLY DETAIL
 S3.0 NOT TO SCALE



11 TYPICAL POLY-SHEATHED PRECAST BOLLARD
 S3.0 NOT TO SCALE

APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____

SIGNATURE DATE: _____

SIGNATURE DATE: _____

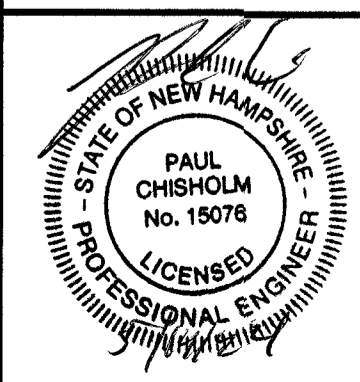
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

**CONSTRUCTION DETAILS
 BARRETT HILL SUBDIVISION**

MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

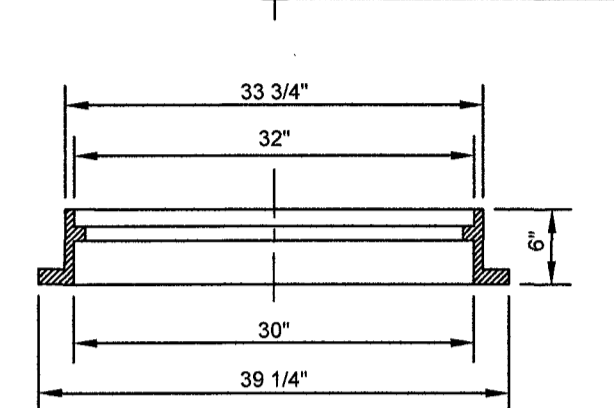
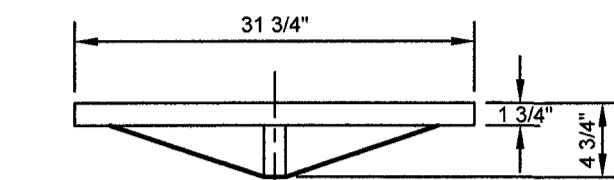
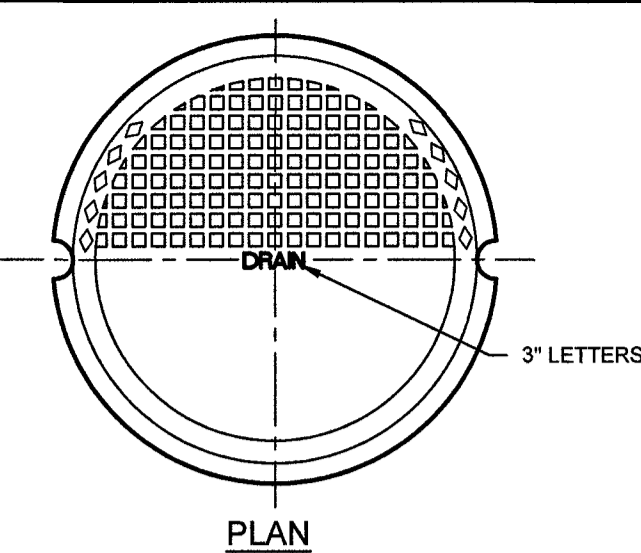
OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
 H.C.R.D. BK. 9700 PG. 287

KMA KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881



REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
 PROJECT NO: 23-0414-1 SHEET: 18 OF 24



DRAIN MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE
(MARCH 2008)

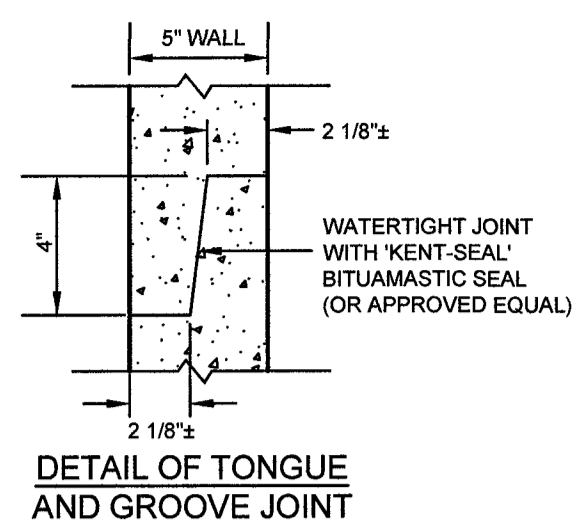
NOTES:
NEW HAMPSHIRE MAINTAINS A CLEAR OPENING DESIGNATION OF 30" FOR ITS MANHOLE CASTINGS.

FEATURES:

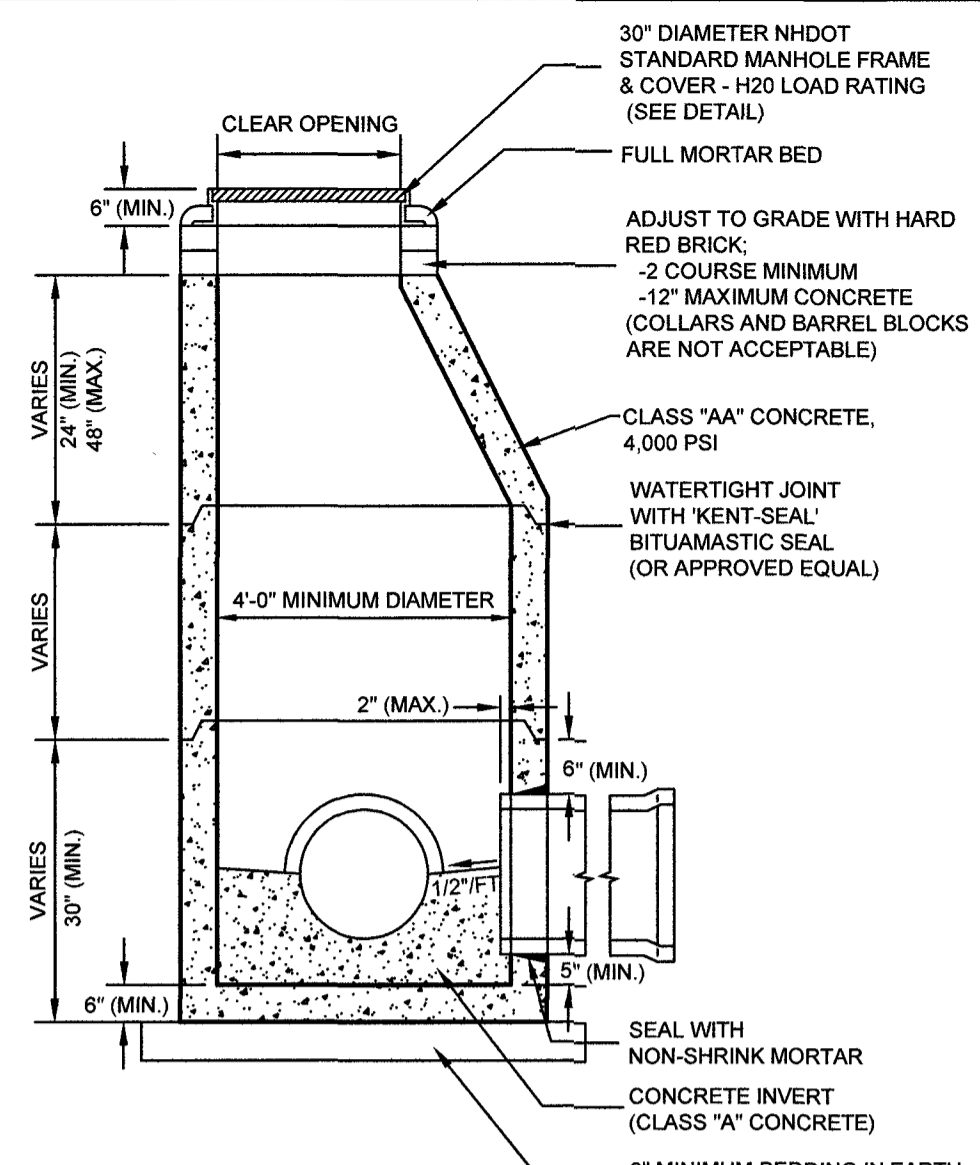
- 3" LETTERING
- COVERS AVAILABLE PLAIN OR MARKED SEWER, DRAIN OR WATER
- NONROCKING COVER
- DIAMOND SURFACE DESIGN

SPECIFICATIONS:

- FULLY MACHINED FRAME AND COVER
- H-20 LOAD RATED
- GRAY CAST IRON MEETS ASTM A48 CLASS 30



DETAIL OF TONGUE AND GROOVE JOINT



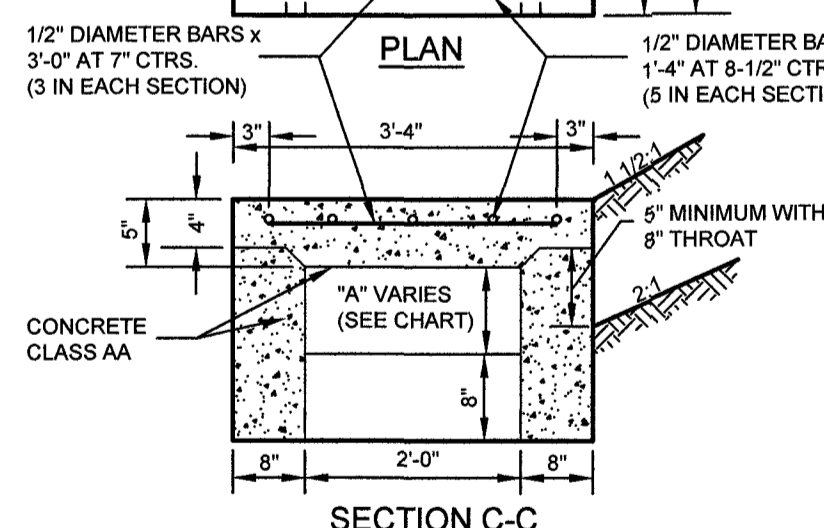
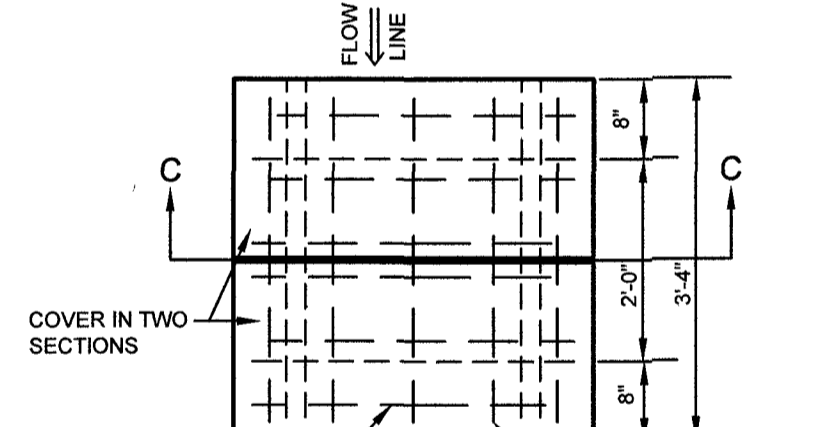
NOTES:

- STEPS ARE NOT ALLOWED.
- ALL SECTIONS SHALL BE CONCRETE CLASS AA (4,000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER L.F. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE WALL.
- THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER L.F.
- MATERIALS AND CONSTRUCTION TO NHDOT STANDARDS.

PRECAST REINFORCED DRAIN MANHOLE DETAIL
NOT TO SCALE
(MARCH 2008)

PIPE DIAMETER (MILLIMETERS)	THROAT DEPTH "A" (MILLIMETERS)	
	ONE THROAT	TWO THROAT
300 (12")	200 (8")	200 (8")
350 (14")	200 (8")	200 (8")
375 (15")	200 (8")	200 (8")
400 (16")	225 (9")	200 (8")
450 (18")	400 (16")	200 (8")
500 (20")	400 (16")	225 (9")
600 (24")	450 (18")	400 (16")

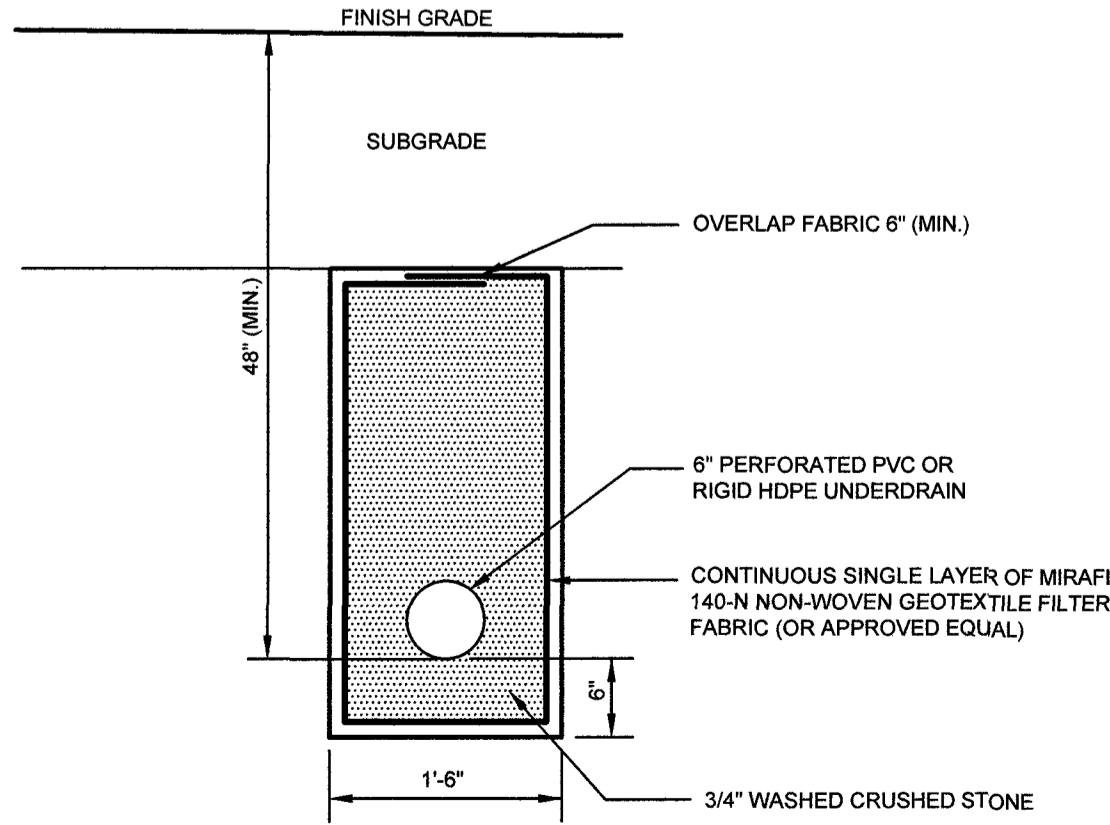
* PIPE DIAMETER IN INCHES ARE ROUNDED TO NEXT HIGHER WHOLE NUMBER



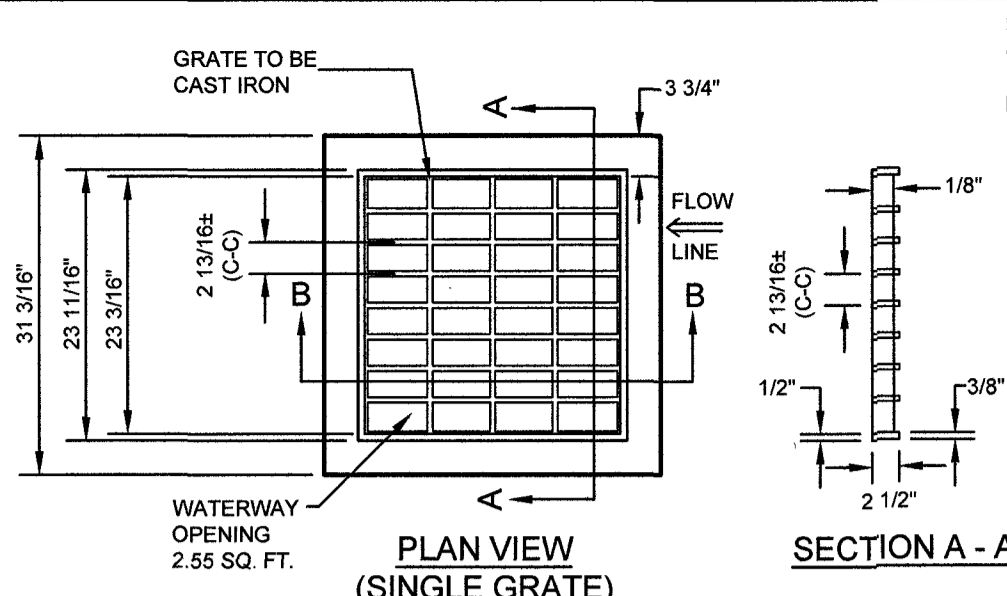
NOTES:

- TO BE USED IN BERM DITCHES AND AT LOCATIONS INACCESSIBLE TO VEHICULAR TRAFFIC.
- IN A SERIES OF CONNECTING CATCH BASINS OR DROP INLETS, THE OUTLET PIPES MAY INCREASE IN DIAMETER, BUT THE SURFACE THROAT OPENINGS ARE NOT AFFECTED.

