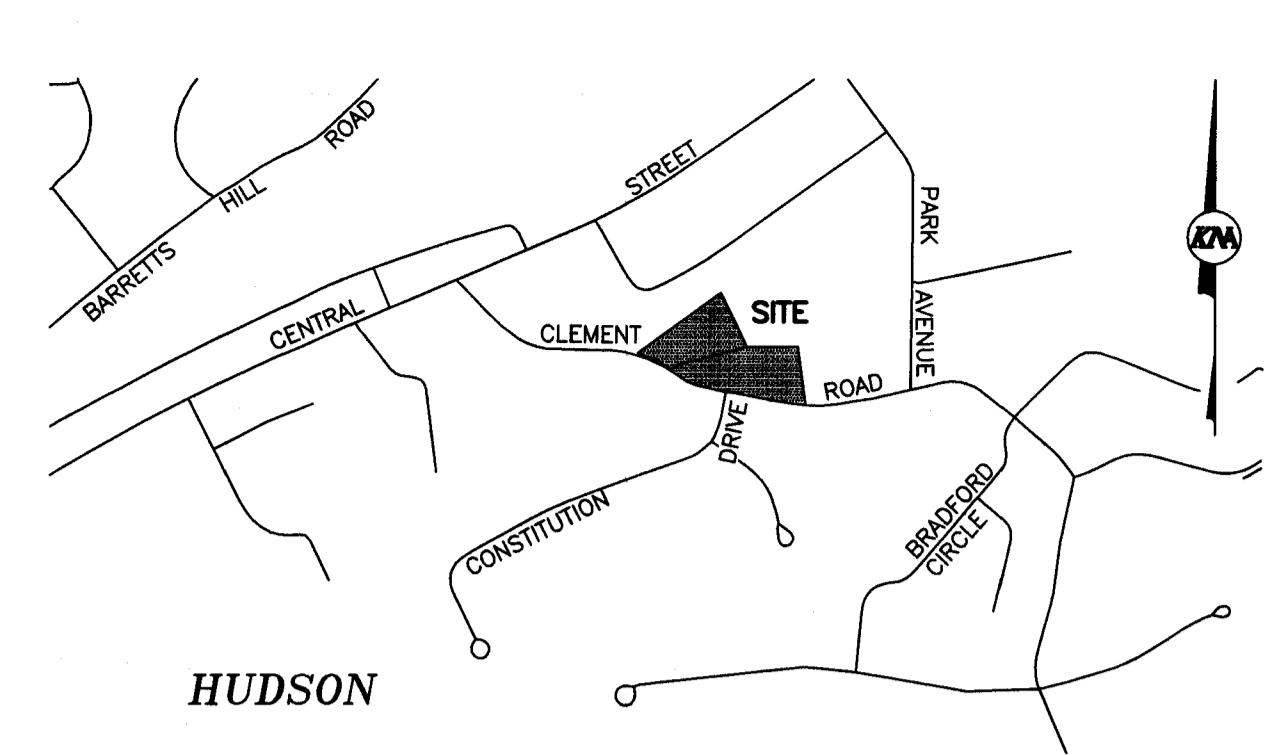


VICINITY PLAN
NOT TO SCALE

NON-RESIDENTIAL SITE PLAN ERICKSON FOUNDATION SOLUTIONS



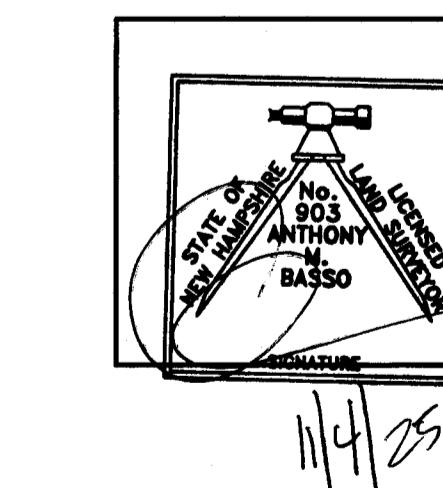
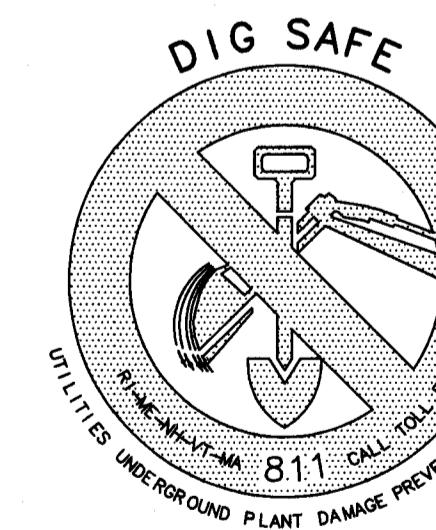
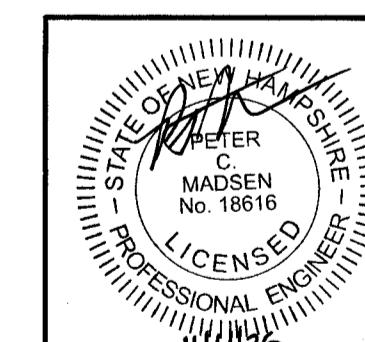
VICINITY PLAN

MAP 161; LOTS 49 & 50
14 & 18 CLEMENT ROAD
HUDSON, NEW HAMPSHIRE

OWNER OF LOT 49/APPLICANT:
CLEMENT WAREHOUSE. LLC
14 CLEMENT ROAD
HUDSON, NEW HAMPSHIRE 03051
BK. 9014 PG. 1118

OWNER OF LOT 50:
18 CLEMENT ROAD, LLC
29 BOYD ROAD
HUDSON, NEW HAMPSHIRE 03051
BK 9792 PG 977

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



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

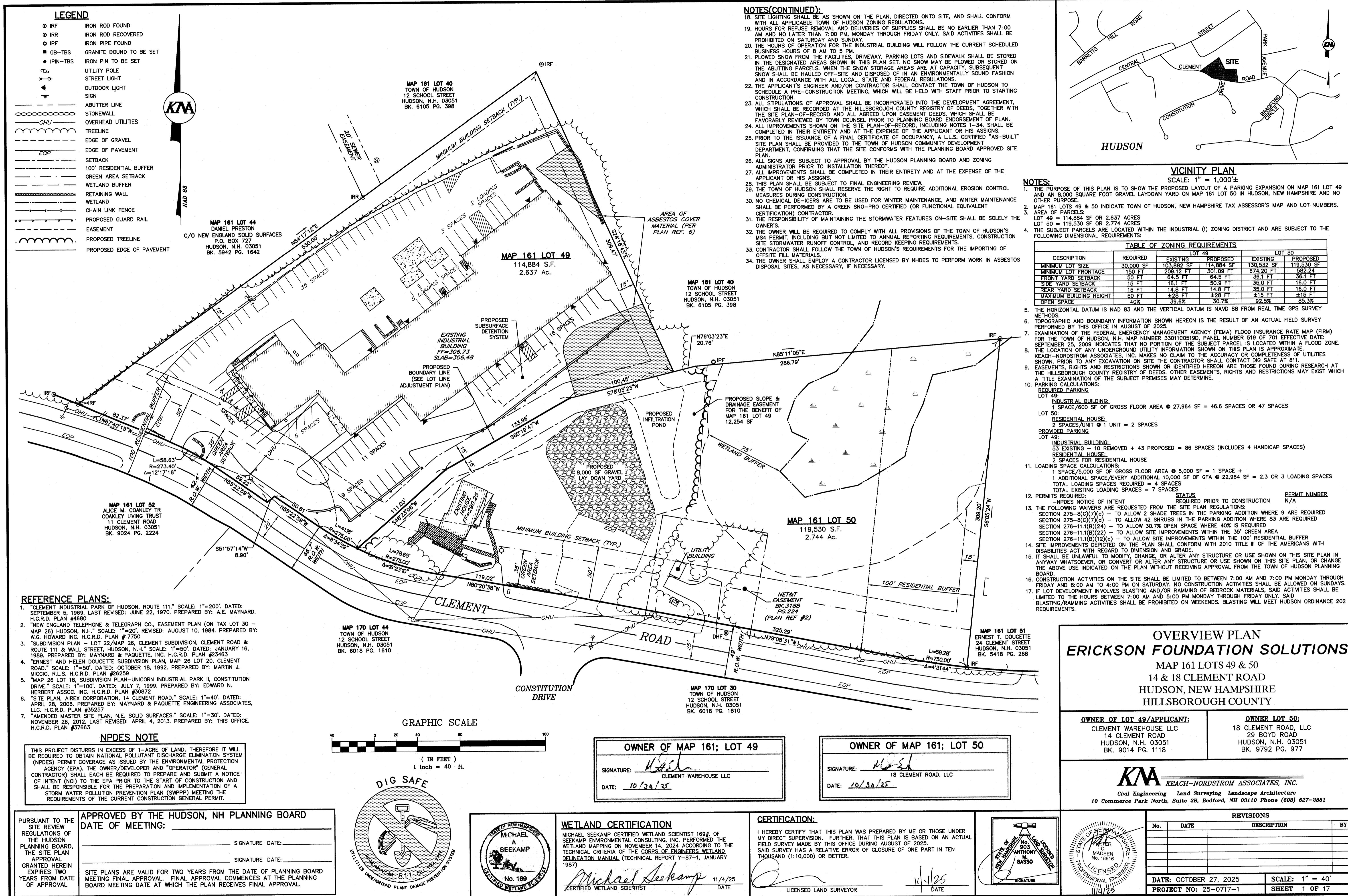
OCTOBER 27, 2023

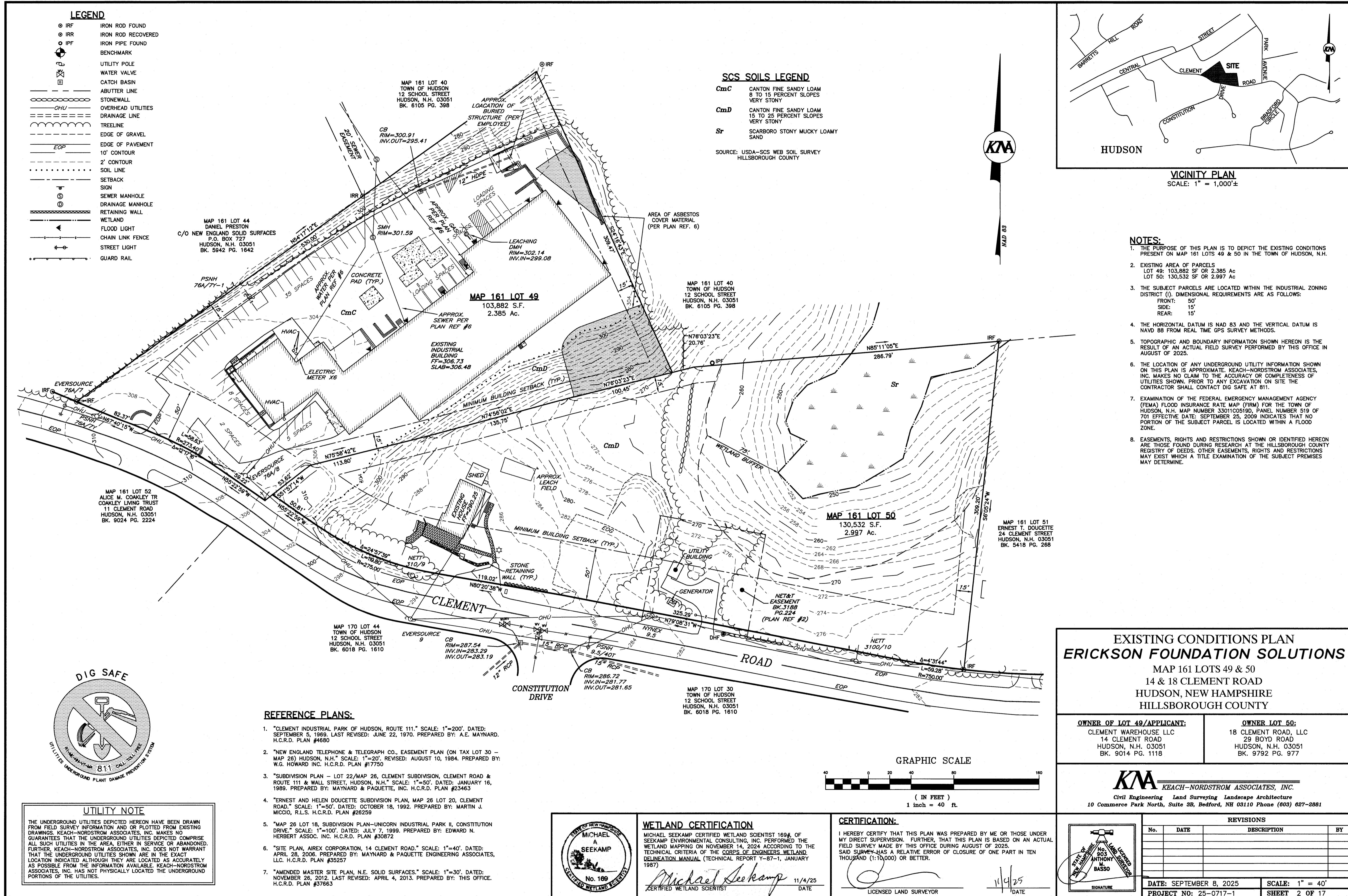
PROJECT NO. 25-0717-

SHEET TITLE

SHEET No.

