

MAP 234, LOTS 5, 34, & 35 AND MAP 239, LOT 1
 LOT LINE ADJUSTMENT/SUBDIVISION PLAN

HUDSON LOGISTICS CENTER

LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE

PREPARED FOR

LANGAN

888 BOYLSTON STREET
 BOSTON, MASSACHUSETTS
 (617) 824-9100

RECORD OWNERS

**GREENMEADOW GOLF CLUB, INC.,
 THOMAS P. FRIEL & PHILIP J. FRIEL, III**

55 MARSH ROAD
 HUDSON, NEW HAMPSHIRE 03051
 (603) 882-8893

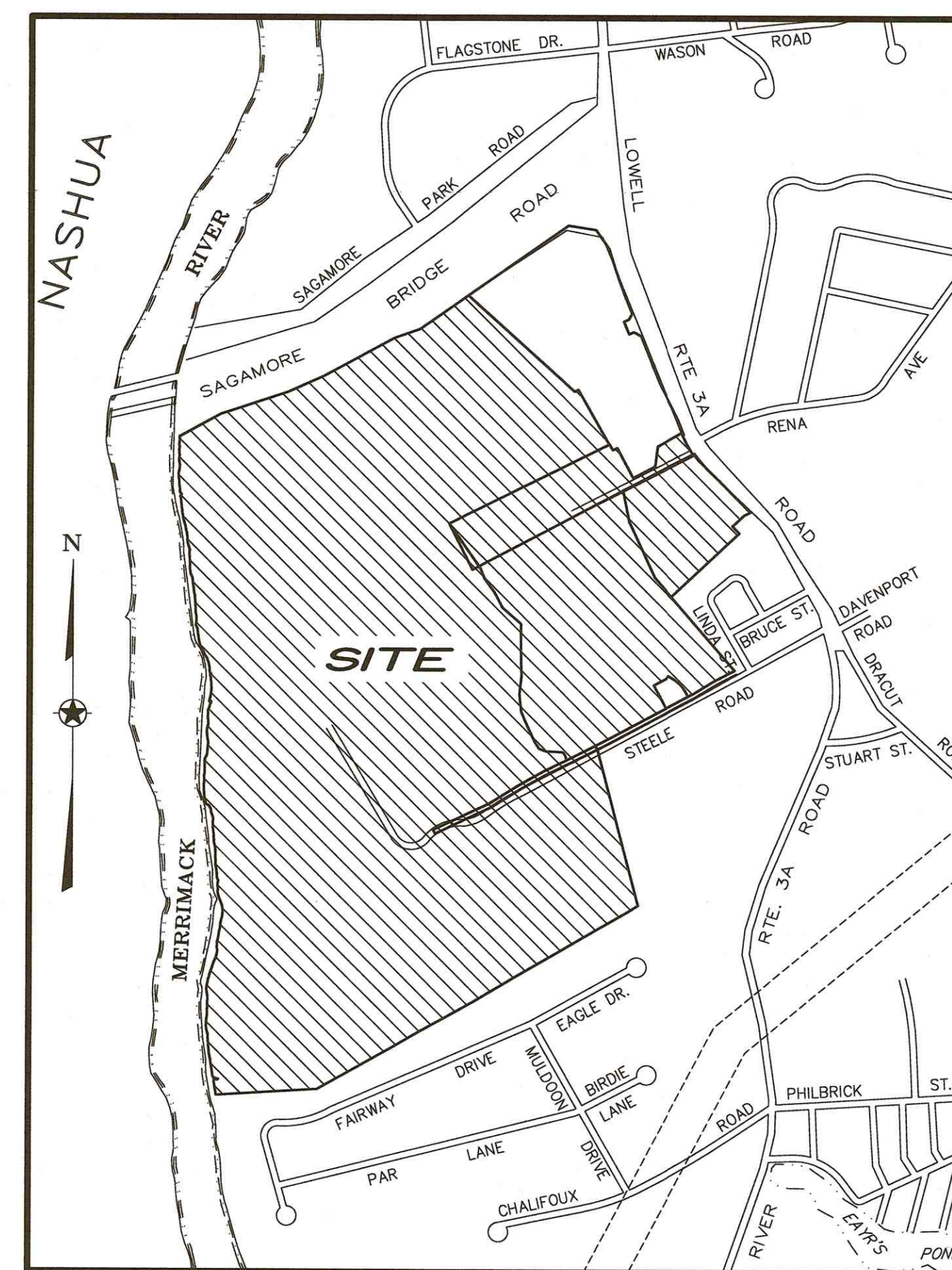
267 LOWELL RD HUDSON, LLC

c/o RAM MNGT CO., LLC
 200 US RTE 1, STE 200
 SCARBOROUGH, ME 04070

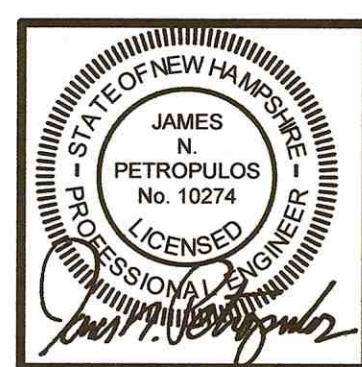
21 APRIL 2020

REVISED
 13 JULY 2020

INDEX OF PLANS		
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2 OF 17	ABUTTERS, NOTES & LEGEND PLAN	
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10 OF 17	LOT LINE ADJUSTMENT/SUBDIVISION PLAN	1" = 40'
11-17 OF 17	TOPOGRAPHIC SUBDIVISION PLAN	1" = 100'
1 OF 22	MASTER PLAN - GREEN MEADOW DRIVE	1" = 150'
2 OF 22	SITE DEMOLITION PLAN	1" = 40'
3-6 OF 22	PLAN & PROFILES	1" = 40' H 1" = 4" V
7-9 OF 22	ROAD LAYOUT PLAN	1" = 40'
10-12 OF 22	EROSION CONTROL PLAN	1" = 40'
13-16 OF 22	DETAIL SHEET - GENERAL	
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19-21 OF 22	PHOTOMETRIC SITE LIGHTING PLAN	1" = 40'
22 OF 22	SITE LIGHTING DETAILS	
APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING: _____ CHAIRMAN: _____ SIGNATURE DATE: _____ SECRETARY: _____ SIGNATURE DATE: _____ <small>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.</small>		

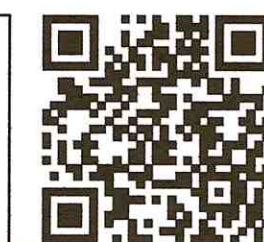
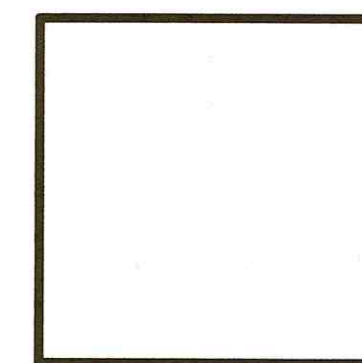


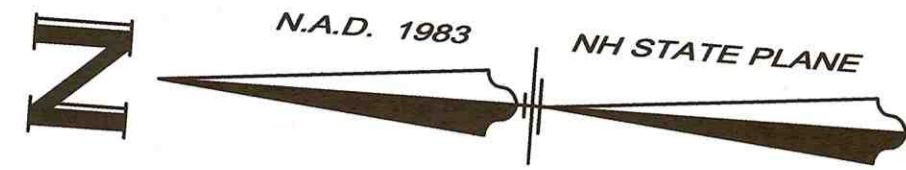
VICINITY PLAN
 SCALE: 1" = 1,000'



HSI Hayner/Swanson, Inc.

Civil Engineers/Land Surveyors
 3 Congress Street Nashua, NH 03062 (603) 883-2057
 131 Middlesex Turnpike Burlington, MA 01803 (781) 203-1501
 www.hayner-swanson.com





RIPARIAN NOTE:

THE PORTION OF THE MERRIMACK RIVER DEPICTED ON THIS PLAN, IS IDENTIFIED ON THE OFFICIAL LIST OF PUBLIC WATERS PURSUANT TO RSA 271:200 AND ALSO ON THE NHDES LIST OF WATERBODIES SUBJECT TO RSA 483-B, THE SHORELAND WATER QUALITY PROTECTION ACT (SWQPA).

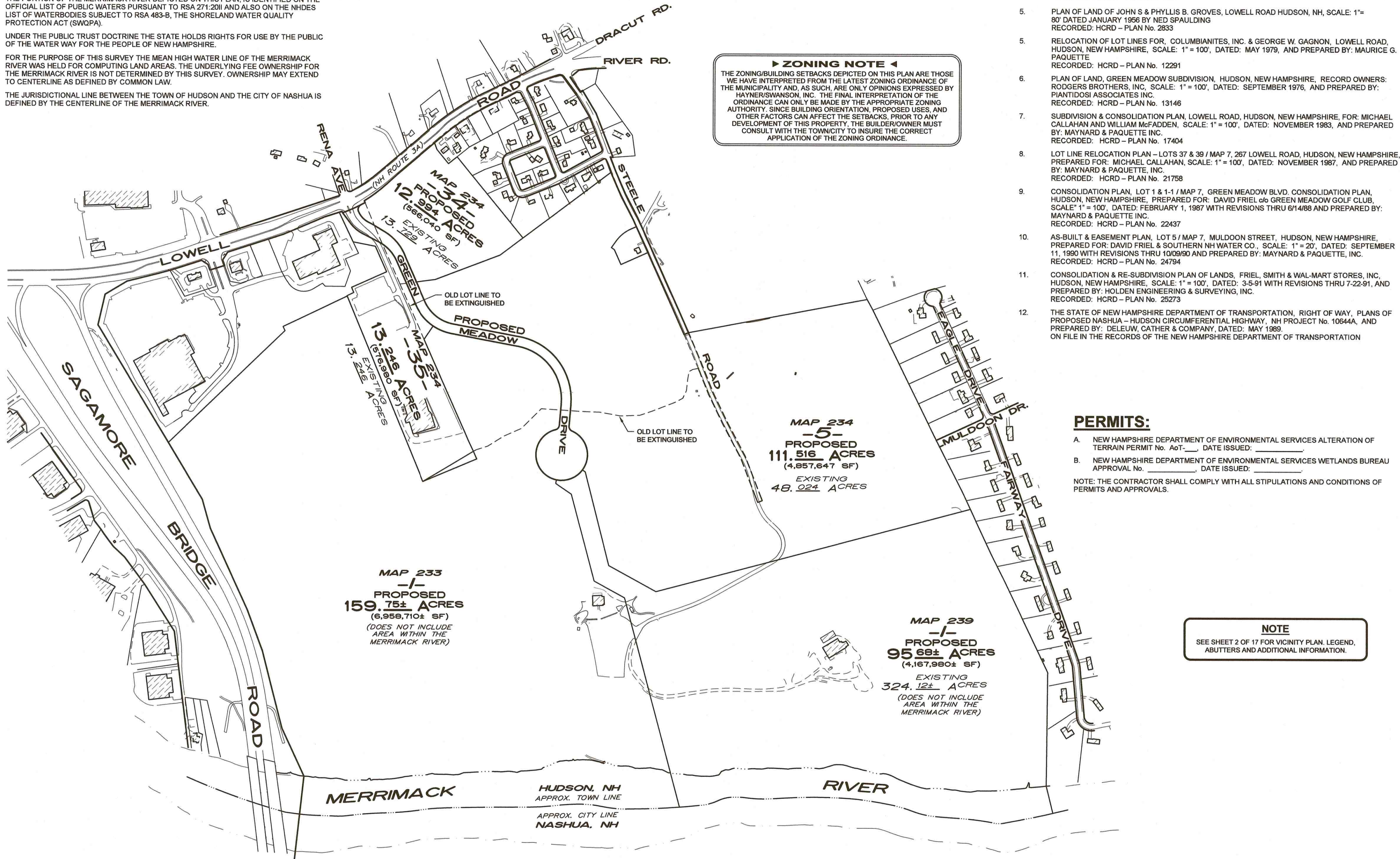
UNDER THE PUBLIC TRUST DOCTRINE THE STATE HOLDS RIGHTS FOR USE BY THE PUBLIC OF THE WATER WAY FOR THE PEOPLE OF NEW HAMPSHIRE.

FOR THE PURPOSE OF THIS SURVEY THE MEAN HIGH WATER LINE OF THE MERRIMACK RIVER WAS HELD FOR COMPUTING LAND AREAS. THE UNDERLYING FEE OWNERSHIP FOR THE MERRIMACK RIVER IS NOT DETERMINED BY THIS SURVEY. OWNERSHIP MAY EXTEND TO CENTERLINE AS DEFINED BY COMMON LAW.

THE JURISDICTIONAL LINE BETWEEN THE TOWN OF HUDSON AND THE CITY OF NASHUA IS DEFINED BY THE CENTERLINE OF THE MERRIMACK RIVER.

LOT AREA TABLE (AFTER SUBDIVISION)					
LOT	TOTAL AREA (ACRES)	AREA OF WETLAND (AC.)	AREA SLOPE>25% (ACRES)	NET USABLE AREA (ACRES)	FRONTAGE (FT)
MAP 233, LOT 1	159.75±	17.04±	6.52±	139.19±	1,792.24
MAP 234, LOT 5	111.516	18.70±	1.42±	91.40±	2,999.34
MAP 234, LOT 34	12.994	1.66±	0.55±	10.78±	1,361.03
MAP 234, LOT 35	13.246	N/A±	N/A	N/A	1,048.75
MAP 239, LOT 1	95.68±	1.55	6.50±	87.63±	200
ROADWAY	5.926	0.89±	N/A	N/A	N/A

ZONING NOTE 4
 THE ZONING/BUILDING SETBACKS DEPICTED ON THIS PLAN ARE THOSE WE HAVE INTERPRETED FROM THE LATEST ZONING ORDINANCE OF THE MUNICIPALITY AND, AS SUCH, ARE ONLY OPINIONS EXPRESSED BY HAYNER/SWANSON, INC. THE FINAL INTERPRETATION OF THE ORDINANCE CAN ONLY BE MADE BY THE APPROPRIATE ZONING AUTHORITY. SINCE BUILDING ORIENTATION, PROPOSED USES, AND OTHER FACTORS CAN AFFECT THE SETBACKS, PRIOR TO ANY DEVELOPMENT OF THIS PROPERTY, THE BUILDER/OWNER MUST CONSULT WITH THE TOWN/CITY TO INSURE THE CORRECT APPLICATION OF THE ZONING ORDINANCE.



PLAN REFERENCES:

- PLAN OF LAND BELONGING TO ALPHONSE J. RAUDONIS, HUDSON, NEW HAMPSHIRE, SCALE: 1" = 200', DATED: DECEMBER 1950, SURVEYOR: G.R. HYDE. RECORDED: HCRD - PLAN No. 270
- PLAN OF LAND OF E. STUART & DORIS E. GROVES, HUDSON, NH, SCALE: 1" = 100', DATED: MAY 1951, LOTS ADDED AUGUST 1953, LOT 7A ADDED DECEMBER 1953 DUPONT & TATE ADDED OCTOBER 1955, AND PREPARED BY: NED SPAULDING. RECORDED: HCRD - PLAN No. 1231
- PLAN OF LAND OF GORDON B. TATE, LOWELL ROAD, HUDSON, NEW HAMPSHIRE, SCALE: 1" = 50', DATED: MAY 1956 WITH AMENDMENTS THRU FEBRUARY 1959, PREPARED BY: NED SPAULDING, CIVIL ENGINEER. RECORDED: HCRD - PLAN No. 1701
- BROOKHAVEN, STEELE ROAD, HUDSON, NEW HAMPSHIRE, RECORD OWNER: JOSEPH A. DUROCHER, SCALE: 1" = 50', DATED: JUNE 28, 1960, SURVEYOR: EARLE WILLIAMS. RECORDED: HCRD - PLAN No. 1856
- PLAN OF LAND OF JOHN S. & PHYLLIS B. GROVES, LOWELL ROAD HUDSON, NH, SCALE: 1" = 80' DATED JANUARY 1956 BY NED SPAULDING. RECORDED: HCRD - PLAN No. 2833
- RELOCATION OF LOT LINES FOR, COLUMBIANITES, INC. & GEORGE W. GAGNON, LOWELL ROAD, HUDSON, NEW HAMPSHIRE, SCALE: 1" = 100', DATED: MAY 1979, AND PREPARED BY: MAURICE G. PAQUETTE. RECORDED: HCRD - PLAN No. 12291
- PLAN OF LAND, GREEN MEADOW SUBDIVISION, HUDSON, NEW HAMPSHIRE, RECORD OWNERS: RODGERS BROTHERS, INC, SCALE: 1" = 100', DATED: SEPTEMBER 1976, AND PREPARED BY: PIANTADOSI ASSOCIATES INC. RECORDED: HCRD - PLAN No. 13146
- SUBDIVISION & CONSOLIDATION PLAN, LOWELL ROAD, HUDSON, NEW HAMPSHIRE, FOR: MICHAEL CALLAHAN AND WILLIAM McFADDEN, SCALE: 1" = 100', DATED: NOVEMBER 1983, AND PREPARED BY: MAYNARD & PAQUETTE INC. RECORDED: HCRD - PLAN No. 17404
- LOT LINE RELOCATION PLAN - LOTS 37 & 39 / MAP 7, 267 LOWELL ROAD, HUDSON, NEW HAMPSHIRE, PREPARED FOR: MICHAEL CALLAHAN, SCALE: 1" = 100', DATED: NOVEMBER 1987, AND PREPARED BY: MAYNARD & PAQUETTE, INC. RECORDED: HCRD - PLAN No. 21758
- CONSOLIDATION PLAN, LOT 1 & 1-1 / MAP 7, GREEN MEADOW BLVD. CONSOLIDATION PLAN, HUDSON, NEW HAMPSHIRE, PREPARED FOR: DAVID FRIEL c/o GREEN MEADOW GOLF CLUB, SCALE: 1" = 100', DATED FEBRUARY 1, 1987 WITH REVISIONS THRU 01/4/88 AND PREPARED BY: MAYNARD & PAQUETTE INC. RECORDED: HCRD - PLAN No. 22437
- AS-BUILT & EASEMENT PLAN, LOT 5 / MAP 7, MULDOON STREET, HUDSON, NEW HAMPSHIRE, PREPARED FOR: DAVID FRIEL & SOUTHERN NH WATER CO., SCALE: 1" = 20', DATED: SEPTEMBER 11, 1990 WITH REVISIONS THRU 10/09/90 AND PREPARED BY: MAYNARD & PAQUETTE, INC. RECORDED: HCRD - PLAN No. 24794
- CONSOLIDATION & RE-SUBDIVISION PLAN OF LANDS, FRIEL, SMITH & WAL-MART STORES, INC. HUDSON, NEW HAMPSHIRE, SCALE: 1" = 100', DATED: 3-5-91 WITH REVISIONS THRU 7-22-91, AND PREPARED BY: HOLDEN ENGINEERING & SURVEYING, INC. RECORDED: HCRD - PLAN No. 25273
- THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, RIGHT OF WAY, PLANS OF PROPOSED NASHUA - HUDSON CIRCUMFERENTIAL HIGHWAY, NH PROJECT No. 10644A, AND PREPARED BY: DELEUW, CATHER & COMPANY, DATED: MAY 1989. ON FILE IN THE RECORDS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

PERMITS:

- NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES ALTERATION OF TERRAIN PERMIT No. Aot-____, DATE ISSUED: _____
 - NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES WETLANDS BUREAU APPROVAL No. _____, DATE ISSUED: _____
- NOTE: THE CONTRACTOR SHALL COMPLY WITH ALL STIPULATIONS AND CONDITIONS OF PERMITS AND APPROVALS.

NOTE
 SEE SHEET 2 OF 17 FOR VICINITY PLAN, LEGEND, ABUTTERS AND ADDITIONAL INFORMATION.

NOTES:

- TOTAL SITE AREA (PRIOR TO SUBDIVISION):
 MAP 234, LOT 5 48.024 ACRES
 MAP 234, LOT 34 13.729 ACRES
 MAP 234, LOT 35 13.246 ACRES
 MAP 239, LOT 1 324.12± ACRES
 TOTAL: 399.12± ACRES
- PRESENT ZONING: G-1; GENERAL-ONE BUSINESS; B; BUSINESS; G-1 B
- MINIMUM LOT REQUIREMENTS:
 - LOT AREA 87,120 SF 43,560 SF
 - LOT FRONTAGE 120 FT 150 FT
- MINIMUM BUILDING SETBACKS REQUIREMENTS
 - FRONT YARD (LOCAL STREETS) 30 FT 50 FT
 - FRONT YARD (ARTERIAL STREETS) 50 FT 50 FT
 - SIDE YARD 15 FT 15 FT
 - REAR YARD 15 FT 15 FT
- PURPOSE OF PLAN:
 A. TO SHOW THE DEDICATION OF PUBLIC RIGHT OF WAY FOR GREEN MEADOW DRIVE UPON MAP 239, LOT 1, AND MAP 234, LOTS 5, 34 & 35.
 B. TO RELOCATE THE LOT LINES BETWEEN MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1.
 C. TO CREATE A NEW LOT MAP 239, LOT 1.
- CONSTRUCTION ACTIVITIES INVOLVING THE PROPOSED UNDEVELOPED LOTS SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 AM AND 7:00 PM, MONDAY THROUGH SATURDAY.
- SURVEY CONTROL DATA:
 HORIZONTAL DATUM: NAD83(1989)
 HORIZONTAL PROJECTION: NH STATE PLANE
 VERTICAL DATUM: NGVD29 (FORMERLY KNOWN AS USGS DATUM)
 UNITS: US SURVEY FEET
 * HORIZONTAL AND VERTICAL DATUMS WERE VERIFIED USING G.P.S. (KEYNET NETWORK) WITH OBSERVATIONS ON SITE AND ON NGS (FORMERLY USGS) "DISK D-26" LOCATED ON THE NORTHERLY SIDE OF NH ROUTE 101A, APPROXIMATELY 4.5 MILES WEST OF THE NASHUA LIBRARY.
- LOT NUMBERS REFER TO THE TOWN OF HUDSON ASSESSORS MAPS 227, 228, 233, 234, 239, 240, 245 & 246 AND NASHUA MAP A.
- LOTS ARE TO BE SERVICED BY TOWN WATER AND TOWN SEWER AND/OR ON-SITE SEPTIC SYSTEMS.
- STREET ADDRESSES TO BE ACQUIRED FROM THE HUDSON FIRE DEPARTMENT PRIOR TO THE ISSUANCE OF ANY BUILDING PERMIT.
- IRON PINS TO BE SET AT ALL LOT CORNERS AND STONE BOUNDS TO BE SET ALL POINTS OF TANGENCY AND CURVATURE ON THE RIGHT-OF-WAY BY A LICENSED LAND SURVEYOR PRIOR TO THE ISSUANCE OF CERTIFICATES OF OCCUPANCY.
- WETLAND DELINEATION BY GOVE ENVIRONMENTAL SERVICES, INC. AND FLAG LOCATIONS WERE SURVEYED BETWEEN APRIL 2006 AND FEBRUARY 2020 BY HAYNER/SWANSON, INC.
- THIS PLAN SET CONTAINS SEVENTEEN (17) SHEETS. SHEETS 1 THRU 10 OF 17 SHALL BE RECORDED AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. REMAINING SHEETS ARE ON FILE AT THE TOWN OF HUDSON, NH PLANNING DEPT.
- PORTIONS OF THIS PARCEL ARE LOCATED WITHIN ZONE AE, ZONE A, ZONE X (SHADED) AND ZONE X AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), HILLSBOROUGH COUNTY, TOWN OF HUDSON, NEW HAMPSHIRE, COMMUNITY No. 330092, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP NUMBERS: 33011C065D & 33011C065D, DATED: SEPTEMBER 25, 2009.
- WAIVER REQUESTED: HUDSON SUBDIVISION REGULATION CHAPTER 89, SECTION 289-18(2) - CUL-DE-SAC LENGTH.
- ALL SIGNS SUBJECT TO APPROVAL BY THE HUDSON PLANNING BOARD PRIOR TO INSTALLATION THEREOF.
- GREEN MEADOW DRIVE SHALL RECEIVE FINAL APPROVAL BY THE TOWN OF HUDSON ENGINEERING AND PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE BY THE BOARD OF SELECTMEN AS A PUBLIC ROAD.
- PRESENT OWNERS OF RECORD:
 MAP 234, LOT 5 & MAP 239, LOT 1: GREENMEADOW GOLF CLUB, INC. 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 BK 5581, PG. 800 & 802 BK 1668, PG. 239 & 241
 MAP 234, LOT 35: 267 LOWELL RD HUDSON, LLC c/o RAM MANAGEMENT CO., LLC 200 US ROUTE 1, SUITE 200 SCARBOROUGH, ME 04070 BK 8710, PG. 944
 LOT 34, MAP 234: THOMAS P. FRIEL & PHILIP J. FRIEL, III 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 BK 5583, PG. 1384

APPROVED BY THE HUDSON, NH PLANNING BOARD

DATE OF MEETING: _____
 CHAIRMAN: _____ SIGNATURE DATE: _____
 SECRETARY: _____ 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.

FOR GREENMEADOW GOLF CLUB, INC.	DATE
THOMAS P. FRIEL	DATE
PHILIP J. FRIEL, III	DATE
FOR 267 LOWELL RD HUDSON, LLC	DATE

CERTIFICATION

I HEREBY CERTIFY, TO MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PLAN SHOWS THE RESULTS OF AN ON THE GROUND "STANDARD PROPERTY SURVEY" AND THAT SAID SURVEY MEETS THE MINIMUM PRECISION AND/OR ACCURACY MEASUREMENTS FOR SURVEY CLASSIFICATION "U" (URBAN) AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS ADOPTED 08/23/01, EFFECTIVE 01/01/09.

I FURTHER CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN FIFTEEN THOUSAND ON ALL PROPERTY LINES WITHIN AND BORDERING THE SUBJECT PROPERTY.

DATE _____ LEE B. GAGNON, LLS

No.	DATE	REVISION	BY
1	07/13/20	ADDRESS TOWN COMMENTS	JNP

MASTER LOT LINE ADJUSTMENT/ SUBDIVISION PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
 PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100
 RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

SCALE: 1"=400 Feet
 1"=121.921 Meters

21 APRIL 2020



3 Congress Street
 Nashua, NH 03062
 (603) 883-2057
 131 Middlesex Turnpike
 Burlington, MA 01803
 (781) 203-1501
 www.hayner-swanson.com

FIELD BOOK: --	DRAWING NAME: 3867L SUB FS71	3867L SUB	1 OF 17
DRAWING LOC: J:\3000\3867\DWG\3867L SUB		File Number	Sheet

ABUTTERS:

MAP 221, LOT 8
1987 TAMPOSI LIMITED PARTNERSHIP
20 TRAFALGAR SQUARE, SUITE 602
NASHUA, NH 03063
BK 7830, PG 0318

MAP 227, LOT 1
FLAGSTONE31 REALTY, LLC
31 FLAGSTONE DRIVE
HUDSON, NH 03051
PG 8928, PG 1423

MAP 227, LOT 2
25 SAGAMORE PARK, LLC
25 SAGAMORE PARK ROAD
HUDSON, NH 03051
BK 8759, PG 2098

MAP 227, LOT 3
COOL CAR STORAGE, LLC
13 JONES ROAD
PELHAM, NH 03076
BK 9262, PG 1443

MAP 227, LOT 4
NASH FAMILY INVESTMENT PROPERTIES
91 AMHERST STREET
NAHSUA, NH 03064
BK 2945, PG 0700

MAP 227, LOT 5
ROBERT MIRABELLA
c/o CET TECH
27 ROULSTON ROAD
WINDHAM, NH 03087
BK 5311, PG 0048

MAP 227, LOT 6
41 SAGAMORE PARK ROAD, LLC
P.O. BOX 689
WINDHAM, NH 03087
BK 8548, PG 0103

MAP 227, LOT 7
TOWN OF HUDSON
12 SCHOOL STREET
HUDSON, NH 03051
BK 5663, PG 0664

MAP 228, LOT 1
M.R.J. REALTY TRUST
c/o MARK R. JAFFE & ALAN G. LAMPERT, TRUSTEES
261 LOWELL ROAD
HUDSON, NH 03051
BK 5671, PG 0773

MAP 228, LOT 5
SAM'S RE BUSINESS TRUST
c/o WAL-MART PROPERTY TAX DEPT.
P.O. BOX 8050, MS 0555
BENTONVILLE, AR 72716-8050
BK 6123, PG 0639

MAP 228, LOT 7 & 8
HUDSON COMMERCIAL ASSOC., LLC
c/o AHOLD FINANCIAL SERVICES
P.O. BOX 6500
CARLISLE, PA 17013
BK 7357, PG 1084

MAP 228, LOT 52
KAREN DEXTER & JILL DIAZ
268 A LOWELL ROAD
HUDSON, NH 03051
BK 8054, PG 2081

MAP 228, LOT 54
NEW LIFE CHRISTIAN CHURCH
272 LOWELL ROAD
HUDSON, NH 03051
BK 8833, PG 0830

MAP 234, LOT 1
STEELE FARM, LLC
2 FRIEL GOLF ROAD
HUDSON, NH 03051
BK 5132, PG 0675

MAP 234, LOT 6
GREENMEADOW GOLF CLUB, INC.
55 MARSH ROAD
HUDSON, NH 03051
BK 6942, PG 1212

MAP 234, LOT 7
KENNETH MURPHY
2 LINDA STREET
HUDSON, NH 03051
BK 5283, PG 1842

MAP 234, LOT 8
GERALD R. DESROCHES FAMILY TRUST
c/o J. SCOTT DESROCHES, TRUSTEE
296 DERRY ROAD
HUDSON, NH 03051
BK 6278, PG 0194

MAP 234, LOT 9
PETER R. JR. & THERESA B. GOYETTE
2 DRACUT ROAD
HUDSON, NH 03051
BK 6168, PG 0218

MAP 234, LOT 10
DAVID R. DUNN
8 LINDA STREET
HUDSON, NH 03051
BK 7151, PG 1545

MAP 234, LOT 11
SEAN P. & TINA M. STEVENS
10 LINDA STREET
HUDSON, NH 03051
BK 6690, PG 1808

MAP 234, LOT 12
MARK TEMPESTA & KRIS MARCOCCIO
12 LINDA STREET
HUDSON, NH 03051
BK 9234, PG 2048

MAP 234, LOT 13
ROY & SYLVIA M. CARROLL
16 LINDA STREET
HUDSON, NH 03051
BK 1846, PG 0170

MAP 234, LOT 14
DON R. & MELISSA E. WONG
18 LINDA STREET
HUDSON, NH 03051
BK 7862, PG 0478

MAP 234, LOT 33
ANNETTE CRAWFORD, TR. & BRENDA DEAN, TR.
277 LOWELL ROAD
HUDSON, NH 03051
BK 8552, PG 0345

MAP 234, LOT 36
STEVEN J. GENDRON
94 AARON DRIVE
MANCHESTER, NH 03109
BK 8275, PG 1378

MAP 234, LOT 37
JEFFREY S. & MILTON BROWN
3 FRIAR TUCK LANE
NASHUA, NH 03062
BK 6335, PG 1708

MAP 240, LOT 1
JOANNE E. WALSH
2 EAGLE DRIVE
HUDSON, NH 03051
BK 4581, PG 0066

MAP 240, LOT 2
JAMES M. & MARIE A. DOBENS
4 EAGLE DRIVE
HUDSON, NH 03051
BK 2978, PG 0585

MAP 240, LOT 3
CRAIG C. & COURTNEY M. PROULX
6 EAGLE DRIVE
HUDSON, NH 03051
BK 8731, PG 0627

MAP 240, LOT 4
JONATHAN & LAURA L. FONTAINE
8 EAGLE DRIVE
HUDSON, NH 03051
BK 8652, PG 0479

MAP 240, LOT 5
BRIAN C. NOONE
10 EAGLE DRIVE
HUDSON, NH 03051
BK 8415, PG 2621

MAP 240, LOT 6
JOSEPH M. & LAUREN E. DIPILATO
12 EAGLE DRIVE
HUDSON, NH 03051
BK 8374, PG 0592

MAP 240, LOT 13-1
DWARKAMAI, INC.
1167 LAKEWOOD CIRCLE
NAPERVILLE, IL 60540
BK 8849, PG 2437

MAP 245, LOT 12
RICHARD R. & AUDERY S. LEBOURDAIS
23 FAIRWAY DRIVE
HUDSON, NH 03051
BK 8578, PG 1327

MAP 245, LOT 13
JOHN & SAMANTHA KING
21 FAIRWAY DRIVE
HUDSON, NH 03051
BK 8893, PG 2772

MAP 245, LOT 14
LEONARD J. & JOHANNAH M. LEONE
19 FAIRWAY DRIVE
HUDSON, NH 03051
BK 5871, PG 1106

MAP 245, LOT 15
ROBERT J. & BARBARA COSTELLO
17 FAIRWAY DRIVE
HUDSON, NH 03051
BK 4308, PG 0086

MAP 245, LOT 16
PHILLIP G. & ANGELA M. VOLK
15 FAIRWAY DRIVE
HUDSON, NH 03051
BK 7733, PG 2713

MAP 245, LOT 17
TIMOTHY A. & MUJ-JANE L. MONK
13 FAIRWAY DRIVE
HUDSON, NH 03051
BK 8584, PG 0787

MAP 246, LOT 36
SURRI D. & KATHLEEN M. SAKATI
11 FAIRWAY DRIVE
HUDSON, NH 03051
BK 5487, PG 1314

MAP 246, LOT 37
DAVID R. GOSSELIN &
SUSAN BATES-GOSSELIN
9 FAIRWAY DRIVE
HUDSON, NH 03051
BK 7198, PG 0547

MAP 246, LOT 38
SCOTT M. & KIMBERLY M. UBELE
7 FAIRWAY DRIVE
HUDSON, NH 03051
BK 8271, PG 2138

MAP 246, LOT 39
CHRISTOPHER D. MULLIGAN &
DIANE K. SORGENFREI
5 FAIRWAY DRIVE
HUDSON, NH 03051
BK 5497, PG 1354

MAP 246, LOT 40
THE MARSCH FAMILY TRUST
c/o WILLIAM H. & MARTHA E. MARSCH, TRUSTEES
8 FAIRWAY DRIVE
HUDSON, NH 03051 7638, PG 0240

MAP 246, LOT 41
SCOTT J. WADE REVOCABLE TRUST
c/o SCOTT J. WADE, TRUSTEE
1 FAIRWAY DRIVE
HUDSON, NH 03051 8366, PG 0616

NASHUA ABUTTERS

MAP A, LOTS 998 & 999
BOSTON & MAINE CORP.
c/o GUILFORD TRANSPORTATION IND.
IRON HORSE PARK
NORTH BILLERICA, MA 01862

ABUTTERS WITH 200 FT OF PROPERTY

MAP 228, LOT 9
GAIL WILSON
P.O. BOX 7274
NASHUA, NH 03060
BK 8723, PG 1571

MAP 234, LOT 4
EVERETT N. JR., & MITSU COLE
5036 WINGED FOOT AVENUE
SARASOTA FL 34234
BK 5173, PG 0924

MAP 234, LOT 17
ARTHUR & LESLIE A. LIAKOS
9 LINDA STREET
HUDSON, NH 03051
BK 2492, PG 0617

MAP 234, LOT 18
ALEJANDRO ASTACIO
P.O. BOX 242
HUDSON, NH 03051
BK 6978, PG 2736

MAP 234, LOT 24
THE LEONARD & DENISE KINGSLEY REVOCABLE
TRUST AGREEMENT OF FEBRUARY 21, 2002
LEONARD E. & DENISE KINGSLEY, TRUSTEES
10 BRUCE STREET
HUDSON, NH 03051
BK 7074, PG 1815

MAP 234, LOT 25
MISSOUM MOUMENE &
FETHIA FADELA MEDJAHED
7 STEELE ROAD
HUDSON, NH 03051
BK 9125, PG 2639

MAP 234, LOT 31
MICHELLE J. ROBINSON & MARK A. LEDOUX
12 SHEPARD HILL ROAD
BEDFORD, NH 03110
BK 6337, PG 1504

MAP 234, LOT 32
KOMMA HOLDINGS, LLC
28 WINDING ROAD
BEDFORD, NH 03110
BK 8538-0576

MAP 240, LOT 13
VINCENT F. & DEBRA BRACCIO
27 RIVER ROAD
HUDSON, NH 03051
BK 9168, PG 2666

DESIGN PROFESSIONALS

JAMES N. PETROPULOS, P.E.
HAYNER/SWANSON, INC.
3 CONGRESS STREET
NASHUA, NH 03062-3301

LEE B. GAGNON, LLS
HAYNER/SWANSON, INC.
3 CONGRESS STREET
NASHUA, NH 03062-3301

GOVE ENVIRONMENTAL SERVICES, INC.
ATTN: BRENDAN QUIGLEY, CWS
8 CONTINENTAL DRIVE
BUILDING 2, UNIT 'H'
EXETER, NH 03833-7507

JONH D. PLANTE, P.E.
LANGAN ENGINEERING AND ENVIRONMENTAL ENGINEERING SERVICES, INC.
888 BOYLSTON STREET
BOSTON, MA 02116

MICHAEL SZURA, RLA
LANGAN ENGINEERING AND ENVIRONMENTAL ENGINEERING SERVICES, INC.
2700 KELLY ROAD, SUITE 200
WARRINGTON, PA 18976

LEGEND

- NH/HB N.H. HIGHWAY BOUND
- SB STONE BOUND
- FSB FIELD STONE BOUND
- ⊙ LPPN IRON PIN
- ⊙ LPIPE IRON PIPE
- STONE BOUND TO BE SET
- IRON PIN TO BE SET
- BUILDING SETBACK LINE
- WETLAND FLAGGING LIMIT (2017-2020)
- WETLAND FLAGGING LIMIT (2006)
- WETLAND BUFFER LINE
- NHDES SHORELAND PROTECTION DISTRICT
- WIRE FENCE
- CHAINLINK FENCE
- CURBING
- EDGE OF PAVEMENT
- PROPERTY LINE
- RIGHT OF WAY LINE
- FLOOD ZONE
- ZONE LINE

WETLAND NOTES:

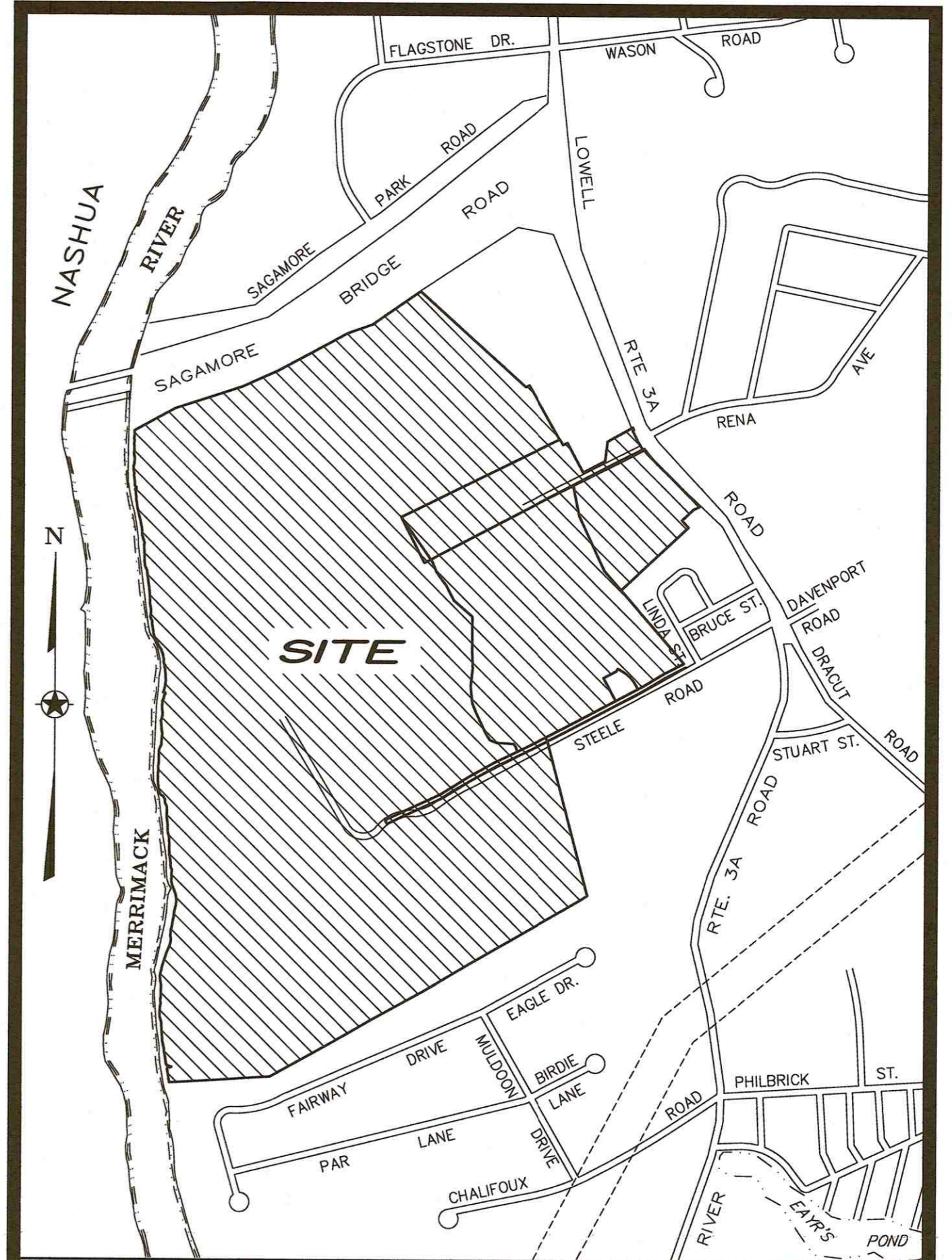
WETLANDS WERE DELECTATED BY GOVE ENVIRONMENTAL SERVICES, INC. BETWEEN NOVEMBER 2017 AND APRIL 2020 UTILIZING THE FOLLOWING STANDARDS:

- REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
- FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.0. UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
- NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2018 VERSION 4. FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA.
- NATIONAL WETLAND PLANT LIST, VERSION 3.2 (2016).

ALL FLAGS WERE LOCATED BY HAYNER/SWANSON, INC USING EITHER GPS UNIT AT TIME OF FLAGGING OR FIELD LOCATED BETWEEN NOVEMBER 2017 AND APRIL 2020. WETLANDS DEPICTED OUTSIDE THE PROJECT AREA WERE OBTAINED FROM 2006 RECORD PLANS.

THIS IS TO CERTIFY THAT THE WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH THE WITH THE U.S. ARMY CORPS OF ENGINEERS JANUARY 2012 REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST (REGION 2).

WETLAND DELINEATION PREPARED BY:
GOVE ENVIRONMENTAL SERVICES
BRENDAN J. QUIGLEY
CERTIFIED WETLAND SCIENTIST (#249)



VICINITY MAP SCALE: 1" = 1,000'

No.	DATE	REVISION	BY
1	07/13/20	ADDRESS TOWN COMMENTS	JNP

ABUTTERS, NOTES AND LEGEND PLAN
(MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
LOWELL AND STEELE ROADS
HUDSON, NEW HAMPSHIRE
PREPARED FOR: **LANGAN**
888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100
RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

NO SCALE

21 APRIL 2020

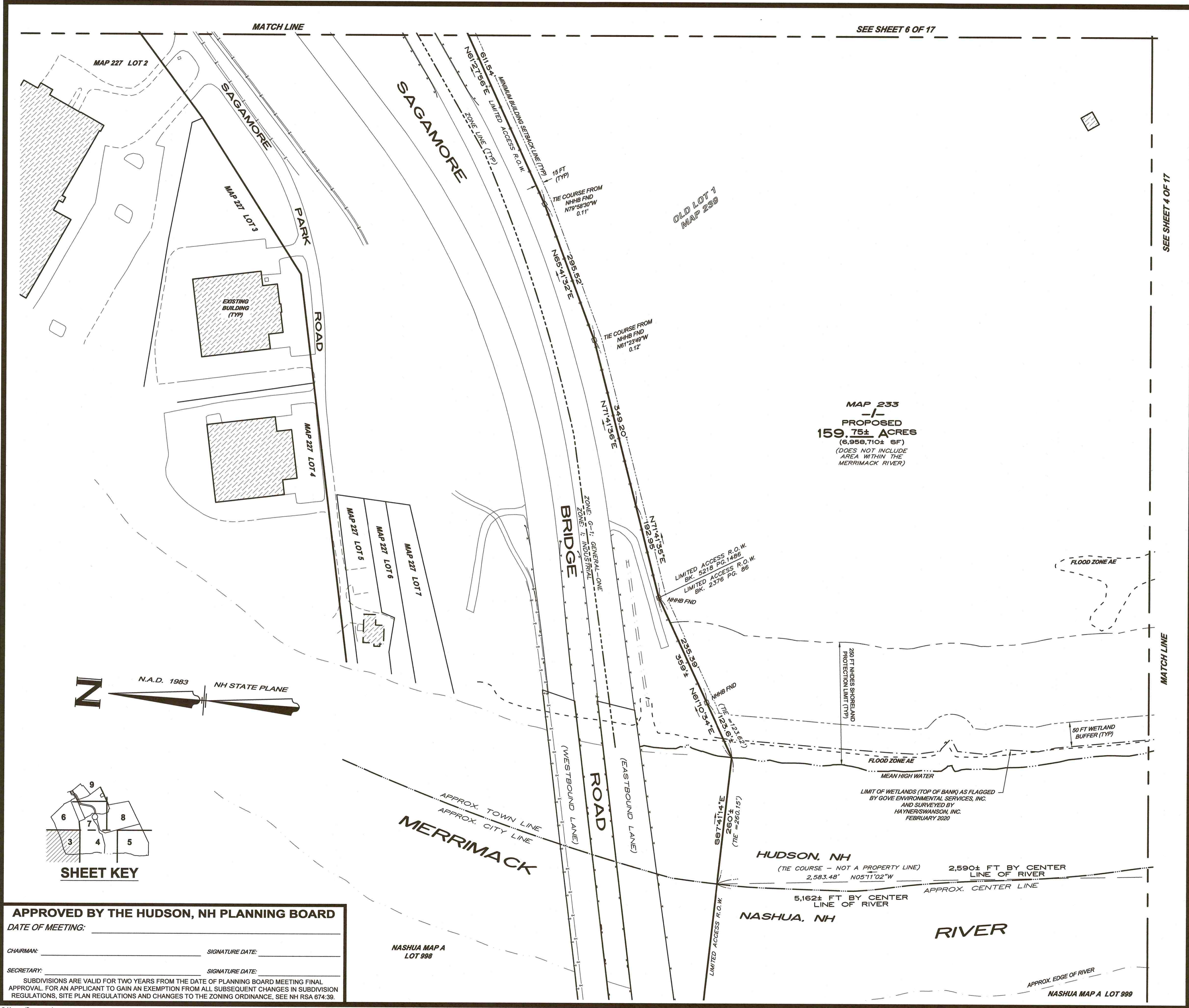


APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

CHAIRMAN: _____ SIGNATURE DATE: _____

SECRETARY: _____ 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.