TYPE C DROP INLET
NOT TO SCALE
(MARCH 2008)



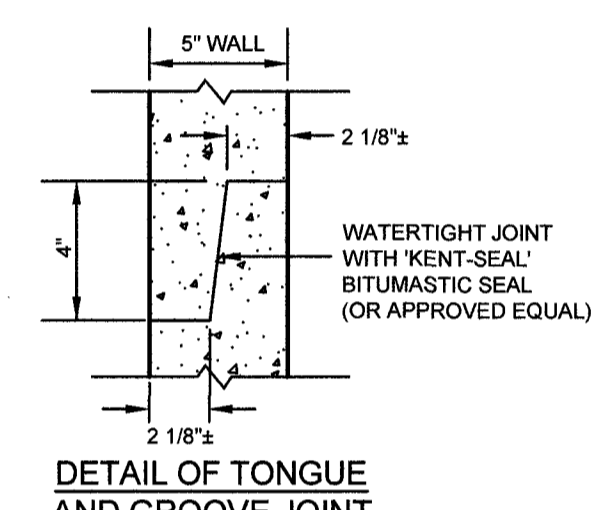
PIPE UNDERDRAIN
NOT TO SCALE
(MARCH 2008)



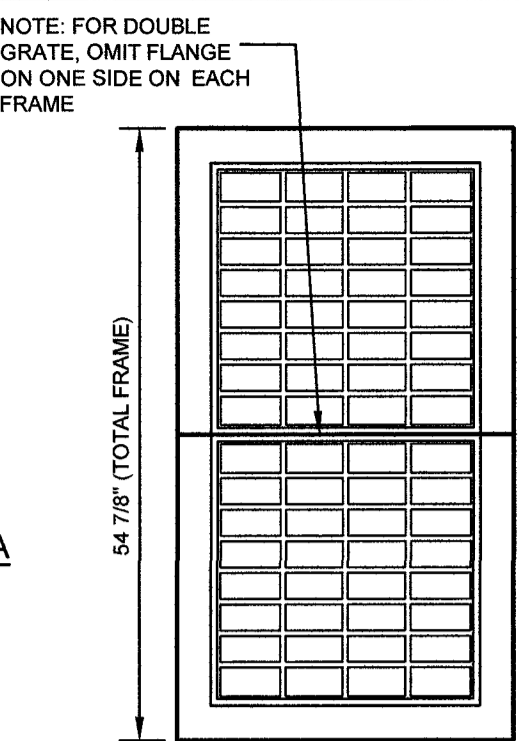
PLAN VIEW (SINGLE GRATE)



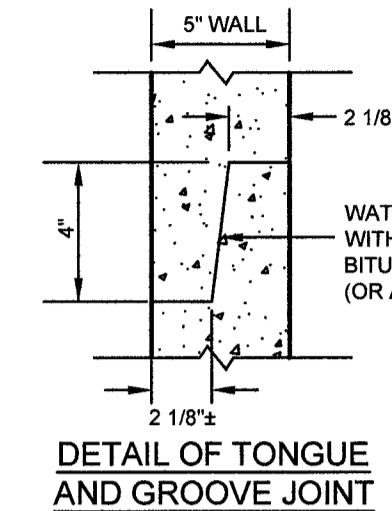
TYPE B FRAME & GRATE DETAIL
NOT TO SCALE
(MARCH 2008)



DETAIL OF TONGUE AND GROOVE JOINT



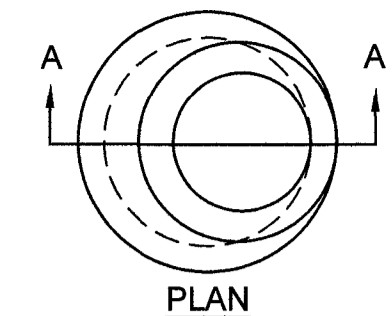
PLAN VIEW (DOUBLE GRATE)



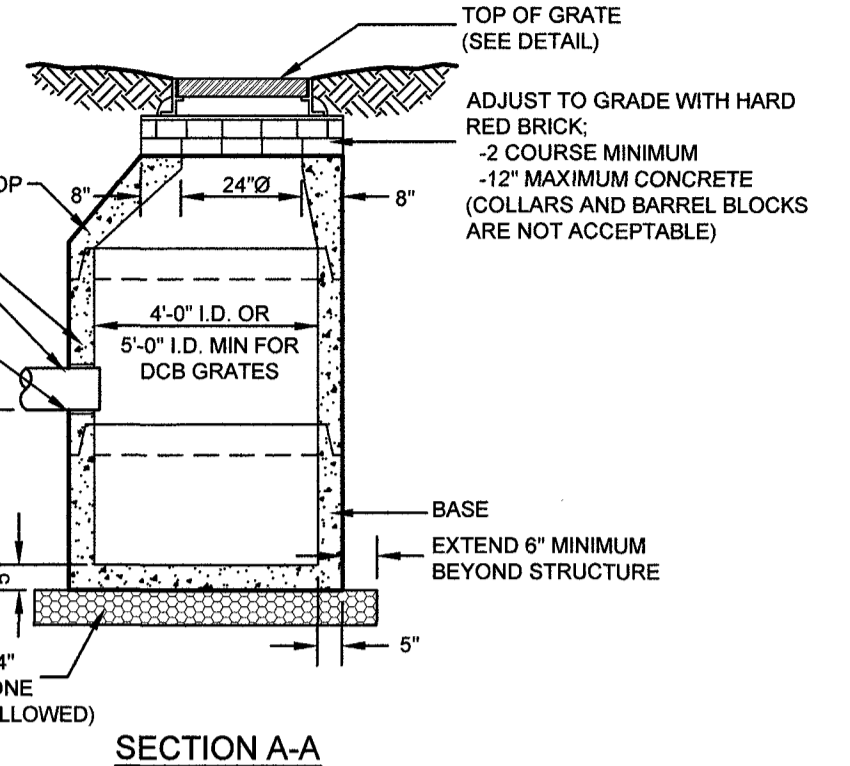
DETAIL OF TONGUE AND GROOVE JOINT

NOTES:

- ALL SECTIONS SHALL BE CONCRETE CLASS AA (4000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCH PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
- THE TONGUE OR GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCH PER LINEAR FOOT.
- RISER OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
- EXCAVATION PER FOOT OF DEPTH = 1.358 C.Y.



PLAN

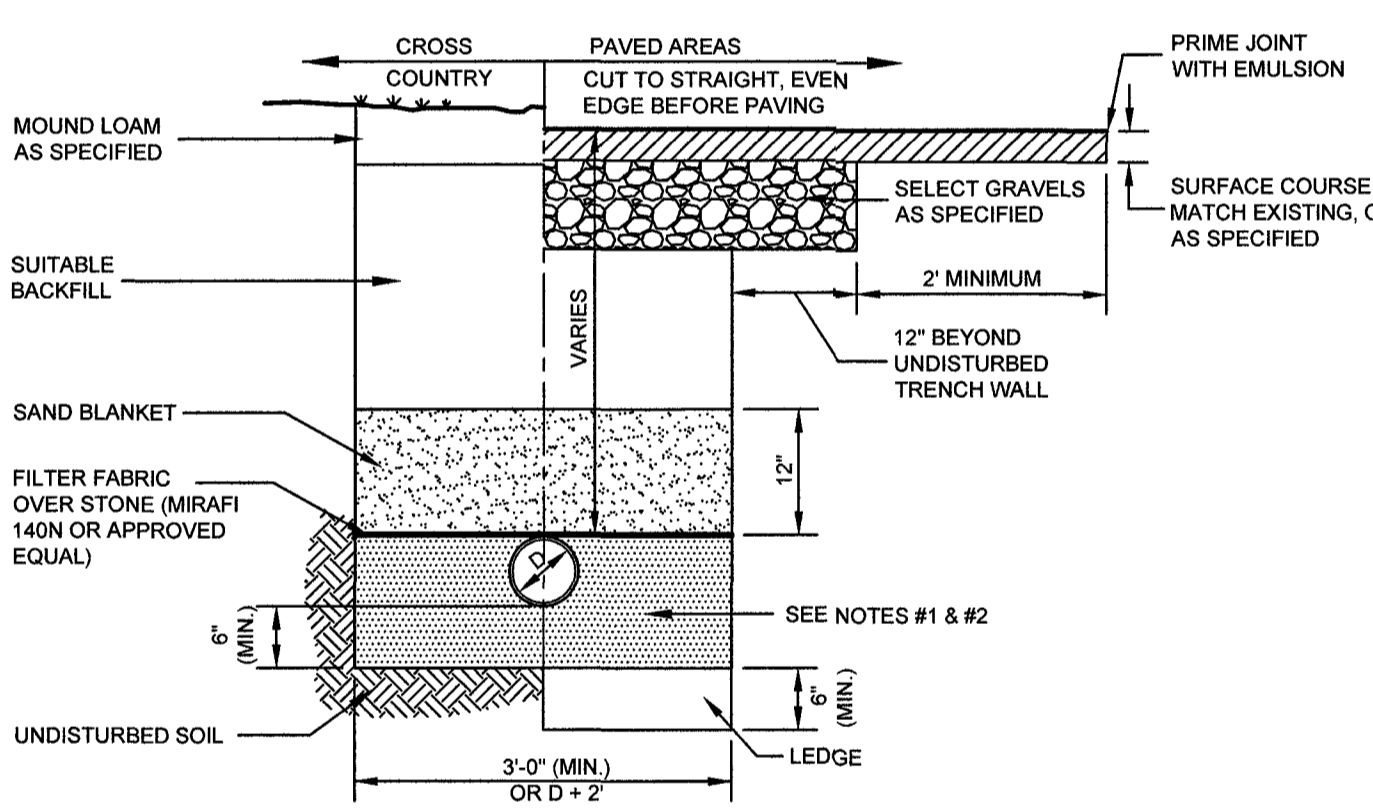


SECTION A-A

PRECAST REINFORCED CATCH BASIN
NOT TO SCALE
(MARCH 2008)

CONSTRUCTION NOTES:

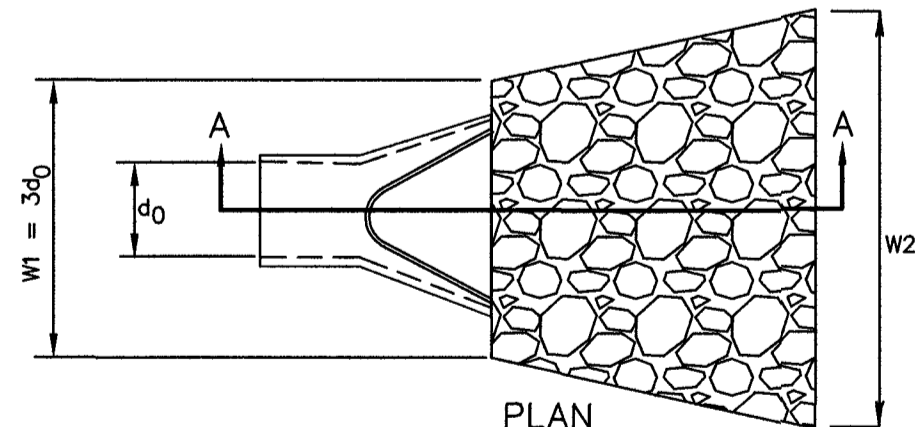
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT THAT A DISCREPANCY FROM THE INFORMATION SHOWN ON THESE PLANS IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO RESOLVE THE SITUATION.
- PRIOR TO CONSTRUCTION, CONTACT DIG SAFE CENTER, TOLL FREE 811. NEW HAMPSHIRE STATE LAW REQUIRES NOTIFICATION AT LEAST THREE BUSINESS DAYS BEFORE DIGGING OPERATIONS START. IF AN EMERGENCY, CALL IMMEDIATELY.
- ALL WORKMANSHIP AND MATERIALS INCORPORATED INTO THE CONSTRUCTION OF ROADS AND DRAINAGE SHOWN HEREON SHALL CONFORM WITH THE STANDARDS OF THE TOWN OF HUDSON ENGINEERING DEPARTMENT AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PUBLISHED AND AMENDED BY THE N.H.D.O.T.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES, AS SHOWN IN THESE PLANS, THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THE EROSION CONTROL MEASURES PROVIDED SERVE AS A GUIDE ONLY AND SHALL BE CONSIDERED A MINIMUM STANDARD. CONTRACTOR SHALL IMPLEMENT ANY AND ALL ADDITIONAL MEASURES AS FIELD CONDITIONS DICTATE OR AS REQUIRED BY LOCAL OR STATE GUIDELINES. ALL EROSION CONTROL SHALL BE MAINTAINED AND/OR REPLACED IF DAMAGED.
- THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES AND PONDS PRIOR TO DIRECTING STORM WATER RUN-OFF TO THEM.
- SILT SOXX TO BE CONSTRUCTED AS IDENTIFIED ON THIS PLAN. SILT SOXX BARRIERS TO BE CHECKED WEEKLY AND/OR AFTER LARGE STORM EVENTS. ALL SILT MATERIAL TO BE REMOVED. ANY DAMAGED SILT SOXX SHALL BE REINSTALLED IMMEDIATELY.
- SLOPE STABILIZATION METHODS SHALL BE PROVIDED IN ACCORDANCE WITH THE NHDES SITE SPECIFIC PERMIT OR AS FIELD CONDITIONS DICTATE. SLOPE STABILIZATION SHALL BE PROVIDED ON ALL SLOPES 3:1 AND GREATER AS A MINIMUM STANDARD. PROVIDE SLOPE STABILIZATION ON SLOPES LESS THAN 3:1 IF WARRANTED, AS FIELD CONDITIONS DICTATE.
- THE DRAINAGE DESIGN AND EROSION CONTROL MEASURES AS PROPOSED MEET ALL TOWN AND STATE REQUIREMENTS AND BEST MANAGEMENT PRACTICES AS PROMULGATED BY THE NHDES.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- TOPSOIL SHALL BE REMOVED FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF GRADING, UNLESS OTHERWISE DIRECTED. THE TOPSOIL SHALL BE STOCKPILED AND USED IN ITS ENTIRETY. STOCKPILE SOIL IN ACCORDANCE WITH NHDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
- UNSUITABLE MATERIAL, ROOTS, AND STUMPS WITHIN THE LIMITS OF WORK SHALL BE REMOVED FROM THE SITE AS ORDERED. DISPOSAL OF SUCH MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES AS APPLICABLE OR AS DIRECTED.
- THE SUBGRADE SHALL BE SCARIFIED TO ASSURE THAT ALL BOULDERS AND COBBLES OVER 6" ARE REMOVED PRIOR TO SHAPE, GRADE, AND COMPACTION ACTIVITIES.
- ALL WORKMANSHIP AND MATERIALS INCORPORATED INTO THE CONSTRUCTION OF ELECTRIC LINES SHALL CONFORM WITH THE STANDARDS OF THE OWNING UTILITY COMPANY.
- ALL WORKMANSHIP AND MATERIALS INCORPORATED INTO THE CONSTRUCTION OF TELEPHONE LINES SHALL CONFORM WITH THE STANDARDS OF THE OWNING TELEPHONE COMPANY.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND WITHIN THE CONSTRUCTION AREA. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES AND ARRANGE FOR ALL INSPECTIONS.
- UTILITY STUB CONNECTIONS SHOWN TO PROPOSED LOTS ARE APPROXIMATE AND INTENDED TO ILLUSTRATE FEASIBILITY OF CONSTRUCTING CONNECTIONS. THE CONTRACTOR SHALL PROVIDE SERVICE STUBS AS DIRECTED BY THE OWNING UTILITY COMPANY AND LOCAL AUTHORITY.
- CONTRACTOR SHALL COORDINATE WITH PHONE, CABLE, AND ELECTRIC COMPANIES FOR POTENTIAL NEED OF INDIVIDUAL SECTORS AT EACH LOT SERVICE CONNECTION.
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- THE CONTRACTOR SHALL VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.