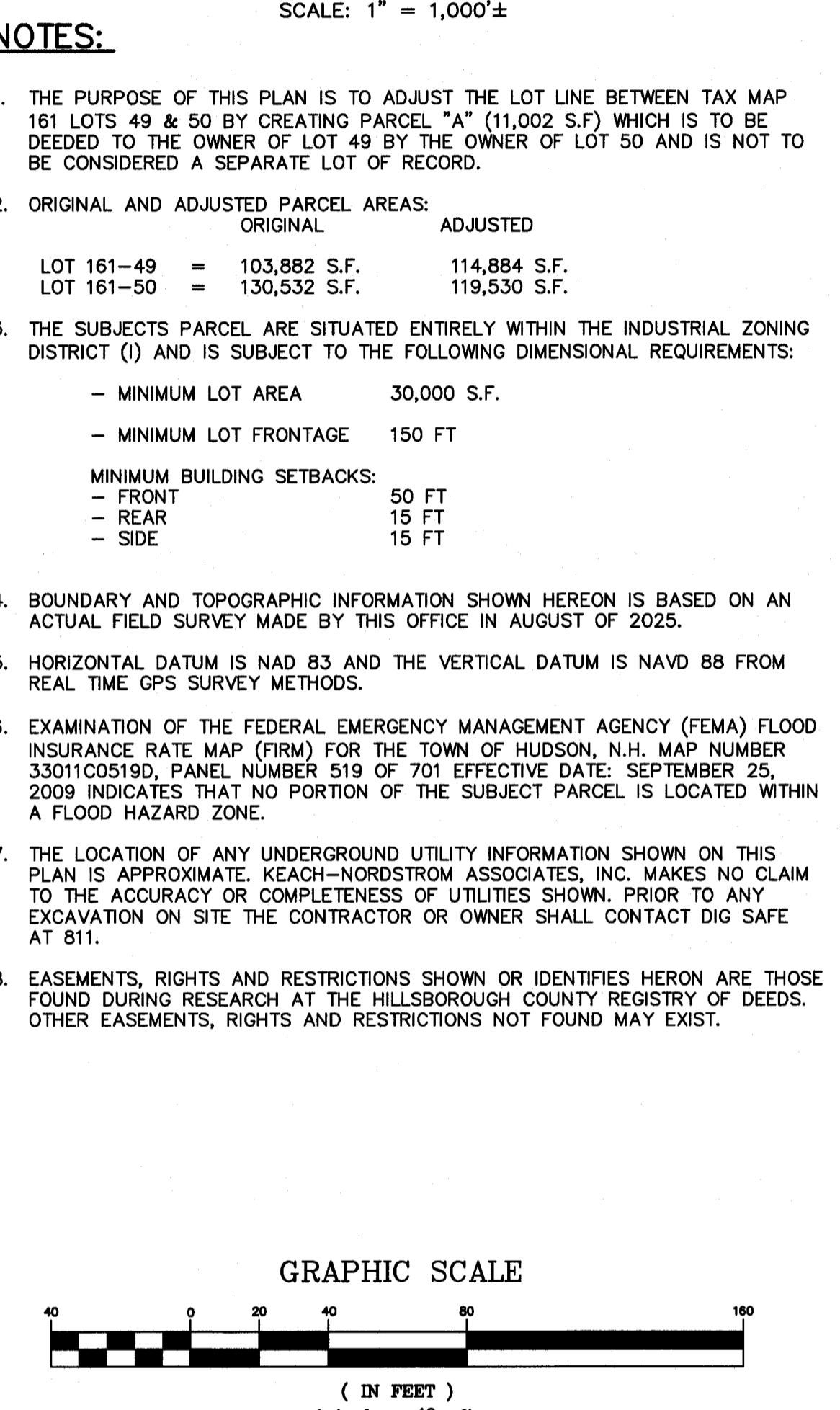
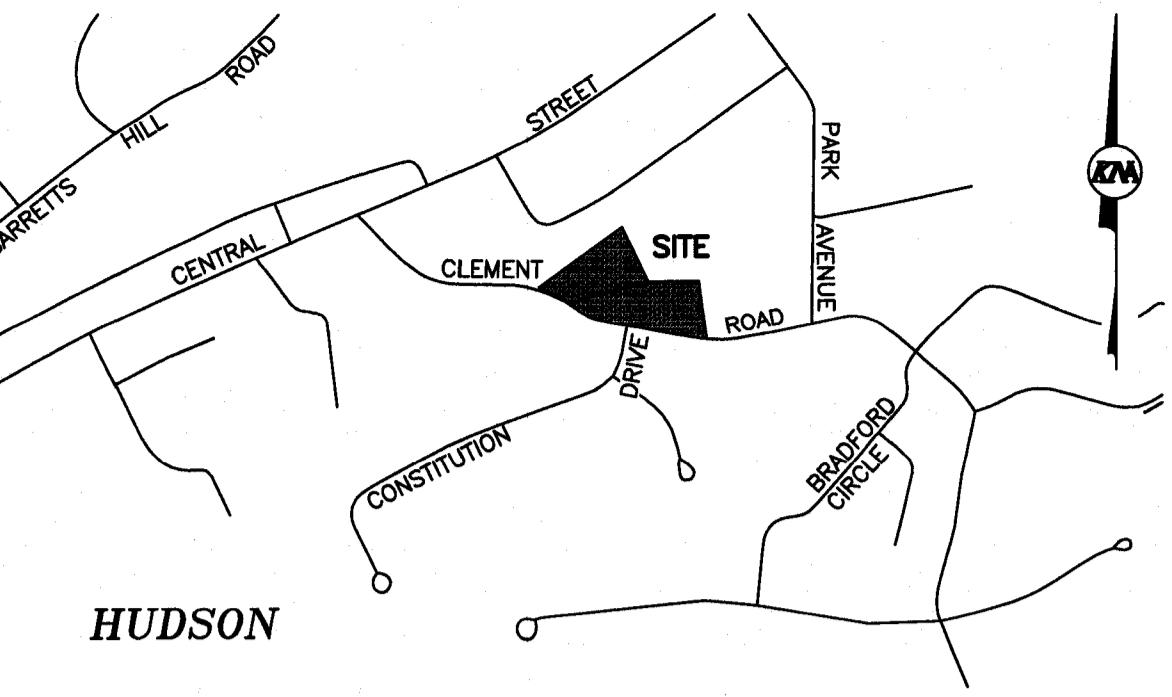
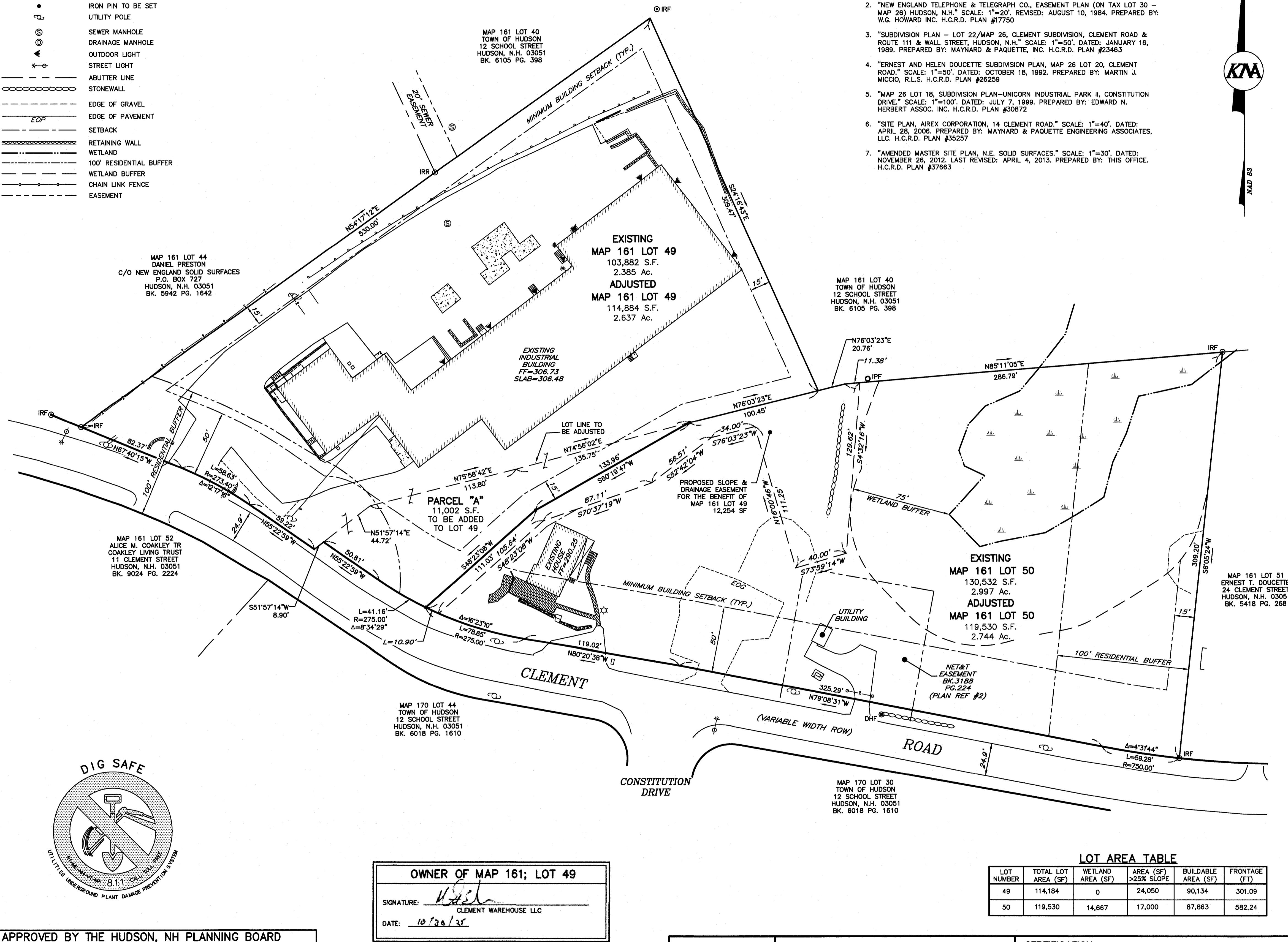
OVERVIEW PLAN	1
EXISTING CONDITIONS PLAN	2
LOT LINE ADJUSTMENT PLAN	3
TOPOGRAPHIC LOT LINE ADJUSTMENT PLAN	4
REMOVALS/DEMOLITION PLAN	5
NON-RESIDENTIAL SITE PLAN	6
GRADING, DRAINAGE & UTILITY PLAN	7
EROSION CONTROL PLAN	8
LANDSCAPE PLAN	9
LIGHTING PLAN	10
SIGHT DISTANCE PLAN & PROFILE	11 - 12
DRAINAGE PROFILES	13
CONSTRUCTION DETAILS	14 - 17





LEGEND

- IRF IRON ROD FOUND
- IRR IRON ROD RECOVERED
- IPF IRON PIPE FOUND
- GRANITE BOUND TO BE SET
- IRON PIN TO BE SET
- UTILITY POLE
- SEWER MANHOLE
- DRAINAGE MANHOLE
- OUTDOOR LIGHT
- STREET LIGHT
- ABUTTER LINE
- STONEWALL
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- SETBACK
- RETAINING WALL
- WETLAND
- 100' RESIDENTIAL BUFFER
- WETLAND BUFFER
- CHAIN LINK FENCE
- EASEMENT



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

SIGNATURE: _____ DATE: _____

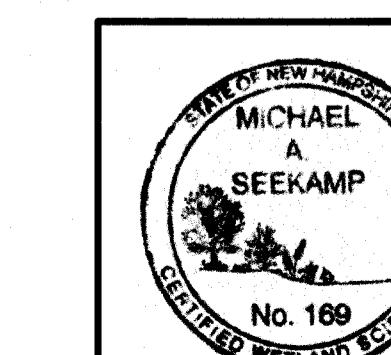
SUBDIVISIONS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FOR AN APPLICANT TO GAIN AN EXEMPTION FROM ALL SUBSEQUENT CHANGES IN SUBDIVISION REGULATIONS, SITE PLAN REGULATIONS AND CHANGES TO THE ZONING ORDINANCE, SEE NH RSA 674:39.

OWNER OF MAP 161; LOT 49

SIGNATURE: *M. J. See Kamp*
CLEMENT WAREHOUSE LLC
DATE: 10/30/25

OWNER OF MAP 161; LOT 50

SIGNATURE: *M. J. See Kamp*
18 CLEMENT ROAD, LLC
DATE: 10/30/25



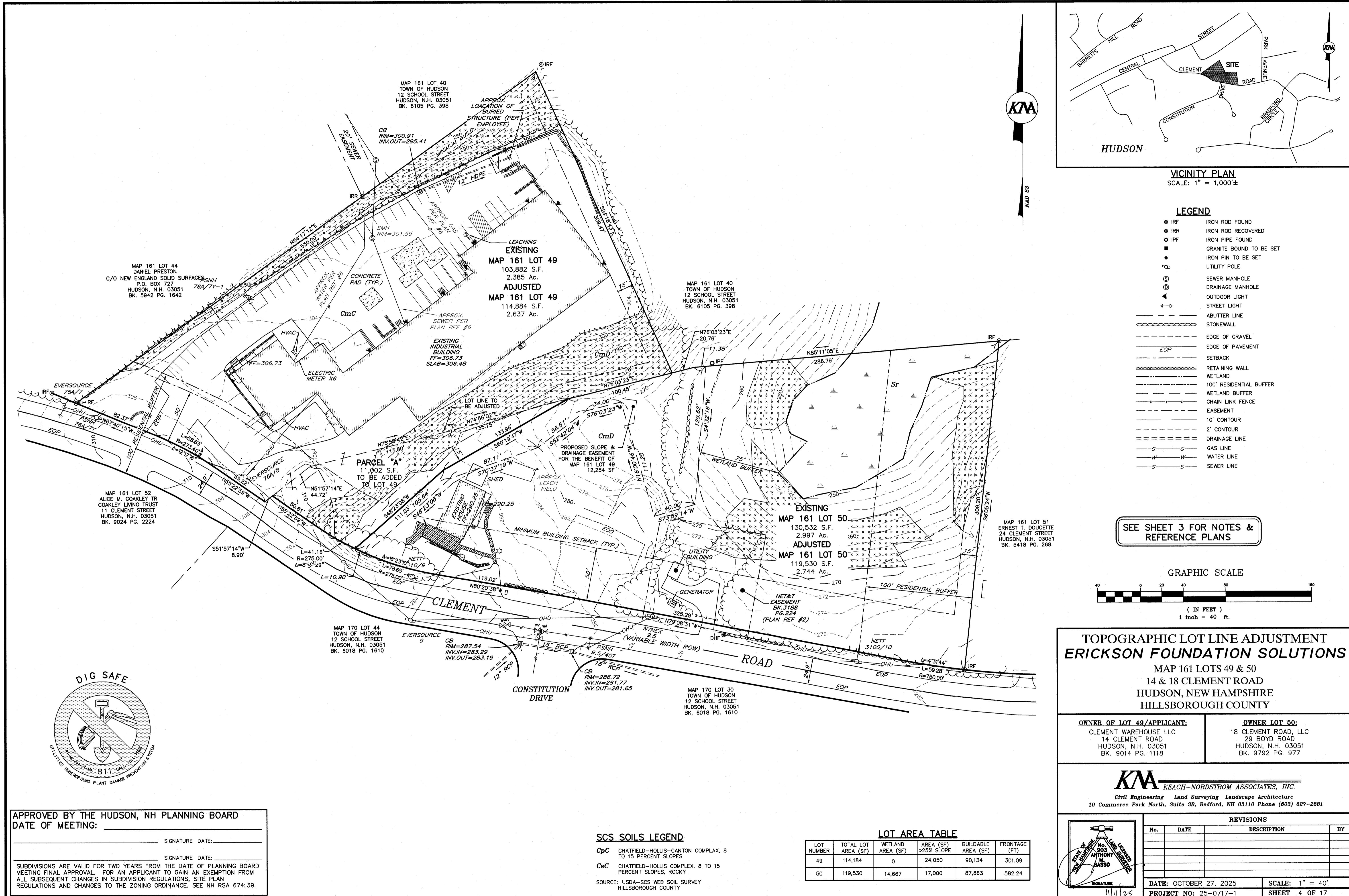
WETLAND CERTIFICATION
MICHAEL SEE KAMP CERTIFIED WETLAND SCIENTIST 169# OF SEE KAMP ENVIRONMENTAL CONSULTING, INC. PERFORMED THE WETLAND MAPPING ON NOVEMBER 14, 2024 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987)
Michael J. See Kamp
11/4/25
CERTIFIED WETLAND SCIENTIST