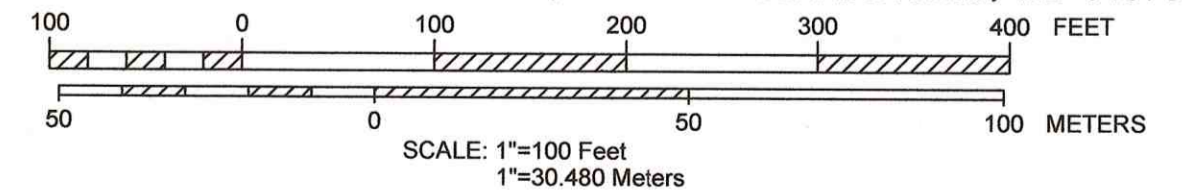


SEE SHEET 4 OF 17

MATCH LINE

No.	DATE	ADDRESS TOWN COMMENTS	REVISION	BY
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LOT LINE ADJUSTMENT/SUBDIVISION PLAN
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21 APRIL 2020

HSI Hayner/Swanson, Inc.
Civil Engineers/Land Surveyors
3 Congress Street
Nashua, NH 03062
(603) 883-2057
131 Middlesex Turnpike
Burlington, MA 01803
(781) 203-1501
www.hayner-swanson.com

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SEE SHEET 7 OF 17

MATCH LINE

SEE SHEET 8 OF 17

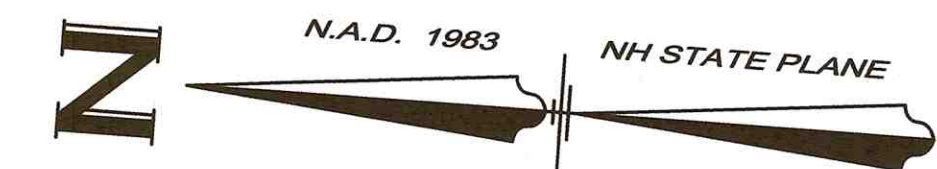
MAP 234
-/-
PROPOSED
111.516 ACRES
(4,857,647 SF)

MAP 233
-/-
PROPOSED
159.75± ACRES
(6,958,710± SF)
(DOES NOT INCLUDE
AREA WITHIN THE
MERRIMACK RIVER)

OLD LOT 1
MAP 239

OLD LOT 1
MAP 239

MAP 239
-/-
PROPOSED
95.68± ACRES
(4,167,980± SF)
(DOES NOT INCLUDE
AREA WITHIN THE
MERRIMACK RIVER)



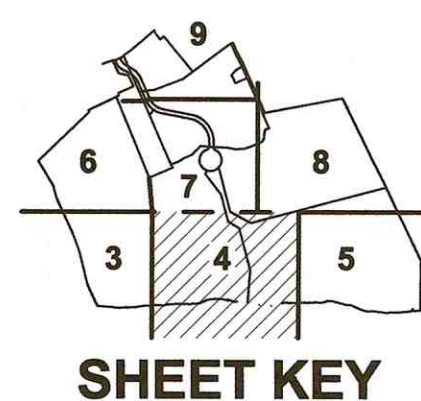
SEE SHEET 3 OF 17

SEE SHEET 5 OF 17



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SHEET KEY

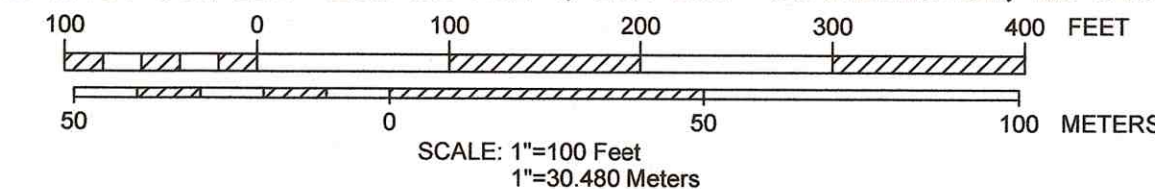
NASHUA MAP A LOT 999

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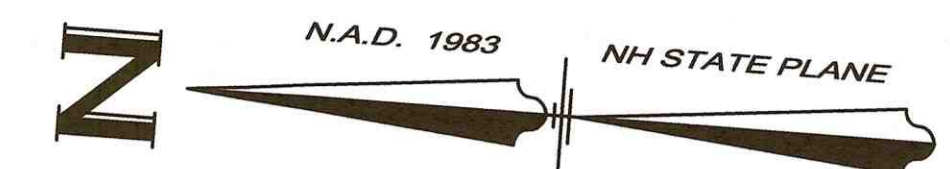
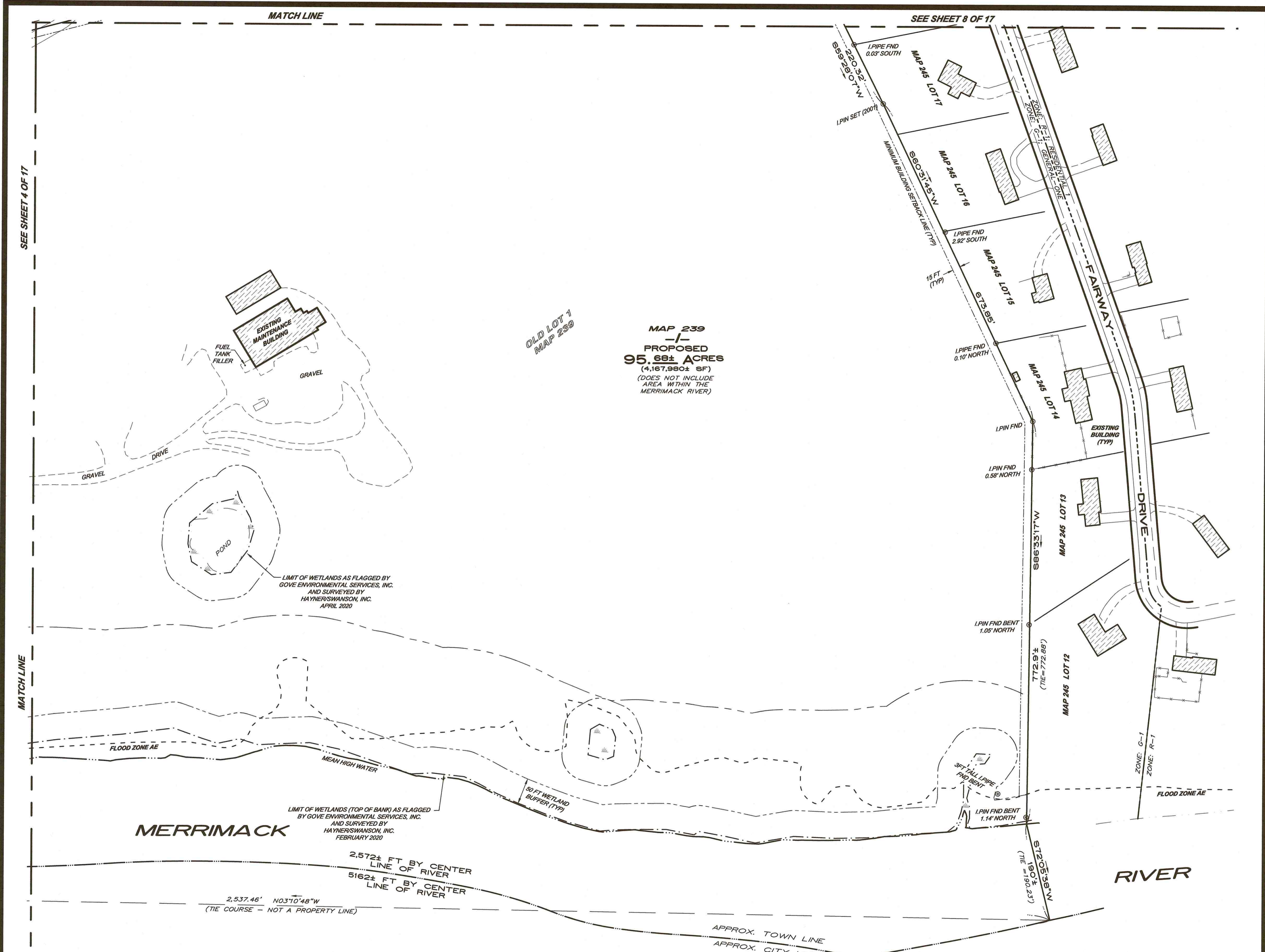


21 APRIL 2020



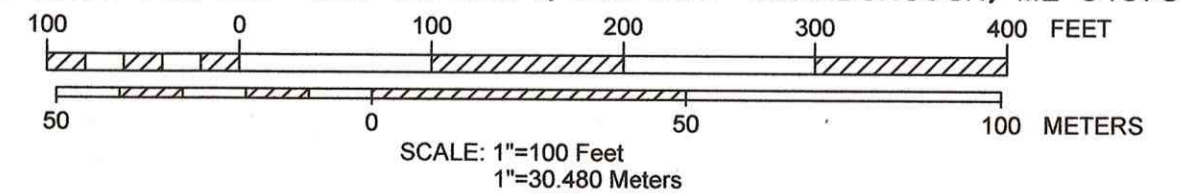
3 Congress Street
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FIELD BOOK: --	DRAWING NAME: 3867L SUB FS61	3867L SUB	4 OF 17
DRAWING LOC: J:\3000\3867\DWG\3867L SUB		File Number	Sheet



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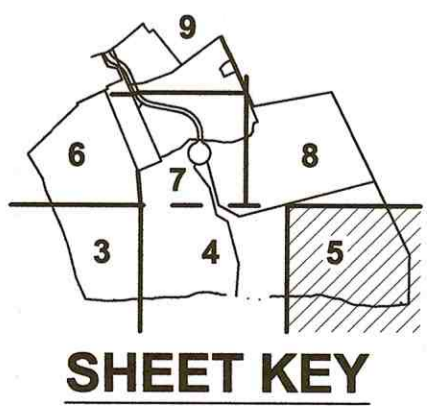
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21 APRIL 2020

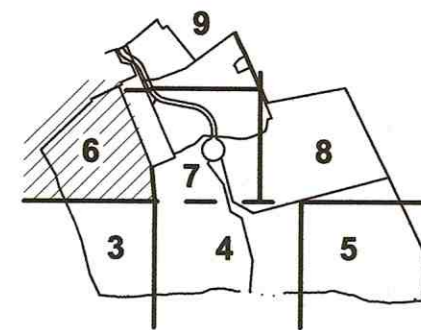
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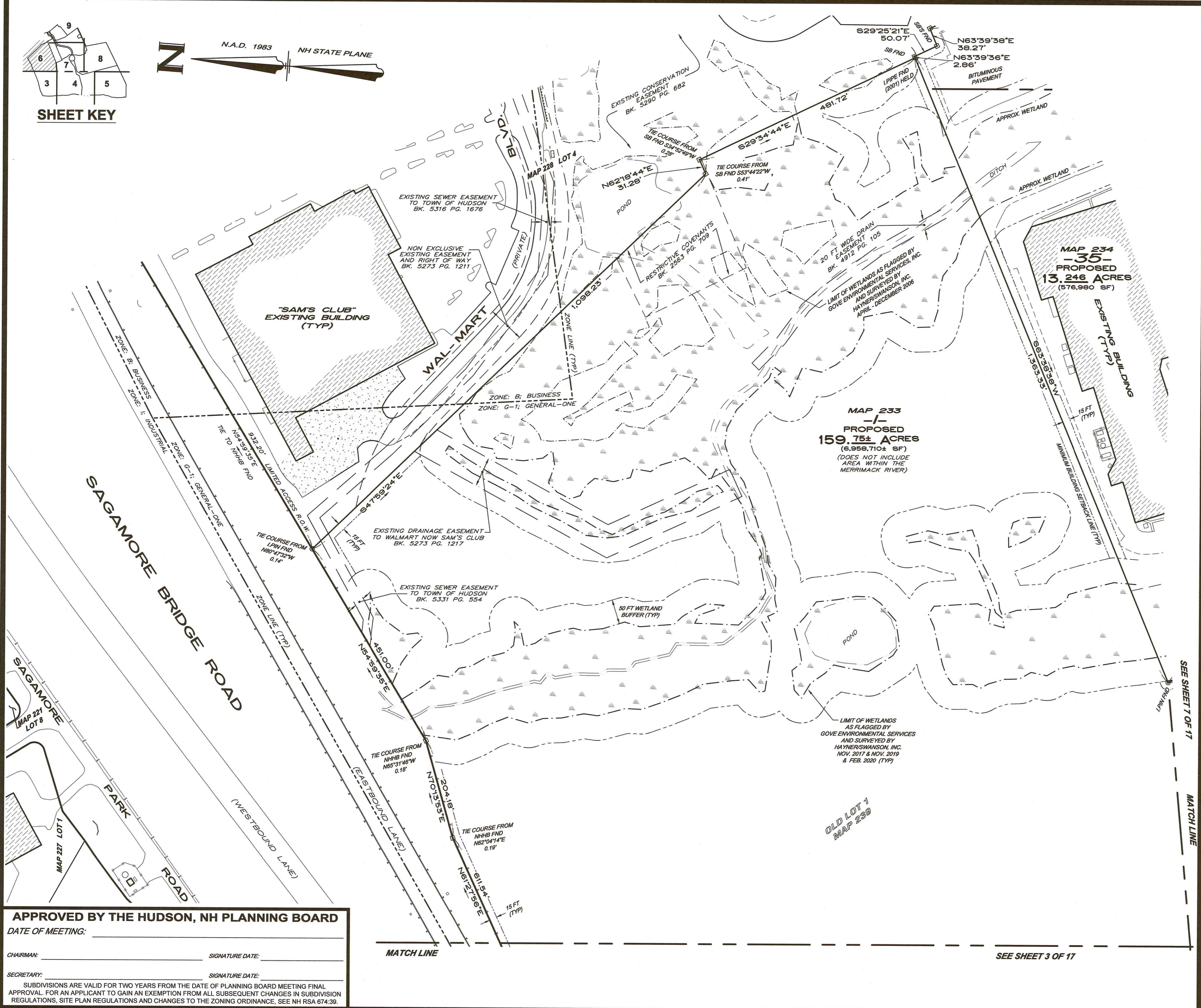
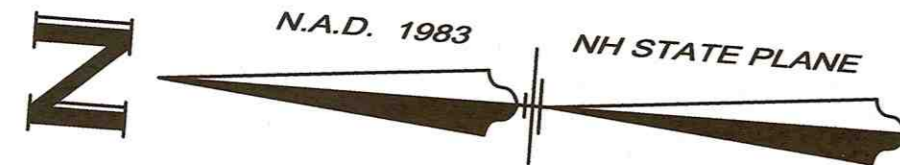


SHEET KEY

NASHUA MAP A LOT 999



SHEET KEY



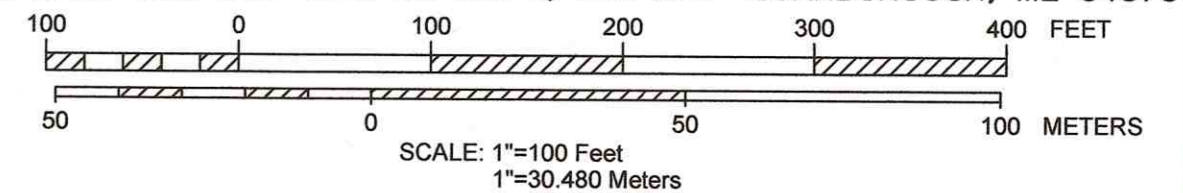
SEE SHEET 7 OF 17
MATCH LINE

SEE SHEET 3 OF 17

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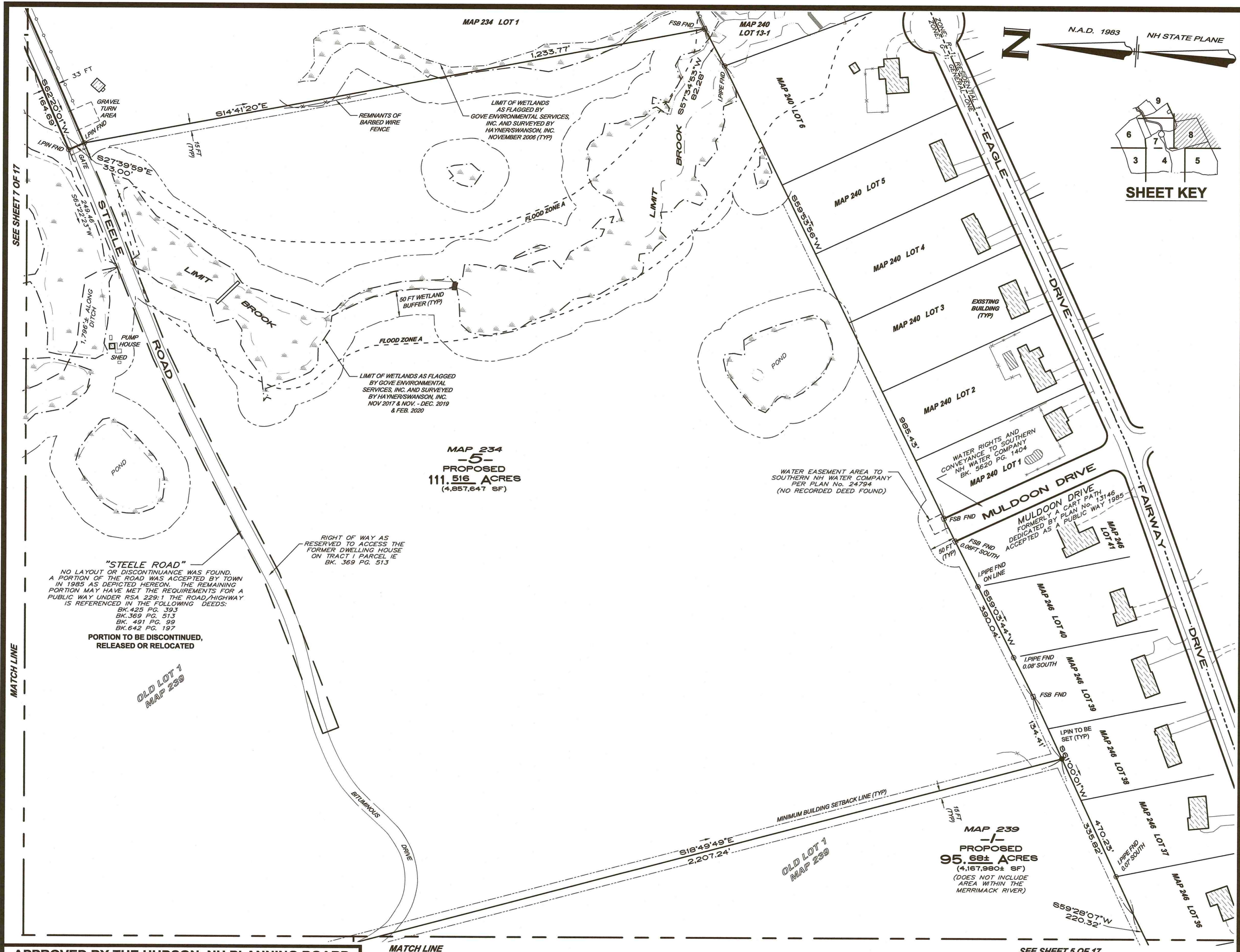
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21 APRIL 2020

HSI Hayner/Swanson, Inc.
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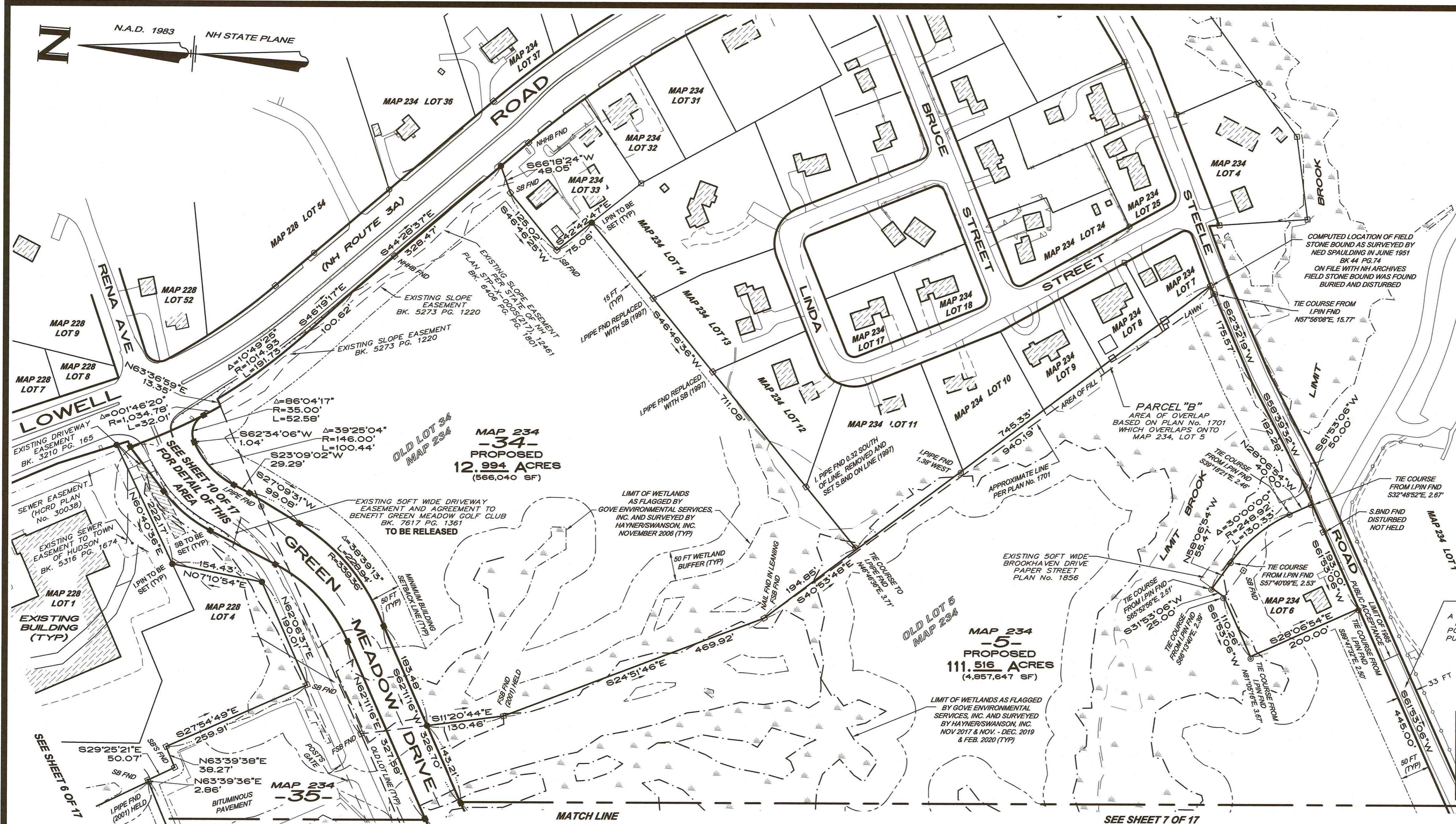
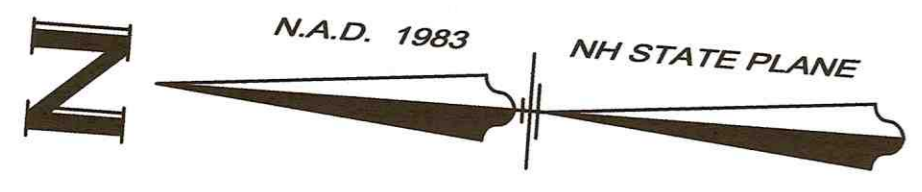
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SCALE: 1"=100 Feet
 1"=30.480 Meters

21 APRIL 2020

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FIELD BOOK: --- DRAWING NAME: 3867L_SUB FS61 3867L SUB 8 OF 17
 DRAWING LOC.: \\3000\3867\DWG\3867L SUB File Number Sheet



COMPUTED LOCATION OF FIELD STONE BOUND AS SURVEYED BY NED SPAULDING IN JUNE 1951 BK 44 PG.74 ON FILE WITH NH ARCHIVES FIELD STONE BOUND WAS FOUND BURIED AND DISTURBED

TIE COURSE FROM I/PIN FND N57°56'08"E, 15.77'

TIE COURSE FROM I/PIN FND S32°48'52"E, 2.67'

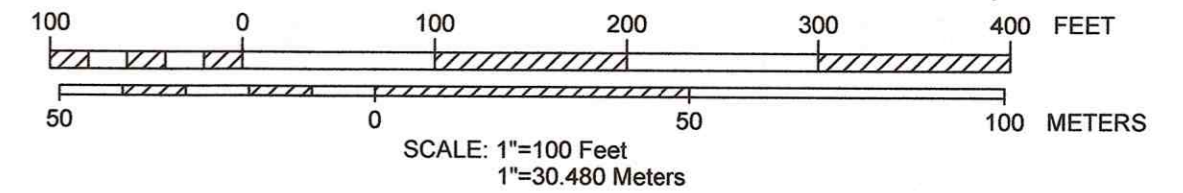
S.BND FND DISTURBED NOT HELD

"STEEL ROAD" NO LAYOUT OR DISCONTINUANCE WAS FOUND. A PORTION OF THE ROAD WAS ACCEPTED BY TOWN IN 1985 AS DEPICTED HEREON. THE REMAINING PORTION MAY HAVE MET THE REQUIREMENTS FOR A PUBLIC WAY UNDER RSA 229:1 THE ROAD/HIGHWAY IS REFERENCED IN THE FOLLOWING DEEDS:
 BK. 425 PG. 393
 BK. 359 PG. 513
 BK. 491 PG. 99
 BK. 642 PG. 197

PORTION TO BE DISCONTINUED, RELEASED OR RELOCATED

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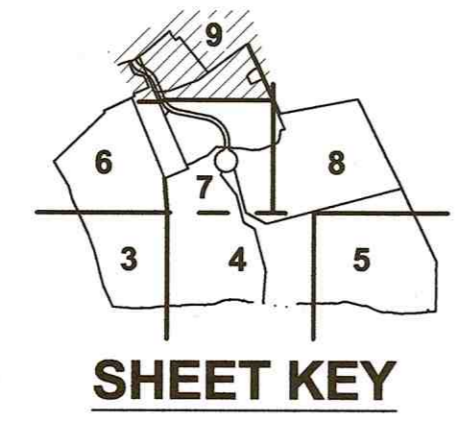
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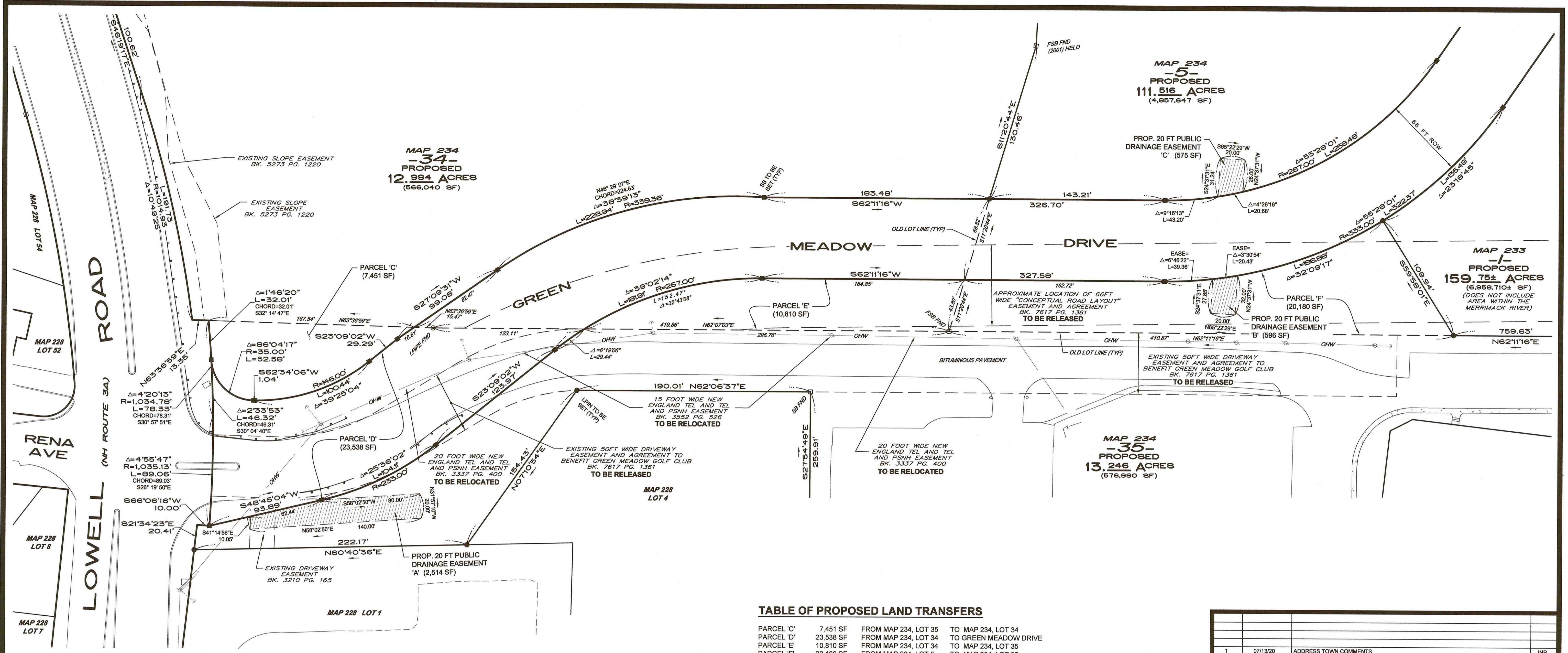
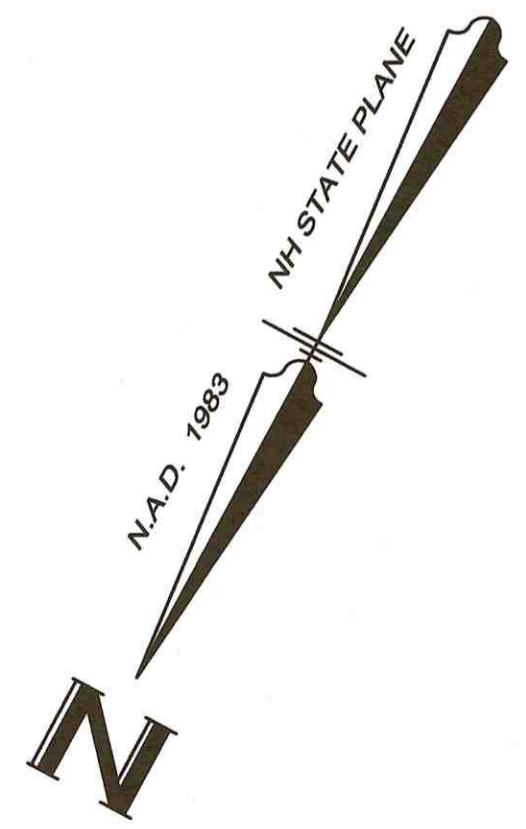


TABLE OF PROPOSED LAND TRANSFERS

PARCEL 'C'	7,451 SF	FROM MAP 234, LOT 35	TO MAP 234, LOT 34
PARCEL 'D'	23,538 SF	FROM MAP 234, LOT 34	TO GREEN MEADOW DRIVE
PARCEL 'E'	10,810 SF	FROM MAP 234, LOT 34	TO MAP 234, LOT 35
PARCEL 'F'	20,180 SF	FROM MAP 234, LOT 5	TO MAP 234, LOT 35



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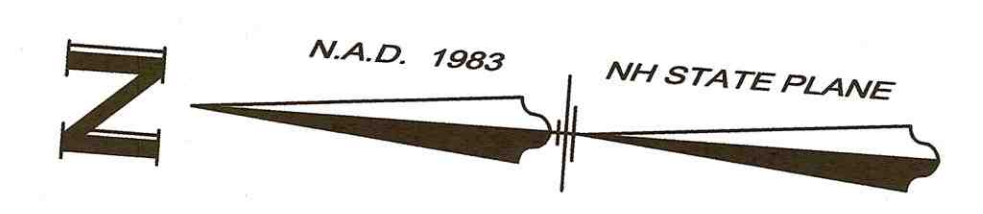
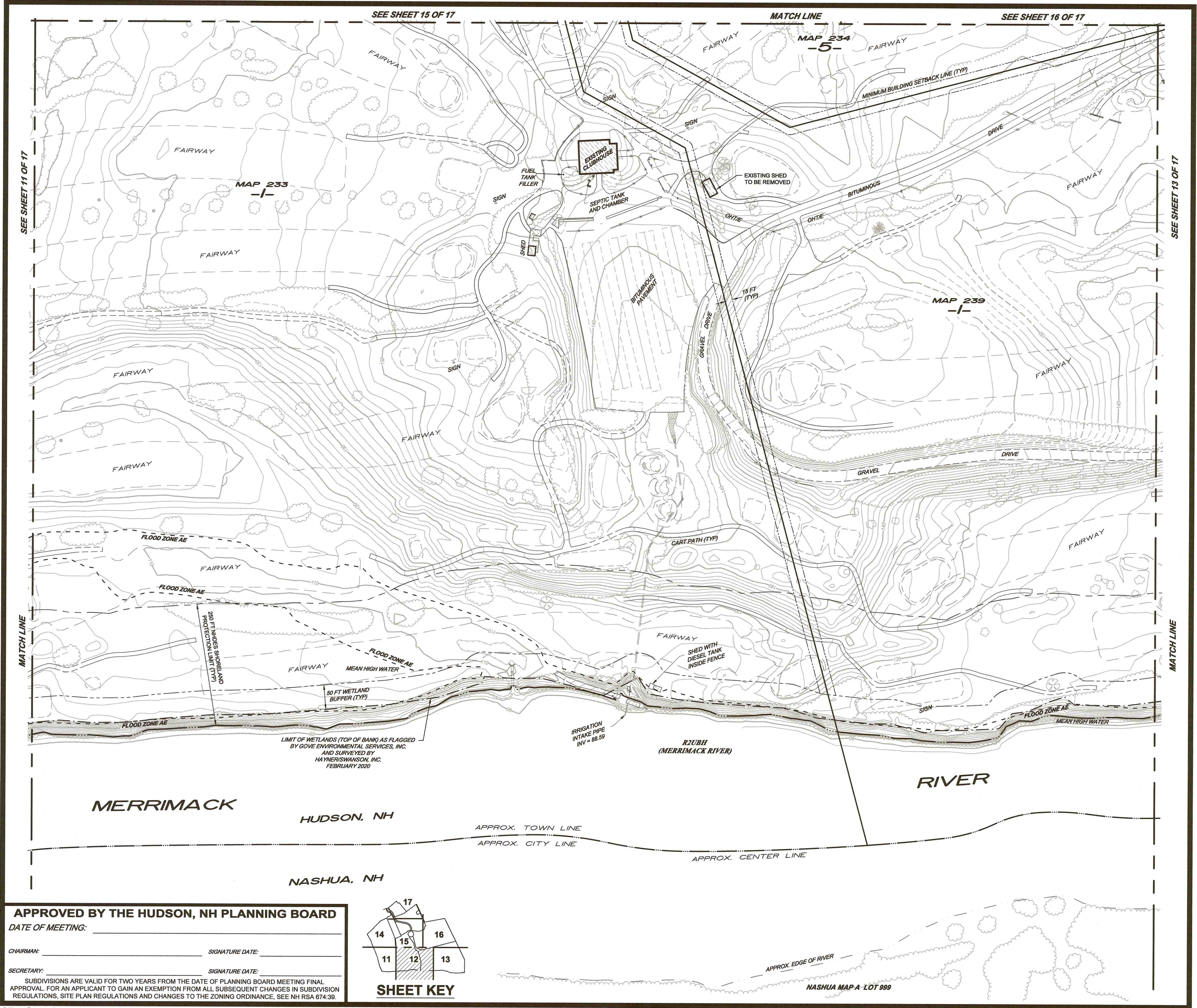
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40 0 40 80 120 160 FEET
 20 0 20 40 METERS
 SCALE: 1"=40 Feet
 1"=12.192 Meters

21 APRIL 2020

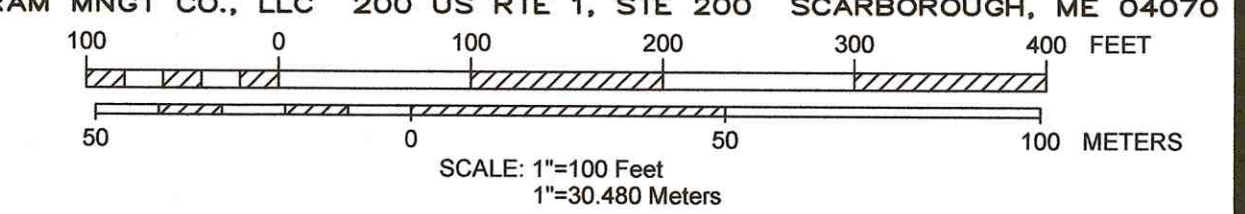
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FIELD BOOK: --- DRAWING NAME: 3867L_SUB FS41 3867L SUB 10 OF 17
 DRAWING LOC.: \\3000\3867\DWG\3867L SUB File Number Sheet



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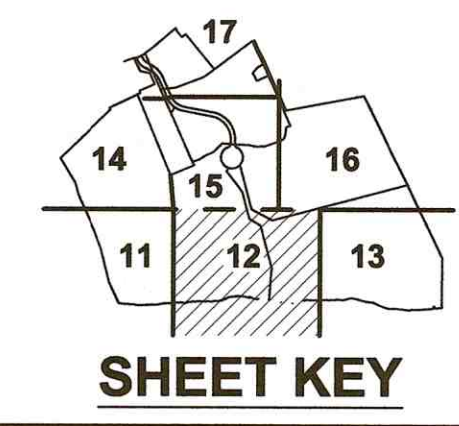
TOPOGRAPHIC SUBDIVISION PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
 PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100
 RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070



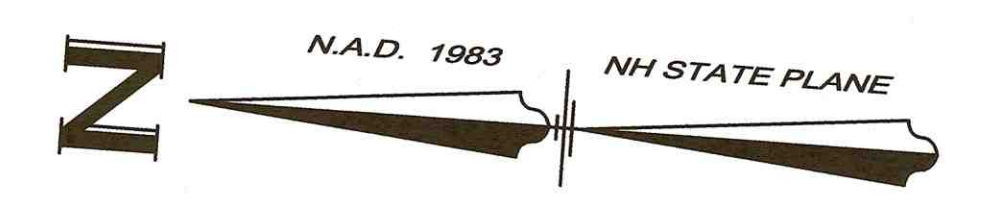
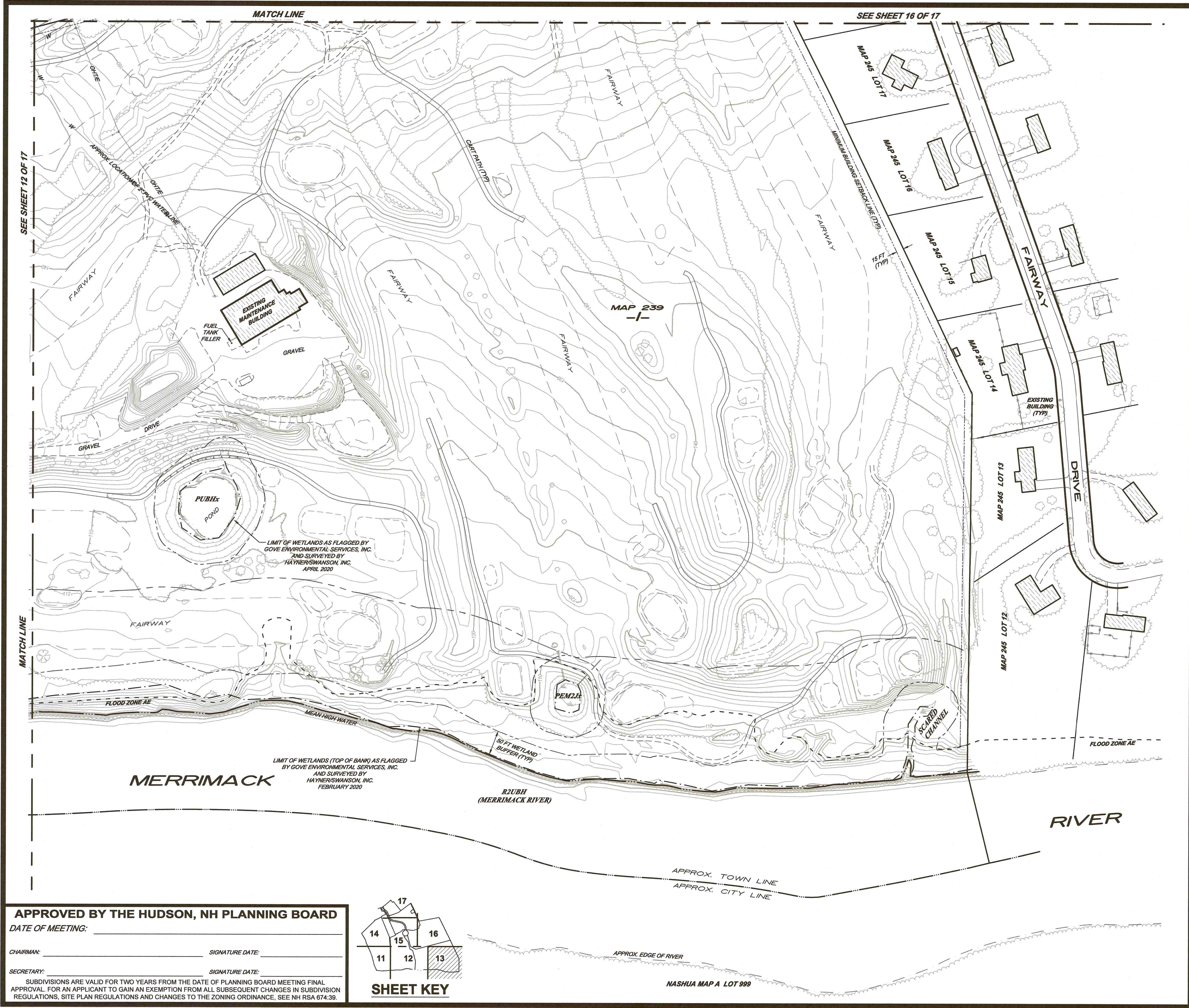
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 Civil Engineers/Land Surveyors
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 Nashua, NH 03062 Burlington, MA 01803
 (603) 883-2057 (781) 203-1501
www.hayner-swanson.com

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SHEET KEY

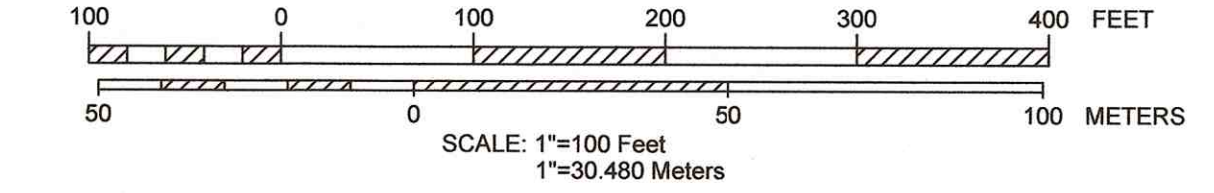


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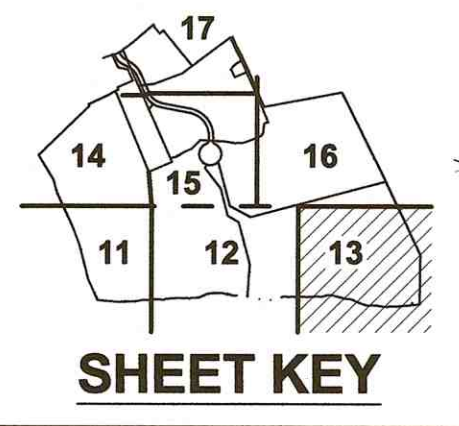


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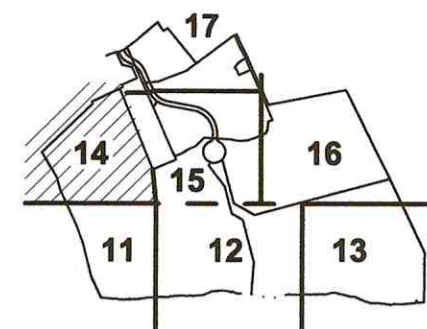
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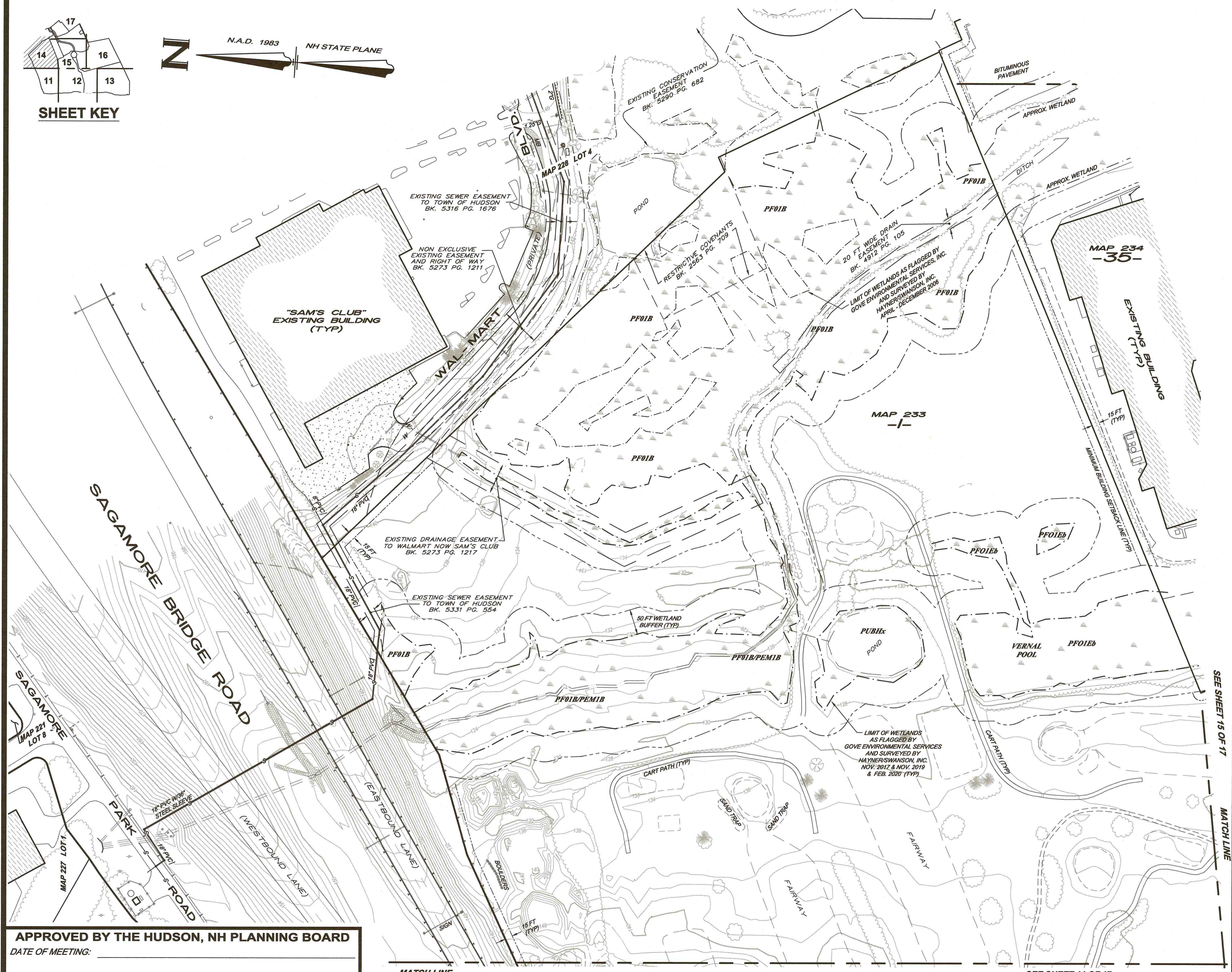
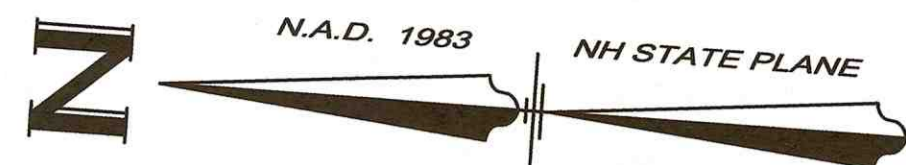


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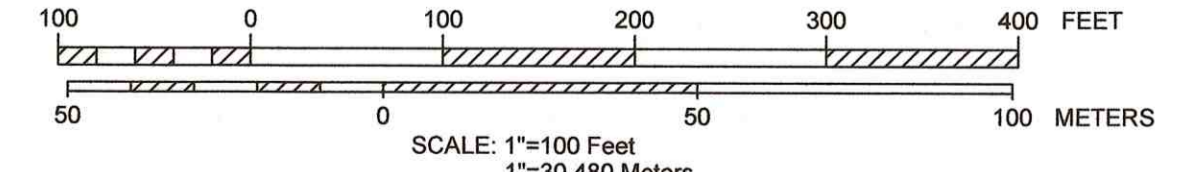


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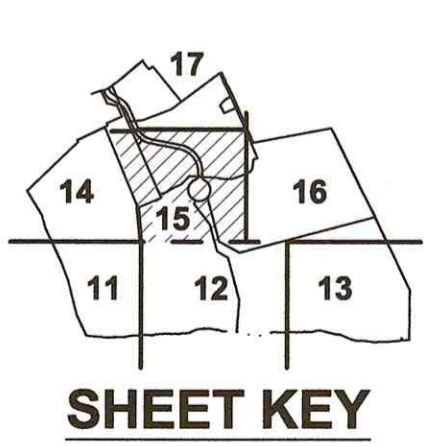
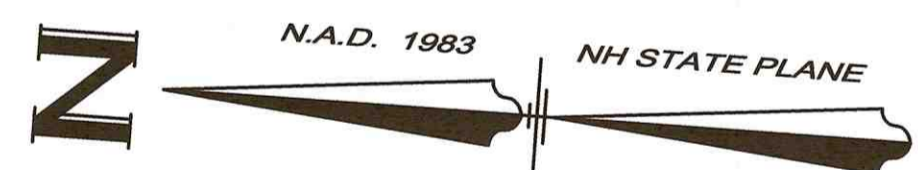
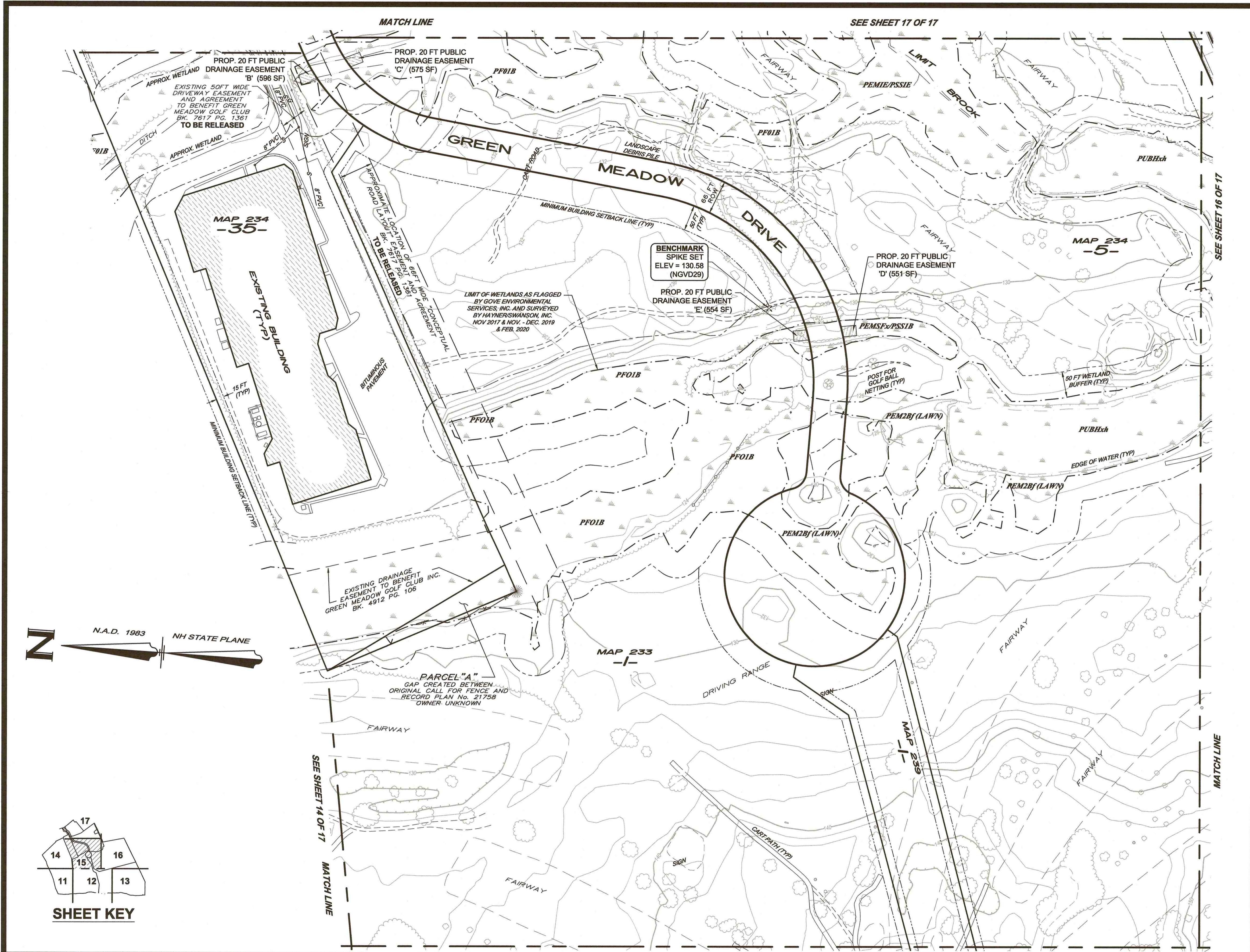
PREPARED FOR: **LANGAN**
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100 0 100 200 300 400 FEET
 50 0 50 100 METERS
 SCALE: 1"=100 Feet
 1"=30.480 Meters