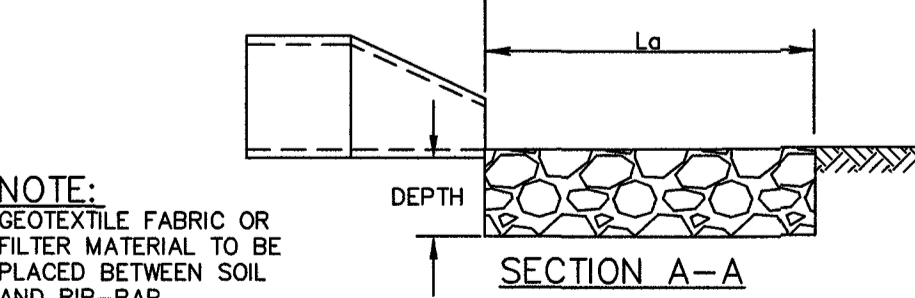
NOTES:

- THOROUGHLY COMPACTED SCREENED GRAVEL FOR RCP PIPE. SCREENED GRAVEL TO EXTEND TO SELECT FILL LINE.
- FOR HDPE OR PVC PIPE, BEDDING SHALL BE 3/4" STONE TO THE TOP OF THE PIPE.

STORM DRAINAGE TRENCH DETAIL
NOT TO SCALE
(MARCH 2008)



PLAN



SECTION A-A

PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL
NOT TO SCALE

LOCATION	La	W1	W2	d50	DEPTH
HW#2	26'	5'	15'	6"	15"
HW#13	19'	5'	23'	6"	15"
HW#26	13'	4'	17'	4"	10"

PERCENT OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (RELATIVE TO 200)
100%	(1.5 TO 2.0) x d50
85%	(1.3 TO 1.8) x d50
60%	(1.0 TO 1.5) x d50
15%	(0.3 TO 0.5) x d50

CONSTRUCTION SPECIFICATIONS:

- THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- THE ROCK OR GRAVEL USED FOR FILTER OR RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- 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.
- 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.

MAINTENANCE:

THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR RAIN EVENT. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DESIRS AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

SIGNATURE DATE: _____

SIGNATURE DATE: _____

SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

CONSTRUCTION DETAILS
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881



REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023
PROJECT NO: 23-0414-1
SCALE: AS SHOWN
SHEET: 19 OF 24

PURPOSE:

TO ESTABLISH AND MAINTAIN PERMANENT AND TEMPORARY TURF AREAS, RESTORE GROWTH TO EXISTING TURF AREAS DISTURBED DURING CONSTRUCTION AND CONTROL SOIL EROSION.

PREPARATION AND EXECUTION:

- 1. RAKE THE SUBGRADE OF ALL AREAS TO BE LOAMED AND SEEDED TO REMOVE RUBBISH, STICKS, ROOTS AND STONES LARGER THAN 1 INCH.
2. PLACE LOAM OVER AREAS TO BE SEEDED AND SPREAD.
3. FINE GRADE SURFACE AND SUPPLEMENT WITH SUITABLE LOAM WHERE NEEDED TO CREATE A UNIFORM SURFACE ACCORDING TO THE FINISH GRADES INDICATED. TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED. NO LOAM SHALL BE SPREAD IF THE SUBGRADE IS EXCESSIVELY WET OR FROZEN.
4. IF THE PH OF THE SOIL NEEDS TO BE RAISED, APPLY LIME EVENLY OVER LOAM SURFACE AND THOROUGHLY INCORPORATE LIME INTO THE LOAM BY HEAVY RAKING TO AT LEAST ONE-HALF THE DEPTH OF THE LOAM.
5. APPLY FERTILIZER AND MIX WITH THE UPPER 2 INCHES OF LOAM.
6. DETERMINE APPROPRIATE MIXTURE FOR AREA TO BE SEEDED BASED ON EXAMINATION OF PROJECT PLANS. UNIFORMLY SPREAD THE SEED BY BROADCASTING OR HYDROSEEDING. IF BROADCASTING, LIGHTLY RAKE INTO THE PREPARED SURFACE AND ROLL. IF HYDROSEEDING, USE 4 TIMES THE RECOMMENDED RATE OF INOCULANT. AFTER SEED IS SPREAD, WATER THOROUGHLY WITH A FINE SPRAY.
7. SEEDING AND INITIAL FERTILIZING SHALL BE DONE BETWEEN APRIL 1 AND JUNE 1 OR BETWEEN AUGUST 15 AND OCTOBER 14, OR AS PERMITTED. SEEDING SHALL NOT BE DONE DURING WINDY WEATHER OR WHEN THE GROUND IS FROZEN, EXCESSIVELY WET OR OTHERWISE UNTILLABLE. WITHIN 24 HOURS AFTER SEEDING OPERATION, UNIFORMLY MULCH THE AREA WITH STRAW. ANCHOR MULCH ON ALL SLOPES EXCEEDING 3:1 USING MULCH NETTING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
8. PROTECT AND PREVENT AGAINST WASHOUTS, ANY WASHOUTS WHICH OCCUR SHALL BE PROMPTLY REGRADED AND RESEDED.
9. WHEN IT IS IMPRACTICAL TO ESTABLISH PERMANENT GROWTH ON DISTURBED EARTH BY OCTOBER 14, A TEMPORARY SEED MIXTURE SHALL BE USED. WHEN TEMPORARY SEEDING CANNOT ESTABLISH VISIBLE GROWTH, THE DISTURBED AREA SHALL BE COVERED WITH SIX INCHES OF MULCH FOR THE WINTER.

MAINTENANCE:

ALL SEEDED AREAS SHALL BE KEPT WATERED AND IN GOOD CONDITION. RESEED AS NECESSARY TO ESTABLISH HEALTHY UNIFORM GROWTH OVER THE ENTIRE SEEDED AREA. MAINTAIN SEEDED AREAS IN AN APPROVED CONDITION UNTIL FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE REPAIRS FOR DAMAGE CAUSED BY EROSION.

APPLICATION RATES:

- 1. LOAM SHALL BE APPLIED AT A MINIMUM COMPACTED THICKNESS OF 4 INCHES.
2. LIME SHALL BE APPLIED WHEN NECESSARY TO RAISE THE PH OF THE SOIL AND APPLIED AT ONE OF THE FOLLOWING RATES:

Table with 3 columns: EXISTING SOIL PH, TONS/ACRE, POUNDS/CUBIC YARD. Rows for pH ranges 4.0-4.4, 4.5-4.9, 5.0-5.4.

FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:

Table with 3 columns: INITIAL APPLICATION, POUNDS/1,000 SF, MEASUREMENT FACTOR. Rows for dates 10-10-10, 15-15-15, 19-19-19.

Table with 3 columns: REFERTILIZATION, POUNDS/1,000 SF, MEASUREMENT FACTOR. Rows for dates 10-3-6, 12-2-8, 12-4-8.

MULCH SHALL BE APPLIED AT A RATE OF 13 CUBIC YARDS PER 1,000 S.F. OF LANDSCAPE BED.

MATERIALS:

- 1. LOAM SHALL CONSIST OF LOOSE, FRIABLE TOPSOIL WITH NO ADMIXTURE OF REFUSE OR MATERIAL TOXIC TO PLANT GROWTH. LOAM SHALL BE FREE OF ALL PARTS OF PROHIBITED INVASIVE PLANTS AND BE GENERALLY FREE OF STONES, LUMPS, STUMPS AND SIMILAR OBJECTS LARGER THAN 2 INCHES IN GREATEST DIAMETER, SUBSOIL, ROOTS AND WEEDS. THE MINIMUM AND MAXIMUM PH VALUE SHALL BE FROM 5.5 TO 7.6.
2. LIME SHALL BE A CALCIUM OR DOLOMITIC GROUND AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF EITHER CALCIUM OR MAGNESIUM CARBONATE OR BOTH. IT SHALL CONFORM TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS AND SHALL COMPLY WITH ALL STATE AND FEDERAL RULES AND REGULATIONS.
3. FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE FERTILIZER CONFORMING TO ALL STATE AND FEDERAL RULES AND REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. EXCEPT AS PERMITTED, THE ANALYSIS RATIO SHALL BE 1:1:1 FOR INITIAL APPLICATION AND 3:1:2 FOR REFERTILIZATION APPLICATION.
4. GRASS SEED SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE AGRICULTURAL AND VEGETABLE SEED LAWS WHICH INCLUDE NO "PRIMARY NOXIOUS WEED SEEDS."
5. SEED MIXTURE FOR LAWN AREAS SHALL CONSIST OF THE FOLLOWING:

Table with 4 columns: KIND OF SEED, MINIMUM PURITY (%), MINIMUM GERMANATION (%), POUNDS/ACRE (TOTAL 120 POUNDS). Rows for Creeping Red Fescue, Perennial Ryegrass, Kentucky Bluegrass, Redtop.

SEED MIXTURE FOR SLOPE AREAS SHALL CONSIST OF THE FOLLOWING:

Table with 4 columns: KIND OF SEED, MINIMUM PURITY (%), MINIMUM GERMANATION (%), POUNDS/ACRE (TOTAL 95 POUNDS). Rows for Creeping Red Fescue, Perennial Ryegrass, Redtop, Alsike Clover, Birdsfoot Trefoil, Lance-leaved Coreopsis, Oxeye Daisy, Black-eyed Susan, Wild Lupine.

WINTER CONSTRUCTION NOTES:

- 1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER SLOTTED TYP 300 3/4 OR, IF CONSTRUCTION TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.
4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED.
B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:

SIGNATURE DATE:

SIGNATURE DATE:

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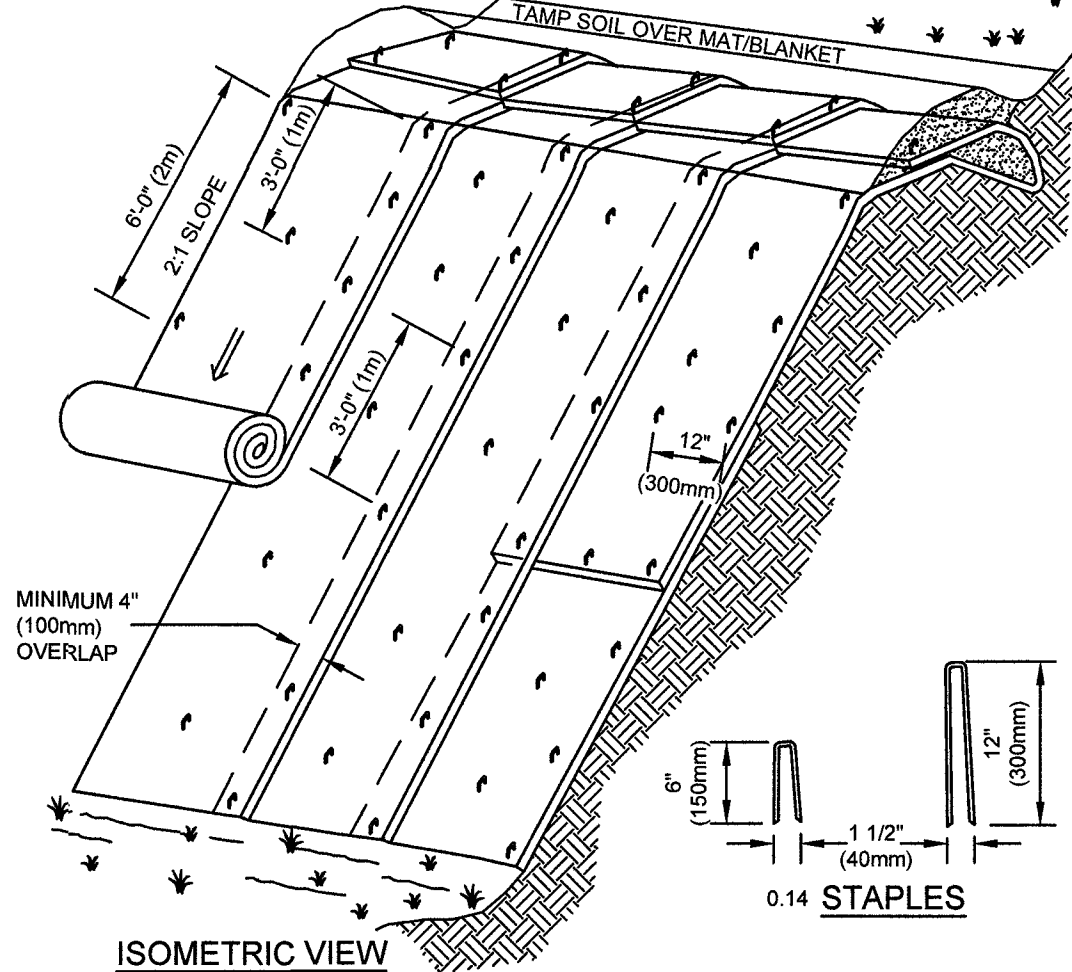
- 7. TEMPORARY SEEDING MIXTURE SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1,000 SF AND SHALL BE AN APPROVED CONSERVATION MIX OR CONSIST OF THE FOLLOWING:
15% BLACKWELL OR SHELTER SWITCHGRASS
30% NIAGARA OR KAW BIG BLUESTEM
30% CAMPER OR BLAZE LITTLESTEM
15% NE-27 OR BLAZE SAND LOVEGRASS
10% VIKING BIRDSFOOT TREFLOIL
INOCULUM SPECIFIC TO BIRDSFOOT TREFLOIL MUST BE USED WITH THIS MIXTURE. IF SEEDING BY HAND, A STICKING AGENT SHALL BE USED. IF SEEDING WITH A HYDROSEEDER, USE FOUR TIMES THE RECOMMENDED AMOUNT OF INOCULUM.

- 8. SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS, INCLUDING DETENTION BASINS AND VEGETATED TREATMENT SWALES, SHALL BE APPLIED AT A RATE OF 70 POUNDS PER ACRE OR 1.6 POUNDS PER 1,000 SF, AND SHALL CONSIST OF THE FOLLOWING:
25% CREEPING RED FESCUE
15% SWITCH GRASS
15% FOX SEDGE
15% CREEPING BENTGRASS
10% FLATPEA
20% WILDFLOWER VARIETY
9. STRAW USED FOR MULCH SHALL CONSIST OF MOWED AND PROPERLY CURED GRASS OR LEGUME MOWINGS, FREE FROM WEEDS, TWIGS, DEBRIS, INVASIVE SPECIES OR OTHER DELETERIOUS MATERIAL AND ROT OR MOLD.

SOD SPECIFICATIONS:

- 1. SOD SHALL BE PROVIDED WITH A STRONG ROOT SYSTEM, NOT LESS THAN TWO YEARS OLD AND SHALL BE FREE OF ANY UNDESIRABLE NATIVE GRASSES OR WEEDS.
2. SOD SHALL BE MACHINE CUT TO A THICKNESS NOT LESS THAN 3/4", EXCLUDING THATCH, AND SHALL BE CAPABLE OF VIGOROUS GROWTH WHEN PLANTED.
3. SOD PADS SHALL BE OF UNIFORM SIZE AND COMPOSED OF AT LEAST TWO LOCAL GRASS VARIETIES.
4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS, DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. TAMP SOD TO ENSURE CONTACT WITH SOIL.
5. WATER WITHIN ONE HOUR OF PLANTING WITH A FINE SPRAY.