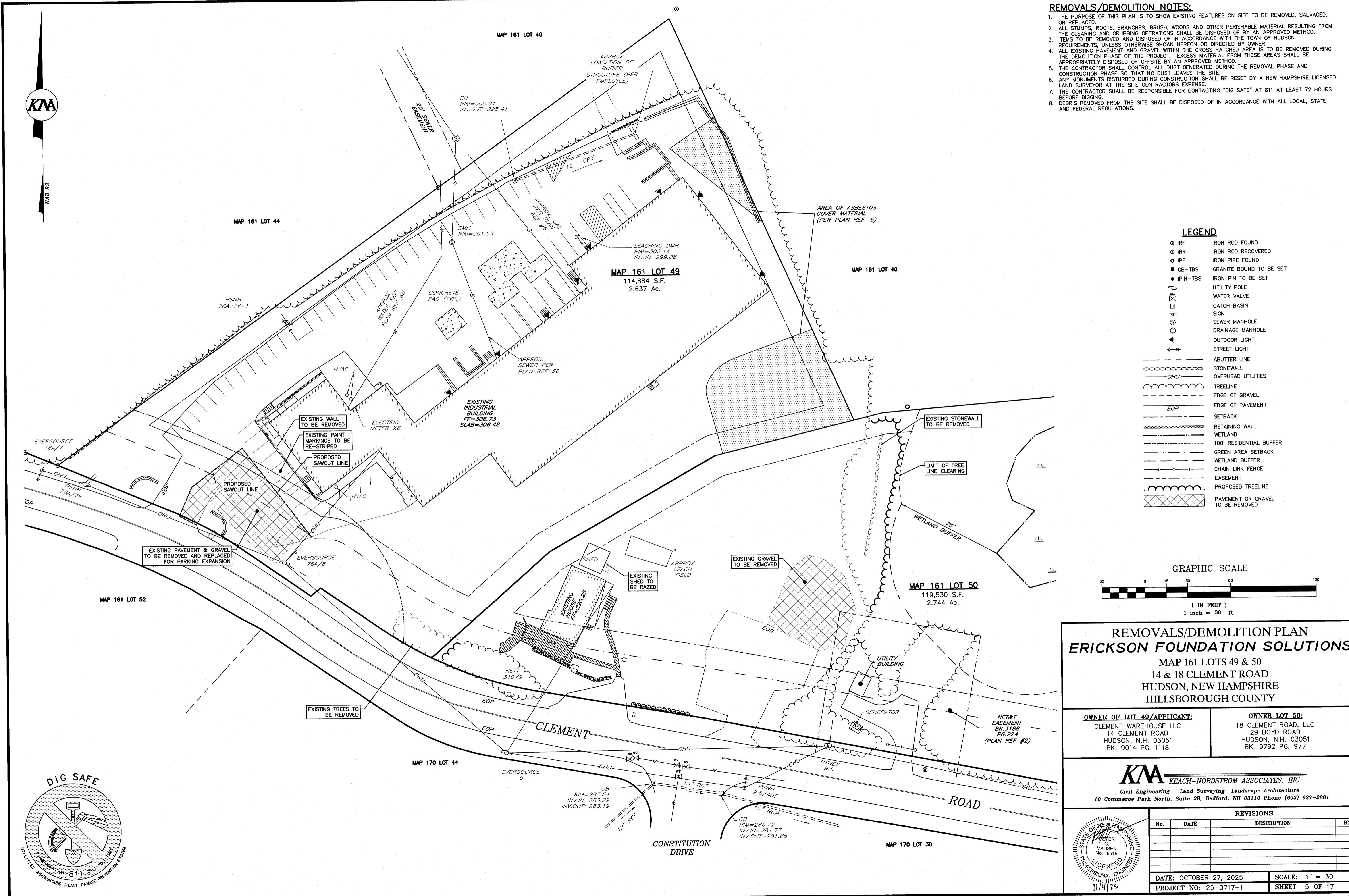
CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE DURING AUGUST OF 2025. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.
M. J. See Kamp
LICENCED LAND SURVEYOR
DATE: 11/4/25

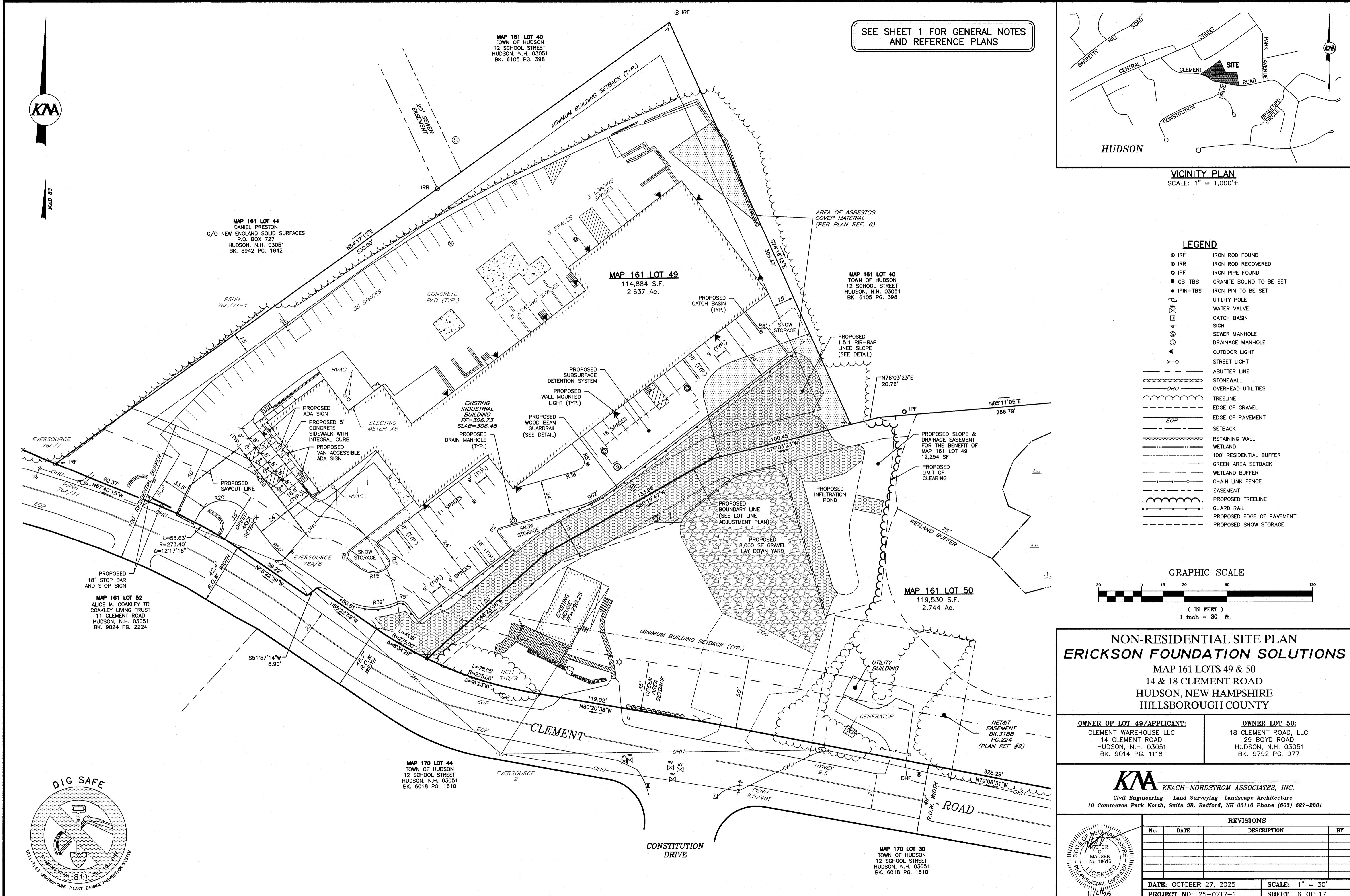
REVISIONS

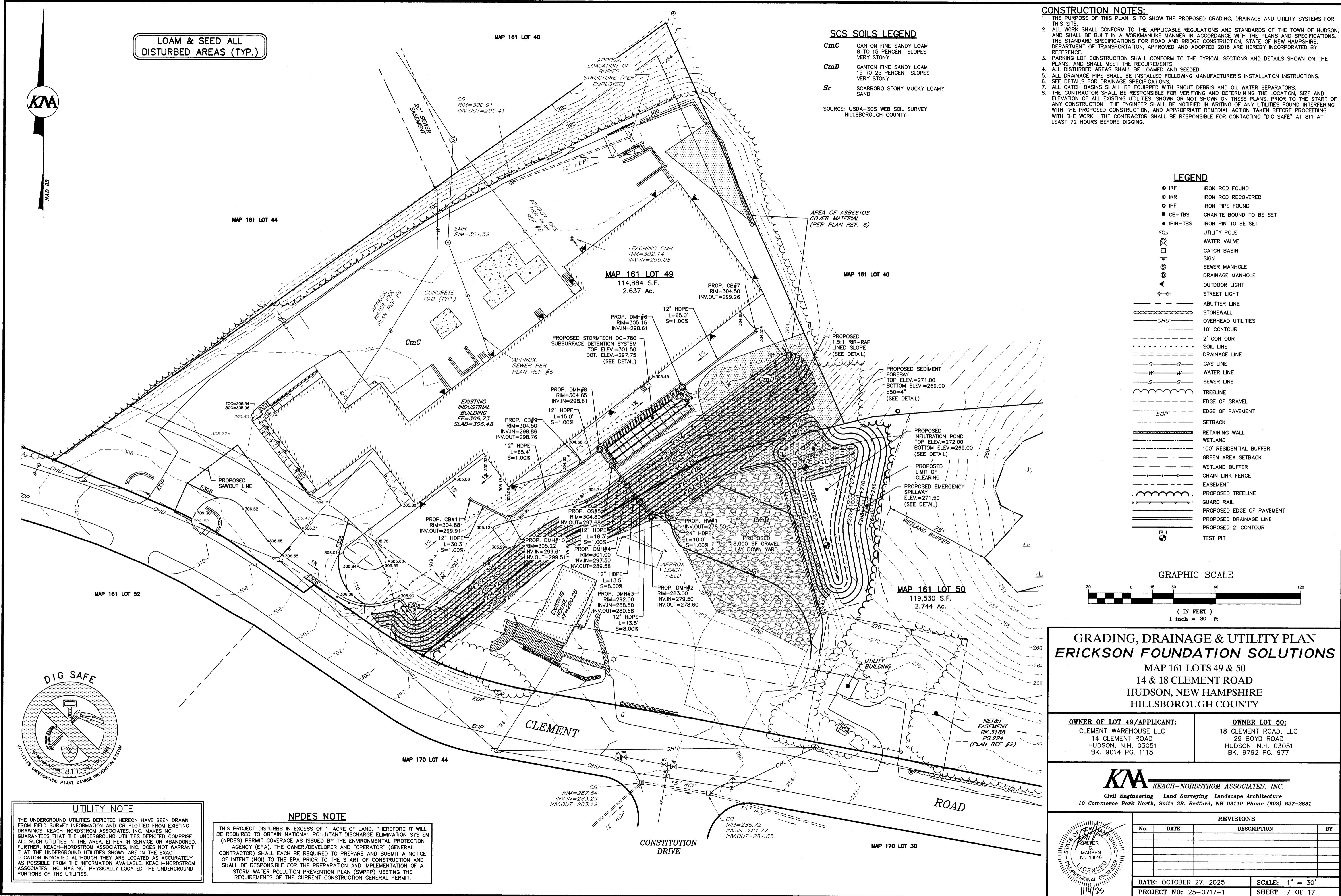
No.	Date	Description	By

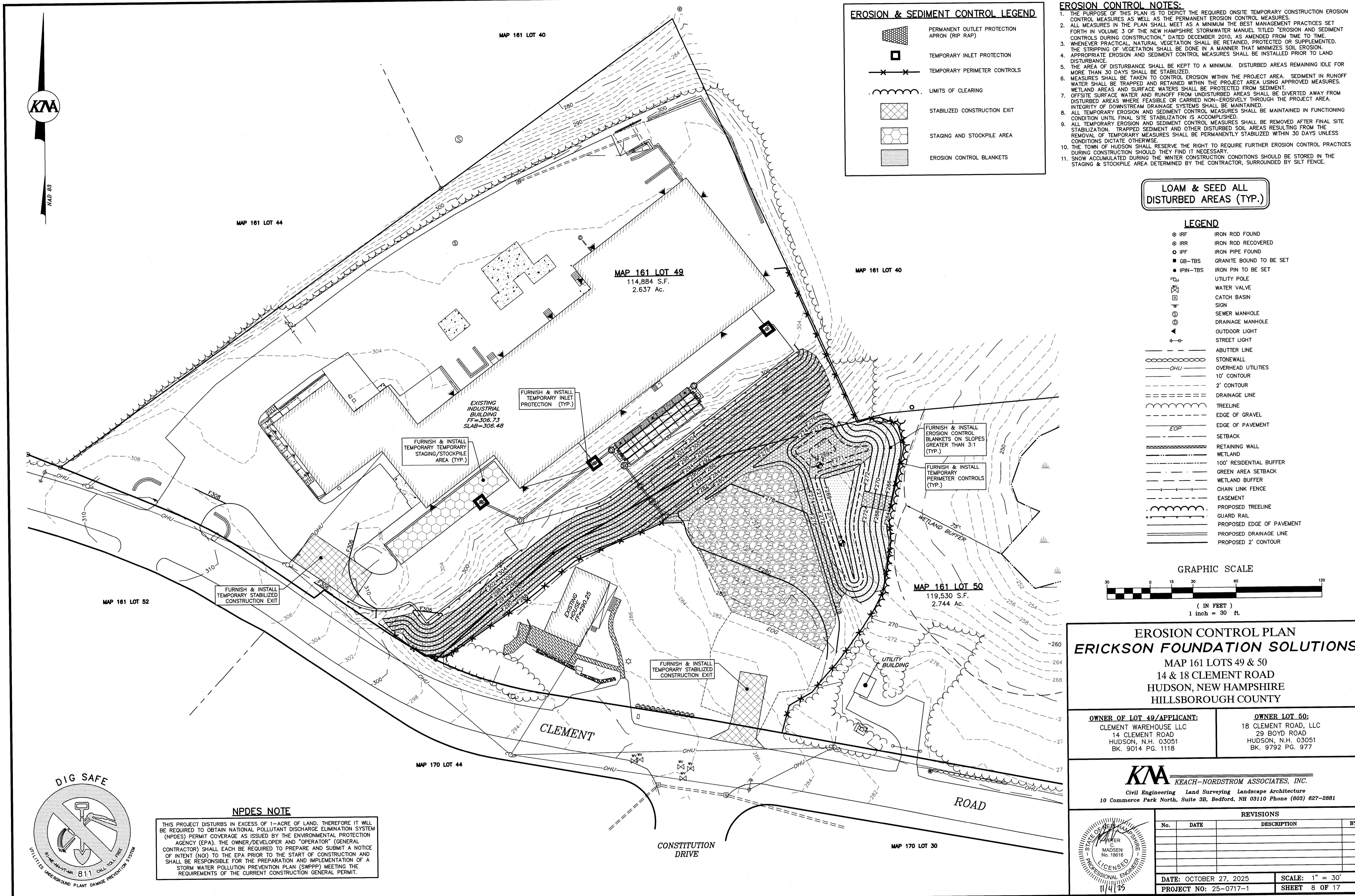
DATE: OCTOBER 27, 2025
SCALE: 1" = 40'
PROJECT NO: 25-0717-1
SHEET 3 OF 17













NAD 83

MAP 161 LOT 40

MAP 161 LOT 44

MAP 161 LOT 49
114,884 S.F.