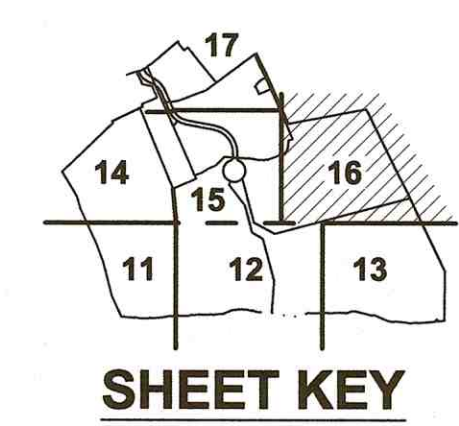
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N.A.D. 1983 NH STATE PLANE



SEE SHEET 15 OF 17

MATCH LINE

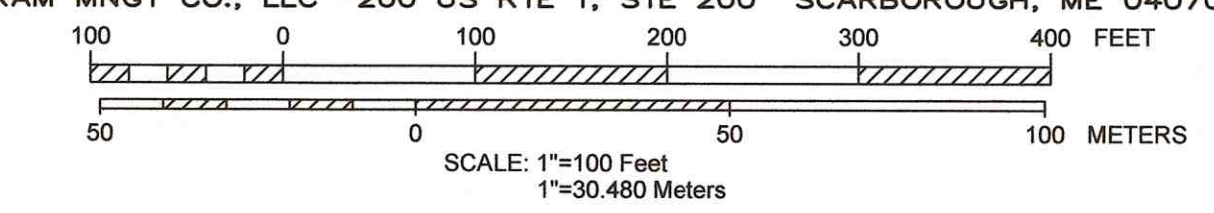
MATCH LINE

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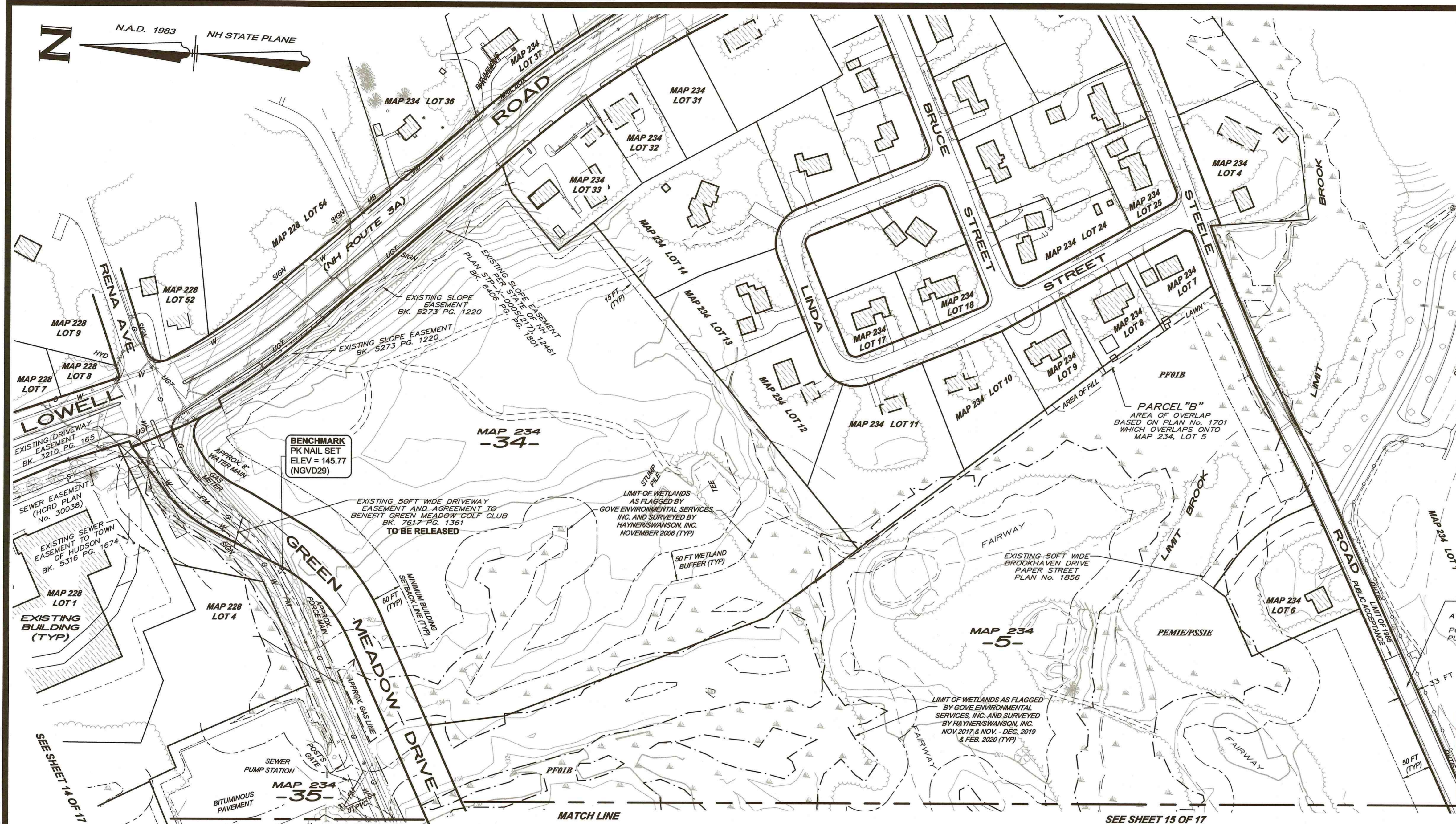
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"STEELE ROAD"
 NO LAYOUT OR DISCONTINUANCE WAS FOUND. A PORTION OF THE ROAD WAS ACCEPTED BY TOWN IN 1985 AS DEPICTED HEREON. THE REMAINING PORTION MAY HAVE MET THE REQUIREMENTS FOR A PUBLIC WAY UNDER RSA 229:1 THE ROAD/HIGHWAY IS REFERENCED IN THE FOLLOWING DEEDS:
 BK. 425 PG. 393
 BK. 368 PG. 513
 BK. 491 PG. 99
 BK. 642 PG. 197
PORTION TO BE DISCONTINUED, RELEASED OR RELOCATED

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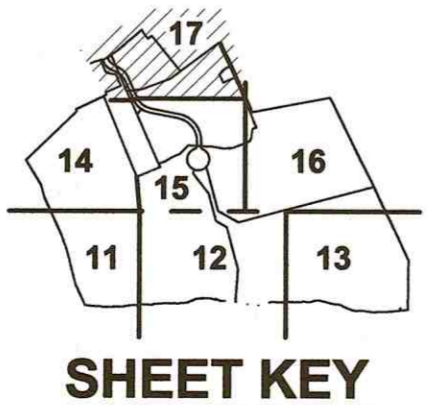
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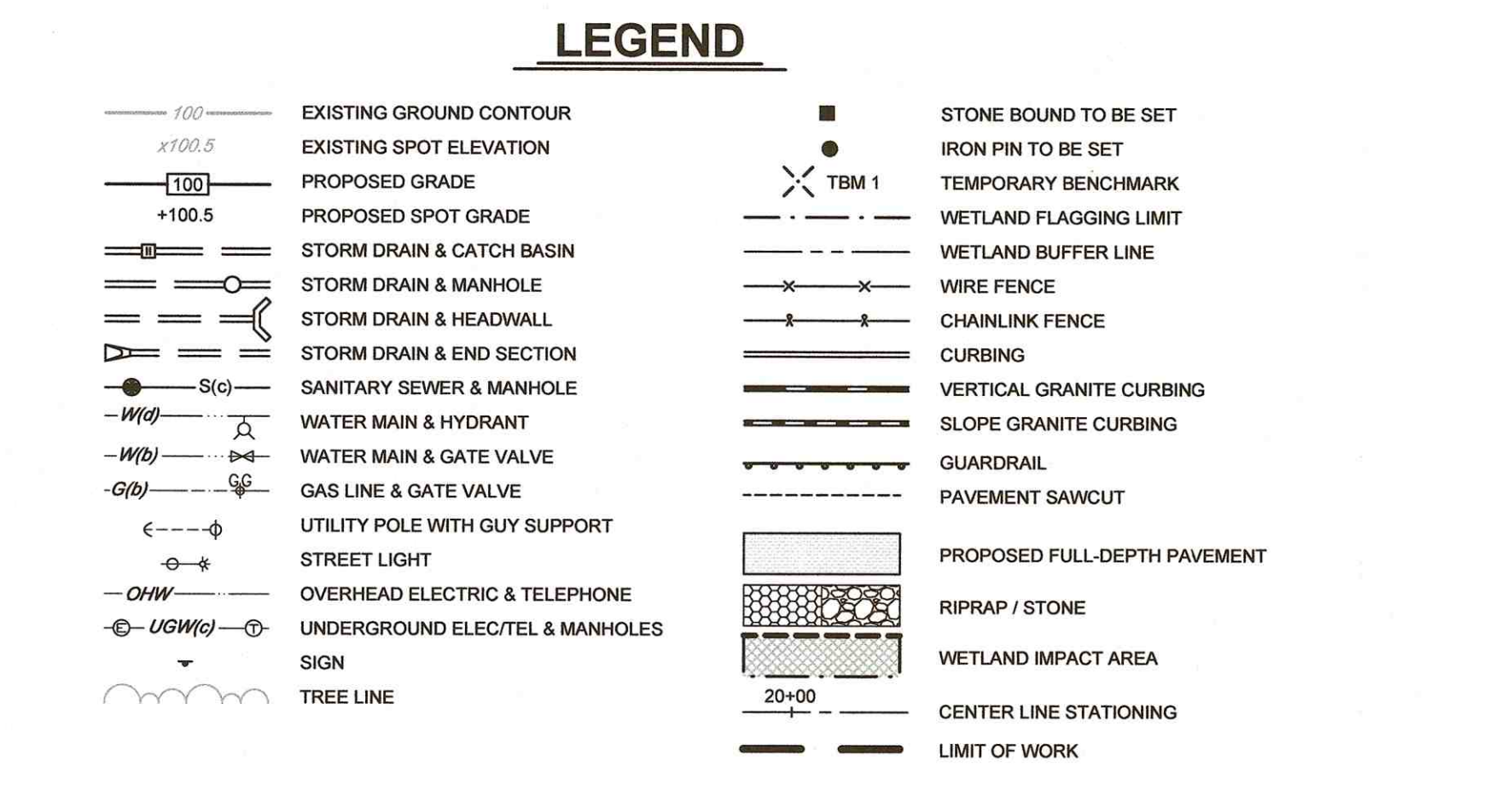
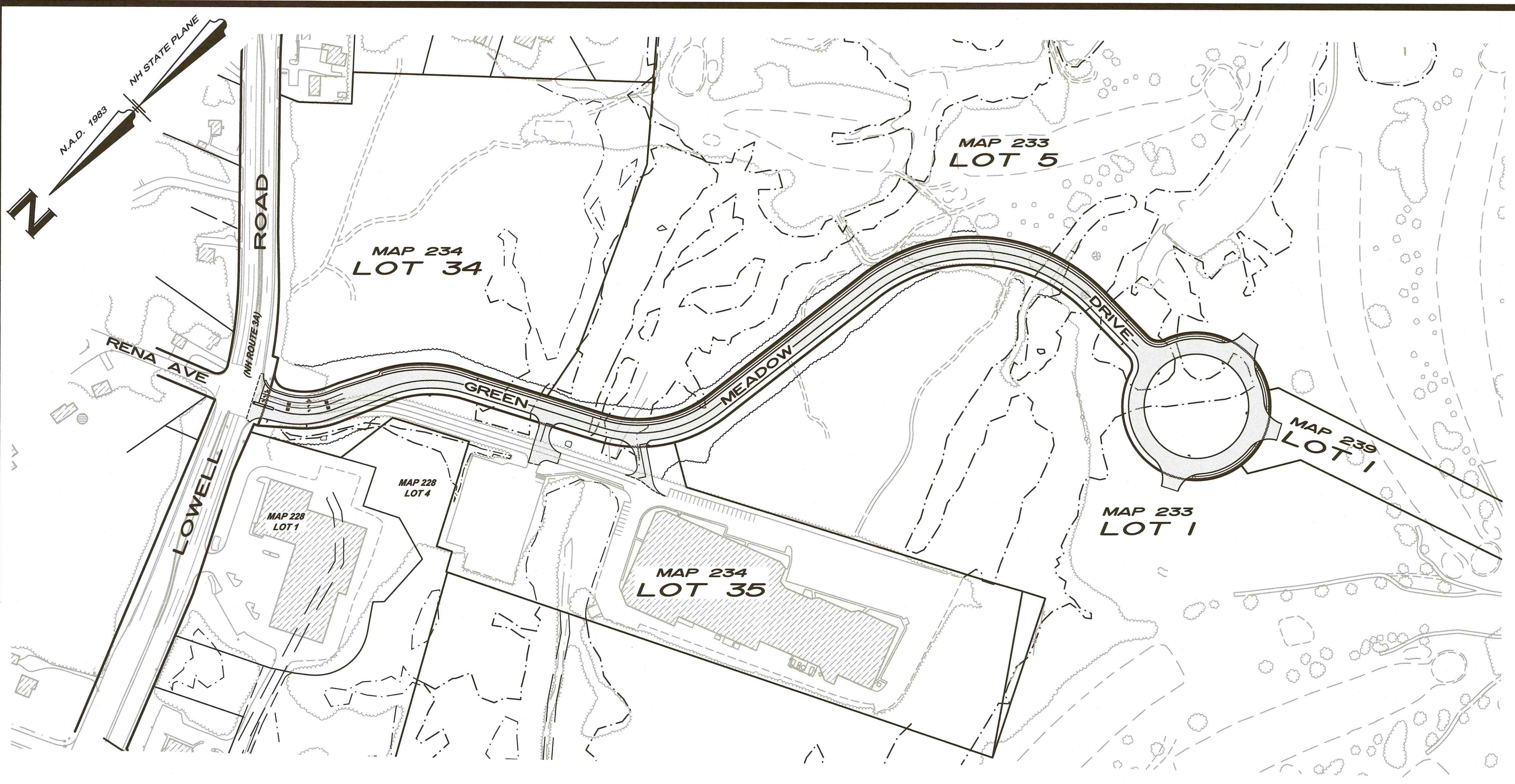
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SHEET KEY



INTERSECTION SIGHT DISTANCE FOR PROPOSED DRIVEWAYS

LOCATION	LOOKING LEFT	LOOKING RIGHT
MAP 234 LOT 35 (EAST)	285 FT	340 FT
MAP 234 LOT 35 (WEST)	400+ FT	400+ FT
MAP 233 LOT 1 *	310+ FT	N/A
MAP 239 LOT 1 *	285+ FT	N/A
MAP 234 LOT 5 *	290+ FT	N/A

* LOOKING LEFT ALONG GREEN MEADOW DRIVE CUL-DE-SAC. INTERSECTION SIGHT DISTANCE MEASUREMENTS WERE PERFORMED IN ACCORDANCE WITH U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "ROUNDABOUTS, AN INFORMATIONAL GUIDE"

PLAN REFERENCE:

SITE PLAN (166 SHEETS) HUDSON LOGISTICS CENTER, HUDSON, NH. PREPARED FOR HILLWOOD, ALLENTOWN, PA, PREPARED BY LANGAN, BOSTON, MA, DATED: 21 APRIL 2020 WITH REVISIONS THRU 13 JULY 2020

TOWN OF HUDSON CONTACTS

PLANNING DEPARTMENT
HUDSON PLANNING DEPT.
12 SCHOOL STREET
HUDSON, NH 03051
ATT: BRIAN GROTH, AICP
LAND USE DIRECTOR
(603) 886-6008

ENGINEERING DEPARTMENT
HUDSON ENGINEERING DEPT.
12 SCHOOL STREET
HUDSON, NH 03051
ATT: ELVIS DHIMA, P.E.
TOWN ENGINEER
(603) 886-6008

FIRE DEPARTMENT
HUDSON FIRE DEPARTMENT
12 SCHOOL STREET
HUDSON, NH 03051
ATT: ROBERT BUXTON, FIRE CHIEF
(603) 886-6021

UTILITY CONTACTS

GAS:
LIBERTY UTILITIES
130 ELM STREET
MANCHESTER, NH 03103
ATT: ANDREW MORGAN
(603) 327-5357

TELEPHONE:
CONSOLIDATED COMMUNICATIONS
257 DANIEL WEBSTER HIGHWAY
MERRIMACK, NH 03054
ATT: HEATHER ARUJOO
(603) 296-5596

POWER:
EVERSOURCE
370 AMHERST STREET
NASHUA, NH 03060
ATT: MARC GAGNON
(603) 882-5894

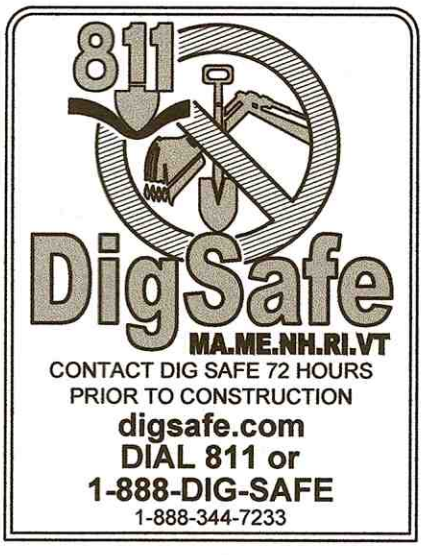
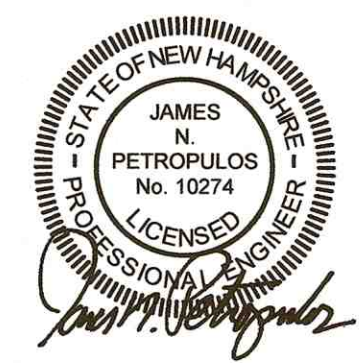
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SURVEY NOTES:

- THE EXISTING TOPOGRAPHY, AS SHOWN ON THE PLANS, IS BASED ON AERIAL PHOTO MAPPING IN 2001 AND LIMITED FIELD TOPOGRAPHY MADE ON THE GROUND BETWEEN MARCH 2004 AND FEBRUARY 2020.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE EXISTING TOPOGRAPHY PRIOR TO EARTHWORK OPERATIONS. NO CLAIM FOR EXTRA WORK DUE TO TOPOGRAPHIC INACCURACY SHALL BE CONSIDERED AFTER EARTHWORK HAS COMMENCED.
- SURVEY CONTROL DATA:
HORIZONTAL DATUM: NAD83(1986)
HORIZONTAL PROJECTION: NH STATE PLANE
VERTICAL DATUM: NGVD29
UNITS: US SURVEY FEET

GENERAL NOTES

- 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 DETAILS. THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, LATEST EDITION AND THE TOWN OF HUDSON ENGINEERING DEPARTMENT, ENGINEERING TECHNICAL GUIDELINES & TYPICAL DETAILS, LATEST EDITION ARE HEREBY INCORPORATED BY REFERENCE.
- 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 IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY HSI, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON.
- THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-344-7233 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR, AT HIS/HER OWN EXPENSE, ANY UNDERGROUND CABLES OR UTILITIES DAMAGED BY HIS/HER OPERATIONS INCLUDING ANY DAMAGE DONE DRIVING HIS/HER EQUIPMENT OVER EXISTING UNDERGROUND CABLES OR UTILITIES.
- TRAFFIC TO MERCURY SYSTEMS (MAP 234, LOT 35) MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SIGNAGE, BARRICADES AND FLAG PERSONS AS REQUIRED FOR TRAFFIC CONTROL. ALL CONSTRUCTION WARNING SIGNS MUST BE ERECTED PRIOR TO BEGINNING CONSTRUCTION.
- BLASTING, IF REQUIRED, SHALL BE PERFORMED BY A LICENSED BLASTING CONTRACTOR MEETING NHDOT AND TOWN OF HUDSON REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND ALL COORDINATION WITH ALL AFFECTED UTILITIES PRIOR TO SCHEDULING BLASTING OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL AND SEED OVER ALL DISTURBED UNPAVED AREAS UNLESS OTHERWISE SPECIFIED.
- STUMPS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- ALL PAVEMENT CUTTING SHALL BE COMPLETED BY SAW-CUTTING ONLY. THE CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT.
- LAYOUT OF THE PROPOSED IMPROVEMENTS INDICATED WITHIN THIS PROJECT SHALL BE CONDUCTED BY A LAND SURVEYOR LICENSED IN THE STATE OF NEW HAMPSHIRE. ALL MONUMENTATION TO BE SET OR AFFECTED BY THE PROJECT SHALL BE REMOVED AND RE-SET BY A LICENSED LAND SURVEYOR.
- CONSTRUCTION HOURS ARE MONDAY THRU SATURDAY, 7:00 AM TO 7:00 PM, WITH NO CONSTRUCTION OCCURRING ON SUNDAYS. BLASTING, IF ANY, SHALL BE LIMITED TO 7:00 AM TO 5:00 PM MONDAY THRU FRIDAY ONLY. BLASTING OR RAMMING ROCK IS PROHIBITED ON SATURDAYS AND SUNDAYS.
- ALL SIGNS ARE SUBJECT TO THE REQUIREMENTS OF THE HUDSON ZONING ORDINANCE AS DETERMINED DURING THE SIGN PERMIT APPLICATION PROCESS.
- ROADWAY LIGHTING SHALL CONFORM WITH THE APPLICABLE TOWN OF HUDSON REGULATIONS.
- IT SHALL BE UNLAWFUL TO MODIFY, CHANGE OR ALTER IMPROVEMENTS AS SHOWN ON THESE PLANS WITHOUT RECEIVING APPROVAL FROM THE TOWN OF HUDSON PLANNING BOARD.
- THE 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.

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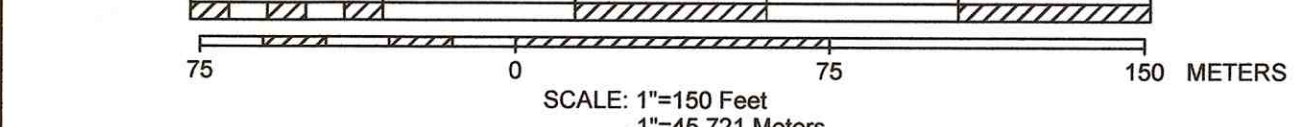
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HUDSON, NEW HAMPSHIRE
PREPARED FOR: **LANGAN**

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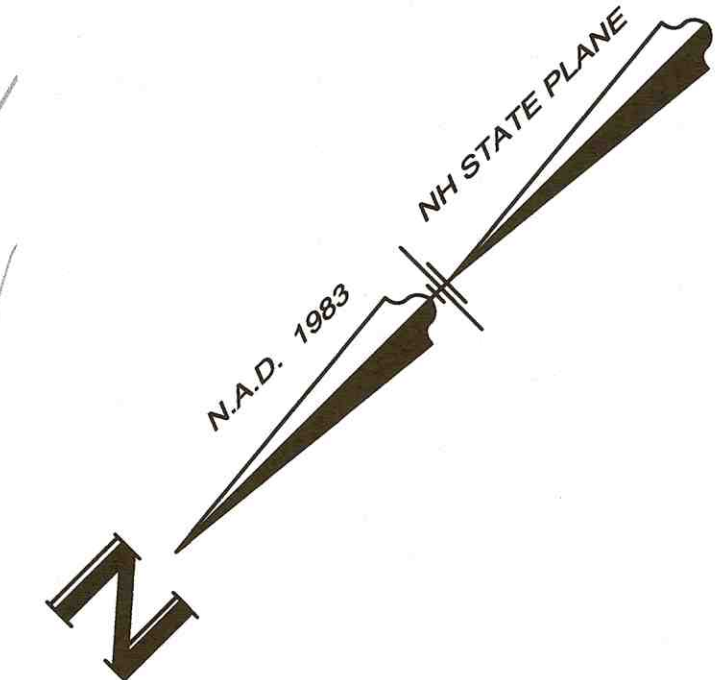
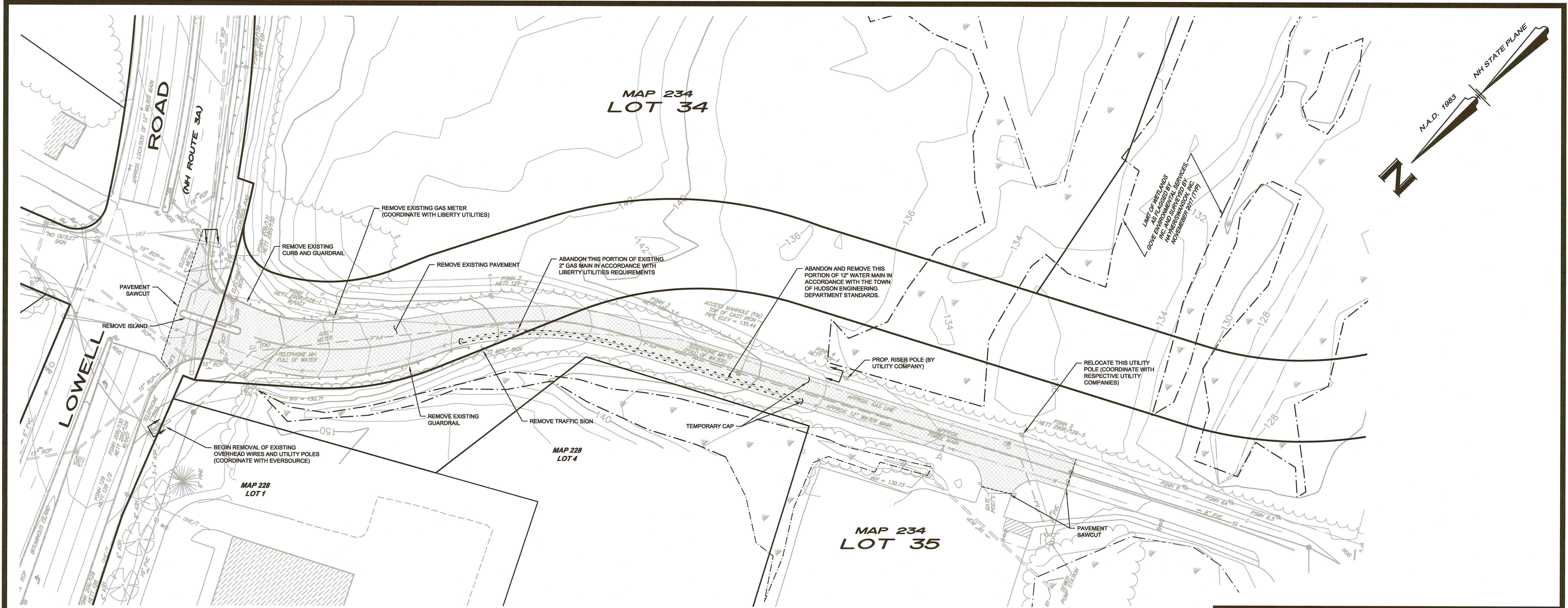
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UTILITY NOTE
 THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND PLOTTED FROM EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.

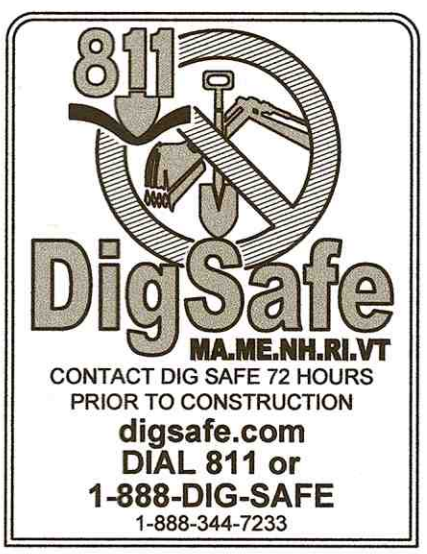
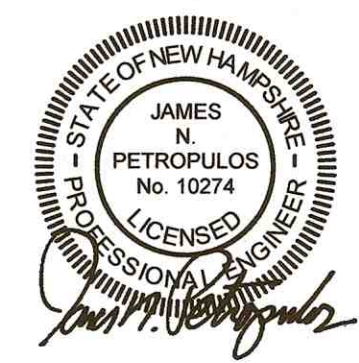
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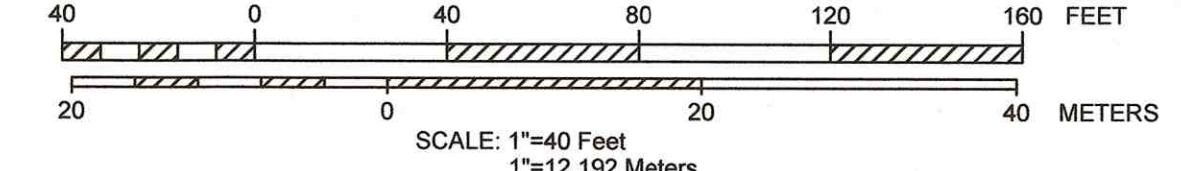
SITE DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR SITE DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON SITE LOCATIONS OF EXISTING UTILITIES.
5. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. THE CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
6. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. THE CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ROAD RIGHT OF WAY DURING CONSTRUCTION.
7. PRIOR TO SITE DEMOLITION OCCURRING, ALL APPROPRIATE EROSION CONTROL DEVICES ARE TO BE INSTALLED.
8. FOR ANY WORK WITHIN A PUBLIC STREET THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF HUDSON ENGINEERING DEPARTMENT.

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SITE DEMOLITION PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
 PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100

RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8993
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

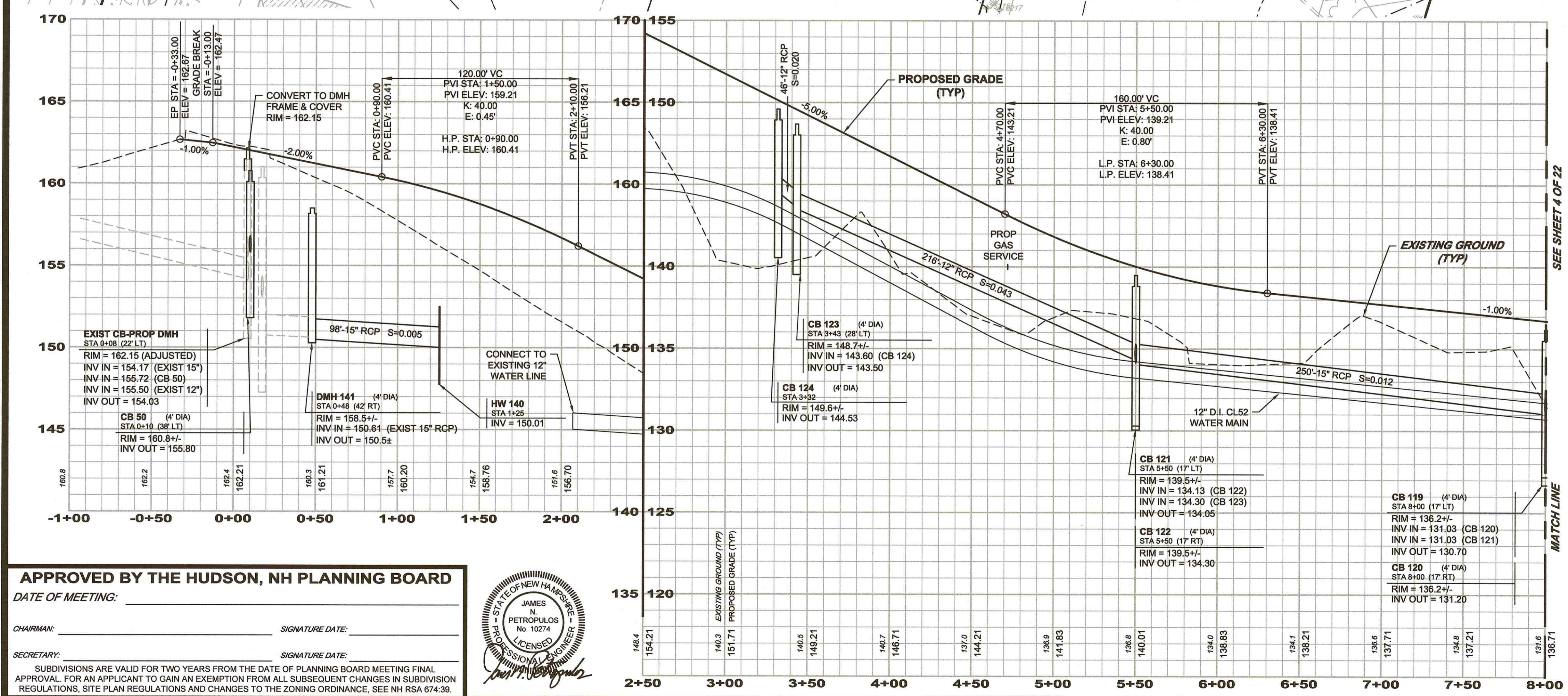
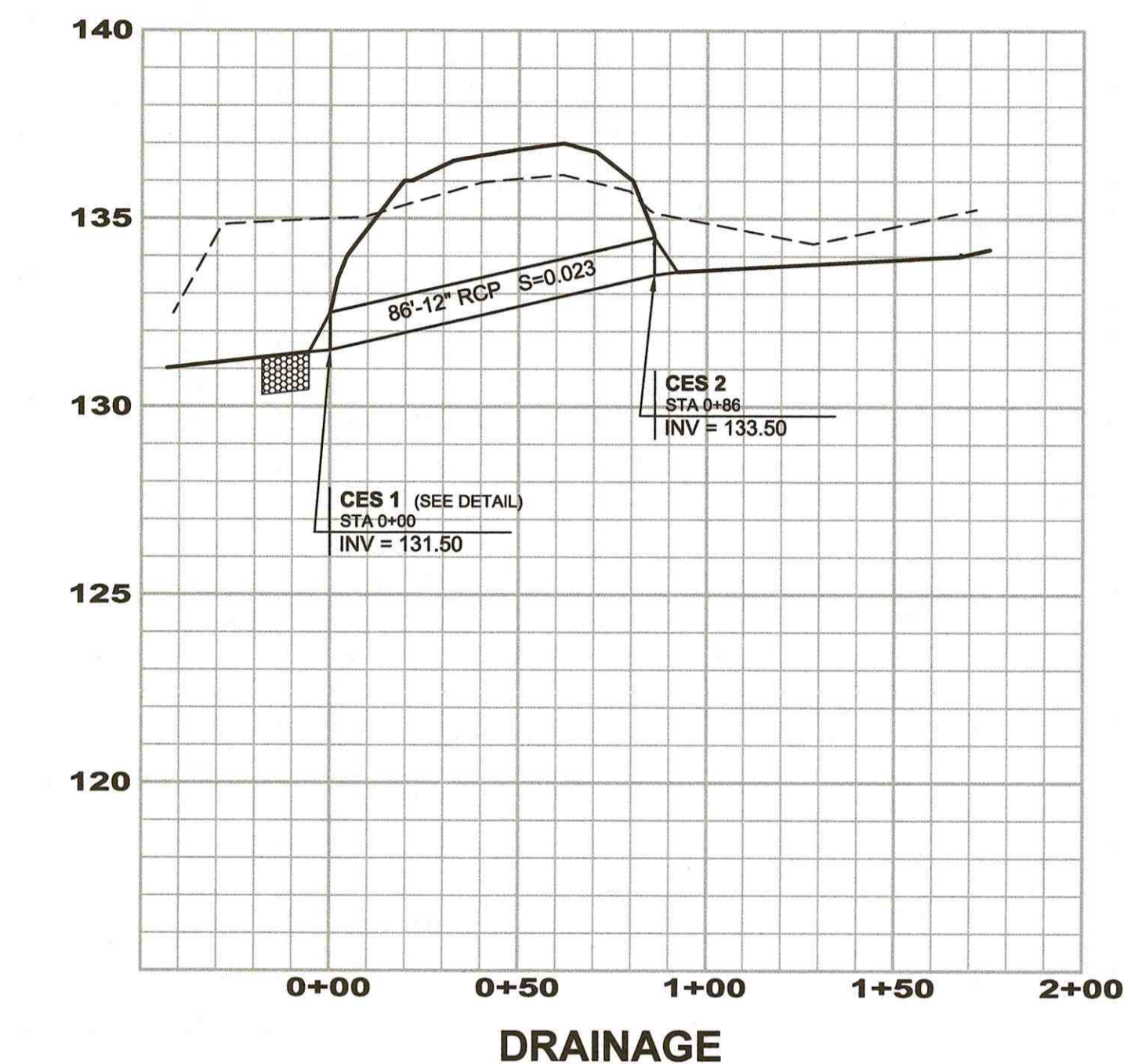
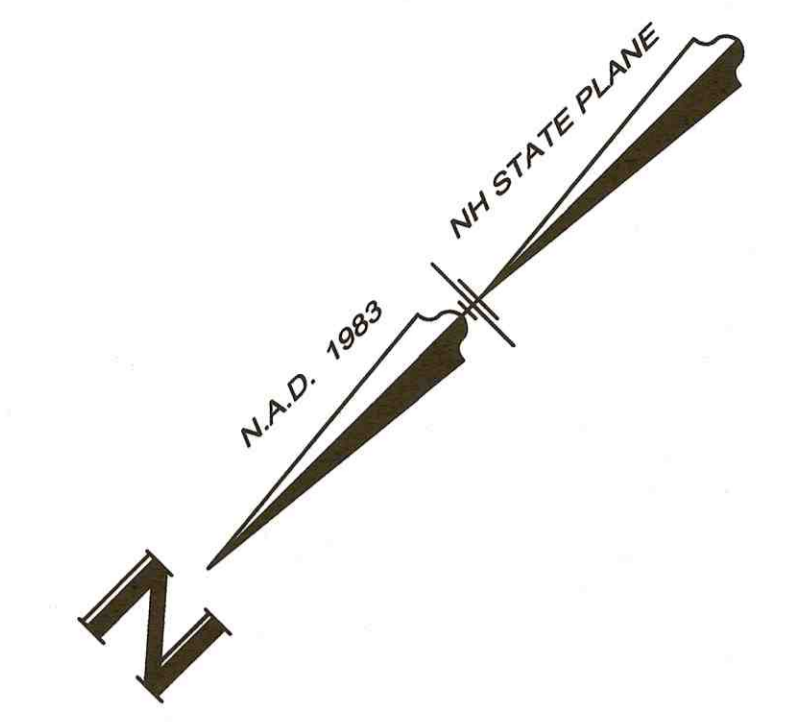
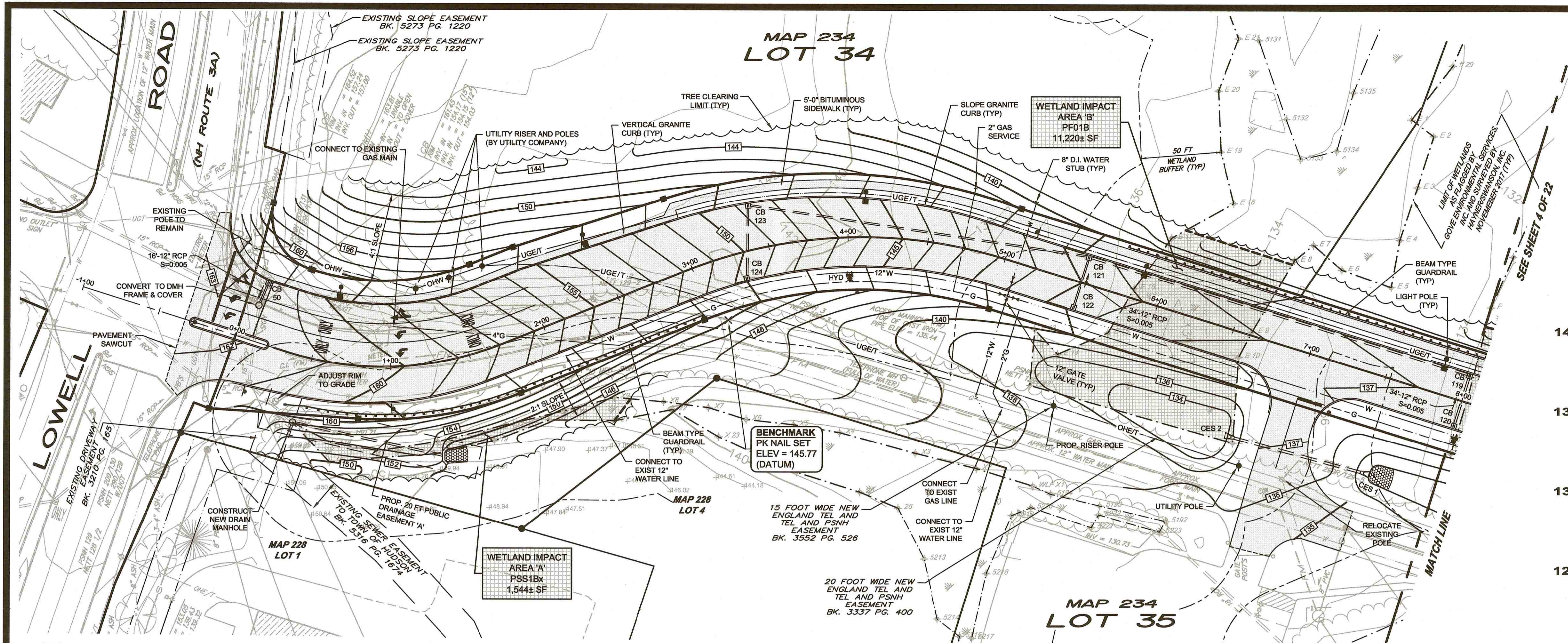


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 (603) 883-2057
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PLAN & PROFILE
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SCALE: HORIZ. 1" = 40 Feet
 VERT. 1" = 4 Feet

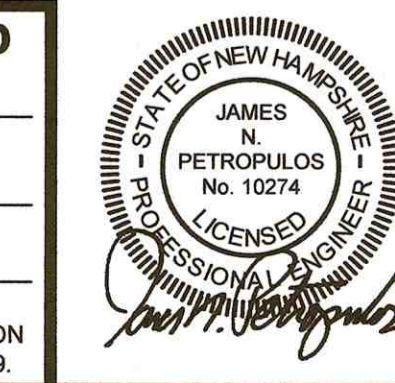
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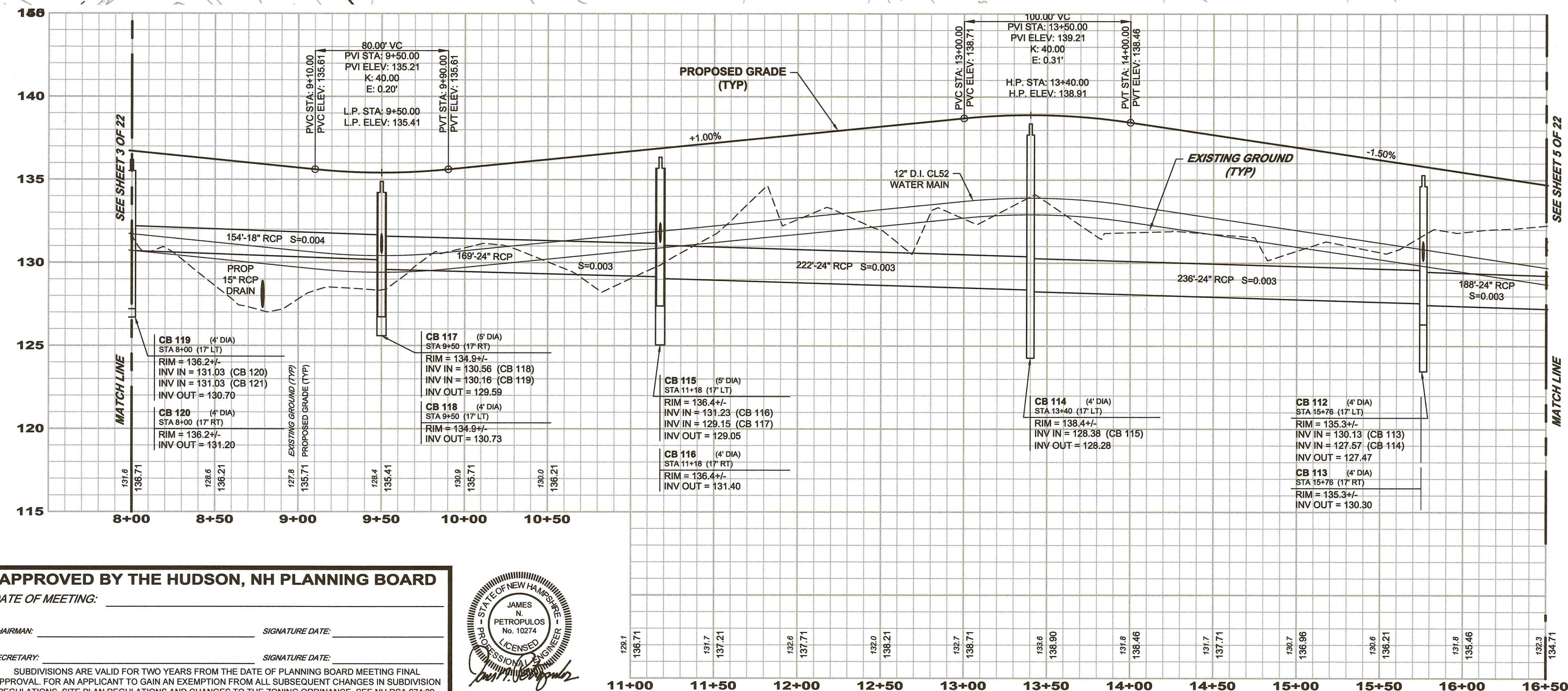
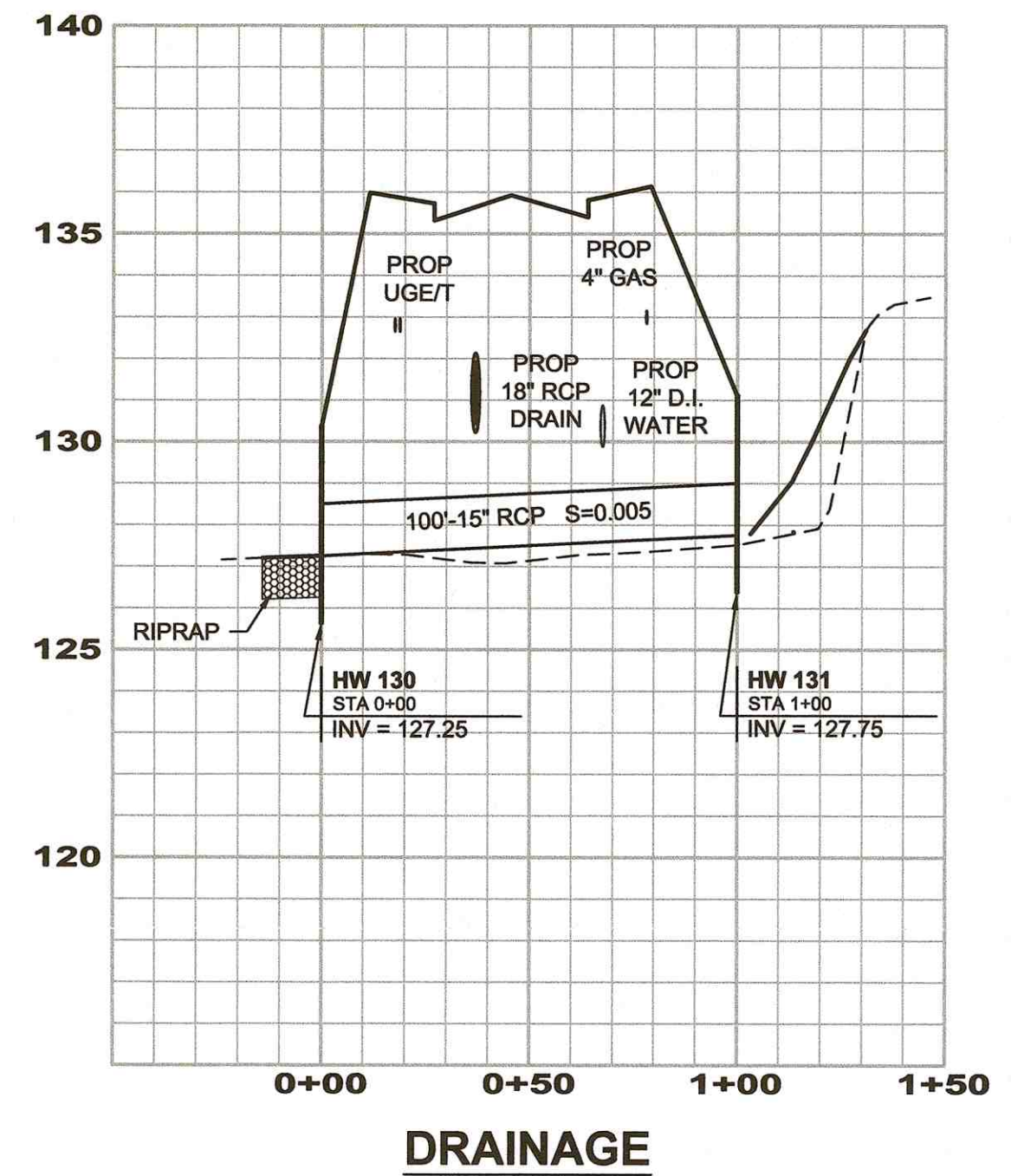
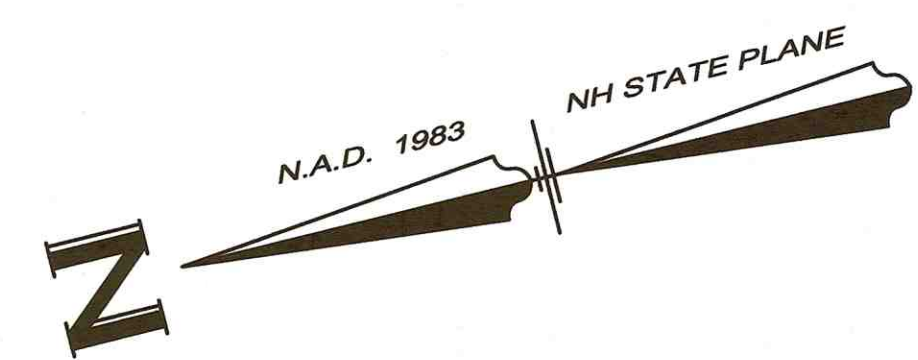
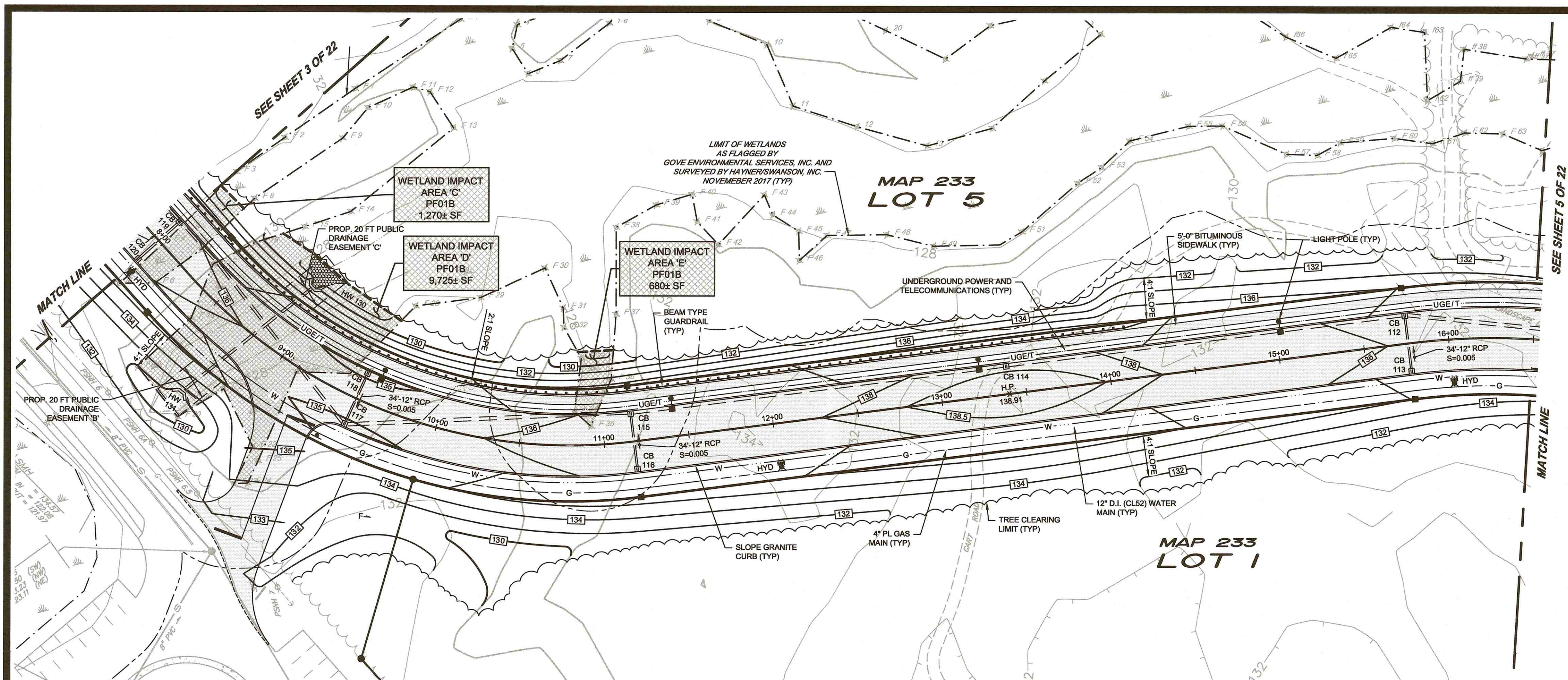
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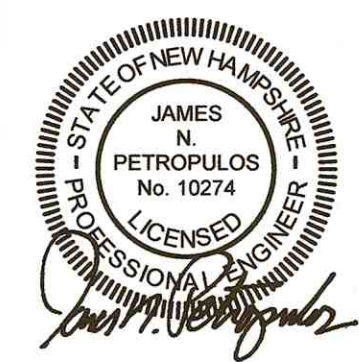
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SMALLER SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE,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