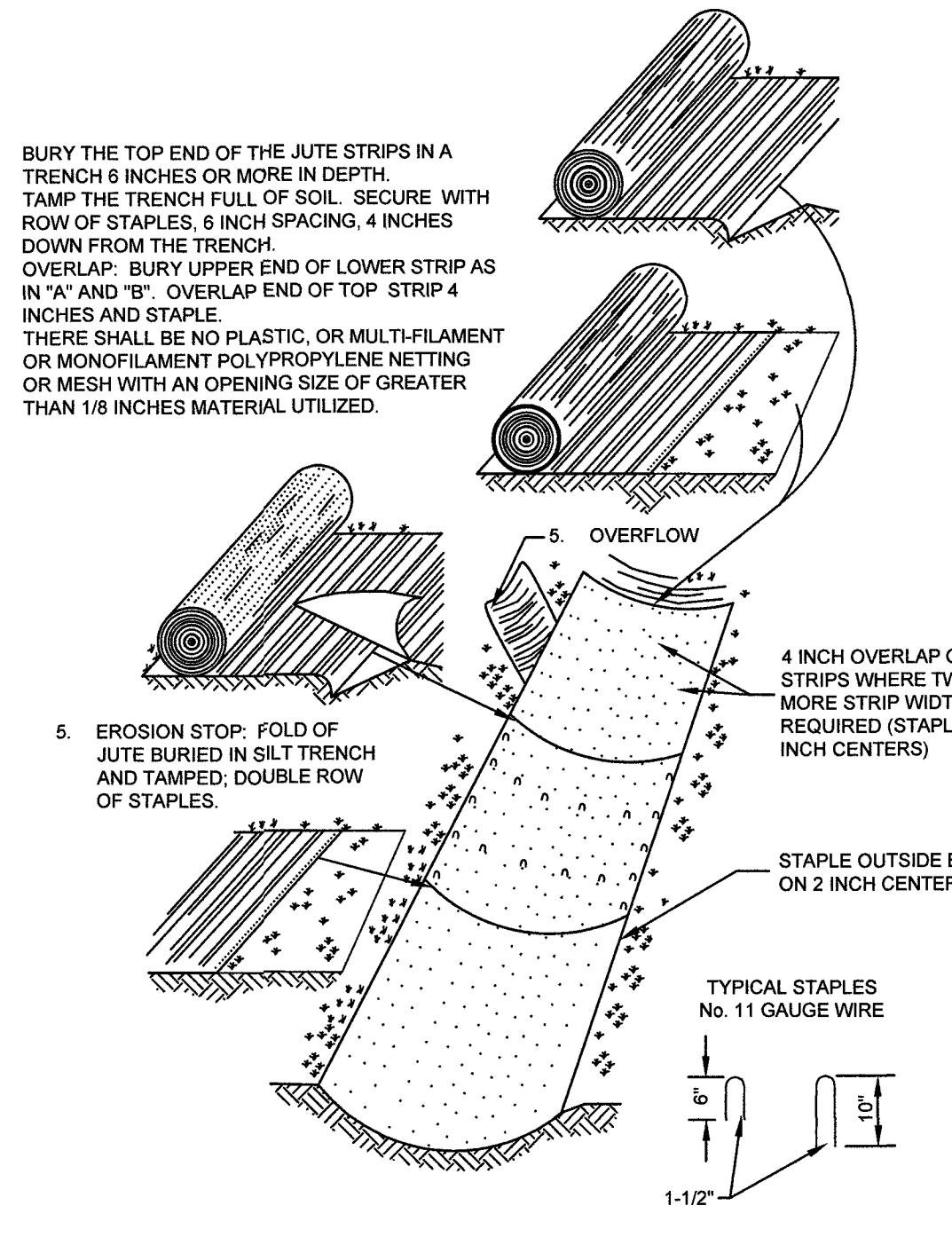
MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE AND SHALL BE DOUBLE NET STRAW BLANKETS BY NORTH AMERICAN GREEN OR APPROVED EQUAL.



- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. THERE SHALL BE NO PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED.

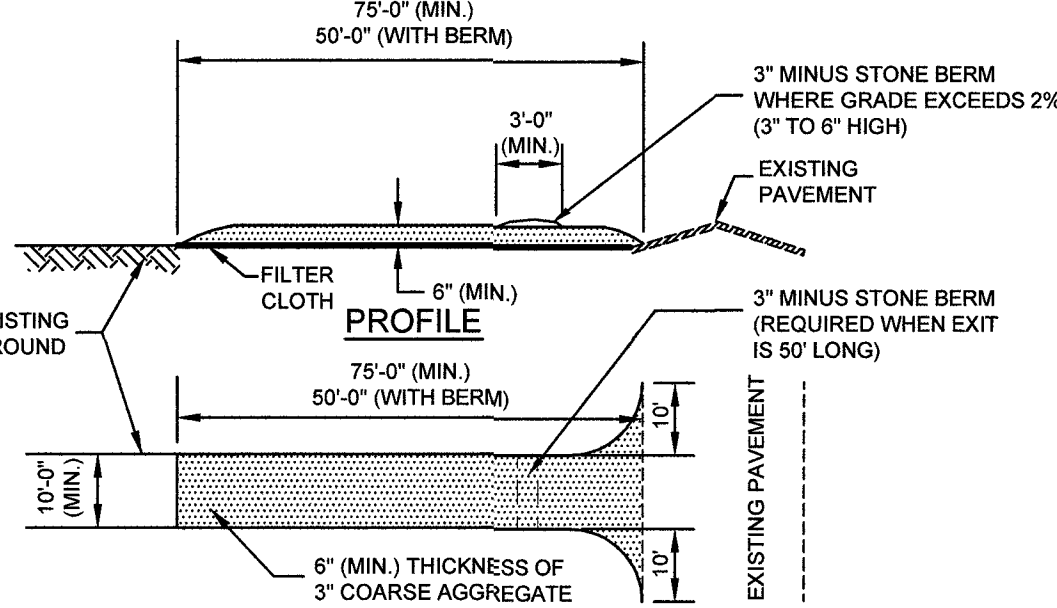
EROSION CONTROL BLANKETS - SLOPE INSTALLATION

NOT TO SCALE (AUGUST 2011)



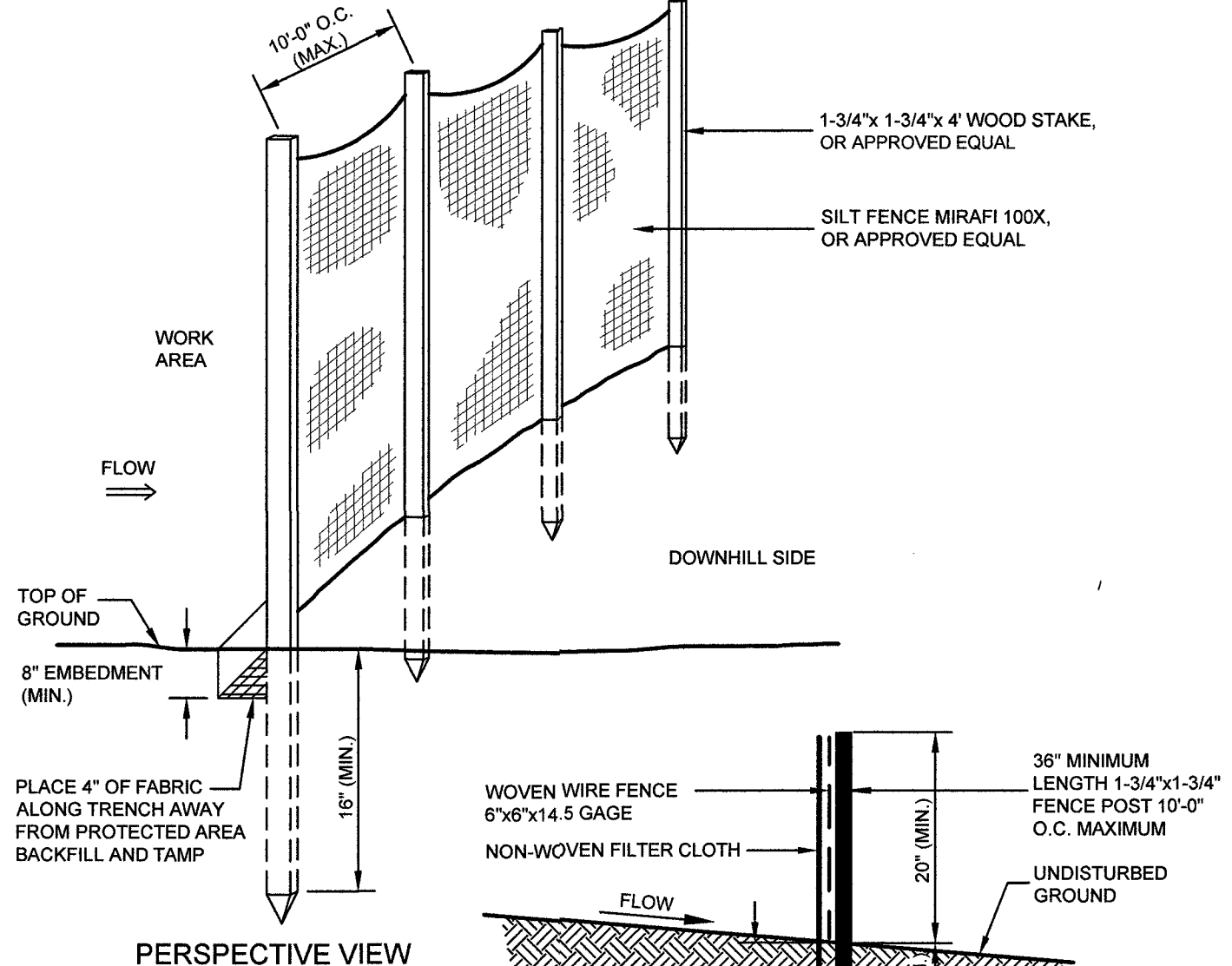
EROSION CONTROL BLANKETS - SWALE INSTALLATION

NOT TO SCALE



STABILIZED CONSTRUCTION EXIT DETAIL

NOT TO SCALE (APRIL 2018)



SILT FENCE DETAIL

NOT TO SCALE

MAINTENANCE:

MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE CRUSHED STONE AND THE EFFECTIVENESS OF THE CRUSHED STONE PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOPDRESSED WITH NEW CRUSHED STONE OR COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.

IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

CONSTRUCTION SPECIFICATIONS:

- 1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED EXIT SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE EXIT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE AREA WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION EXIT SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. STABILIZED CONSTRUCTION EXITS SHALL BE A MINIMUM OF 75 FEET LONG UNLESS A 3" TO 6" HIGH 3" MINUS STONE BERM IS PROVIDED, IN WHICH CASE THE LENGTH CAN BE REDUCED TO 50 FEET.

CONSTRUCTION SPECIFICATIONS:

- 1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIE OR STAPLES WHERE NOTED OR AS DIRECTED BY DESIGN ENGINEER.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MIDSECTION AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

MAINTENANCE:

- 1. 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.
2. 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.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. 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.

CONSTRUCTION SEQUENCE

- 1. CONTRACTOR TO NOTIFY DIG-SAFE 72-HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ENVIRONMENTAL MONITOR TO COMPLETE ALL NECESSARY INSPECTIONS AND REPORTS AS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES AS OUTLINED IN ENV-WQ 1505 (SEE ENVIRONMENTAL MONITORING NOTES).
3. PRIOR TO GRUBBING OF CLEARED AREAS, ALL SILTATION BARRIERS DESIGNED FOR USE AS TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED AS CALLED FOR ON PROJECT PLANS. INSTALL STABILIZED CONSTRUCTION EXIT AT LOCATION OF CONSTRUCTION ACCESS AT LOCATION OF INTERSECTION WITH EXISTING PAVEMENT.
4. ALL CONSTRUCTION AREAS AND BRUSH FROM CONSTRUCTION AREAS TO THE EXTENT NECESSARY, ALL BRANCHES, TOPS AND BRUSH TO BE PROPERLY DISPOSED OF BY CONTRACTOR. THIS PROJECT IS MANAGED TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:63 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
5. COMPLETE GRUBBING OPERATIONS UNDER THE ROADWAY AND SLOPE SECTIONS. ALL STUMPS AND SIMILAR DEBRIS SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR. ORGANIC MATERIAL SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED IN UPLAND AREAS. ALL STOCKPILES SHALL BE SEEDED WITH WINTER RYE AND, IF NECESSARY, SURROUNDED WITH HAY BALES IN ORDER TO PREVENT LOSS DUE TO EROSION.
6. CONSTRUCT TEMPORARY CULVERTS AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. ALL SUCH CROSSINGS SHALL BE PROTECTED FROM EROSION BY IMPLEMENTATION OF HAY BALE SILTATION FENCES AS SHOWN ON PROJECT PLANS.
7. STABILIZE ALL DITCHLINES AND PONDS PRIOR TO DIRECTING FLOW INTO THEM. CONSTRUCT DRAINAGE SYSTEM SEWER AND OTHER SUBSURFACE UTILITIES.
8. COMMENCE CONSTRUCTION OF ROADWAY. PERFORM EXCAVATION ACTIVITIES REQUIRED TO ACHIEVE SUBGRADE ELEVATION. ALL EXCAVATED EMBANKMENTS, DITCHES, SWALES AND ROADWAY CROSS CULVERTS SHALL BE INSTALLED AND STABILIZED. ALL SWALES AND DITCHLINES SHALL BE PROTECTED FROM EROSION BY IMPLEMENTATION OF HAY BALE SILTATION FENCES AS SHOWN ON PROJECT PLANS. DIVERT STORMWATER RUNOFF THROUGH THE USE OF TEMPORARY CULVERTS, OR OTHER MEANS NECESSARY PRIOR TO THE COMPLETION OF A FUNCTIONAL STORM DRAINAGE SYSTEM. SLOPES AND EMBANKMENTS SHALL BE STABILIZED BY TRACKING AND TEMPORARY SEEDING WITH WINTER RYE PRIOR TO TURF ESTABLISHMENT. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO TRACKING FOR MUD AND SOIL.
9. COMPLETE CONSTRUCTION OF ROADWAY EMBANKMENTS BY ADDING APPROPRIATE BASE MATERIALS GRADED TO PROPER ELEVATION.
10. APPLY TOPSOIL TO ROADWAY SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED SO AS TO BE FREE OF ROOTS, BRANCHES, STONES AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF 4-INCH COMPACTED THICKNESS. UPON COMPLETION OF TOPSOILING, FINISHED SECTIONS ARE TO BE LIME, SEED AND MULCH. CONSTRUCTION PERSONNEL SHALL INSPECT COMPLETED SECTIONS OF WORK ON A REGULAR BASIS AND REMEDY ANY PROBLEMS UNTIL A HEALTHY STAND OF GRASS HAS BECOME ESTABLISHED.
11. PERFORM FINE GRADING OF ROADWAY BASE MATERIALS.
12. MAINTAIN, REPAIR AND REPLACE AS NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE CONSTRUCTION AREA IS FULLY VEGETATED (A MINIMUM OF ONE WINTER SHALL HAVE PASSED).
13. AFTER STABILIZATION, REMOVE AND SUITABLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES.
14. MONITOR CONSTRUCTION ACTIVITIES ON INDIVIDUAL LOTS TO INSURE CONSTRUCTION ACTIVITIES ARE BEING PERFORMED IN SUCH A WAY AS NOT TO ENDANGER THE INTEGRITY OF ROADWAY EMBANKMENTS, STORMWATER SYSTEMS AND UTILITIES. ALL DRIVEWAYS ACROSS DITCHLINES SHALL HAVE CULVERTS INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

EROSION CONTROL NOTES:

- 1. EXPOSED EARTHWORK SHALL BE CONFINED TO AS LIMITED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN FIVE (5) ACRES OF SITE AREA BE IN AN UNSTABLE CONDITION. NO GIVEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING THIRTY (30) CALENDAR DAYS.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN NECESSARY TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OF RAINFALL OR MORE. THEY SHALL BE CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATING MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
3. ALL DISTURBED AREAS DESIGNATED TO BE TURF SHALL RECEIVE A MINIMUM APPLICATION OF 4 INCHES OF LOAM (COMPACTED THICKNESS), PRIOR TO FINAL SEEDING AND MULCHING.
4. ALL SWALES AND DITCHLINES SHALL BE PERIODICALLY CLEANED OF DEPOSITED SEDIMENT SO AS TO MAINTAIN AN EFFECTIVE GRADE AND CROSS SECTION. ALL SWALES AND DITCHLINES SHALL BE FULLY STABILIZED PRIOR TO DIVERTING STORMWATER DIRECTED TOWARDS THEM. IN THE EVENT THAT DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
5. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED.
B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
6. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD, IN ACCORDANCE WITH ENV-A 1000.
7. IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.
8. AREAS HAVING FINISH GRADE SLOPES OF 3:1 OR STEEPER, SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL. EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION.
9. ALL DETENTION PONDS AND TREATMENT SWALES SHALL BE CONSTRUCTED PRIOR TO ANY EARTH MOVING ACTIVITIES THAT WILL INFLUENCE STORMWATER RUNOFF.
10. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
11. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

ENVIRONMENTAL MONITORING:

- 1. THE APPLICANT'S CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ENVIRONMENTAL MONITOR TO COMPLETE ALL NECESSARY INSPECTIONS AND REPORTS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES AS OUTLINED IN ENV-WQ 1505.
2. SUBJECT TO (3), BELOW, THE ENVIRONMENTAL MONITOR SHALL:
a. INSPECT THE PROJECT SITE AT LEAST ONCE EACH WEEK FROM THE START OF TERRAIN ALTERATION ACTIVITIES UNTIL ALL TERRAIN ALTERATION ACTIVITIES ARE COMPLETED AND THE SITE IS STABILIZED.
b. IN ADDITION TO REGULAR WEEKLY INSPECTIONS, INSPECT THE PROJECT SITE DURING ANY RAIN EVENT IN WHICH 0.5 INCH OF PRECIPITATION OR MORE FALLS WITHIN A 24 HOUR PERIOD, PROVIDED THAT IF THE ENVIRONMENTAL MONITOR IS UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THE RAIN EVENT.
c. SUBMIT A WRITTEN REPORT, STAMPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, TO THE DEPARTMENT WITHIN 24 HOURS OF EACH INSPECTION THAT:
• DESCRIBES THE PROGRESS OF THE PROJECT, INCLUDING WHETHER ALL CONDITIONS OF THE PERMIT ARE BEING MET AND, IF NOT, WHICH REQUIREMENTS ARE NOT BEING MET;
• IF ANY REQUIREMENTS ARE NOT BEING MET, AN EXPLANATION OF THE CORRECTIVE ACTION(S) THAT WILL BE OR ARE BEING TAKEN TO BRING THE PROJECT INTO COMPLIANCE WITH APPLICABLE REQUIREMENTS AND THE DEADLINE BY WHICH SUCH ACTIONS WILL BE COMPLETED; AND
• INCLUDES PHOTOGRAPHS OF THE SITE THAT ARE REPRESENTATIVE OF THE PROJECT, AND
d. RETAIN A COPY OF THE REPORT PREPARED PURSUANT TO (c), ABOVE, ON-SITE FOR REVIEW DURING SITE INSPECTIONS BY FEDERAL, STATE, AND LOCAL OFFICIALS.
3. ROUTINE INSPECTION FREQUENCY MAY BE REDUCED FROM ONCE EACH WEEK TO AT LEAST ONCE EACH MONTH IF EITHER OF THE FOLLOWING CONDITIONS IS MET:
a. WORK HAS BEEN SUSPENDED AND THE ENTIRE SITE IS STABILIZED IN ACCORDANCE WITH ENV-WQ 1505.04; OR
b. RUNOFF IS UNLIKELY BECAUSE:
• THE GROUND IS FROZEN OR THE SITE IS COVERED WITH SNOW OR ICE; AND
• THE PROJECT IS IN AN AREA WHERE FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR MORE THAN ONE MONTH.

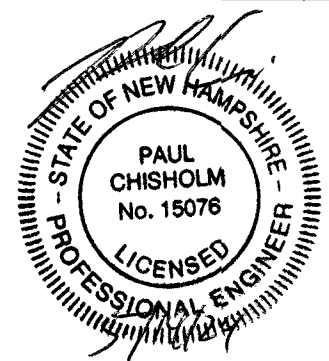
CONSTRUCTION DETAILS BARRETT HILL SUBDIVISION

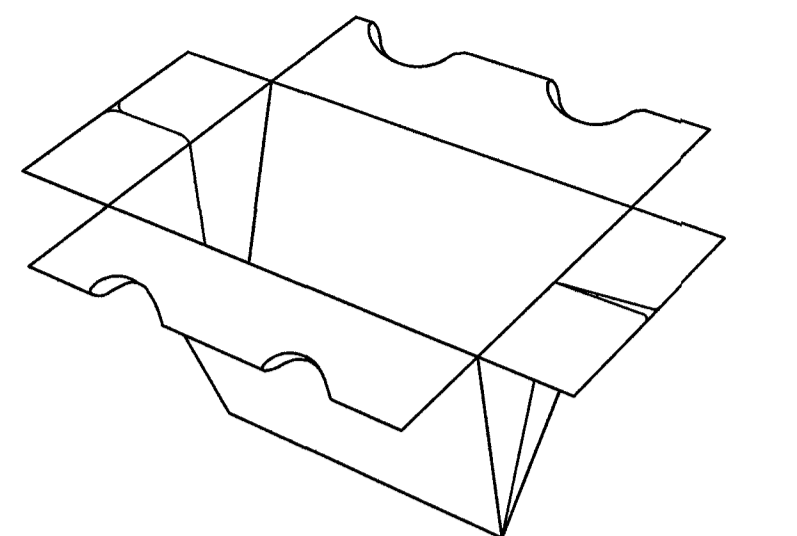
MAP 151 LOT 59 75 BARRETT'S HILL ROAD HUDSON, NEW HAMPSHIRE HILLSBOROUGH COUNTY

OWNER/APPLICANT: BARRETT HILL, LLC 21 CONTINENTAL BLVD. DOOR #4 MERRIMACK, NH 03054 H.C.R.D. BK. 9700 PG. 287

KM KEACH-NORDSTROM ASSOCIATES, INC. Civil Engineering Land Surveying Landscape Architecture 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

Table with 4 columns: No., DATE, DESCRIPTION, BY. Rows for revisions on 3/4/24, 4/23/24, 5/14/24. Includes DATE: DECEMBER 6, 2023 and PROJECT NO: 23-0414-1.





SILTSAK NOTES:

- THE SILTSAK SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE AND SEWN BY A DOUBLE NEEDLE MACHINE, USING A HIGH STRENGTH NYLON THREAD.
- THE SILTSAK SEAMS HAVE A CERTIFIED WIDE WIDTH STRENGTH PER ASTM D-4884 STANDARDS AS FOLLOWS:

SILTSAK STYLE	TEST METHOD	TEST RESULT
REGULAR FLOW	ASTM D-4884	165.0 LBS/IN
HI-FLOW	ASTM D-4884	114.6 LBS/IN

- THE SILTSAK WILL BE MANUFACTURED TO FIT THE OPENING OF THE CATCH BASIN OR DROP INLET. THE SILTSAK WILL HAVE THE FOLLOWING FEATURES:
 - TWO DUMP STRAPS ATTACHED AT THE BOTTOM TO FACILITATE THE EMPTYING OF THE SILTSAK;
 - LIFTING LOOPS AS AN INTEGRAL PART OF THE SYSTEM TO BE USED TO LIFT THE SILTSAK FROM THE BASIN; AND
 - A RESTRAINT CORD APPROXIMATELY HALFWAY UP THE SACK TO KEEP THE SIDES AWAY FROM THE CATCH BASIN WALLS. THIS YELLOW CORD IS ALSO A VISIBLE MEANS OF INDICATING WHEN THE SACK SHOULD BE EMPTIED, CLEANED AND PLACED BACK INTO THE BASIN.

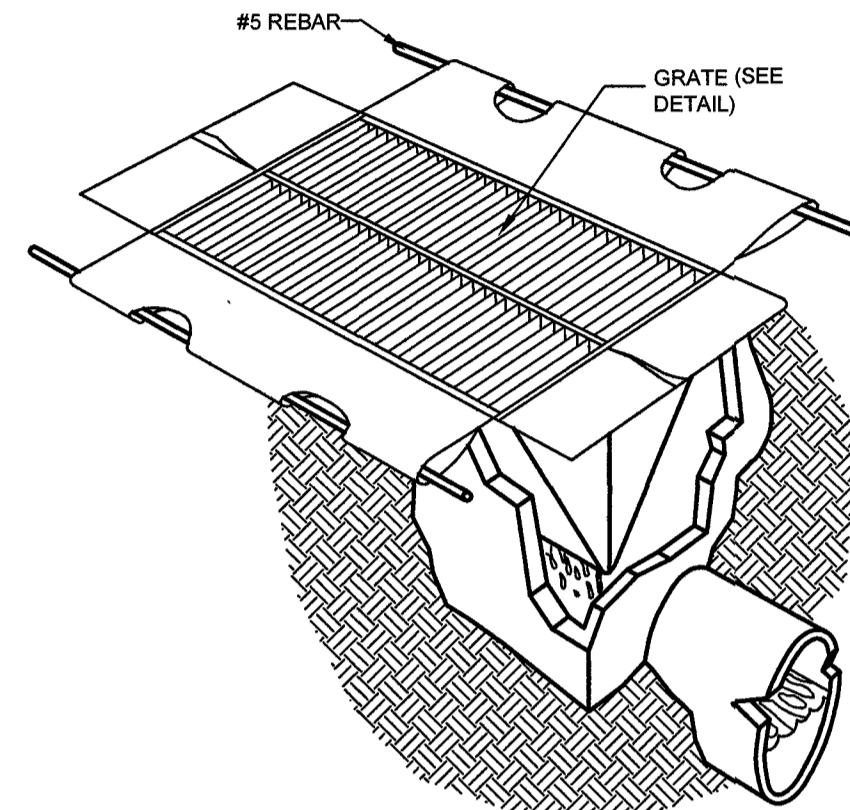
- THE GEOTEXTILE FABRIC SHALL BE WOVEN POLYPROPYLENE FABRIC WITH THE FOLLOWING PROPERTIES:

SILTSAK REGULAR FLOW:

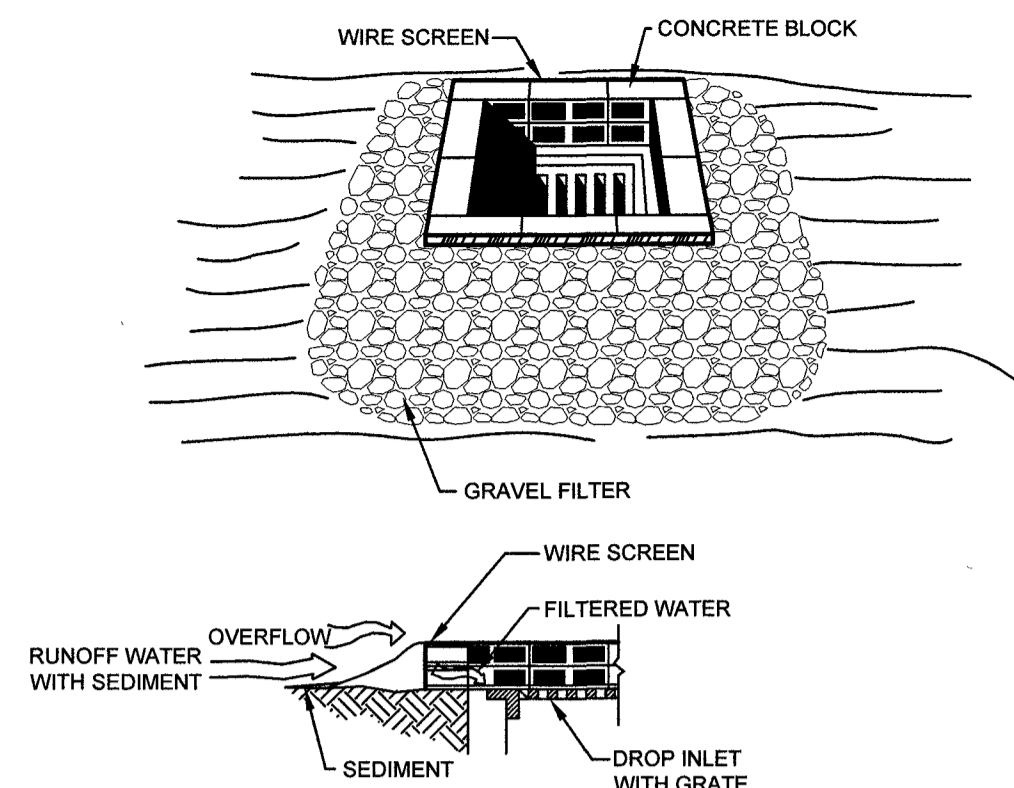
PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4643	300 LBS.
GRAB ELONGATION	ASTM D-4631	20%
PUNCTURE	ASTM D-4833	120 LBS.
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS.
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL./MIN./FT ²
PERMITTIVITY	ASTM D-4491	0.55 SEC.

OR SILTSAK HI-FLOW:

PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4632	265 LBS.
GRAB ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS.
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS.
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	20 GAL./MIN./FT ²
PERMITTIVITY	ASTM D-4491	1.5 SEC.



SILTSAK DETAIL
NOT TO SCALE
(MARCH 2008)

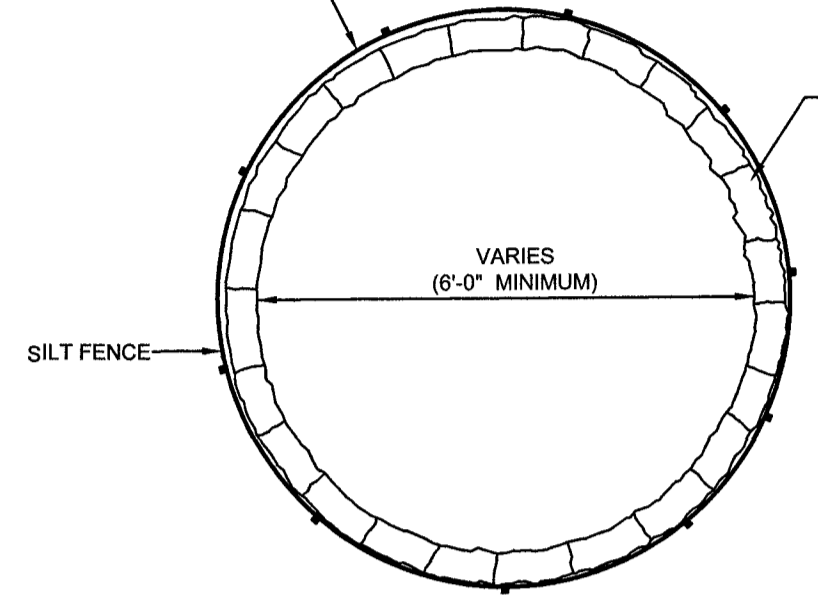
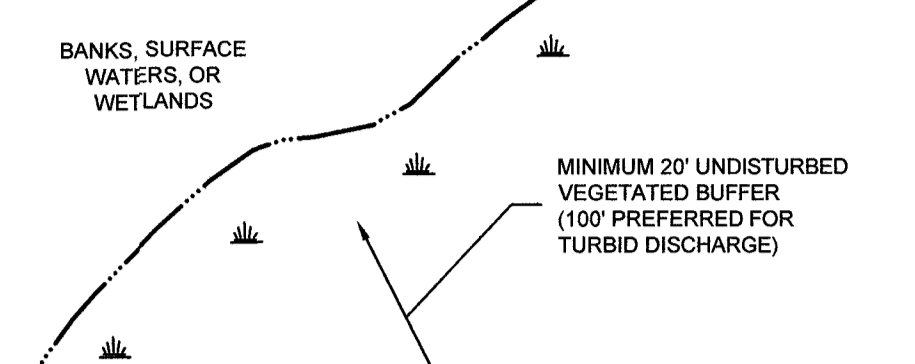
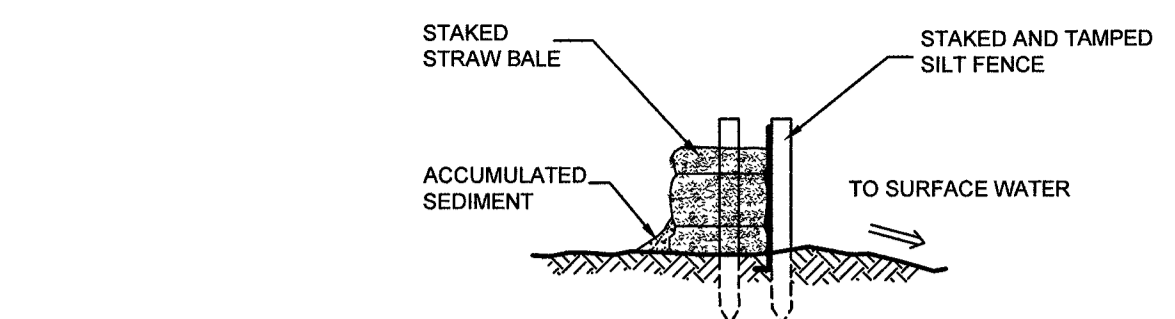


NOTES:

- CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 24 INCHES HIGH.
- HARDWARE CLOTH OR WIRE MESH SHOULD BE PLACED OVER OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
- SEWER STONE OR OTHER CLEAN COARSE AGGREGATE SHOULD BE PLACED AGAINST THE BLOCK TO THE TOP OF THE BARRIER.