LOAM & SEED ALL
TURBED AREAS (TYP.)



LANDSCAPE CALCULATIONS

<u>REQUIRED PARKING LOT INTERIOR LANDSCAPE AREA</u>	
PROPOSED PARKING AREA PAVED:	16,60
10% REQUIRED LANDSCAPE AREA:	1,660
PROVIDED LANDSCAPE AREA:	1,783

REQUIRED PARKING LOT SHADE TREES AND SHRUBS

PROPOSED PAVED AREA:	16,603 SF
SHADE TREES REQUIRED (16,603/1,600): (OR 1 TREE/5 PROP. SPACES)	11 TREES REQUIRED 9 TREES REQUIRED
SHADE TREES PROPOSED:	2 TREES PROPOSED (WAIVER REQUESTED)
SHRUBS REQUIRED (16,603/200): (OR 1.6/43 PROP. SPACES)	83 SHRUBS, OR 27 SHRUBS REQUIRED
SHRUBS PROPOSED:	34 SHRUBS PROPOSED (WAIVER REQUESTED)

SCAPE NOTES:

THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE LANDSCAPE WHICH PROVIDES CLIMATIC RELIEF AND AESTHETIC APPEAL.

ALL PLANT MATERIALS USED SHALL BE NURSERY STOCK AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF INSTALLATION. ANY MATERIAL WHICH DIES OR DOES NOT SHOW HEALTHY APPEARANCE WITHIN THIS TIME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; WITH SAME WARRANTY REQUIREMENTS AS THE ORIGINAL. WARRANTIES TYPICALLY DO NOT COVER LOSS DUE TO INSECT INFESTATION OR MECHANICAL DAMAGE (I.E. SNOW STORAGE).

IF THE SOIL CONDITIONS ARE EXTREMELY SANDY, ALL TREES SHALL HAVE A 6" LAYER OF COMPAKTED TOPSOIL PLACED IN THE BASE OF THE PLANT PIT AS A MOISTURE RETENTION LAYER. THE PLANT PIT SIDEWALLS SHALL BE OVER EXCAVATED BY AN ADDITIONAL 12" BEYOND THE NORMAL OUTSIDE RADIUS OF THE HOLE. A TOPSOIL MIXTURE SHALL BE USED TO BACKFILL THE HOLE AS FOLLOWED; ORGANIC TOPSOIL, AMENDED WITH 10% WOOD ASH, 10% MANURE, 30% PEATMOSS AND A GRANULAR HYDROGEL TO ABSORB AND RETAIN WATER.

PLANTING BEDS AND SAUCERS SHALL RECEIVE A 4" MINIMUM THICKNESS OF PINE/HEMLOCK BARK MULCH OVER A 5oz. POLYPROPYLENE WEED CONTROL FABRIC.

PAVEMENT AND ROAD BASE MATERIAL ENCOUNTERED IN ANY LAWN OR PLANTING BED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SUITABLE AMENDED SOIL INSTALLED AS SPECIFIED IN THE TURF ESTABLISHMENT SCHEDULE.

PLANT TYPES SHOWN ARE SUBJECT TO AVAILABILITY. SUBSTITUTE MATERIALS CAN BE IMPLEMENTED WITH APPROVAL FROM KEACH-NORDSTROM ASSOCIATES PRIOR TO CONSTRUCTION.

FOLLOWING ESTABLISHMENT, VEGETATED BUFFERS ONLY REQUIRE ROUTINE MAINTENANCE AND PERIODIC INSPECTIONS. APPLICANT SHALL INSPECT THE BUFFER AFTER HEAVY RAINFALL AND AT LEAST ONCE A YEAR. INSPECTIONS SHOULD FOCUS ON EROSION, VEGETATION DENSITY, EVIDENCE OF CONCENTRATED FLOWS, AND ANY DAMAGE. VEGETATED BUFFERS SHALL REMAIN IN A NATURAL STATE AND MUST BE PROTECTED TO ENSURE THAT NO FUTURE DEVELOPMENT, DISTURBANCE, OR CLEARING MAY OCCUR WITHIN THE AREA. THIS INCLUDES NOT REMOVING THE DUFF LAYER OR WOODY DEBRIS (NO RAKING). AREAS OF EROSION OR LOSS OF PLANTINGS SHALL BE RESTORED BY INSTALLING NEW SOIL AND VEGETATION IN KIND. INVASIVE SPECIES SHALL BE MONITORED AND REMOVED IF FOUND.