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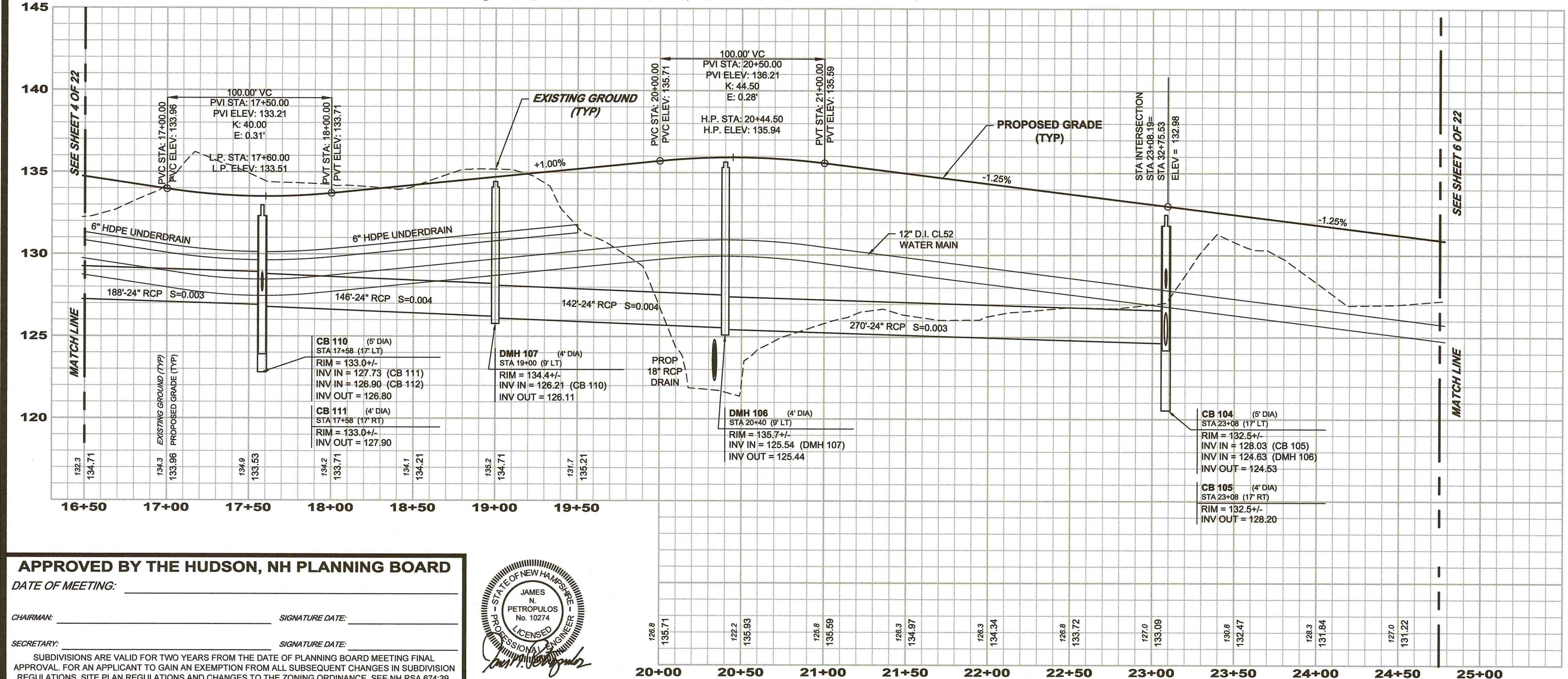
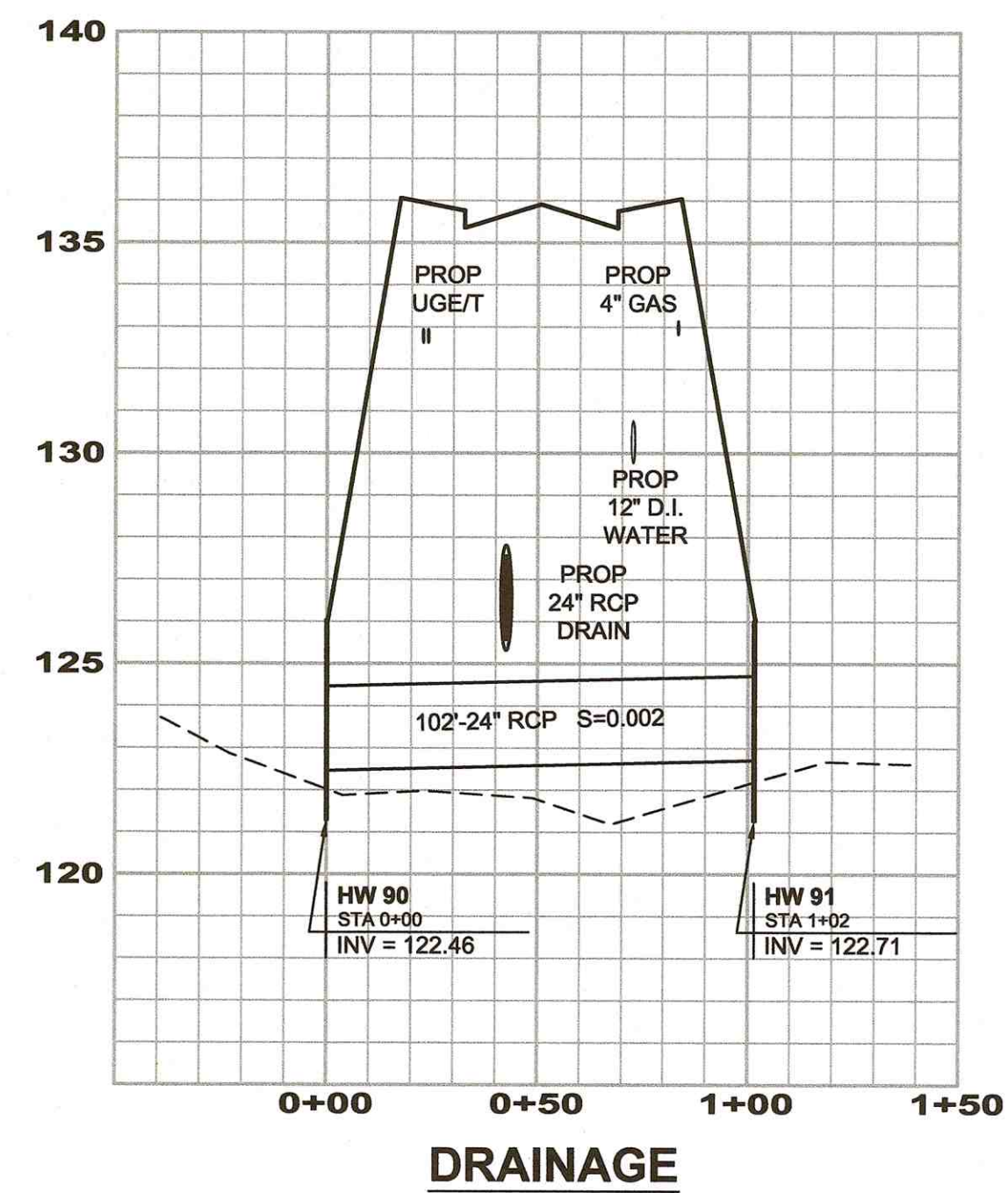
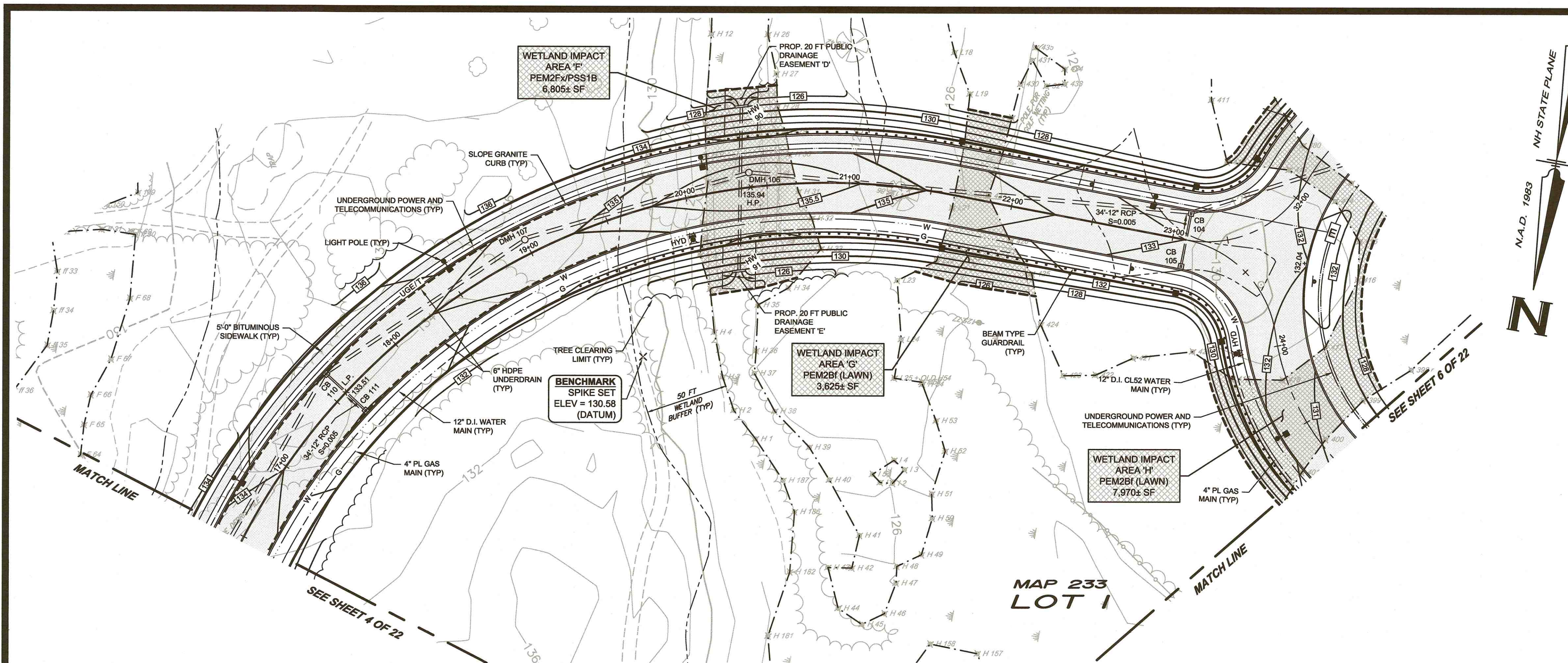
PLAN & PROFILE
GREEN MEADOW DRIVE
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
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 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
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 RECORD OWNERS:
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SCALE: HORIZ. 1" = 40 Feet
 VERT. 1" = 4 Feet

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NOTES

- STRUCTURE DIAMETERS AS SHOWN ON DRAINAGE PROFILES ARE CONSIDERED TO BE MINIMUM INSIDE DIMENSIONS. ALL STRUCTURES SHALL BE A MINIMUM INSIDE DIAMETER OF 48" UNLESS OTHERWISE INDICATED. LARGER STRUCTURES MAY BE NECESSARY DUE TO ALIGNMENT AND/OR PIPE SIZES. STRUCTURE MANUFACTURER SHALL DETERMINE FINAL SIZE.
- PIPE LENGTHS ARE MEASURED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.

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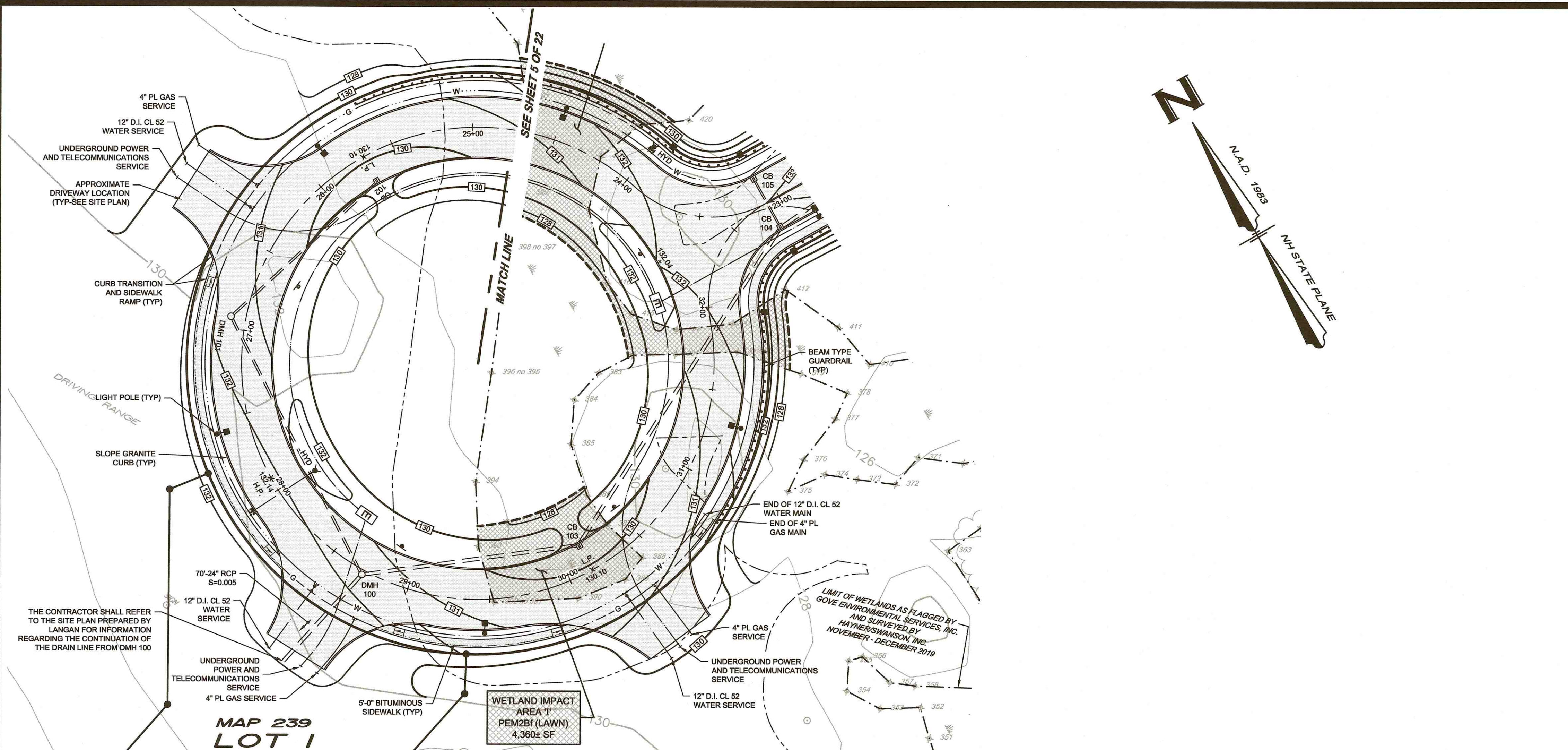
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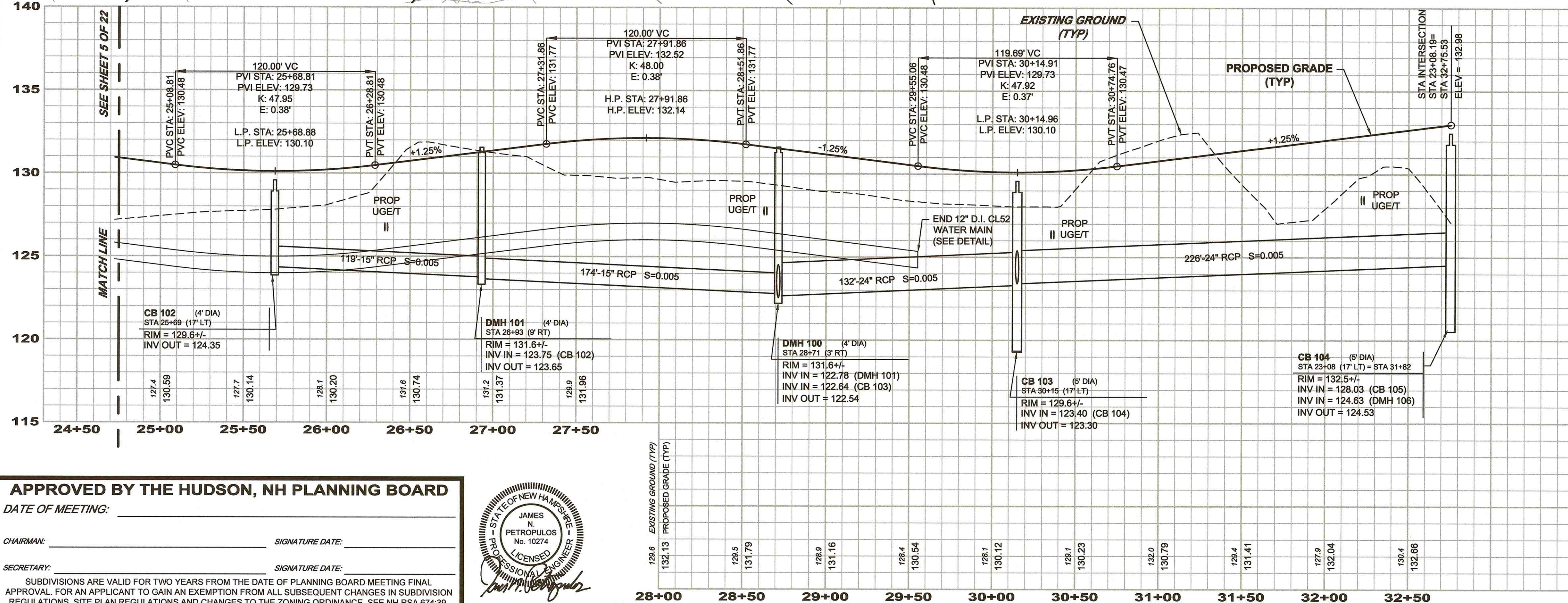
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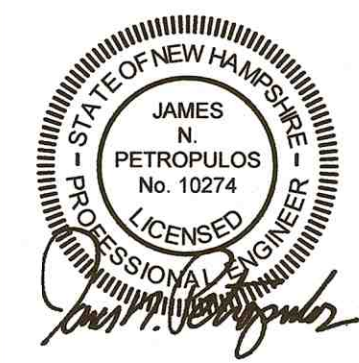


MAP 239
LOT 1



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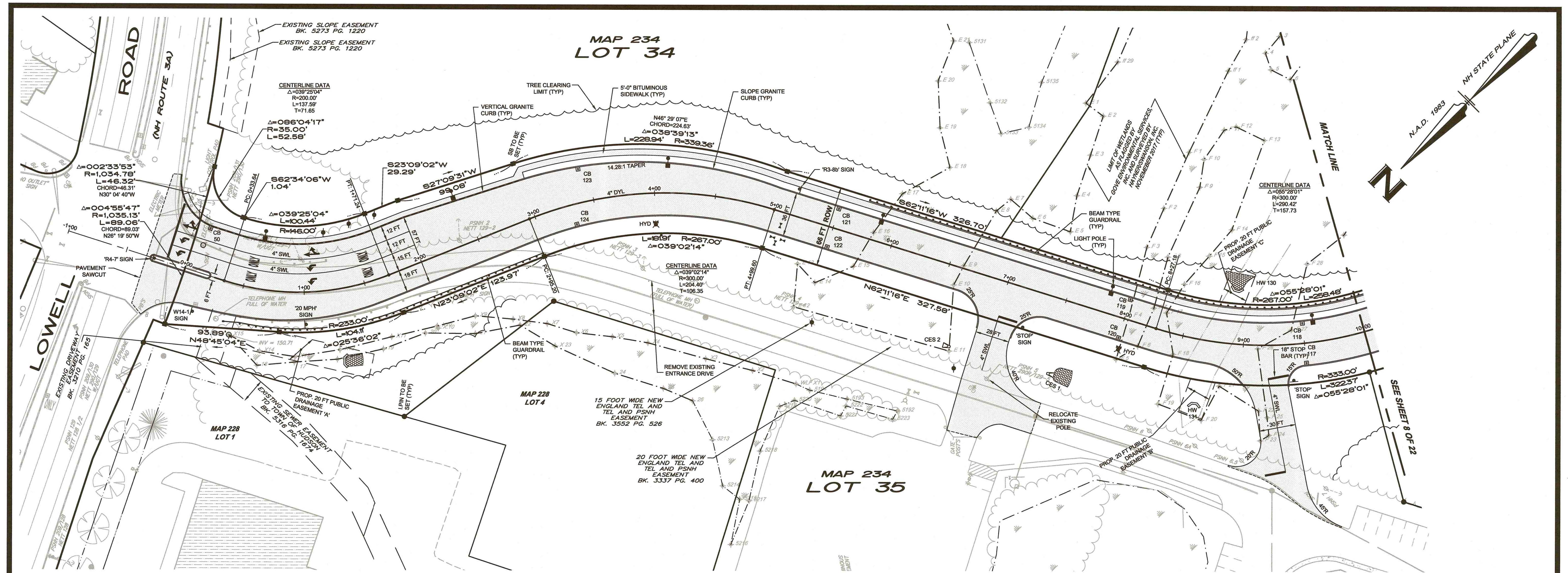
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SCALE: HORIZ. 1" = 40 Feet
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LEGEND

- 4" DYL FOUR-INCH DOUBLE YELLOW LINE
- 4" SWL FOUR-INCH SINGLE WHITE LINE
- 18" STOP BAR
- SIGN
- VERTICAL GRANITE CURBING
- SLOPE GRANITE CURBING

ROAD LAYOUT NOTES:

1. PRIOR TO COMMENCEMENT OF MAJOR CONSTRUCTION ACTIVITIES, THE ENGINEER SHALL PROVIDE THE CONTRACTOR WITH LAYOUT PLANS AND COORDINATE VALUES FOR STRATEGIC ELEMENTS OF THE SITE, INCLUDING THE FOLLOWING:
 - (A) BASE LINE CONTROLS FOR THE BUILDING AREA
 - (B) PARKING LOT CORNERS AND MAJOR RADIUS POINTS
 - (C) CATCH BASINS AND MANHOLE CENTERLINE POINTS
2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT BUILDING DIMENSIONS AND DETAILS.
3. ALL DIMENSIONS ARE FROM FACE OF CURB OR OUTSIDE FACE OF BUILDING UNLESS NOTED OTHERWISE.
4. STAIR AND DOORWAY LOCATIONS AS SHOWN ARE FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
5. ALL PAVEMENT MARKINGS SHALL BE 4-INCH WHITE PAINT UNLESS NOTED OTHERWISE. 4-INCH YELLOW PAINT SHALL BE USED FOR ROADWAY CENTERLINES.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

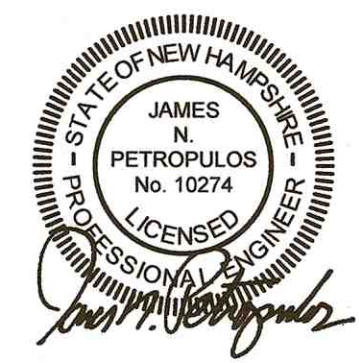
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**ROAD LAYOUT PLAN
GREEN MEADOW DRIVE
(MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
LOWELL AND STEELE ROADS
HUDSON, NEW HAMPSHIRE**

PREPARED FOR: LANGAN
888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100

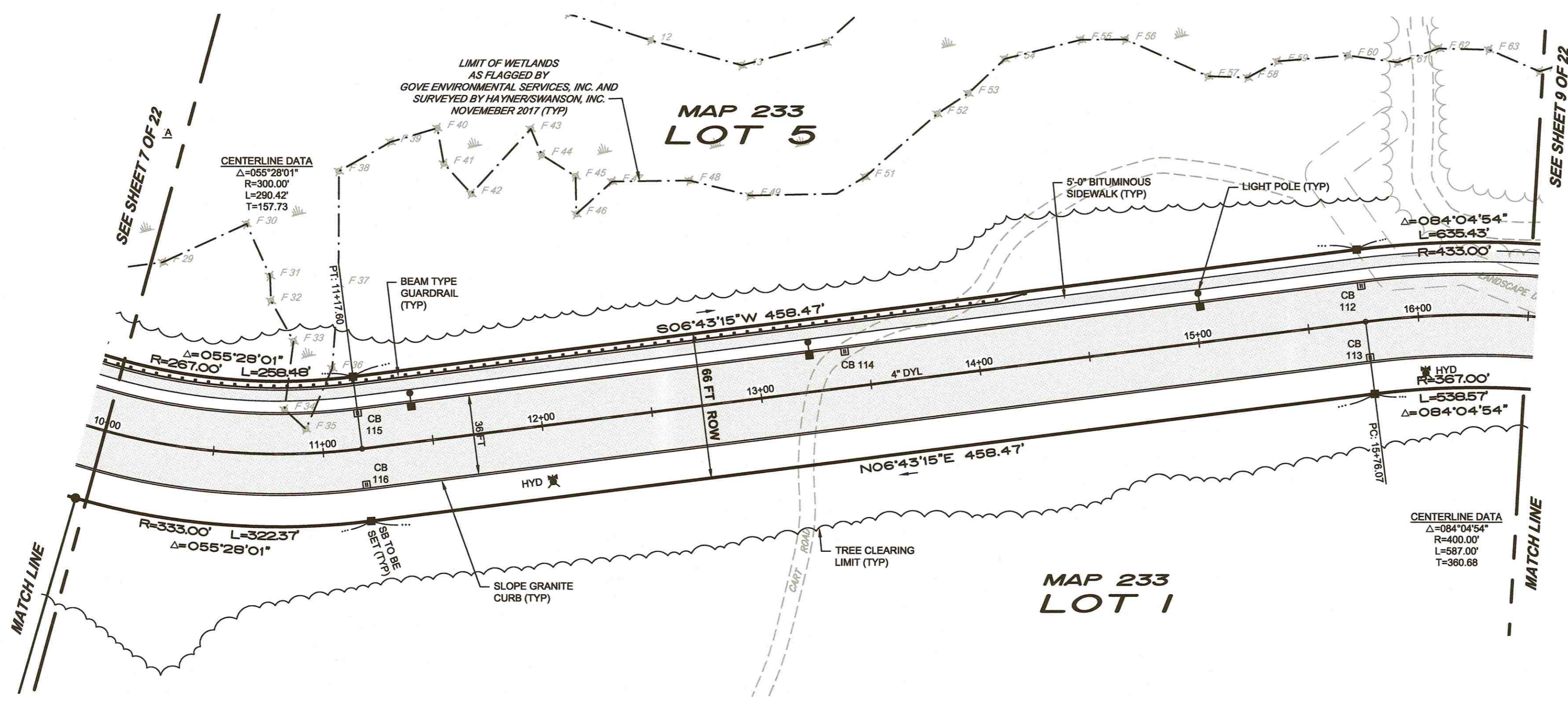
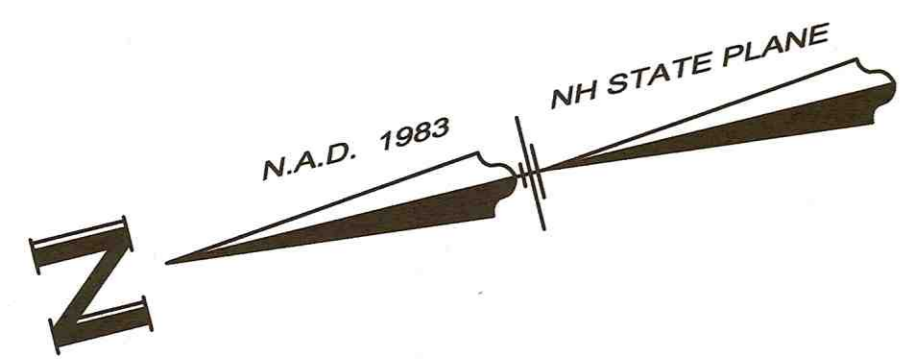
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SCALE: 1"=40 Feet
1"=12.192 Meters

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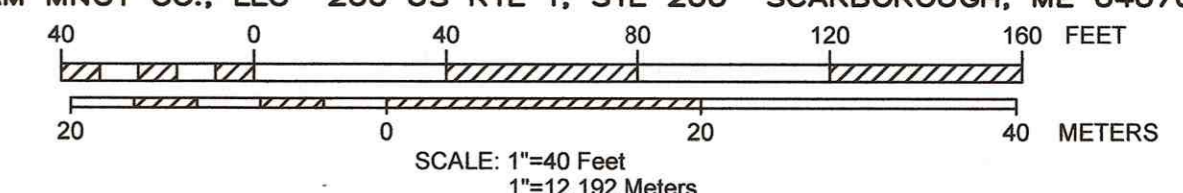
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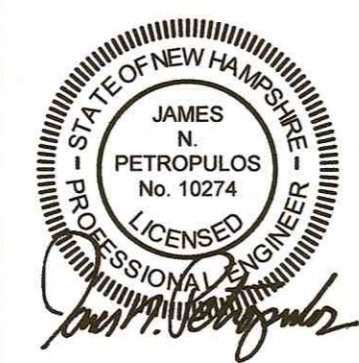
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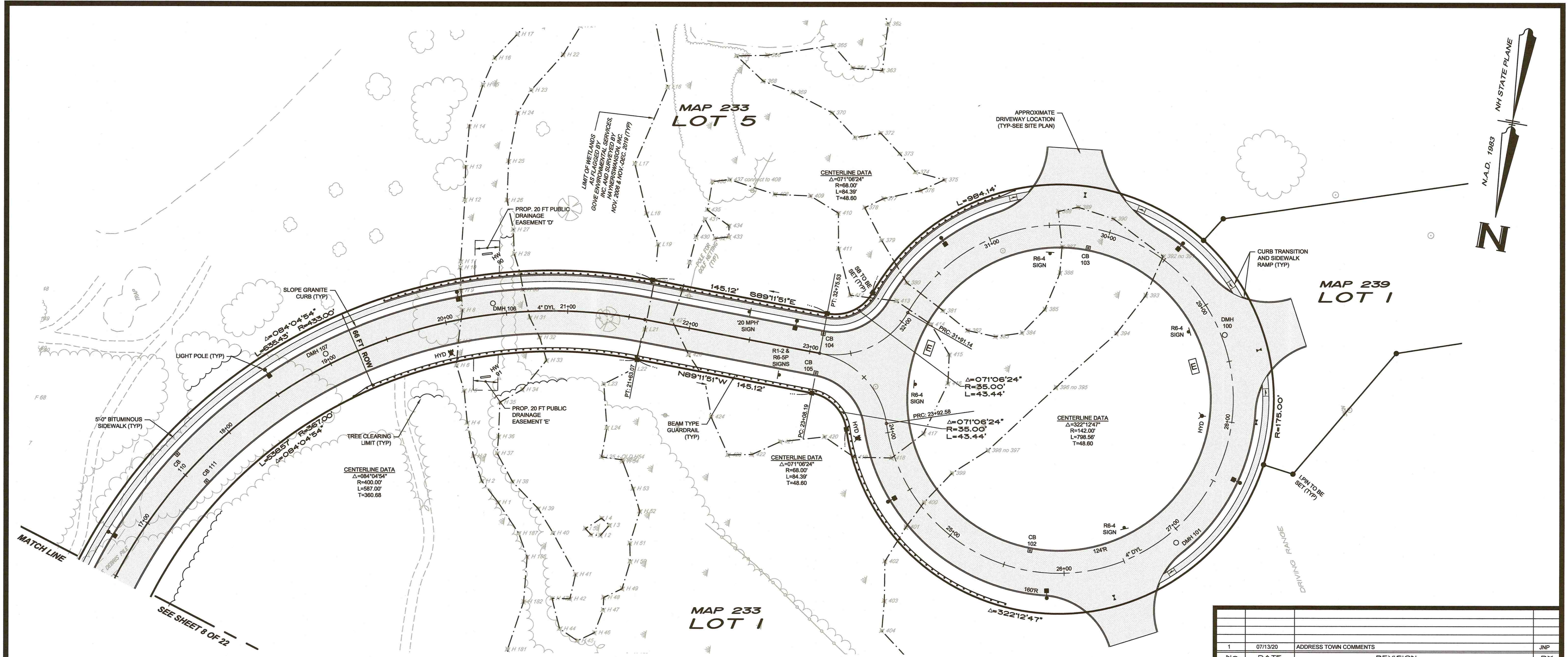
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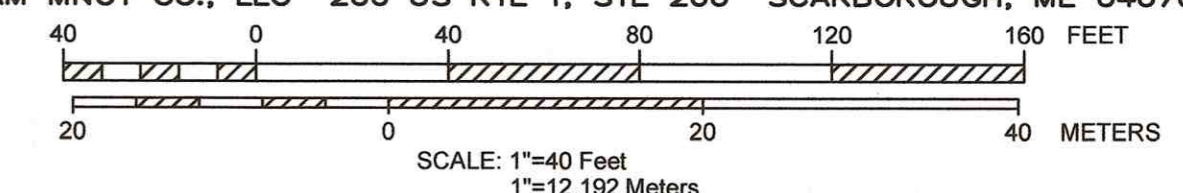
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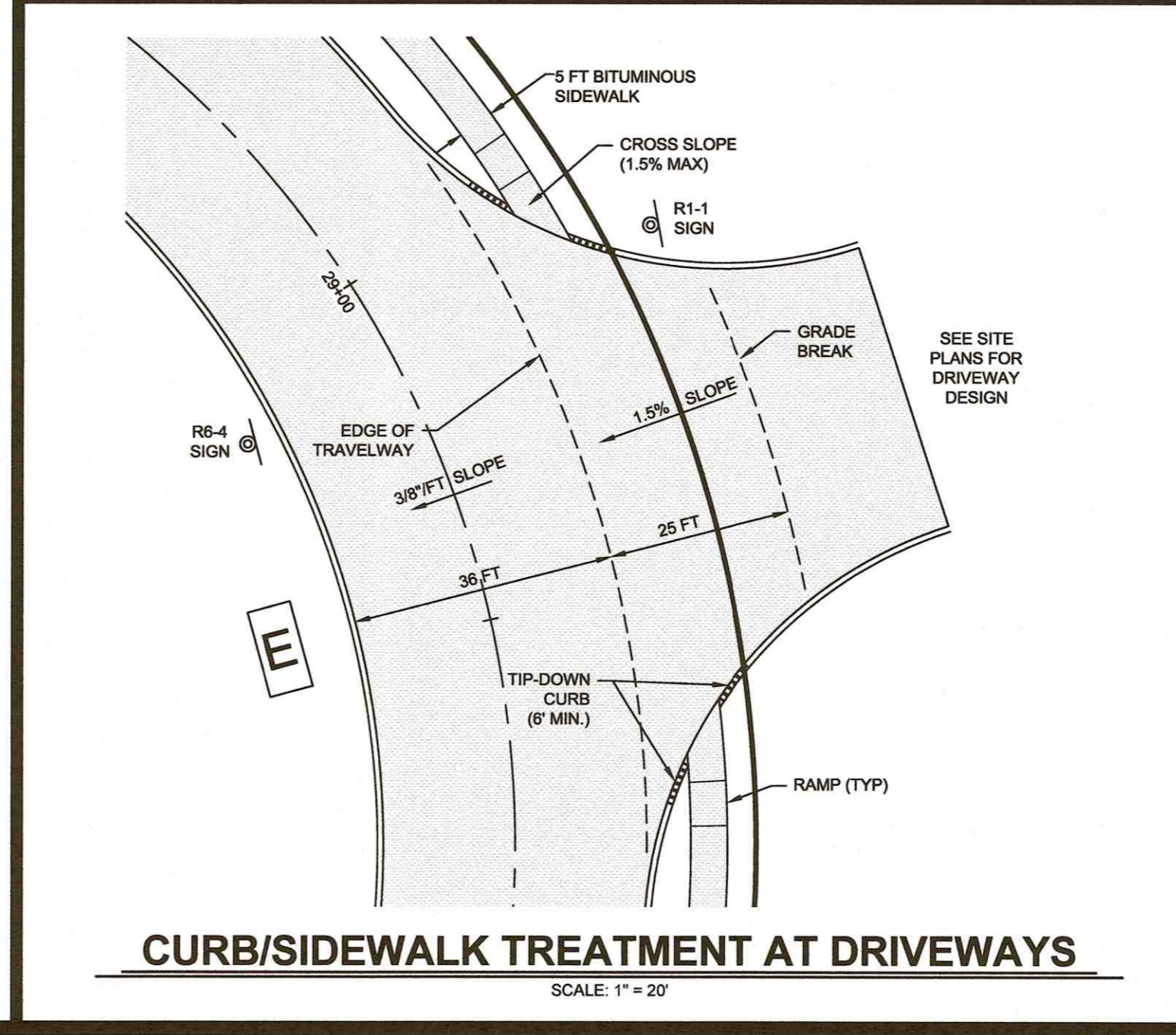


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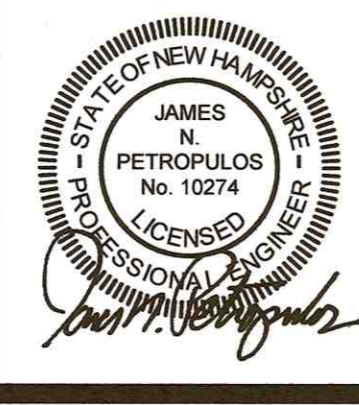
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 Civil Engineers/Land Surveyors

3 Congress Street
 Nashua, NH 03062
 (603) 883-2057
 131 Middlesex Turnpike
 Burlington, MA 01803
 (882) 203-1501
 www.haynerswanson.com

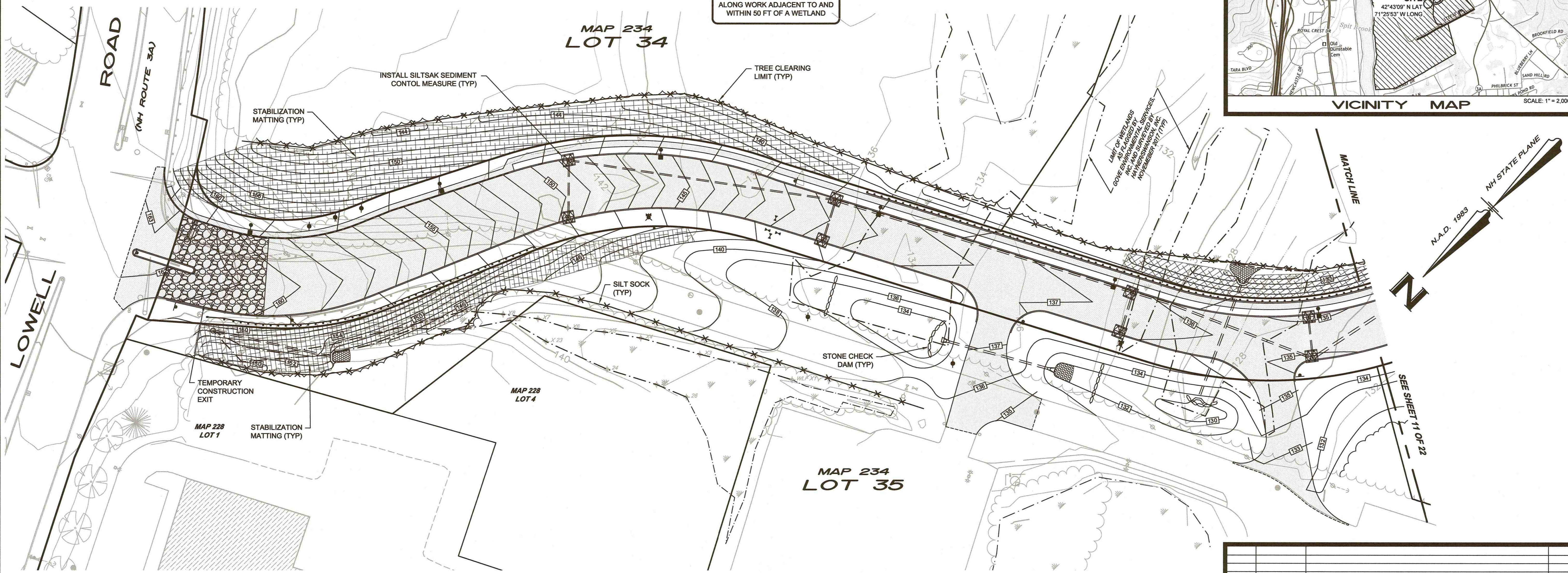
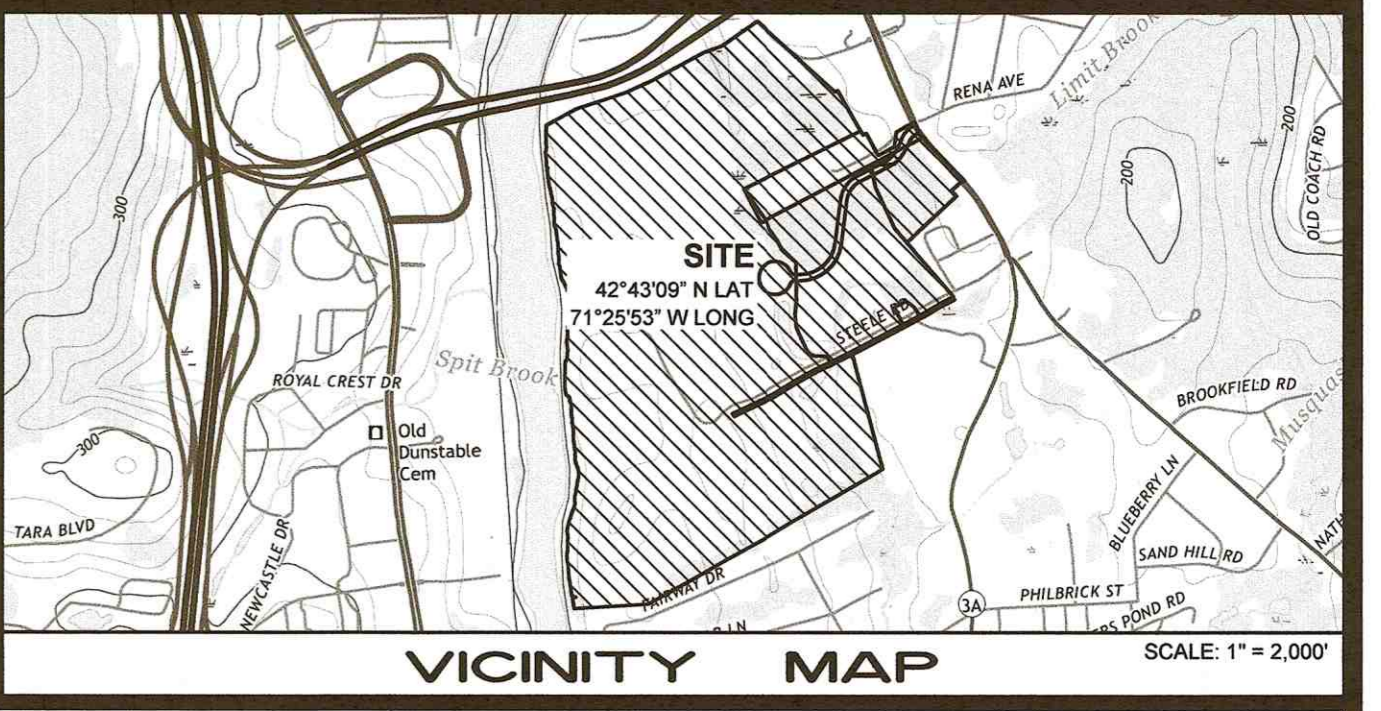
FIELD BOOK: ---	DRAWING NAME: 3867L-F041	3867L	9 OF 22
DRAWING LOC: J:\3000\3867\DWG\3867L SITE		File Number	Sheet



APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____
 CHAIRMAN: _____ SIGNATURE DATE: _____
 SECRETARY: _____ 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.



NOTE
 A DOUBLE ROW OF PERIMETER SILT SOCK SHALL BE INSTALLED ALONG WORK ADJACENT TO AND WITHIN 50 FT OF A WETLAND



EROSION CONTROL LEGEND

- SILT SOCK
- SILT-SACK INLET PROTECTION DEVICES
- GRAVEL CONSTRUCTION EXIT
- STABILIZATION MATTING
- STONE CHECK DAM
- RUNOFF DIRECTION
- DIVERSION DIRECTION

ROADWAY CONSTRUCTION SEQUENCE:

1. CLEAR & GRUB SITE ACCORDING TO PLAN. CUT AND DISPOSE OF ANY DEBRIS PRODUCED DURING THE CLEARING AND GRUBBING ACTIVITY. ALL STUMPS SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER.
2. INSTALL EROSION CONTROL SILT SOCK PROTECTION AND TEMPORARY GRAVEL CONSTRUCTION EXITS. PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. SEDIMENT PONDS AND DIVERSION SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL PERMANENT STORMWATER BMPs ARE STABILIZED.
3. PERFORM GRADING OF ROADWAY. ALL SLOPE AREAS SHALL BE LOAMED AND SEEDED AND MULCHED IMMEDIATELY AFTER BEING CONSTRUCTED.
5. INSTALL UTILITIES IN ACCORDANCE WITH THE PLANS.
6. INSTALL INLET PROTECTION AROUND ALL STORM DRAIN STRUCTURES. INSTALLATION OF UNDERGROUND UTILITIES AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT IN ACCORDANCE WITH THE 'SILTSACK DETAIL'. THE CONTROL SHALL REMAIN UNTIL THE SITE IS SUFFICIENTLY STABILIZED.
7. PREPARE ROADWAY FOR PAVING.
8. AS THE ROADWAY IS COMPLETED, ALL DISTURBED AREA SHALL BE PERMANENTLY STABILIZED. NO PORTION OF THE PROJECT SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR A PERIOD OF TWO (2) MONTHS OR GREATER.
9. LOAM AND SEED ALL REMAINING DISTURBED AREAS. COMPLETED AREAS SHALL BE STABILIZED 72 HOURS AFTER COMPLETION.
10. FINAL PAVING OF ROADWAY AND SIDEWALKS.
11. INSPECTION OF ALL SEDIMENT AND EROSION CONTROL MEASURES.
12. PERMANENT SEEDING OF DISTURBED AREAS.
13. REMOVE ANY TEMPORARY EROSION CONTROL MEASURES NOT NEEDED.

GENERAL EROSION CONTROL NOTES:

1. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) AND BECOME FAMILIAR WITH THEIR CONTENTS.
2. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY SITE CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
4. EARTH MATERIAL STOCKPILE AREAS SHALL BE SURROUNDED BY SILT SOCK AND RE-SEEDED IF THEY ARE LEFT UNTOUCHED FOR MORE THAN FOURTEEN (14) DAYS.
5. THE PROJECT IS EXPECTED TO GENERATE A SIZEABLE VOLUME OF WETLAND HUMUS DURING THE DREDGING/GRUBBING OF THE IMPACTED AREAS. THE CONTRACTOR SHALL STOCKPILE THIS HUMUS MATERIAL SEPARATELY FOR RE-USE ON FILL SLOPES ADJACENT TO WETLAND AREAS.
6. ALL MEASURES STATED ON THIS EROSION CONTROL PLAN, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETE PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT.
7. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
8. ALL SEEDED AREAS SHALL BE CHECK REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
9. THE TEMPORARY GRAVEL CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
10. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THAT LOWELL ROAD AND THE PAVED SURFACES OF MAP 234, LOT 35 ARE KEPT FREE OF DIRT AND DEBRIS FOR THE DURATION OF THE CONTRACT.