BLOCK & GRAVEL DROP INLET SEDIMENT FILTER

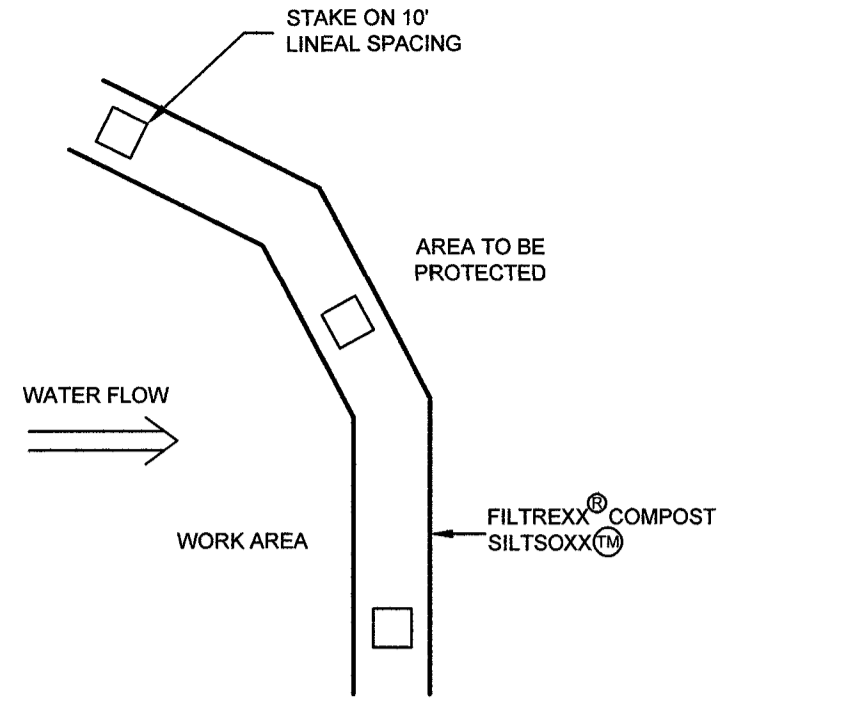
NOT TO SCALE
(MARCH 2008)



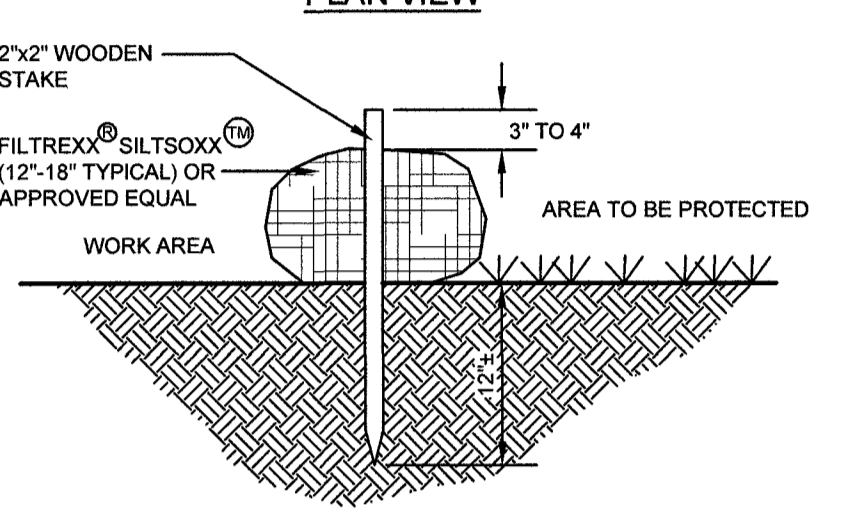
PLAN VIEW

SEDIMENT RETENTION BASIN

NOT TO SCALE
(AUGUST 2013)



PLAN VIEW



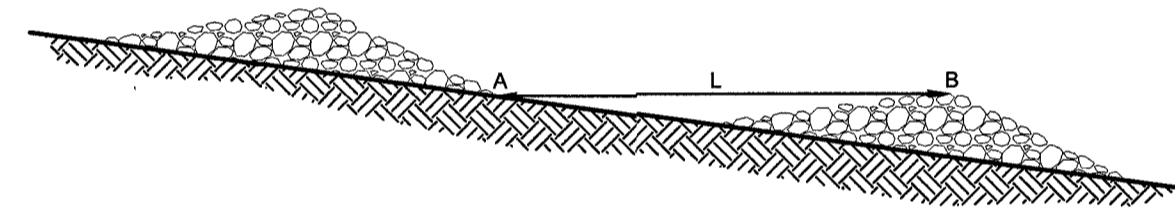
SECTION VIEW

NOTES:

- ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
- SILTSOXX® COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
- SILTSOXX® DEPICTED IS FOR MINIMUM SLOPES. GREAT SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® SILTSOXX® DETAIL

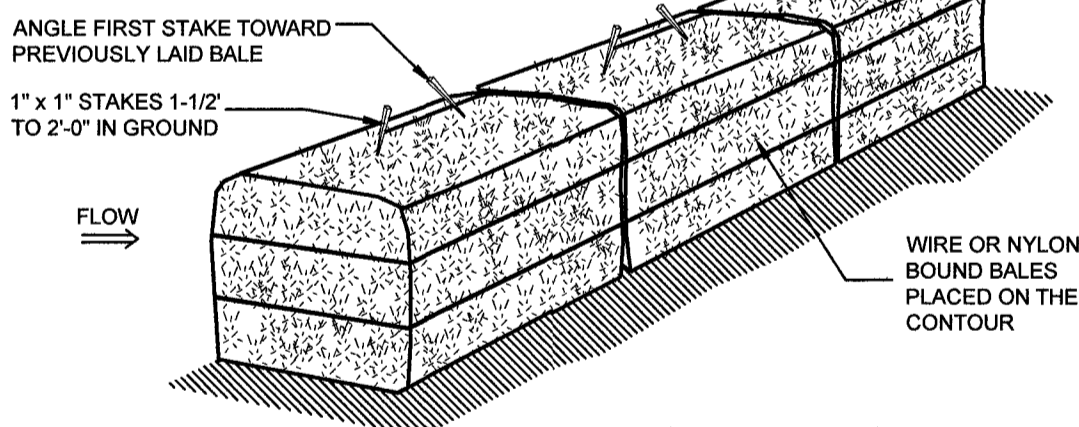
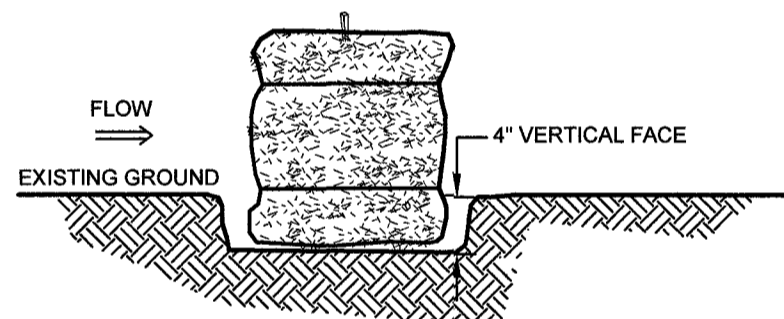
NOT TO SCALE
(AUGUST 2011)



L = THE DISTANCE SUCH THAT POINTS A AND B ARE EQUAL ELEVATION, OR FOR FLAT SLOPES L = 75' MAXIMUM

STONE CHECK DAM SPACING DETAIL

NOT TO SCALE
(MARCH 2008)



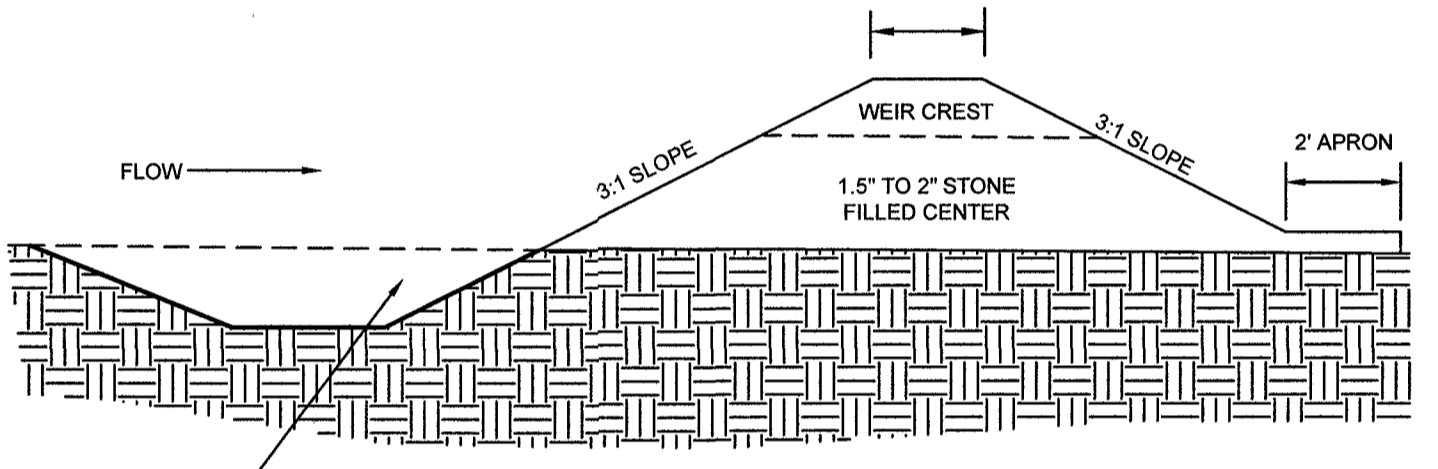
ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS:

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- BALES SHOULD BE FREE FROM ANY PLANT MATERIAL FOUND ON THE NEW HAMPSHIRE INVASIVE SPECIES LIST.

STRAW BALE BARRIER

NOT TO SCALE
(JULY 2010)



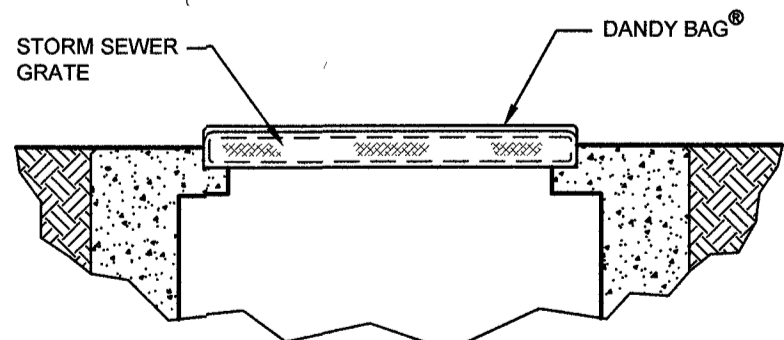
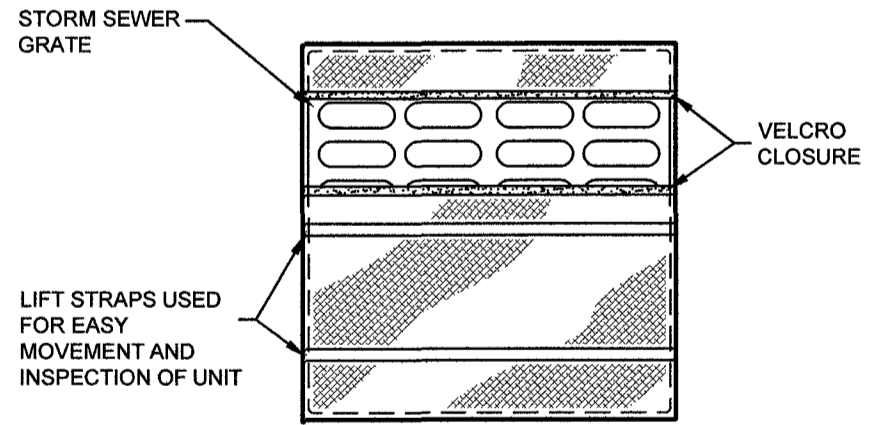
SECTION A-A

NOTES:

- THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
- THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
- THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
- THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
- THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
- SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED.

TEMPORARY SEDIMENT TRAP DETAIL

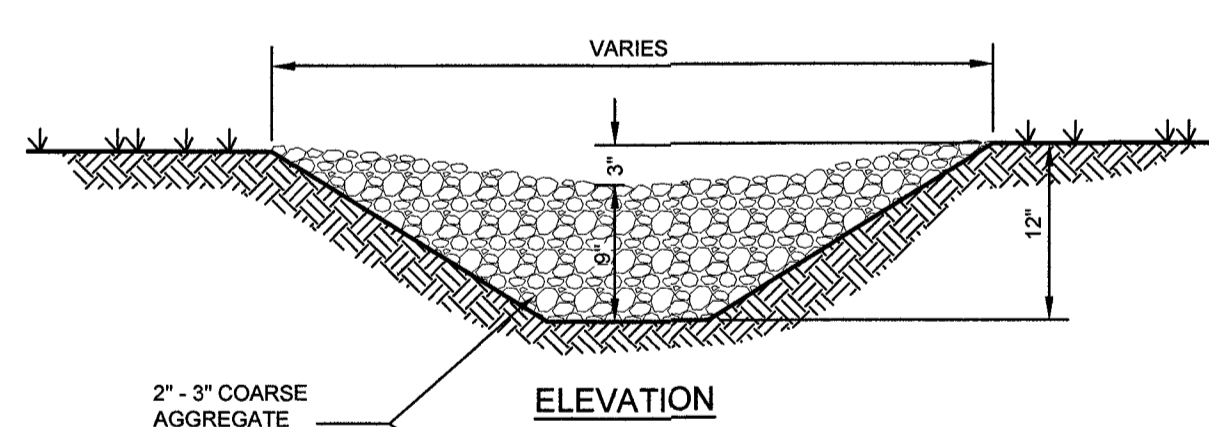
NOT TO SCALE



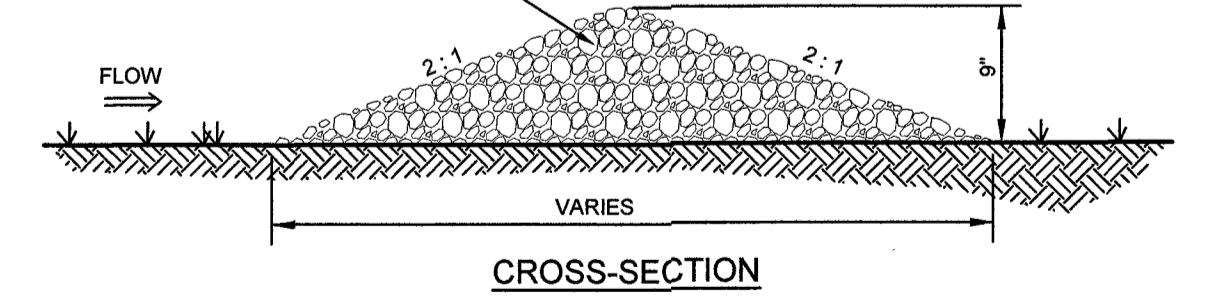
HI-FLOW DANDY BAG® (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 x 10
PUNCTURE STRENGTH	ASTM D 4633	kN (lbs)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m ² (gal/min/ft ²)	5907 (145)
PERMITTIVITY	ASTM D 4491	Sec-1	2.1

DANDY BAG®
NOT TO SCALE
(APRIL 2010)



ELEVATION



CROSS-SECTION

STONE CHECK DAM DETAIL

NOT TO SCALE
(MARCH 2008)

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____
SIGNATURE DATE: _____
SIGNATURE DATE: _____
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

CONSTRUCTION DETAILS
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

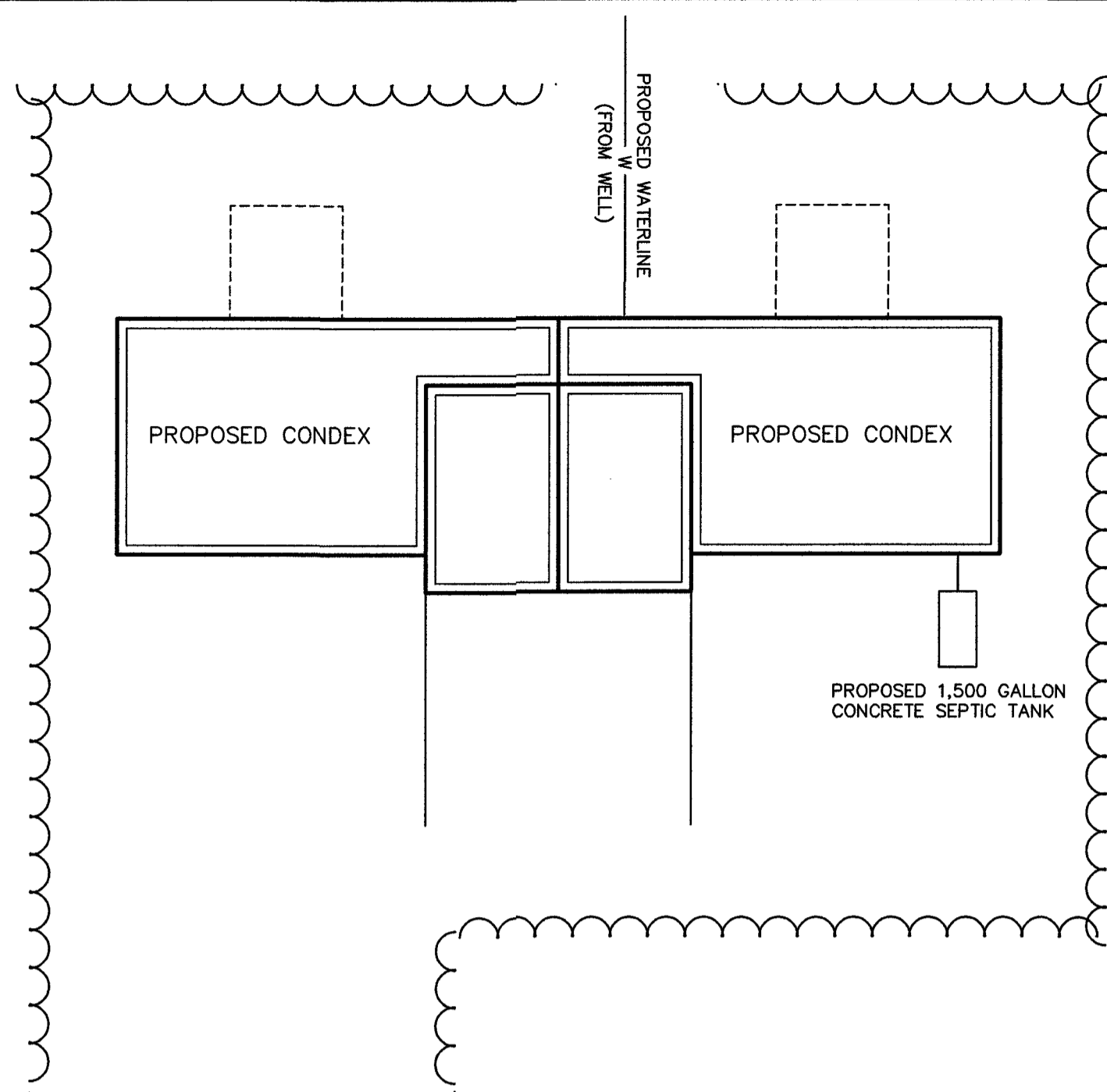
OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
PROJECT NO: 23-0414-1 SHEET: 21 OF 24



BEST MANAGEMENT PRACTICES FOR BLASTING

IF MORE THAN 5000 CUBIC YARDS ARE BLASTED:
 IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.

BEST MANAGEMENT PRACTICES FOR BLASTING:
 ALL ACTIVITIES RELATED TO BLASTING SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT CONTAMINATION OF GROUNDWATER INCLUDING PREPARING, REVIEWING AND FOLLOWING AN APPROVED BLASTING PLAN, PROPER DRILLING, EXPLOSIVE HANDLING AND LOADING PROCEDURES, OBSERVING THE ENTIRE BLASTING PROCEDURES, EVALUATING BLASTING PERFORMANCE, AND HANDLING AND STORAGE OF BLASTED ROCK.

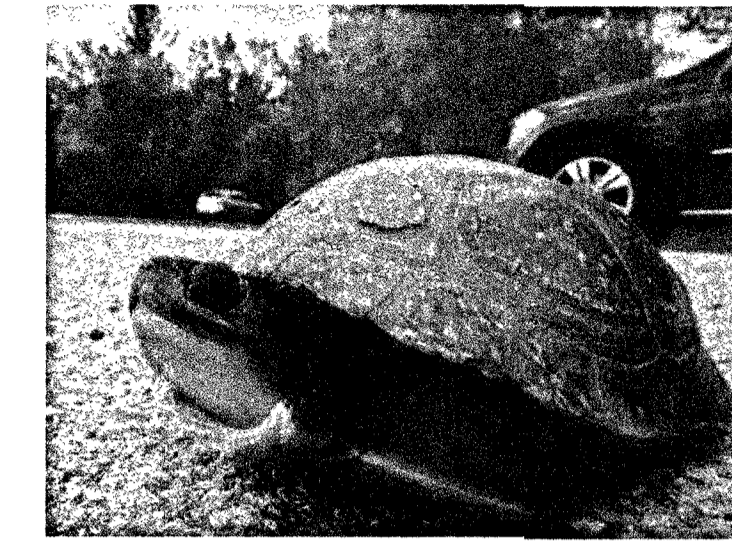
- (1) **LOADING PRACTICES**
 THE FOLLOWING BASHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
 (A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
 (B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF SITE DISPOSAL.
 (C) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF SITE DISPOSAL.
 (D) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BASHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
 (E) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
 (F) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
- (2) **EXPLOSIVE SELECTION**
 THE FOLLOWING BMPs SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
 (A) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
 (B) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
- (3) **PREVENTION OF MISFIRES**
 APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
- (4) **MUCK PILE MANAGEMENT**
 MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
 (A) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
 (B) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
- (5) **SPILL PREVENTION MEASURES AND SPILL MITIGATION**
 FILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
 (A) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
 1. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE.
 2. SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY.
 3. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY.
 4. INSPECT STORAGE AREAS WEEKLY.
 5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS.
 6. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS.
 7. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
 (B) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
 1. EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED.
 2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS.
 3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS.
 4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES.
 5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
 (C) THE TRAINING OF ON SITE EMPLOYEES AND THE ON SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
 (D) FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT.



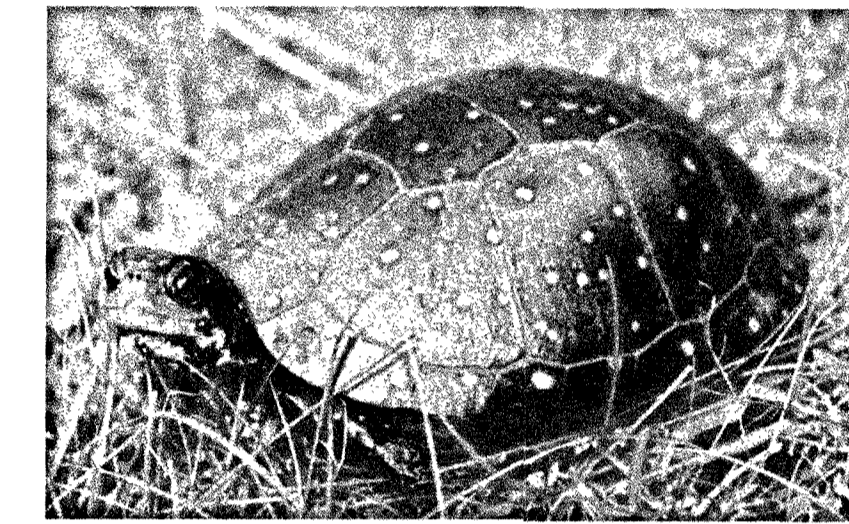
WATCH FOR RARE TURTLES



Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th).
 Turtles are most active from April 15th - October 15th.



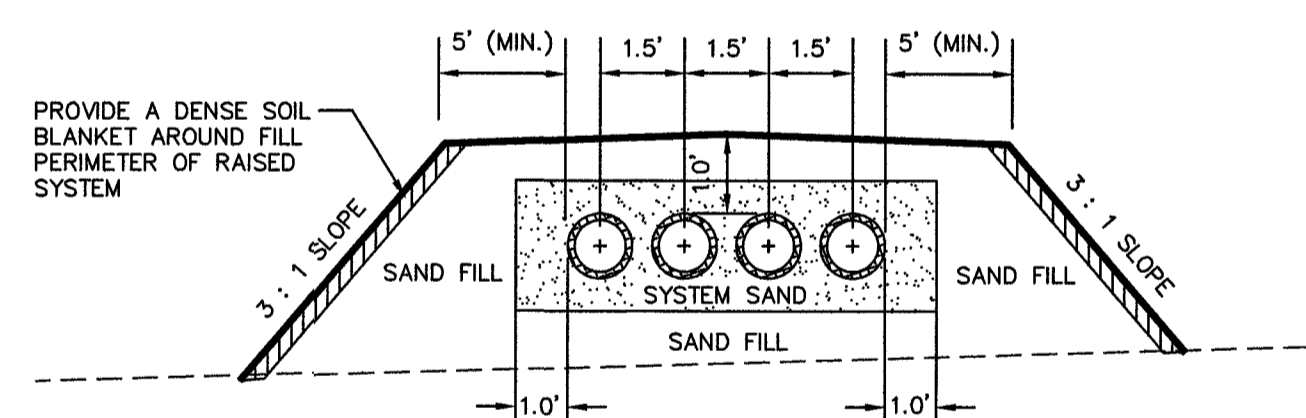
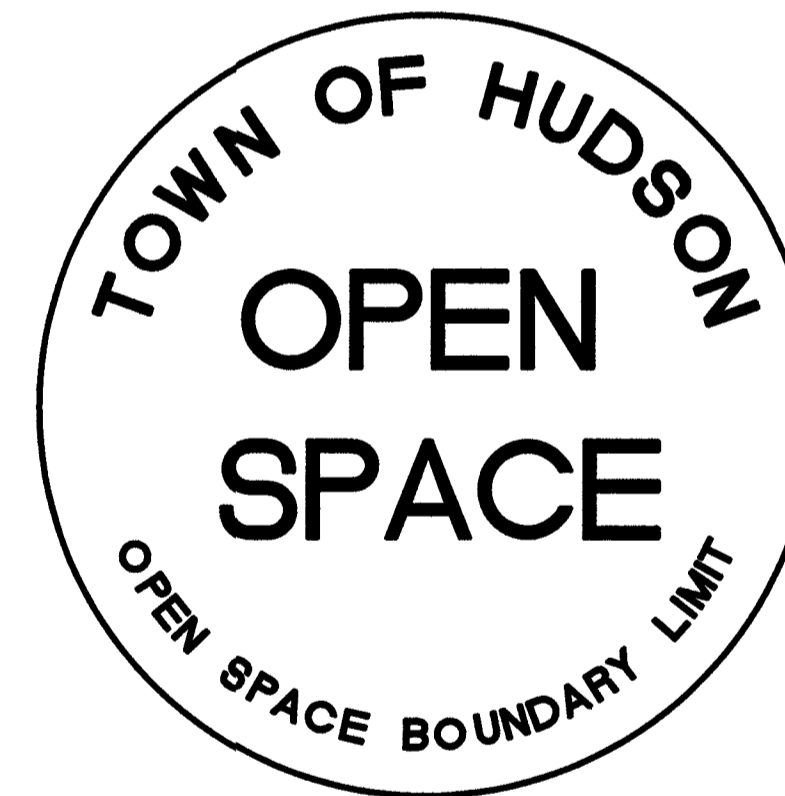
Blanding's turtle
 (State Endangered)
 Large, dark/black domed shell with lighter speckles.
 Distinct yellow throat/chin.
 Semi-aquatic - uses both wetland and terrestrial habitats.



Spotted turtle
 (State Threatened)
 Small, mostly aquatic with black or dark brown with yellow spots.
 Fairly flat shell compared to Blanding's turtle.
 Spots vary in color and number.
 Semi-aquatic - uses both wetland and terrestrial habitats.

Blanding's and spotted turtles are protected by state laws. It is illegal to capture, harass or harm these species, including their nests. Handle ONLY if necessary to move out of harms way. Move to the nearest location in the direction they were moving and contact NHFG. Do not disturb nests.

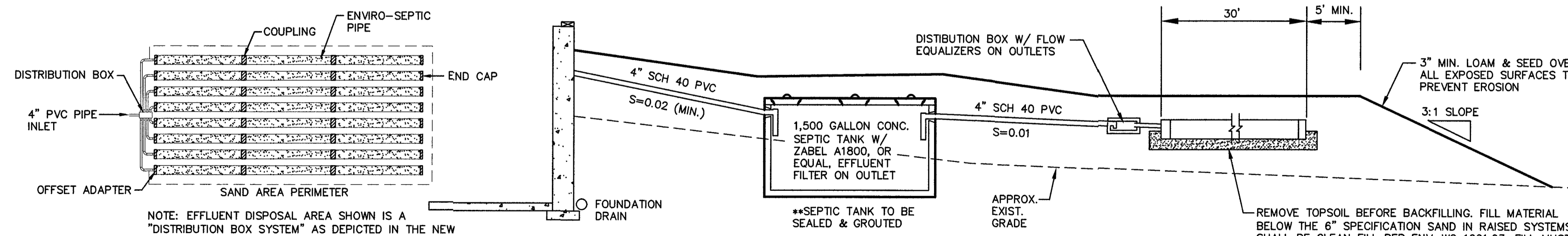
Report sightings in accordance with NHFG conditions. Contact NHFG Wildlife Biologist Melissa Winters 603-479-1129 (cell) anytime. Please report promptly, noting specific location and date – Photographs strongly encouraged.



FILL SPECIFICATION
 SYSTEM SAND TO BE 6" MINIMUM OF MEDIUM TO COARSE SAND WITH AN EFFECTIVE PARTICLE SIZE OF 0.25 MM TO 2.00 MM, WITH NO GREATER THAN 2% PASSING A #200 SIEVE AND NO PARTICLES LARGER THAN 3/4" AROUND THE CIRCUMFERENCE OF THE ENVIRO-SEPTIC PIPE. ALL OTHER FILL USED IN RAISED SYSTEMS SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGING, DEBRIS, OR STONES LARGER THAN 6 IN ANY DIMENSION IN ACCORDANCE WITH ENV-WQ 1021.03

TYPICAL ENVIRO-SEPTIC CROSS SECTION
 -NOT TO SCALE-

NOTE:
 1. MARKERS SHALL BE PLACED:
 A. EVERY 100' ON BOUNDARY LINES BETWEEN RESIDENT LOTS AND OPEN SPACE, AND
 B. AT ANY POINT IN WHICH A BOUNDARY LINE CHANGES BEARING DIRECTION.
4" OPEN SPACE BOUNDARY MARKER
 NOT TO SCALE



NOTE: EFFLUENT DISPOSAL AREA SHOWN IS A "DISTRIBUTION BOX SYSTEM" AS DEPICTED IN THE NEW HAMPSHIRE ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL (2003 EDITION).

EDA PLAN DETAIL
 SCALE: 1" = 10'

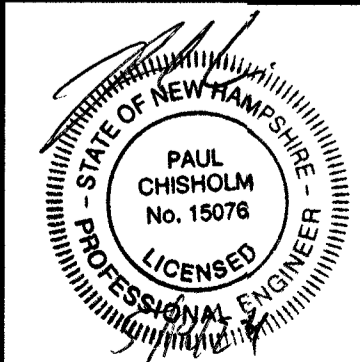
TYPICAL SECTION OF PROPOSED SEPTIC SYSTEM
 -NOT TO SCALE-

APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____
 SIGNATURE: _____ DATE: _____
 SIGNATURE: _____ DATE: _____
 SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

CONSTRUCTION DETAILS
BARRETT HILL SUBDIVISION
 MAP 151 LOT 59
 75 BARRETT'S HILL ROAD
 HUDSON, NEW HAMPSHIRE
 HILLSBOROUGH COUNTY

OWNER/APPLICANT:
 BARRETT HILL, LLC
 21 CONTINENTAL BLVD. DOOR #4
 MERRIMACK, NH 03054
 H.C.R.D. BK. 9700 PG. 287

KMA KEACH-NORDSTROM ASSOCIATES, INC.
 Civil Engineering Land Surveying Landscape Architecture
 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 827-2881



REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
 PROJECT NO: 23-0414-1 SHEET: 22 OF 24

<p>TP #1 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 30"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>30" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	30" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #2 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 20"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>20" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	20" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #3 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 24"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>24" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	24" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #4 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 24"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>24" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	24" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #5 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 30"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>30" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	30" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #6 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 36"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>36" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	36" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #7 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 28"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>28" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	28" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #8 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 24"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>24" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/4 GRANULAR, FRIABLE SANDY LOAM, ROOTS	24" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE		<p>TP #9 LOGGED BY GPC PERC TEST @ 20" DATE: 4-4-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 36"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>16"</td><td>10YR 6/6 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>36" E.S.H.W.T.</td><td>10YR 5/4 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>72" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	16"	10YR 6/6 GRANULAR, FRIABLE SANDY LOAM, ROOTS	36" E.S.H.W.T.	10YR 5/4 FIRM SAND, BLOCKEY W/ REDOX FEATURES	72" BOTTOM OF HOLE	
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<p>TP #20 LOGGED BY GPC PERC TEST @ 20" DATE: 10-12-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: NONE</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>36" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>60" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS	36" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	60" BOTTOM OF HOLE		<p>TP #21 LOGGED BY GPC PERC TEST @ 20" DATE: 10-12-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: NONE</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>36" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>60" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS	36" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	60" BOTTOM OF HOLE		<p>TP #22 LOGGED BY GPC PERC TEST @ 20" DATE: 12-8-2023 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: 60"</p> <table border="1"> <tr><td>0"</td><td>TOPSOIL</td></tr> <tr><td>10"</td><td>10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS</td></tr> <tr><td>36" E.S.H.W.T.</td><td>10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES</td></tr> <tr><td>60" BOTTOM OF HOLE</td><td></td></tr> </table>	0"	TOPSOIL	10"	10YR 6/5 GRANULAR, FRIABLE SANDY LOAM, ROOTS	36" E.S.H.W.T.	10YR 7/2 FIRM SAND, BLOCKEY W/ REDOX FEATURES	60" BOTTOM OF HOLE																																																							
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TEST PIT LOGS
BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETT'S HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER/APPLICANT:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, NH 03054
H.C.R.D. BK. 9700 PG. 287

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 827-2881

REVISIONS			
No.	DATE	DESCRIPTION	BY
1	3/4/24	STAFF & REVIEW ENGINEER REVS	PCM
2	4/23/24	NHDES AOT & SITE WALK REVS	PCM
3	5/14/24	NHDES AOT REVISIONS	PCM

DATE: DECEMBER 6, 2023 SCALE: AS SHOWN
PROJECT NO: 23-0414-1 SHEET: 23 OF 24

APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

SIGNATURE DATE: _____

SIGNATURE DATE: _____

SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

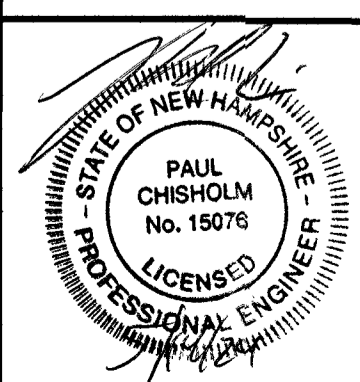
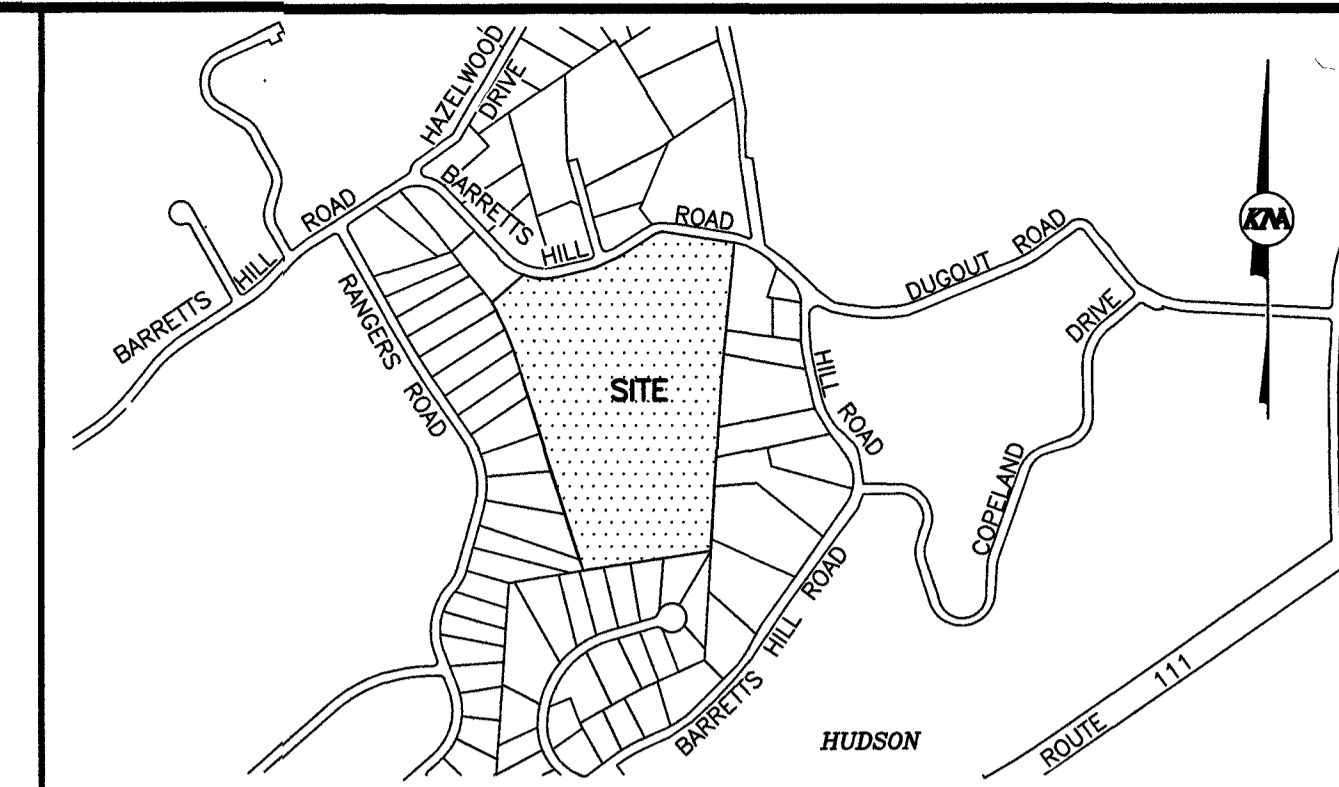


TABLE OF ZONING REQUIREMENTS RESIDENTIAL SINGLE FAMILY	
DESCRIPTION	REQUIRED
MINIMUM LOT SIZE	87,120 SF
MINIMUM LOT FRONTAGE	200 FT
FRONT YARD SETBACK	50 FT
SIDE YARD SETBACK	15 FT
REAR YARD SETBACK	15 FT

LEGEND

- PROPERTY LINE
- R.O.W. LINE
- EDGE OF PAVEMENT
- EASEMENT
- STEEP SLOPE AREAS

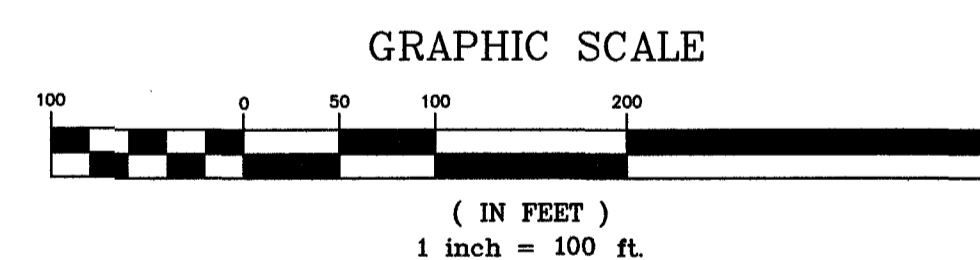


LOCATION PLAN
SCALE: 1" = 1000'±

NOTES:

- THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING CONDITIONS PRESENT ON ASSESSORS MAP 151 LOT 59 IN HUDSON, N.H.
- TOTAL SITE AREA = 1,540,250 S.F. OR 35.36 ACRES
- OWNER OF RECORD:
BARRETT HILL, LLC
21 CONTINENTAL BLVD. DOOR #4
MERRIMACK, N.H. 03054
- THE SUBJECT PARCEL IS LOCATED WITHIN THE GENERAL (G-1) ZONING DISTRICT AND IS SUBJECT TO THE FOLLOWING DIMENSIONAL REQUIREMENTS:
MINIMUM LOT AREA: 87,120 SF
MINIMUM FRONTAGE: 200 FT
MINIMUM BUILDING SETBACKS:
- FRONT 50 FT
- SIDE 15 FT
- REAR 15 FT
- BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A FIELD SURVEY PERFORMED BY THIS OFFICE IN MAY OF 2023.
- HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD83 USING REAL TIME GPS SURVEYING METHODS.
- EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF HUDSON, NEW HAMPSHIRE, HILLSBOROUGH COUNTY COMMUNITY NUMBER 3301100510D PANEL NUMBER 517 OF 701 EFFECTIVE DATE SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD.
- THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE OWNER OR CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
- EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.

TABLE OF LOT AREAS						
LOT NUMBER	LOT AREA (SF)	FRONTAGE (FT)	STEEP SLOPES (SF)	WETLANDS (SF)	NON-CONTIGUOUS AREA (SF)	BLA (SF)
59-1	88,131	335.00	0	0	0	88,131
59-2	96,775	285.80	5,009	0	0	91,766
59-3	97,174	200.00	6,971	0	0	90,203
59-4	156,151	200.00	16,069	0	0	140,082
59-5	142,602	697.40	33,998	0	0	108,604
59-6	136,428	245.00	30,511	0	0	105,917
59-7	126,038	326.90	28,789	0	0	97,249
59-8	109,418	772.80	13,736	0	0	95,682
59-9	87,890	523.00	0	0	0	87,890
59-10	90,231	542.30	264	0	0	89,967
59-11	89,194	579.90	1,668	0	0	87,526
59-12	89,761	275.00	0	0	0	89,761
59-13	88,433	290.00	0	0	0	88,433
ROW AREA=142,024						
TOTAL AREA=1,540,250						



REFERENCE PLANS:

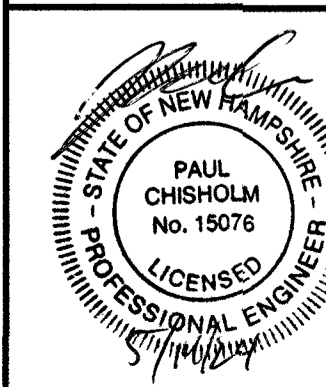
- "LOT LINE RELOCATION TO INCLUDE WELL SURVEYED FOR GEORGE BOYER BARRETTS HILL ROAD HUDSON, N.H." SCALE: 1"=40'. DATED: JANUARY 10, 1978. PREPARED BY: PIANTOSI ASSOCIATES, INC. H.C.R.D. PLAN #11141
- "BOUNDARY PLAN BARRETTS HILL ROAD HUDSON, NEW HAMPSHIRE. PREPARED FOR: MICHAEL F. CALLAHAN ET.UX." SCALE: 1"=100'. DATED: OCTOBER 5, 1979. PREPARED BY: ALLEN H. SWANSON, INC. H.C.R.D. PLAN #12696
- "DECLARATION OF CONDOMINIUM SITE PLAN HILLTOP HOUSE -A CONDOMINIUM-" SCALE: 1"=20'. DATED: AUGUST 6, 1981. PREPARED BY: THOMAS F. MORAN INC. H.C.R.D. PLAN #15313
- "SUBDIVISION PLAN BARRETTS HILL ROAD HUDSON, N.H. PREPARED FOR JOHN JACOBS." SCALE: 1"=50'. DATED: SEPTEMBER 25, 1985. PREPARED BY: STEVEN J. PATRICK & ASSOCIATES. H.C.R.D. PLAN #19495
- "MALLARD DRIVE SUBDIVISION CONSOLIDATION AND RESUBDIVISION PLAN." SCALE: 1"=80'. DATED: AUGUST, 1985. PREPARED BY: COSTELLO, LOMASNEY & DE NAPOLI, INC. H.C.R.D. PLAN #22145
- "CONSOLIDATION & SUBDIVISION PLAN LOT 54 MAP 31" SCALE: 1"=50'. DATED: AUGUST 1986. PREPARED BY: MAYNARD & PAQUETTE, INC. H.C.R.D. PLAN #22146
- "CONDOMINIUM PLAN OF LAND IN HUDSON, N.H. PREPARED FOR JOHN JACOBS." SCALE: 1"=50'. DATED: AUGUST 30, 1990. PREPARED BY: STEVEN J. PATRICK & ASSOCIATES LAND SURVEYORS. H.C.R.D. PLAN #24824
- "SUBDIVISION PLAN MASINGILL SUBDIVISION 65 BARRETTS HILL ROAD, HUDSON, N.H." SCALE: 1"=50'. DATED: FEBRUARY 11, 1998. PREPARED BY: JONES & BEACH ENGINEERS, INC. H.C.R.D. PLAN #29219

CONVENTIONAL SUBDIVISION YIELD PLAN

BARRETT HILL SUBDIVISION
MAP 151 LOT 59
75 BARRETTS HILL ROAD
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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DATE: DECEMBER 6, 2023 SCALE: 1"=100'
PROJECT NO: 23-0414-1 SHEET: 24 OF 24

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