LEGEND

◎ IRF	IRON ROD FOUND
◎ IRR	IRON ROD RECOVERED
◎ IPF	IRON PIPE FOUND
■ GB-TBS	GRANITE BOUND TO BE SET
● IPIN-TBS	IRON PIN TO BE SET
◎	UTILITY POLE
WV	WATER VALVE
III	CATCH BASIN
◎	SIGN
◎	SEWER MANHOLE
◎	DRAINAGE MANHOLE
◀	OUTDOOR LIGHT
*—	STREET LIGHT
— — —	ABUTTER LINE
○○○○○○○○○○	STONEWALL
— OHU —	OVERHEAD UTILITIES
~~~~~	TREELINE
— — — —	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
— — —	SETBACK
~~~~~	RETAINING WALL
— — — —	WETLAND
— — — — —	100' RESIDENTIAL BUFFER
— — — — —	GREEN AREA SETBACK
— — — — —	WETLAND BUFFER
— — — — —	CHAIN LINK FENCE
— — — — —	EASEMENT
~~~~~	PROPOSED TREELINE
— — — — —	GUARD RAIL
— — — — —	PROPOSED EDGE OF PAVEMENT
○○○○○○○○○○	SHADE TREES
●●●●●●●●●●	SHRUBS

## GRAPHIC SCALE

# LANDSCAPE PLAN

## RICKSON FOUNDATION SOLUTIONS

MAR 16 1961 LOTS 40 & 50

MAP 161 LOTS 49 & 50  
4 & 18 CLEMENT ROAD  
HUDSON, NEW HAMPSHIRE  
HILLSBOROUGH COUNTY

**LOT 49/APPLICANT:**  
WAREHOUSE LLC  
EMENT ROAD  
N, N.H. 03051

The logo for Keach-Nordstrom Associates, Inc. (KMA) features a large, bold, serif capital letter 'K' followed by a large, bold, serif capital letter 'M' with a horizontal line extending from the top of the 'M' to the right. Below the letters, the company name 'KEACH-NORDSTROM ASSOCIATES, INC.' is written in a smaller, all-caps, serif font.

**DATE: OCTOBER 27, 2025**

SCALE: 1" = 30'

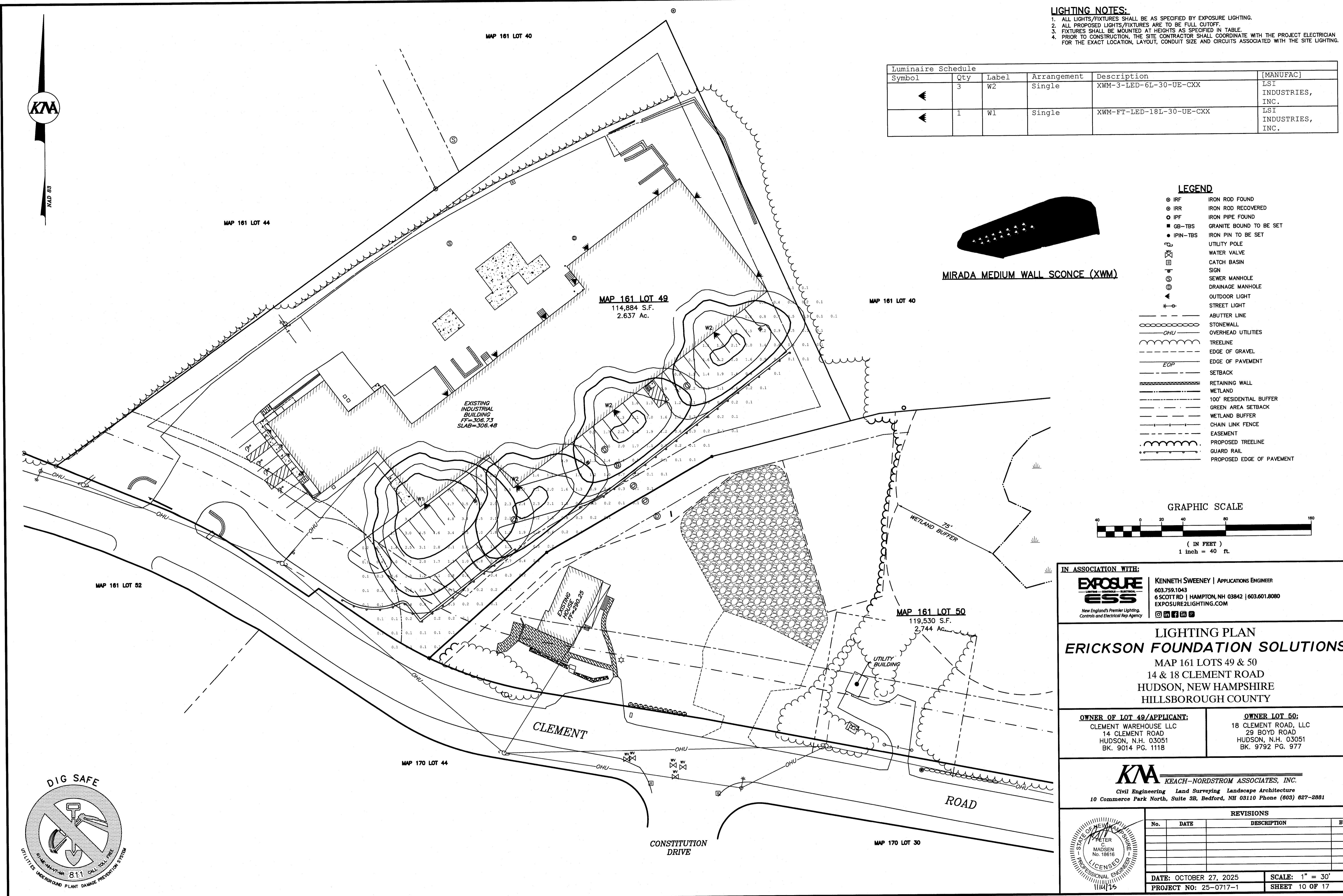
PROJECT NO: 25-0717-1

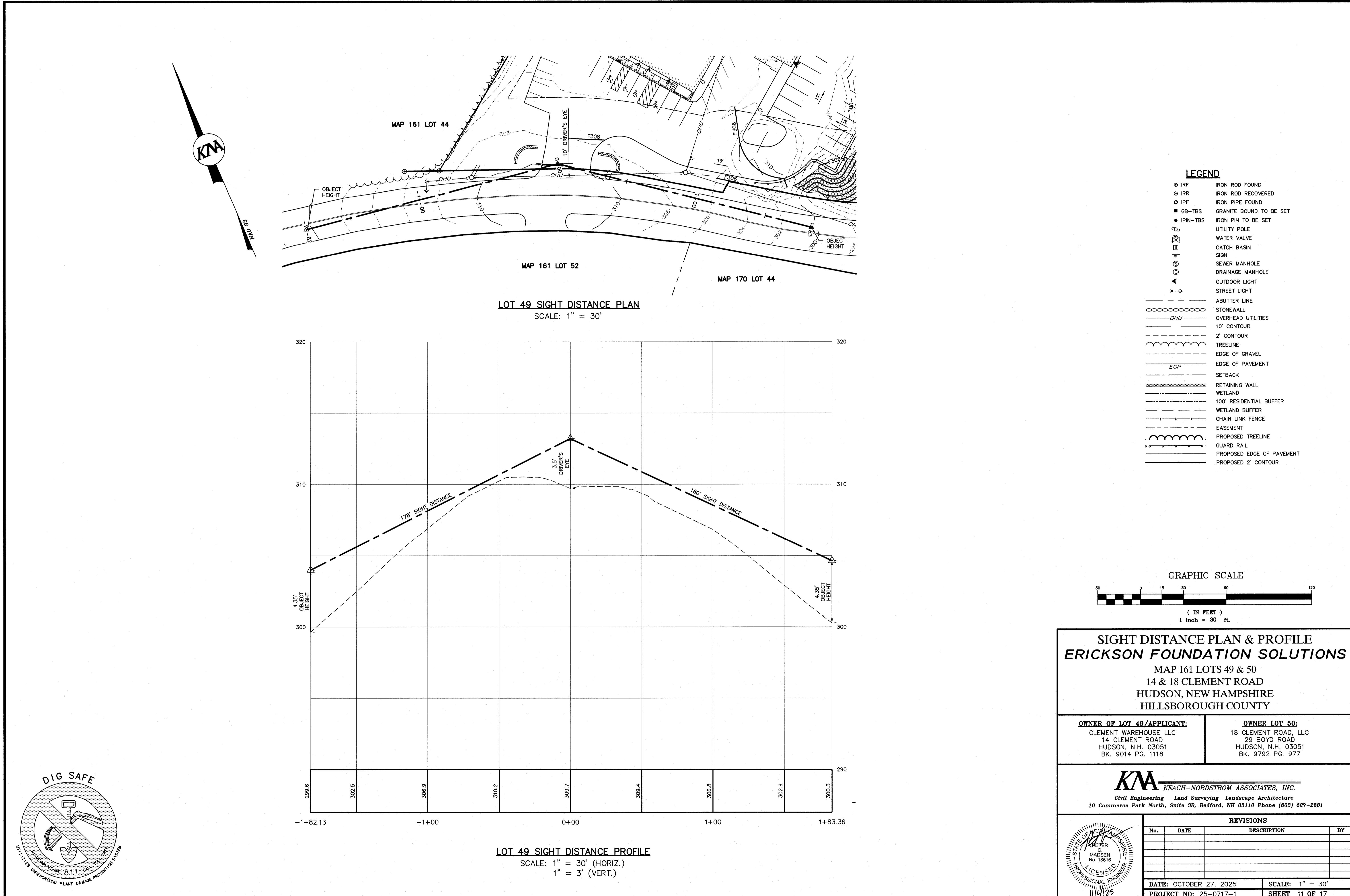
SHEET 9 OF 1

PLANTING SCHEDULE					
<u>Botanical Name/ Common Name</u>	<u>Size</u>	<u>Label</u>	<u>Quantity</u>	<u>Mature Height</u>	
<b>Trees</b>					
<i>Cornus kousa</i> / Kousa Dogwood	2.5-3" CAL.	CK	2	20-30'	
<i>Pyrus calleryanna</i> 'Chanticleer' / Chanticleer Flowering Pear	2.5-3" CAL.	PC	2	30-40'	
<b>Shrubs</b>					
<i>Azalea</i> 'Bloom A Thon Lavendar' / Bloom A Thon Lavendar Azalea	#3	AB	3	4-5'	
<i>Hydrangea paniculata</i> 'Bombshell' / Bombshell Panicle Hydrangea	#3	BH	2	3-4'	
<i>Thujas occidentalis</i> 'Elegantissima' / Gold-tipped Abies	5-6' B&B	GT	2	3-4'	
<i>Morella caroliniensis</i> / Small Bayberry	#3	MC	1	5-10'	
<b>Perennials</b>					
<i>Hemerocallis</i> 'Joan Senior' / Joan Senior	#1 Gal.	JS	8	18-24"	
<i>Hemerocallis</i> 'Stella de Oro' / Stella de Oro	#1 Gal.	SO	10	18-24"	
<b>Grasses</b>					
<i>Panicum virgatum</i> 'Shenandoah' / Shenandoah Switch Grass	#2 Gal.	PV	8	3-4'	

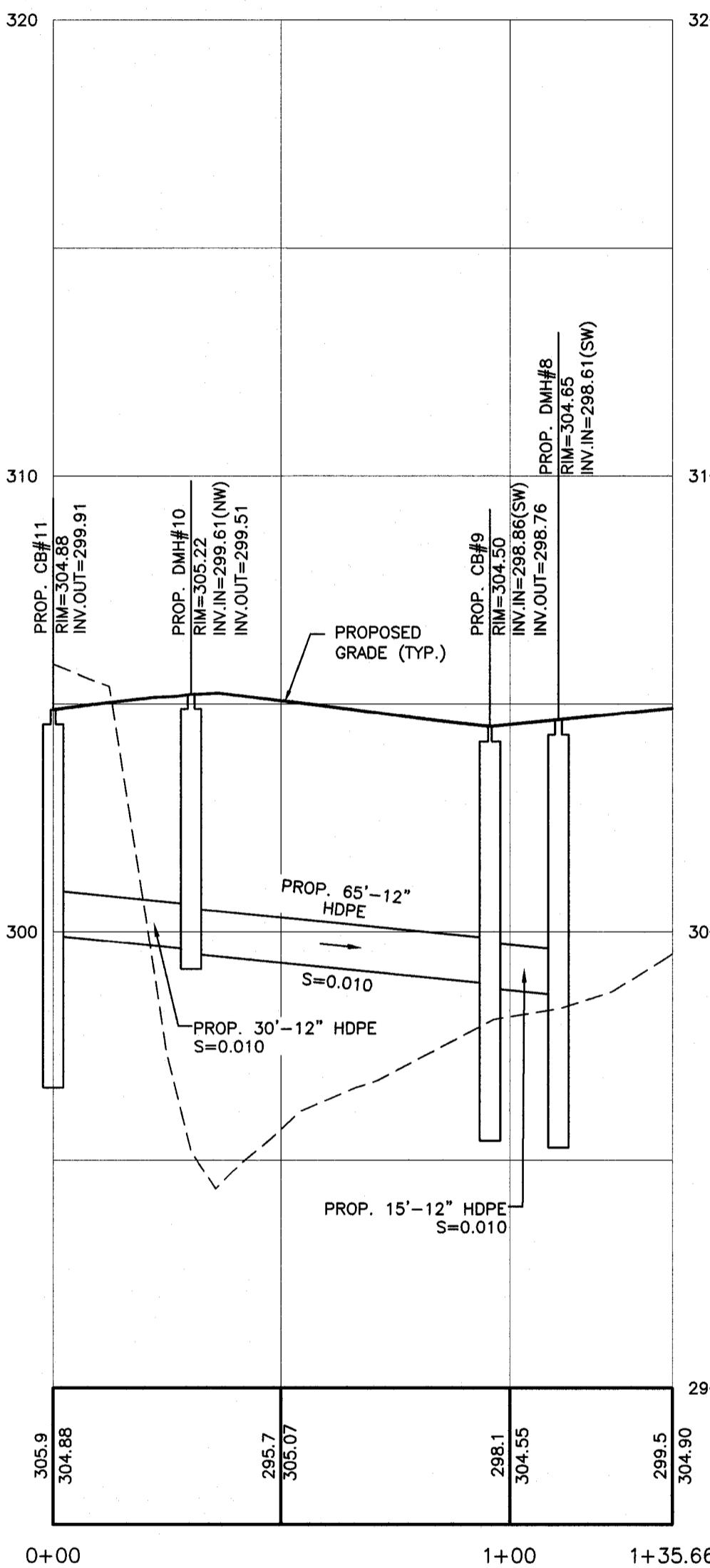
1997-1998-1999-2000

## **CONSTITUTION DRIVE**



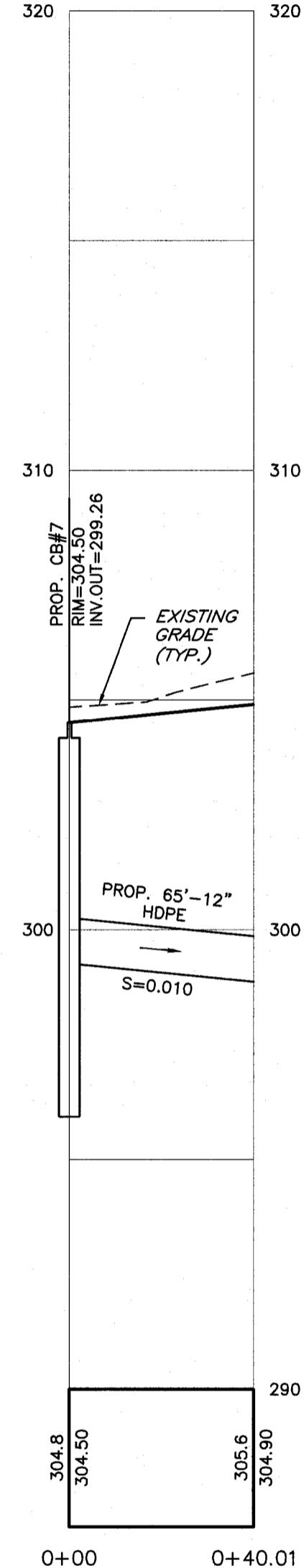






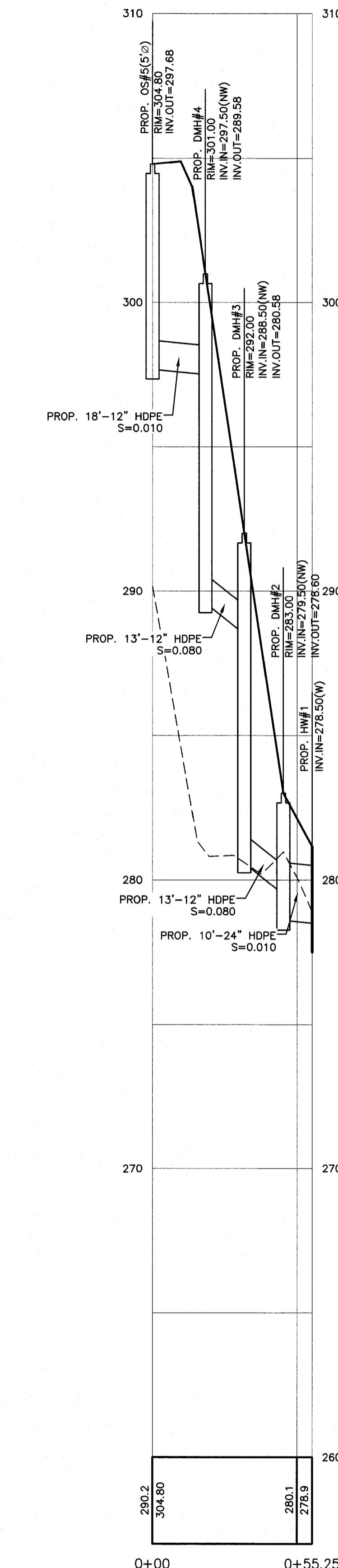
DRAINAGE PROFILE  
CB#11 TO DMH#8

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



**DRAINAGE PROFILE**  
**CB#7 TO DMH#6**

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



## GRAPHIC SCALE

( IN FEET )  
1 inch = 30 ft.

---

MAP 161 LOTS 49 & 50  
14 & 18 CLEMENT ROAD  
HUDSON, NEW HAMPSHIRE  
HILLSBOROUGH COUNTY

**OWNER LOT 50:**  
18 CLEMENT ROAD, LLC  
29 BOYD ROAD  
HUDSON, N.H. 03051  
RK 9792 PG 977

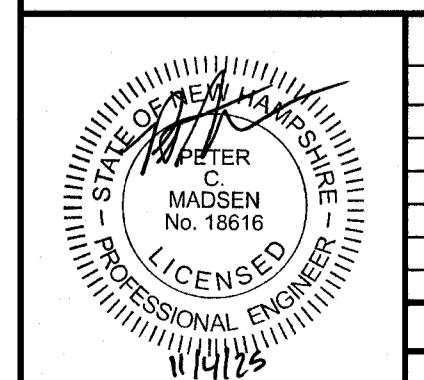
# **KNA** KEACH-NORDSTROM ASSOCIATES, INC.

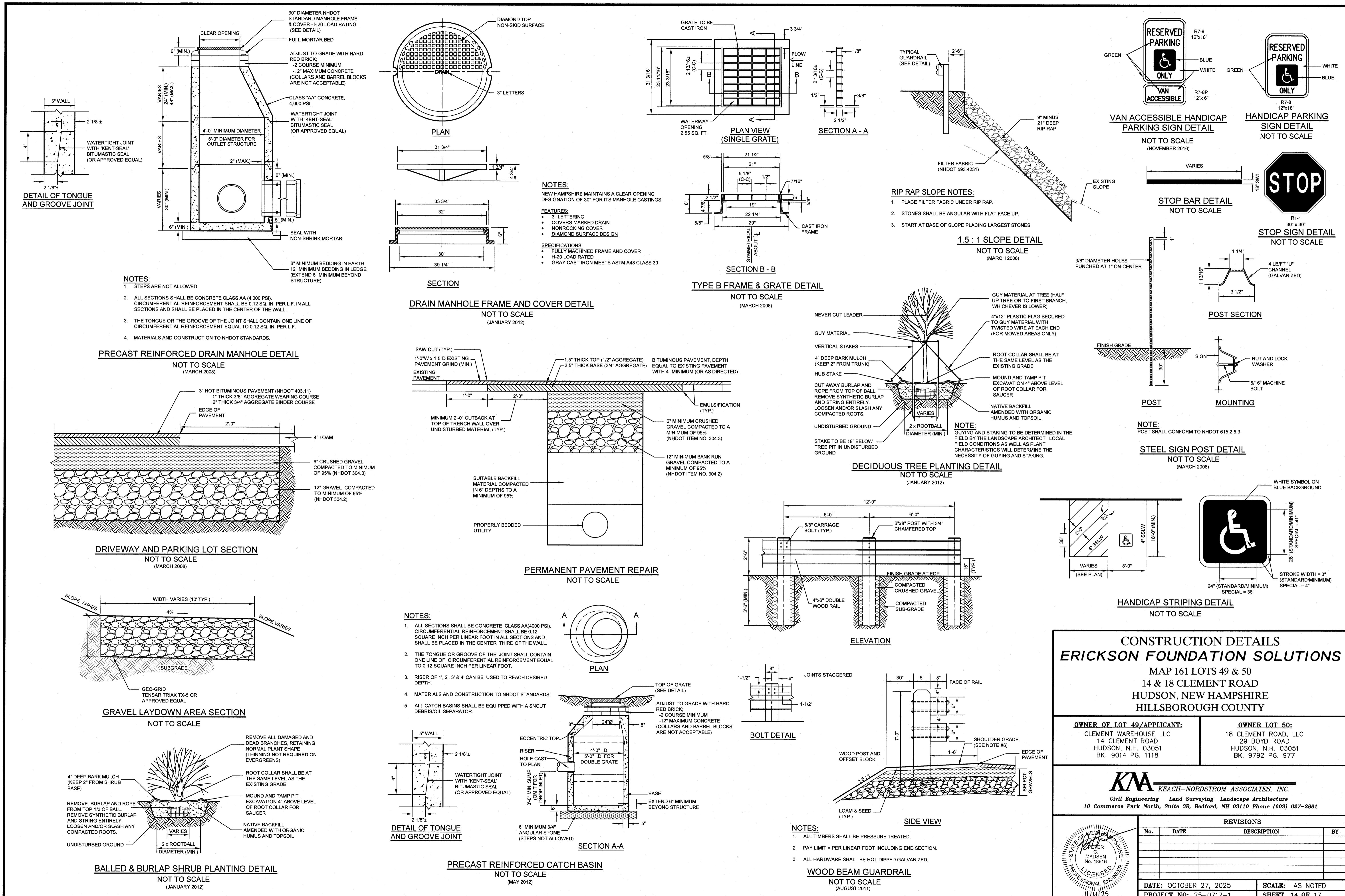
**Civil Engineering Land Surveying Landscape Architecture**  
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

## DRAINAGE PROFILE

### OS#5 TO HW#1

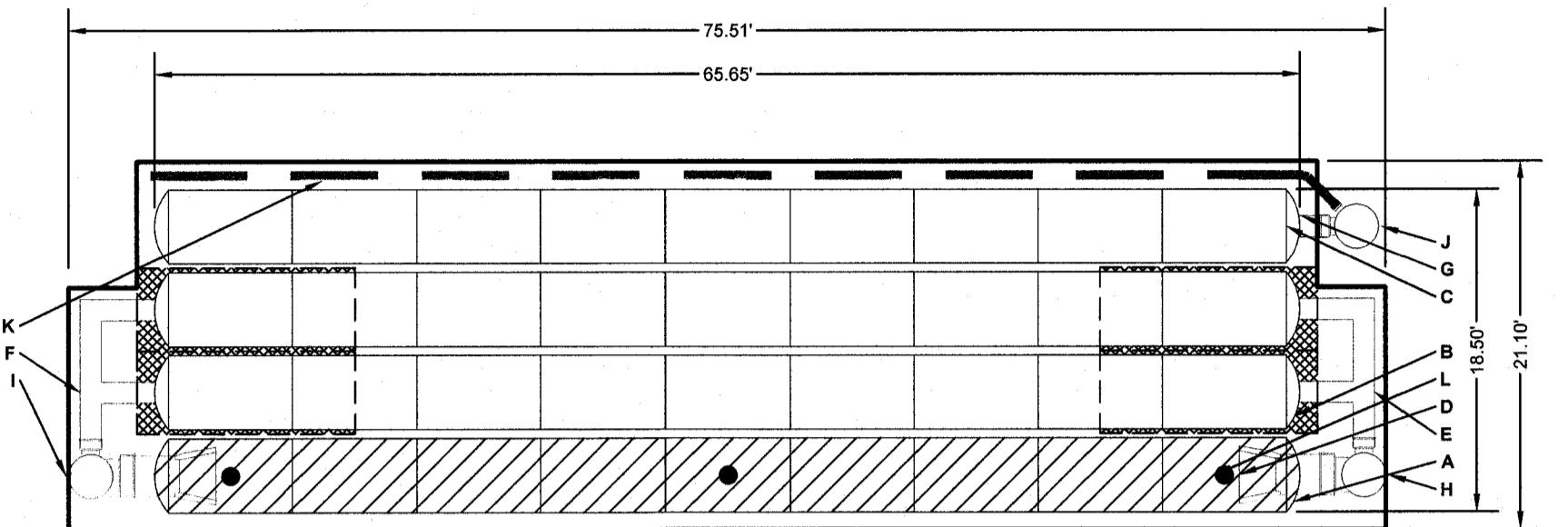
SCALE: 1" = 30' (HORIZ.)  
1" = 3' (VERT.)







PROPOSED LAYOUT	PROPOSED ELEVATIONS
36 STORMTECH DC-780 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT UNPAVED): 313.00
8 STORMTECH DC-780 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): 303.00
6 STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): 302.50
STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): 302.50
40 SYSTEM VOLUME (CF)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): 302.50
INSTALLED SYSTEM VOLUME (CF)	TOP OF STONE: 301.00
PERIMETER STONE INCLUDED	12" x 12" TOP MANIFOLD INVERT: 298.50
PERIMETER STONE INCLUDED	12" x 12" TOP MANIFOLD INVERT: 298.50
1537 SYSTEM AREA (SF)	12" BOTTOM CONNECTION INVERT: 298.50
18.2 SYSTEM PERIMETER (ft)	24" ISOLATOR ROW PLUS INVERT: 298.50
302 THERMOPLASTIC LINER (SY)	24" ISOLATOR ROW PLUS INVERT: 298.50
(20% OVERAGE)	24" ISOLATOR ROW PLUS INVERT: 298.50
	UNDERDRAIN INVERT: 297.75
	BOTTOM OF STONE: 297.75
	NYLOPLAST (INLET W/ ISO NYLOPLAST OUTLET): 297.75
	UNDERDRAIN: 297.75
	INSPECTION PORT: 297.75



ISOLATOR ROW PLUS (SEE DETAIL)  
PLACE MINIMUM 12.50' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERDRAIN CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

THERMOPLASTIC LINER (SEE TECH NOTE #6.50 PROVIDED BY OTHERS / DESIGN BY OTHERS)

#### NOTES

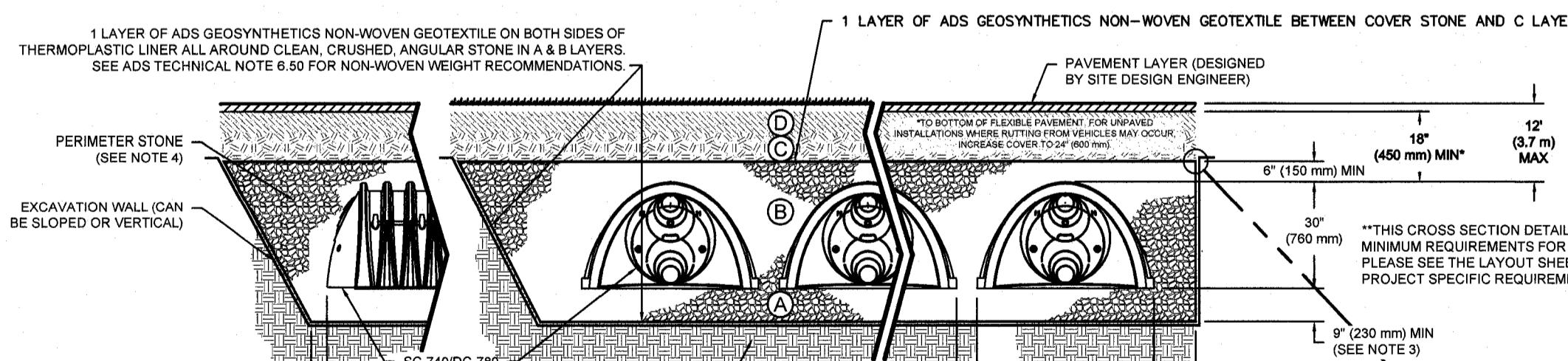
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER FOR PREVENTS STONE FROM SPILLING INTO THE CHAMBER.
- NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

TP #1	TP #2
LOGGED BY GPC PERC TEST @ 20° DATE: 10-23-2025 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: NONE	LOGGED BY GPC PERC TEST @ 20° DATE: 10-23-2025 PERC RATE: 4 MIN./INCH IMPERVIOUS LAYER: NONE WATER ENCOUNTERED: NONE
0"	0"
24"	TOPSOIL/FILL