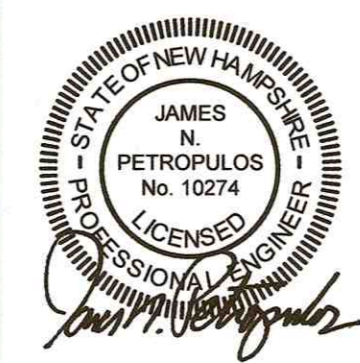
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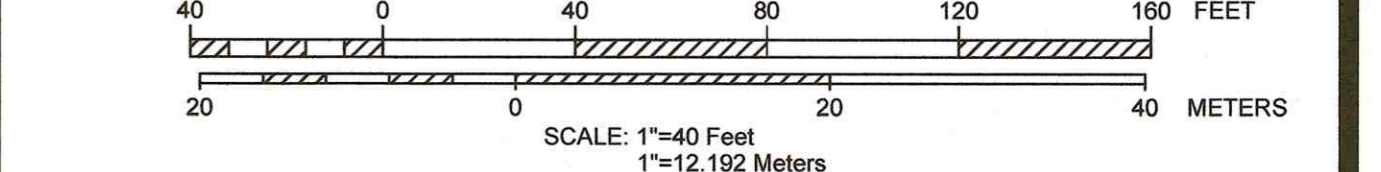
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EROSION CONTROL PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
 PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100

RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

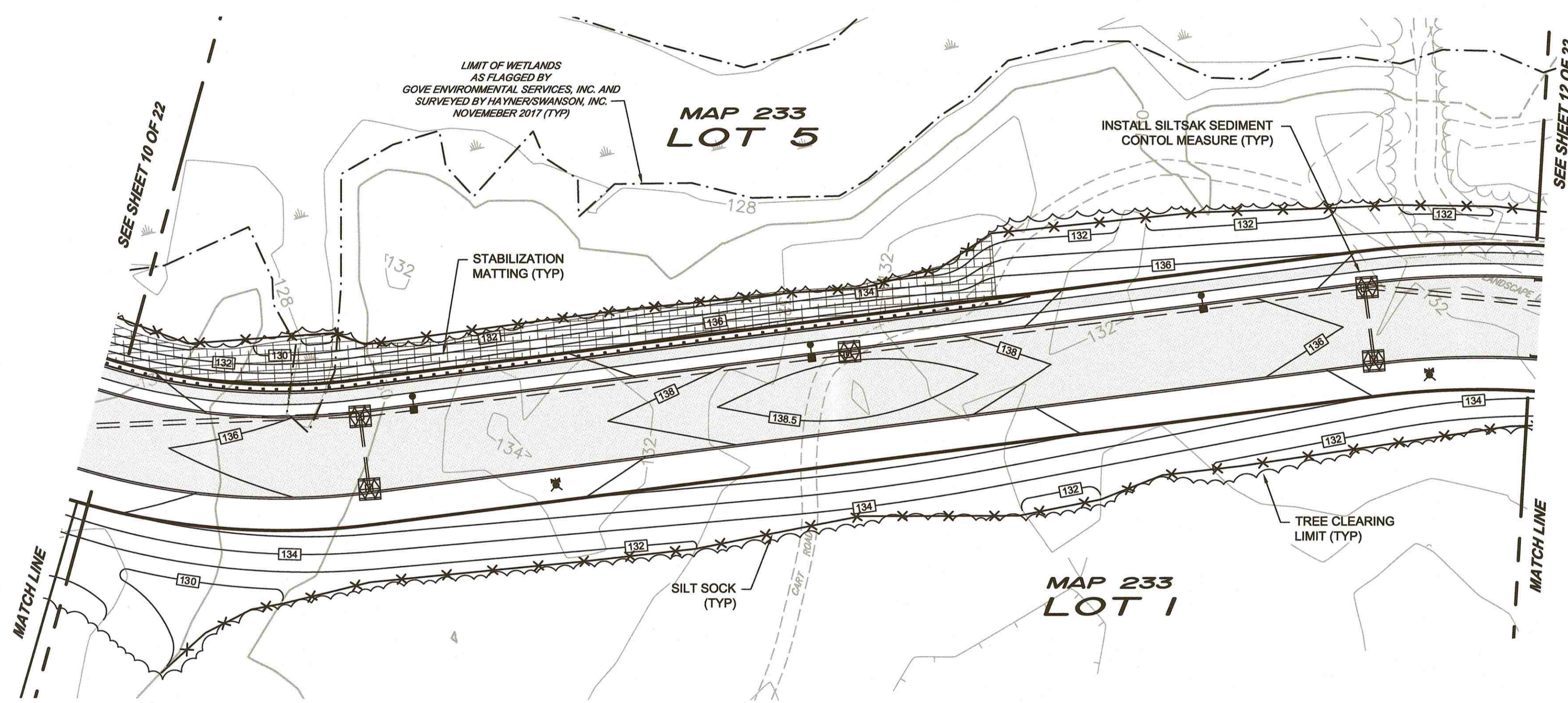
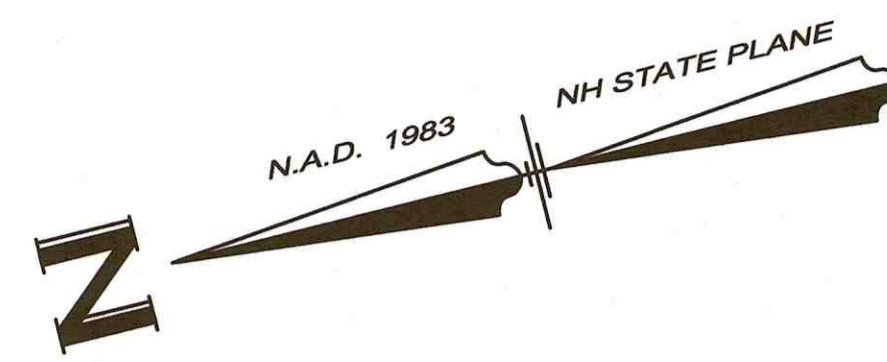


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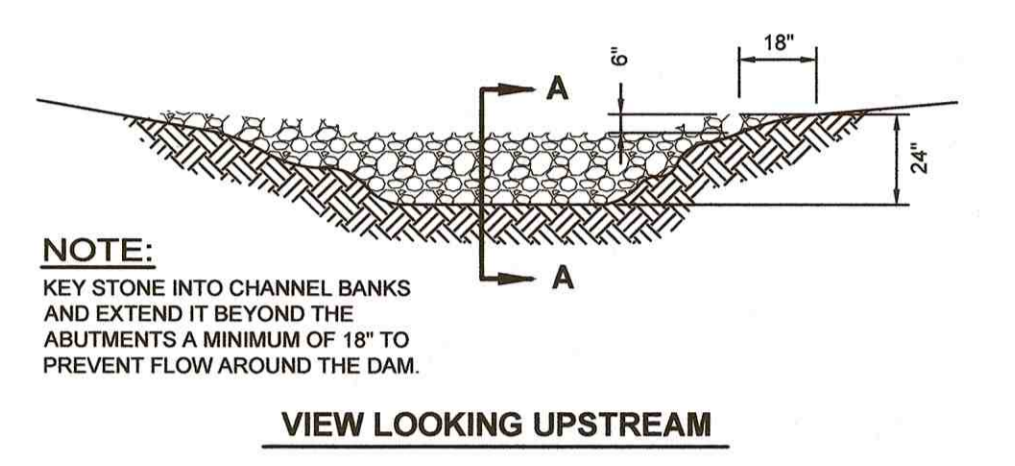
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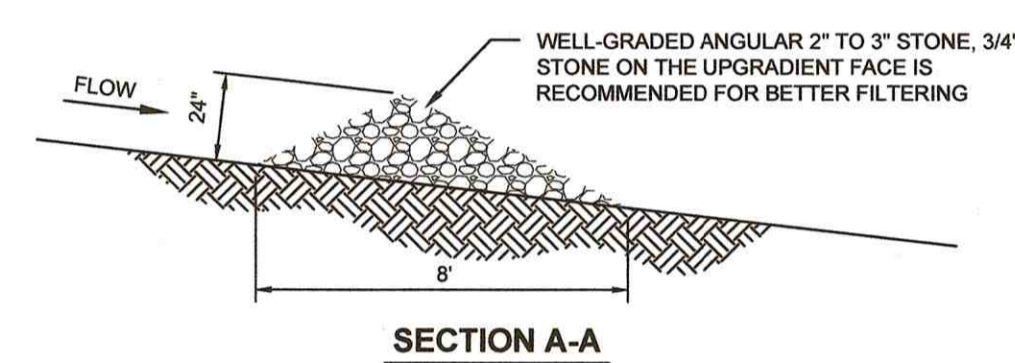
FIELD BOOK: ---	DRAWING NAME: 3867L-ER41	3867L	10 OF 22
DRAWING LOC: J:\3000\3867\DWG\3867L SITE		File Number	Sheet



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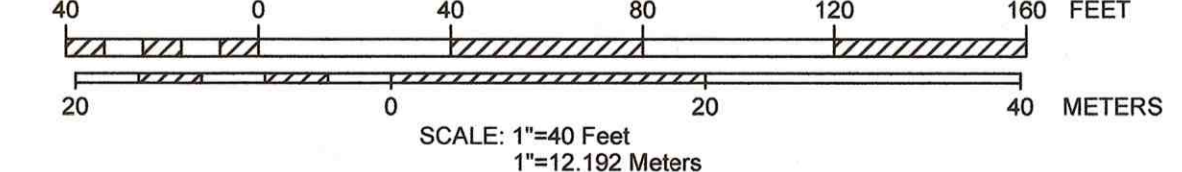
NOTE:
 KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND THE DAM.



TEMPORARY STONE CHECK DAM TYPICAL SECTION
 NOT TO SCALE

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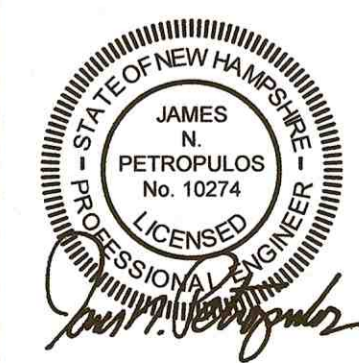
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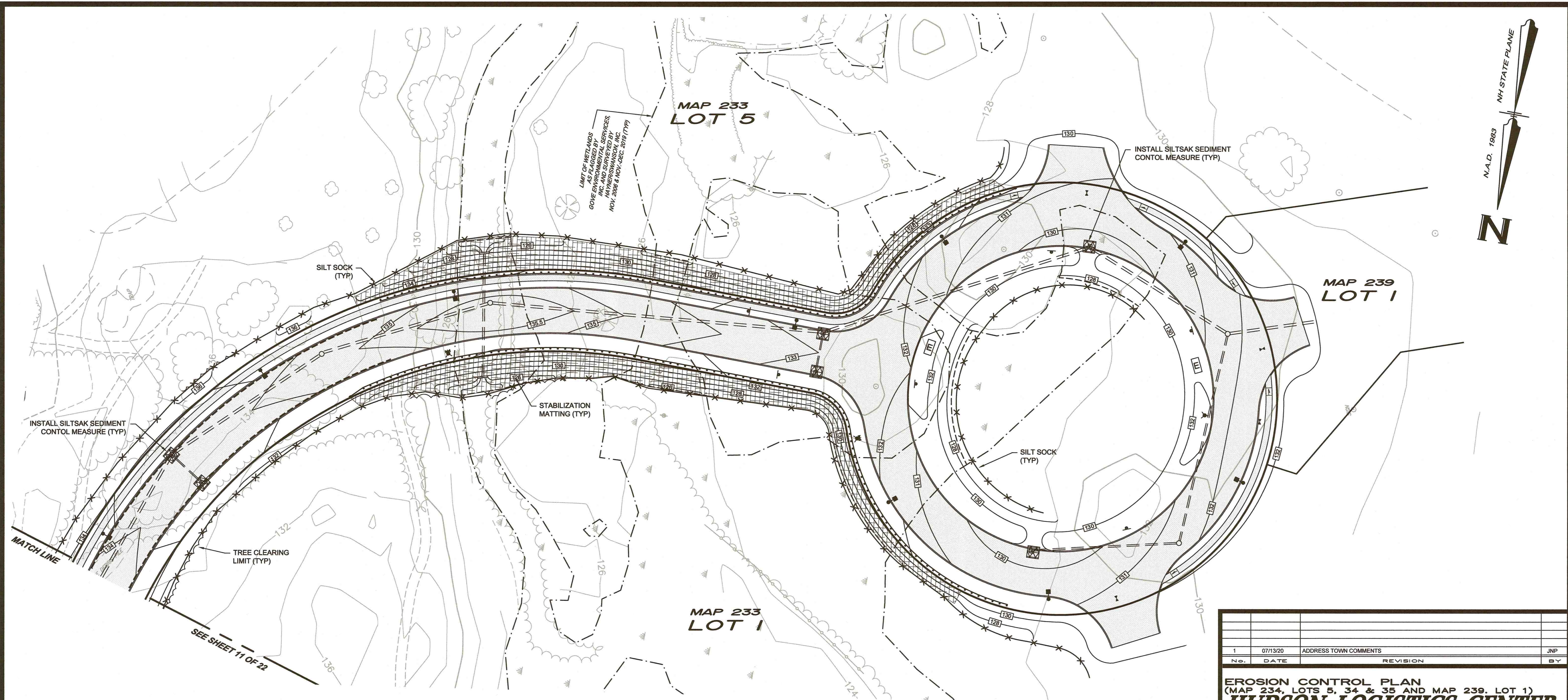
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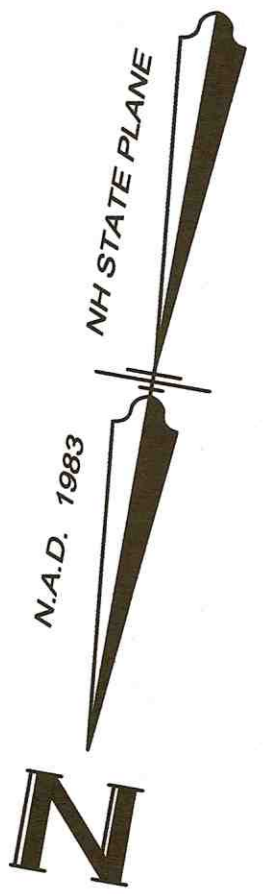
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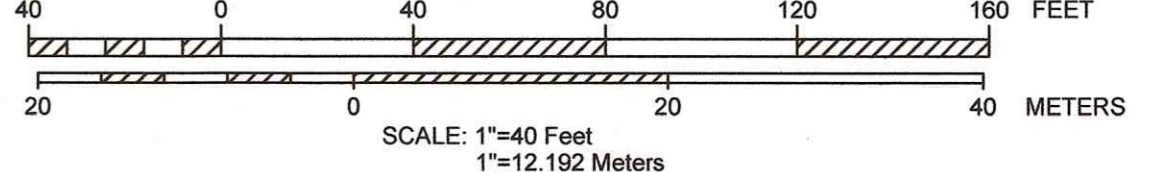
LIMIT OF WETLANDS
 AS DETERMINED BY
 GOLE ENVIRONMENTAL SERVICES,
 INC. AND SURVEYED BY
 HAYNER/SWANSON, INC.
 NOV. 2016 & NOV.-DEC. 2019 (TYP)



NOTE
 A DOUBLE ROW OF PERIMETER
 SILT SOCK SHALL BE INSTALLED
 ALONG WORK ADJACENT TO AND
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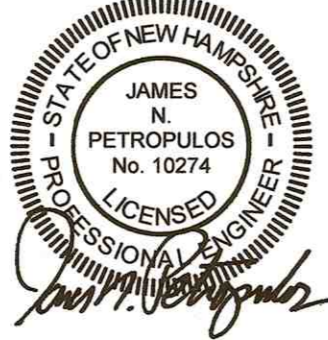
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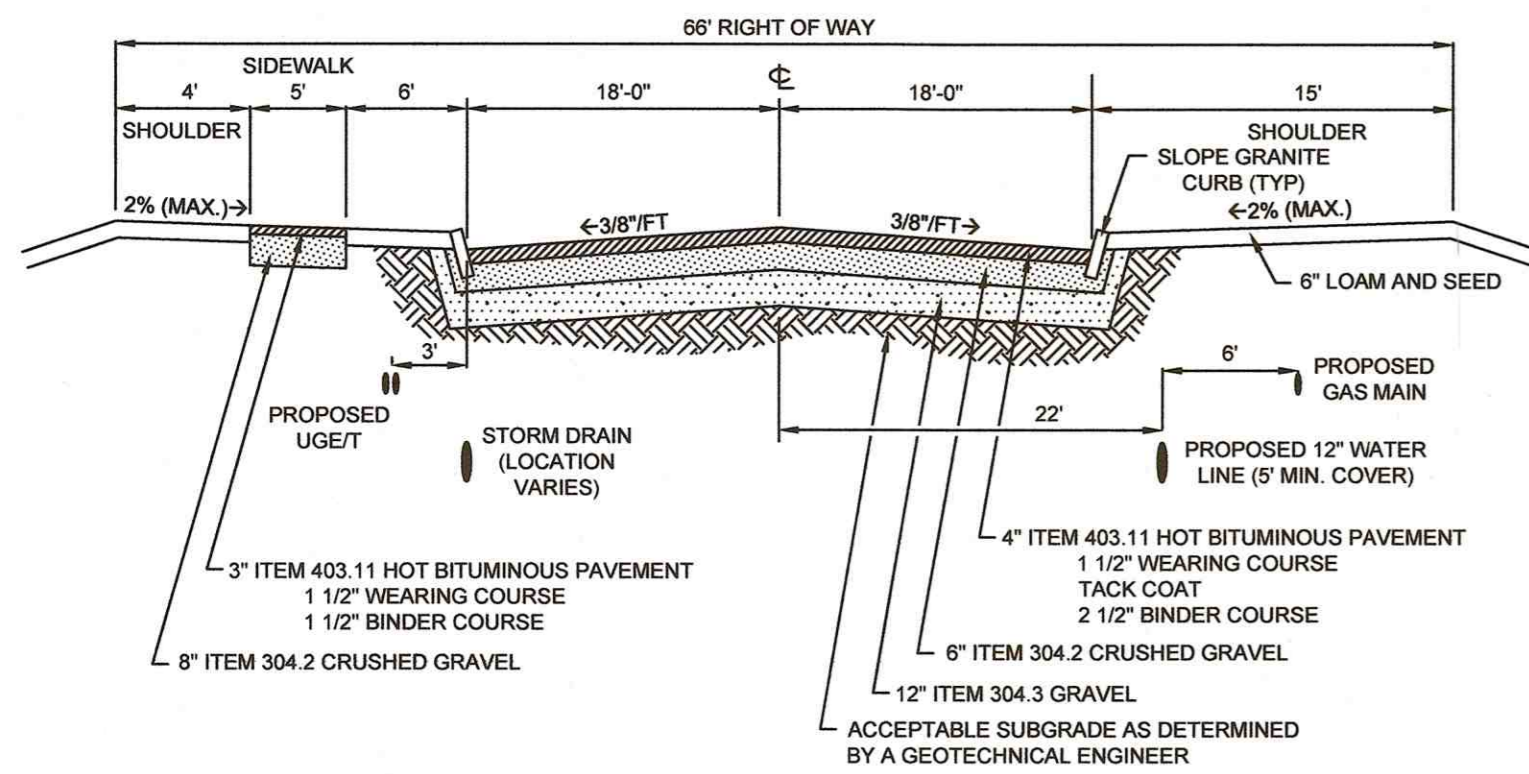
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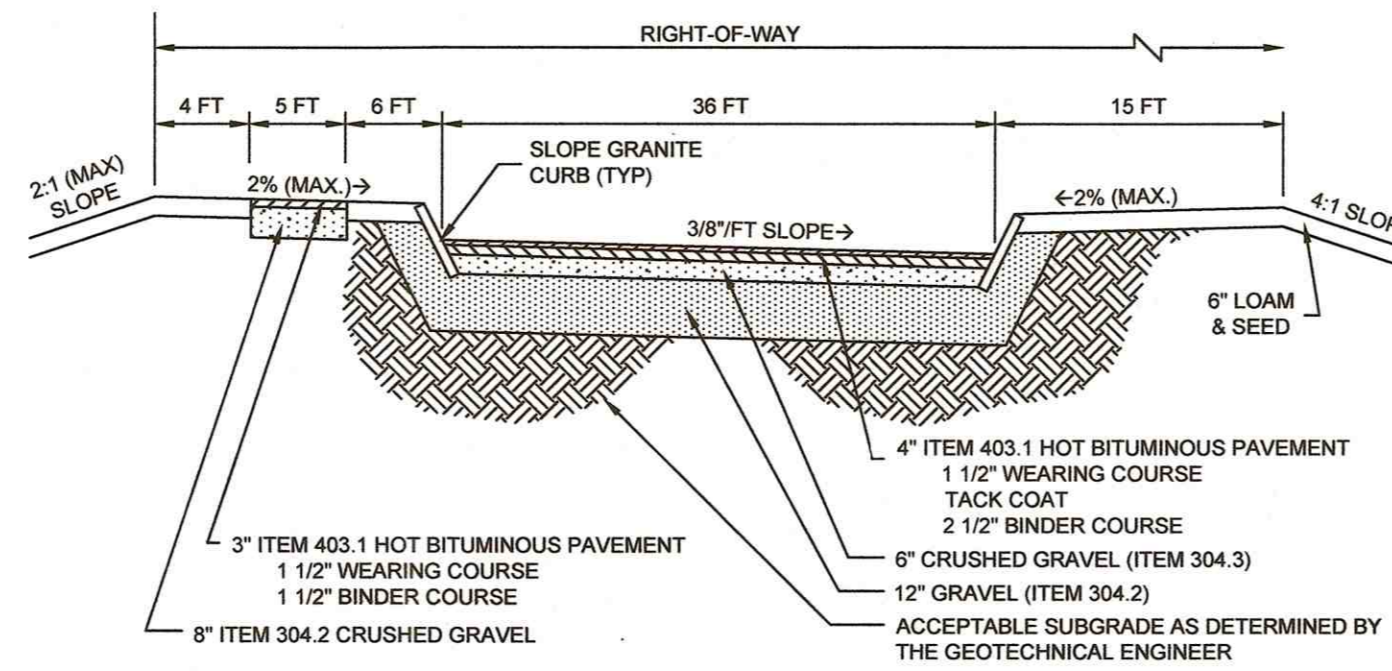
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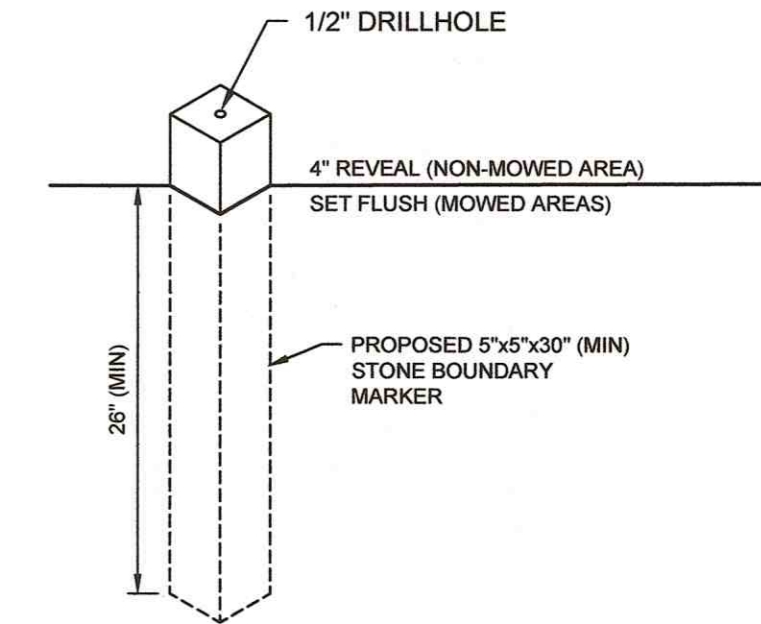




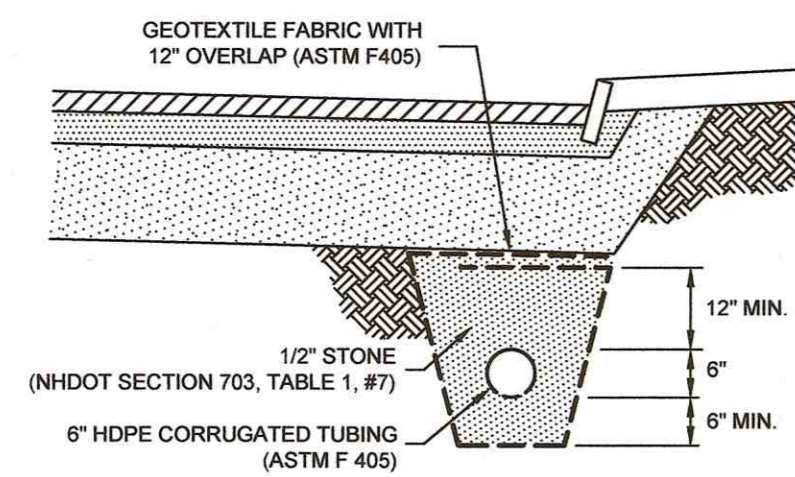
TYPICAL SECTION - GREEN MEADOW DRIVE
NOT TO SCALE



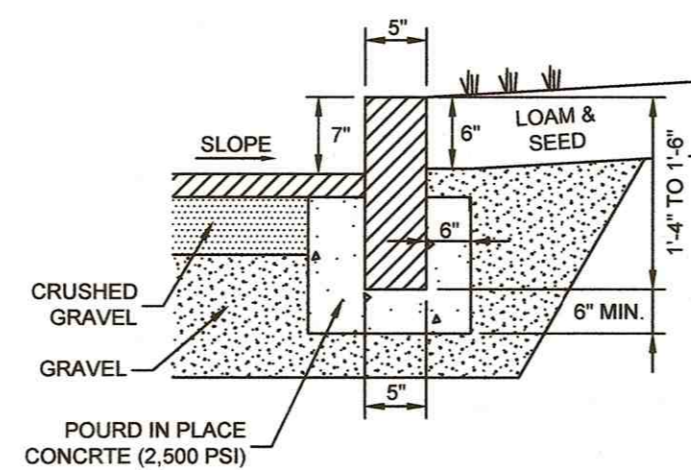
TYPICAL SECTION - CUL-DE-SAC
NOT TO SCALE



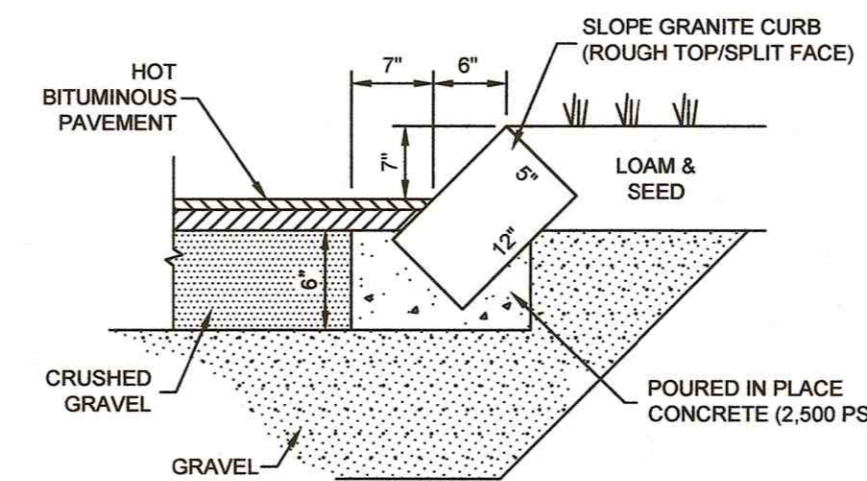
STONE BOUND DETAIL
NOT TO SCALE



ROADWAY UNDERDRAIN DETAIL
NOT TO SCALE



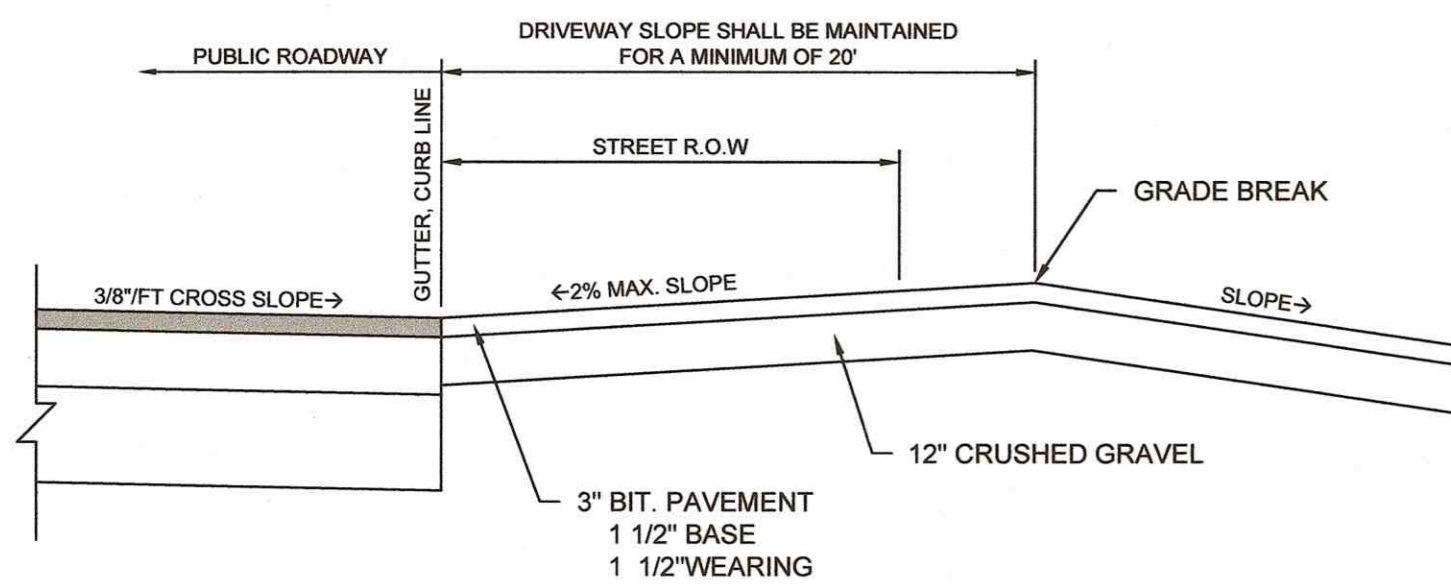
STRAIGHT OR CURVED VERTICAL GRANITE CURB DETAIL
(ITEM 609.1 OR 609.2, MODIFIED)
NOT TO SCALE



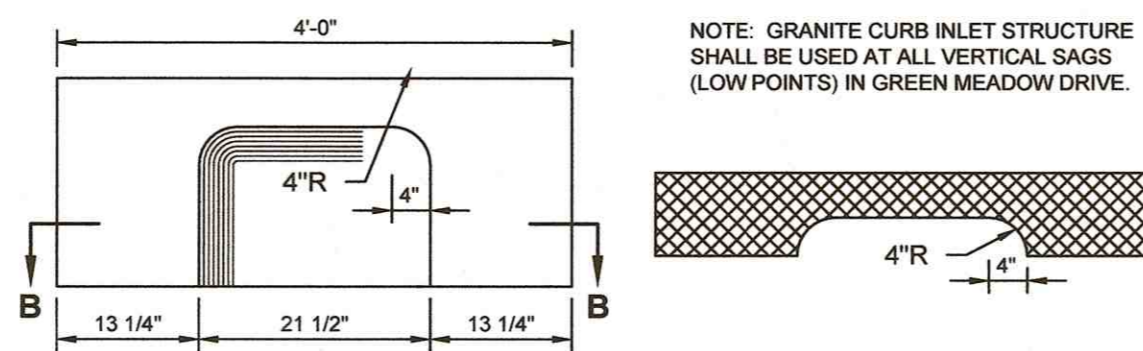
SLOPE GRANITE CURB DETAIL
NOT TO SCALE

NOTE
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ROADWAY CONSTRUCTION ITEMS TO THE PROJECT ENGINEER AND TOWN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

NOTE
FILL MATERIAL FOR THE ROADWAY CONSTRUCTION SHALL BE FROM AN ON-SITE SOURCE. ANY OFF-SITE FILL MATERIAL, IF NEEDED FOR THE ROADWAY CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE TOWN OF HUDSON ENGINEERING DEPARTMENT ENGINEERING TECHNICAL GUIDELINES AND TYPICAL DETAILS, LATEST EDITION



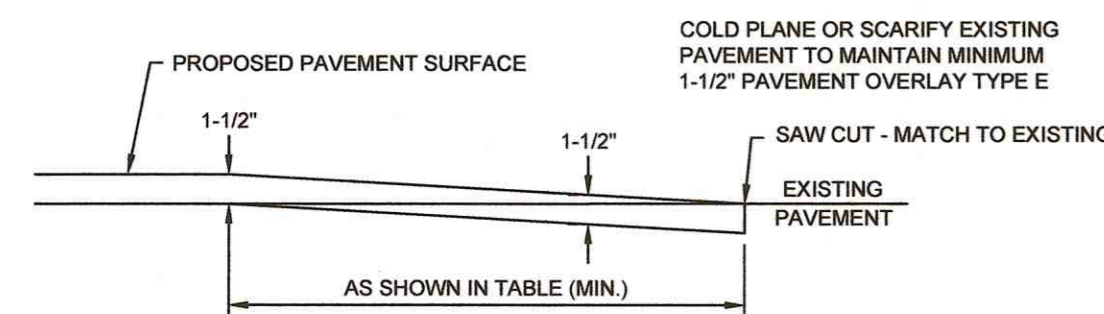
TYPICAL SECTION - DRIVEWAY APRON
NOT TO SCALE



ELEVATION OF TYPE B **SECTION B-B**

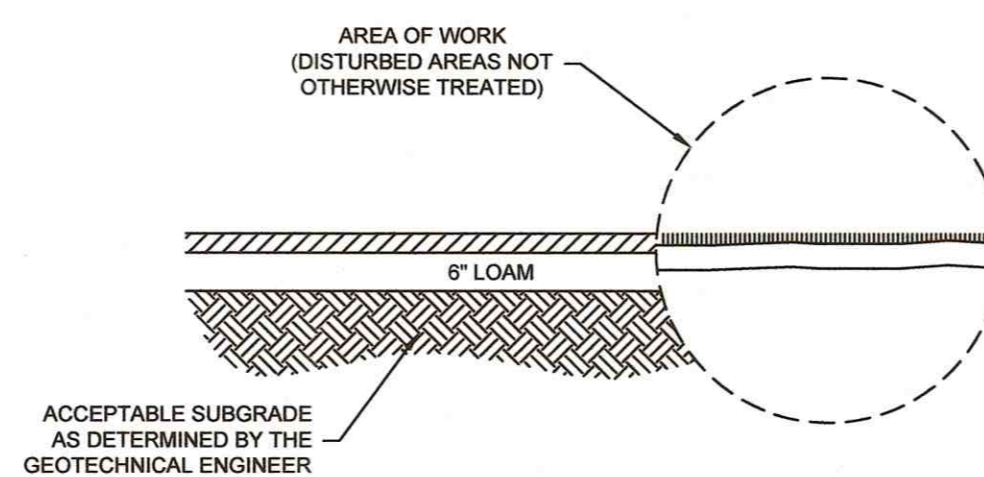
TO BE USED WITH CATCH BASIN TYPE B AND DROP-INLET TYPE B IF CALLED FOR ON THE PLANS

GRANITE CURB INLET DETAIL
NOT TO SCALE

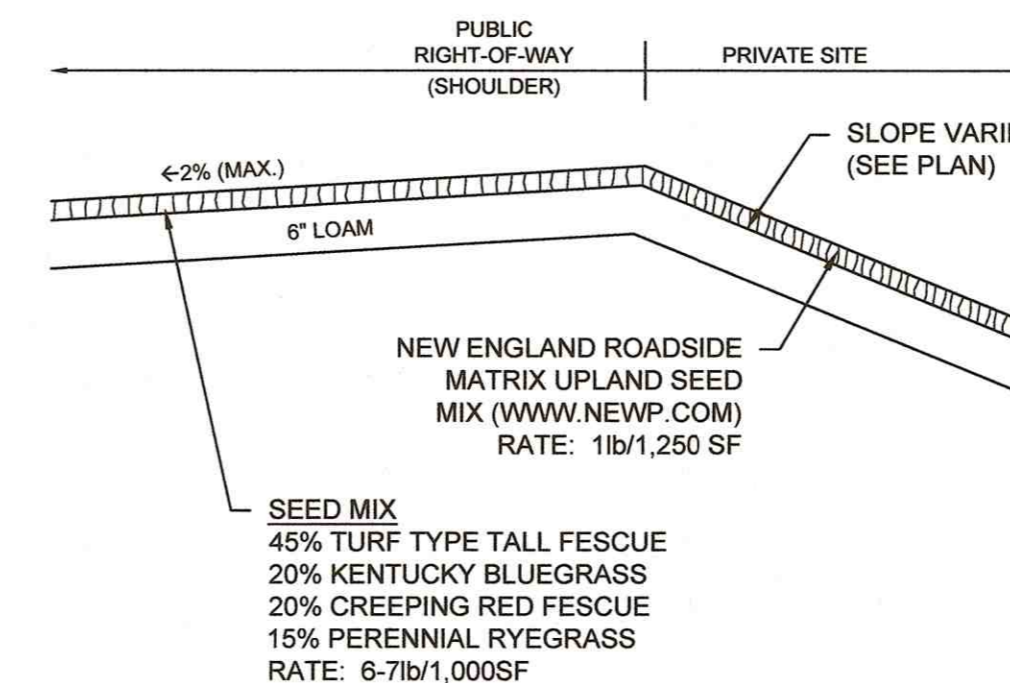


	< 5%	> 5%
NEGATIVE SLOPE	5 FT	10 FT
POSITIVE SLOPE	5 FT	20 FT

PAVEMENT END MATCH DETAIL
NOT TO SCALE



LOAM AND SEED DETAIL 'A'
NOT TO SCALE



LOAM AND SEED DETAIL 'B'
NOT TO SCALE

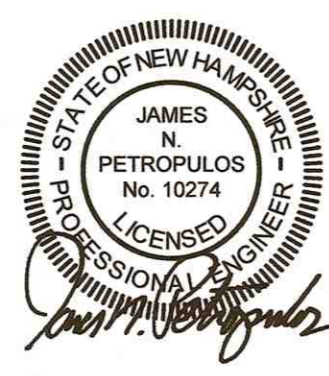
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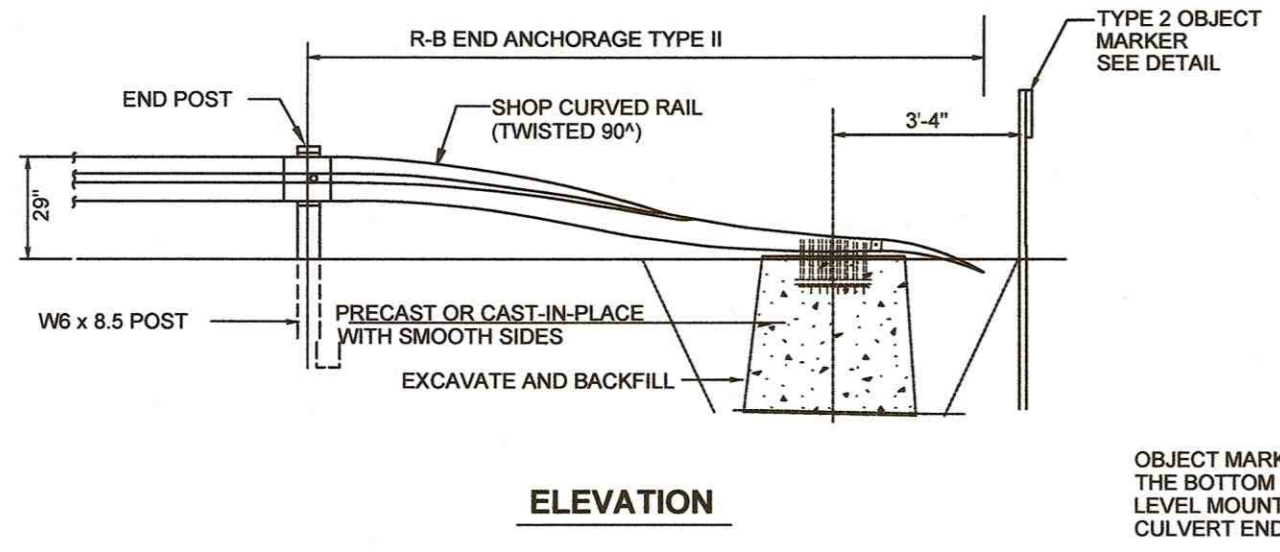
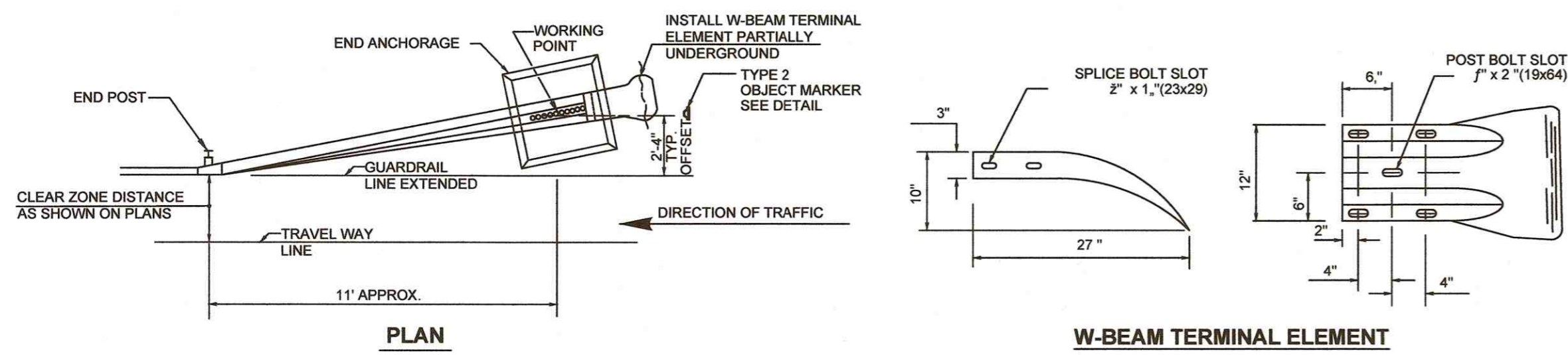
DETAIL SHEET - GENERAL SITE
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SCALE AS SHOWN

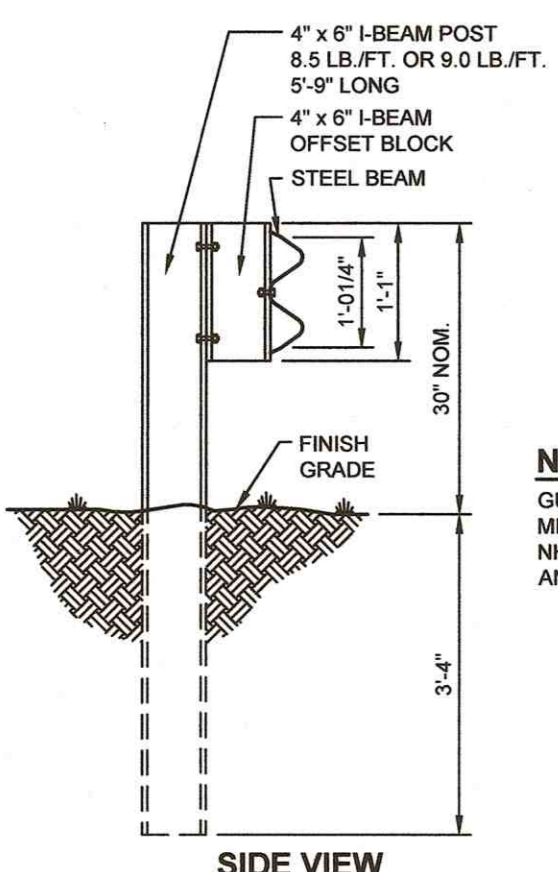
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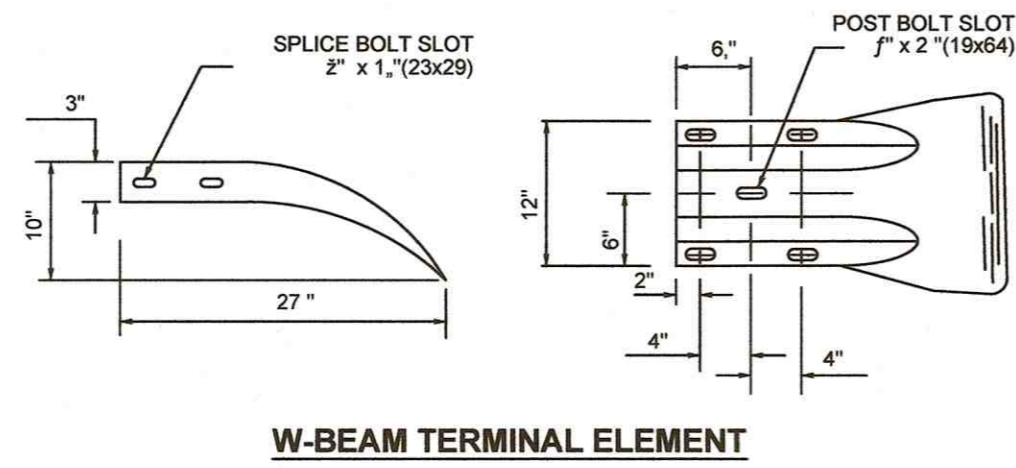


GUARDRAIL DETAILS
NOT TO SCALE

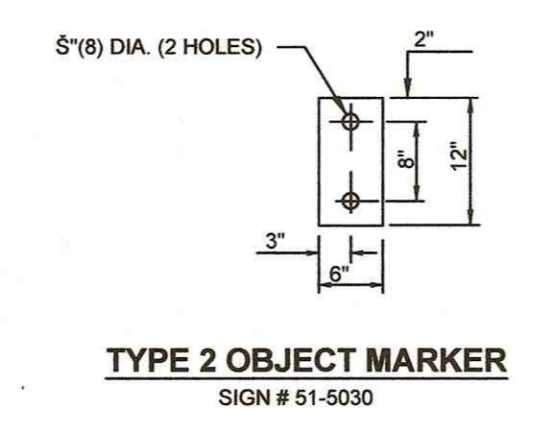


STEEL POST GUARDRAIL DETAIL
NOT TO SCALE

NOTE:
GUARDRAIL MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF SECTION 605 OF THE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

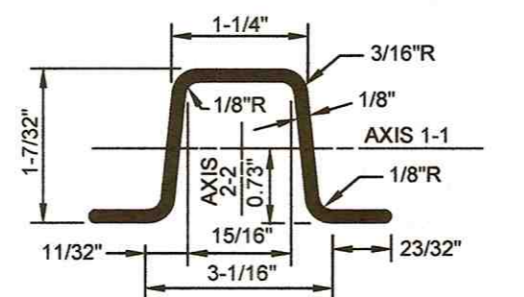


W-BEAM TERMINAL ELEMENT



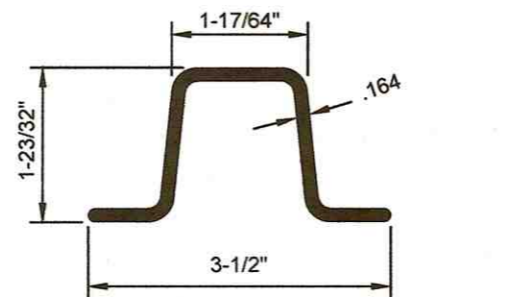
TYPE 2 OBJECT MARKER
SIGN # 51-5030

OBJECT MARKER FACE SHALL BE YELLOW TYPE III RETROREFLECTORIZED. THE BOTTOM OF TYPE 2 OBJECT MARKER SHALL BE 4\"/>



SECTION P2-10, P2-11

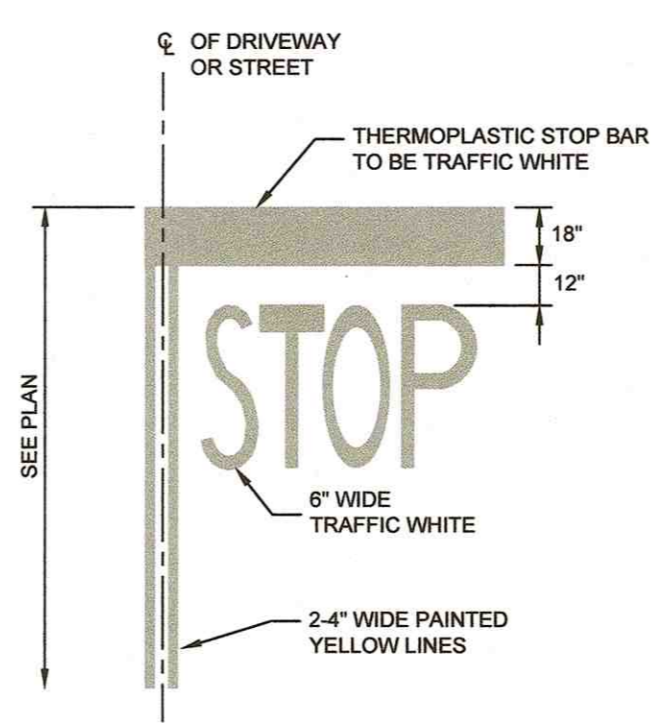
LENGTH: P2-10, 10'-0"; P2-11, 11'-0"
WEIGHT PER LINEAR FOOT: 3.00 LBS
HOLES: 3/8" DIA. 1" C-C FULL LENGTH
STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-5761 (GRADE 1070-1080).
FINISH: SHALL BE PAINTED WITH TWO COATS OF BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING. PAINT SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.



SECTION P-11 THRU P-16

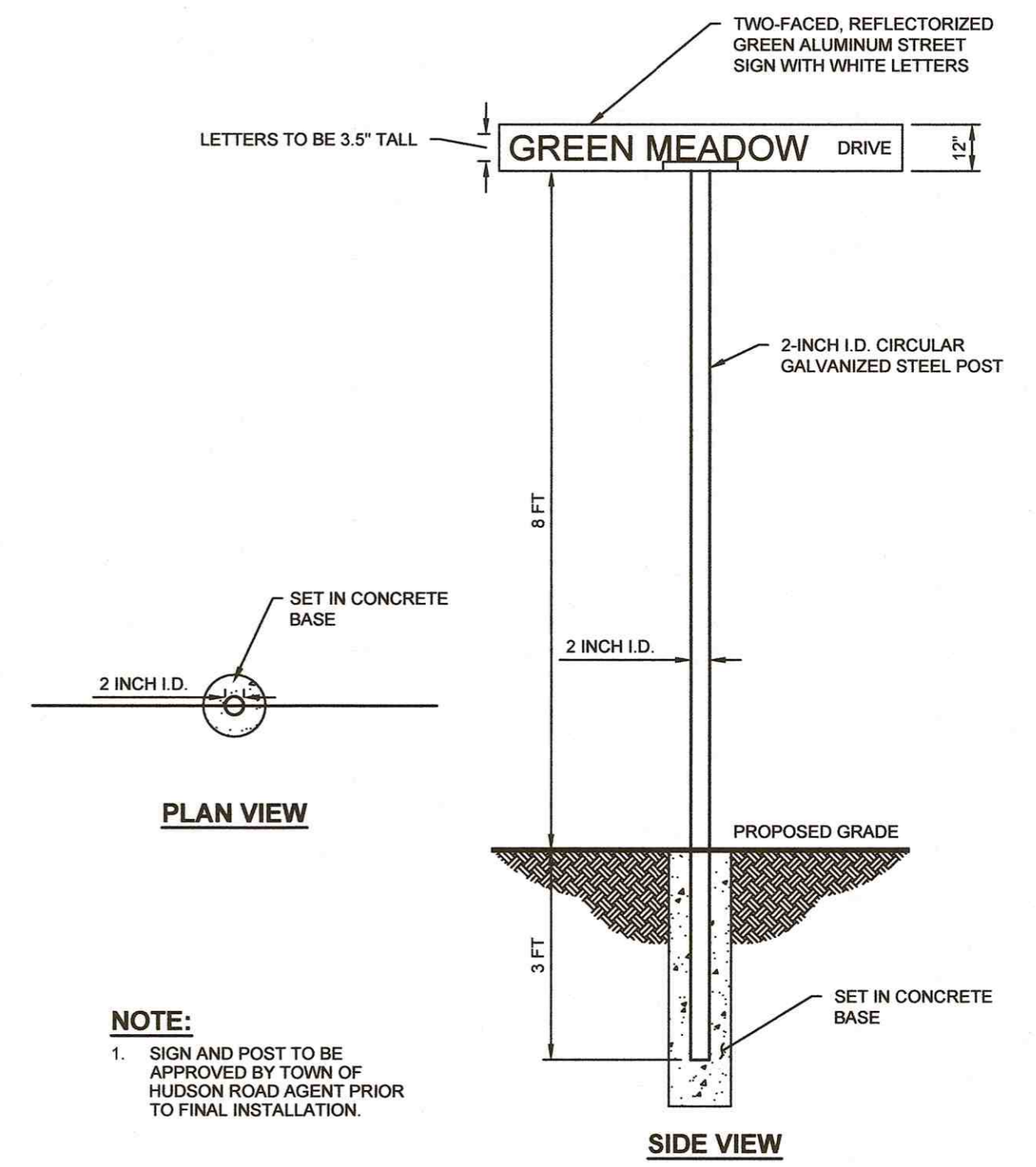
LENGTH: P-11, 11'-0"; P-12, 12'-0"; P-14, 14'-0"; P-16, 16'-0"
WEIGHT PER LINEAR FOOT: 3.00 LBS
STEEL: SAME AS FOR P2-10, P2-11
FINISH: SAME AS FOR P2-10, P2-11
DIMENSIONS SHOWN ARE NOMINAL. ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.

TRAFFIC SIGN SUPPORT DETAIL
NOT TO SCALE



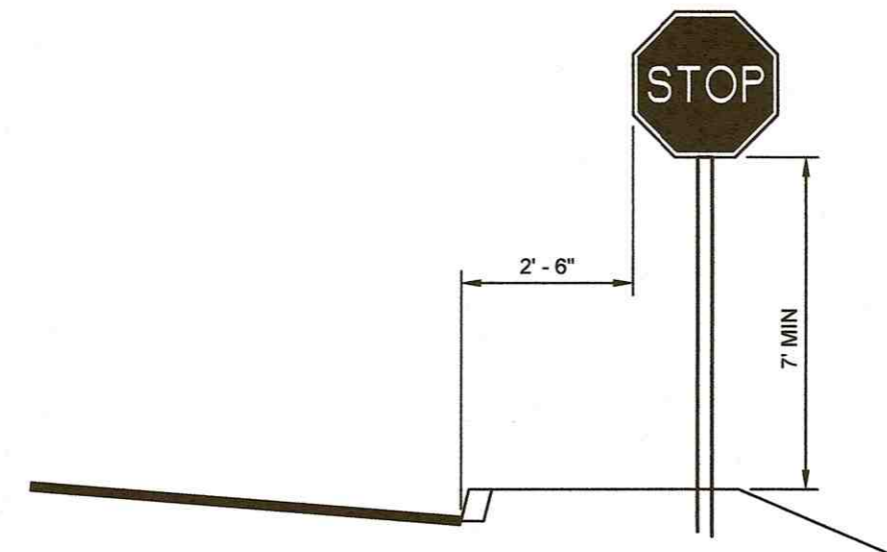
STOP BAR DETAIL
NOT TO SCALE

SIGN LEGEND					
TEXT SEE MUTGD FOR TEXT DIMENSIONS	IDENTIFICATION NUMBER	SIZE WIDTH/HEIGHT	TEXT SEE MUTGD FOR TEXT DIMENSIONS	IDENTIFICATION NUMBER	SIZE WIDTH/HEIGHT
	TEXT DIMENSIONS			TEXT DIMENSIONS	
	R1-1	30"/30"		W14-1	36"/36"
	R2-1 (20)	34"/30"		R1-2	36"/36"/36"
	R3-8b (MODIFIED)	30"/48"		R6-4	30"/24"
	R4-7	18"/30"		R6-5P	30"/30"

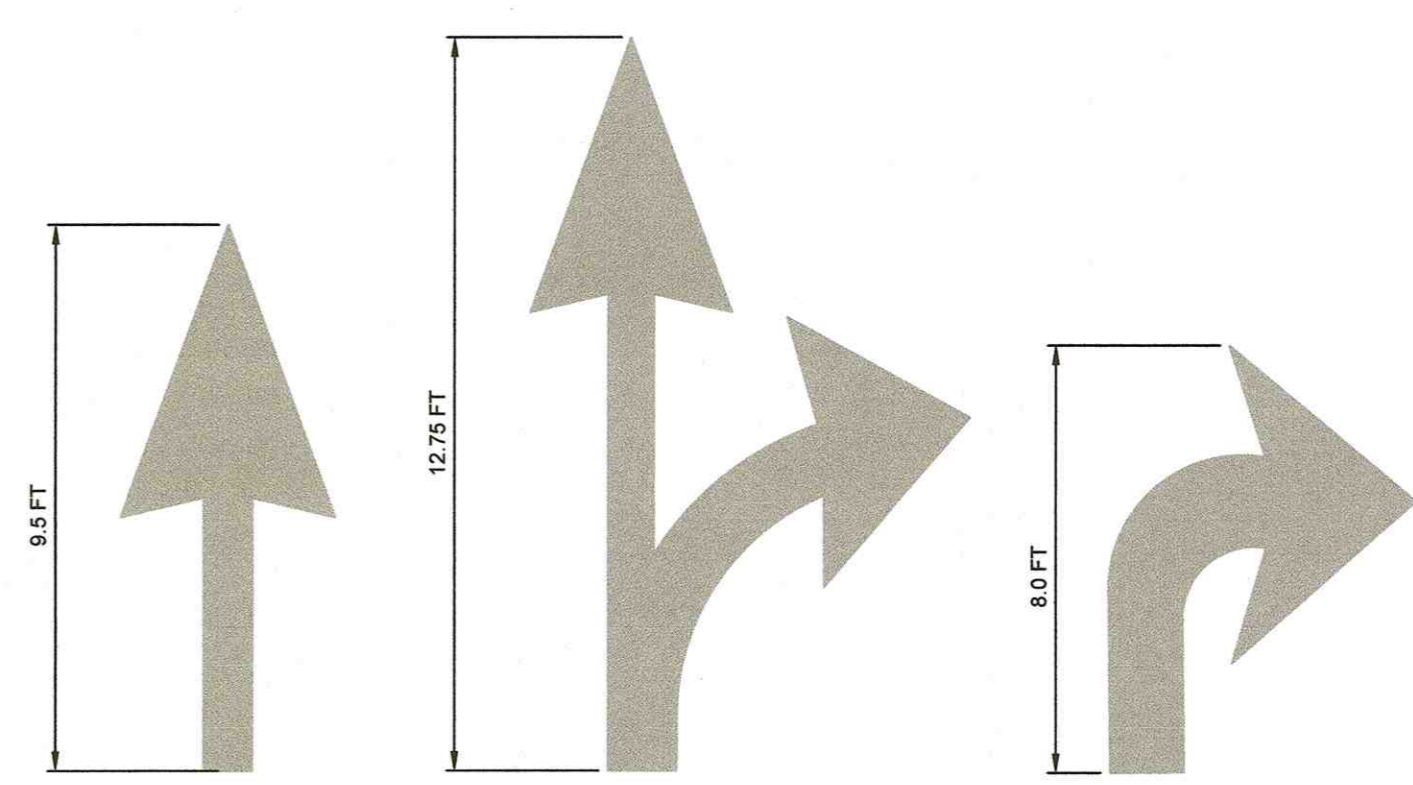


STREET SIGN AND POST
NOT TO SCALE

NOTE:
1. SIGN AND POST TO BE APPROVED BY TOWN OF HUDSON ROAD AGENT PRIOR TO FINAL INSTALLATION.



STOP SIGN LOCATION DETAIL
NOT TO SCALE



PAINTED TRAFFIC ARROWS DETAIL
NOT TO SCALE

NOTE:
1. ALL FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT AS PER DIMENSIONS SHOWN.
2. REVERSE ARROWS FOR OPPOSITE DIRECTIONS OF FLOW.

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DETAIL SHEET - GENERAL SITE (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
LOWELL AND STEELE ROADS
HUDSON, NEW HAMPSHIRE
PREPARED FOR: **LANGAN**
888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100
RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

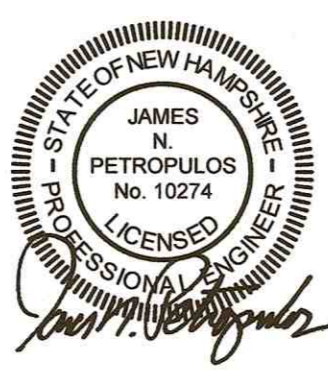
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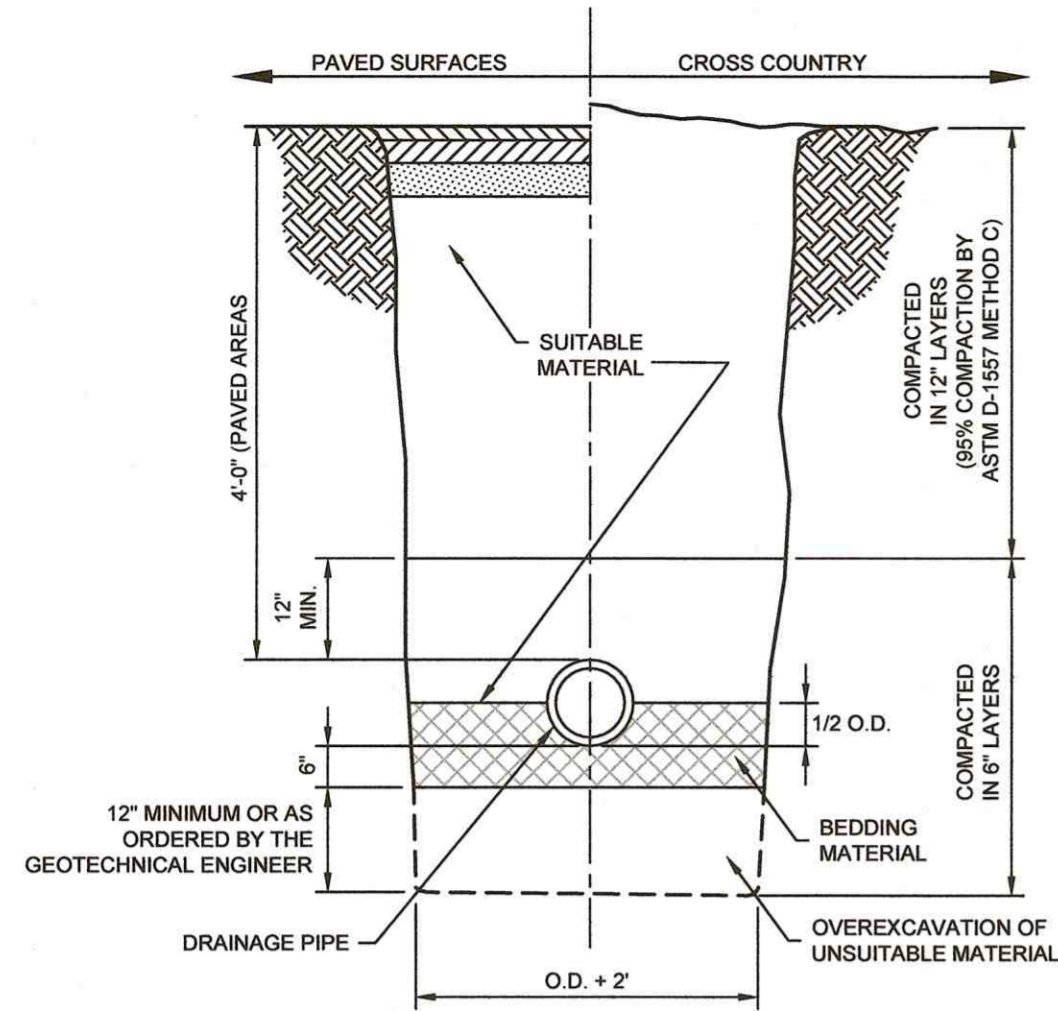
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3 Congress Street Nashua, NH 03062 (603) 883-2057
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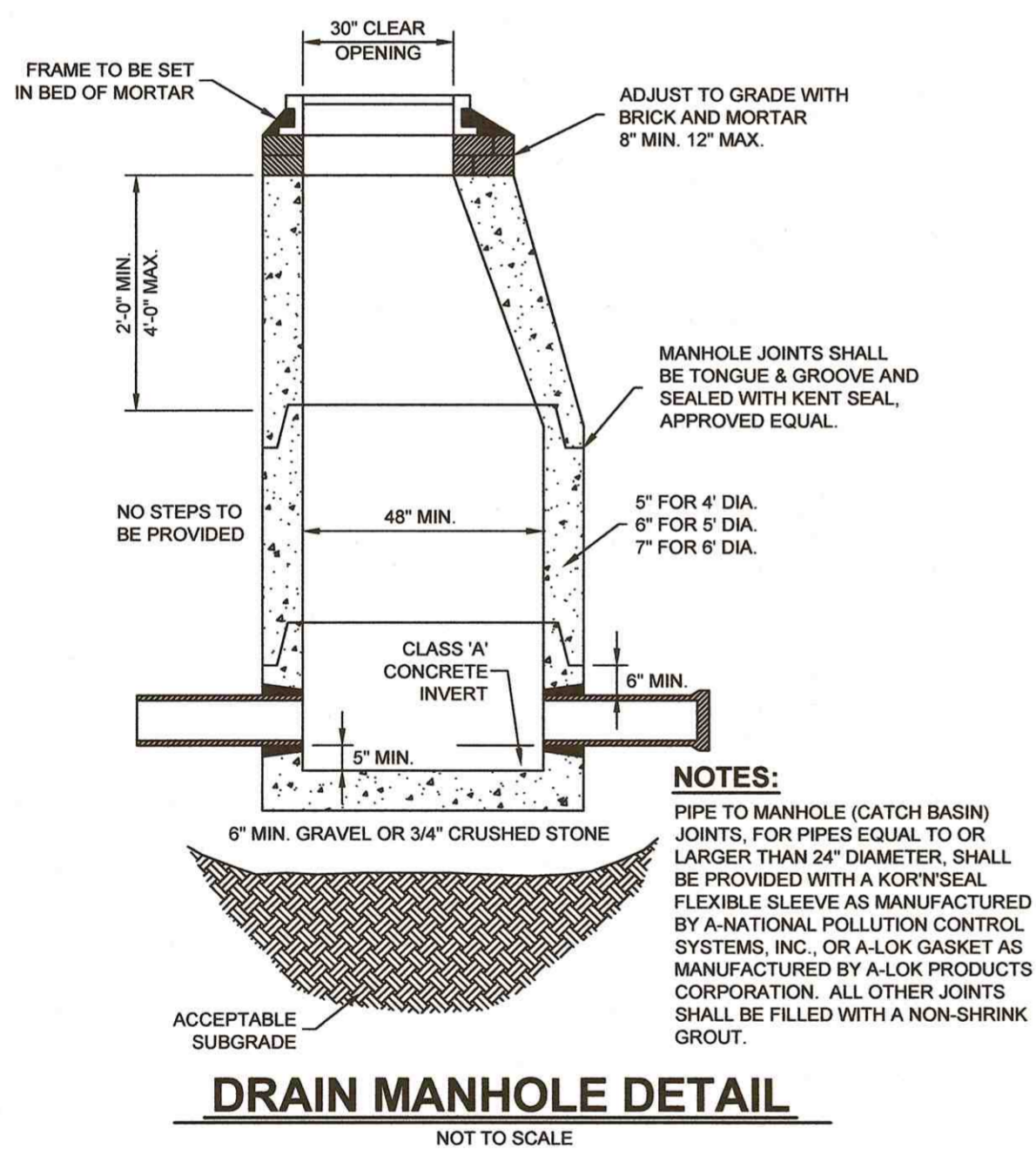




BEDDING MATERIAL:

BEDDING SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33, STONE SIZE #67
 100% PASSING 1 INCH SCREEN
 90-100% PASSING 3/4 INCH SCREEN
 20-50% PASSING 3/8 INCH SCREEN
 0-10% PASSING #4 SIEVE
 0-5% PASSING #8 SIEVE
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 TO 3/4 INCH SHALL BE USED.

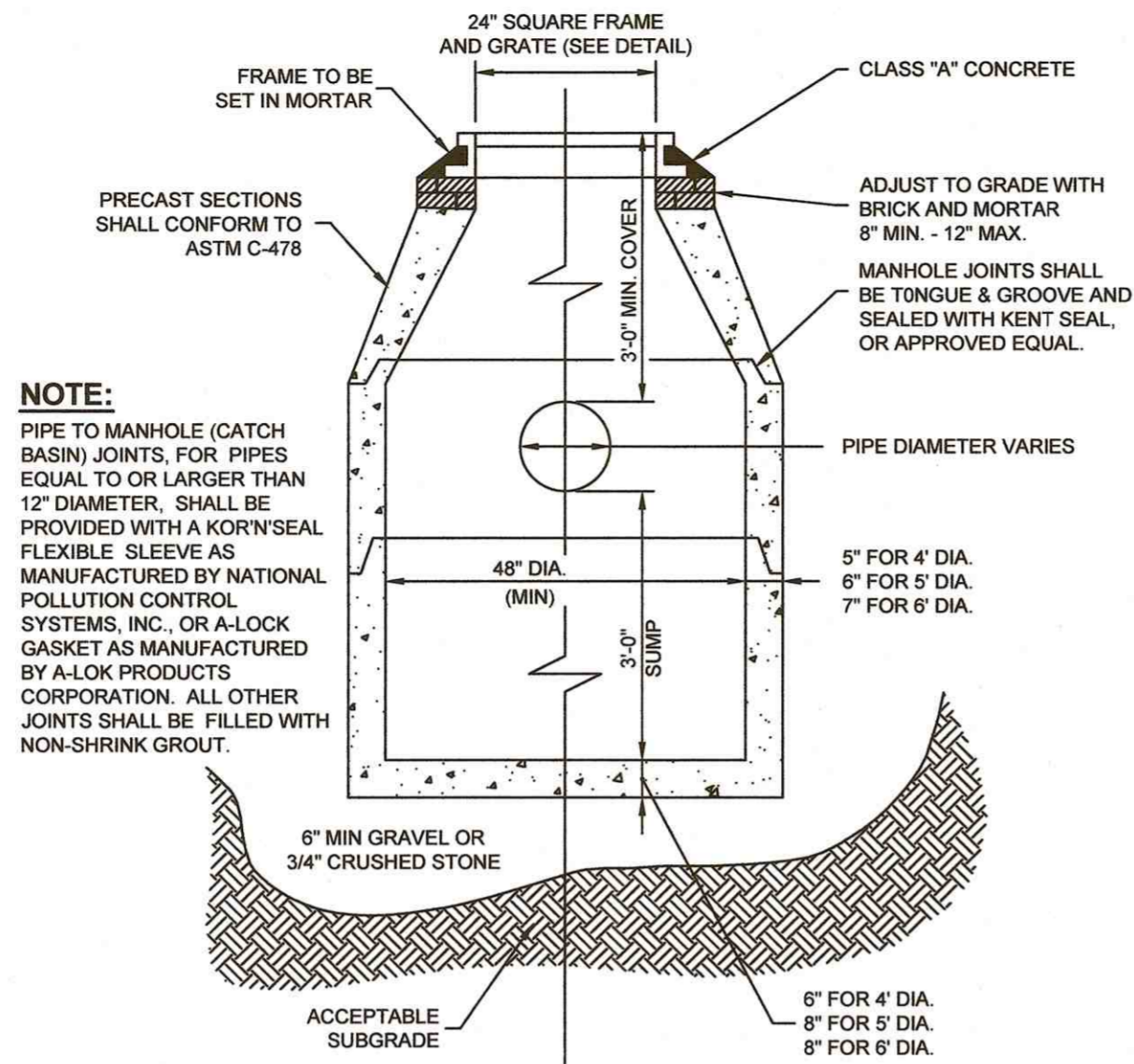
TYPICAL DRAINAGE TRENCH SECTION
 NOT TO SCALE



NOTES:

PIPE TO MANHOLE (CATCH BASIN) JOINTS, FOR PIPES EQUAL TO OR LARGER THAN 24\"/>

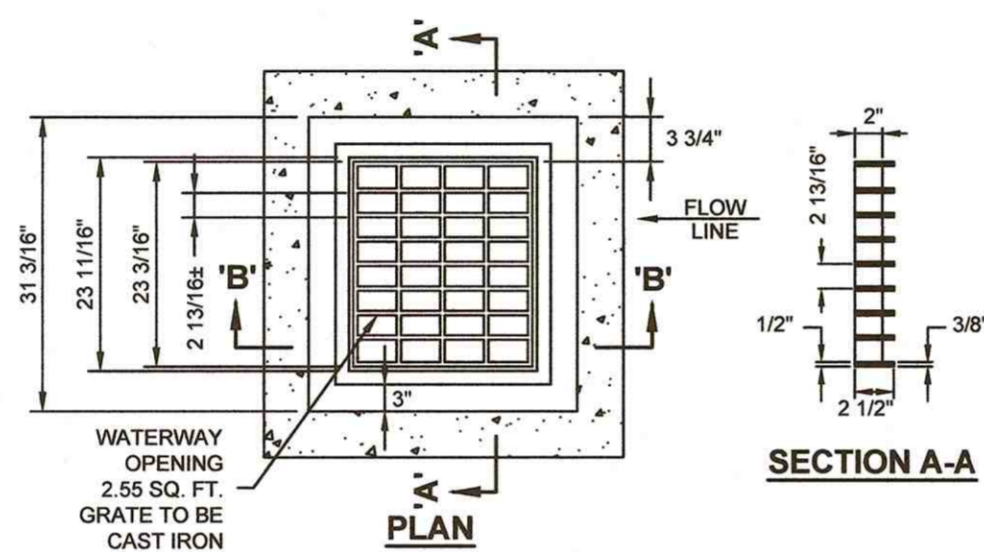
NOT TO SCALE



NOTE:

PIPE TO MANHOLE (CATCH BASIN) JOINTS, FOR PIPES EQUAL TO OR LARGER THAN 12\"/>

CATCH BASIN DETAIL
 NOT TO SCALE



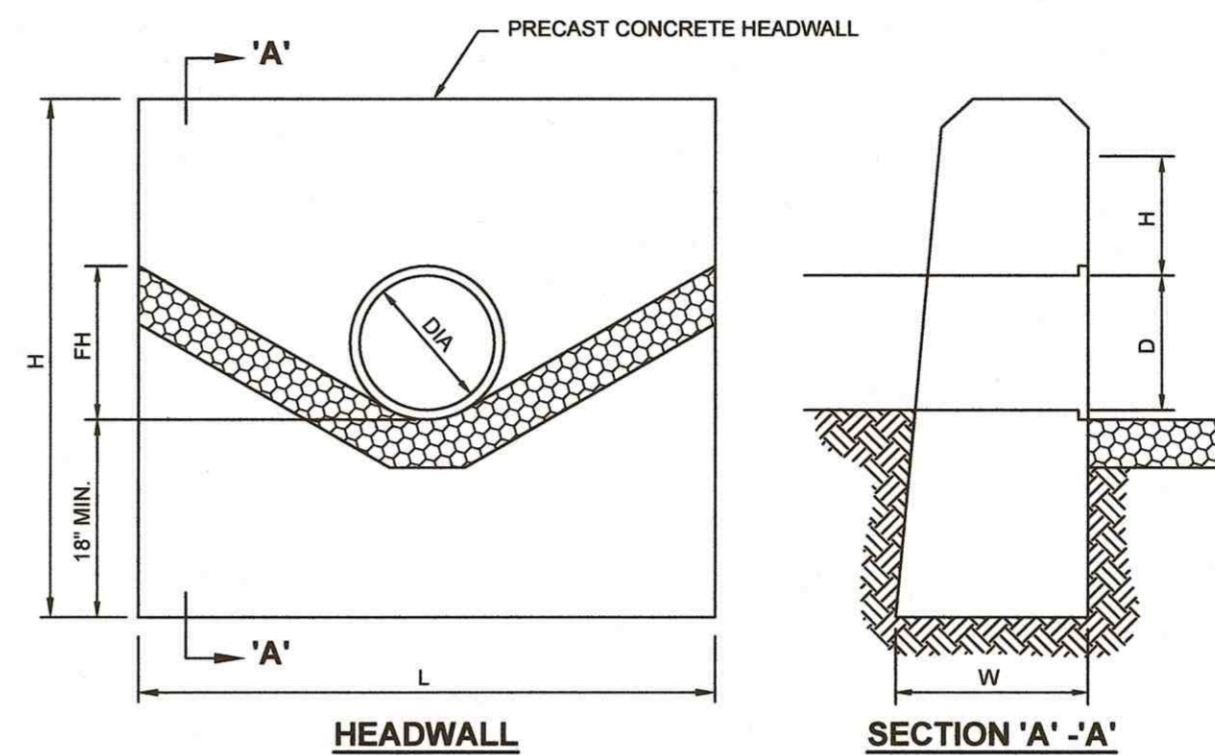
SECTION B-B

CATCH BASIN - TYPE B FRAME AND COVER DETAIL
 (NHDOT STANDARD)
 NOT TO SCALE

LOCATION	DIA (IN)	HEADWALL LENGTH (L)	HEADWALL HEIGHT (H)	BOTTOM HEADWALL WIDTH (FT)	INVERT
HW 90	18	8	6	1.5	122.46
HW 130	15	8	6	1.5	127.25
HW 131	15	8	6	1.5	128.75
HW 140	15	8	6	1.5	150.01

NOTES:

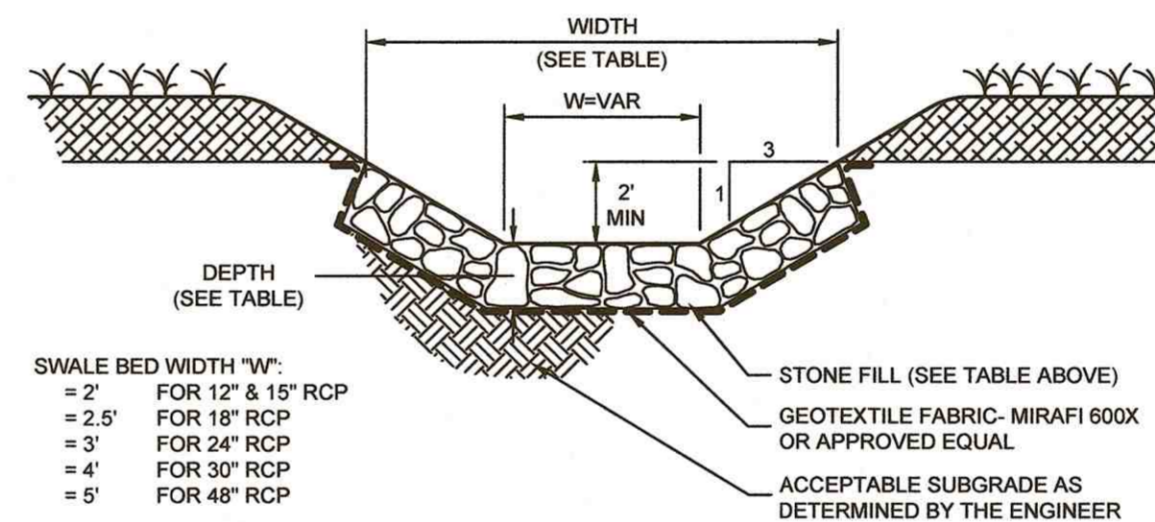
1. ALL DIMENSIONS GIVEN IN FEET EXCEPT PIPE DIAMETER.
2. PROVIDED BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END WALL.
3. OUTLET PROTECTION SHALL BE DESIGNED AS PER NHDOT STANDARDS.



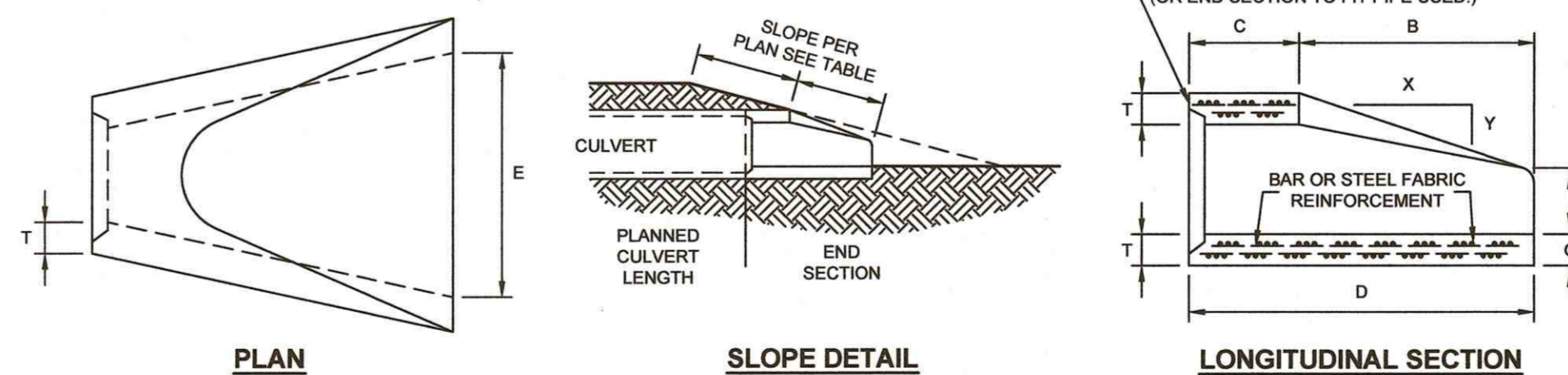
HEADWALL DETAIL
 NOT TO SCALE

RIPRAP OUTLET PROTECTION SPECIFICATION TABLE

LOCATION	WIDTH (FT)	LENGTH (FT)	DEPTH (IN)	50 (IN)	MATERIAL
CES 1	16	20	12	6	ITEM 585.3 STONE FILL CLASS C
HW 130	10	15	12	6	ITEM 585.3 STONE FILL CLASS C
HW 140	9	14	12	6	ITEM 585.3 STONE FILL CLASS C



RIPRAP DETAIL AT HEADWALL/OUTLET DETAIL
 NOT TO SCALE



NOTE

DESIGN OF END SECTION SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE, AASHTO CLASS III

DIA.	WEIGHT PER SECTION	APPROX. SLOPE X to Y	A	B	C	D	E	G	R	T
12"	530	3 TO 1	4"	24"	48 7/8"	72 7/8"	24"	2"	1 1/2"	2"
15"	740	3 TO 1	6"	27"	46"	73"	30"	2 1/4"	1 1/2"	2 1/4"
18"	990	3 TO 1	9"	27"	46"	73"	36"	2 1/2"	1 1/2"	2 1/2"
24"	1520	3 TO 1	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"	1 1/2"	3"

CONCRETE END SECTION FOR R.C.P.
 NOT TO SCALE

DRAINAGE NOTES:

1. DRAINAGE PIPE, STRUCTURES AND APPURTENANCES SHALL COMPLY WITH THE LATEST EDITION OF THE TOWN OF HUDSON ENGINEERING DEPARTMENT - ENGINEERING TECHNICAL GUIDELINES AND TYPICAL DETAILS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE PROJECT ENGINEER AND TOWN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. ALL DRAINAGE PIPES SHALL BE CLASS IV 3000 (RCP) UNLESS OTHERWISE NOTED. CATCH BASINS SHALL BE TYPE 'B' AND HAVE A 3 FT SUMPS UNLESS OTHERWISE NOTED.
3. ALL DRAINAGE PIPE SHALL BE FURNISHED AND INSTALLED WITH FLEXIBLE GASKETS. JOINTS SHALL BE MADE WITH OIL RESISTANT COMPRESSION RINGS OF AN ELASTOMERIC MATERIAL CONFORMING TO ASTM C-443. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE FOLLOWED.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL DRAINAGE STRUCTURES AND PIPE TO THE ENGINEER FOR REVIEW AND APPROVAL.

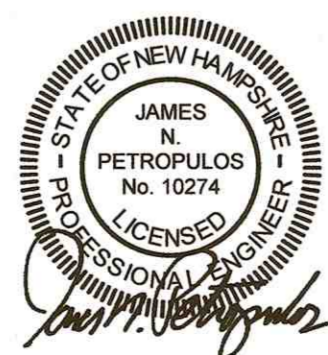
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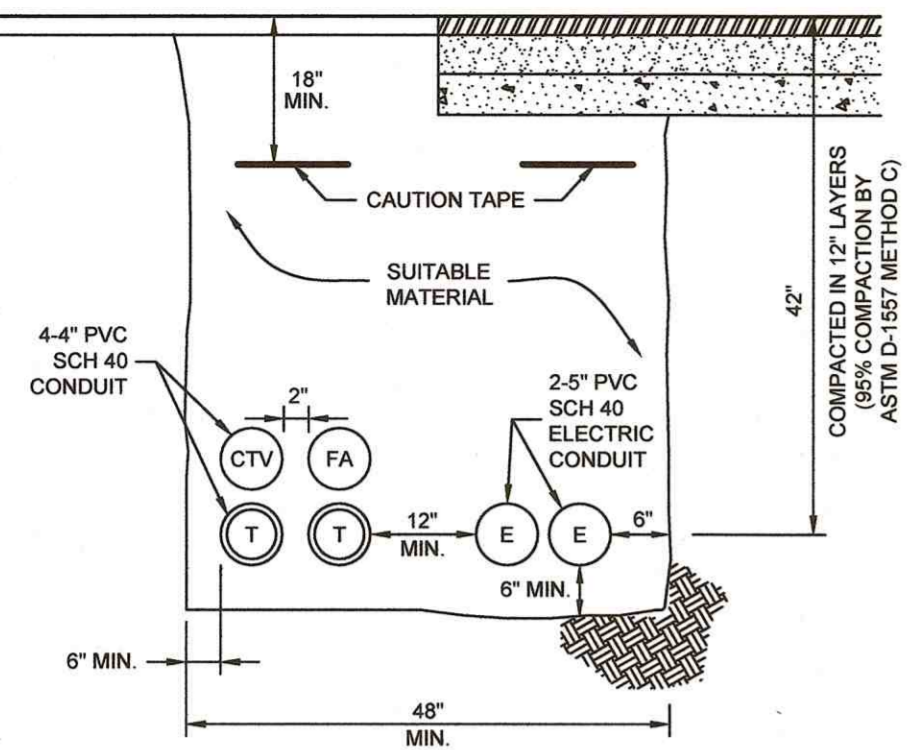
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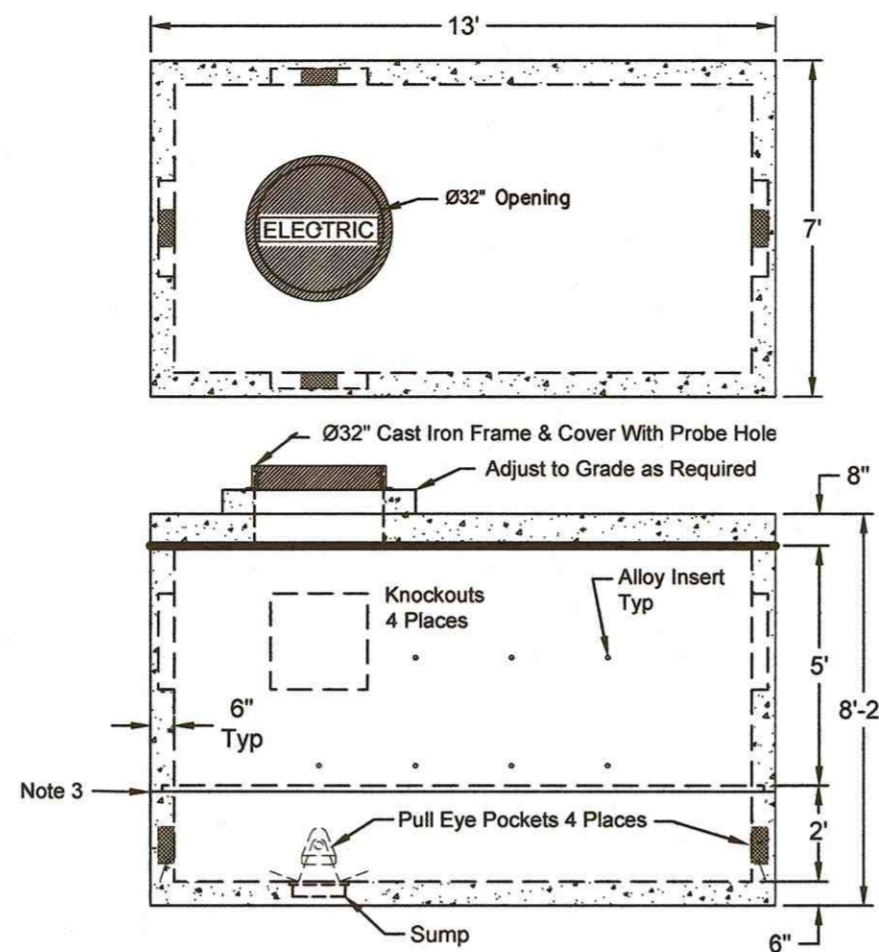
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NOTE:
ALL CONDUIT AND TRENCH WORK SHALL CONFORM TO THEIR RESPECTIVE UTILITY COMPANY REQUIREMENTS

TYPICAL UTILITY TRENCH SECTION

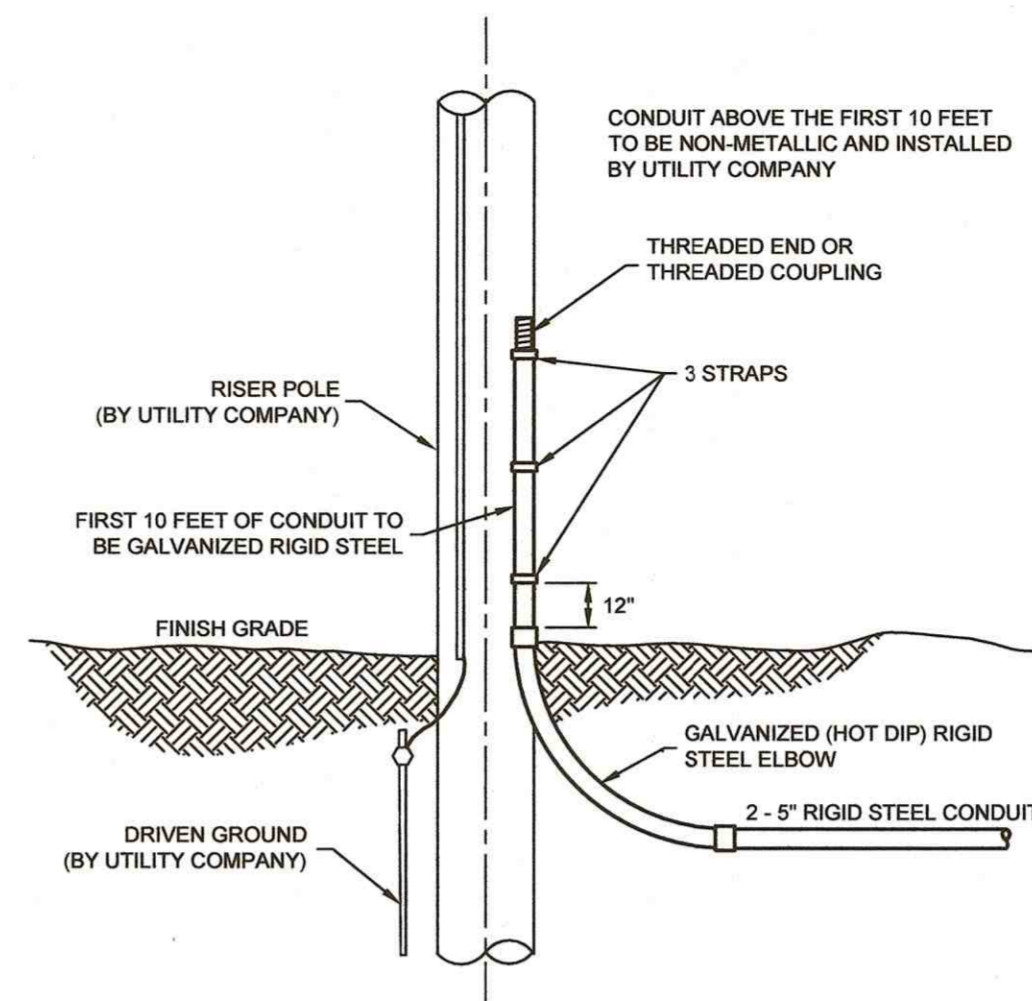
NOT TO SCALE



GENERAL NOTES:
1. Steel Reinforcement Conforms to Latest ASTM Specifications: ASTM-A615 Grade 60 Rebar
2. Concrete: $f_c = 5,000$ psi @ 28 Days Minimum
3. Butyl Rubber Joint Sealant Provided
4. Design Loading: AASHTO-HS20-44, ASTM C-890-06
5. Design Specified As: ASTM C-1227-08, ASTM C-913-08
6. Exterior Coating Provided
7. Meets Or Exceeds Eversource Dwg # R-10001-1

POWER MANHOLE DETAIL

NOT TO SCALE



NOTES:
1. LOCATE RISE ON POLE AWAY FROM TRAFFIC.
2. TELEPHONE RISER PIPE DETAIL IS SAME EXCEPT: CONDUIT MATERIAL IS 4" PVC BELOW GROUND, AND 4" RIGID STEEL ABOVE GROUND.

ELECTRIC RISER PIPE INSTALLATION DETAIL

NOT TO SCALE

POWER NOTES:

- ALL POWER RELATED WORK SHALL COMPLY WITH EVERSOURCE STANDARDS AND SPECIFICATIONS.
- THE UTILITY POLE AND OVERHEAD WIRE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS WITH EVERSOURCE PRIOR TO ANY POWER/TELEPHONE WORK.

GAS NOTE:

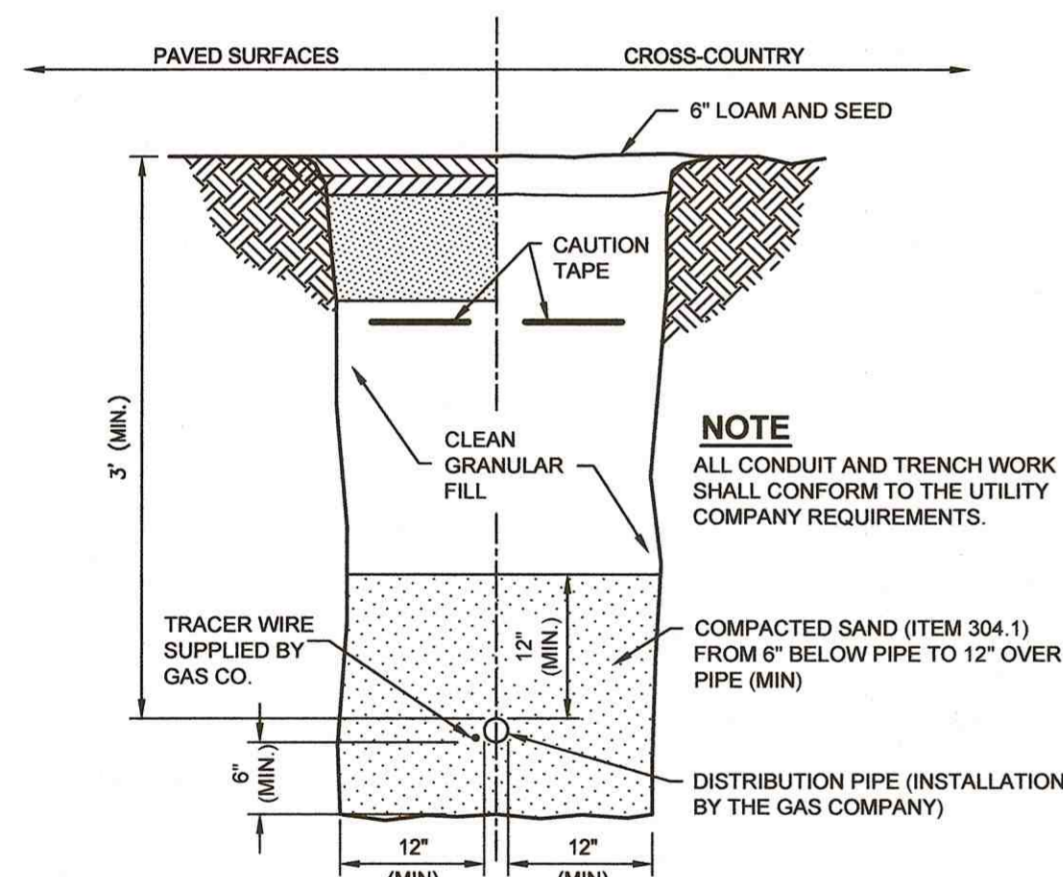
- THE DEVELOPER SHALL COORDINATE THE EXACT SIZE AND LOCATION OF THE NATURAL GAS MAIN AND SERVICES WITH LIBERTY UTILITIES.

TELECOMMUNICATIONS NOTE:

- ALL TELECOMMUNICATIONS RELATED WORK SHALL COMPLY WITH CONSOLIDATED COMMUNICATIONS STANDARDS AND SPECIFICATIONS. ALL TELECOMMUNICATIONS LINE LOCATIONS ARE APPROXIMATE AND SHOWN FOR COORDINATION PURPOSES ONLY.

ROADWAY LIGHTING NOTE:

- UPON ACCEPTANCE OF GREEN MEADOW DRIVE BY THE HUDSON BOARD OF SELECTMAN (WITH DPW ENGINEERING DEPARTMENT RECOMMENDATIONS) THE ROADWAY LIGHTING SYSTEM SHALL BECOME THE RESPONSIBILITY OF THE TOWN OF HUDSON.



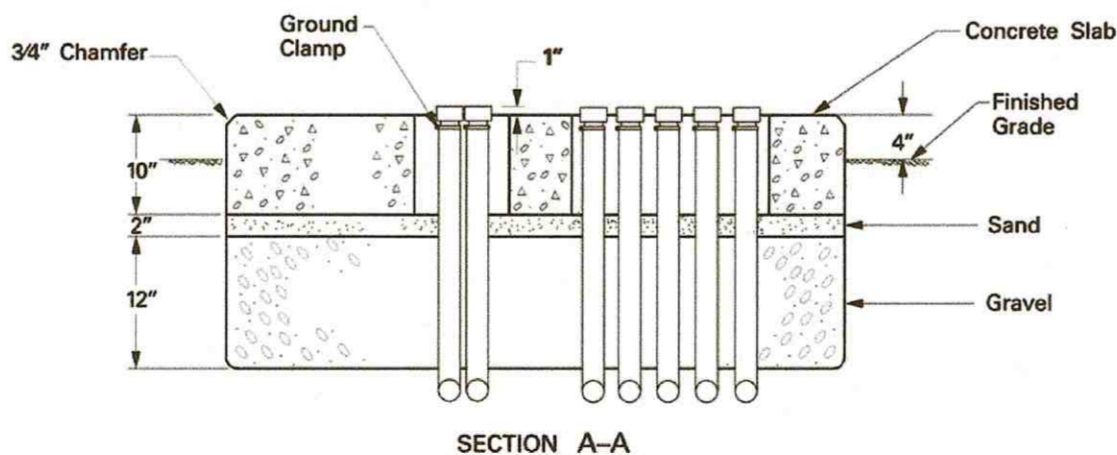
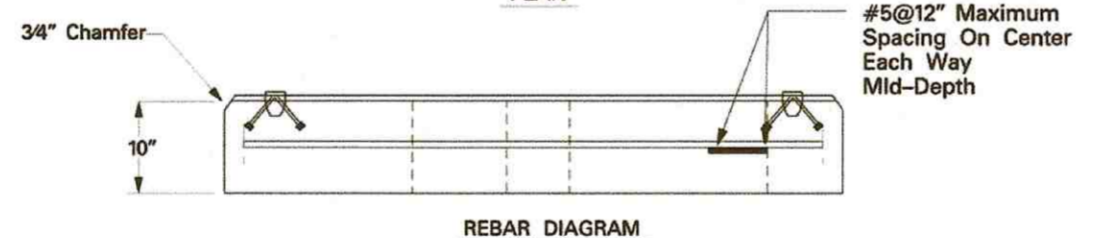
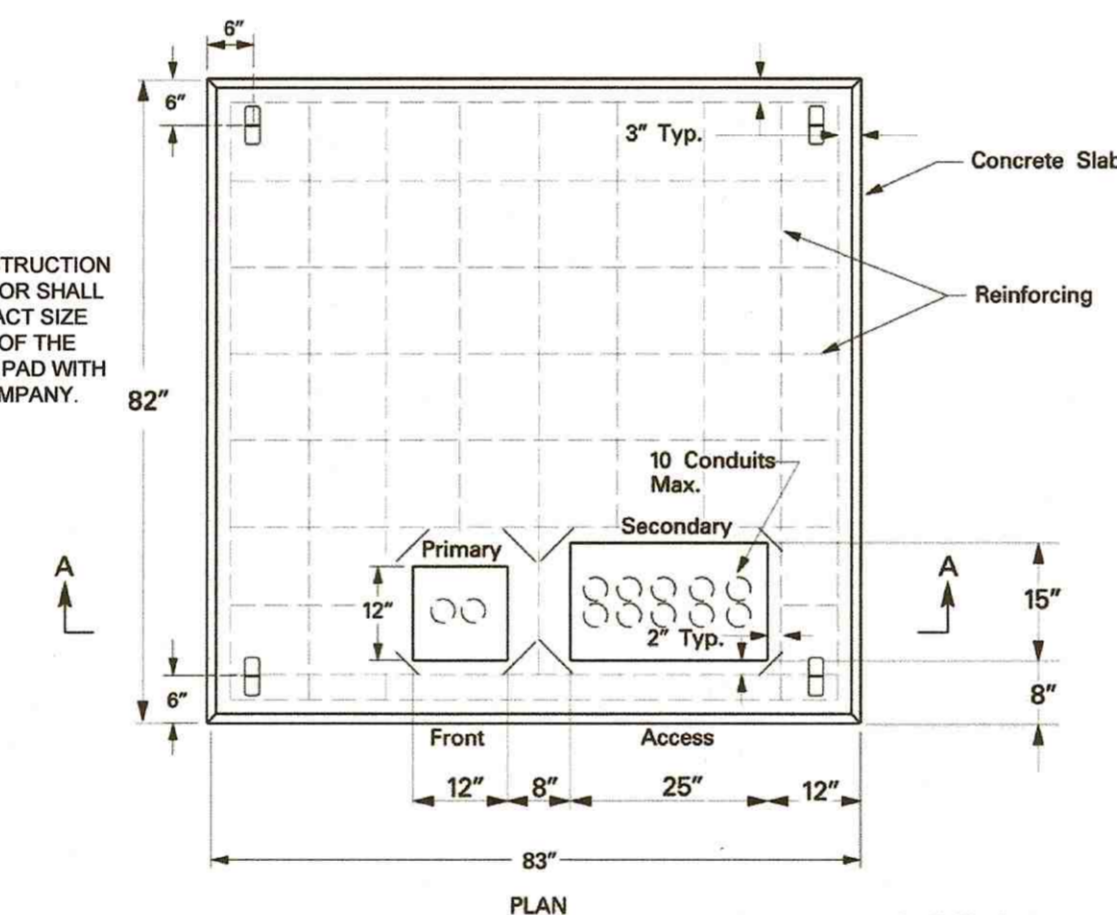
NOTE:
ALL CONDUIT AND TRENCH WORK SHALL CONFORM TO THE UTILITY COMPANY REQUIREMENTS.

GAS MAIN TRENCH SECTION

NOT TO SCALE

Figure 27.0-2 15kV Transformer Pad 750-2500kVA 44-114 (ref-44-114/UF8B)

NOTE:
PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE EXACT SIZE AND LOCATION OF THE TRANSFORMER PAD WITH THE UTILITY COMPANY.



TRANSFORMER PAD DETAIL

NOT TO SCALE

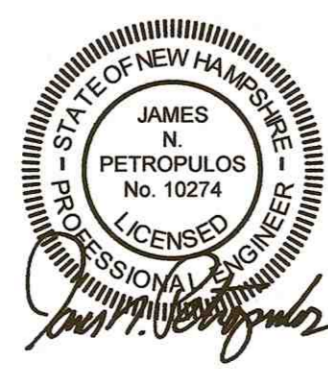
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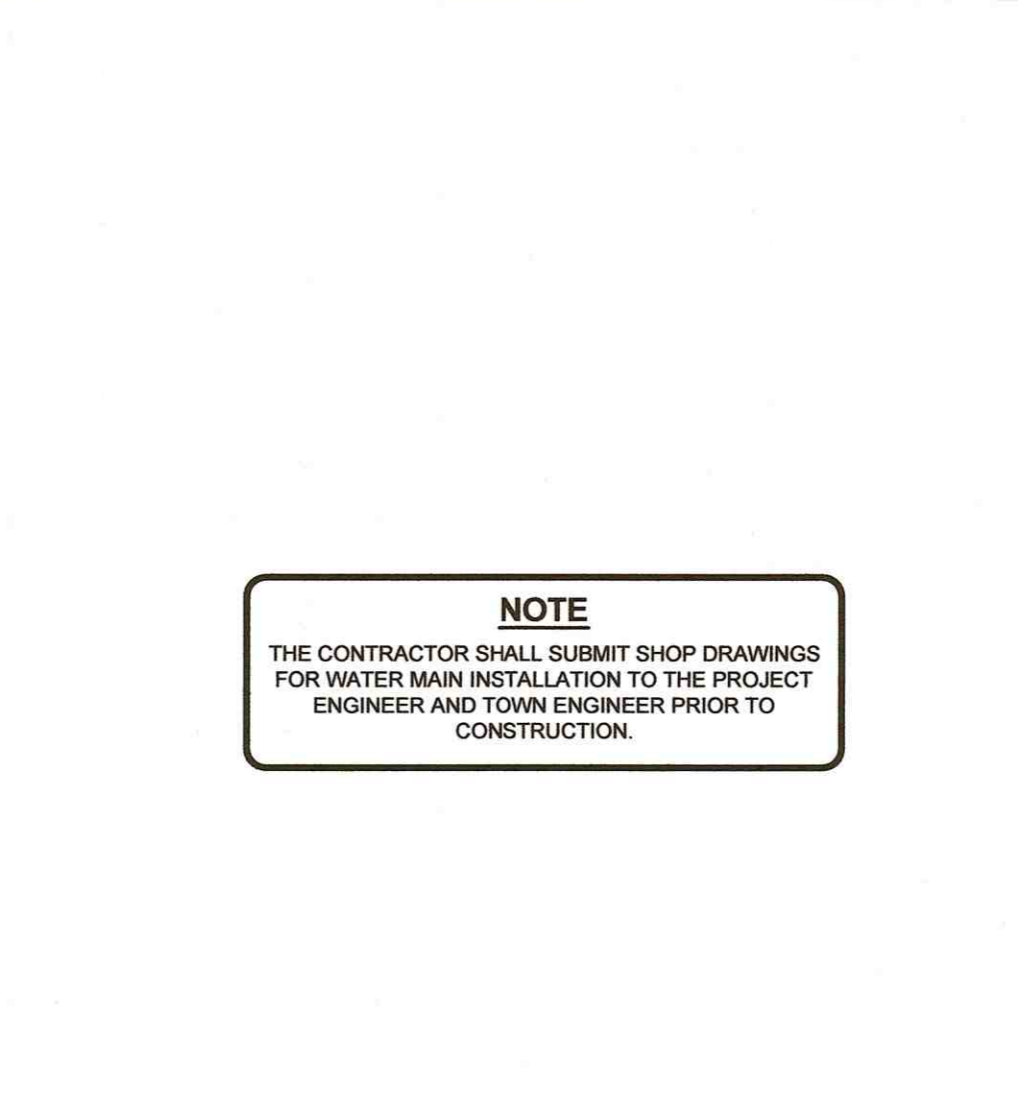
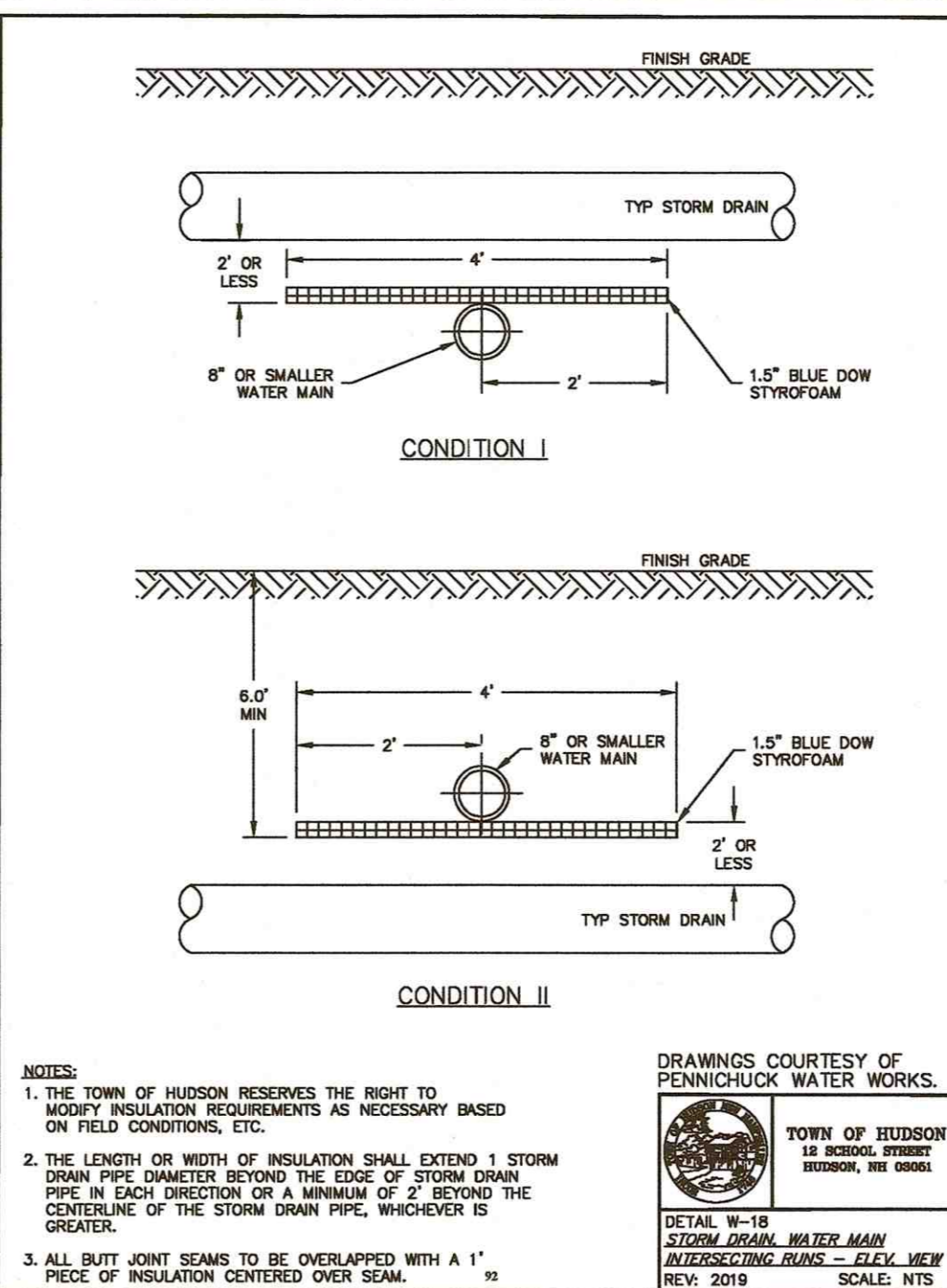
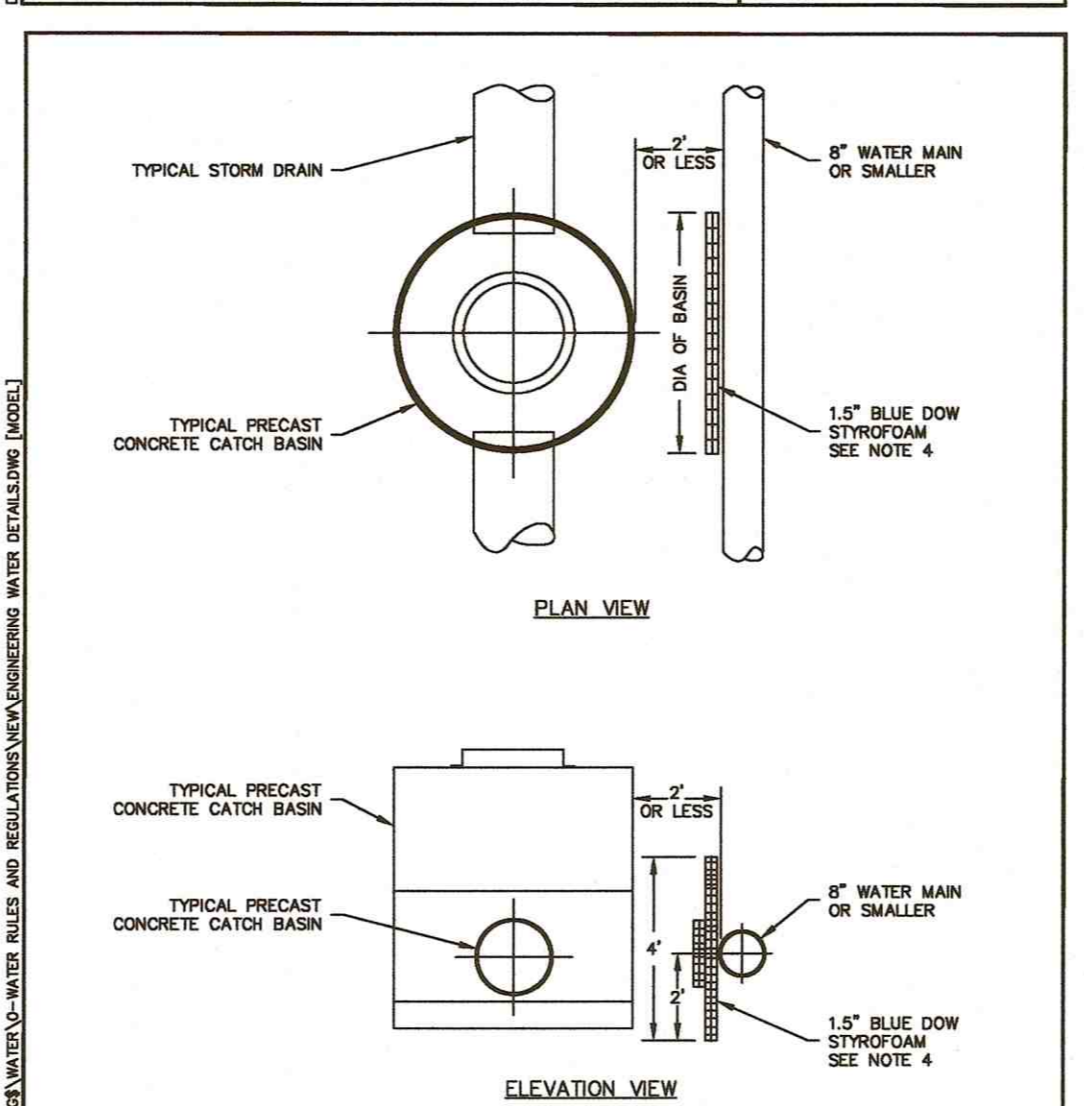
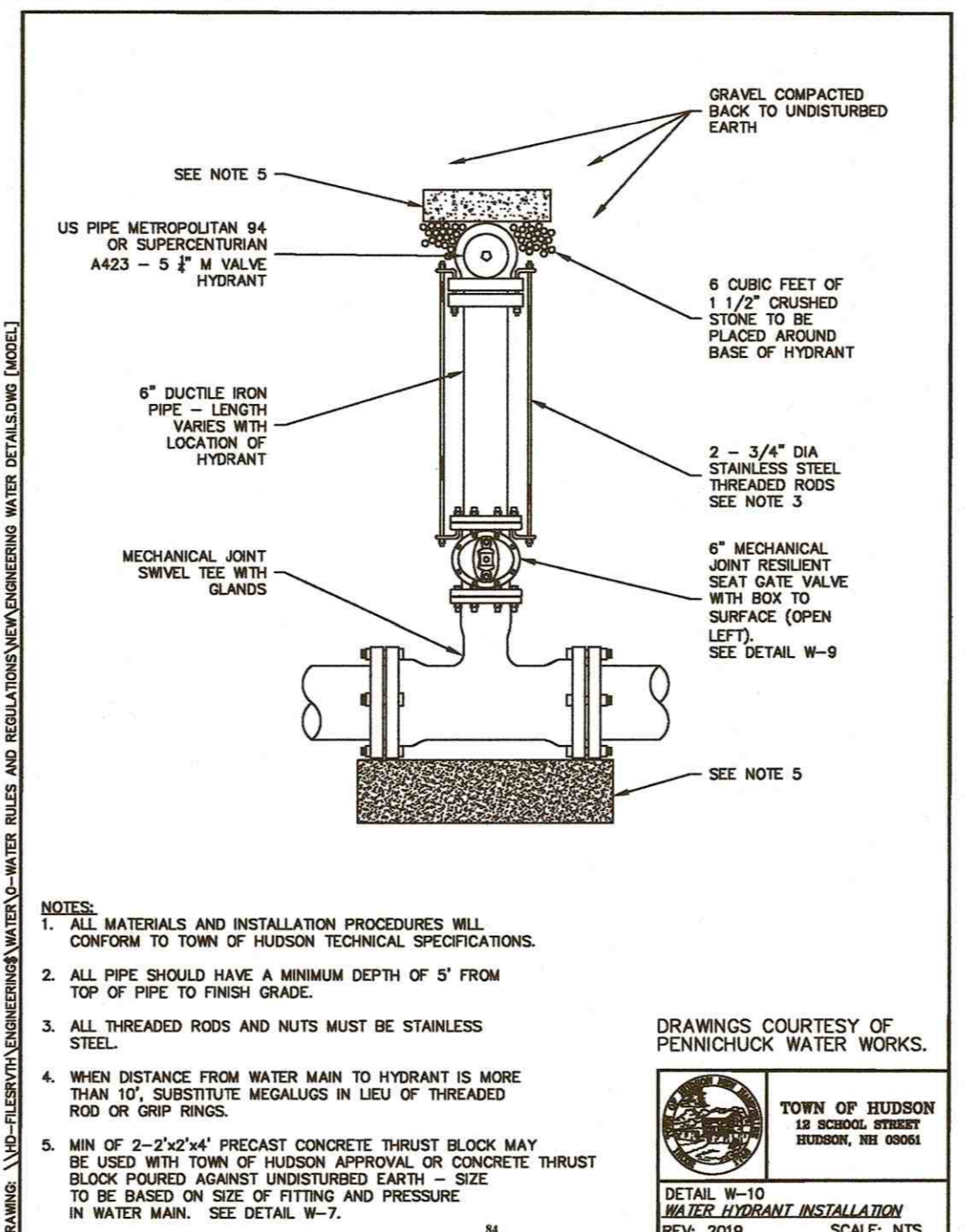
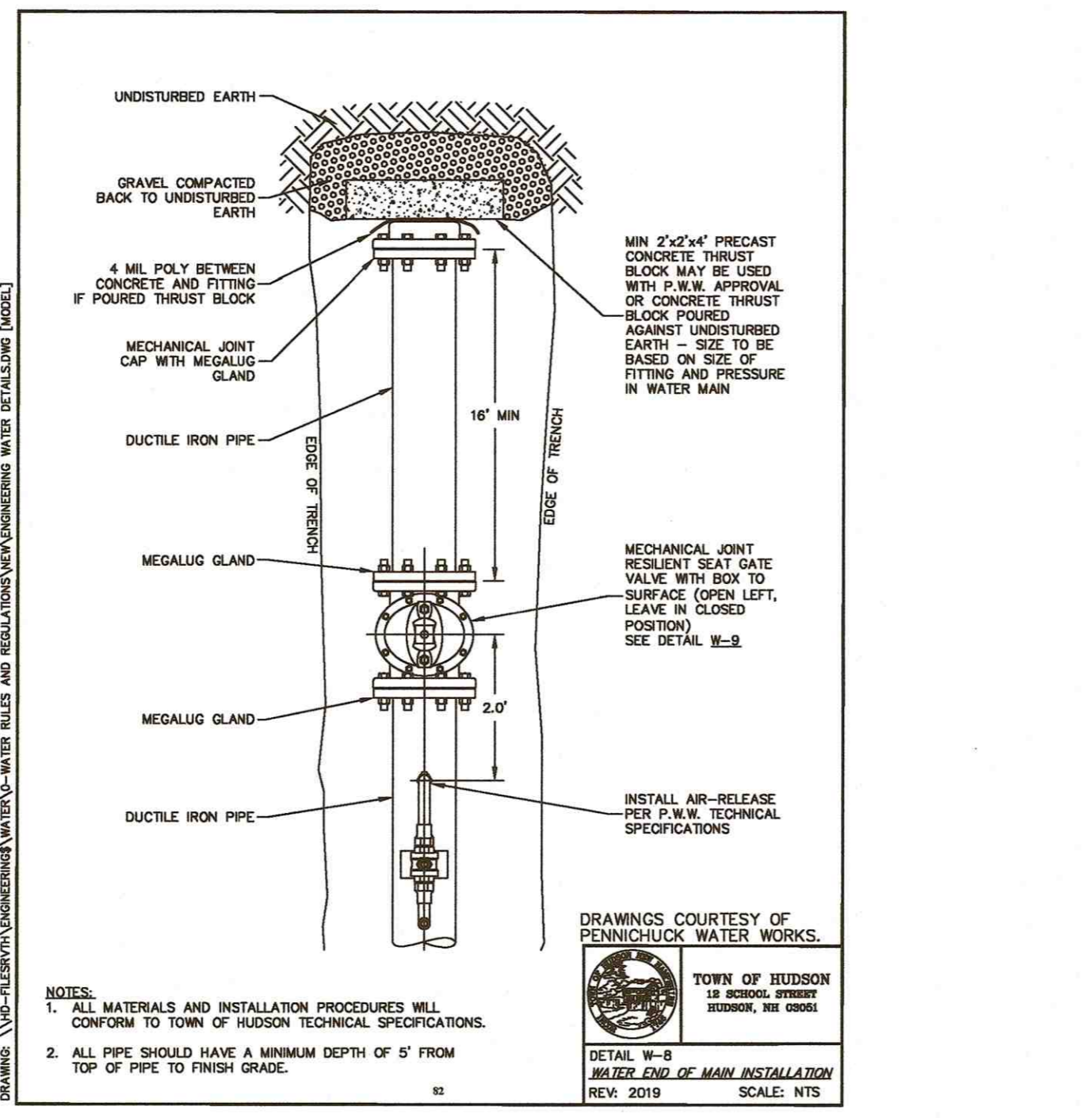
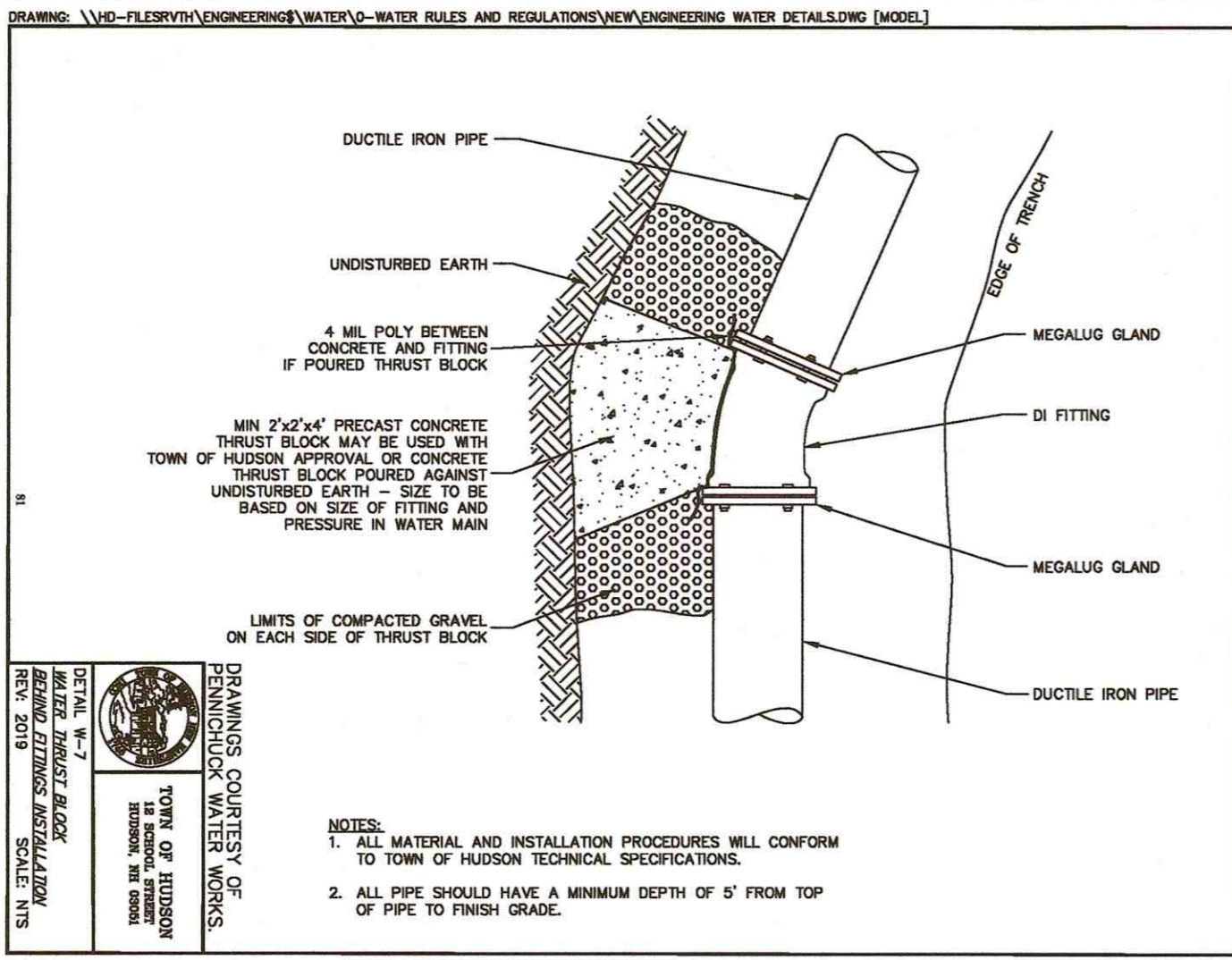
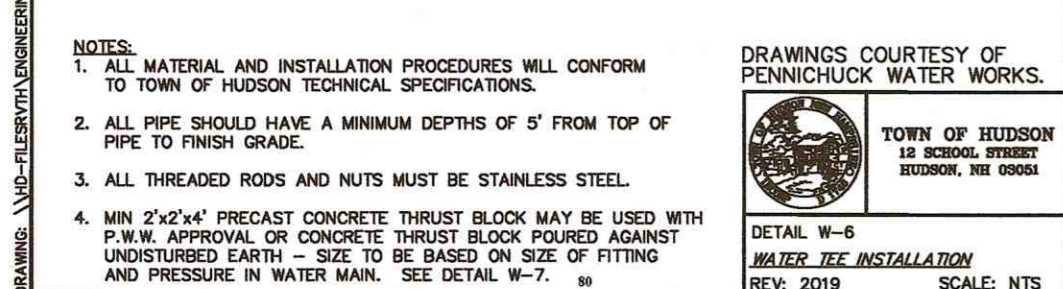
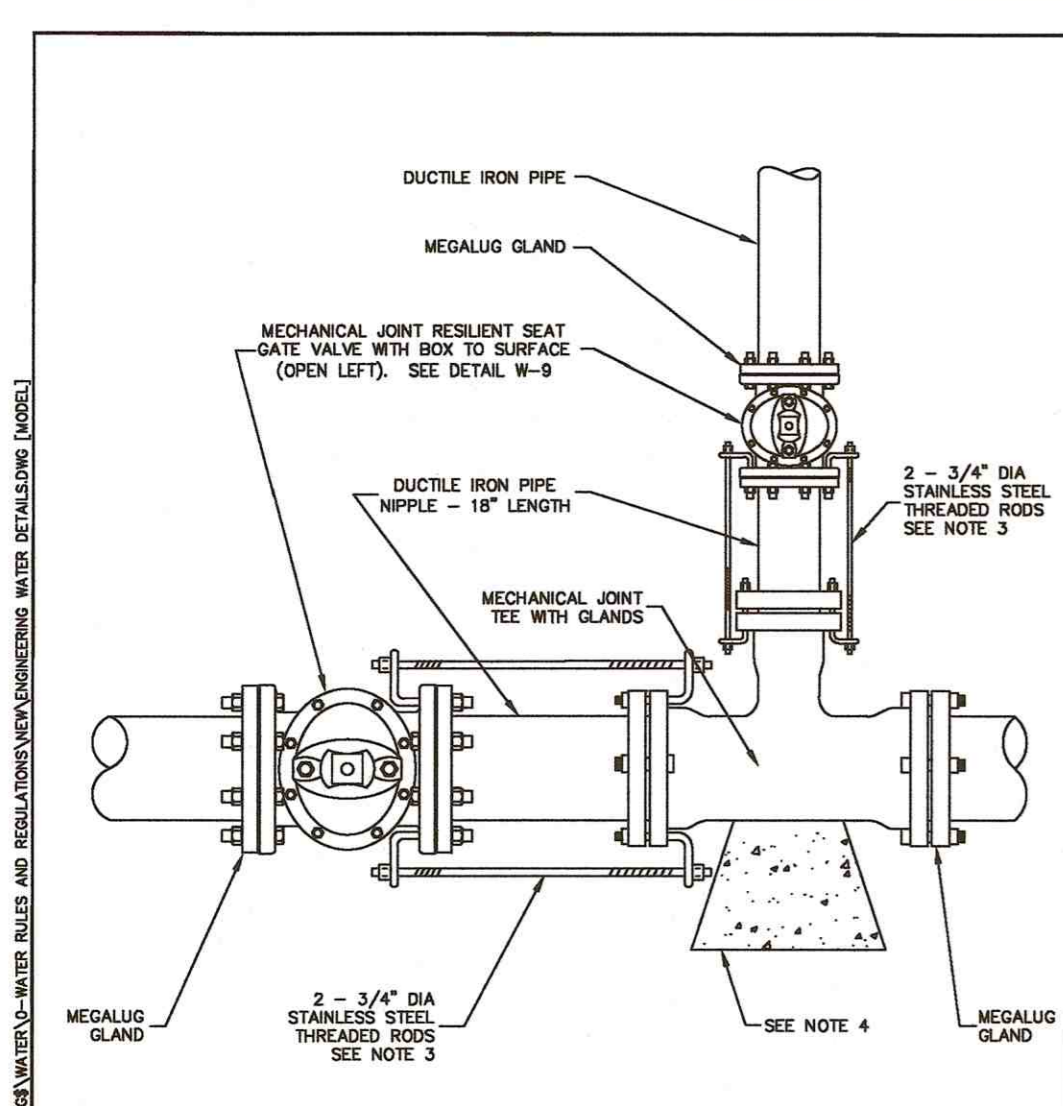
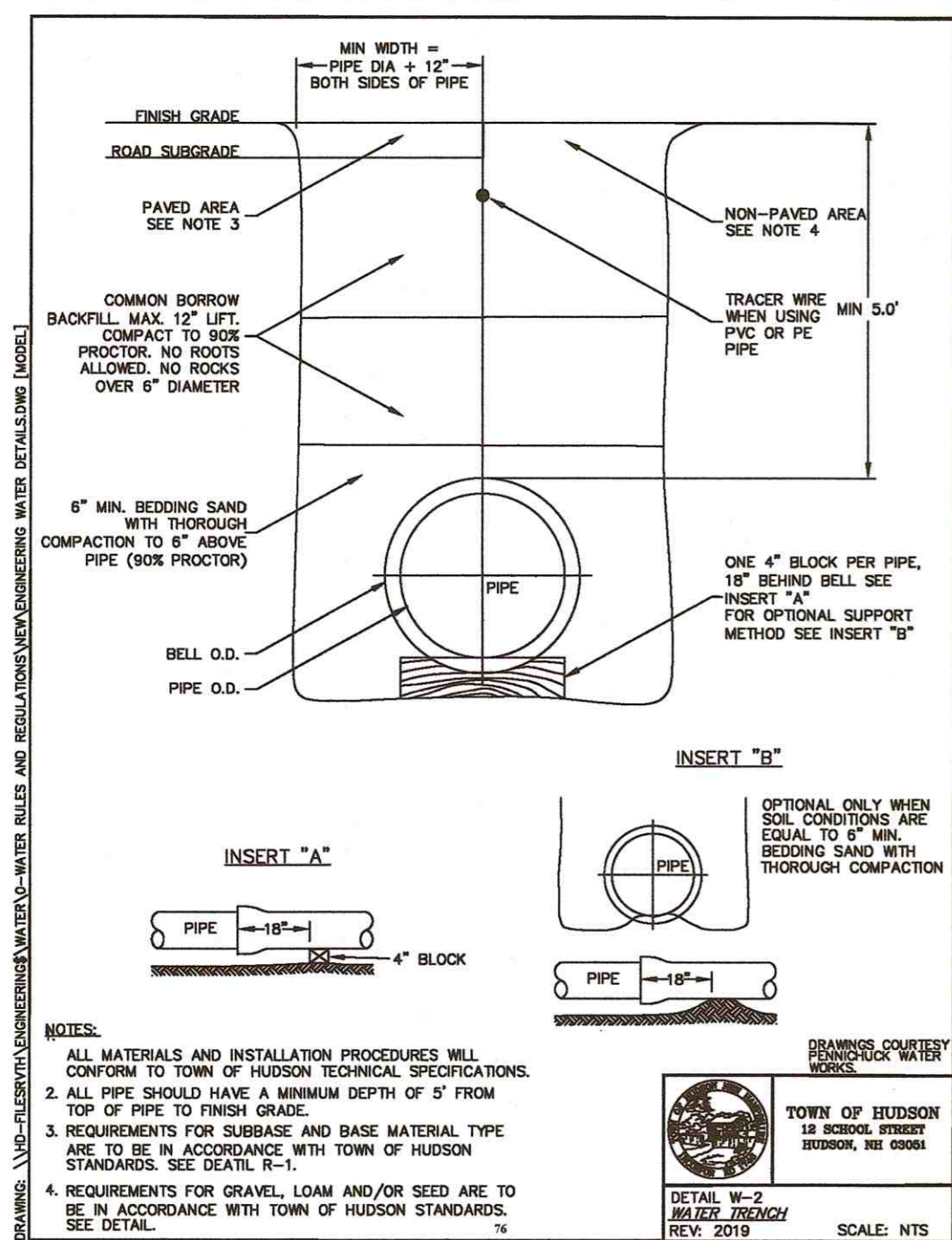
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NOTE
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR WATER MAIN INSTALLATION TO THE PROJECT ENGINEER AND TOWN ENGINEER PRIOR TO CONSTRUCTION.

- WATER NOTES:**
1. THE CONTRACTOR SHALL REFER TO THE TOWN OF HUDSON ENGINEERING DEPARTMENT TECHNICAL GUIDELINES AND TYPICAL DETAILS, LATEST EDITION, FOR WATER MAIN INSTALLATION REQUIREMENTS.
 2. THRUST BLOCKS AND MEGALUG RESTRAINTS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, AND FIRE HYDRANTS. SEE DETAIL.
 3. MINIMUM COVER ON ALL WATER LINES IS 5'-0".
 4. CONTRACTOR SHALL MAINTAIN A 5'-0" HORIZONTAL (UNLESS OTHERWISE NOTED) AND 12" VERTICAL SEPARATION BETWEEN WATER SERVICE AND UTILITIES OTHER THAN SANITARY SEWER.
 5. INSPECTIONS ON WATER SERVICE INSTALLATION DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR AND SHALL BE COORDINATED WITH TOWN OF HUDSON ENGINEERING DEPARTMENT, AND ALL INSPECTION FEES SHALL BE PAID BY THE CONTRACTOR.
 6. CONTRACTOR SHALL HAVE BACTERIOLOGICAL AND PRESSURE TESTING PERFORMED. CONTRACTOR SHALL GIVE THE HUDSON WATER UTILITY A COPY OF RESULTS. TOWN OF HUDSON ENGINEERING DEPARTMENT SHALL BE ON-SITE TO WITNESS TEST.
 7. ALL PIPE, VALVES, MISCELLANEOUS MATERIALS AND INSTALLATION SHALL CONFORM WITH TOWN OF HUDSON ENGINEERING DEPARTMENT SPECIFICATIONS.
 8. ALL FIRE HYDRANTS, VALVES, FITTINGS, PIPES, ETC. SHALL BE IN ACCORDANCE WITH TOWN OF HUDSON ENGINEERING DEPARTMENT REQUIREMENTS.
 9. METALLIC TAPE OR DETECTOR WIRE SHALL BE INSTALLED IN THE SAME TRENCH WITH ALL NONMETALLIC PIPE SUCH THAT THE PIPE MAY BE LOCATED WITH ELECTRONIC LOCATING EQUIPMENT. DETECTOR WIRE OR METALLIC TAPE SHALL BE INSTALLED APPROXIMATELY 12" TO 18" BELOW GRADE DIRECTLY ABOVE THE TOP OF THE PIPE. DETECTOR WIRE SHALL BE 14-GAUGE SOLID COPPER, SIMPLEX BVS001, OR EQUAL. METALLIC TAPE SHALL BE 2" MINIMUM METALIZED TAPE, GRIFFOLYN COMPANY, INC. TERRATAPE OR EQUAL.
 10. CONTRACTOR SHALL ENSURE ALL WATER VALVES ARE IN A FULLY-OPEN POSITION UPON COMPLETION OF PROJECT.
 11. CONTRACTOR SHALL COORDINATE ALL WATER INTERRUPTIONS WITH THE HUDSON WATER UTILITY AND AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DISRUPTIONS TO ADJACENT PROPERTIES AND FOR MAINTAINING SERVICE TO LOT 35, MAP 234 (FIRE AND DOMESTIC). TEMPORARY WATER CONNECTIONS MAY BE NEEDED.

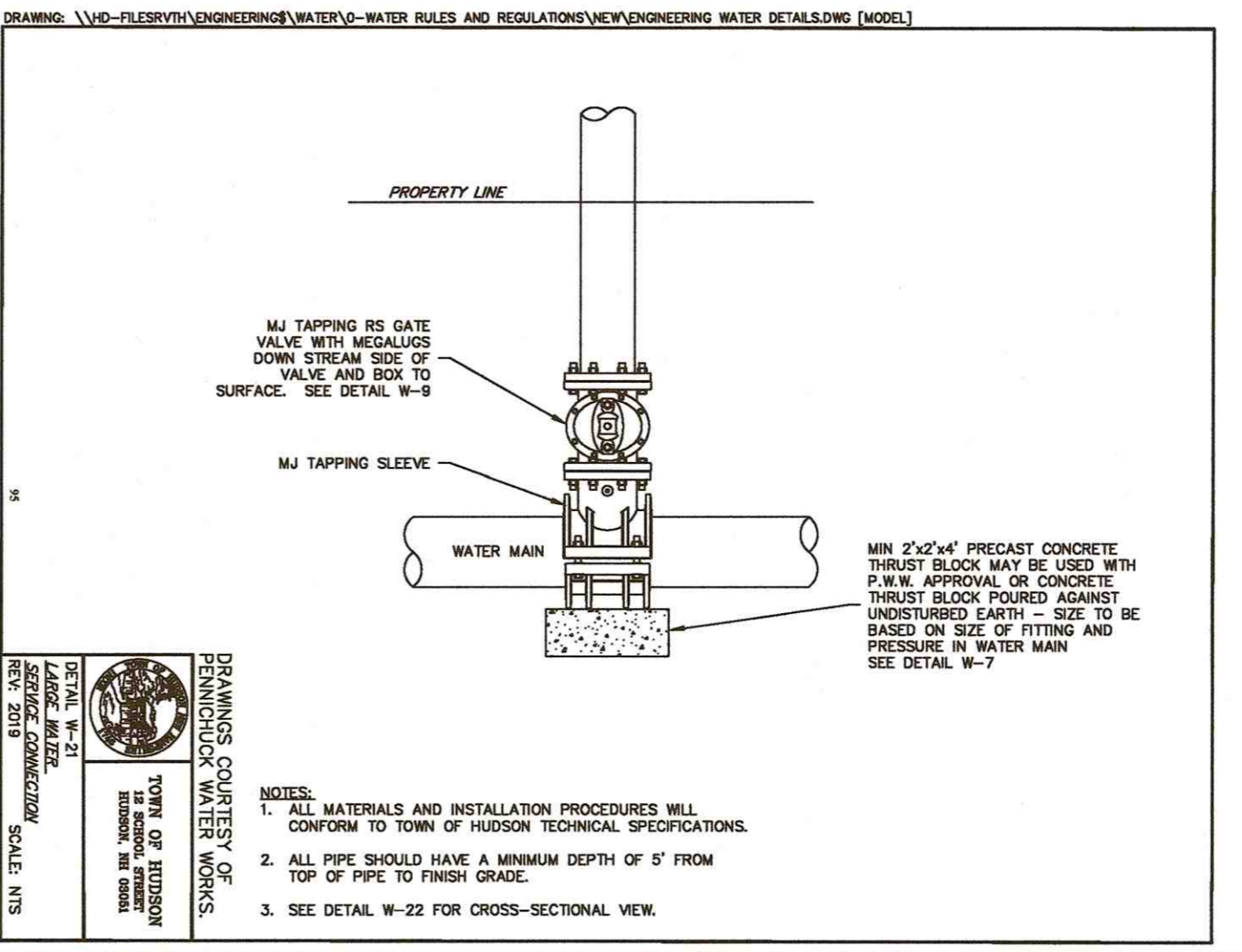
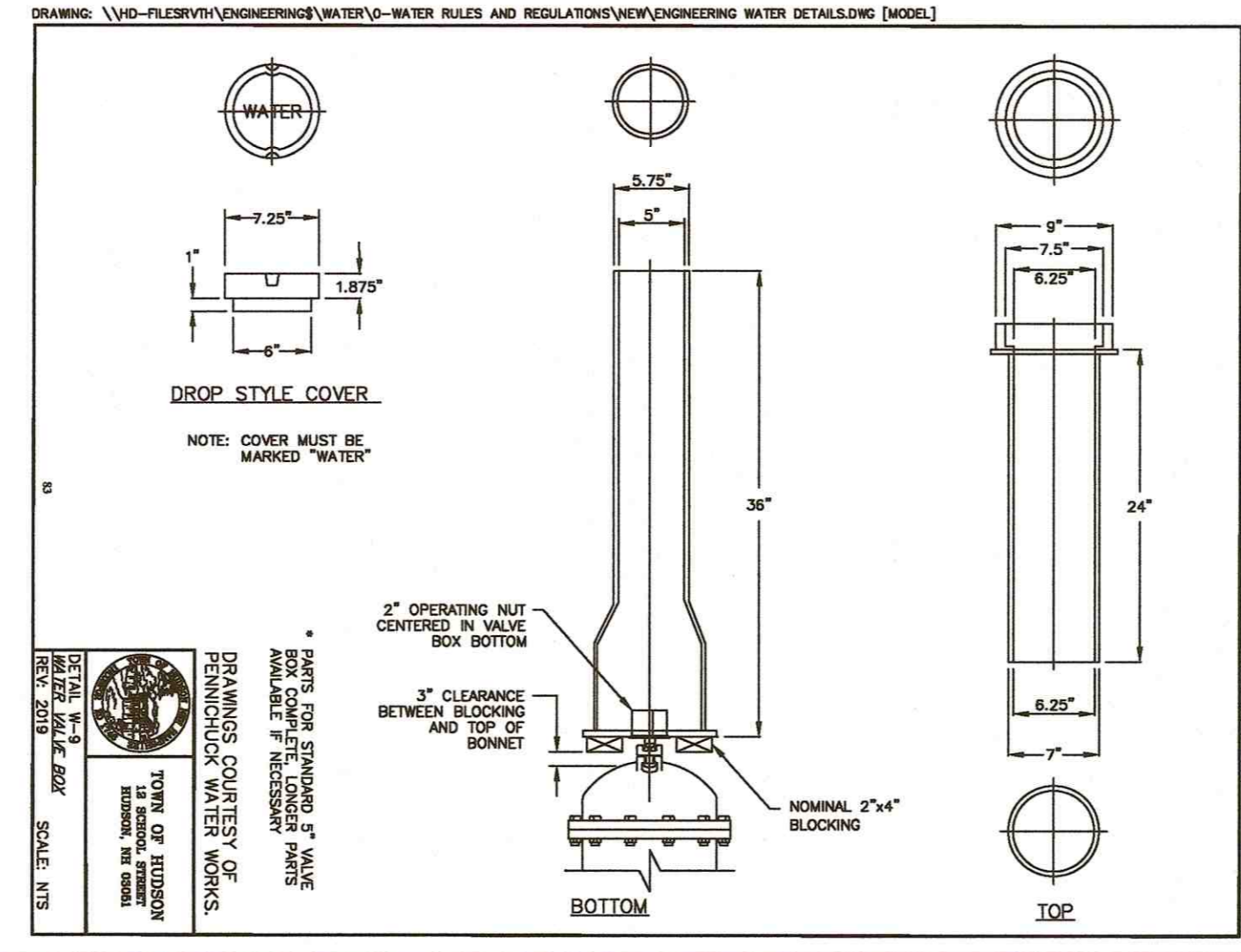
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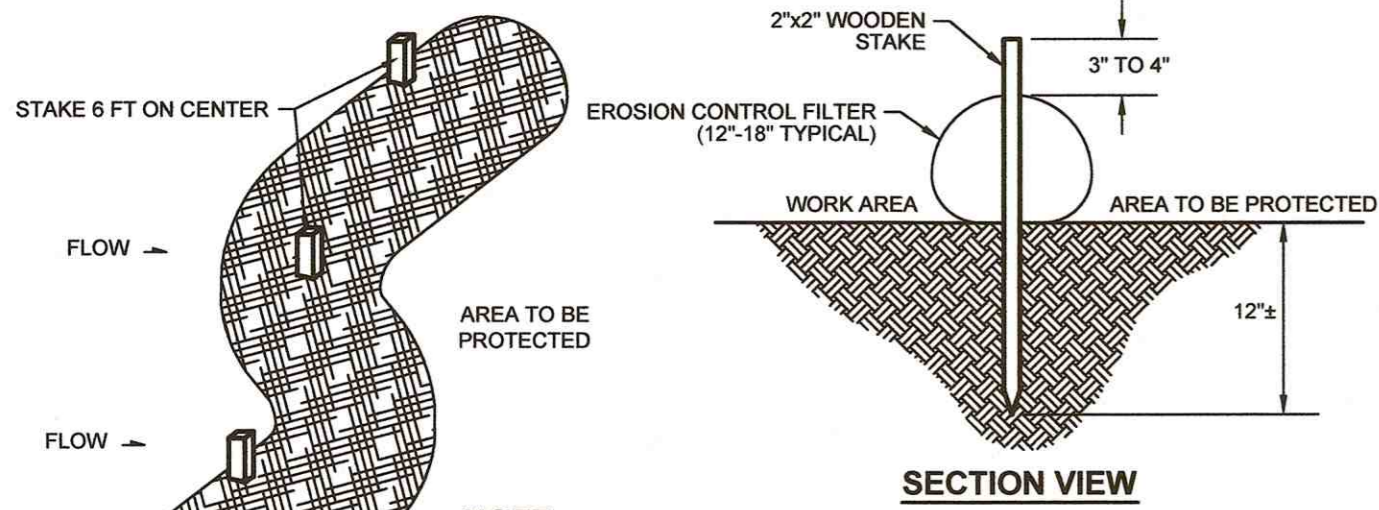
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- NOTE:**
- EROSION CONTROL FILTER SHALL BE FILTERMITT OR SILTSOXX OR APPROVED EQUAL.
 - EROSION CONTROL FILTER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - COMPOST TO BE REMOVED OR DISPOSED ON-SITE AS DETERMINED BY THE ENGINEER.

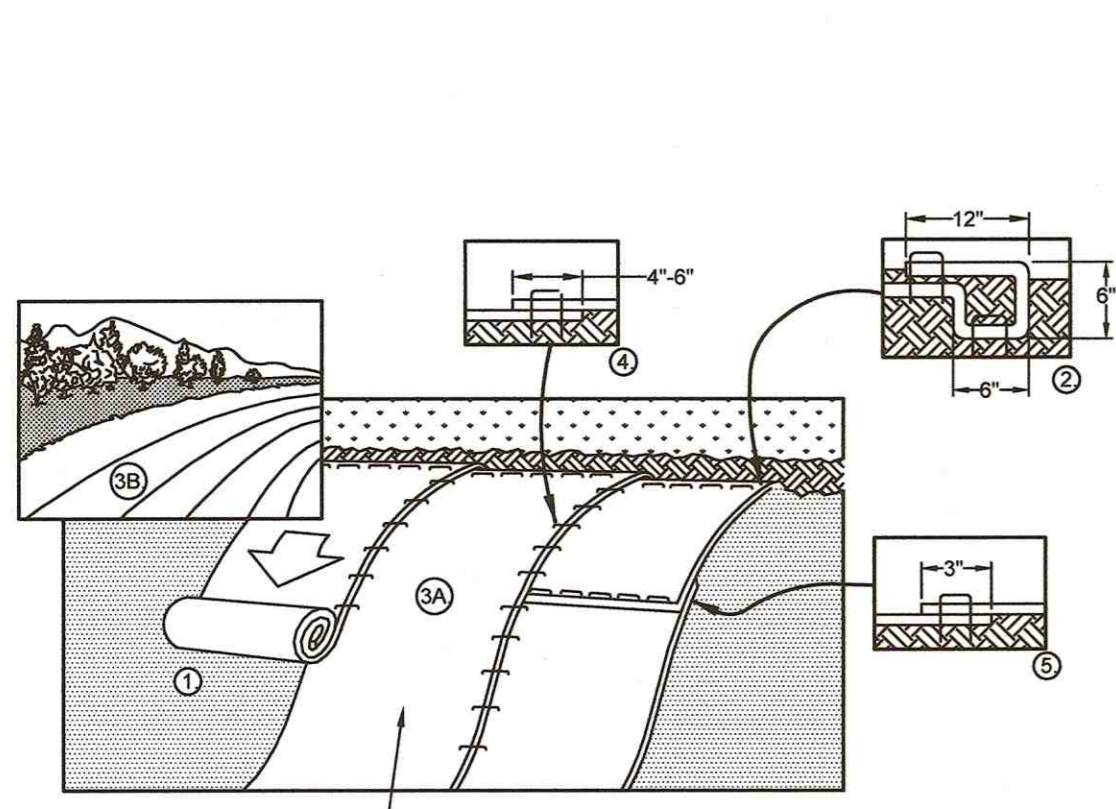
MAINTENANCE

- SILT SOCK BARRIER SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE SILT SOCK SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE BARRIER SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE BARRIER HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

CONSTRUCTION SPECIFICATIONS

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- 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.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

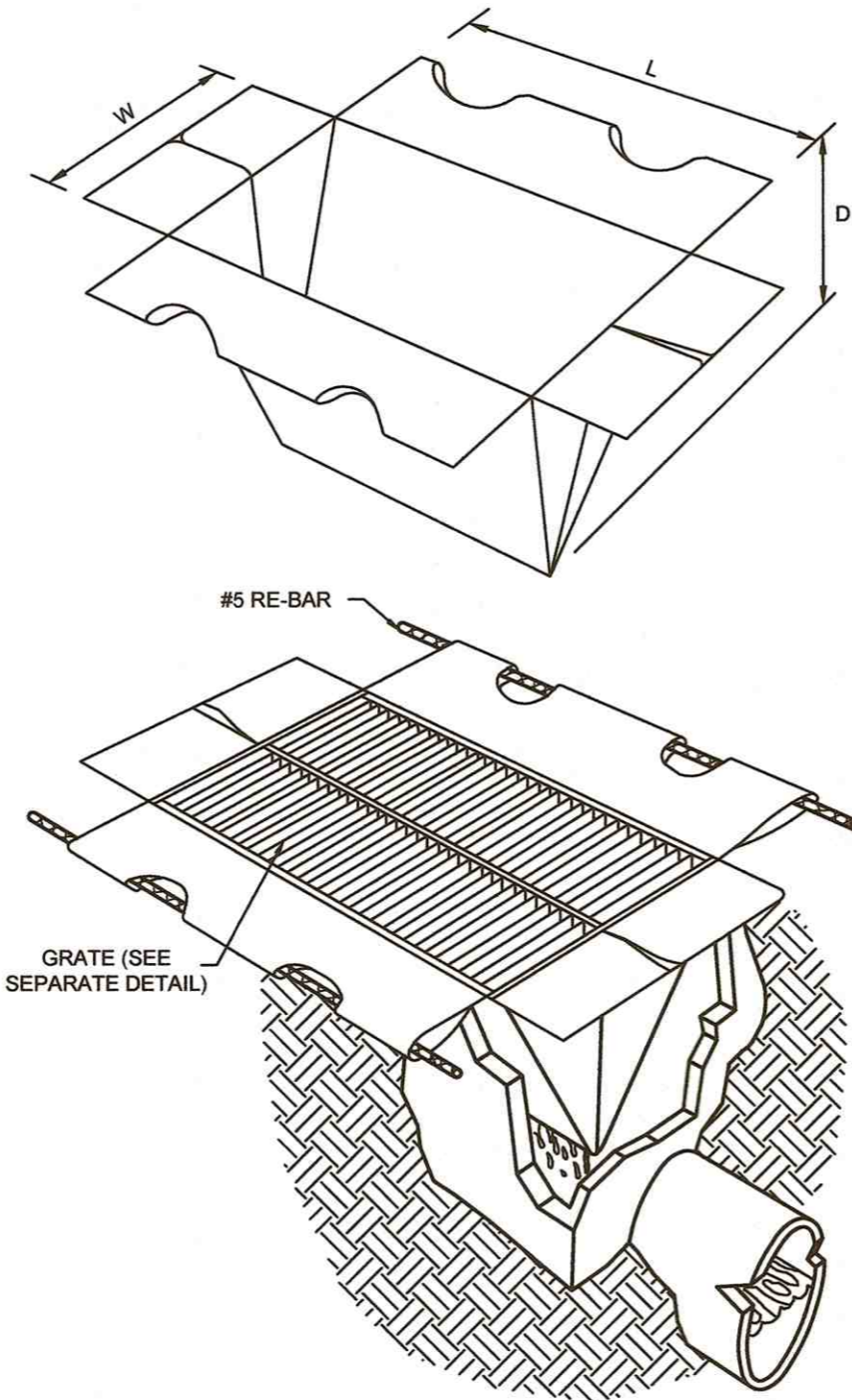
SILT SOCK DETAIL
NOT TO SCALE



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

STABILIZATION MATTING DETAIL
NOT TO SCALE



SILTSAK® DETAIL
NOT TO SCALE

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 SHALL HAVE A CERTIFIED AVERAGE 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 WORK AREA SHALL BE GRADED, SHAPED, AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE THE LIMITS OF THE WORK AREA. SILT FENCES, STRAW BALES AND/OR DETENTION BASINS WILL BE NECESSARY TO ACCOMPLISH THIS END.
- STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION IN ACCORDANCE WITH 'TEMPORARY STABILIZATION OF DISTURBED AREAS', AS OUTLINED IN NOTE NO. 4.
- TEMPORARY STABILIZATION OF DISTURBED AREAS:
 SEED BED PREPARATION: 10-10-10 FERTILIZATION TO BE SPREAD AT THE RATE OF 7 LBS PER 1,000 SF AND AGRICULTURAL LIMESTONE AT A RATE OF 90 LBS PER 1,000 SF AND INCORPORATED INTO THE SOIL. THE SOIL, FERTILIZER AND LIMESTONE SHALL BE TILLED TO PREPARE FOR SEEDING.

OR SILTSAK® HI-FLOW

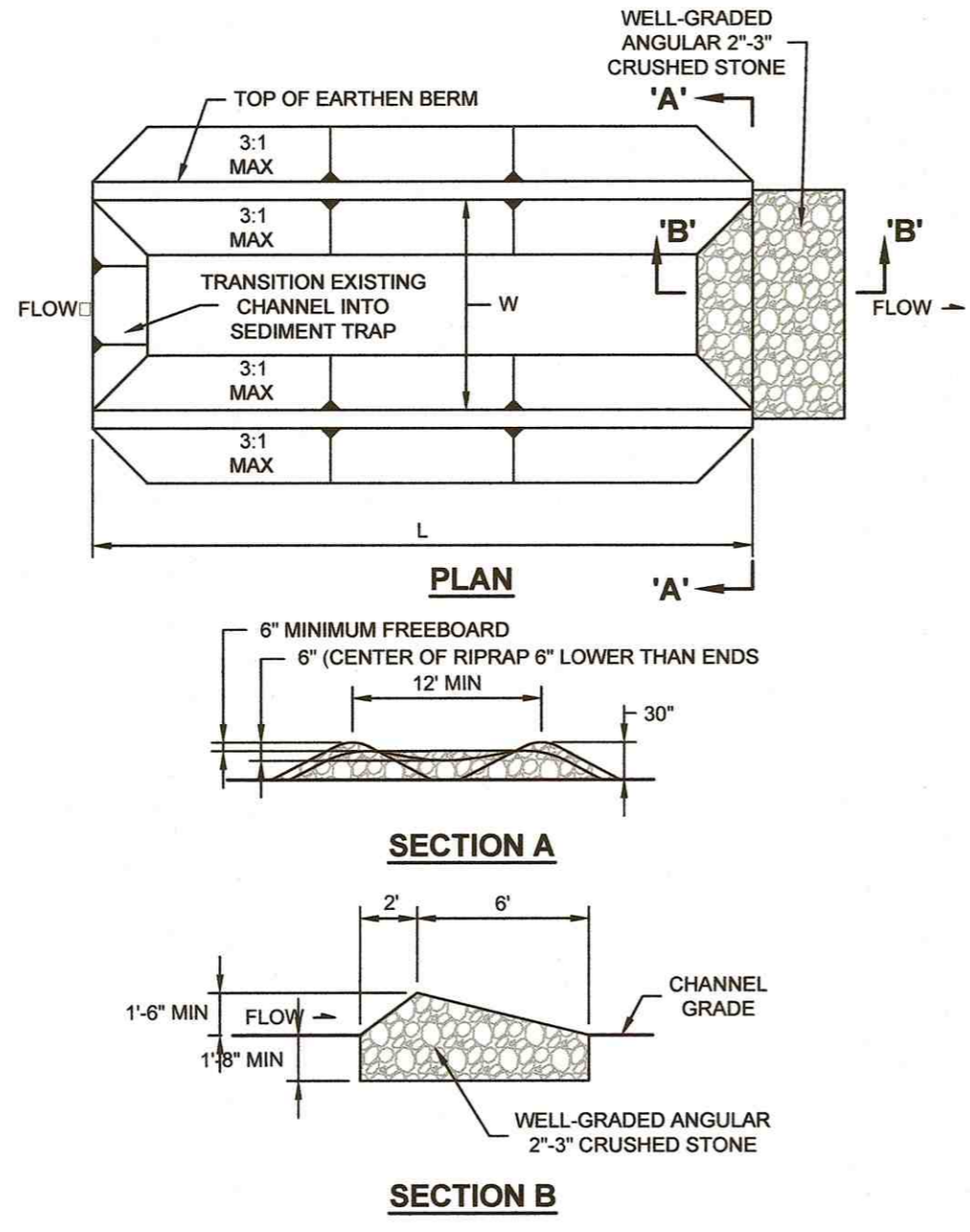
PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4632	265 LBS
GRAB ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING	ASTM D-4751	20 USIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/FT2
PERMITTIVITY	ASTM D-4491	1.5 SEC

SEDIMENT TRAP INSTALLATION NOTES:

- SEE PLAN VIEW FOR LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- SEDIMENT TRAPS SHALL BE SIZED TO PROVIDE A VOLUME OF 3,600 PER ACRE OF CONTRIBUTING DRAINAGE AREA.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADE/ LAND-DISTURBING ACTIVITIES.
- SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF WELL-GRADED ANGULAR 2-3" CRUSHED STONE.
- THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE OUTLET STRUCTURE.
- THE ENDS OF THE OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

SEDIMENT TRAP MAINTENANCE NOTES:

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN THE SEDIMENT DEPTH REACHES 1/2 THE HEIGHT OF THE OUTLET.
- SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE CONTRIBUTING DISTURBED AREA IS STABILIZED.
- WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDING AND MULCHED OR OTHERWISE STABILIZED.



SEDIMENT TRAP DETAIL
NOT TO SCALE

GENERAL NOTES

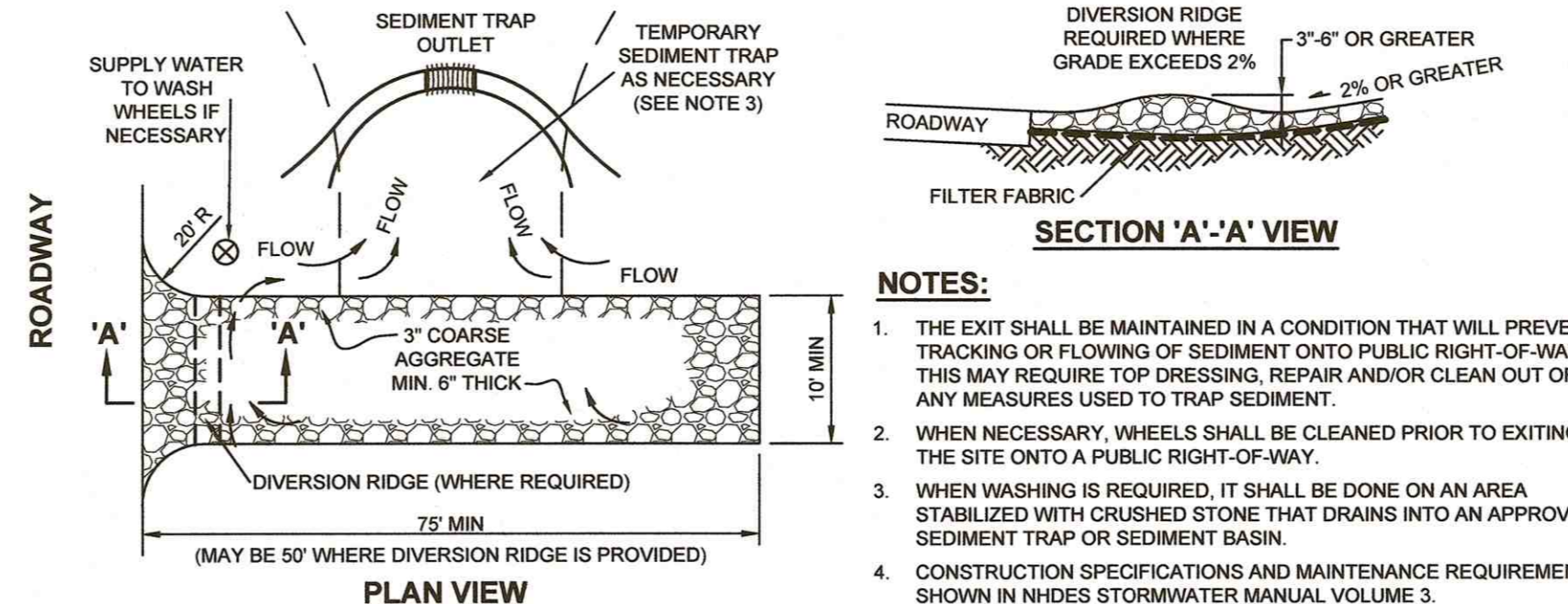
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS THEREOF IN NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUALS, VOLUME 1-3, LATEST EDITION.
 - THE WORK AREA SHALL BE GRADED, SHAPED, AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE THE LIMITS OF THE WORK AREA. SILT FENCES, STRAW BALES AND/OR DETENTION BASINS WILL BE NECESSARY TO ACCOMPLISH THIS END.
 - STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION IN ACCORDANCE WITH 'TEMPORARY STABILIZATION OF DISTURBED AREAS', AS OUTLINED IN NOTE NO. 4.
 - TEMPORARY STABILIZATION OF DISTURBED AREAS:
 SEED BED PREPARATION: 10-10-10 FERTILIZATION TO BE SPREAD AT THE RATE OF 7 LBS PER 1,000 SF AND AGRICULTURAL LIMESTONE AT A RATE OF 90 LBS PER 1,000 SF AND INCORPORATED INTO THE SOIL. THE SOIL, FERTILIZER AND LIMESTONE SHALL BE TILLED TO PREPARE FOR SEEDING.
- | SPECIES | RATE PER 1,000 SF | DEPTH | SEEDING DATES |
|------------------|-------------------|-------|----------------|
| WINTER RYE | 2.5 LBS | 1" | 08/15 TO 09/15 |
| OATS | 2.5 LBS | 1" | 04/15 TO 10/15 |
| ANNUAL RYE GRASS | 1.0 LBS | 0.25" | 08/15 TO 09/15 |
- B. MULCHING:** MULCH SHOULD BE USED ON HIGHLY ERODIBLE AREAS, AND WHERE CONSERVATION OF MOISTURE WILL FACILITATE PLANT ESTABLISHMENT AS FOLLOWS:
- | TYPE | RATE PER 1,000 SF | USE & COMMENTS |
|----------------------------------|---------------------------------------|--|
| STRAW | 70 TO 90 LBS | MAY BE USED WITH PLANTINGS, MUST BE ANCHORED TO BE USED ALONE |
| WOOD CHIPS OR BARK MULCH | 460 TO 920 LBS | USED WITH TREE AND SHRUB PLANTINGS |
| FIBROUS MATTING | AS RECOMMENDED BY MANUFACTURER | MUST BE BIODEGRADABLE. USE IN SLOPE AREAS AND AREAS DIFFICULT TO VEGETATE. |
| CRUSHED STONE 1/2" TO 1 1/2" DIA | SPREAD TO GREATER THAN 1/2" THICKNESS | USE IN SPECIFIC AREAS AS SHOWN ON PLAN OR AS NEEDED. |
- C. PERMANENT STABILIZATION OF DISTURBED AREAS:**
- ALL 'ADWAYS' SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
 - ALL CUT AND FILL SLOPES SHALL BE SEEDING/LOADED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- D. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.**
- E. AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED:**
- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- F. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.**
- G. SITE LOCATION:** 42° 43' 09" N LATITUDE, 71° 25' 53" W LONGITUDE (PER GOOGLE EARTH)
- H. TOTAL AREA OF DISTURBED SOILS:** 427,276 SF (FOR GREEN MEADOW DRIVE).
- I. REFERENCE IS MADE TO THE LATEST EDITION OF THE FEDERAL REGISTER (63 FR 7857), ENVIRONMENTAL PROTECTION AGENCY NPDES GENERAL PERMITS FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. FOR ADDITIONAL INFORMATION CONTACT (202) 564-5645 OR WWW.EPA.GOV/983RSTORMWTR.**
- J. THE ENTIRE CONTENTS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE RETAINED ON-SITE FOR THE DURATION OF THE CONTRACT AND BE MADE AVAILABLE TO LOCAL, STATE AND FEDERAL CODE ENFORCEMENT PERSONNEL.**
- K. THIS PROJECT SHALL BE MANAGED TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:63 AND AGR 3800 RELATIVE TO INVASIVE SPECIES, AND FUGITIVE DUST IS CONTROLLED IN ACCORDANCE WITH ENV-A 1000.**

WINTER CONDITION NOTES

- 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 3:1, 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.
- 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.
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

NHDES EROSION CONTROL INSPECTION NOTES

- AS THIS PROJECT WILL BE DISTURBING MORE THAN 5 ACRES AT ANY ONE TIME THE PERMIT FOR THIS PROJECT WILL INCLUDE THE FOLLOWING REQUIREMENTS:
- A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ('MONITOR') SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE ALTERATION OF TERRAIN PERMIT (PERMIT).
 - DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/2 INCH OR GREATER RAIN EVENT (E.G. 1/2 INCH OF PRECIPITATION OR MORE WITHIN A 2 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT.
 - THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485:1-17 AND ALL APPLICABLE DES PERMIT CONDITIONS.
 - WITHIN 24 HOURS OF EACH INSPECTION, THE MONITOR SHALL SUBMIT A REPORT TO DES VIA EMAIL TO EMILY.LUCAS@des.state.nh.gov.
 - PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES VIA EMAIL (SEE ABOVE).



- NOTES:**
- THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO EXITING THE SITE ONTO A PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 - CONSTRUCTION SPECIFICATIONS AND MAINTENANCE REQUIREMENTS SHOWN IN NHDES STORMWATER MANUAL VOLUME 3.

TEMPORARY GRAVEL CONSTRUCTION EXIT
NOT TO SCALE

SITE MAINTENANCE/INSPECTION PROGRAM

THE FOLLOWING PROVIDES AN ITEMIZATION OF SPECIFIC SITE MAINTENANCE PRACTICES THAT WILL BE EMPLOYED ON THE SITE TO MINIMIZE POLLUTANT GENERATION AND TRANSPORT FROM THE SITE. THE SITE MAINTENANCE PROGRAM INCLUDES ROUTINE INSPECTIONS, PREVENTATIVE MAINTENANCE AND 'GOOD HOUSEKEEPING' PRACTICES.

ROUTINE INSPECTIONS

- THE CONTRACTOR SHALL INSPECT ALL CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN TWELVE (12) HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT GREATER THAN 0.5 INCHES. THE INSPECTIONS WILL VERIFY THAT THE STRUCTURAL BMPs DESCRIBED IN THE PLANS ARE IN GOOD CONDITION AND ARE MINIMIZING EROSION. A MAINTENANCE INSPECTION REPORT WILL BE MADE WITH EACH INSPECTION. COMPLETED INSPECTION FORMS SHALL BE KEPT ON-SITE FOR THE DURATION OF THE PROJECT. FOLLOWING CONSTRUCTION, THE COMPLETED FORMS SHALL BE RETAINED AT THE CONTRACTOR'S OFFICE FOR A MINIMUM OF ONE YEAR.

PREVENTATIVE MAINTENANCE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT CONTROLS THROUGHOUT THE DURATION OF THIS CONTRACT. MAINTENANCE PRACTICES SHALL INCLUDE, BUT ARE NOT LIMITED TO:
 - CLEANING OF CATCH BASINS TWICE PER YEAR OR MORE FREQUENTLY AS DICTATED BY QUARTERLY INSPECTIONS.
 - CLEANING OF SEDIMENT AND DEBRIS FROM STORMWATER MANAGEMENT AREA FOREBAY TWICE PER YEAR OR MORE FREQUENTLY AS DICTATED BY MONTHLY INSPECTIONS.
 - IMPLEMENTATION OF OTHER MAINTENANCE OR REPAIR ACTIVITIES AS DEEMED NECESSARY BASED UPON WEEKLY INSPECTIONS.
 - REMOVAL OF BUILT UP SEDIMENT ALONG SILT FENCES AND/OR HAY BALE BARRIERS.
 - REMOVAL OF BUILT UP SEDIMENT IN BOTH TEMPORARY AND PERMANENT CONTROLS SUCH AS GRASS SWALES, SEDIMENT FOREBAYS AND RECHARGE/DETENTION BASINS.
 - RECONSTRUCTING THE TEMPORARY GRAVEL CONSTRUCTION EXIT IF NOT WORKING PROPERLY.
 - TREATMENT OF NON-STORM WATER DISCHARGES SUCH AS WATER FROM WATER LINE FLUSHINGS OR GROUNDWATER FROM DEWATERING EXCAVATIONS. SUCH FLOWS SHOULD BE DIRECTED TO A TEMPORARY SEDIMENTATION BASIN OR STORMWATER MANAGEMENT AREA.
 - SWEEP PARKING LOTS AND DRIVES REGULARLY TO MINIMIZE SEDIMENT ACCUMULATION. FREQUENCY WILL VARY SEASONALLY ACCORDING TO SEDIMENT ACCUMULATION ON PAVE SURFACES (E.G., MORE FREQUENT SWEEPING DURING THE WINTER AND SPRING).

GOOD HOUSEKEEPING PRACTICES

- THE CONTRACTOR SHALL EMPLOY MEASURES AND PRACTICES TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS TO STORM AND WATER RUNOFF. THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE HANDLING, USE AND DISPOSAL OF MATERIALS SUCH AS PETROLEUM PRODUCTS, FERTILIZERS AND PAINTS TO ENSURE THAT THE RISK ASSOCIATED WITH THE USE OF THESE PRODUCTS IS MINIMIZED. THE FOLLOWING 'GOOD HOUSEKEEPING' PRACTICES SHALL BE FOLLOWED DURING CONSTRUCTION OF THE PROJECT:
 - AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 - ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THEIR MANUFACTURER'S LABELS.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
 - THE CONTRACTOR SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.

SPILL PREVENTION AND CLEANUP PRACTICES

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIAL WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

No.	DATE	REVISION	BY
1	07/13/20	ADDRESS TOWN COMMENTS	JNP

DETAIL SHEETS - EROSION CONTROL
 MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
 PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100
 RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070

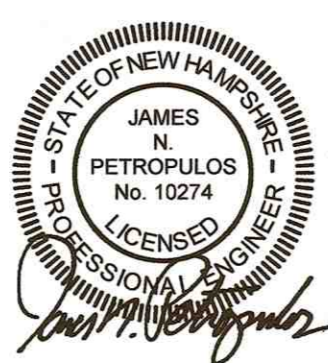
SCALE AS SHOWN

21 APRIL 2020

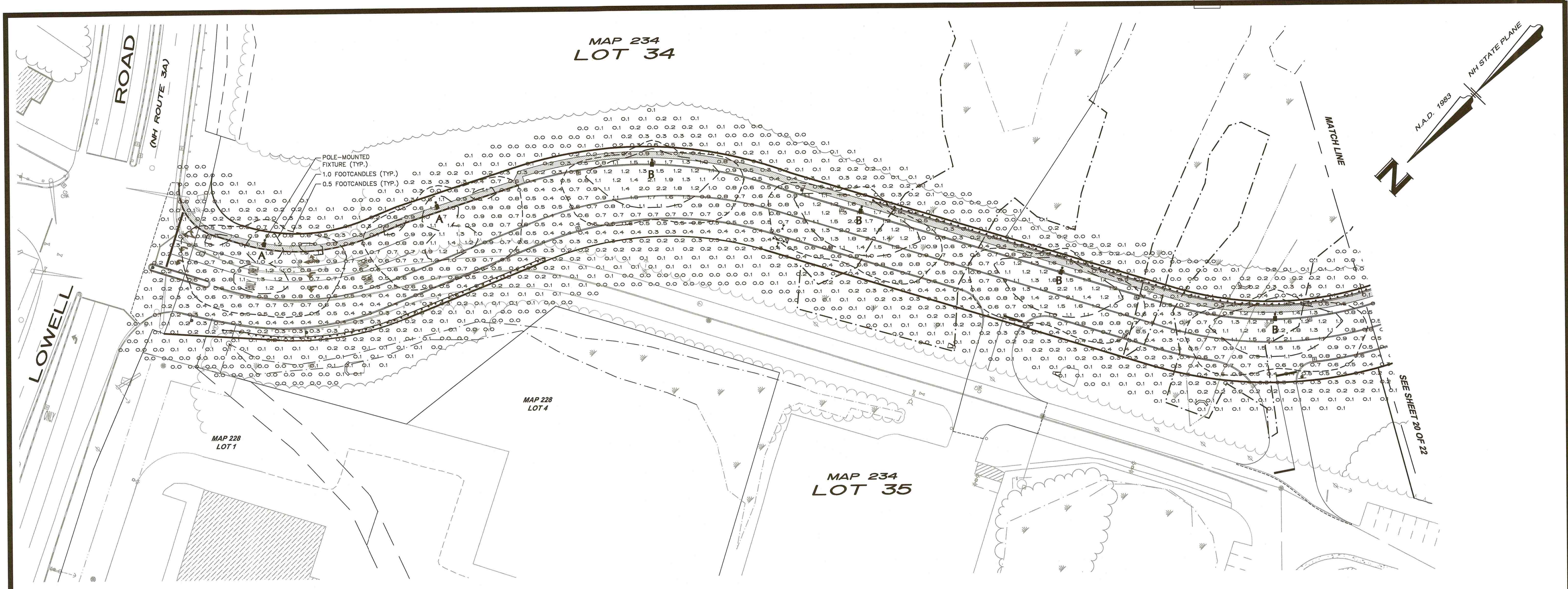
HSI Hayner/Swanson, Inc.
 Civil Engineers/Land Surveyors
 3 Congress Street Nashua, NH 03062 (603) 883-2057
 131 Middlesex Turnpike Burlington, MA 01803 (781) 203-1501
 www.hayner-swanson.com

FIELD BOOK: ---	DRAWING NAME: 3867L-DET1	3867L	18 OF 22
DRAWING LOC. J:\3000\3867\DWG\3867L SITE		File Number	Sheet

APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____
 CHAIRMAN: _____ SIGNATURE DATE: _____
 SECRETARY: _____ 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.



EPA
 THE CONTRACTOR SHALL FILE THE EPA NOTICE OF INTENT (NOI) FORM AT LEAST 14 DAYS PRIOR TO CONSTRUCTION



SITE LIGHTING SCHEDULE

SYMBOL	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	COLOR TEMPERATURE	OPTICS	LUMENS	LLF	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.	REMARKS
■	A	2	COOPER LIGHTING	GALLEON LED	POLE-MOUNTED FIXTURE COLOR: BLACK	30'-0"	113W LED	4000K	TYPE IV WIDE	12,372	0.90	GLEON-AF-02-LED-VOLTS-T4W-BK	HAPCO	ROUND TAPERED STEEL POLE COLOR: BLACK	30'-0"	RTS-30-B-68-4-BA-D190-VDA	POLE TO BE MOUNTED ON FLUSH CONCRETE BASE
■	B	17	COOPER LIGHTING	GALLEON LED	POLE-MOUNTED FIXTURE COLOR: BLACK	30'-0"	113W LED	4000K	TYPE III ROADWAY	12,739	0.90	GLEON-AF-02-LED-VOLTS-T3R-BK	HAPCO	ROUND TAPERED STEEL POLE COLOR: BLACK	30'-0"	RTS-30-B-68-4-BA-D190-VDA	POLE TO BE MOUNTED ON FLUSH CONCRETE BASE

NOTES:
 1. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING VOLTAGES.
 2. ALL FIXTURES TO RECEIVE FACTORY-INSTALLED VIBRATION DAMPENERS.
 3. FIXTURE POLES TO BE EQUIPPED WITH BREAKAWAY ANCHOR BOLTS.

STATISTICS

DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN.
GREEN MEADOW ROAD	1.0fc	2.3fc	0.3fc	7.7:1	3.3:1

NOTE: LIGHT PHOTOMETRY AND CALCULATIONS FOR ADJACENT STREET AND SITE LIGHTING ARE NOT INCLUDED IN THE ABOVE STATISTICS.

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

CHAIRMAN: _____ SIGNATURE DATE: _____

SECRETARY: _____ SIGNATURE DATE: _____

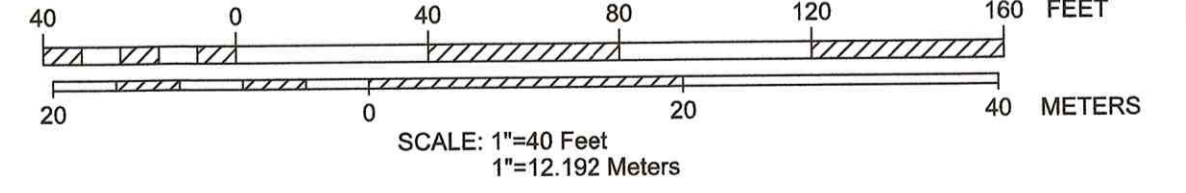
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

No.	DATE	REVISION	BY
1	07/13/20	ADDRESS TOWN COMMENTS	JNP

PHOTOMETRIC SITE LIGHTING PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE

PREPARED FOR: **LANGAN**
 888 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 824-9100

RECORD OWNERS:
GREENMEADOW GOLF CLUB, INC.,
THOMAS P. FRIEL & PHILIP J. FRIEL, III
 55 MARSH ROAD HUDSON, NEW HAMPSHIRE 03051 (603) 882-8893
and 267 LOWELL RD HUDSON, LLC
 c/o RAM MNGT CO., LLC 200 US RTE 1, STE 200 SCARBOROUGH, ME 04070



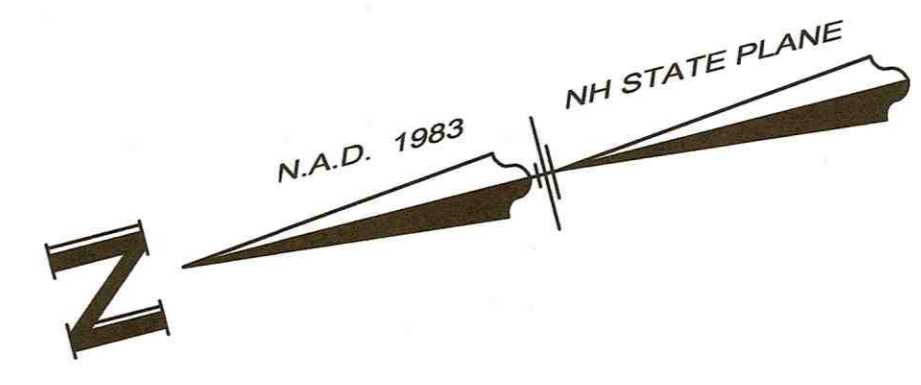
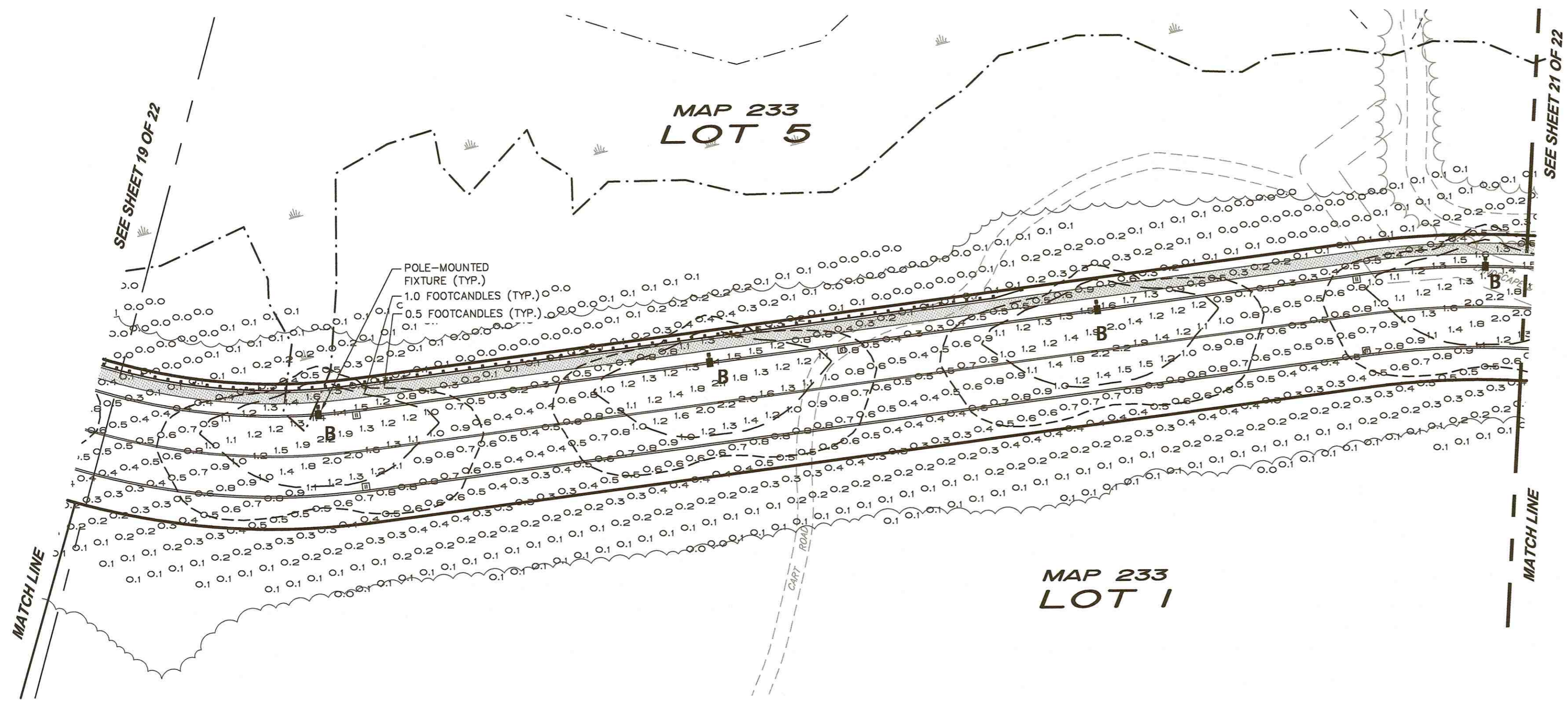
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Langan Engineering and
 Environmental Services, Inc.
 888 Boylston Street, Ste 510
 Boston, MA 02199

T: 617.824.9100 F: 617.824.9101 www.langan.com

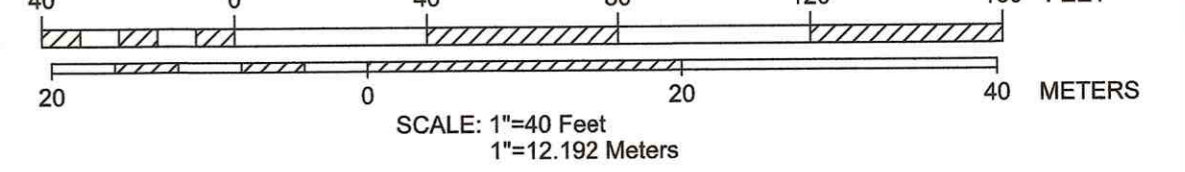
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DRAWING LOC:	File Number	Sheet



REFER TO SHEET SL19 FOR SITE LIGHTING SCHEDULE

No.	DATE	REVISION	BY
1	07/13/20	ADDRESS TOWN COMMENTS	JNP

PHOTOMETRIC SITE LIGHTING PLAN
 (MAP 234, LOTS 5, 34 & 35 AND MAP 239, LOT 1)
HUDSON LOGISTICS CENTER
 LOWELL AND STEELE ROADS
 HUDSON, NEW HAMPSHIRE
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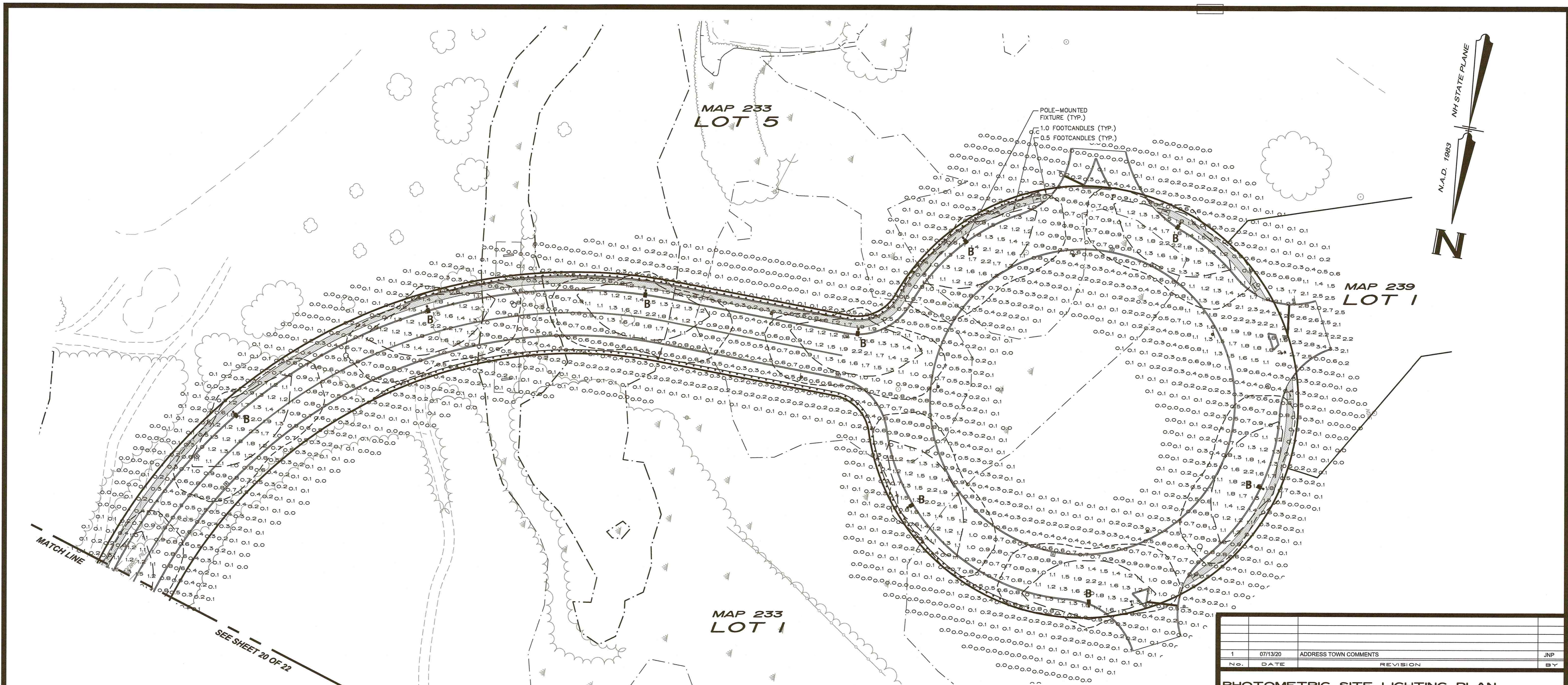
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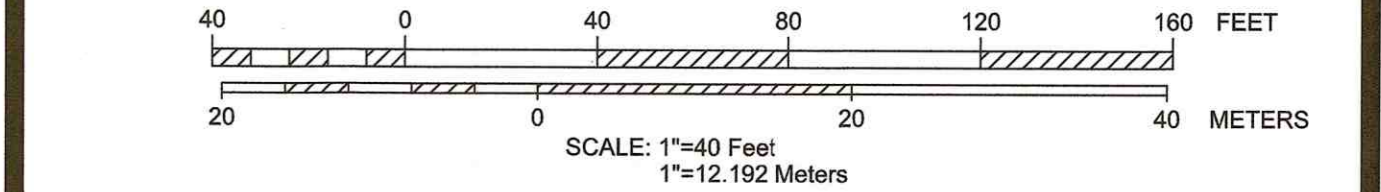
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LIGHTING NOTES:

GENERAL

- POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP / DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.
- LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.
- ALL LIGHTING IS TO BE FULL CUT-OFF.
- COMPLIANCE
 - ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
 - LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.
- COORDINATION
 - CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
 - REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
 - CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
 - INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
 - CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

POLES AND FOOTINGS

- PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
- POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.
- ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES

- CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

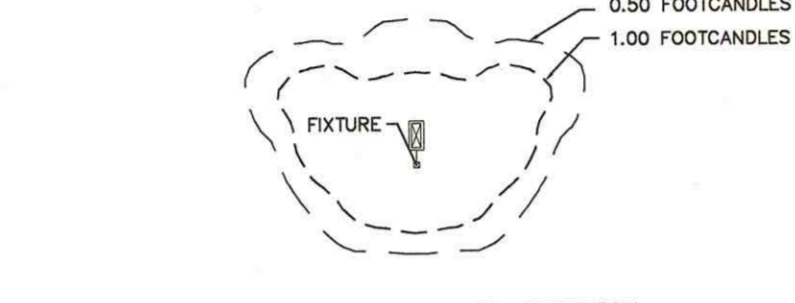
ADJUSTMENT AND INSPECTION

- CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

REQUIREMENTS FOR ALTERNATES

- ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
 - ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR.
 - COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOSPOT/CANDLE, THE SYSTEM'S PERFORMANCE.
 - A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS, IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
 - POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
 - A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.

PHOTOMETRIC LIGHTING TEMPLATE



NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

DESCRIPTION

The Galeon™ LED luminaire delivers exceptional performance in a highly available, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP68 rated and ULULC Listed for wet locations.

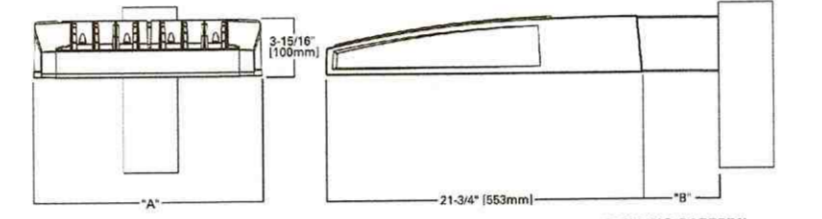
SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-weld, die-cast aluminum end cap encloses housing and die-cast aluminum heat sink. A unique, patent pending interlocking housing and heat sink provides sealability with superior structural rigidity. 30 vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP68 rated.

Optics
Patented, high-efficiency injection molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 270K) CCT 70 CRI. Optional 5000K, 5500K and 6000K CCT.

Mounting
STANDARD ARM MOUNT
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 80° and 120° apart, the EA standard arm may be required. Refer to the arm mounting requirement table.

DIMENSIONS



DRILLING PATTERN



ENERGY DATA

Number of Light Squares	Wattage	Optical Area Length	Weight with Arm (lbs.)	EPA lum. efficacy (lm/W)
1-4	13.5W (17.8lm)	7"	3.3	0.96
5-8	21.5W (28.1lm)	10"	4.4	1.00
7-8	27.5W (35.9lm)	12"	5.4	1.07
8-10	33.5W (43.7lm)	15"	6.3	1.12

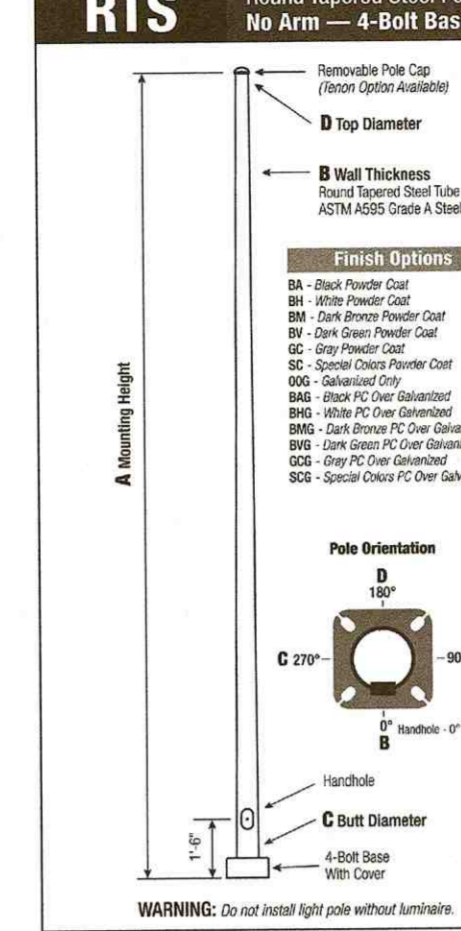
McGraw-Hill

Category #	Type
Project	Date
Comments	
Prepared by	

GALEON LED

1-10 Light Squares
AREA/SITE LUMINAIRE
WaveLinx

RTS Round Tapered Steel Pole No Arm - 4 Bolt Base



ASSEMBLY	HEIGHT	GAUGE	BUTT DIA.	BASE STYLE	FINISH	MOUNTING OPTIONS	ELECTRICAL BOX	ACCESSORIES/OPTIONS
RTS	30	B	68	4				

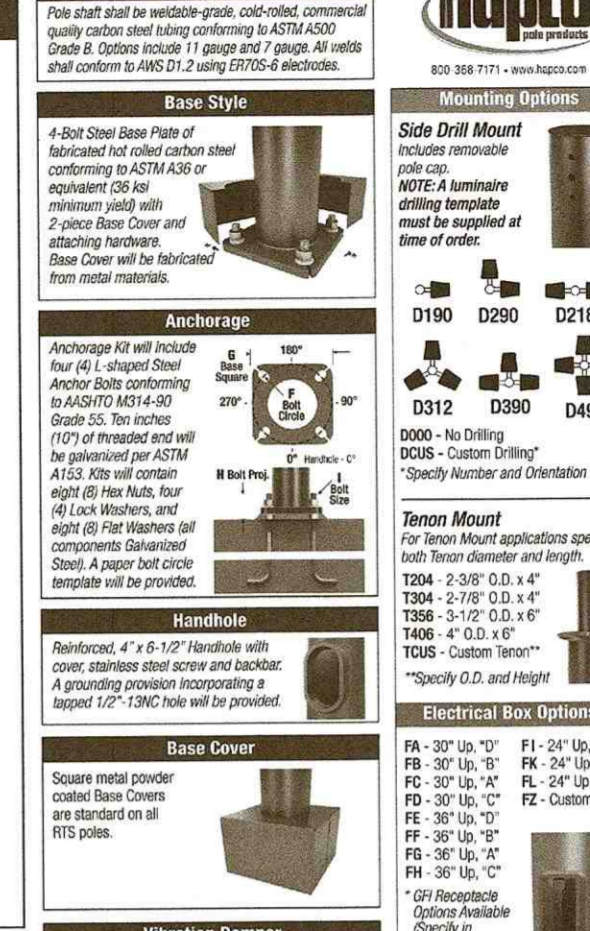
CERTIFICATION DATA
30 Vibration Rated
Design Light Construction "Qualified"
Dark Sky Approved (3000K CCT and warmer only)
IP68 Rated
ISO 9001
LAMP: LM81 Luminaire Consultant
UL/ULC Wet Location Listed

ENERGY DATA
EPA LED Driver
3-3 Power Factor
30% Total Harmonic Distortion
1000/270V Voltage
347V, 480V 60Hz
40°C Max. Temperature
40°C Max. Temperature
90°C Max. Temperature
90°C Max. Temperature
90°C Max. Temperature (90°C Max. Temperature DIA Option)

CUSTOMER NAME: _____ LOCATION: _____ QUANTITY: _____

NOTES: _____

hupco



ASSEMBLY	HEIGHT	GAUGE	BUTT DIA.	BASE STYLE	FINISH	MOUNTING OPTIONS	ELECTRICAL BOX	ACCESSORIES/OPTIONS
RTS	30	B	68	4				

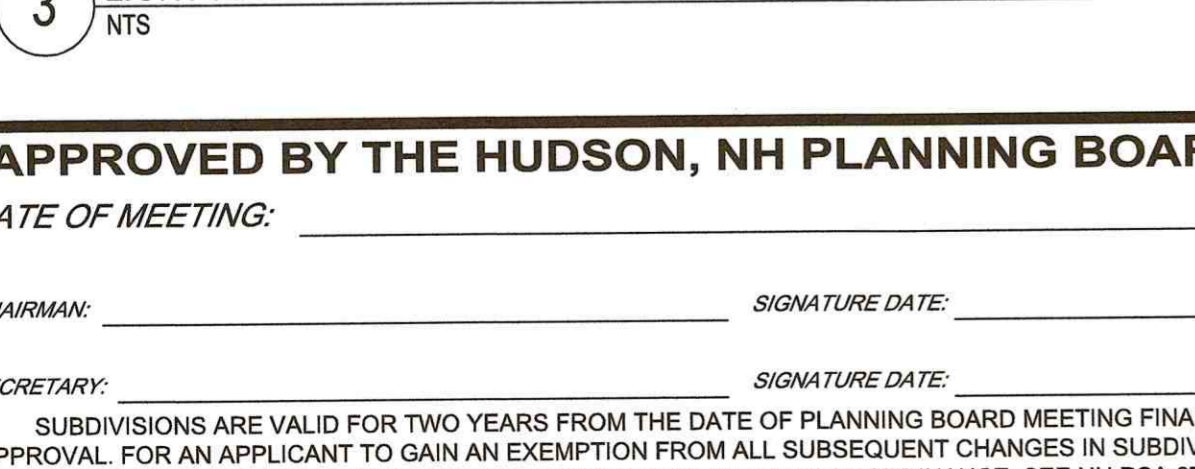
CERTIFICATION DATA
30 Vibration Rated
Design Light Construction "Qualified"
Dark Sky Approved (3000K CCT and warmer only)
IP68 Rated
ISO 9001
LAMP: LM81 Luminaire Consultant
UL/ULC Wet Location Listed

ENERGY DATA
EPA LED Driver
3-3 Power Factor
30% Total Harmonic Distortion
1000/270V Voltage
347V, 480V 60Hz
40°C Max. Temperature
40°C Max. Temperature
90°C Max. Temperature
90°C Max. Temperature
90°C Max. Temperature (90°C Max. Temperature DIA Option)

CUSTOMER NAME: _____ LOCATION: _____ QUANTITY: _____

NOTES: _____

3 LIGHT FIXTURE AND POLE NTS



4 LIGHT POLE FOOTING NTS



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