16"	10YR 4/3, GRANULAR, FRIABLE BURIED "A"
32"	10YR 5/6, GRANULAR, FRIABLE, LOAMY SAND, FEW ROOTS
48"	E.S.H.W.T.
60" BOTTOM OF HOLE	10YR 5/1, FIRM, SAND, W/ REDOX FEATURES
42"	E.S.H.W.T.
60" BOTTOM OF HOLE	10YR 5/1, FIRM, SAND, W/ REDOX FEATURES

#### ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTATION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M40 ¹ 3, 357, 4, 467, 5, 56, 57, 67, 68, 7, 78, 8, 9, 10	BEGIN COMPACTION AFTER 12" (300 mm) OF MATERIAL OVER THE EMBEDMENT STONE ('B' LAYER). MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M40 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M40 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M40) STONE".  
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (230 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.  
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTATION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.  
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE #6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

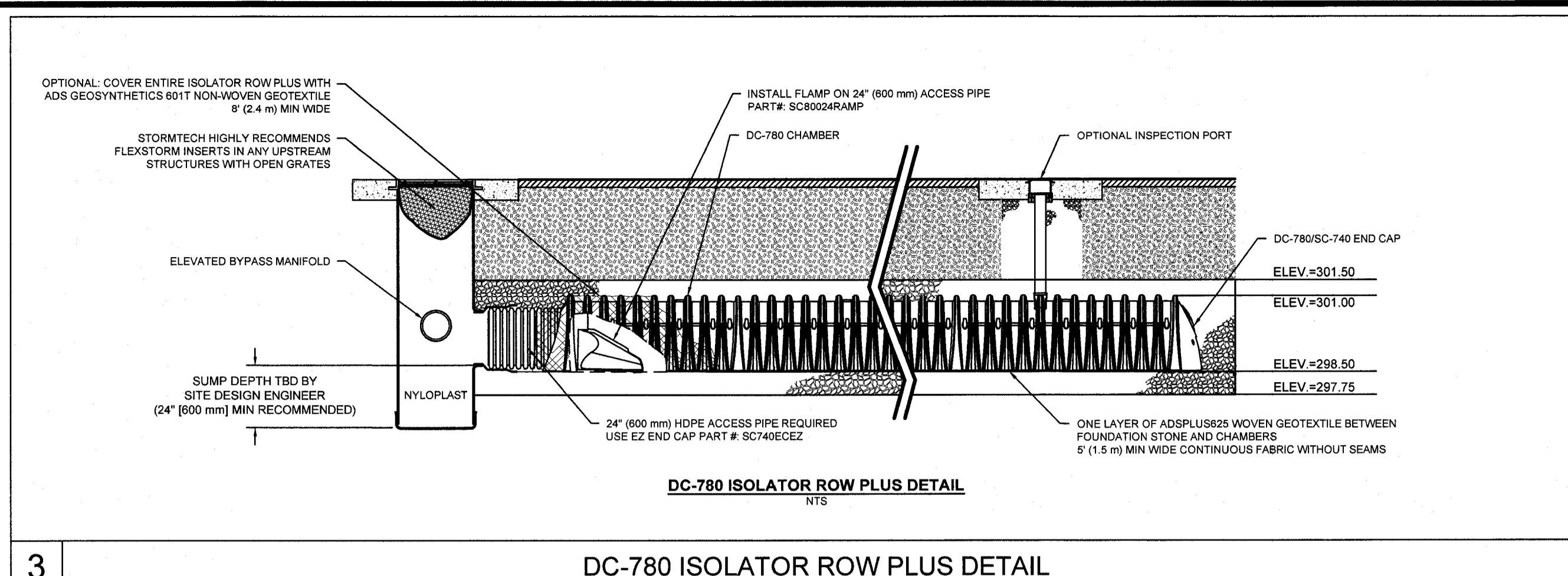


#### NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F287, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, (a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT% THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND (b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS

1

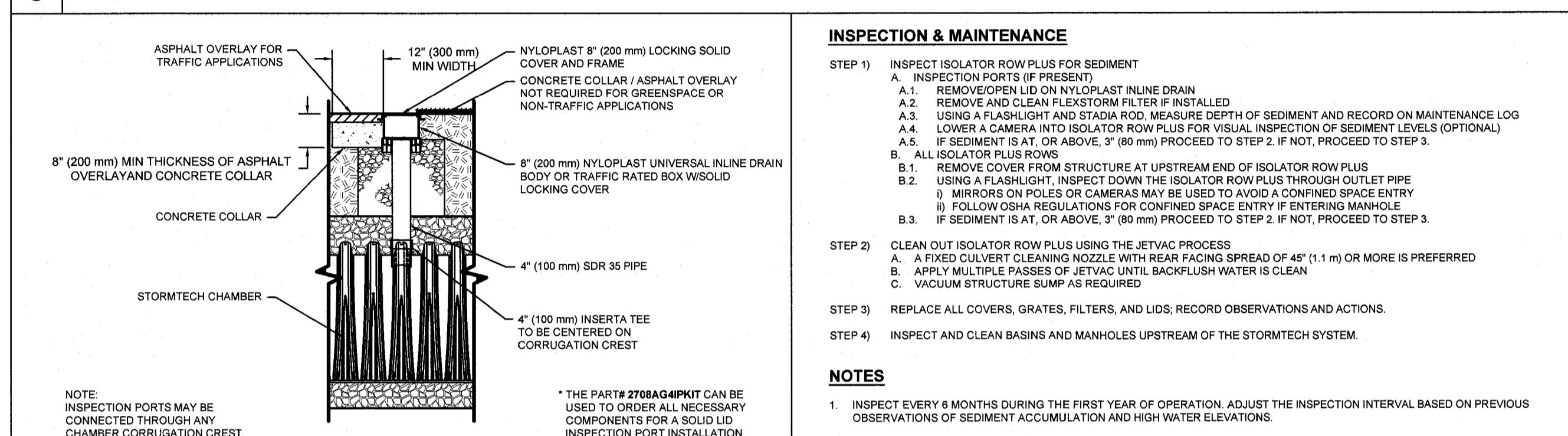
#### DC-780 CROSS SECTION DETAIL



#### DC-780 ISOLATOR ROW PLUS DETAIL

NOTES:  
1. ELEVATED BYPASS MANIFOLD  
2. STORMTECH HIGHLY RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES  
3. OPTIONAL: COVER ENTIRE ISOLATOR ROW PLUS WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE 8" (2.4 m) MIN WIDE  
4. INSTALL FLAMP ON 24" (600 mm) ACCESS PIPE PART #: SC80024RAMP (TYP 2 PLACES)  
5. DC-780 CHAMBER  
6. ELEV = 301.50  
7. ELEV = 301.00  
8. ELEV = 298.50  
9. ELEV = 297.75  
10. ONE LAYER OF ADSPLUS625 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS 8" (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

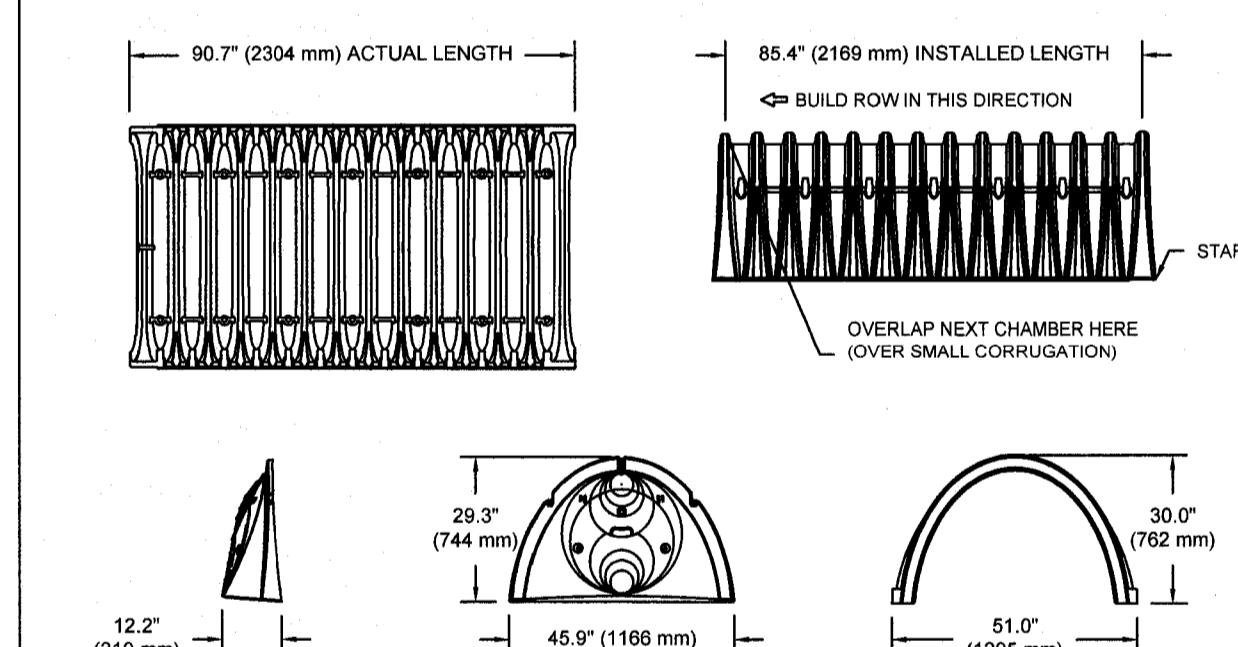
#### DC-780 ISOLATOR ROW PLUS DETAIL



#### 4" (100 mm) PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

#### 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

#### DC-780 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS	51.0" X 30.0" X 85.4"	(1295 mm) X 762 mm X 2169 mm
SIZE (W X H X H) INSTALLED LENGTH	46 CUBIC FEET	(1.30 m ³ )
CHAMBER STORAGE	78 CUBIC FEET	(2.20 m ³ )
MINIMUM INSTALLED STORAGE*	75.0 lbs	(33.4 kg)
NOMINAL END CAP SPECIFICATIONS	45.9" X 26.2" X 9.6"	(1168 mm) X 744 mm X 244 mm
SIZE (W X H X H) INSTALLED LENGTH	24 CUBIC FEET	(0.90 m ³ )
END CAP STORAGE	14.4 CUBIC FEET	(0.40 m ³ )
MINIMUM INSTALLED STORAGE**	11.7 lbs	(5.3 kg)

* ASSUMES 8" (152 mm) STONE ABOVE, 6" (152 mm) BETWEEN CHAMBERS

** ASSUMES 8" (152 mm) STONE ABOVE, 9" (229 mm) BELOW END CAPS, 6" (152 mm) BETWEEN ROWS, 12" (305 mm) BEYOND END CAPS

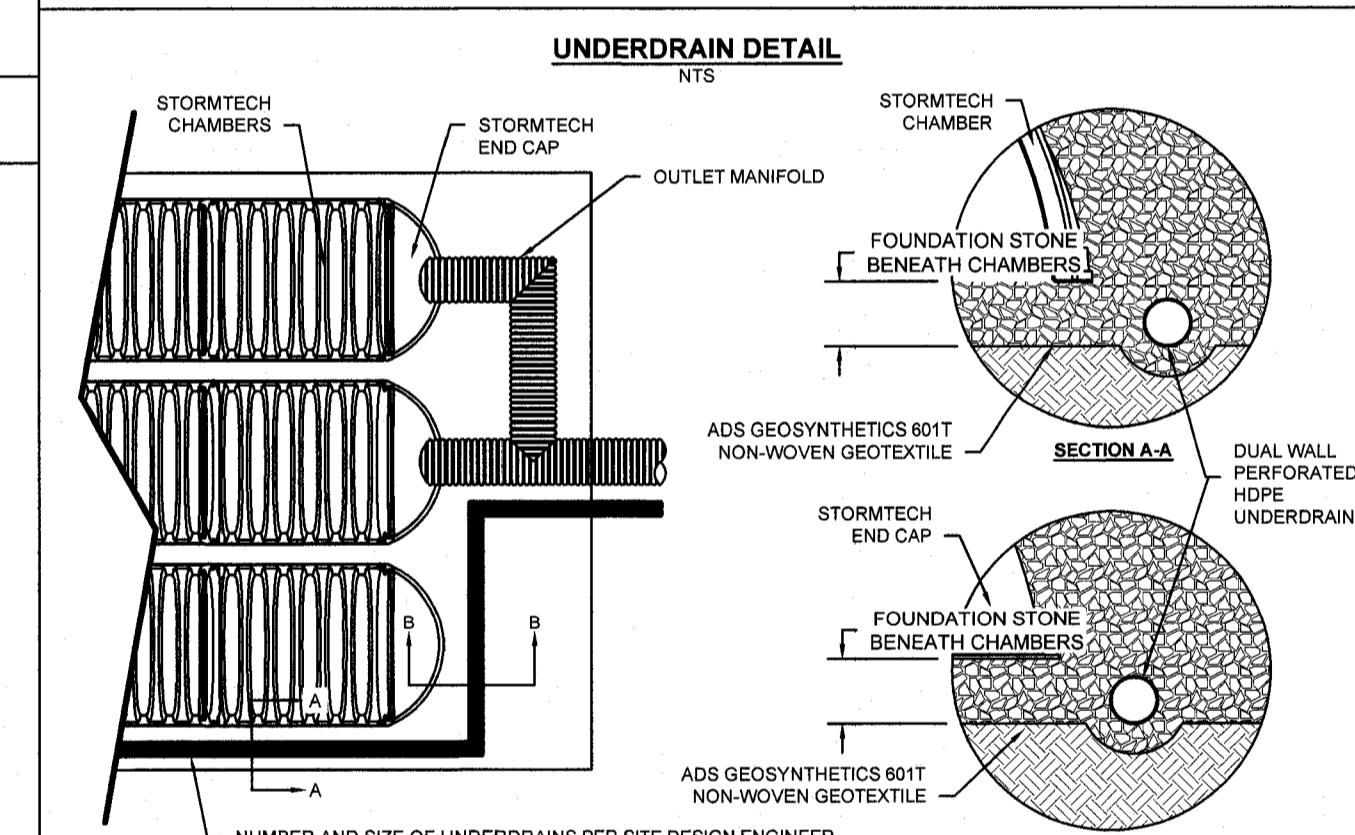
PART #	STUB	B	C
SC740EPE06TPC	6" (150 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740EPE08TPC	8" (200 mm)	18.5" (479 mm)	0.6" (15 mm)
SC740EPE09BPC			—
SC740EPE10TPC	10" (250 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EPE12TPC	12" (300 mm)	12.5" (318 mm)	1.2" (30 mm)
SC740EPE12BPC			—
SC740EPE15BPC	15" (375 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740EPE16BPC	18" (450 mm)	5.0" (127 mm)	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)		0.1" (3 mm)
SC740ECEZ*			—

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

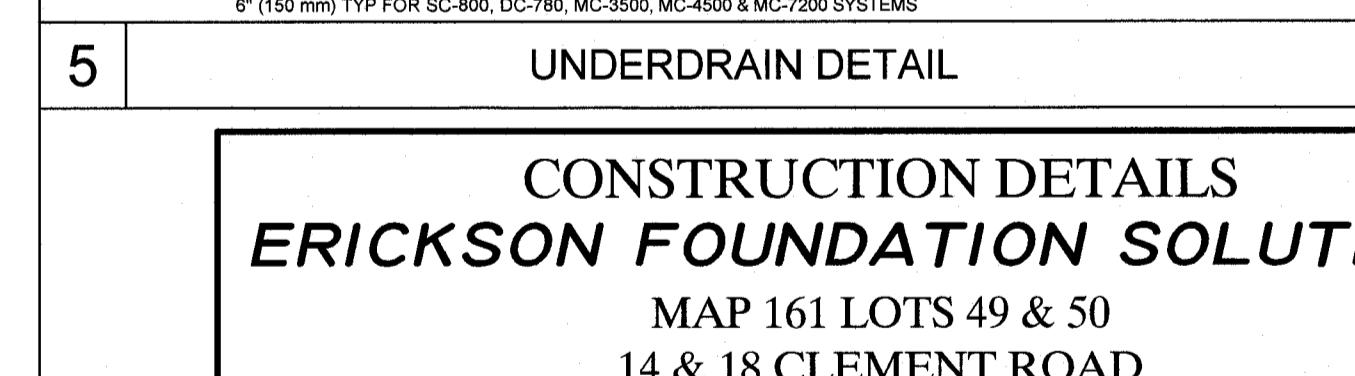
* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL; PRE-CORED END CAPS END WITH "PC"

#### DC-780 TECHNICAL SPECIFICATION



#### UNDERDRAIN DETAIL



#### CONSTRUCTION DETAILS

#### ERICKSON FOUNDATION SOLUTIONS

MAP 161 LOTS 49 & 50

14 & 18 CLEMENT ROAD

HUDSON, NEW HAMPSHIRE

HILLSBOROUGH COUNTY

OWNER OF LOT 49/APPLICANT: CLEMENT WAREHOUSE LLC

14 CLEMENT ROAD  
29 BOYD ROAD  
HUDSON, N.H. 03051

BK. 9014 PG. 1118

OWNER LOT 50: 18 CLEMENT ROAD, LLC

29 BOYD ROAD  
HUDSON, N.H. 03051

BK. 9792 PG. 977

KMA KEACH-NORDSTROM ASSOCIATES, INC.

Civil Engineering Land Surveying Landscape Architecture

10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.

## TURF ESTABLISHMENT SCHEDULE

### PURPOSE:

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

### PREPARATION AND EXECUTION:

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

### MAINTENANCE:

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

### APPLICATION RATES:

- LOAM SHALL BE APPLIED AT A MINIMUM COMPACTED THICKNESS OF 4 INCHES.
- LIME SHALL BE APPLIED AT A RATE OF 75 TO 100 POUNDS PER 1,000 S.F.
- FERTILIZER SHALL BE APPLIED AT A RATE OF 30 POUNDS PER 1,000 S.F. IT IS RECOMMENDED THAT THE SOIL BE TESTED PRIOR TO APPLYING ANY FERTILIZERS TO DETERMINE WHAT LEVELS AND RATES ARE NECESSARY.
- SEED FOR TURF AREAS SHALL BE APPLIED AT A RATE OF AT LEAST 80 POUNDS PER ACRE OR 2 POUNDS PER 1,000 S.F.
- TEMPORARY SEED MIXTURE SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1,000 S.F.
- SEED MIXTURE FOR SLOPE AREAS SHALL BE APPLIED AT A RATE OF 80 POUNDS PER ACRE OR 2 POUNDS PER 1,000 S.F.
- SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS SHALL BE APPLIED AT A RATE OF 70 POUNDS PER ACRE OR 1.6 POUNDS PER 1,000 FOOT.
- MULCH SHALL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 S.F.

### MATERIALS:

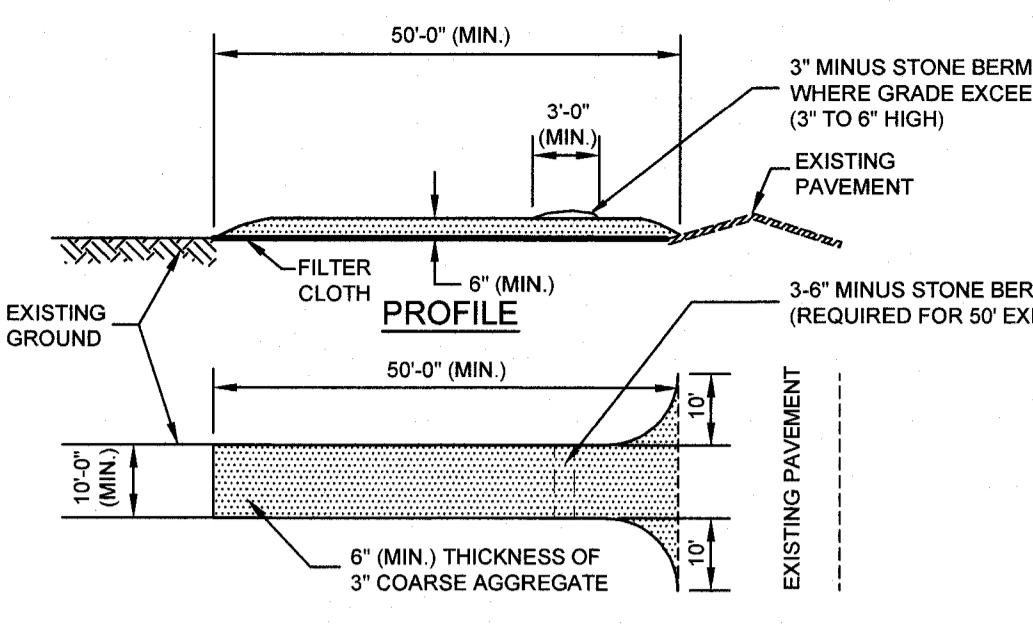
- LOAM USED FOR TOPSOIL SHALL BE FRABLE, FERTILE, NATURAL FREE-DRAINING LOAM; FREE OF ROOTS, GRASS, STICKS, WEEDS, CLAY, SOD LUMPS, DEBRIS AND STONES LARGER THAN 1 INCH IN ANY DIMENSION. SOIL SHAL NOT BE EXCESSIVELY ACID OR ALKALINE AND CONTAIN NO TOXIC MATERIALS.
- LIME SHAL BE GROUND LIMESTONE CONTAINING NO LESS THAN 95% CALCIUM AND MAGNESIUM CARBONATES.
- FERTILIZER SHALL BE NO PHOSPHORUS, SLOW RELEASE.
- SEED MIXTURE FOR LAWN AREAS SHALL BE 99% PURE LIVE SEED AND CONSIST OF THE FOLLOWING:
  - 25% CREEPING RED FESCUE
  - 25% CREEPING BLUEGRASS
  - 25% REDTOP
  - 25% MANHATTAN PERENNIAL RYEGRASS
- TEMPORARY SEEDING MIXTURE SHALL BE AN APPROVED CONSERVATION MIX OR CONSIST OF THE FOLLOWING:
  - 15% BLACKWELL OR SHELTER SWITCHGRASS
  - 30% NIAGARA OR KAW BIG BLUESTEM
  - 15% NE-27 OR BLAZE SAND LOVGRASS
  - 10% CREEPING RED FESCUE
- INOCULUM SPECIFIC TO SHOWY TICK TREFOL MUST BE USED WITH THIS MIXTURE. IF SEEDING BY HAND, A STICKING AGENT SHALL BE USED. IF SEEDING WITH A HYDROSEEDER, USE FOUR TIMES THE RECOMMENDED AMOUNT OF INOCULUM.
- SEED MIXTURE FOR SLOPE AREAS SHALL BE 99% PURE LIVE SEED AND SHALL CONSIST OF THE FOLLOWING:
  - 30% CREEPING RED FESCUE
  - 40% PERENNIAL RYE GRASS
  - 15% REDTOP
  - 15% SHOWY TICK TREFOL
- IN ADDITION TO THE SPECIFIED ABOVE, VIRGINIA WILD RYE SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1. VIRGINIA WILD RYE SHALL BE APPLIED AT A RATE OF 10 POUNDS PER ACRE AND INOCULUM SPECIFIC TO VIRGINIA WILD RYE MUST BE USED.
- SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS, INCLUDING DETENTION BASINS AND VEGETATED TREATMENT SWALES SHALL CONSIST OF THE FOLLOWING:
  - 25% CREEPING RED FESCUE
  - 15% SWITCH GRASS
  - 15% FOX SEDGE
  - 15% CREEPING BENTGRASS
  - 15% CREEPING RED FESCUE
  - 20% WILLOW LEAF SEDGE
- STRAW USED FOR MULCH SHALL CONSIST OF MOWED AND PROPERLY CURED GRASS OR LEGUME MOWINGS, FREE FROM WEEDS, TWIGS, DEBRIS OR OTHER DELETERIOUS MATERIAL AND ROT OR MOLD.
- NATIVE PLANTINGS SHOULD BE USED FOR ALL NEW GREENSCAPES.
- ALL WILDFLOWER SEEDING MIXES SHOULD BE FREE OF INVASIVE SPECIES.

### CONSTRUCTION SEQUENCE

- THE CONTRACTOR WILL ENSURE THAT NO MORE THAN 5 ACRES IS DISTURBED AT ANY ONE TIME.
- PROTECT AND PRESERVE THE EXISTING VEGETATION WITHIN THE CONSTRUCTION AREA AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION. ALL TREES, BRANCHES AND OTHER VEGETATIVE MATERIALS SHALL BE PROPERLY DISPOSED OFF SITE BY THE CONTRACTOR. THIS PROJECT IS MANAGED TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- PRIOR TO COMMENCEMENT OF ANY EARTHMOVING OPERATIONS, ALL APPLICABLE TEMPORARY EROSION CONTROL MEASURES, INCLUDING SPECIFIED PERIMETER SILTATION FENCING AND STABILIZED CONSTRUCTION EXIT SHALL BE IN PLACE AS SHOWN ON THE PROJECT PLANS.
- COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR ORGANIC DEBRIS SHALL BE PROPERLY DISPOSED BY THE CONTRACTOR. NATIVE ORGANIC SOIL MATERIALS SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED WITHIN AREAS OUT OF THE WAY OF OTHER CONSTRUCTIONS ACTIVITIES AND DRAINAGE FLOW. STOCKPILES SHALL BE TEMPORARILY SEEDED WITH WINTER RYE AND BE SURROUNDED WITH STRAW BALES AND/OR FABRIC SILTATION FENCE IN ORDER TO PREVENT LOSS OF SOIL.
- DETERMINE EARTHMOVING OPERATIONS, COMMENCING WITH WORK NEEDED TO BALANCE SITE AND FACILITATE BUILDING FOUNDATION AND RETAINING WALL CONSTRUCTION. PERMANENT DOWNSLOPE WORK SHALL BE PROTECTED FROM UPGRADE STORMWATER FLOW BY THE CONSTRUCTION OF TEMPORARY EARTHEN DIKES OR EXCAVATED SWALES.
- ONCE BUILDING FOUNDATION WORK IS UNDERWAY, CONTINUE EARTHMOVING OPERATIONS UNTIL DESIGN SUBGRADE IS ACHIEVED.
- DETENTION BASINS/SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE.
- DITCHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL SOILS ARE STABILIZED.
- INSTALLED SWALE SYSTEMS OR OTHER UTILITIES FLOW TO HIGH. INCOMPLETE WORK SHALL BE PROTECTED FROM SILTATION BY THE USE OF STABILIZED BARRIER SHEETS AND SQUEES IN THE SITE HAS BEEN FULLY STABILIZED.
- DEEPLY TILL THE BASE OF THE INfiltration AREA TO REMOVE INfiltration RATES FOLLOWED BY A PASS WITH A LEVELING DRAG. STORMWATER FLOWS ARE NOT TO BE DIRECTED TO THE INfiltration AREA UNTIL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- PLACE GRAVEL AND CRUSHED GRAVEL OVER PROPOSED DRIVEWAY, WALKS AND PARKING AREAS AND COMPACT IN SPECIFIED LIFT THICKNESS.
- COMPLETE EXCAVATION/STABILIZATION GRADING ACTIVITIES. WHEN COMPLETE, IMMEDIATELY BEGIN TOPSOILING PROPOSED TURF AREAS USING STOCKPILED LOAM SUPPLEMENTED WITH BROW LOAM, IF NECESSARY, TO LEAVE A THICKNESS OF 4 INCHES OF FRIBLE LOAM.
- FINE GRADE ALL FUTURE TURF AREAS AND HYDROSEED WITH THE SPECIFIED SEED MIXTURE IMMEDIATELY AFTER FINE GRADING IS COMPLETED. ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- CONTINUE TO MONITOR AND RECTIFY MINOR SITE AND SLOPE EROSION UNTIL ENTIRE SITE APPEARS TO BE COMPLETELY STABILIZED AND VEGETATED WITH A HEALTHY STAND OF TURF OR GROUND COVER. MAINTAIN SPECIFIED SILTATION/EROSION CONTROL MEASURES THROUGH ONE WINTER.
- INSTALL THE SPECIFIED WEARING COURSE OF PAVEMENT OVER THE BINDER COURSE.
- COMPLETE INSTALLATION OF LANDSCAPING, SIGNAGE AND OTHER SITE AMENITIES.

### CERTIFICATE OF OCCUPANCY PHASING PLAN AGREEMENT:

- THE FOLLOWING SITE IMPROVEMENTS ARE REQUIRED FOR INDIVIDUAL CERTIFICATES OF OCCUPANCY AS CONSTRUCTION PROGRESSES:
  - ROAD BASE COAT;
  - STOP SIGNS AND TEMPORARY STRIPPING OF STOP BARS;
  - GRADING AND DRAINAGE;
  - LOAM AND SEED THAT SUPPORTS THE SUBJECT UNIT OF THE CERTIFICATE OF OCCUPANCY;
  - TEMPORARY STRIPPING, VISITOR PARKING; AND
  - UTILITIES
- EROSION CONTROL NOTES
  - EXPOSED EARTHWORK SHALL BE CONFINED TO AS LIMITED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN FIVE (5) ACRES OF SITE AREA, IN AN UNSTABLE CONDITION UNLESS AN EMERGENCY, BE EXPOSED TO THE ELEMENTS. DURING THE DURATION OF CONSTRUCTION, THE OPEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING FORTY-FIVE (45) CALENDAR DAYS.
  - TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELD CONDITION, OR FIELD OPERATION OF THE INDIVIDUAL SITE CONTRACTOR, MAY WARRANT. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OF RAINFALL OR MORE. THEY SHALL BE CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATING MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
  - ALL DISTURBED AREAS DESIGNATED TO BE TURF, SHALL RECEIVE A MINIMUM APPLICATION OF 4 INCHES OF LOAM (COMPACTED THICKNESS). PRIOR TO PLANTING, SEEDING AND SOWING.
  - EROSION CONTROL AND STABILIZATION SHALL BE IN ACCORDANCE WITH HILLSBOROUGH COUNTY CONSERVATION DISTRICT-VEGETATIVE STANDARD AND SPECIFICATIONS FOR SEEDING GRASSES AND LEGUMES FOR LONG-TERM COVER ON EXCAVATED AREAS.
  - ALL SWALES AND DITCHLINES SHALL BE PERIODICALLY CLEANED OF DEPOSITED SOIL TO SOSTAIN AN EFFECTIVE GRADE AND CROSS SECTION. ALL SWALES AND DITCHLINES SHALL BE FULLY STABILIZED PRIOR TO HAVING STORMWATER DIRECTED TOWARDS THEM.
  - IN THE EVENT THAT, DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
  - AN AREA SHALL BE CONSIDERED UNSTABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
    - NO CONCRETE GELS ARE INSTALLED IN AREAS TO BE PAVED;
    - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
    - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
    - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
  - DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD, IN ACCORDANCE WITH ENV-A 1000.
  - IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTAL EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS WOULD REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION.
  - THE TURF RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION.
  - AREAS HAVING FINISH GRADE SLOPES OF 3:1 OR STEEPER, SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION."
  - DETENTION BASINS/SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE.
  - DITCHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
  - TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL SOILS ARE STABILIZED.
  - ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
  - ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.



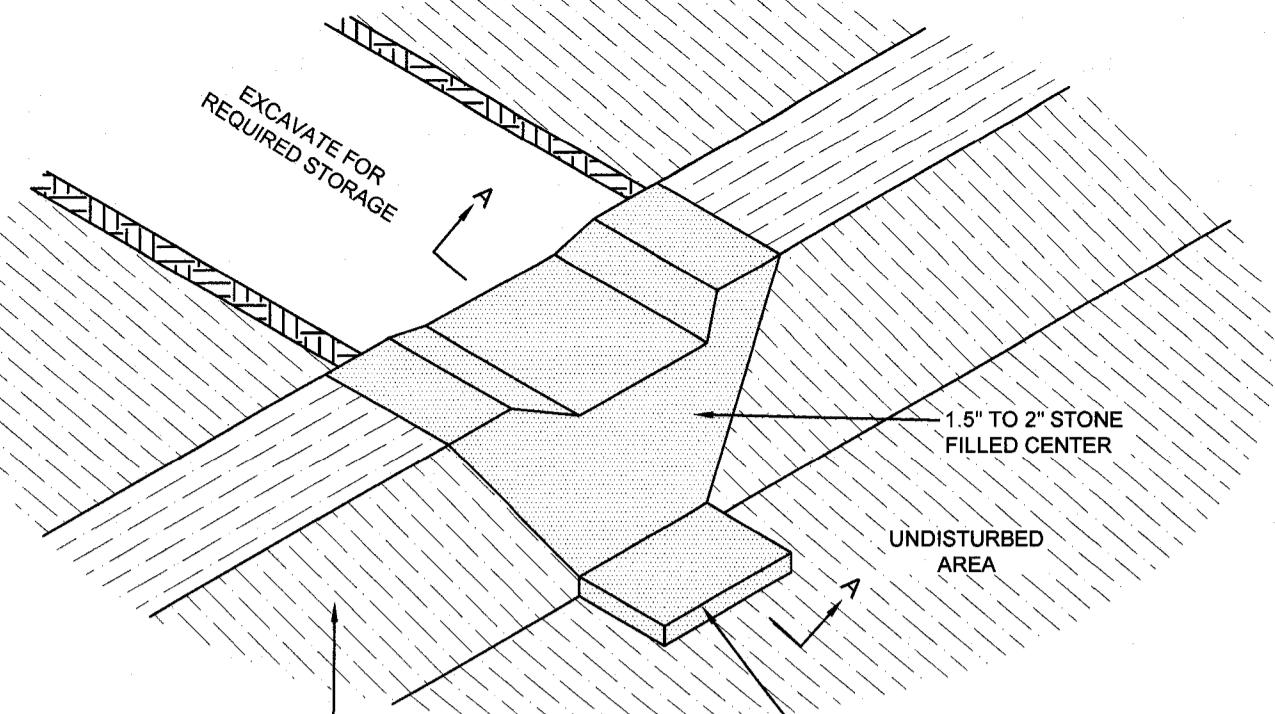
PLAN VIEW

### MAINTENANCE:

- MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE Voids IN THE CRUSHED STONE AND THE EFFECTIVENESS OF THE CRUSHED STONE PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOPDRESSED WITH NEW CRUSHED STONE OR COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
- IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

### CONSTRUCTION SPECIFICATIONS:

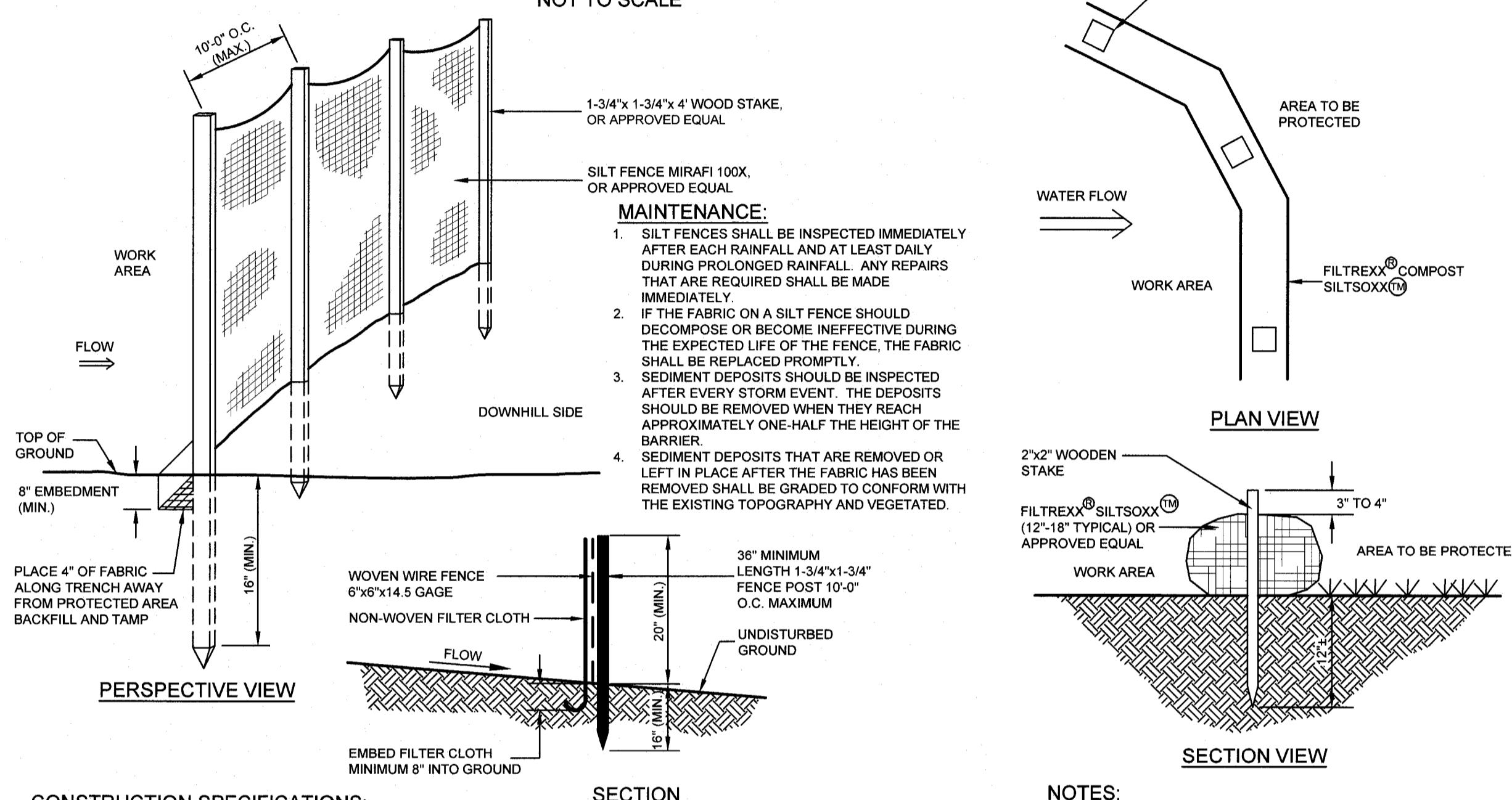
- STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 3 INCH MINIMUM STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THE THICKNESS OF THE STONE FOR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



ISOMETRIC VIEW

### STABILIZED CONSTRUCTION EXIT DETAIL

NOT TO SCALE

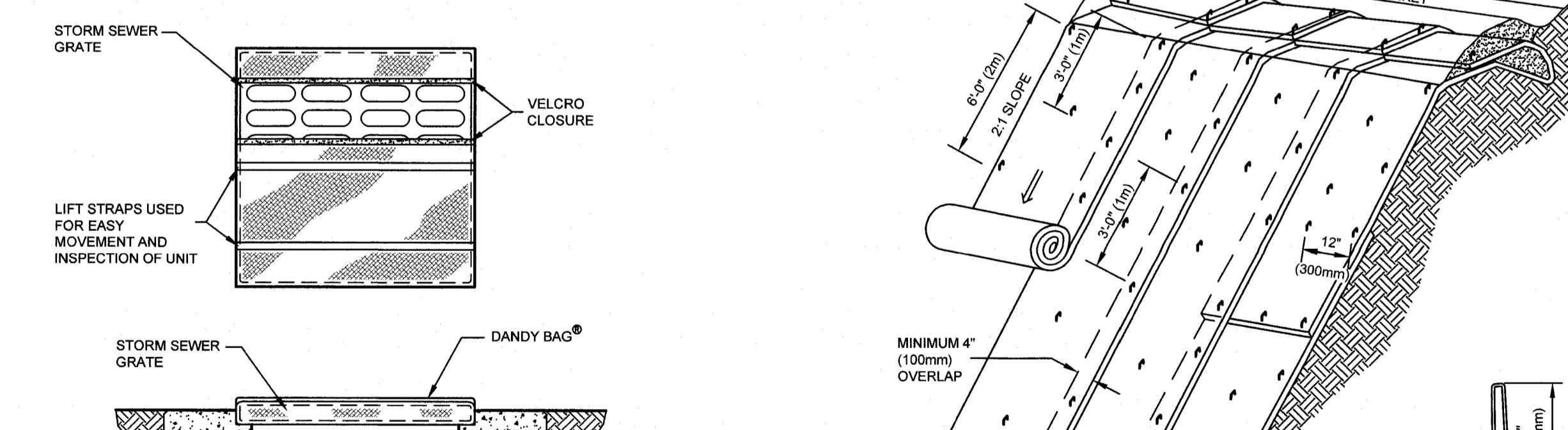


### CONSTRUCTION SPECIFICATIONS:

- 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 TIE OR STAPLE.
- STAPLE CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MIDDLE 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 AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

### SILT FENCE DETAIL

NOT TO SCALE



### HI-FLOW DANDY BAG® (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAD TENSILE STRENGTH	ASTM D 4632	KN (lb)	1.62 (385) x 0.89 (200)
GRD TENSILE ELONGATION	ASTM D 4632	%	24 x 10
PUNCTURE STRENGTH	ASTM D 4533	KN (lb)	0.34 (76)
MULLEN BURST STRENGTH	ASTM D 3765	KPa (psi)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (lb)	0.51 (115) x 0.33 (75)
UV RESISTANCE	ASTM D 4751	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	1/min/m ² (g/min/m ² )	5937 (145)
PERMITTIVITY	ASTM D 4491	Sec ⁻¹	2.1

DANDY BAG®

NOT TO SCALE

### NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD