BLUEBIRD STORAGE

SITE PLAN # 17-21 STAFF REPORT #4

March 9, 2022

SITE: 196-202 Central Street; Tax Map 176 Lot 021-000, 022-000, 023-000

ZONING: Business (B)

PURPOSE OF PLAN: Proposes a 39,338-SF self-storage building with associated parking, drives, utilities, and stormwater ponds.

PLAN UNDER REVIEW: Non-Residential Site Plan, Bluebird Self Storage, Map 176 Lots 21, 22, & 23, 196-202 Central Street, Hudson, New Hampshire; prepared by Keach-Nordstrom Associates, Inc., 10 Commerce Park North, Suite 3B, Bedford, NH 03110; prepared for Bluebird Self Storage LLC, 125 Ocean Road, Greenland, NH 03840; consisting of 23 sheets with an additional cover page and notes 1-43 on Sheet 1; dated December 20, 2021, last revised February 28, 2022.

ATTACHMENTS

- A. Additional waiver request signature block location.
- B. CAP Fee Worksheet

APPLICATION TRACKING:

- September 9, 2021 The Zoning Board of Adjustment granted a variance to allow the construction of a self-storage facility in the Business Zone.
- December 21, 2021 Site plan application received.
- January 19, 2022 Public hearing held; waiver granted; continued to February 9, 2022.
- January 29, 2022 Site walk conducted.
- February 9, 2022 Public hearing scheduled; deferred.
- February 14, 2022 Revised plan set received.
- February 23, 2022 Public hearing held; waivers granted; continued to March 9, 2022.
- March 9, 2022 Public hearing scheduled.

WAIVER REQUESTS:

- 1. § 275-8.C(2)(g), parking requirement for industrial uses. [GRANTED 1/19/22]
- 2. § 276-11.1.(12)(c), buffer between residential use or zoning district and any improved part of the nonresidential development. [GRANTED 2/23/22]
- 3. § 275-8.C(6)(a), loading space requirement. [GRANTED 2/23/22]

SP# 17-21 Staff Report #4 Page 1 of 3

4. § 276-11.1.B(4)(b), approval block location. [pending]

COMMENTS:

UPDATE

The meeting was continued for reasons of the approval block location, signage location and to receive any final comments from the Fire Department or Engineering Department.

- 1. **Waivers -** The waivers for the required number of parking spaces, number of loading spaces, and buffer between residential use or zoning district and any improved part of the nonresidential development were granted by the Board at the two previous meetings. The applicant is requesting an additional waiver for the approval block location.
- Signage The revised plan added a placeholder pedestal sign near the driveway entrance. As Staff noted during the previous meeting, the Applicant's desired building signage – as shown on renderings provided and described by the Applicant, may require a variance. Hudson's sign ordinance currently only allows one wall sign per tenant [note: this is an area worthy of consideration for amendment].
- 3. **Engineering** the drainage items raised by the Engineering Department have been addressed to the department's satisfaction.
- 4. **Fire** the Fire Department reviewed the revised plans and have confirmed that there is adequate maneuverability even without a hammerhead turnaround.

RECOMMENDATIONS:

The Board should consider the Applicant's remaining waiver request for approval block location. If the requested waiver is granted, and if the Board finds the remaining items acceptable to be administratively reviewed and approved, Staff finds the application ready for the Board's final decision.

DRAFT MOTIONS:

<u>CONTINUE</u> the public hearing to a date certain:

I move to defer the public hearing for site plan application for 196-202 Central Street; Tax Map 176 Lots 21, 22, 23 to date certain, _____.

Motion by:	Second:	Carried/Failed:

SP# 17-21 Staff Report #4 Page 2 of 3

<u>GRANT</u> a waiver:

I move to grant a waiver from § 276-11.B(4)(b), approval block location, based on the Board's discussion, the testimony of the Applicant's representative, and in accordance with the language included in the submitted Waiver Request Form for said waiver.

Motion by: _____Second: _____Carried/Failed: _____

<u>APPROVE</u> the site plan application:

I move to approve Non-Residential Site Plan, Bluebird Self Storage, Map 176 Lots 21, 22, & 23, 196-202 Central Street, Hudson, New Hampshire; prepared by Keach-Nordstrom Associates, Inc., 10 Commerce Park North, Suite 3B, Bedford, NH 03110; prepared for Bluebird Self Storage LLC, 125 Ocean Road, Greenland, NH 03840; consisting of 23 sheets with an additional cover page and notes 1-43 on Sheet 1; dated December 20, 2021, last revised February 28, 2022; subject to, and revised per, the following stipulations:

- 1. All stipulations of approval shall be incorporated into the Development Agreement, which shall be recorded at the HCRD, together with the Plan.
- 2. All improvements shown on the Plan, including notes 1-43 on Sheet 1, shall be completed in their entirety and at the expense of the applicant or the applicant's assigns.
- 3. Prior to the issuance of a final certificate of occupancy, an LLS Certified "as-built" site plan shall be provided to the Town of Hudson Land Use Division, confirming that the site conforms to the Plan approved by the Planning Board.
- 4. A cost allocation procedure (CAP) amount of \$29,503.50 shall be paid prior to the issuance of a Certificate of Occupancy.
- 5. The onsite drainage system shall be constructed and maintained in compliance with NHDES requirements for such systems.
- 6. Prior to the Planning Board endorsement of the Plan, it shall be subject to final administrative review by Town Planner and Town Engineer.
- Construction activities involving the subject lot shall be limited to the hours between 7:00
 A.M. and 7:00 P.M. No exterior construction activities shall be allowed on Sundays.
- 8. Hours of refuse removal shall be exclusive to the hours between 7:00 A.M. and 7:00 P.M., Monday through Friday only.

Motion by:	Second:	Carried/Failed:
· · · · · · · · · · · · · · · · · · ·		

SP# 17-21 Staff Report #4 Page 3 of 3

WAIVER REQUEST FORM

Name of Subdivision/Site Plan: Bluebird Self Storage

Street Address: 196-202 Central Street

I Bridget Souza		hereby request that the Planning Board
waive the requirements of item	276-11.1.B(4)(b)	of the Hudson Land Use Regulations
in reference to a plan presented by	Keach-Nordstrom A	ssociates, Inc.
	(name of surveyor and e	ngineer) dated February 24, 2022 for
property tax map(s) 176	and lot(s) 21, 22, & 2	23 in the Town of Hudson, NH.

As the aforementioned applicant, I, herein, acknowledge that this waiver is requested in accordance with the provisions set forth in RSA 674:36, II (n), i.e., without the Planning Board granting said waiver, it would pose an unnecessary hardship upon me (the applicant), and the granting of this waiver would not be contrary to the spirit and intent of the Land Use Regulations.

Hardship reason(s) for granting this waiver (if additional space is needed please attach the appropriate documentation hereto):

The requirement of the location of the approval block in the lower left hand corner of

the plan inhibits the ability to show the site at a scale that provides more detail.

Relocating the approval block on the plan set allows for a clearer view of detail on the

Site plan and Grading & Drainage plan.

Reason(s) for granting this waiver, relative to not being contrary to the spirit and intent of the Land Use Regulations: (if additional space is needed please attach the appropriate documentation hereto):

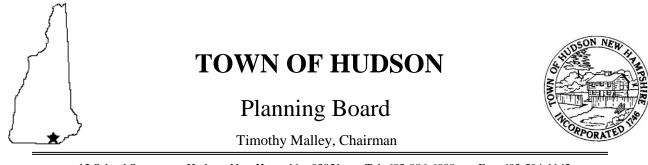
The spirit and intent of the Land Use Regulations are maintained as a waiver for the

regulation would not put the Town or Community in harm or pose as a hazard to

anyone.

Signed: Applicant or Authorized Agent

Page 6 of 8 Site Plan Application - Hudson NH



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-594-1142

CAP FEE WORKSHEET - 2022

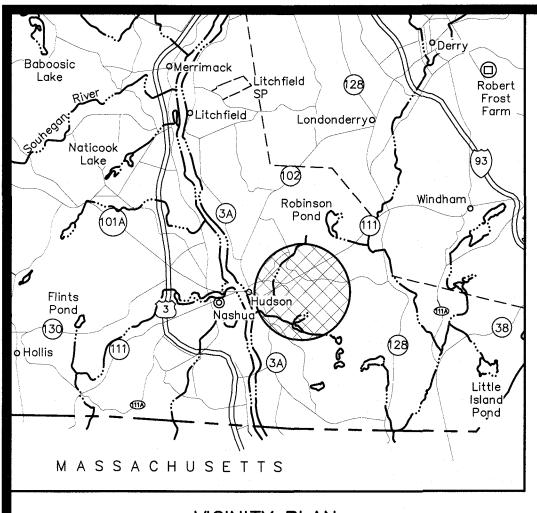
Date <u>:</u>	<u>02-16-22</u> Zo	ne # <u>1</u> Map/L	ot: <u>176/Lots 021, 022</u> 196-202 Central	
Project N	ame: Blue	bird Self-Storage		
Proposed	ITE Use #1:	Warehousi	ng	
Proposed	Building Area (net square footage):	39,338	<u>S.F.</u>
CAP FEE	CS: (ONE CHEC	K NEEDED)		
1.	(Bank 09) 2070-701	Zone 1 (\$0.75 per sf X 39,338 s	<u>\$ \$29,503.50</u> sf)	

Check should be made payable to the <u>Town of Hudson</u>.

Thank you,

Brooke Dubowik

Planning Administrative Aide



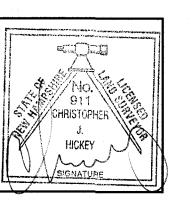
VICINITY PLAN NOT TO SCALE

NON-RESIDENTIAL SITE PLAN BLUEBIRD SELF STORAGE MAP 176 LOTS 21,22, & 23 196-202 CENTRAL STREET HUDSON, NEW HAMPSHIRE

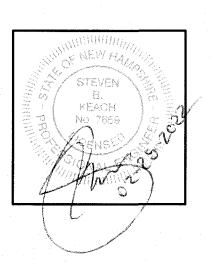
APPLICANT: BLUEBIRD SELF STORAGE 125 OCEAN ROAD GREENLAND, NH 03840

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

SITE REVIEW	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
REGULATIONS OF THE HUDSON PLANNING BOARD,	
THE SITE PLAN APPROVAL	
GRANTED HEREIN EXPIRES ONE YEAR FROM DATE OF APPROVAL	SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.





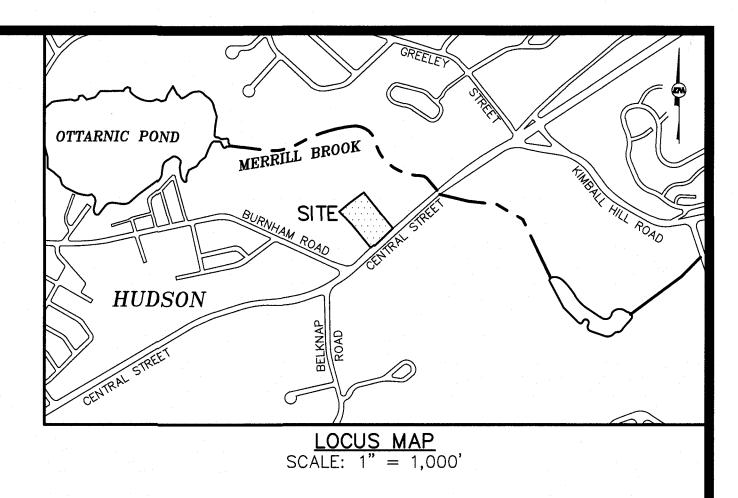


KEACH-NORDSTROM ASSOCIATES, INC. Civil Engineering Land Surveying Landscape Architecture 0 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-288

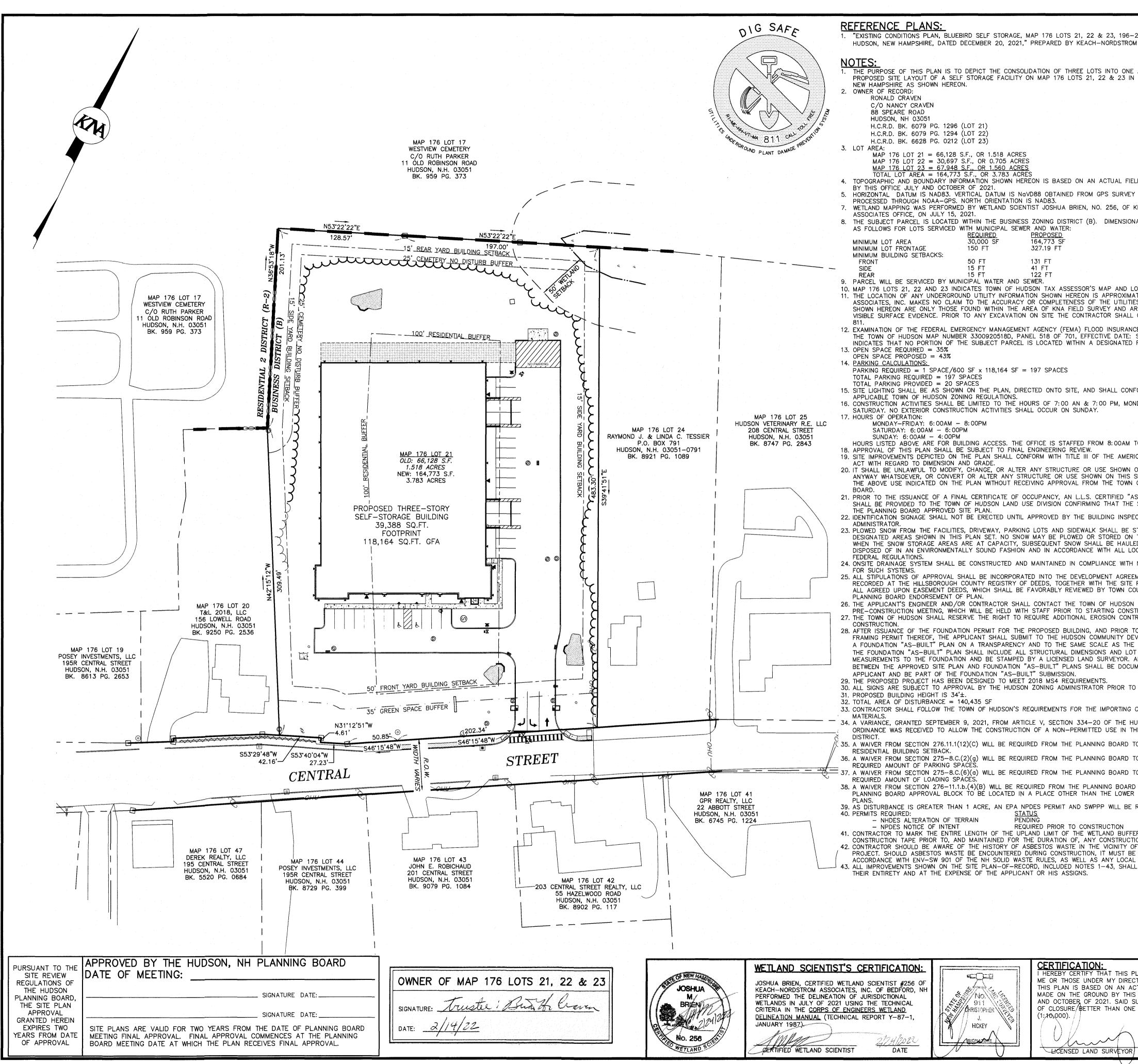
DECEMBER 20, 2021 REVISED: FEBRUARY 28, 2022 PROJECT NO. 21-0709-3

SHEET TITLE

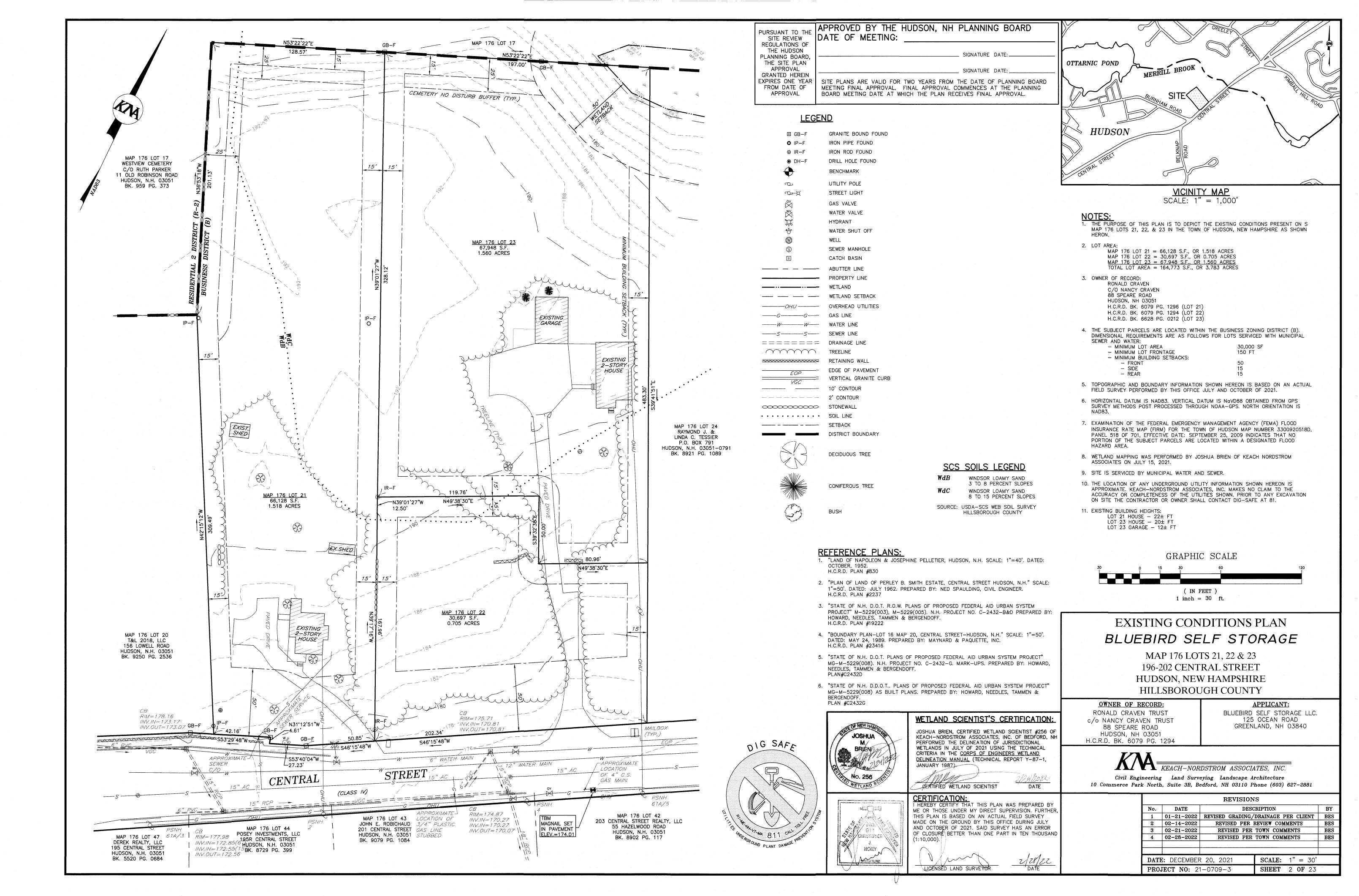
MASTER SITE PLAN EXISTING CONDITIONS P REMOVALS/DEMOLITION NON-RESIDENTIAL SITE GRADING AND DRAINAGE SPOT GRADE PLAN UTILITY PLAN EROSION CONTROL PLAN LANDSCAPE PLAN LIGHTING PLAN FIRE TRUCK TURNING P SIGHT DISTANCE PLAN & SEWER PROFILE DRAINAGE PROFILES CONSTRUCTION DETAILS

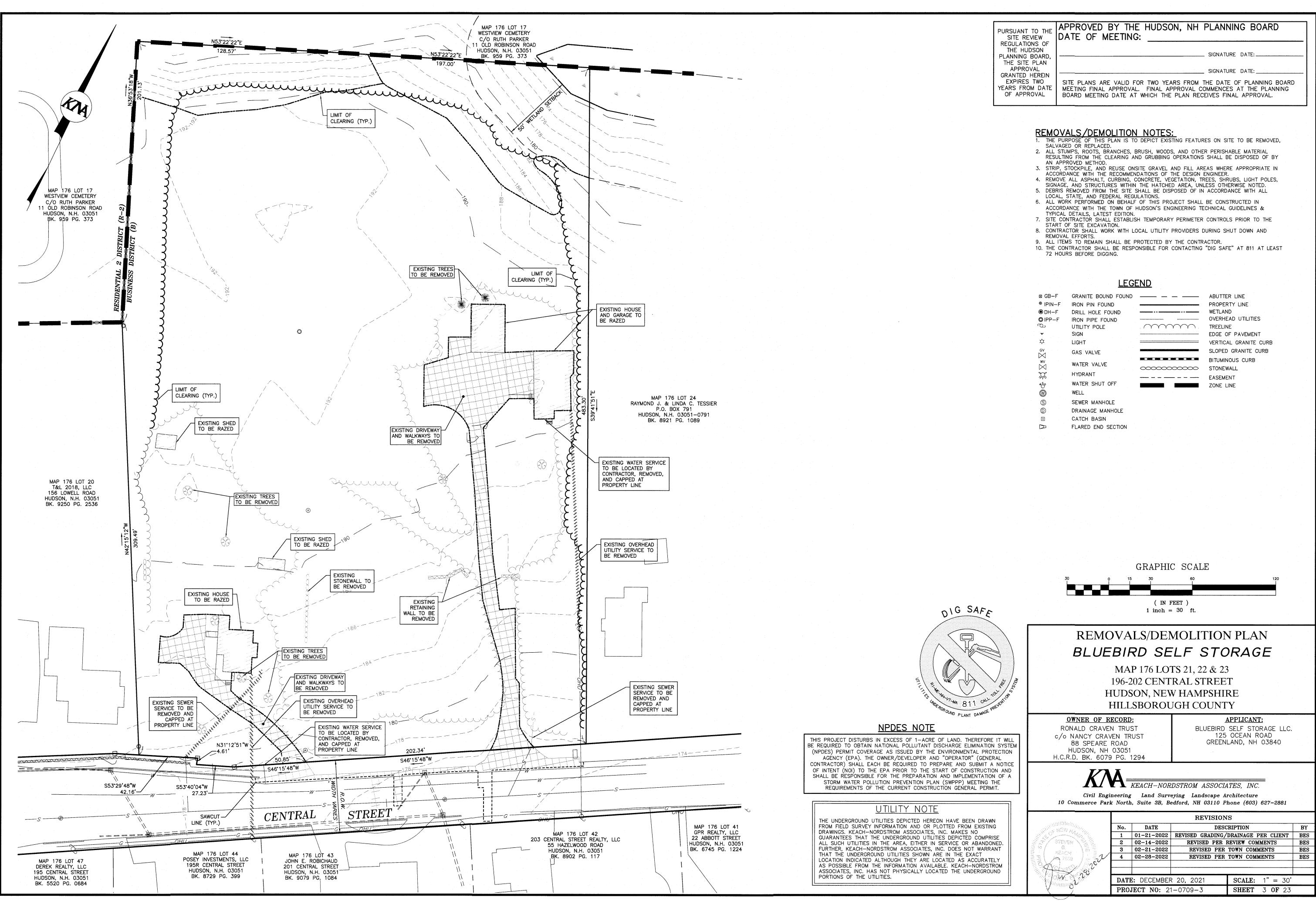


	SHEET No.
	1
PLAN	2
PLAN	3
PLAN	4
E PLAN	5
	6
	7
N A A A A A A A A A A A A A A A A A A A	8
	9
	10-11
PLAN	12
& PROFILE	13
	14
	15
	16-23



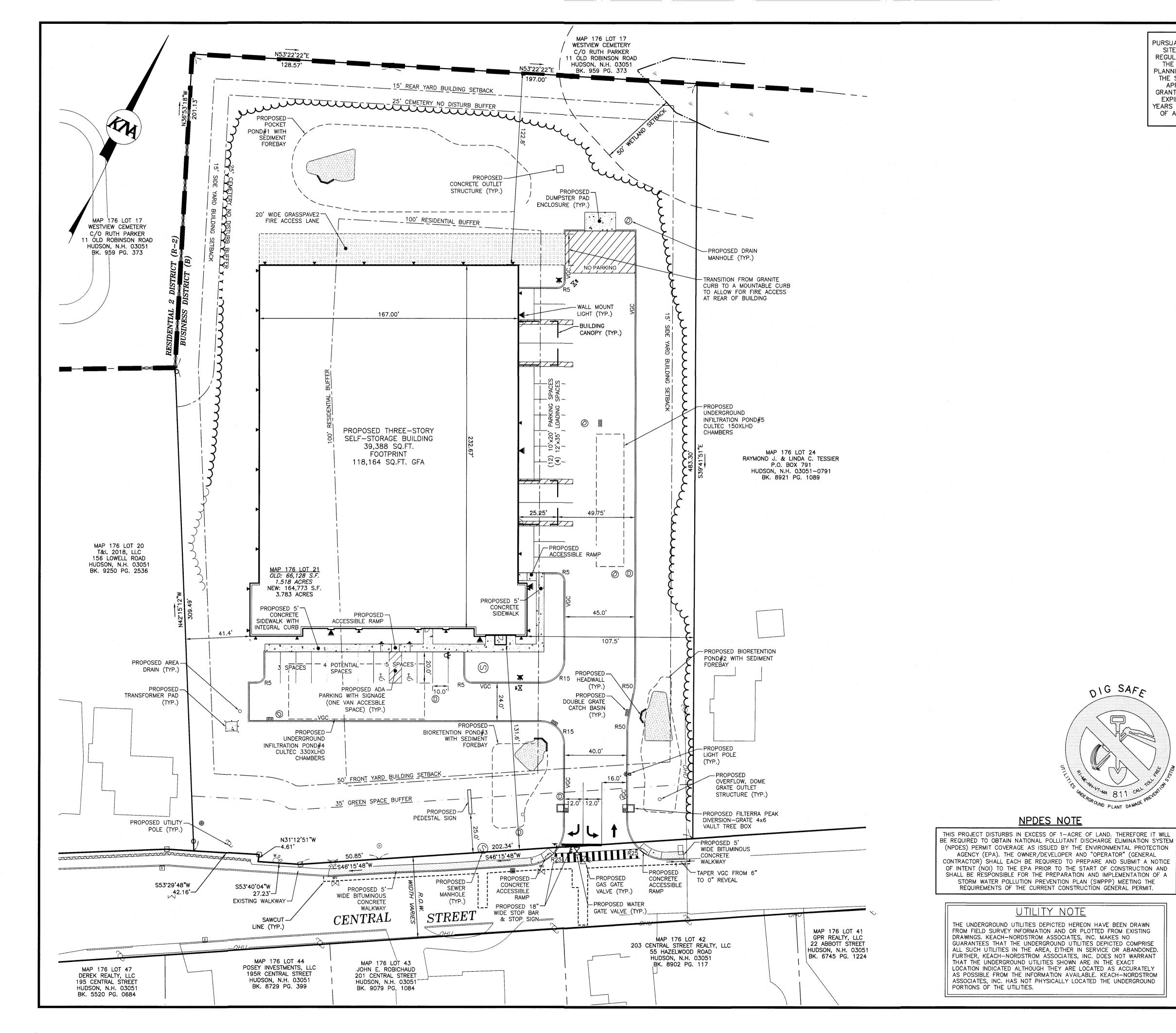
					11 17	
-202 CENTRAL STREET,				GREELEY		
DM ASSOCIATES, INC.	form	C C				
E AND TO DEPICT THE N THE TOWN OF HUDSON,	OTTARNIC POND	MERRILL BI	ROOK		J. S.	PC
			\wedge	\sim	THE FL	
		BURNHAM ROAL	E	STREET	All All	POAD
		ROAL	CENTR	_ P*		
				and and an and a second se Second second		
		BELKNAP	ROAD			7
ELD SURVEY PERFORMED	TRAL STREE	BEL		\bigcirc		
KEACH NORDSTROM	CEN	G		·		
NAL REQUIREMENTS ARE		<u>V</u>	CINITY _E: 1" =	<u>MAP</u>		
		304	-	- 1,000		
LOT NUMBERS.		LEGENI □ GB-F		OUND FOUND		
IATE. KEACH-NORDSTROM IES SHOWN. UTILITIES ARE SOLELY BASED UPON		◎ IP-F	IRON PIN	FOUND		
L CONTACT DIG-SAFE AT NCE RATE MAP (FIRM) FOR		● IP-S W/CAP	IRON PIN UTILITY PC	SET WITH CAP DLE		
SEPTEMBER 25, 2009 FLOOD HAZARD AREA.		X X	STREET LI			
		₩X ©	WATER VA SEWER MA			
			DRAINAGE CATCH BA	MANHOLE		
NFORM WITH ALL			ABUTTER I	LINE		
			PROPERTY OVERHEAD	UTILITIES		
TO CLOSE, DAILY.						
RICANS WITH DISABILITIES		EOP		PAVEMENT		
ON THIS SITE PLAN IN SITE PLAN, OR CHANGE OF HUDSON PLANNING		VGC	SETBACK	GRANITE CURB		
AS-BUILT" SITE PLAN E SITE CONFORMS WITH		·		DENTIAL BUFFER ACE BUFFER		
ECTOR AND ZONING			PROPOSED PROPOSED			
STORED IN THE THE ABUTTING PARCELS.		X ₹X3) GAS VALVE) WATER VALVE		
LED OFF-SITE AND OCAL, STATE, AND	• • • •		PROPOSED	WOOD GUARDRAI	L .	
H NHDES REQUIREMENTS EMENT, WHICH SHALL BE		· · · · · · · · · · · · · · · · · · ·	PROPOSED	EDGE OF PAVEM	ENT	
E PLAN-OF-RECORD AND COUNSEL PRIOR TO			PROPOSED) RETAINING WALL) VERTICAL GRANIT		
N TO SCHEDULE A STRUCTION. TROL MEASURES DURING			PROPOSEE	OUTLET STRUCTU	IRE	
TO THE ISSUANCE OF THE EVELOPMENT DEPARTMENT			· · · · · · · · · · · · · · · · · · ·			
E APPROVED SITE PLAN. DT LINE SETBACK	LOAM &	SEED ALL	DISTU	RBED ARE	AS (TYP.)	
ANY DISCREPANCY JMENTED BY THE		GRA	APHIC	SCALE		
O INSTALLATION.	50	0 25 5	50 	100	200)
OF OFFSITE FILL			(IN FEE	Г)		
HUDSON ZONING THE BUSINESS (B) ZONING		1	inch = 5	0 ft.		
TO REDUCE THE 100'		MASTI	ER SI	TE PLAN	J	
TO REDUCE THE	BIU			F STC		
D TO ALLOW THE R LEFT CORNER OF THE				21, 22 & 23		
REQUIRED.				AL STREE		
		,		HAMPSHI		
TER WITH HIGHLY VISIBLE TION-RELATED ACTIVITIES. OF THE PROPOSED	OWNER OF		T	H COUNT	Y APPLICANT:	· .
E MANAGED IN L REGULATIONS. LL BE COMPLETED IN	RONALD CRAV	EN TRUST		BLUEBIRD	SELF STORAGE OCEAN ROAD	LLC.
	88 SPEARE HUDSON, N	E ROAD H 03051			LAND, NH 03840	C
	H.C.R.D. BK. 60	79 PG. 1294				
	K7		<u></u>	TROM ASSOCIA	TES INC	
	Civil En	gineering Lan	d Surveyii	ng Landscape A	rchitecture	981
	10 Commerce Pa	ark North, Suite	ு . Bedfe	REVISION	hone (603) 627-28 	101
PLAN WAS PREPARED BY	- 「「「「「」」に、「時にやき」「時間」」「「方と」		TE	DESC	RIPTION	BY ENT DES
ACTUAL FIELD SURVEY IS OFFICE DURING JULY SURVEY HAS AN ERROR	STEVEN B	2 02-14	L-2022 RI L-2022 L-2022	REVISED PER	DRAINAGE PER CLI REVIEW COMMENTS TOWN COMMENTS	ENT BES BES BES
IE PART IN TEN THOUSAND	STEVEN B PRO PERCH PESS PRO PESS PRO		3-2022		TOWN COMMENTS	BES
7. 28/27	AT 30°	DATE: DEC	CEMBER 2	0, 2021	SCALE: 1" =	50'
R DATE	Contraction Or Y	PROJECT			SHEET 1 OF	



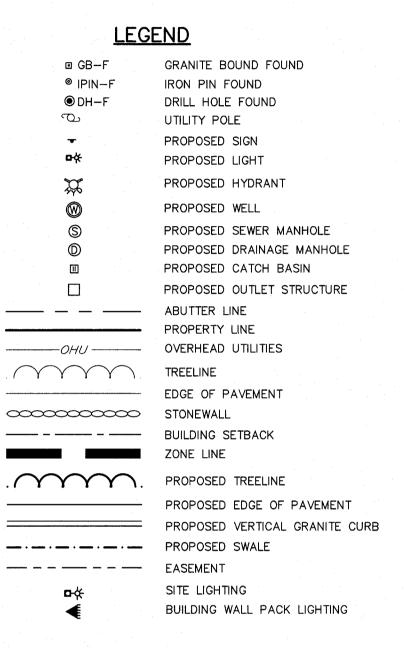


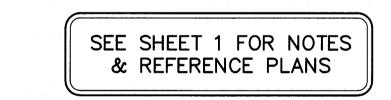
SITE REVIEW	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
REGULATIONS OF THE HUDSON PLANNING BOARD,	SIGNATURE DATE:
THE SITE PLAN APPROVAL GRANTED HEREIN	SIGNATURE DATE:
EXPIRES TWO YEARS FROM DATE OF APPROVAL	SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

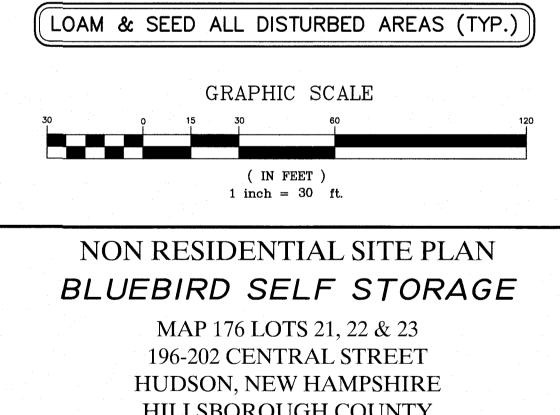
	LEG	END	
E GB-F [©] IPIN-F [©] DH-F [©] IPP-F [℃]	GRANITE BOUND FOUND IRON PIN FOUND DRILL HOLE FOUND IRON PIPE FOUND UTILITY POLE SIGN		ABUTTER LINE PROPERTY LINE WETLAND OVERHEAD UTILITIES TREELINE EDGE OF PAVEMENT
¢ cv ×	LIGHT GAS VALVE		VERTICAL GRANITE CURB SLOPED GRANITE CURB
₩ ₩ *8	WATER VALVE HYDRANT WATER SHUT OFF		BITUMINOUS CURB STONEWALL EASEMENT ZONE LINE
	WELL SEWER MANHOLE DRAINAGE MANHOLE CATCH BASIN FLARED END SECTION		ZUNE LINE



APPROVED BY THE HUDSON, NH PLANNING BOARD PURSUANT TO THE DATE OF MEETING: SITE REVIEW **REGULATIONS OF** THE HUDSON SIGNATURE DATE:__ PLANNING BOARD THE SITE PLAN APPROVAL SIGNATURE DATE: _ GRANTED HEREIN SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD EXPIRES TWO YEARS FROM DATE MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING OF APPROVAL BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.







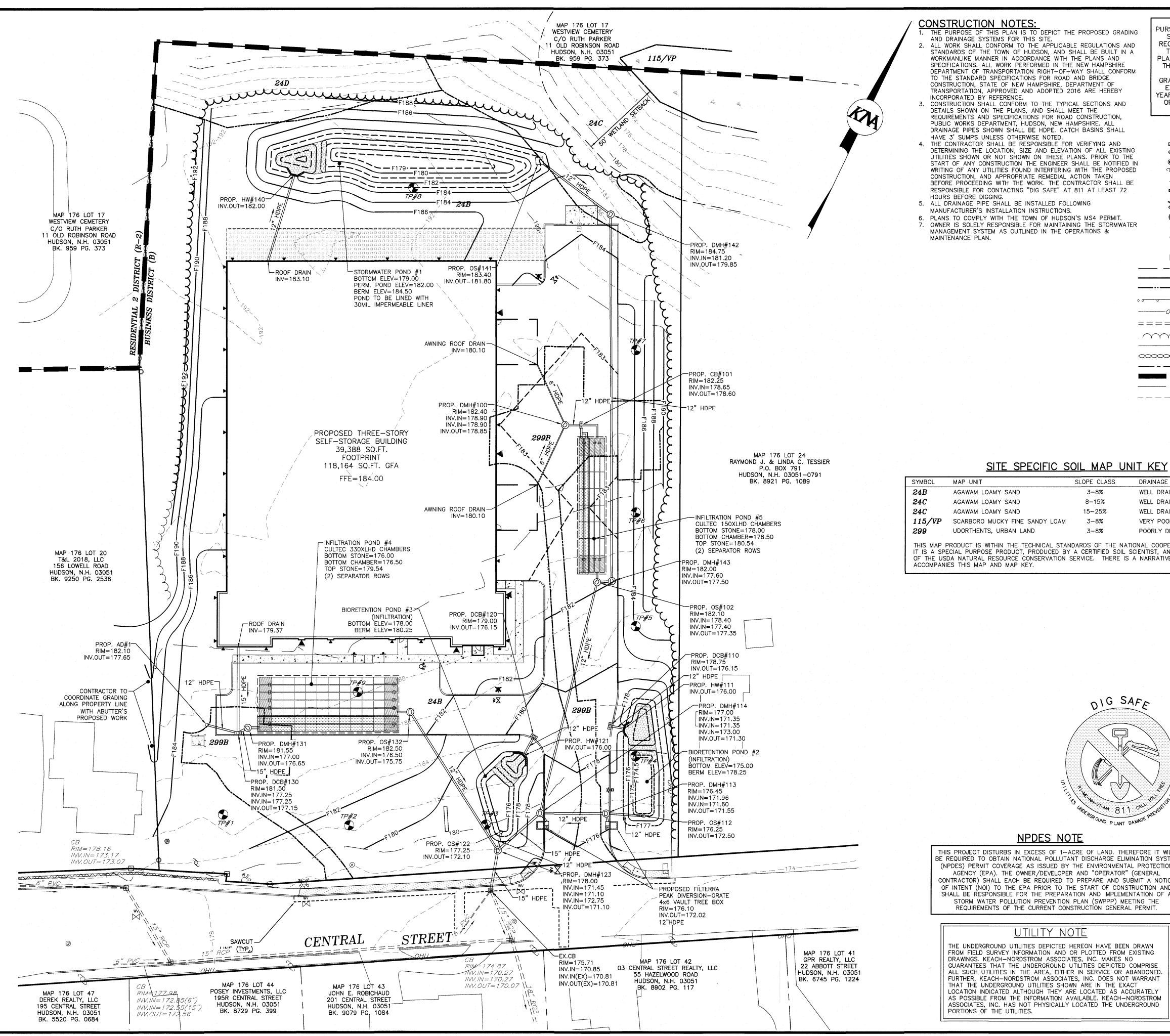
HILLSBOROUGH COUNTY **OWNER OF RECORD: APPLICANT:** RONALD CRAVEN TRUST BLUEBIRD SELF STORAGE LLC. 125 OCEAN ROAD c/o NANCY CRAVEN TRUST GREENLAND, NH 03840 88 SPEARE ROAD HUDSON, NH 03051 H.C.R.D. BK. 6079 PG. 1294 KEACH-NORDSTROM ASSOCIATES, INC. Civil Engineering Land Surveying Landscape Architecture 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881 REVISIONS DATE DESCRIPTION No. BY STEVEN REVISED GRADING/DRAINAGE PER CLIENT 01-21-2022 BES REVISED PER REVIEW COMMENTS 2 02-14-2022 BES KEACH 3 02-21-2022 **REVISED PER TOWN COMMENTS** BES php. 7659 4 02-28-2022 **REVISED PER TOWN COMMENTS** BES

DATE: DECEMBER 20, 2021

PROJECT NO: 21-0709-3

SCALE: 1'' = 30'

SHEET 4 **OF** 23



THE HUDSON PLANNING BOAR THE SITE PLAN APPROVAL	N		SIGNATURE DATE:
GRANTED HEREI EXPIRES TWO YEARS FROM DA OF APPROVAL	SITE PLANS ARE VALID FO MEETING FINAL APPROVAL	OR TWO YEARS FROM TI FINAL APPROVAL CO	HE DATE OF PLANNING BOARI MMENCES AT THE PLANNING
· · ·	LEGE	END	
□ GB-F	GRANITE BOUND FOUND		PROPOSED CHAIN LINK FENCE
[◎] IPIN-F	IRON PIN FOUND	OO	PROPOSED STOCKADE FENCE
● DH-F	DRILL HOLE FOUND	oo	PROPOSED POST & RAIL FENC
С Л	UTILITY POLE	XXX	PROPOSED BARBED WIRE FENC
.	PROPOSED SIGN		PROPOSED GUARDRAIL
₽¢÷	PROPOSED LIGHT		
₩.	PROPOSED HYDRANT	OHU UGU	PROPOSED OVERHEAD UTILITIES PROPOSED UNDERGROUND UTIL
Ŵ	PROPOSED WELL		PROPOSED GAS LINE
S	PROPOSED SEWER MANHOLE		PROPOSED WATER LINE
Ō	PROPOSED DRAINAGE MANHOLE		PROPOSED SEWER LINE
Ē	PROPOSED CATCH BASIN		PROPOSED DRAINAGE LINE
	PROPOSED OUTLET STRUCTURE	000000	PROPOSED TREELINE
	ABUTTER LINE		
	PROPERTY LINE		PROPOSED EDGE OF PAVEMEN
	WETLAND		PROPOSED VERTICAL GRANITE PROPOSED SLOPED GRANITE C
<u></u>	GUARDRAIL		PROPOSED 2' CONTOUR
OHU	OVERHEAD UTILITIES		PROPOSED SWALE
			PROPOSED RETAINING WALL
	DRAINAGE LINE		PROPOSED STONEWALL
$\Upsilon \Upsilon \Upsilon \Upsilon \Upsilon \Upsilon \Upsilon) .$	TREELINE		EASEMENT
	EDGE OF PAVEMENT	- 1/	SITE LIGHTING
	STONEWALL	₽¢ ×	BUILDING WALL PACK LIGHTING
	BUILDING SETBACK	交 TP 1	DUILDING MALL I AGN LIGHTING
	ZONE LINE		TEST PIT
	10' CONTOUR		
	2' CONTOUR		

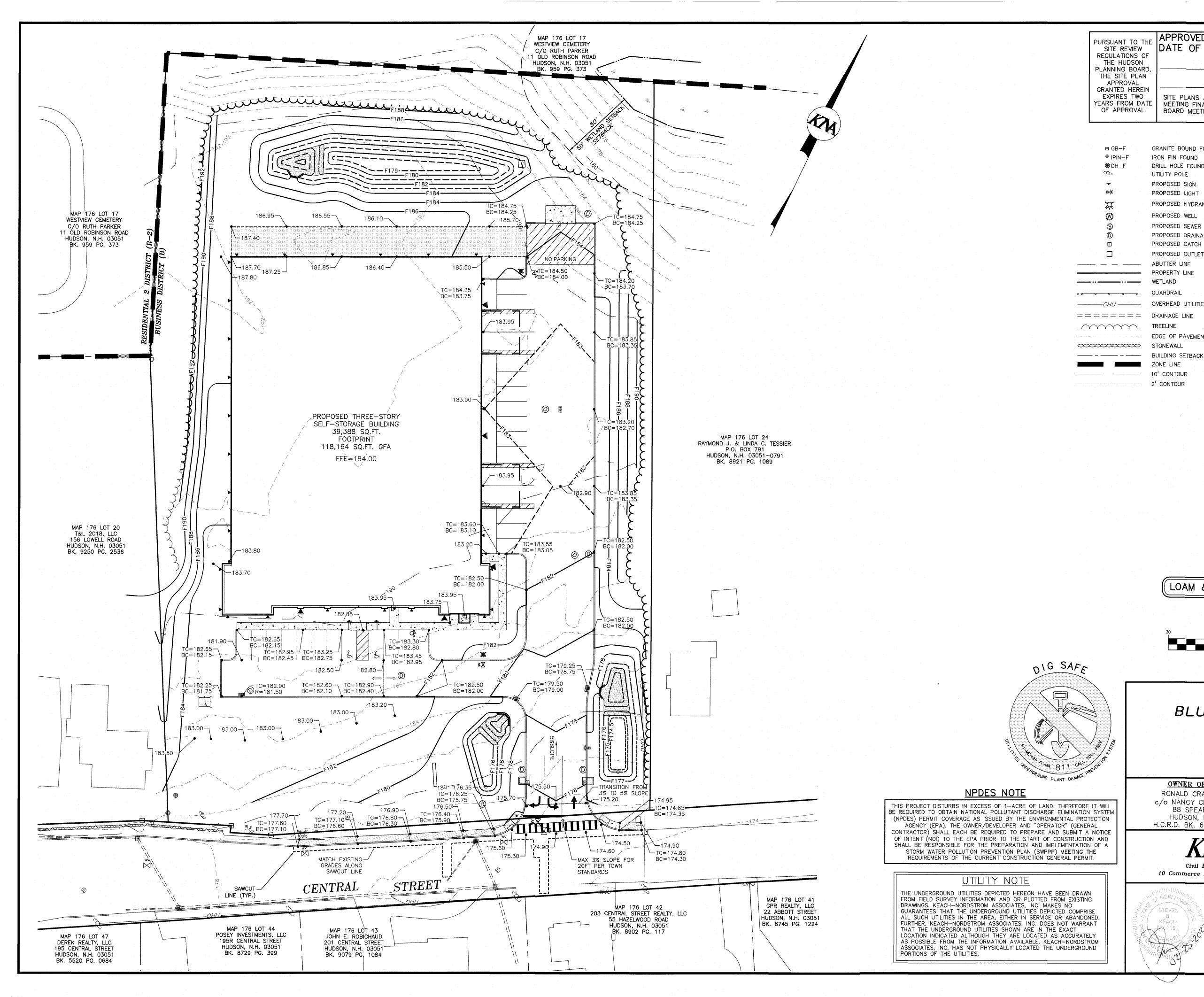
SS	DRAINAGE CLAS	S HSG			<u>SCS SO</u>	LS LEGEND	
	WELL DRAINED	В	Wd	B wii	NDSOR LOAM S	AND, 3-8% SLOPES	
	WELL DRAINED	В	Wd	~		AND, 8-15% SLOPES	
	VERY POORLY D	B DRAINED D	SOUR		SDA-SCS WEB S		
	POORLY DRAINE		5004		SDA-SCS WEB S	SOIL SURVET	
SOIL S	ONAL COOPERATIV CIENTIST, AND IS	NOT A PRODUCT	(
ERE IS ,	A NARRATIVE REP	ORT THAT		SE	E SHEET	1 FOR NOTES	
						ENCE PLANS	
			AM & 3	SEED	ALL DIS	TURBED AREAS (TYP.)	
					GRAPHI	C SCALE	
		30	0	15	5 30	60 120	
					·		
	~					FEET)	
G SA	FE				1 inch =	= 30 ft.	
			-		·		
			GRA	DIN	IG & DI	RAINAGE PLAN	
<u></u>							
NV (V^			BLUE	BIF	RD SE	ELF STORAGE	
\mathbf{x}				ъла		$\mathbf{T}\mathbf{C}$ 21 22 8 22	
						TS 21, 22 & 23	
(\forall)				196-2	202 CENT	RAL STREET	
			H	IUDS	SON, NEV	V HAMPSHIRE	
811	CALL		1	нит	SBOROL	JGH COUNTY	
PLANT DA	CALL TOL PREVENTION SCO			· · · ·			
		OWN	ER OF R			APPLICANT:	
· ·		i contra	D CRAVE			BLUEBIRD SELF STORAGE LLC. 125 OCEAN ROAD	
	EFORE IT WILL		NCY CRAV SPEARE		.031	GREENLAND, NH 03840	
MENTAL	PROTECTION	HUD	SON, NH	03051			
	GENERAL MIT A NOTICE	H.C.R.D.	BK. 6079	9 PG. '	1294	· · · · · · · · · · · · · · · · · · ·	
CONSTR	RUCTION AND			T			
	TATION OF A TING THE		· K / 1	A=	KEAGU NOR	DSTROM ASSOCIATES, INC.	
	PERMIT.						
		10 Com	-	-		eying Landscape Architecture edford, NH 03110 Phone (603) 627-2881	
E BEEN			14.			REVISIONS	
FROM E	XISTING	SENEW HA	angen ander Malana	No.	DATE	DESCRIPTION	BY
ICTED C	OMPRISE	SAT STEVEN		1	01-21-2022	REVISED GRADING/DRAINAGE PER CLIENT	BES
	ANDONED.	B & ACH		2	02-14-2022 02-21-2022	REVISED PER REVIEW COMMENTS REVISED PER TOWN COMMENTS	BES BES
HE EXAC		ALL	JE ST	4	02-28-2022	REVISED PER TOWN COMMENTS	BES
ACH-NC	RDSTROM	1 38 Notre	AN 20 -				
		· · · · · · · · · · · · · · · · · · ·	5. S. K 2865		1		1

DATE: DECEMBER 20, 2021

PROJECT NO: 21–0709–3

SCALE: 1" = 30'

SHEET 5 **OF** 23



PURSUANT TO TH SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES TWO OF APPROVAL

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

SIGNATURE DATE:

SIGNATURE DATE: _

SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD YEARS FROM DATE | MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

⊡ GB-F [©] IPIN−F ● DH-F ပ ₽¢ X (D) 11 ---------0----0 0 0 0 0 -----OHU -----= = = = = = = DRAINAGE LINE TREELINE COCOCCCCCC STONEWALL

<u>LEGEND</u>

GRANITE BOUND FOUND

ABUTTER LINE

WETLAND

GUARDRAIL

ZONE LINE

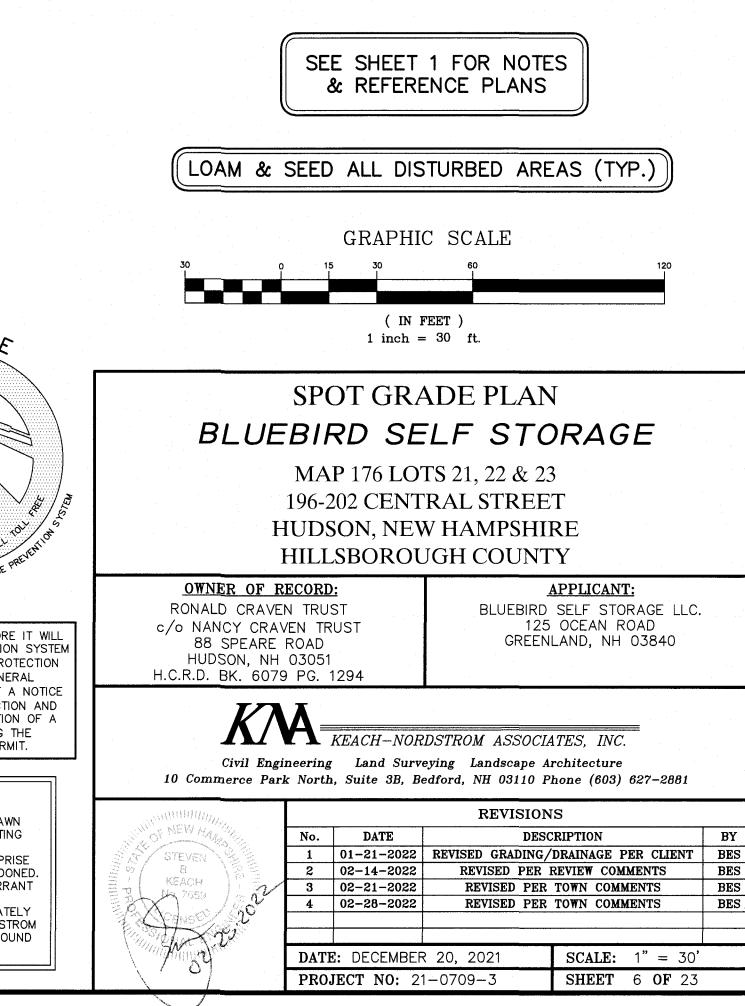
10' CONTOUR

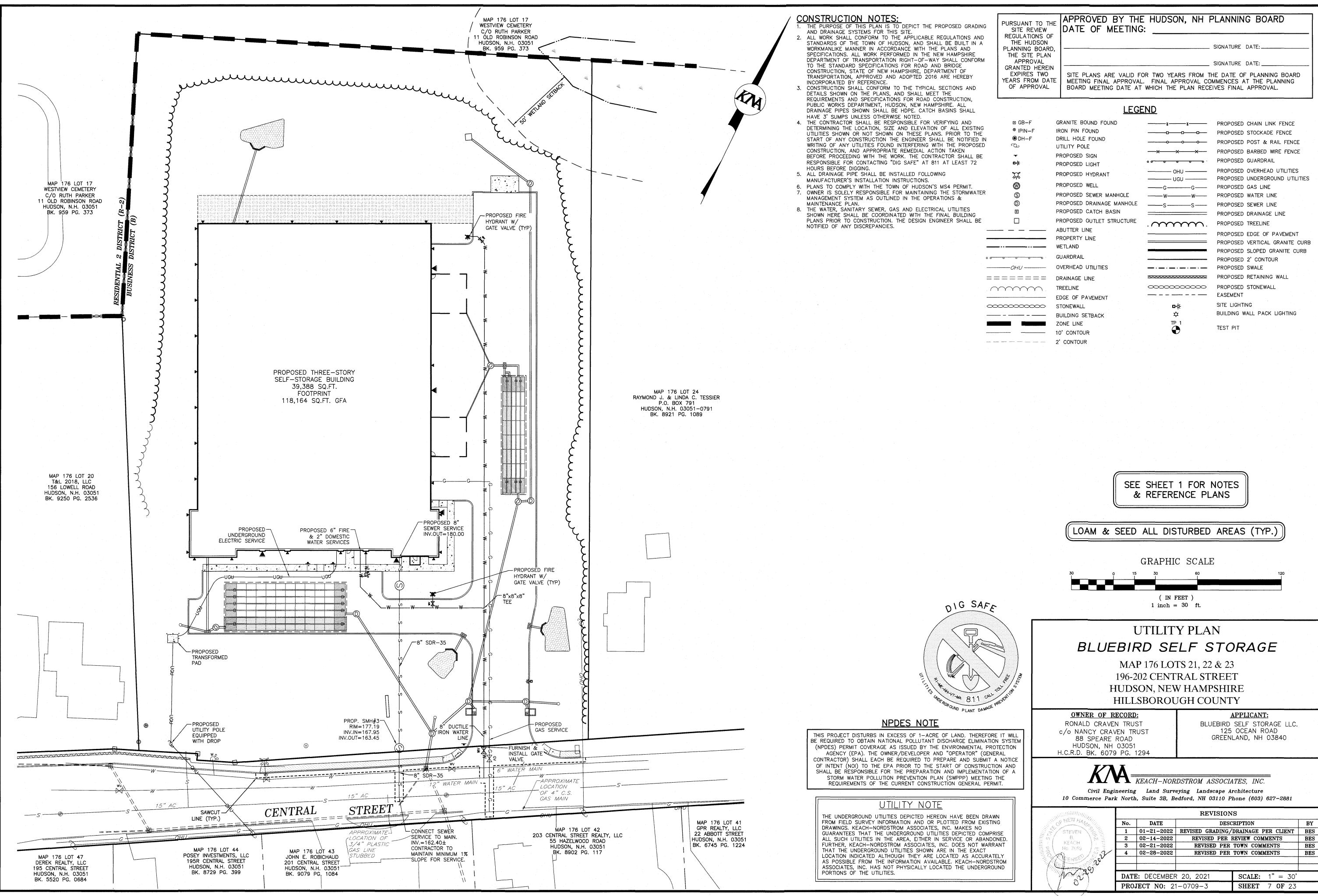
OVERHEAD UTILITIES

GRANITE BOUND FOUND	
IRON PIN FOUND	
DRILL HOLE FOUND	oo
UTILITY POLE	
PROPOSED SIGN	——————————————————————————————————————
PROPOSED LIGHT	
PROPOSED HYDRANT	OHU
PROPOSED WELL	GG
PROPOSED SEWER MANHOLE	WW
PROPOSED DRAINAGE MANHOLE	<u> </u>
PROPOSED CATCH BASIN	
PROPOSED OUTLET STRUCTURE	
ABUTTER LINE	. / Т Т Т Т Т Т Т Т
PROPERTY LINE	
WETLAND	
GUARDRAIL	
OVERHEAD UTILITIES	
DRAINAGE LINE	****
TREELINE	
EDGE OF PAVEMENT	
STONEWALL	ም ረት

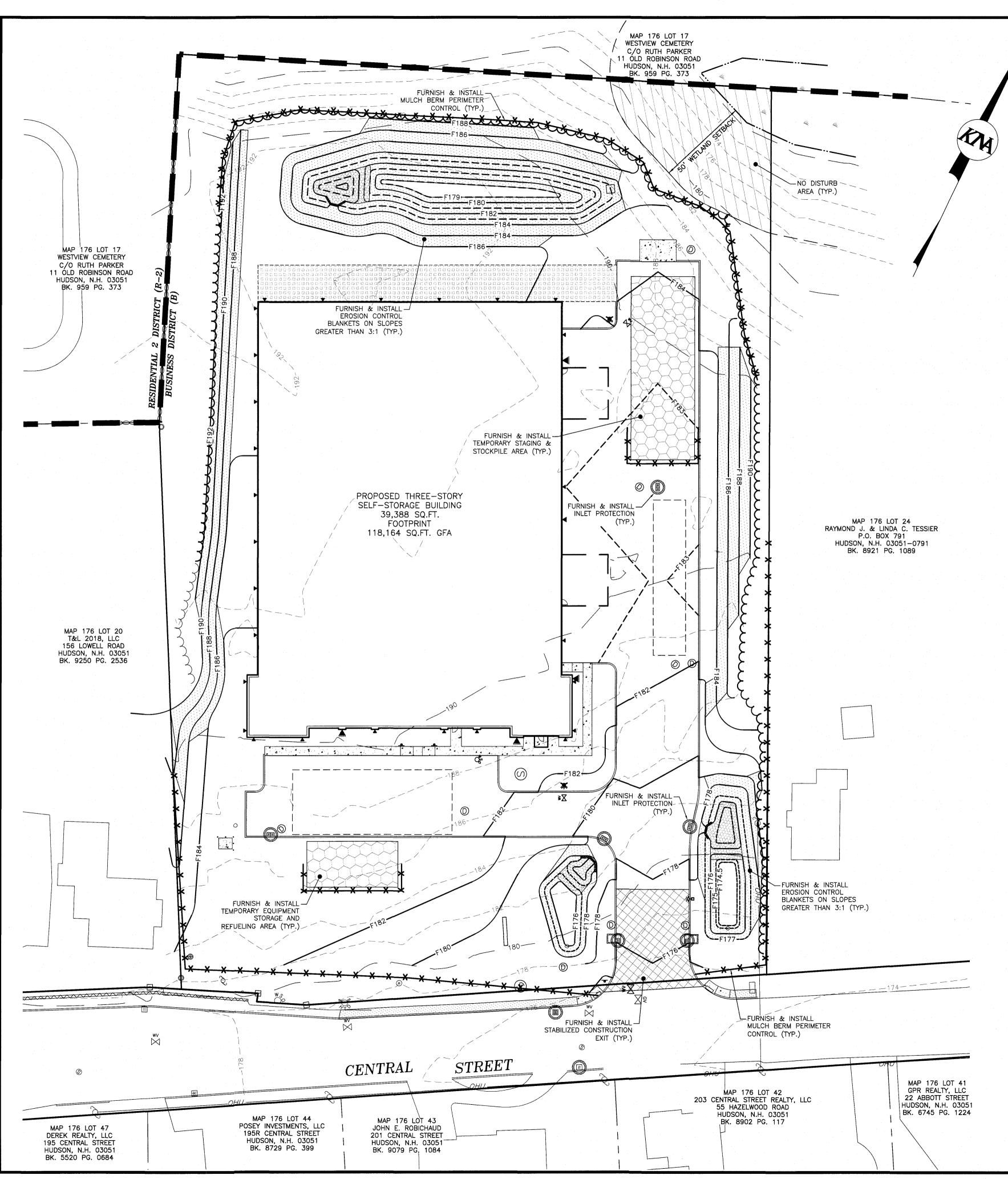
TP

PROPOSED	CHAIN LINK FENCE
PROPOSED	STOCKADE FENCE
PROPOSED	POST & RAIL FENCE
PROPOSED	BARBED WIRE FENCE
PROPOSED	GUARDRAIL
PROPOSED	OVERHEAD UTILITIES
PROPOSED	UNDERGROUND UTILITIES
PROPOSED	GAS LINE
PROPOSED	WATER LINE
PROPOSED	SEWER LINE
PROPOSED	DRAINAGE LINE
PROPOSED	TREELINE
PROPOSED	EDGE OF PAVEMENT
PROPOSED	VERTICAL GRANITE CURB
PROPOSED	SLOPED GRANITE CURB
PROPOSED	2' CONTOUR
PROPOSED	SWALE
PROPOSED	RETAINING WALL
PROPOSED	STONEWALL
EASEMENT	
SITE LIGHTI	NG
BUILDING W	ALL PACK LIGHTING
TEST PIT	
ILSI FII	





; PURSUANT TO T SITE REVIEW REGULATIONS C	DATE OF MEETING	•	
THE HUDSON			SIGNATURE DATE:
PLANNING BOAR THE SITE PLAN			
APPROVAL			SIGNATURE DATE:
GRANTED HERE EXPIRES TWO		OR TWO YEARS FROM T	HE DATE OF PLANNING BOARD
YEARS FROM DA	TE MEETING FINAL APPROVAL	. FINAL APPROVAL CO	DMMENCES AT THE PLANNING
OF APPROVAL	BOARD MEETING DATE AT	WHICH THE PLAN RECI	LIVES FINAL APPROVAL.
	· · · · · · · · · · · · · · · · · · ·		
	LEGE	ND	
▣ GB-F	GRANITE BOUND FOUND		PROPOSED CHAIN LINK FENCE
◎ IPIN-F	IRON PIN FOUND	······	PROPOSED STOCKADE FENCE
	DRILL HOLE FOUND UTILITY POLE	oooooo	PROPOSED POST & RAIL FENCE
and the second sec			PROPOSED BARBED WIRE FENCE
т Сф	PROPOSED SIGN PROPOSED LIGHT	۵ ۵ – ۵ – ۵ .	PROPOSED GUARDRAIL
		OHU	PROPOSED OVERHEAD UTILITIES
,	PROPOSED HYDRANT	UGU	PROPOSED UNDERGROUND UTILITIE
	PROPOSED WELL	——GG	PROPOSED GAS LINE
S	PROPOSED SEWER MANHOLE	WW	PROPOSED WATER LINE
D	PROPOSED DRAINAGE MANHOLE	<u> </u>	PROPOSED SEWER LINE
	PROPOSED CATCH BASIN		PROPOSED DRAINAGE LINE
	PROPOSED OUTLET STRUCTURE		PROPOSED TREELINE
	ABUTTER LINE	· · · · · · · · · · · · · · · · · · ·	PROPOSED EDGE OF PAVEMENT
	PROPERTY LINE		PROPOSED VERTICAL GRANITE CUR
	WETLAND		PROPOSED SLOPED GRANITE CURB
o a o o o o o	GUARDRAIL		PROPOSED 2' CONTOUR
OHU	OVERHEAD UTILITIES	<u> </u>	PROPOSED SWALE
	DRAINAGE LINE		PROPOSED RETAINING WALL
	TREELINE		PROPOSED STONEWALL
·	EDGE OF PAVEMENT		EASEMENT
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	STONEWALL	┏┿	SITE LIGHTING
	BUILDING SETBACK	\$	BUILDING WALL PACK LIGHTING
	ZONE LINE	TP 1	TEST DIT
	10' CONTOUR		TEST PIT
	2' CONTOUR		



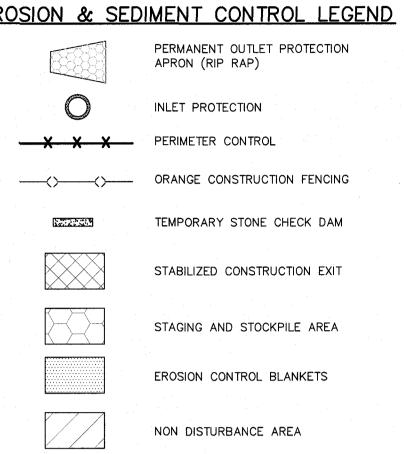
## EROSION CONTROL NOTES:

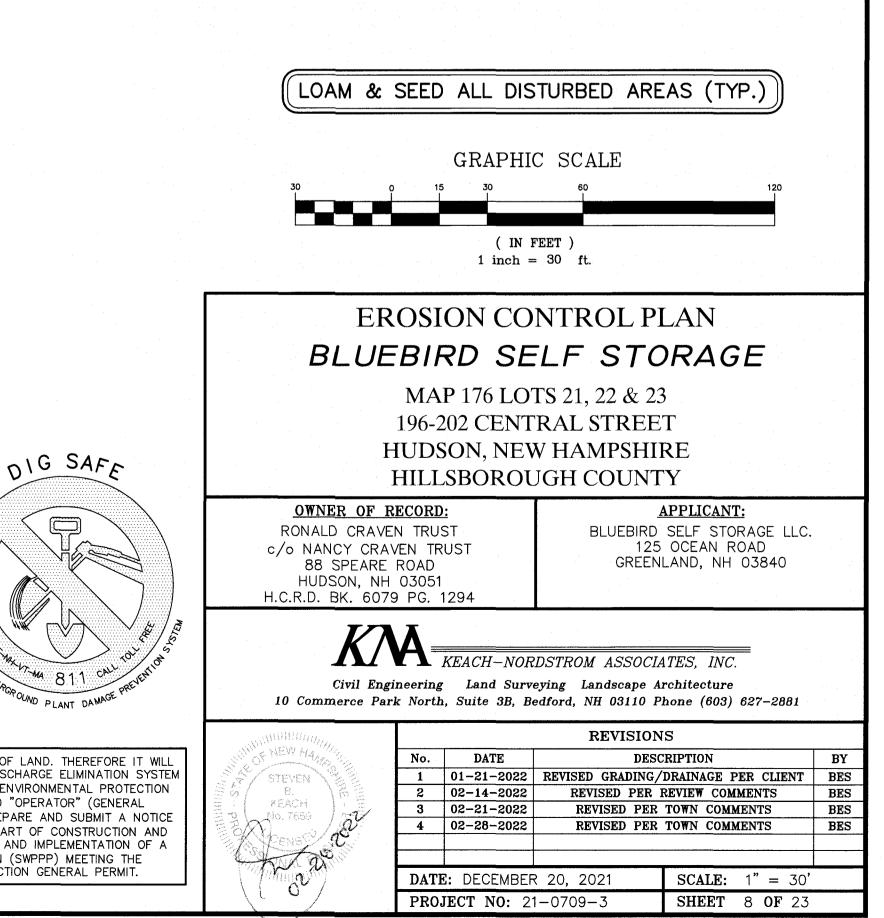
- THE PURPOSE OF THIS PLAN IS TO DEPICT THE REQUIRED ONSITE TEMPOR EROSION CONTROL MEASURES AS WELL AS THE PERMANENT EROSION CON 2. ALL MEASURES IN THE PLAN SHALL MEET AS A MINIMUM THE BEST MANA FORTH IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUEL TITLE SEDIMENT CONTROLS DURING CONSTRUCTION," DATED DECEMBER 2010, AS AMENDED FROM TIME TO
- 3. WHENEVER PRACTICAL, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED OR SUPPLEMENTED. THE STRIPPING OF VEGETATION SHALL BE DONE IN A MANNER THAT MINIMIZES SOIL EROSION. 4. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
- 5. THE AREA OF DISTURBANCE SHALL BE KEPT TO A MINIMUM. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN FIVE DAYS FROM THE INITIAL DISTURBANCE WITH SEED AND MULCH, EROSION CONTROL BLANKETS OR CRUSTED STONE OR OTHER SUITABLE MEASURES APPROVED BY THE TOWN ENGINEER OR DESIGNATED REPRESENTATIVE. ALL DISTURBED SOIL AREAS THAT HAVE ACHIEVED FINAL GRADING SHALL BE PERMANENTLY STABILIZED WITHIN THREE DAYS FOLLOWING FINAL
- GRADING. 6. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA USING APPROVED
- MEASURES. WETLAND AREAS AND SURFACE WATERS SHALL BE PROTECTED FROM SEDIMENT. 7. OFFSITE SURFACE WATER AND RUNOFF FROM UNDISTURBED AREAS SHALL BE DIVERTED AWAY FROM DISTURBED AREAS WHERE FEASIBLE OR CARRIED NON-EROSIVELY THROUGH THE PROJECT
- AREA. INTEGRITY OF DOWNSTREAM DRAINAGE SYSTEMS SHALL BE MAINTAINED. 8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN FUNCTIONING CONDITION UNTIL FINAL SITE STABILIZATION IS ACCOMPLISHED. 9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL
- SITE STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS UNLESS CONDITIONS DICTATE OTHERWISE.
- 10. THE TOWN OF HUDSON SHALL RESERVE THE RIGHT TO REQUIRE FURTHER EROSION CONTROL PRACTICES DURING CONSTRUCTION SHOULD THEY FIND IT NECESSARY. 11. INFILTRATION AREAS ARE TO BE PROTECTED FROM OVER-COMPACTION DURING CONSTRUCTION. 12. SLOPES OVER 2:1 TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

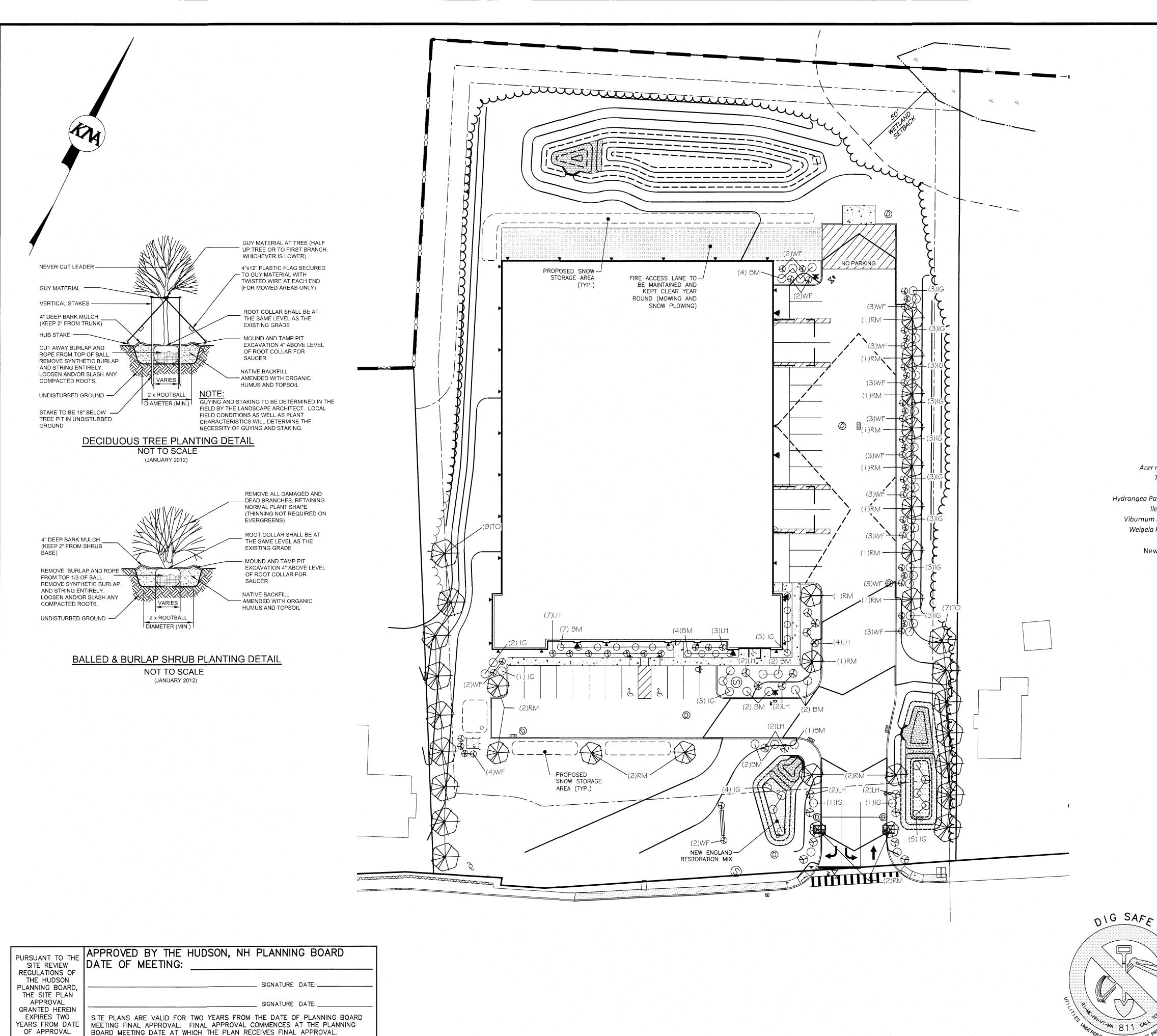
NPDES NOTE THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

(NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.

	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN	SIGNATURE DATE:
APPROVAL	
GRANTED HEREIN EXPIRES TWO YEARS FROM DATE OF APPROVAL	SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.
CONSTRUCTION	EROSION & SEDIMENT CONTROL LEGEND
_ MEASURES. ENT PRACTICES SET TROSION AND	PERMANENT OUTLET PROTECTION APRON (RIP RAP)







UNDERGROUND PLAN

LANDSCAPE NOTES:

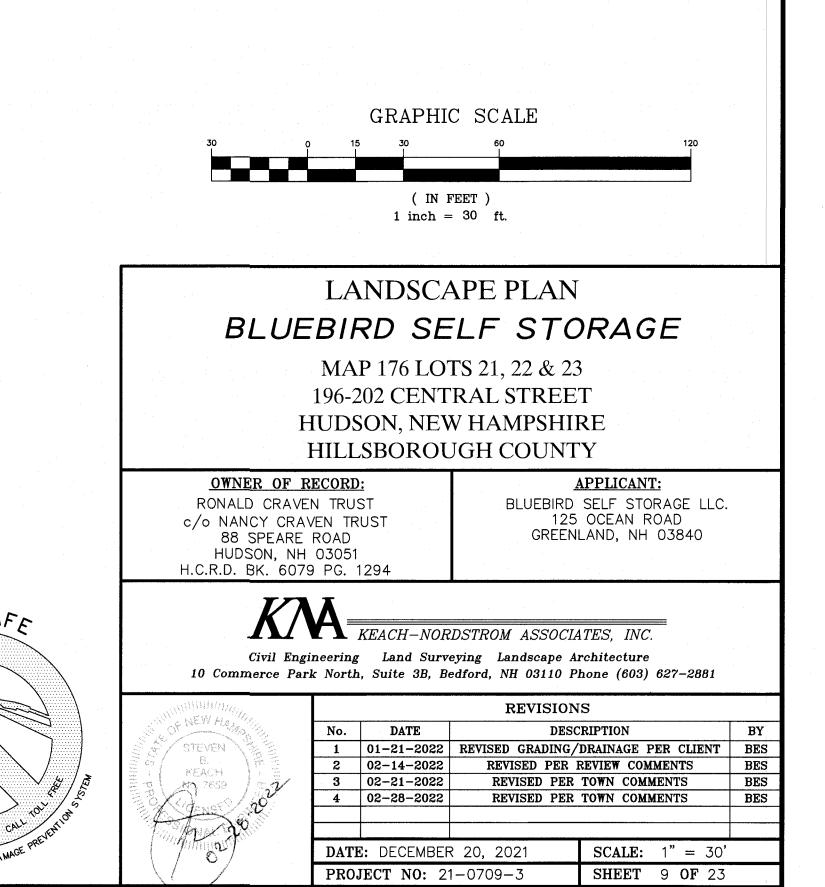
. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE LANDSCAPE WHICH PROVIDES CLIMATIC RELIEF AND AESTHETIC APPEAL.

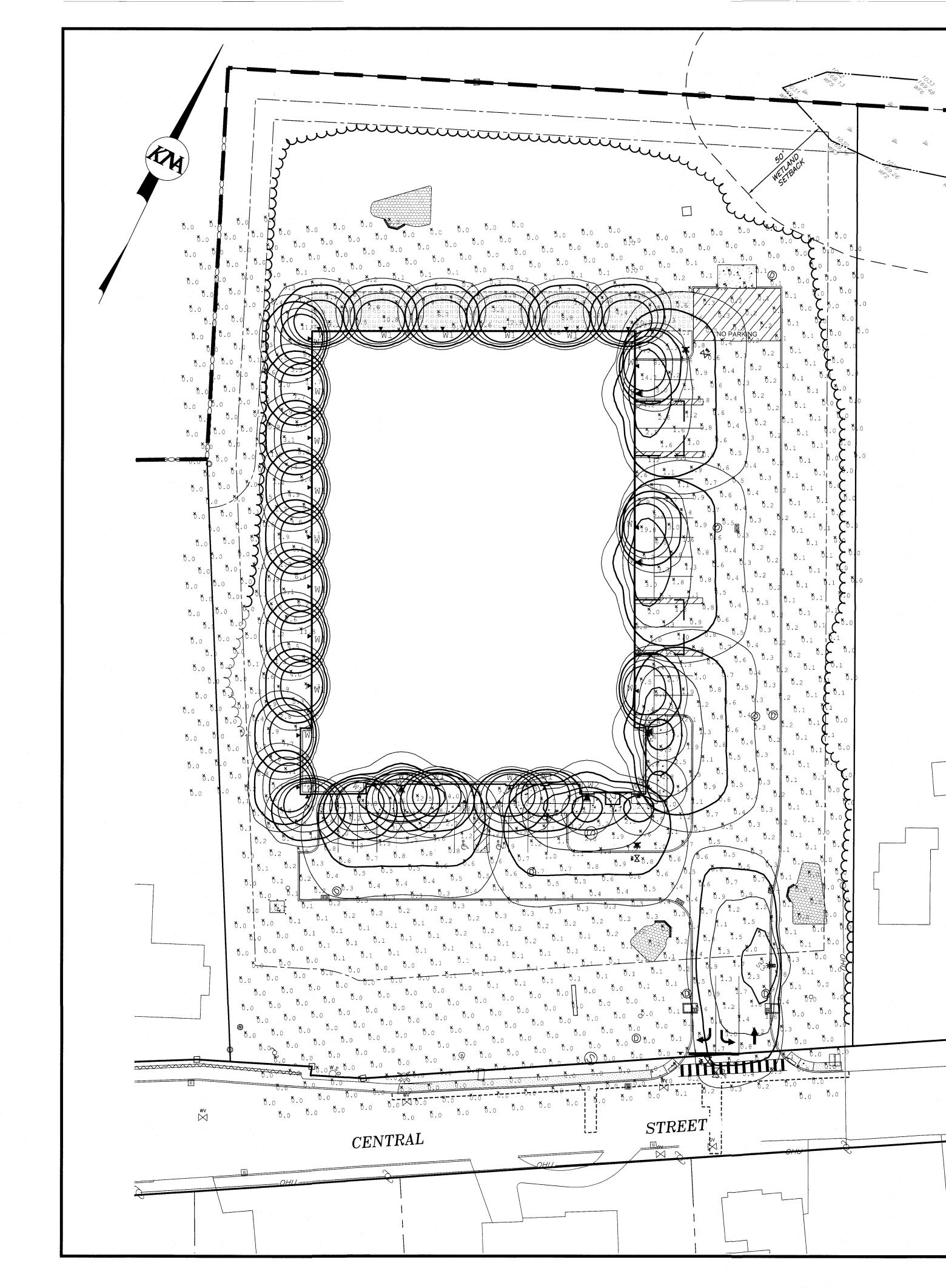
- 2. ALL PLANT MATERIALS USED SHALL BE NURSERY STOCK AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF INSTALLATION. ANY MATERIAL WHICH DIES OR DOES NOT SHOWN HEALTHY APPEARANCE WITHIN THIS TIME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; WITH SAME WARRANTY REQUIREMENTS AS THE ORIGINAL. WARRANTIES TYPICALLY DO NOT COVER LOSS DUE TO INSECT INFESTATION OR MECHANICAL DAMAGE (I.E. SNOW STORAGE).
- 3. IF THE SOIL CONDITIONS ARE EXTREMELY SANDY, ALL TREES SHALL HAVE A 6" LAYER OF COMPACTED TOPSOIL PLACED IN THE BASE OF THE PLANT PIT AS A MOISTURE RETENTION LAYER. THE PLANT PIT SIDEWALLS SHALL BE OVER EXCAVATED BY AN ADDITIONAL 12" BEYOND THE NORMAL OUTSIDE RADIUS OF THE HOLE. A TOPSOIL MIXTURE SHALL BE USED TO BACKFILL THE HOLE AS FOLLOWED; ORGANIC TOPSOIL, AMENDED WITH 10% WOOD ASH, 10% MANURE, 30% PEATMOSS AND A GRANULAR HYDROGEL TO ABSORB AND RETAIN WATER.
- 4. PLANTING BEDS AND SAUCERS SHALL RECEIVE A 4" MINIMUM THICKNESS OF PINE/HEMLOCK BARK MULCH OVER A 50Z. POLYPROPYLENE WEED CONTROL FABRIC.
- 5. 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.
- 6. PLANT TYPES SHOWN ARE SUBJECT TO AVAILABILITY. SUBSTITUTE MATERIALS CAN BE IMPLEMENTED WITH APPROVAL FROM KEACH NORDSTROM ASSOCIATES PRIOR TO CONSTRUCTION.

LANDSCAPE CALCULATION	<u>S</u>
REQUIRED PARKING LOT INTERIOR LANDSCAPI	E AREA
PROPOSED PARKING AREA PAVED:	28,870 SF
10% REQUIRED LANDSCAPE AREA:	2,887 SF
PROVIDED LANDSCAPE AREA:	8,612 SF
DEOLUDED DADIVING LOT CHADE TREES AND	
REQUIRED PARKING LOT SHADE TREES AND	
PROPOSED PAVED AREA:	28,870 SF
SHADE TREES REQUIRED (28,870/1,600):	18 TREES REQUIRED
(OR 1 TREE/5 PROP. PARKING SPACES)	6 TREES REQUIRED
SHADE TREES PROVIDED:	18 TREES PROPOSED
SHRUBS REQUIRED (28,870/200):	145 SHRUBS, OR
(OR 1.6 x 28 PROP. PARKING SPACES)	45 SHRUBS PROPOSED
SHRUBS PROVIDED:	145 SHRUBS PROPOSED

PLANTING SCHEDULE					
Botanical Name/ Common Name	Size	<u>Label</u>	<u>Quantity</u>	Mature Height	
Trees					
Acer rubrum 'Redpointe' / Redpointe Red Maple	3-3.5" CAL.	RM	18	40-60'	
Thuja Occidentalis / Eastern Arborvitae	3-3.5" CAL	то	16	30-40'	
Shrubs					
angea Paniculta 'Little Lamb' / Little Lamb Panicle Hydrangea	24"	LH	23	5-6'	
Ilex glabra 'Compacta' / Compact Inkberry	#3	IG	45	5-6'	
iburnum Dentatum 'Blue Muffin' / Blue Muffin Viburnum	2.5'-3' B&B	BM	36	5-6'	
Weigela Florida 'Wine & Roses' / Wine & Roses Weigela	2.5'-3' B&B	WF	31	5-6'	
Seed Mix					

New England Erosion Control/Restoration Mix

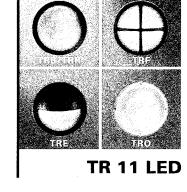


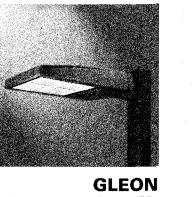


- LIGHTING NOTES: 1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE LIGHTING/PHOTOMETRICS ON THE SIGHT DURING BUSINESS HOURS, AT STANDARD OPERATING BRIGHTNESS.
- 2. ALL LIGHTS/FIXTURES SHALL BE AS SPECIFIED BY CHARRON LIGHTING.
- 3. ALL PROPOSED LIGHTS/FIXTURES ARE TO BE FULL CUTOFF.
- 4. FIXTURES SHALL BE MOUNTED AS HEIGHTS AS SPECIFIED IN TABLE.
- 5. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR THE EXACT LOCATION, LAYOUT, CONDUIT SIZE AND CIRCUITS ASSOCIATED WITH THE SITE LIGHTING.
- 6. LIGHTING WILL BE ON AT ALL TIMES TO PROVIDE SECURITY AND SAFETY FOR THE FACILITY.



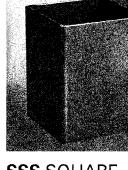
LUMARK AXCENT





**GLEON** GALLEON LED

**GWC** GALLEON WALL



**SSS** SQUARE STRAIGHT STEEL

LUMINAIR	E SCHE	DULE		
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION
₽¢	1	S3	SINGLE	GLEON-SA1C-740-U-SL3-HSS-MS/DIM-L20/ SSS4A20SFN1 (20' AFG)
•	5	W	SINGLE	GWC-SA1C-740-U-SL4-MA/DIM-L20/ WALL MTD 18' AFG
4	25	W1	SINGLE	AXCS3A-MSP/DIM-L12 (9' AFG)
4	4	W2	SINGLE	TRE11-LD4-25W-35-OPL-WH-UNV-EDD1/WALL MTD 13' AFG

STATAREA_1 FRONT PARKING LOT AREA ILLUMINANCE (FC) AVERAGE = 1.02MAXIMUM = 6.2MINIMUM = 0.2AVG/MIN RATIO = 5.10MAX/MIN RATIO = 31.00

STATAREA_2 SIDE PARKING LOT AREA ILLUMINANCE (FC) AVERAGE = 0.96 MAXIMUM = 8.0MINIMUM = 0.2AVG/MIN RATIO = 4.80MAX/MIN RATIO = 40.00



PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES TWO

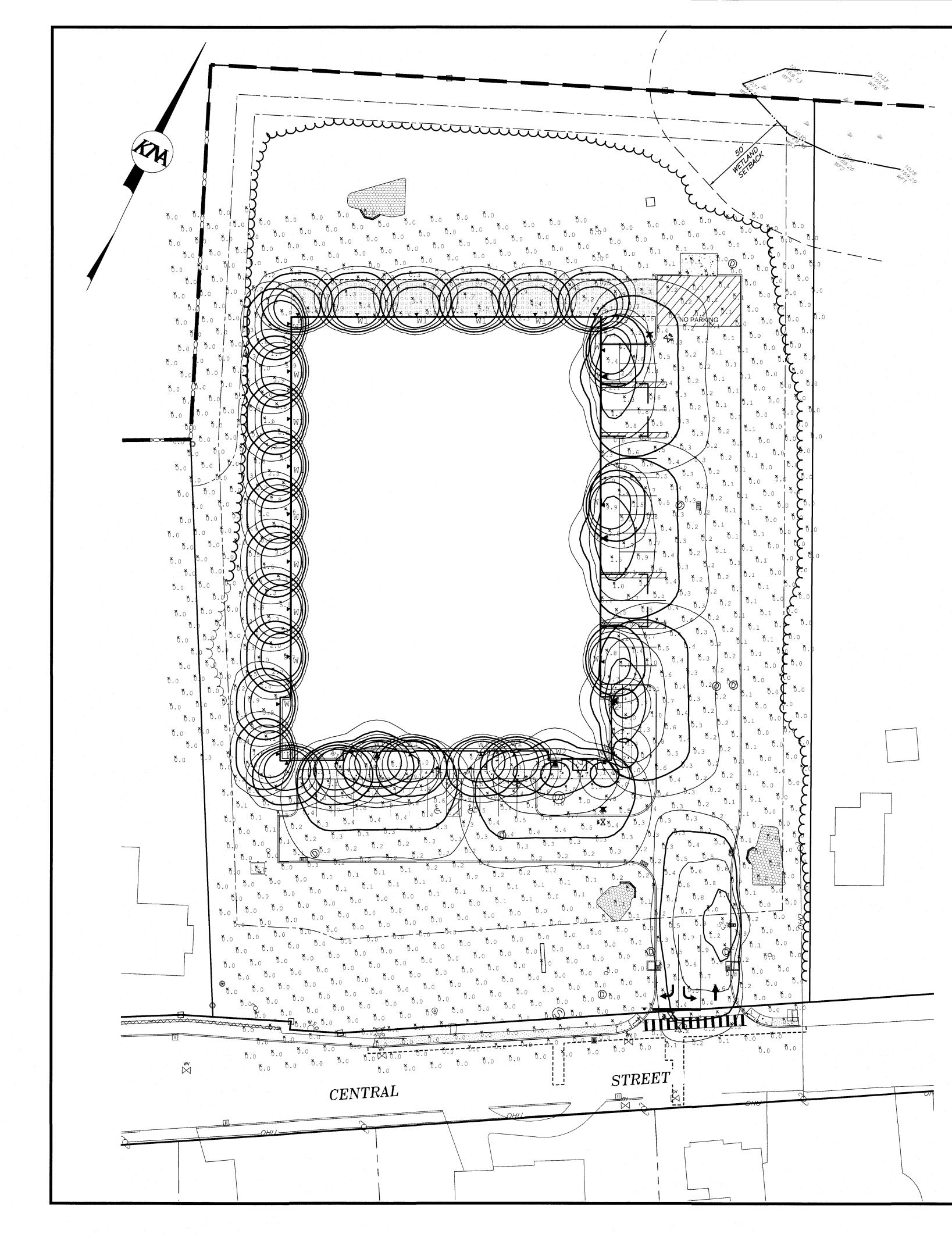
## APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:

SIGNATURE DATE: _____

SIGNATURE DATE: _

SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD YEARS FROM DATE MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING OF APPROVAL BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

		LEGEI	ND		
		◎ IPIN-F ● DH-F	GRANITE BOUND FOUND IRON PIN FOUND DRILL HOLE FOUND UTILITY POLE		
			PROPOSED SIGN PROPOSED LIGHT PROPOSED HYDRANT		
		© I	PROPOSED WELL PROPOSED SEWER MANHO PROPOSED DRAINAGE MAI PROPOSED CATCH BASIN		
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		PROPOSED OUTLET STRUC ABUTTER LINE PROPERTY LINE OVERHEAD UTILITIES	CTURE	
			TREELINE EDGE OF PAVEMENT		
			STONEWALL BUILDING SETBACK ZONE LINE		
			PROPOSED TREELINE PROPOSED EDGE OF PAV PROPOSED VERTICAL GRA PROPOSED SWALE EASEMENT		
		ъ¢	EASEMENT SITE LIGHTING BUILDING WALL PACK LIG	HTING	
			T 1 FOR NOTE RENCE PLANS	S	
		CDADI	HIC SCALE		
	30 O	15 30	60	120	
			N FEET ) h = 30 ft.		
	IN ASSOCIATION WITH	<u>I:</u>		P.O. BOX 455	50
		СНА	ARRON Brighter	MANCHESTER, NH 0310 (603) 624-482 FAX (603) 624-976 SALES@CHARRONINC.CO	98 27 64
			ING PLAN		
		MAP 176 L	<b>ELF STC</b> OTS 21, 22 & 23 VTRAL STREE	6	
	E	IUDSON, NI	EW HAMPSHII DUGH COUNT	RE	
	OWNER OF R RONALD CRAVE c/o NANCY CRAV 88 SPEARE HUDSON, NH H.C.R.D. BK. 6079	N TRUST /EN TRUST ROAD 03051	BLUEBIRD 125	APPLICANT: SELF STORAGE LLC. OCEAN ROAD _AND, NH 03840	
		neering Land Su	ORDSTROM ASSOCIA irveying Landscape Ai Bedford, NH 03110 Pl	chitecture	
		· · · · · · · · · · · · · · · · · · ·	REVISION	S	
	STEVEN	No.         DATE           1         01-21-202           2         02-14-202	22 REVISED GRADING/	RIPTION DRAINAGE PER CLIENT	BY BES
The Ster	KEACH NO 7659 NO 7659 NO 7659	2 02-14-203 3 02-21-203 4 02-28-203	22 REVISED PER	REVIEW COMMENTS TOWN COMMENTS TOWN COMMENTS	BES BES BES
ATIC .	The start of the s	DATE: DECEME	BER 20, 2021	SCALE: 1" = 30'	
· · · ·	Xo)	PROJECT NO:		SHEET         10 OF         23	I

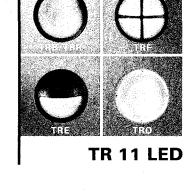


LIGHTING NOTES:

- 1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE LIGHTING/PHOTOMETRICS ON THE SIGHT DURING OFF HOURS, DIMMED TO 50% OPERATING BRIGHTNESS.
- 2. ALL LIGHTS/FIXTURES SHALL BE AS SPECIFIED BY CHARRON LIGHTING.
- 3. ALL PROPOSED LIGHTS/FIXTURES ARE TO BE FULL CUTOFF.
- 4. FIXTURES SHALL BE MOUNTED AS HEIGHTS AS SPECIFIED IN TABLE.
- 5. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR THE EXACT LOCATION, LAYOUT, CONDUIT SIZE AND CIRCUITS ASSOCIATED WITH THE SITE LIGHTING.
- 6. LIGHTING WILL BE ON AT ALL TIMES TO PROVIDE SECURITY AND SAFETY FOR THE FACILITY.

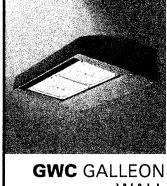


LUMARK





**GLEON** GALLEON LED

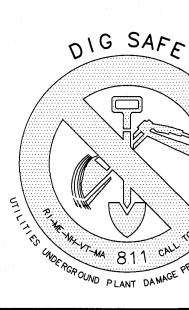






SSS SQUARE STRAIGHT STEEL

SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION
<b>⊡</b> -¢÷	1	S3	SINGLE	GLEON-SA1C-740-U-SL3-HSS-MS/DIM-L20/ SSS4A20SFN1 (2
•	5	W	SINGLE	GWC-SA1C-740-U-SL4-MA/DIM-L20/ WALL MTD 18' AFG
•	25	W1	SINGLE	AXCS3A-MSP/DIM-L12 (9' AFG)
4	4	W2	SINGLE	TRE11-LD4-25W-35-OPL-WH-UNV-EDD1/WALL MTD 13' AFG



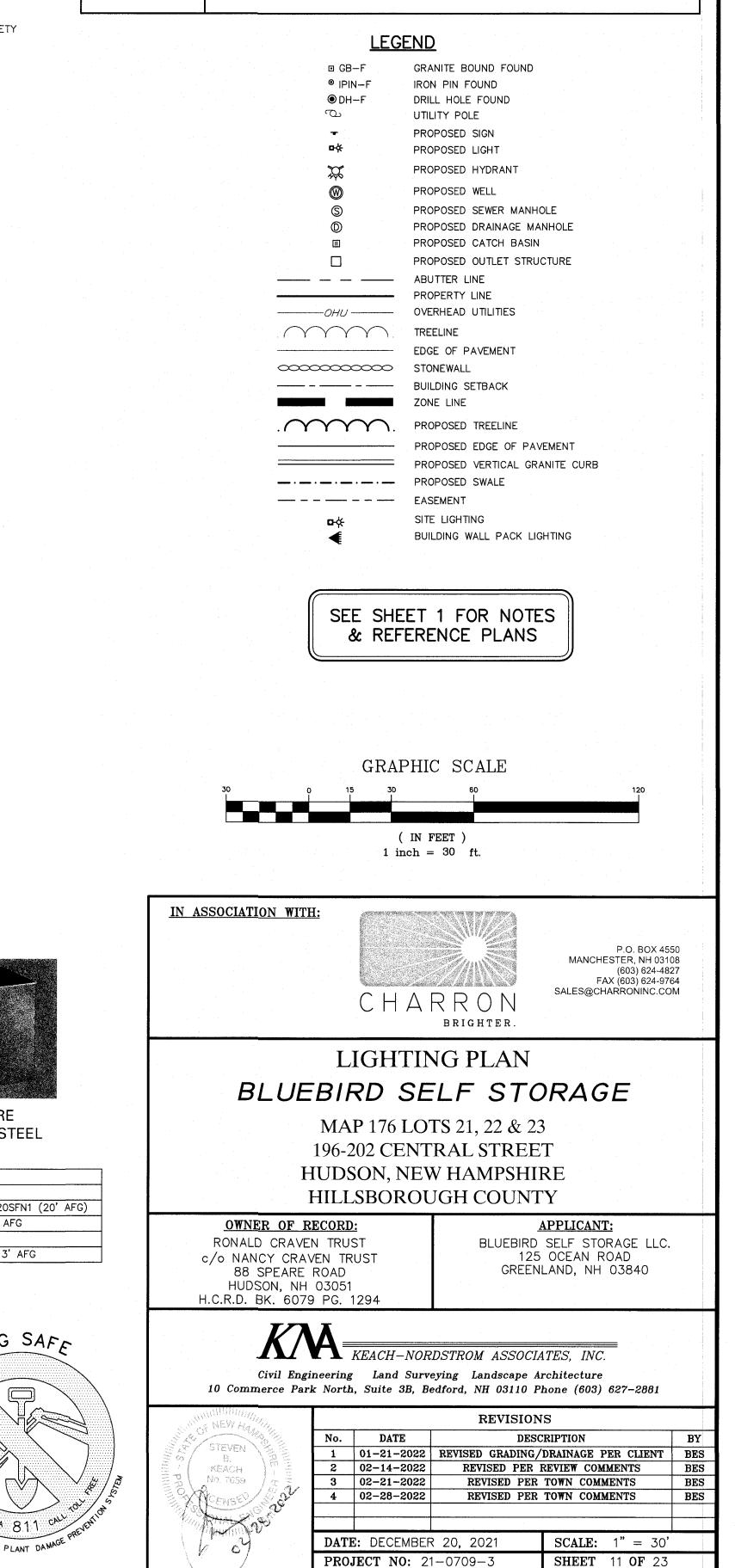
PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES TWO YEARS FROM DATE OF APPROVAL

Ļ	APPR(	<b>JAK</b>	) BY	THE	HUDSON,	NH	PLANNING	BOAR
۱ <b>۲</b>	DATE	OF	MEE	TING:				
-								

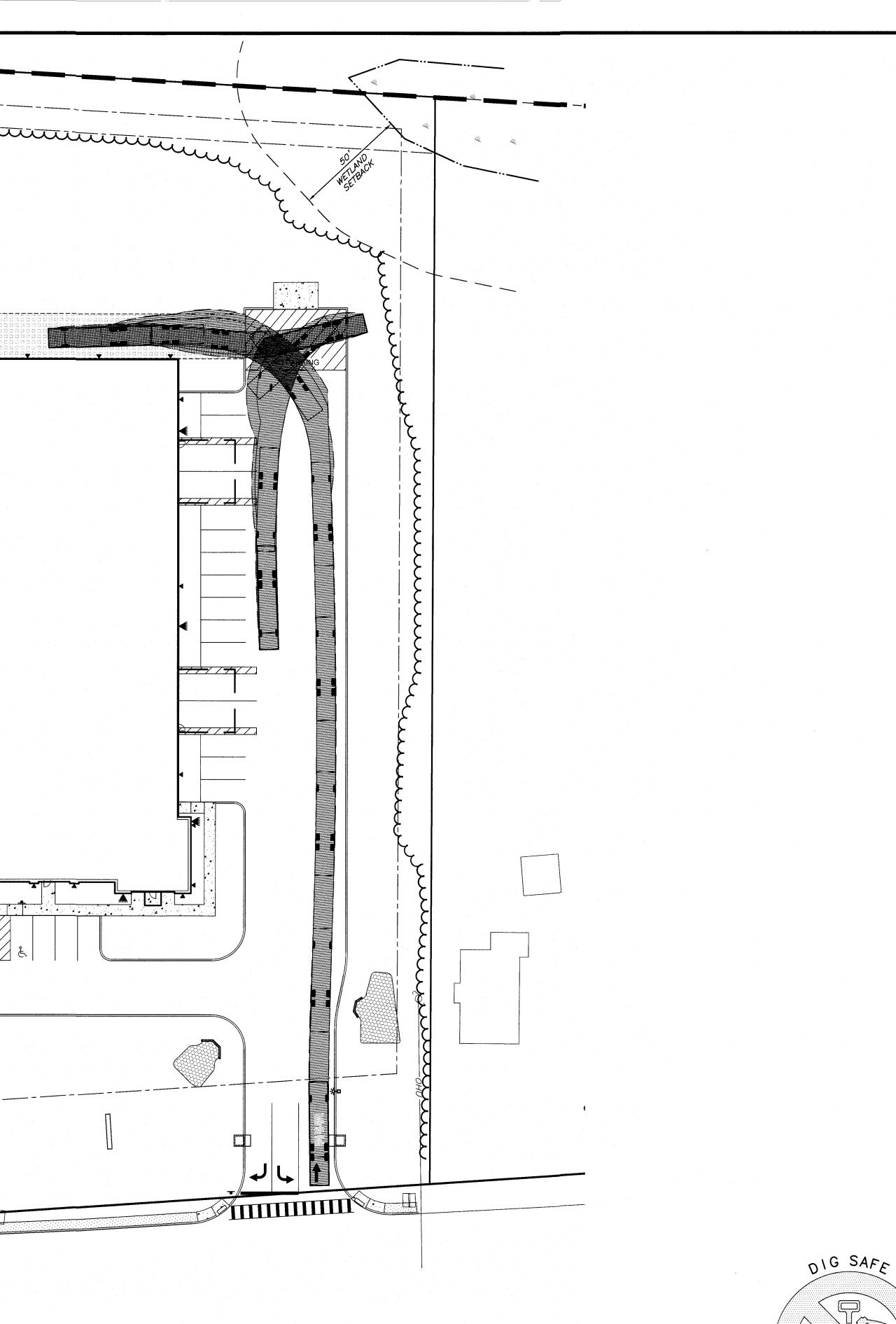
. SIGNATURE DATE: ___

SIGNATURE DATE:

EXPIRES TWO<br/>YEARS FROM DATE<br/>OF APPROVALSITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD<br/>MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING<br/>BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

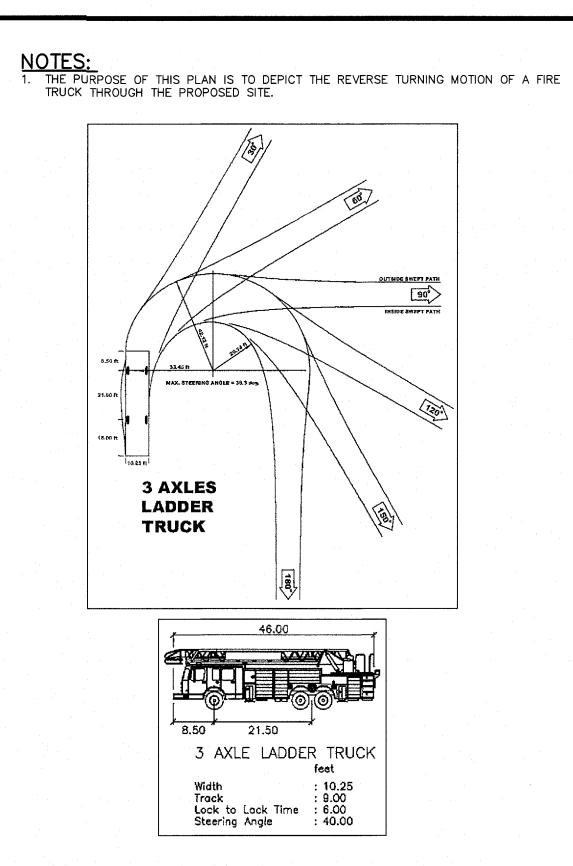


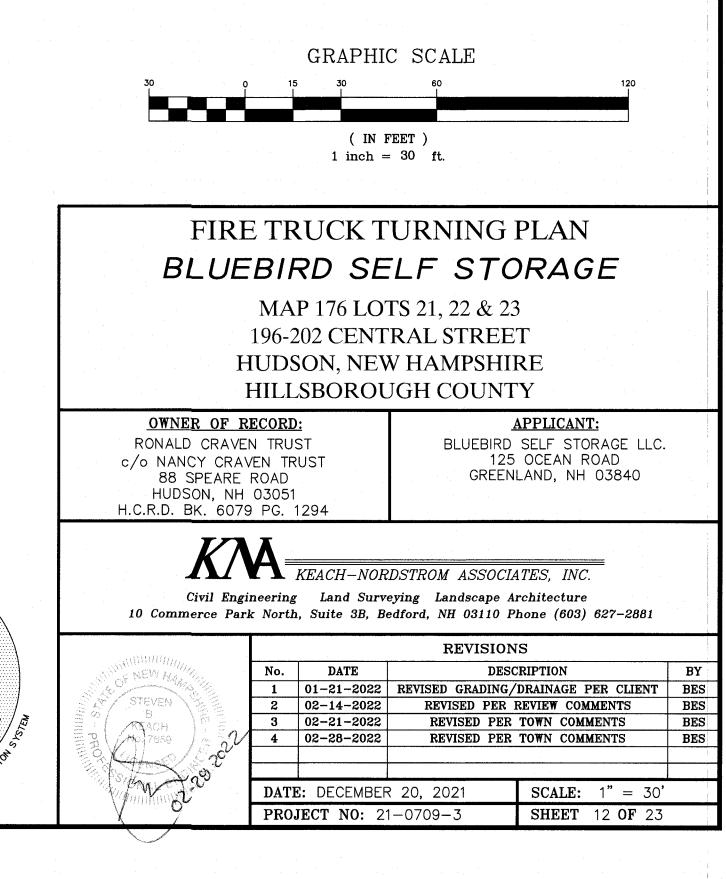
ton	tttttt
PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES TWO YEARS FROM DATE OF APPROVAL	

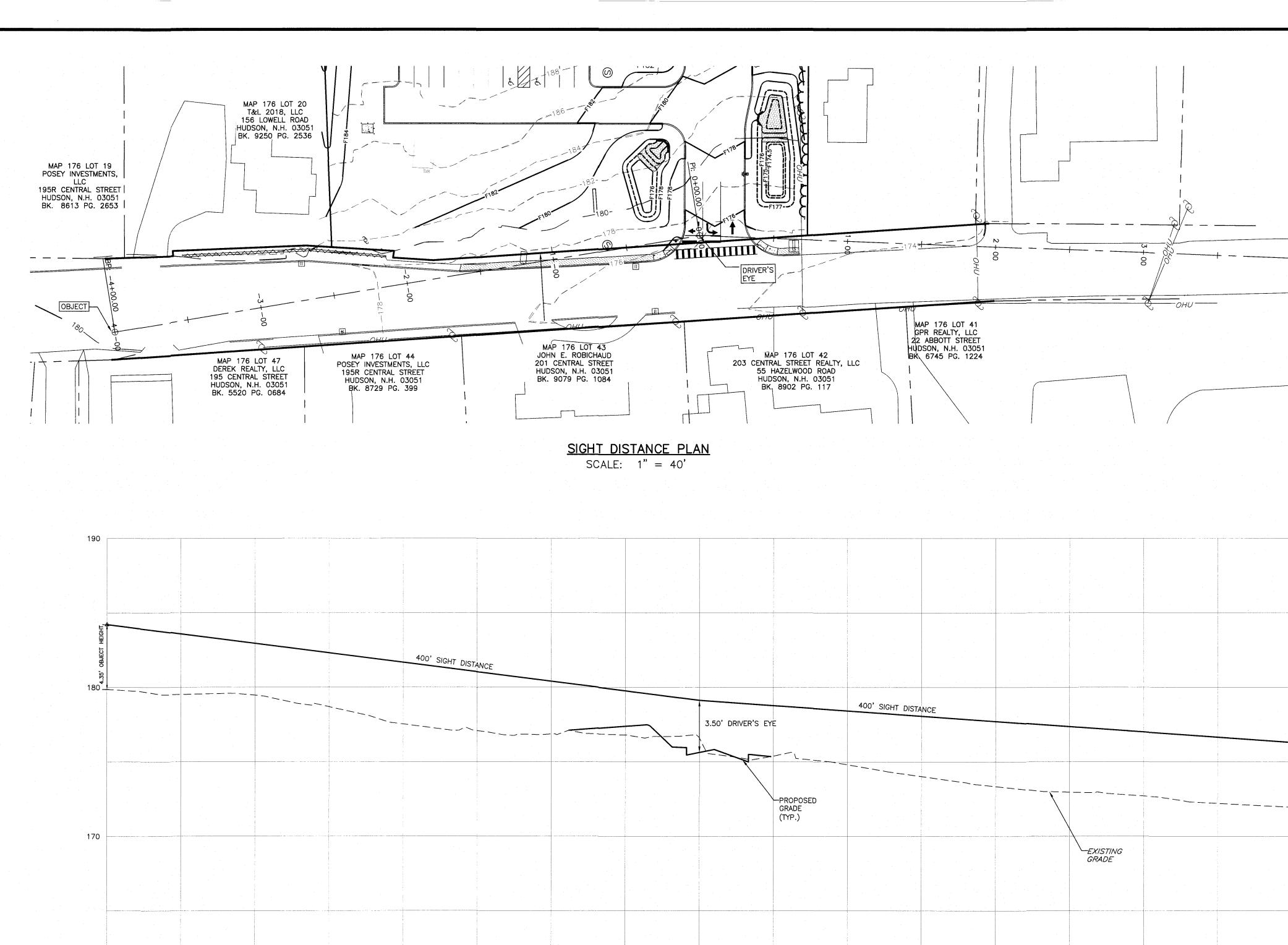


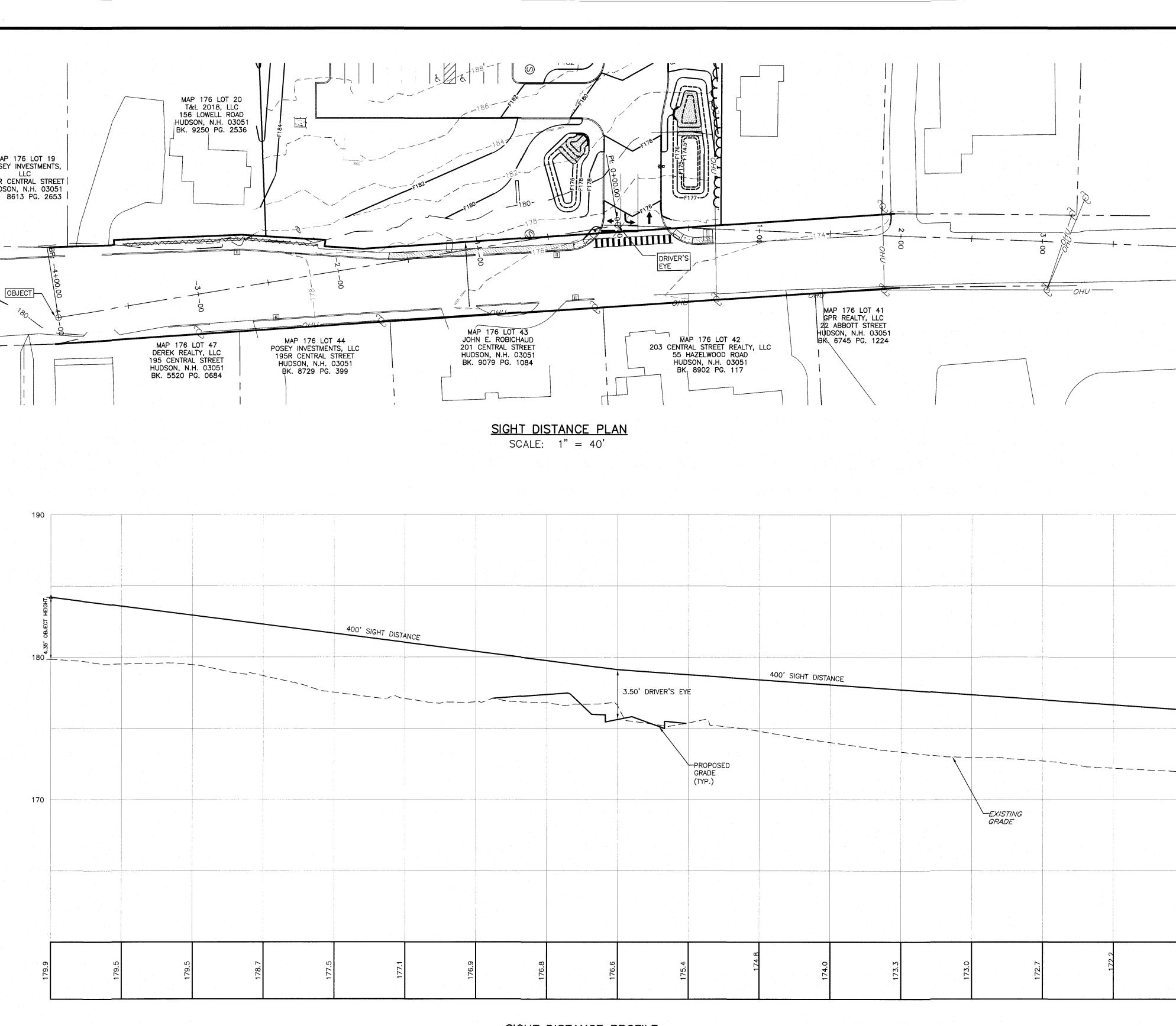
•

A ROPOLNO PLANT DAMA



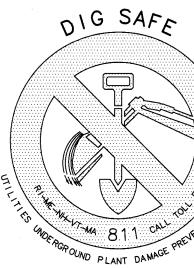






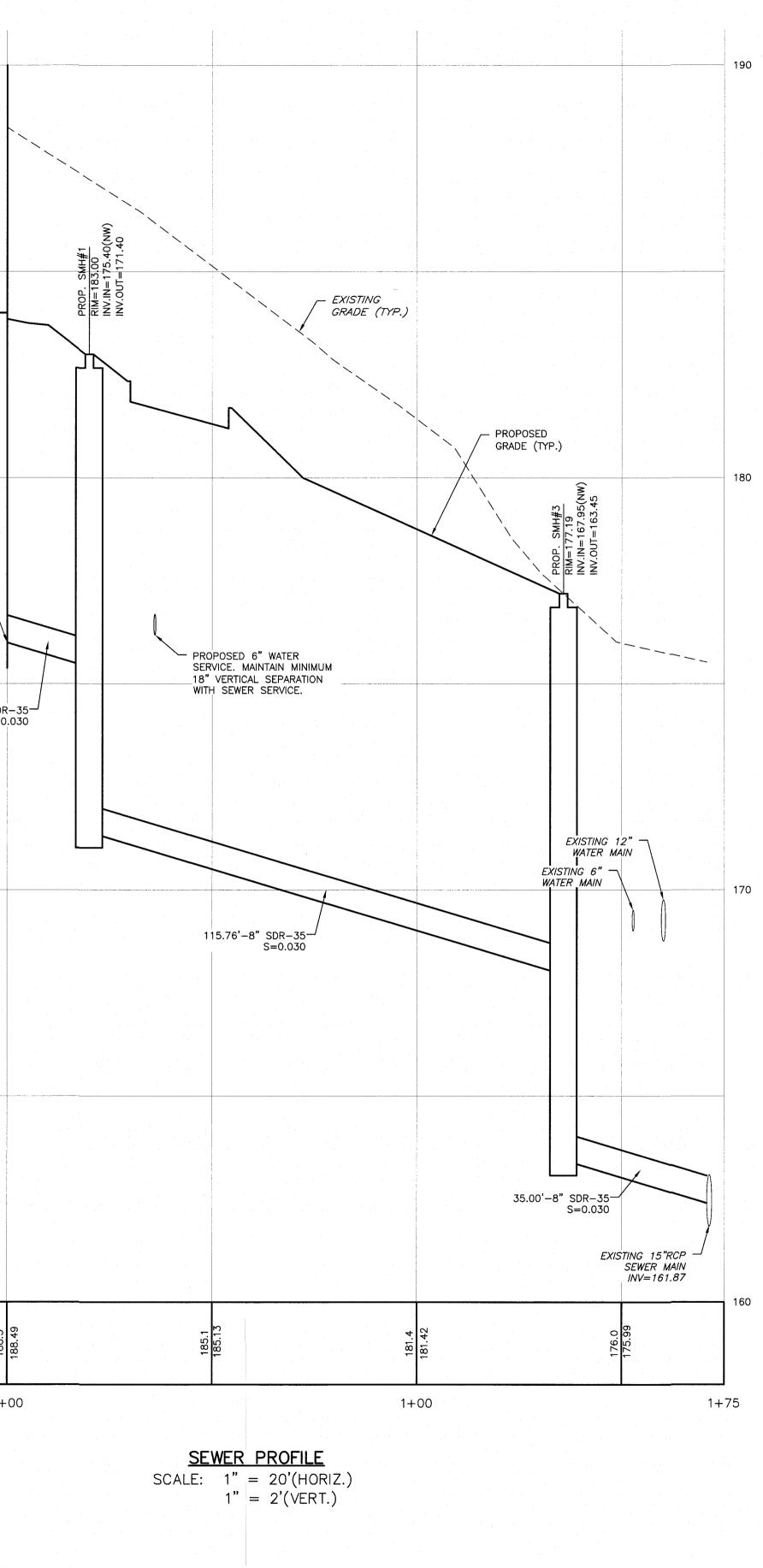
	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
REGULATIONS OF THE HUDSON PLANNING BOARD,	SIGNATURE DATE:
THE SITE PLAN APPROVAL GRANTED HEREIN	SIGNATURE DATE:
EXPIRES TWO YEARS FROM DATE OF APPROVAL	SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

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



	NOTES:				
	GRADES) FOUND	WAS CALCULATED USING IN AASHTO'S, "A POLIC' 'H EDITION" AS REQUIRE	ON GEOMETRIC DES	NG SIGHT DISTANCE ON GN OF HIGHWAYS AND ).	
EP: 4+00.00					
OBJECT					
	TT A				
		LEG	END		
190			UTILITY POLE ABUTTER LINE PROPERTY LINE OVERHEAD UTILI' TREELINE EDGE OF PAVEM VERTICAL GRANI BITUMINOUS CUR 10' CONTOUR 2' CONTOUR BUILDING SETBAI	ENT TE CURB 18	
180 180		- ■ © 	PROPOSED SIGN PROPOSED LIGH PROPOSED DRAIL PROPOSED CATO PROPOSED TREE PROPOSED EDGE PROPOSED BITUL PROPOSED 2' CO PROPOSED 2' CO	T NAGE MANHOLE CH BASIN LINE OF PAVEMENT MINOUS CURB DNTOUR	
170	40 O	₽¥ GRAPHIC 20 40	SITE LIGHTING	160	
		( IN F 1 inch =			
160 5 12	BLUE	DISTANCE BIRD SE MAP 176 LO 196-202 CENT IUDSON, NEV HILLSBOROU	T <b>LF STC</b> TS 21, 22 & 23 RAL STREE V HAMPSHII	<b>PRAGE</b> 5 T RE	
	OWNER OF R RONALD CRAVE c/o NANCY CRAV 88 SPEARE HUDSON, NH H.C.R.D. BK. 6079	N TRUST /EN TRUST ROAD 03051	BLUEBIRD 125	APPLICANT: SELF STORAGE LLC. OCEAN ROAD LAND, NH 03840	
	5	KEACH-NOR neering Land Surve k North, Suite 3B, Be		rchitecture hone (603) 627-2881	
His Son	STEVEN STEVEN B KEACH Do 7658 ONAL SONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL CONAL C	No.         DATE           1         01-21-2022           2         02-14-2022           3         02-21-2022           4         02-28-2022           DATE         DECEMBER	DESC REVISED GRADING/ REVISED PER I REVISED PER REVISED PER	S RIPTION DRAINAGE PER CLIENT REVIEW COMMENTS TOWN COMMENTS TOWN COMMENTS SCALE: 1" = 40'	BY BES BES BES
	<u> </u>	PROJECT NO: 21		SHEET 13 OF 23	

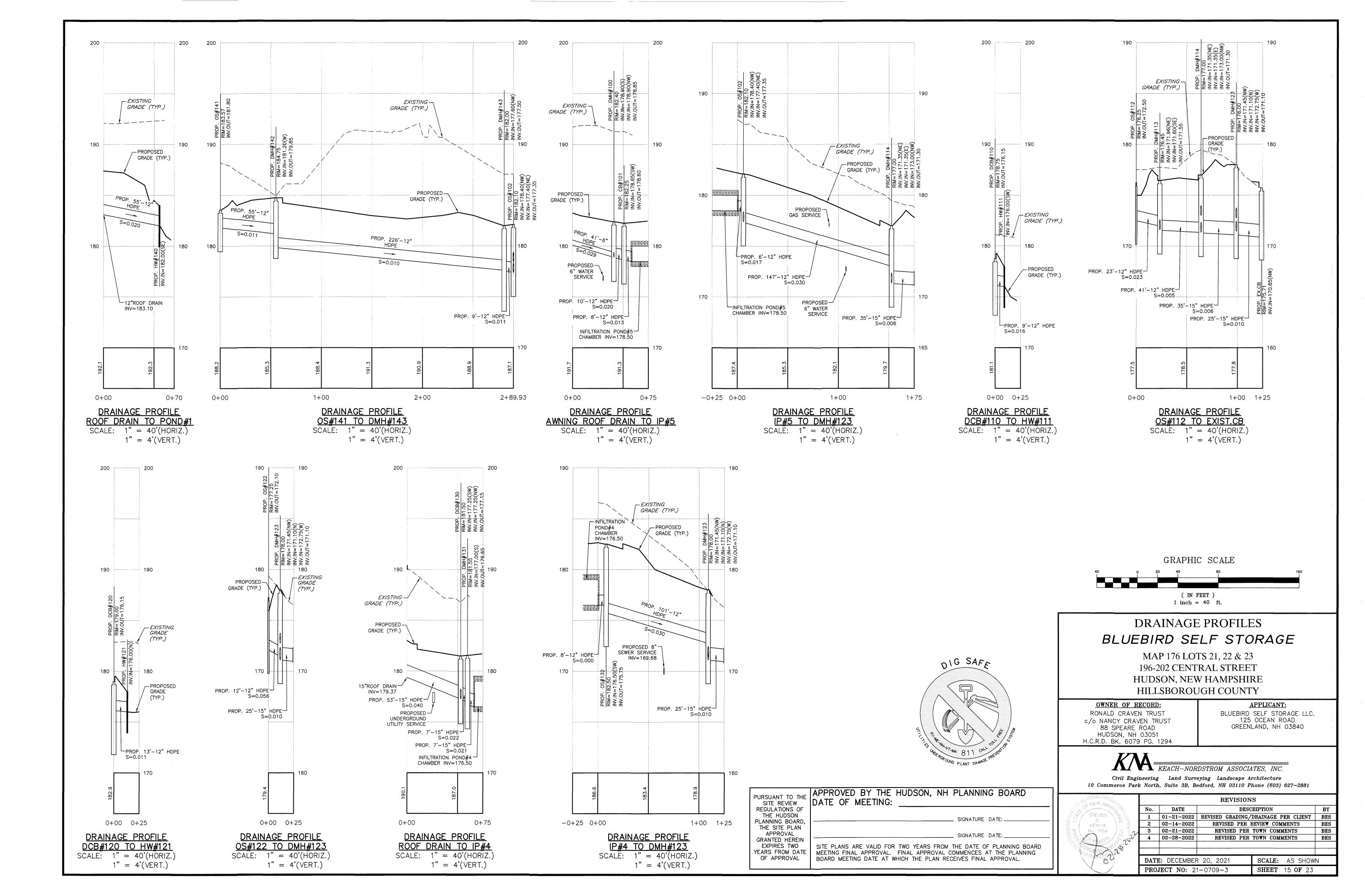
						190 —	
						- - - - - -	FFE=184.00
						180	- · · ·
						SE	BUILDING 8" WER SERVICE INV=176.00
				алар •			20.00'-8" SDR- S=0.1
						170	
							10
							188.5
						ــا 2+0-	25 0+0
PURSUANT TO THE SITE REVIEW RECILLATIONS OF	APPROVE DATE OF	D BY THE MEETING:	HUDSON, NH	H PLANNING BO	DARD		
REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL				SIGNATURE DATE:			
GRANTED HEREIN EXPIRES TWO	SITE PLANS	ARE VALID FOR	TWO YEARS FROM	SIGNATURE DATE: M THE DATE OF PLAN	INING BOARD		
YEARS FROM DATE OF APPROVAL	MELTING FIN BOARD MEE	IAL APPROVAL. TING DATE AT W	HINAL APPROVAL	COMMENCES AT THE RECEIVES FINAL APPRO	PLANNING DVAL.		

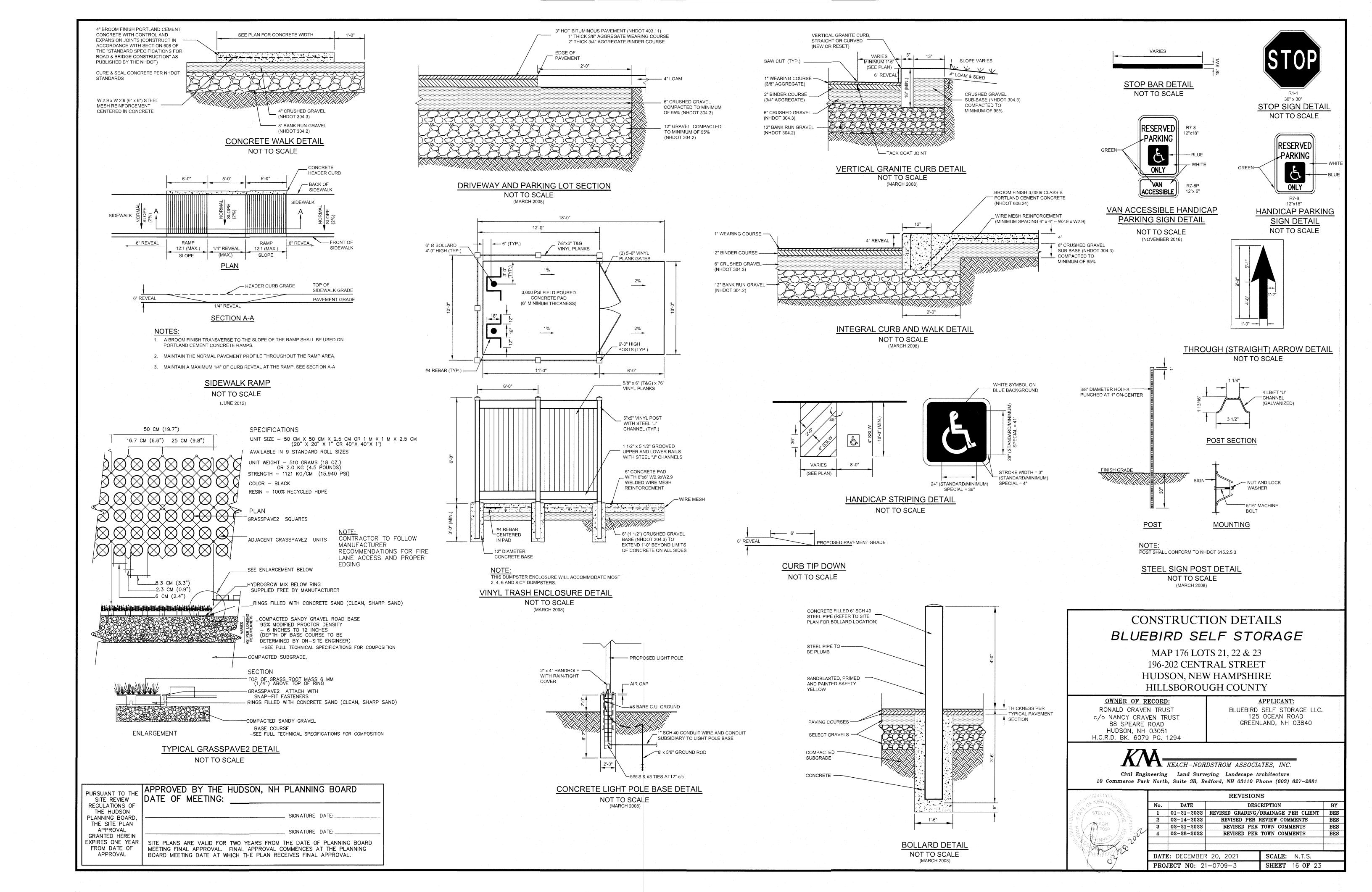


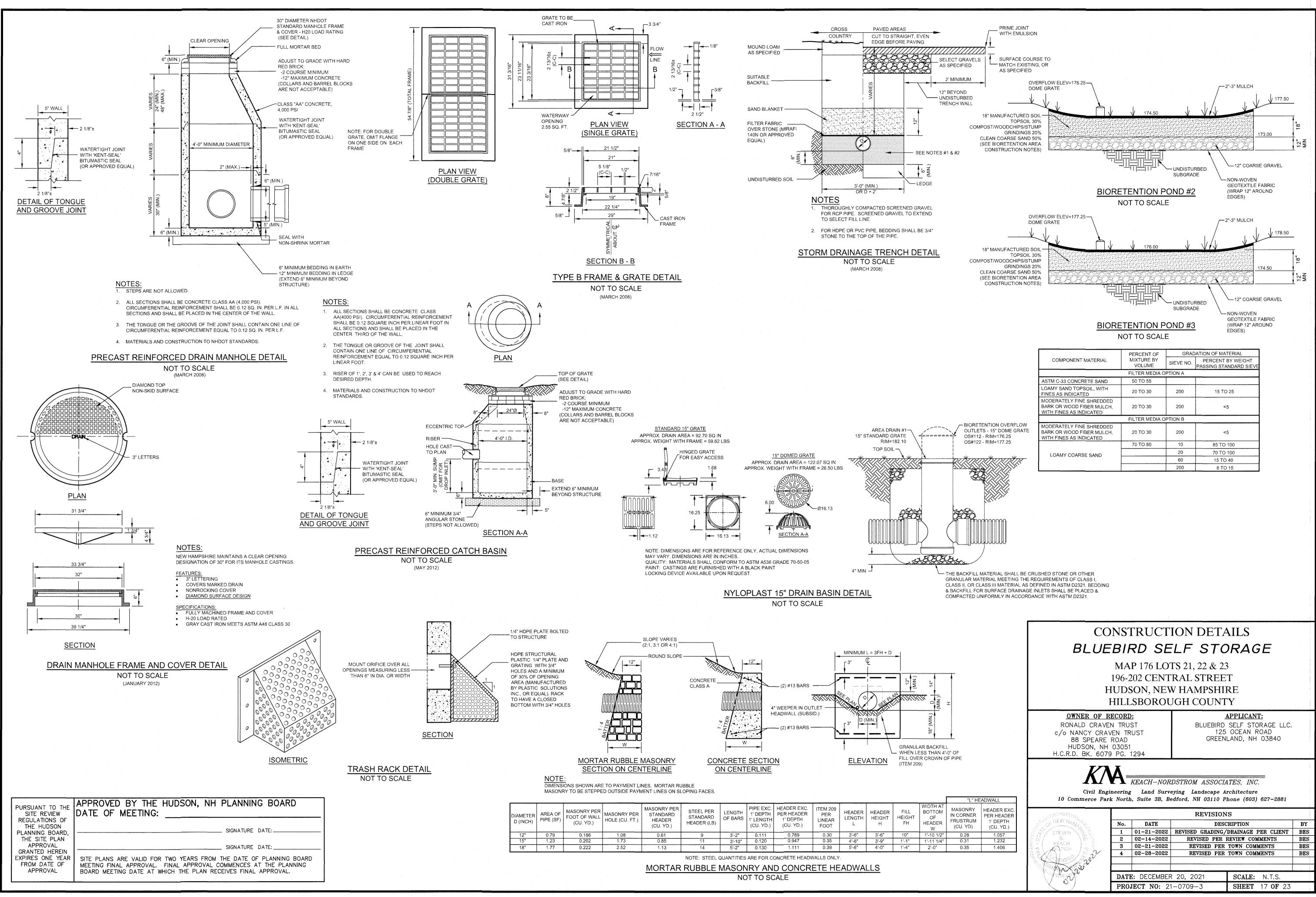
DIG SAFE  $\square$ 

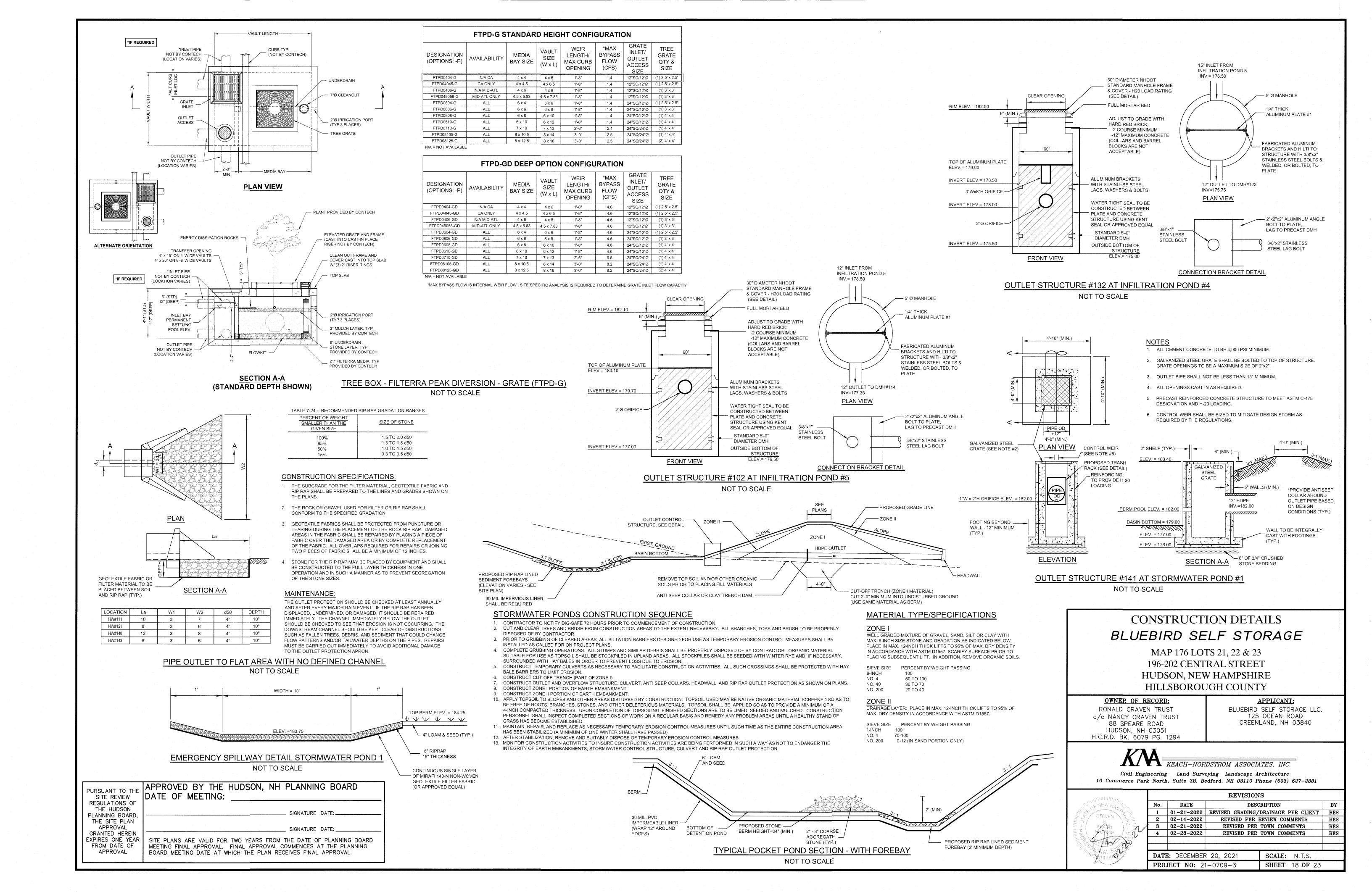
•

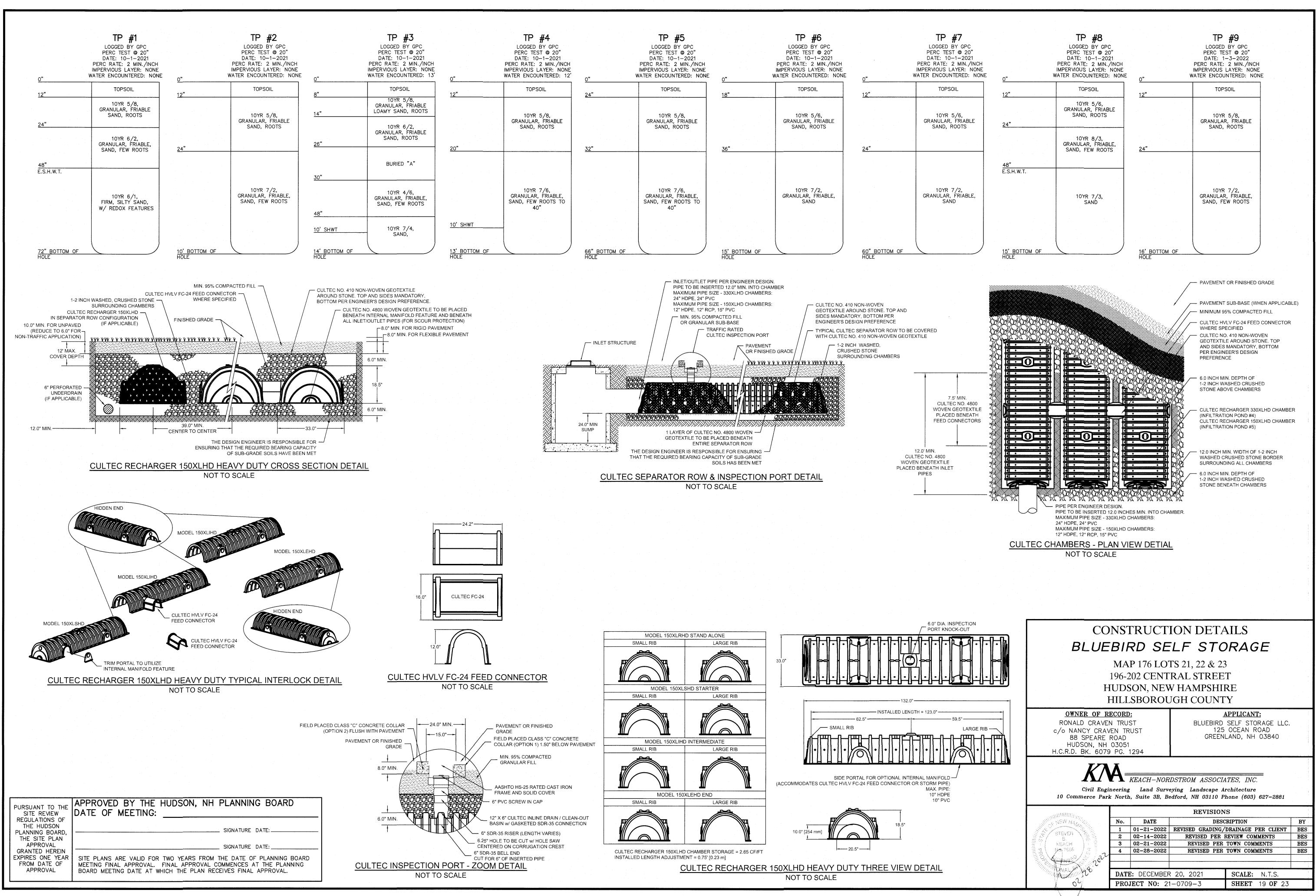
<b>20</b> o	GRAPHI(	C SCALE	80	
	( IN F	'EET )		
	1 inch =	20 ft.		
BLUE	SEWER I BIRD SE		RAGE	
	MAP 176 LOT	FS 21, 22 & 23	3	
H	196-202 CENT UDSON, NEV	V HAMPSHII	RE	
OWNER OF RE	HILLSBOROU		Y APPLICANT:	
RONALD CRAVEN c/o NANCY CRAV 88 SPEARE F	N TRUST EN TRUST	BLUEBIRD 125	SELF STORAGE LLC. OCEAN ROAD LAND, NH 03840	·
HUDSON, NH H.C.R.D. BK. 6079	03051		· · · ·	
K	KEACH-NOR	DSTROM ASSOCIA	ATES, INC.	
	neering Land Surve	ying Landscape A		
SF NEW HAMS	No. DATE		RIPTION	BY
STEVEN RESERVEN BACH PRO BOO STEVEN BACH PRO STEVEN BACH STEVEN BACH STEVEN BACH STEVEN BACH STEVEN BACH STEVEN BACH STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEVEN STEV	1         01-21-2022           2         02-14-2022           3         02-21-2022           4         02-28-2022	REVISED PER I REVISED PER	DRAINAGE PER CLIENT REVIEW COMMENTS TOWN COMMENTS TOWN COMMENTS	BES BES BES BES
NAL STATE			······································	· · · ·
	DATE: DECEMBER PROJECT NO: 21		SCALE:ASSHOWSHEET14OF23	in _i











#### CULTEC RECHARGER® 150XLHD SPECIFICATIONS

#### GENERAL

CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFE

#### CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR

- 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
- 4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 5. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- 6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.5 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
- 7. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (300 mm) HDPE OR 15" (375 mm) SMOOTH-WALL PVC.
- 8. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
- 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV® FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (615 mm) LONG.
- 10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER SHALL BE 2.650 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.16 FT3 / UNIT (0.77 m3 / UNIT) -WITHOUT STONE.
- 11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- 12. THE RECHARGER 150XLHD CHAMBER SHALL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- 13. THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
- 14. THE ENDWALL OF THE CHAMBER. WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- 15. THE RECHARGER 150XLRHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE ENDWALLS.
- 16. THE RECHARGER 150XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
- 17. THE RECHARGER 150XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
- 18. THE RECHARGER 150XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- 19. THE HVLV® FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS
- 20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- 21. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- 22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- 23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY. 24. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN
- INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. 25. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED TO MEET THE MATERIAL AND STRUCTURAL REQUIREMENTS OF IAPMO PS 63-2019, INCLUDING RESISTANCE TO AASHTO H-10 AND H-20 HIGHWAY LIVE LOADS, WHEN INSTALLED IN ACCORDANCE
- 26. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATION OF NSAI IRISH AGREEMENT BOARD CERTIFICATE FOR CULTEC ATTENUATION AND INFILTRATION.

27. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.65 m).

WITH CULTEC'S INSTALLATION INSTRUCTIONS.

#### CULTEC RECHARGER® 330XLHD PRODUCT SPECIFICATIONS

#### GENERAL

CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF

- CHAMBER PARAMETERS
- 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. USA. (203-775-4416 OR 1-800-428-5832)
- 2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
- 4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 5. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS
- 6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 m).
- 7. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES (600 mm) HDPE
- 8. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL SHALL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).
- 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- 10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7.459 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.213 FT³ / UNIT (1.478 m³ / UNIT) - WITHOUT STONE.
- 11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- 12. THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- 13. THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
- 14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT
- 15. THE RECHARGER 330XLRHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- 16. THE RECHARGER 330XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
- 17. THE RECHARGER 330XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
- 18. THE RECHARGER 330XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- 19. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.
- 20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- 21. THE CHAMBER SHALL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- 22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- 23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY
- 24. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED TO MEET THE MATERIAL AND STRUCTURAL REQUIREMENTS OF JAPMO PS 63-2019, INCLUDING RESISTANCE TO AASHTO H-10 AND H-20 HIGHWAY LIVE LOADS, WHEN INSTALLED IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS.
- 25. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATIONS OF NSALIRISH AGREEMENT BOARD CERTIFICATE FOR CULTEC ATTENUATION AND INFILTRATION.

26.MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m)

27. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

PURSUANT TO THE SITE REVIEW	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
REGULATIONS OF THE HUDSON PLANNING BOARD,	SIGNATURE DATE:
THE SITE PLAN APPROVAL GRANTED HEREIN	SIGNATURE DATE:
EXPIRES ONE YEAR FROM DATE OF APPROVAL	SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

#### CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

GENERAL

- 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
- 4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- 6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- 7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
- 8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- 9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.

#### CULTEC NO. 410[™] NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

#### GEOTEXTILE PARAMETERS

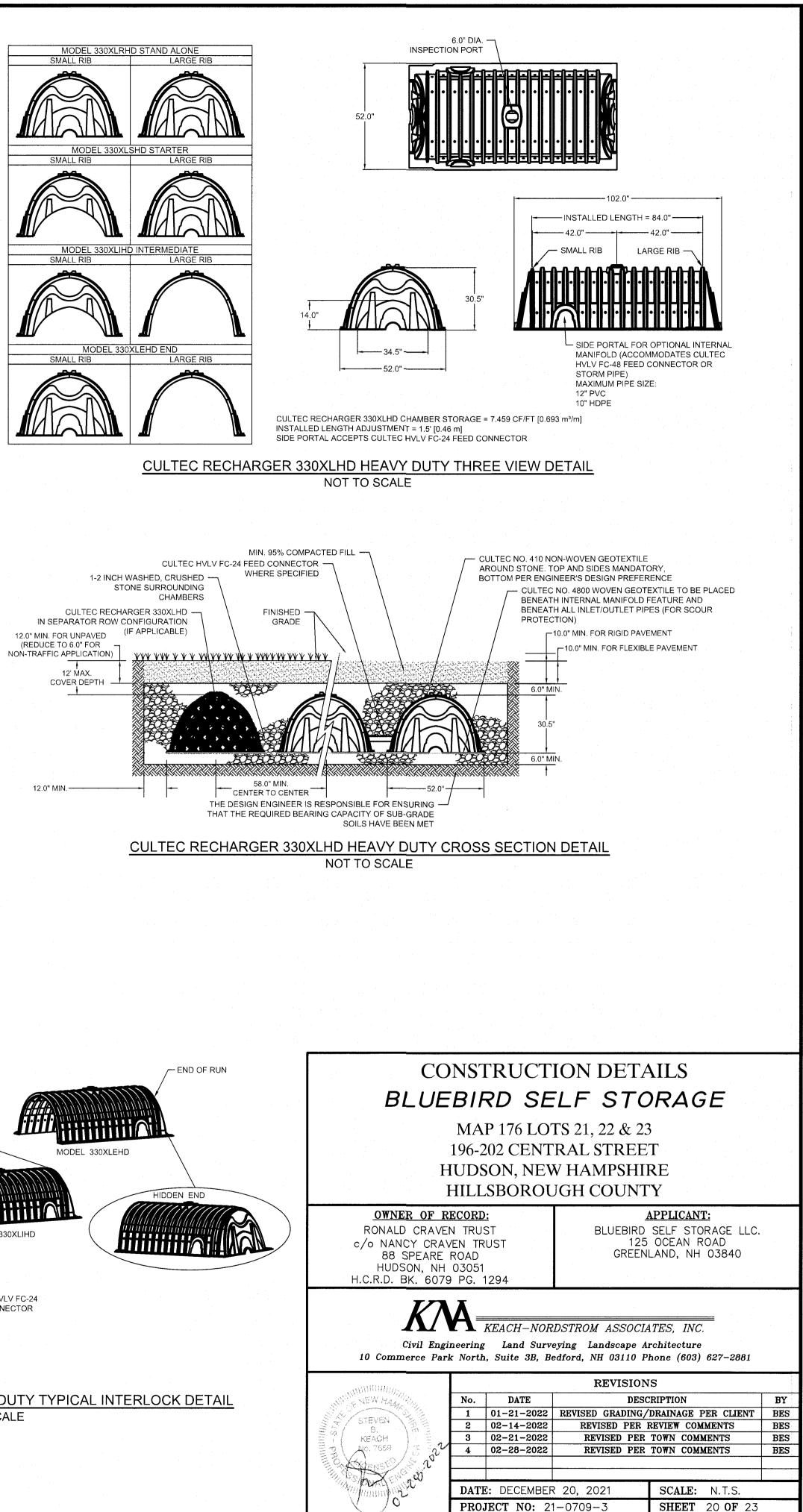
- 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- 3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
- 4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
- 5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
- 6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
- 7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
- 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
- 9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
- 10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
- 11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
- 12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
- 13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

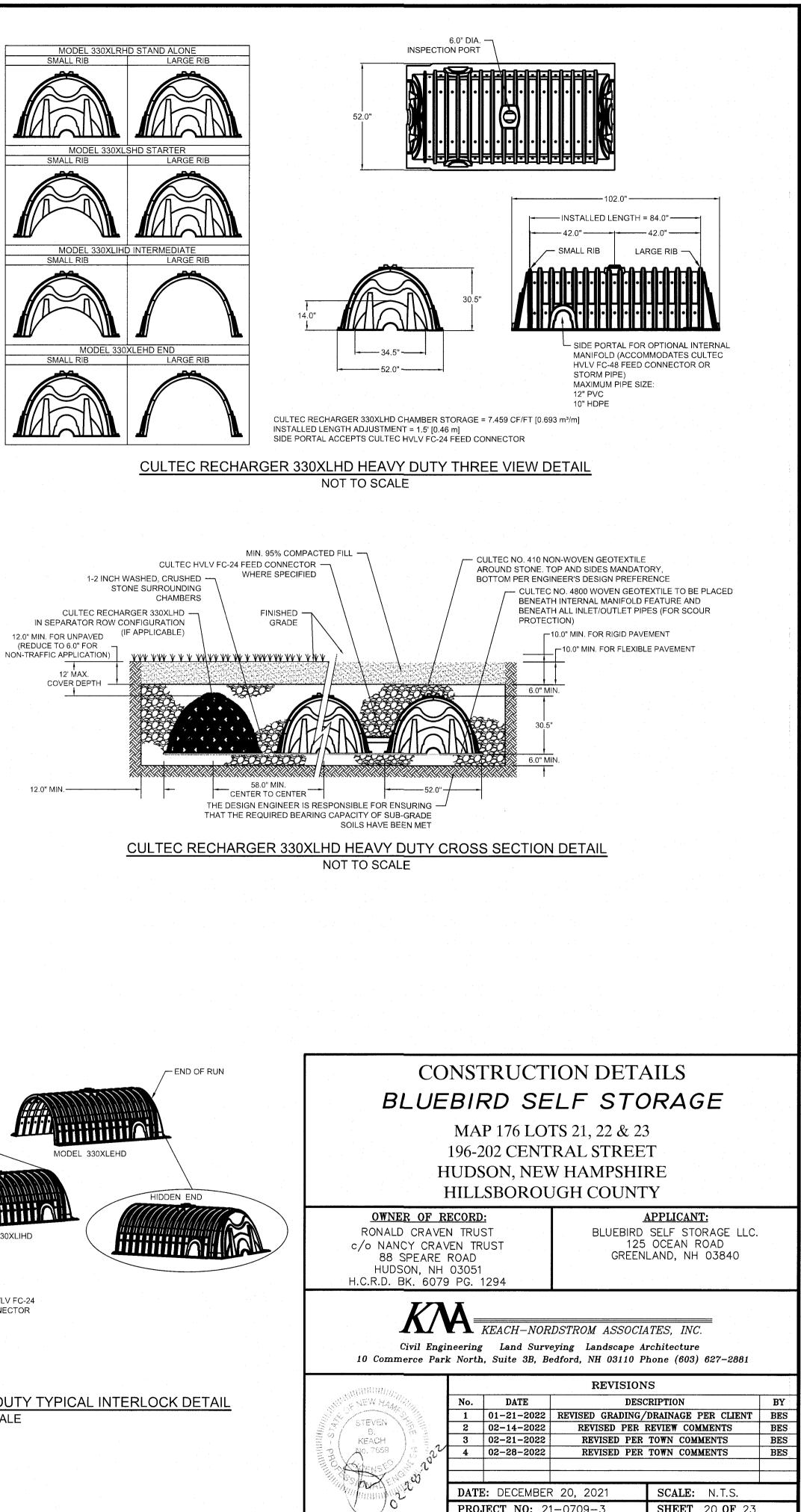
#### CULTEC NO. 4800[™] WOVEN GEOTEXTILE

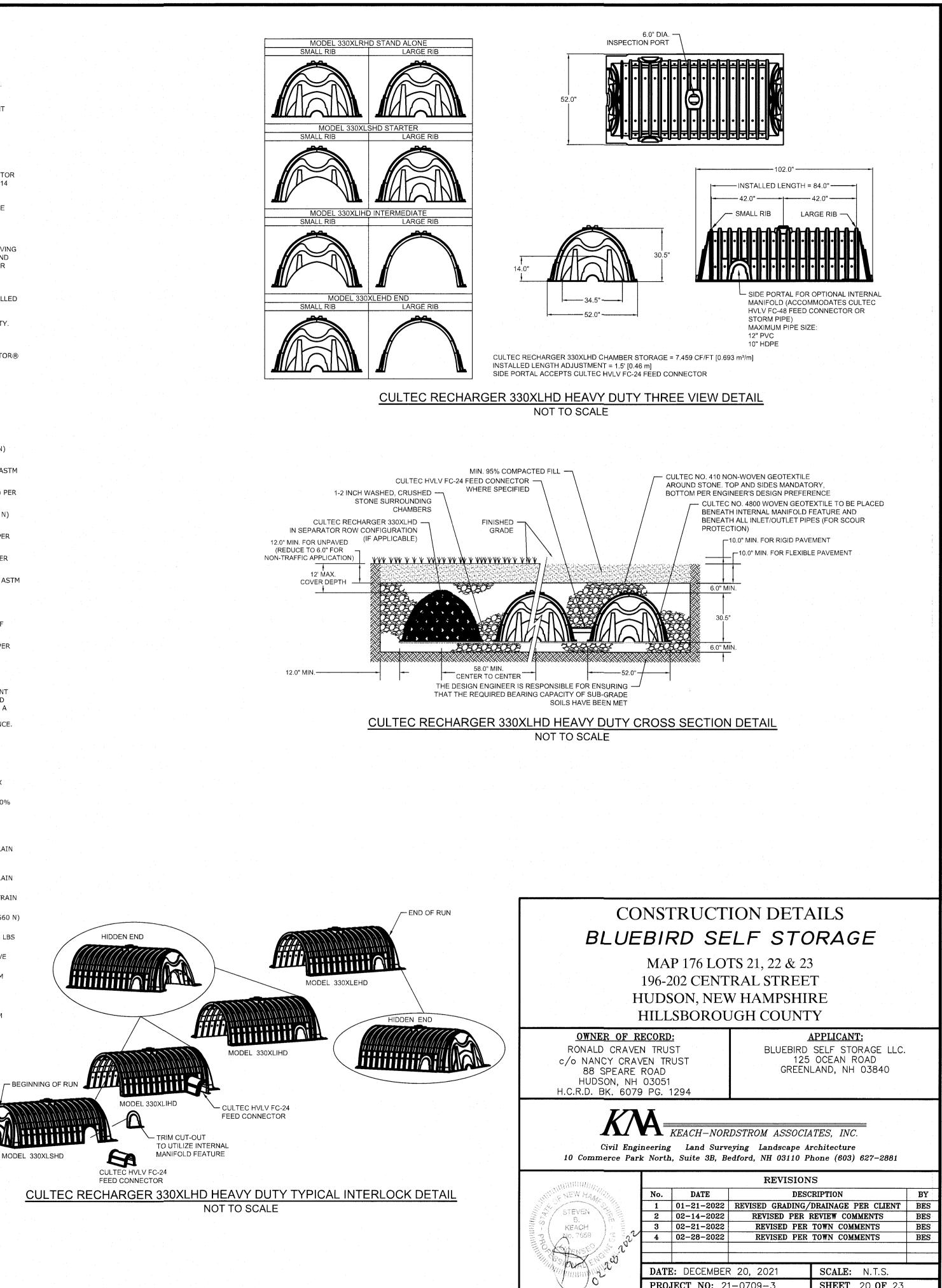
CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

#### **GEOTEXTILE PARAMETERS**

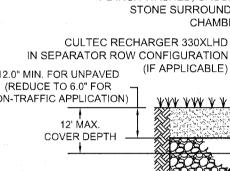
- 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- 3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
- 4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
- 5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1.096 LBS/FT
- (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN
- OF 2,740 X 2, 740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
- 8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN
- OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD. 9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD
- 10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
- 11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
- 12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD. 13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470
- LPM/M2) PER ASTM D4491 TESTING METHOD. 14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM
- D4355 TESTING METHOD.

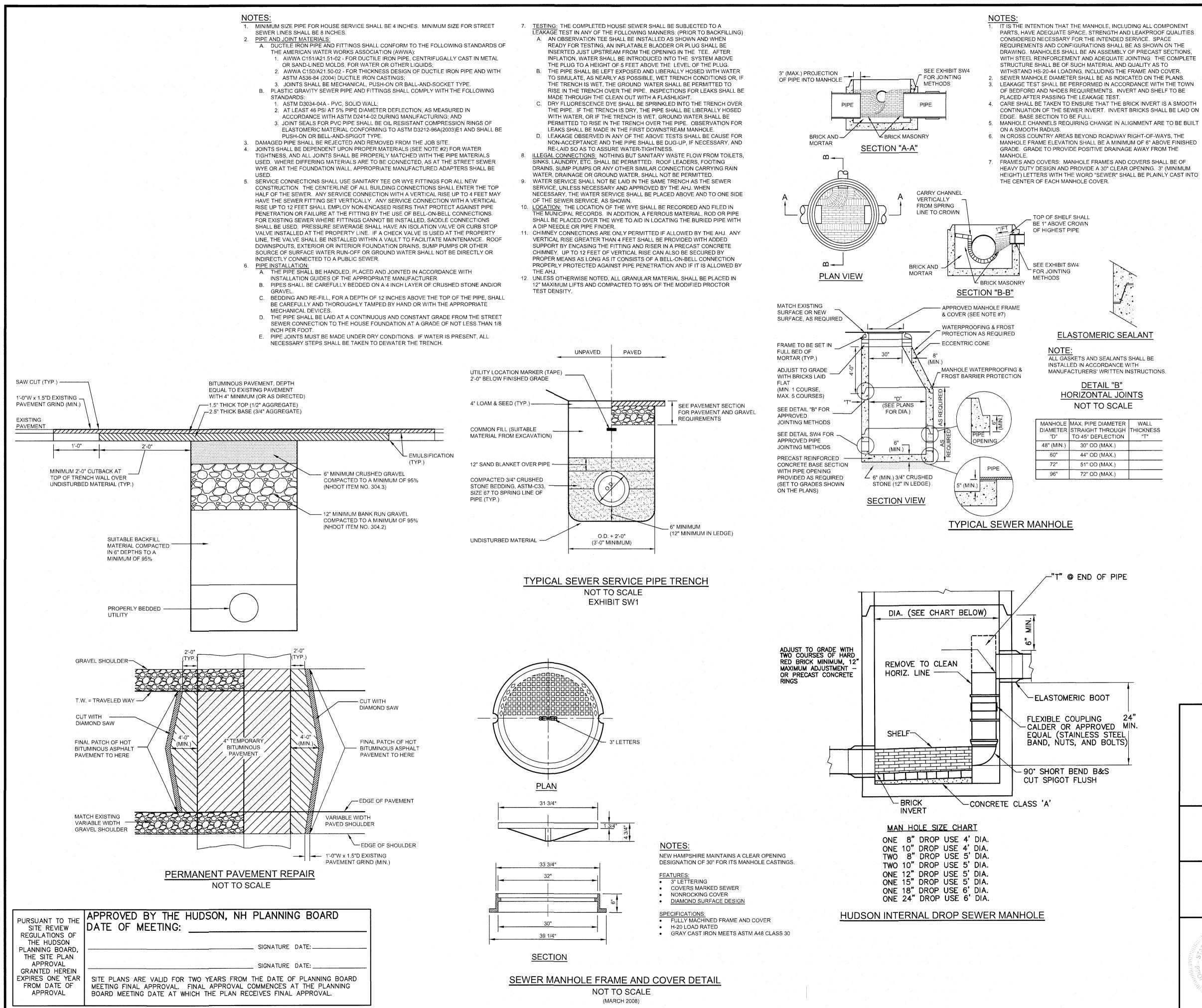


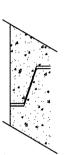












METER ROUGH CTION	WALL THICKNESS "T"
X.)	
X.)	
X.)	
X.)	

1. ALL COMPONENT PARTS OF MANHOLE STRUCTURES SHALL HAVE THE STRENGTH, LEAK RESISTANCE AND SPACE NECESSARY FOR THE INTENDED SERVICE. MANHOLE STRUCTURES SHALL HAVE A LIFE EXPECTANCY IN EXCESS OF 25 YEARS.

3. MANHOLE STRUCTURES SHALL BE DESIGNED TO WITHSTAND H-20 LOADING AND SHALL NOT LEAK IN EXCESS OF ONE GPD PER VERTICAL FOOT OF MANHOLE FOR THE LIFE OF THE STRUCTURE. BARRELS, CONCRETE GRADE RINGS AND CONE SECTIONS SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE AND SHALL CONFORM TO ASTM C478. BEDDING: CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33

100% PASSING 1 INCH SCREEN 90% PASSING 3/4 INCH SCREEN

20-55% PASSING 3/8 INCH SCREEN

0-10% PASSING #4 SIEVE 0-5% PASSING #8 SIEVE

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED. BASE SECTIONS SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6 INCHES ABOVE THE CROWN OF THE INCOMING PIPE.

HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF AN OVERLAPPING TYPE, SEALED FOR WATER-TIGHTNESS USING A DOUBLE ROW OF AN ELASTOMERIC OR MASTIC-LIKE SEALANT. PIPE TO MANHOLE JOINTS SHALL BE AS FOLLOWS:

A. ELASTOMERIC, RUBBER SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES:

- B. CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS C. ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND D. NON-SHRINK GROUTED JOINTS WHERE WATERTIGHT BONDING TO THE MANHOLE AND
- PIPE CAN BE OBTAINED. 9. MANHOLE CONE SECTIONS SHALL BE ECCENTRIC IN SHAPE.
- 10. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL. 11. ALL PRECAST SECTIONS AND BASES SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING.
- 12. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.
- 13. MATERIALS OF CONSTRUCTION FOR MANHOLES SHALL BE AS FOLLOWS. A. CONCRETE FOR PRECAST BASES OR GRADE RINGS SHALL CONFORM TO THE REQUIREMENTS FOR CLASS AA CONCRETE IN THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
  - B. REINFORCING FOR PRECAST CONCRETE SHALL BE STEEL OR STRUCTURAL FIBERS THAT CONFORM TO THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
  - CONSTRUCTION" C. PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL BE CERTIFIED BY
  - THEIR MANUFACTURE(S) AS CONFORM TO ASTM C478; D. THE MANHOLE FRAME AND COVER SHALL PROVIDE A 30-INCH DIAMETER CLEAR OPENING;
  - E. THE MANHOLE COVER SHALL HAVE THE WORD "SEWER" IN 3-INCH LETTERS CAST INTO THE TOP SURFACE;
  - F. THE CASTINGS SHALL BE OF EVEN-GRAINED CAST IRON, SMOOTH AND FREE FROM SCALE, LUMPS, BLISTERS, SAND HOLES AND DEFECTS; G. CONTACT SURFACES OF COVERS AND FRAMES SHALL BE MACHINED AT THE FOUNDRY TO
  - PREVENT ROCKING OF COVERS IN ANY ORIENTATION; H. CASTINGS SHALL BE EQUAL TO CLASS 30, BE CERTIFIED BY THEIR MANUFACTURE(S) AS CONFORMING TO ASTM A48/48M
  - BRICK MASONRY FOR SHELF, INVERT AND GRADE ADJUSTMENT SHALL BE CERTIFIED BY THEIR MANUFACTURE(S) AS CONFORMING TO ASTM C32, CLAY OR SHALE, FOR GRADE SS HARD BRICK:
  - J. MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION:
  - K. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE: . 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR
  - 2. 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PARTS HYDRATED LIME; CEMENT SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150/C150M;
  - M. HYDRATED LIME SHALL BE TYPE S CONFORMING TO THE ASTM C207 "STANDARD
  - SPECIFICATIONS FOR HYDRATED LIME FOR MASONRY PURPOSES"; N. SAND SHALL CONSIST OF INERT NATURAL SAND CONFORMING TO THE ASTM C33
  - "STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES";
  - O. CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION";
  - P. SUBJECT TO (Q) BELOW, A FLEXIBLE PIPE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES FROM ANY MANHOLE CONNECTION: WITHIN 48-INCHES FOR REINFORCED CONCRETE (RC) PIPE; AND
  - 2. WITHIN 60-INCHES FOR PVC PIPE LARGER THAN 15-INCH DIAMETER; Q. NO FLEXIBLE JOINT SHALL BE REQUIRED FOR D.I. PIPE OR FOR PVC PIPE UP THROUGH
  - 15-INCH DIAMETER; AND R. WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED IN LIEU OF A CONE SECTION, PROVIDED THE SLAB HAS AN ECCENTRIC ENTRANCE OPENING AND IS CAPABLE OF SUPPORTING H-20 LOADS.

14. MANHOLE TESTING:

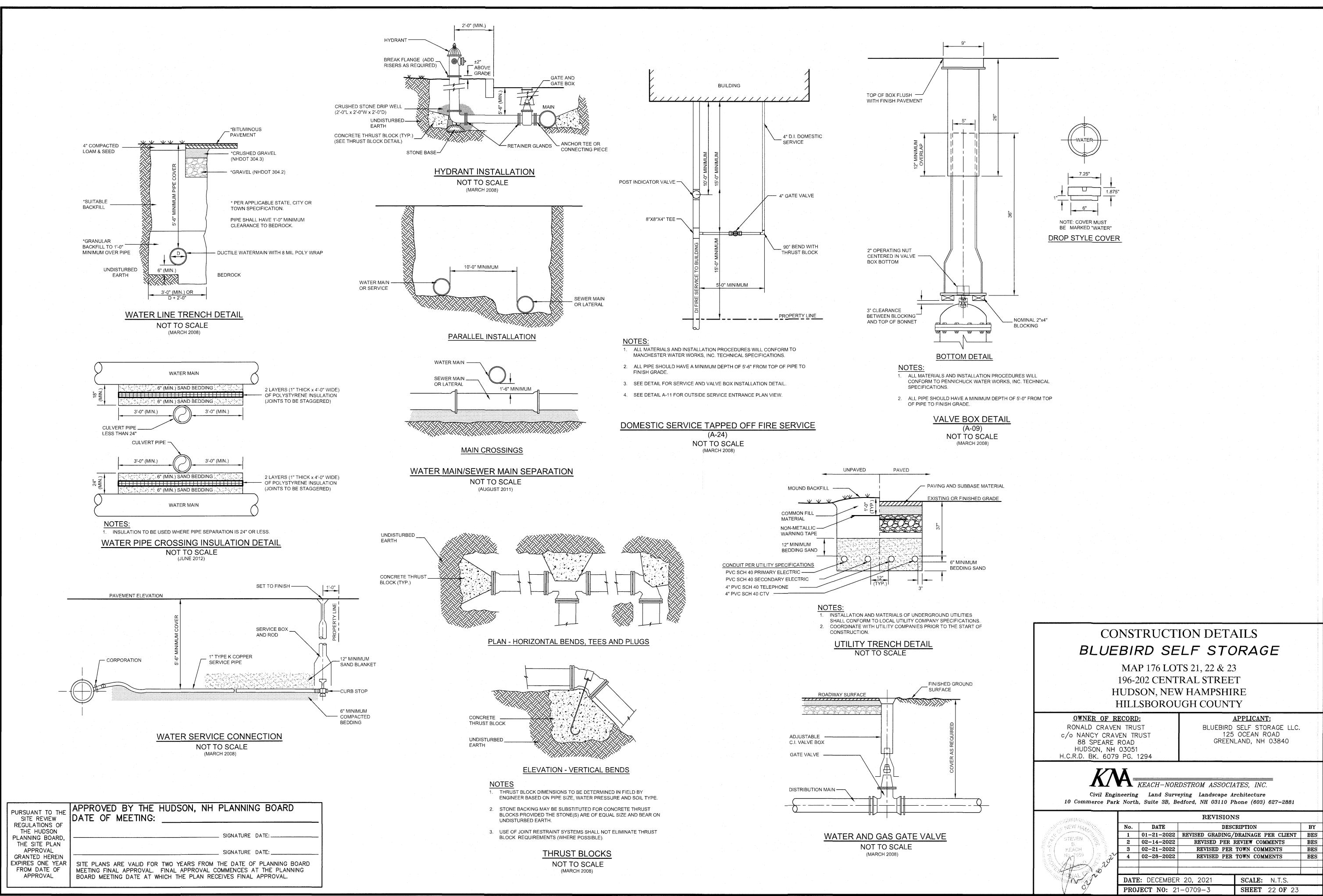
- A. MANHOLES SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST
- B. THE MANHOLE VACUUM TEST SHALL CONFORM TO THE FOLLOWING: 1. THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 10 INCHES Hg: AND 2. THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 1-INCH Hg PRESSURE DROP TO 9
- INCH Hg SHALL BE: a. NOT LESS THAN 2 MINUTES FOR MANHOLES LESS THAN 10 FEET DEEP IN DEPTH;
- b. NOT LESS THAN 2.5 MINUTES FOR MANHOLES 10 TO 15 FEET DEEP; AND c. NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP.
- C. THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE LIMITS SPECIFIED IN (B) ABOVE D. INVERTS AND SHELVES SHALL NOT BE INSTALLED UNTIL AFTER SUCCESSFUL TESTING IS
- COMPLETED E. FOLLOWING COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE
- PLACED ON THE TOP OF THE MANHOLE OR SOME OTHER MEANS USED TO PREVENT ACCIDENTAL ENTRY BY UNAUTHORIZED PERSONS, CHILDREN OR ANIMALS UNTIL THE CONTRACTOR IS READY TO MAKE FINAL ADJUSTMENTS TO GRADE.

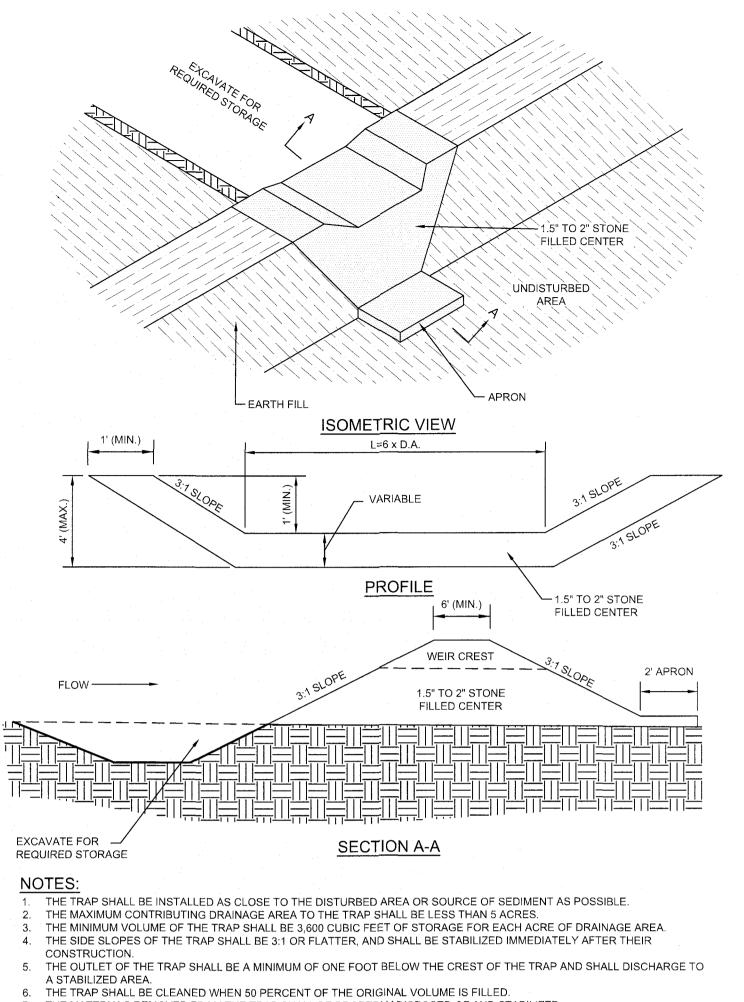
CONSTRUCTION DETAILS BLUEBIRD SELF STORAGE MAP 176 LOTS 21, 22 & 23 196-202 CENTRAL STREET HUDSON, NEW HAMPSHIRE HILLSBOROUGH COUNTY **APPLICANT: OWNER OF RECORD:** BLUEBIRD SELF STORAGE LLC. RONALD CRAVEN TRUST 125 OCEAN ROAD c/o NANCY CRAVEN TRUST GREENLAND, NH 03840 88 SPEARE ROAD HUDSON, NH 03051

	KN					
	KN	KEACH	I-NORDST.	ROM ASSOC	CIATES, INC	<i>7.</i>
	Civil Enginee	ering Lan	d Surveying	Landscape	Architectur	e
10 Com	merce Park N	lorth, Suite	3B, Bedfor	d, NH 03110	Phone (603	) 627–2881

H.C.R.D. BK. 6079 PG. 1294

ANNI MARKA	REVISIONS						
S NEW MAN MU	No.	DATE	DATE DESCRIPTION				
	1	01-21-2022	<b>REVISED GRADING</b> /	DRAINAGE PER CLIENT	BES		
SAR STEVEN VER	2	02-14-2022	REVISED PER	REVIEW COMMENTS	BES		
ET KEACH TE	3	02-21-2022	<b>REVISED PER</b>	TOWN COMMENTS	BES		
1 113 (AP) 2859 / 25 322	4	02-28-2022	<b>REVISED PER</b>	TOWN COMMENTS	BES		
and the second					1		
The two was					1		
X Miniman 24	SCALE: N.T.S.	:					
	PRO	<b>PROJECT NO:</b> 21–0709–3 <b>SHEET</b> 21 <b>OF</b> 23					





THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED. 8. SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED.

## TEMPORARY SEDIMENT TRAP DETAIL

#### NOT TO SCALE

## TURF ESTABLISHMENT SCHEDULE

#### PURPOSE

O 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. 6. DETERMINE APPROPRIATE MIXTURE FOR AREA TO BE SEEDED BASED ON EXAMINATION OF PROJECT PLANS. UNIFORMLY SPREAD THE SEED BY BROADCASTING OR HYDROSEEDING. IF BROADCASTING, LIGHTLY RAKE INTO THE PREPARED SURFACE AND ROLL. IF, HYDROSEEDING, USE 4 TIMES THE RECOMMENDED RATE OF INOCULANT. AFTER SEED IS SPREAD, WATER THOROUGHLY WITH A FINE SPRAY.
- SEEDING FOR PERMANENT COVER SHALL OCCUR BETWEEN SEPTEMBER 15 AND OCTOBER 15 AND BETWEEN APRIL 15 AND JUNE 15. SEEDING SHALL NOT BE DONE DURING WINDY WEATHER, 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.
- 9. PROTECT AND PREVENT AGAINST WASHOUTS, ANY WASHOUTS WHICH OCCUR SHALL BE PROMPTLY REGRADED AND RESEEDED 10. 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 SEEDED 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.
- 2. 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. 4. SEED MIXTURE FOR LAWN 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.
- 6. SEED MIXTURE FOR SLOPE AREAS SHALL BE APPLIED AT A RATE OF 80 POUNDS PER ACRE OR 2 POUNDS PER 1,000 8. STRAW USED FOR MULCH SHALL CONSIST OF MOWED AND PROPERLY CURED GRASS OR
- 7. SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS SHALL BE APPLIED AT A RATE OF 70 POUNDS PER ACRE OR 1.6 POUNDS PER 1.000 S.F.
- 8. MULCH SHALL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 S.F.

PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES ONE YEAR FROM DATE OF APPROVAL	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING:
	SIGNATURE DATE:
	SIGNATURE DATE:

#### MATERIALS

- LOAM USED FOR TOPSOIL SHALL BE FRIABLE, FERTILE, NATURAL FREE-DRAINING LOAM; FREE OF ROOTS, GRASS, STICKS, WEEDS, CLAY, SOD LUMPS, DEBRIS AND STONES LARGER THAN 1 NO TOXIC MATERIALS.
- LIME SHALL BE GROUND LIMESTONE CONTAINING NO LESS THAN 95% CALCIUM AND MAGNESIUM CARBONATES.
- FERTILIZER SHALL BE NO PHOSPHORUS, SLOW RELEASE. FOLLOWING:
  - 25% CREEPING RED FESCUE 25% KENTUCKY BLUEGRASS
- TEMPORARY SEEDING MIXTURE SHALL BE AN APPROVED CONSERVATION MIX OR CONSIST OF THE FOLLOWING
- 15% BLACKWELL OR SHELTER SWITCHGRASS 30% NIAGRA OR KAW BIG BLUESTEM
- 30% CAMPER OR BLAZE LITTLESTEM
- 10% VIKING BIRDSFOOT TREFOIL

- THE FOLLOWING
- 15% BIRDSFOOT TREFOIL

- VEGETATED TREATMENT SWALES SHALL CONSIST OF THE FOLLOWING:
- 10% FLATPEA 20% WILDFLOWER VARIETY
- 9. NATIVE PLANTINGS SHOULD BE USED FOR ALL NEW GREENSCAPES.

- INCH IN ANY DIMENSION. SOIL SHALL NOT BE EXCESSIVELY ACID OR ALKALINE AND CONTAIN
- SEED MIXTURE FOR LAWN AREAS SHALL BE 99% PURE LIVE SEED AND CONSIST OF THE
- 25% REDTOP 25% MANHATTAN PERENNIAL RYEGRASS

- 15% NE-27 OR BLAZE SAND LOVEGRASS
- INOCULUM SPECIFIC TO BIRDSFOOT TREFOIL MUST BE USED WITH THIS MIXTURE. IF
- SEEDING BY HAND, A STICKING AGENT SHALL BE USED. IF SEEDING WITH A
- 30% CREEPING RED FESCUE
- POUNDS PER ACRE AND INOCULUM SPECIFIC TO CROWN VETCH MUST BE USED. 7. SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS, INCLUDING DETENTION BASINS AND
  - 25% CREEPING RED FESCUE
  - 15% SWITCH GRASS 15% FOX SEDGE
- LEGUME MOWINGS, FREE FROM WEEDS, TWIGS, DEBRIS OR OTHER DELETERIOUS MATERIAL AND ROT OR MOLD
- 10. ALL WILDFLOWER SEEDING MIXES SHOULD BE FREE OF INVASIVE SPECIES.

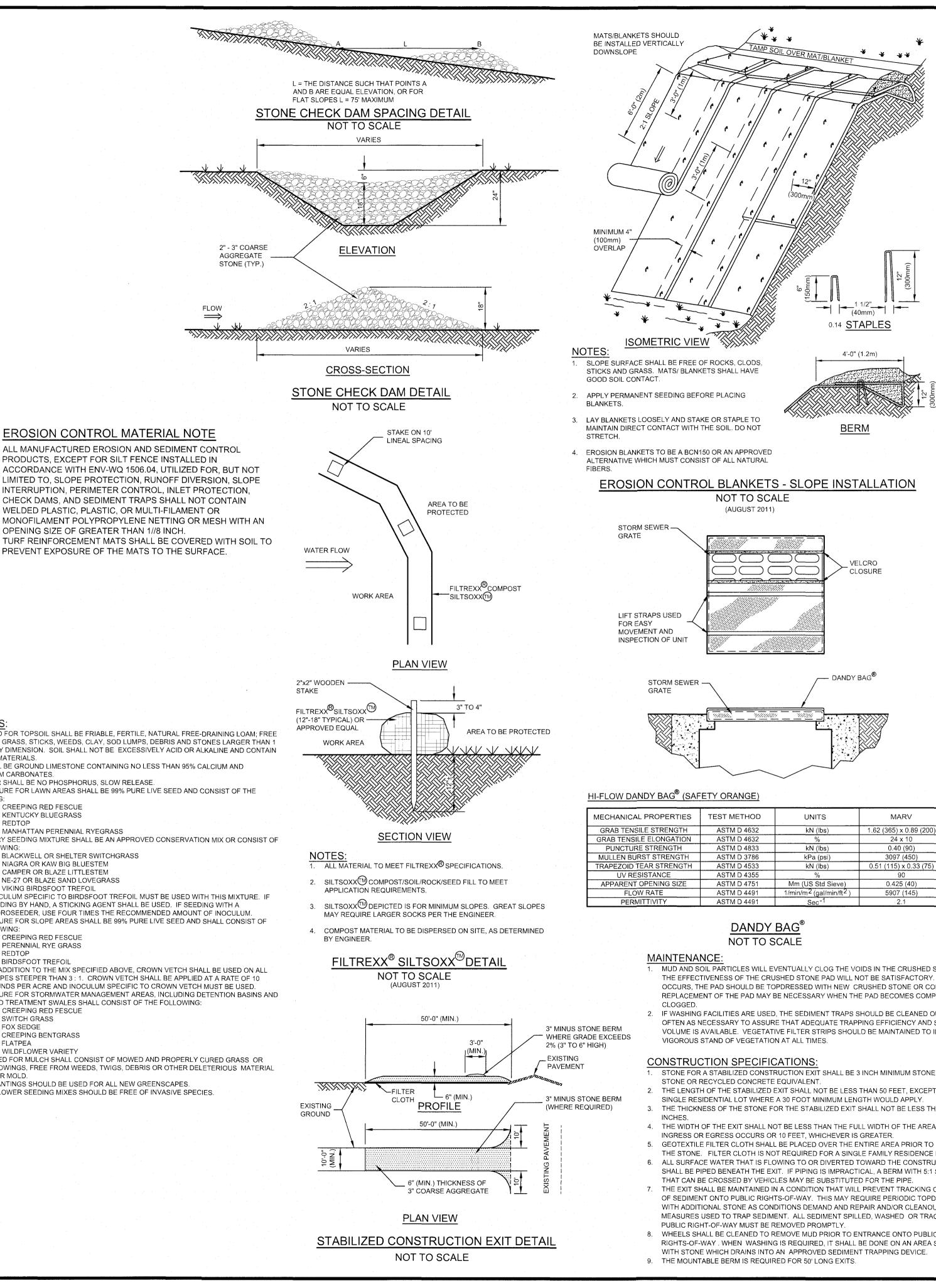
- HYDROSEEDER, USE FOUR TIMES THE RECOMMENDED AMOUNT OF INOCULUM 6. SEED MIXTURE FOR SLOPE AREAS SHALL BE 99% PURE LIVE SEED AND SHALL CONSIST OF

  - 40% PERENNIAL RYE GRASS 15% REDTOP

  - *IN ADDITION TO THE MIX SPECIFIED ABOVE, CROWN VETCH SHALL BE USED ON ALL

  - 15% CREEPING BENTGRASS

- SLOPES STEEPER THAN 3 : 1. CROWN VETCH SHALL BE APPLIED AT A RATE OF 10



## CONSTRUCTION SEQUENCE

- THE CONTRACTOR WILL ENSURE THAT NO MORE THAN 5 ACRES IS DISTURBED AT ANY ONE TIME
- FIRST CUT AND CLEAR TREES AND BRUSH ONLY WITHIN DESIGNATED LIMITS OF CLEARING AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION. ALL TREES, BRANCHES AND OTHER VEGETATIVE MATERIALS SHALL BE PROPERLY DISPOSED OF 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 OF 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 DUE TO EROSION.
- BEGIN EARTHMOVING OPERATIONS, COMMENCING WITH WORK NEEDED TO BALANCE SITE AND FACILITATE BUILDING FOUNDATION AND RETAINING WALL CONSTRUCTION. PERMANENT DOWNSLOPE WORK SHALL BE PROTECTED FROM UPGRADIENT 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. 10. INSTALL DRAINAGE SWALE SYSTEMS AND OTHER UTILITIES WORKING FROM LOW TO HIGH. INCOMPLETE WORK SHALL BE PROTECTED FROM SILTATION BY THE USE OF SILTATION BARRIERS AROUND SWALES UNTIL THE SITE HAS BECOME FULLY STABILIZED
- 11. DEEPLY TILL THE BASE OF THE INFILTRATION BASIN TO RESTORE 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.
- 12. PLACE GRAVEL AND CRUSHED GRAVEL OVER PROPOSED DRIVEWAY, WALKS AND PARKING AREAS AND COMPACT IN SPECIFIED LIFT THICKNESS
- 13. COMPLETE EXCAVATION/STABILIZATION GRADING ACTIVITIES. WHEN COMPLETE, IMMEDIATELY BEGIN TOPSOILING PROPOSED TURF AREAS USING STOCKPILED LOAM SUPPLEMENTED WITH BORROW LOAM, IF NECESSARY, TO LEAVE A THICKNESS OF 4 INCHES OF FRIABLE LOAM. 14. 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 FINISH GRADE. INSTALL THE BINDER COURSE OF PAVEMENT OVER ALL DESIGNATED AREAS.
- 16. 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.
- 17. INSTALL THE SPECIFIED WEARING COURSE OF PAVEMENT OVER THE BINDER COURSE. 18. COMPLETE INSTALLATION OF LANDSCAPING, SIGNAGE AND OTHER SITE AMENITIES.

#### 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 BE IN AN UNSTABLE CONDITION UNLESS AN ENVIRONMENTAL MONITOR IS EMPLOYED THROUGH THE DURATION OF CONSTRUCTION. NO GIVEN 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 FINAL SEEDING AND MULCHING. 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 SEDIMENT SO AS TO MAINTAIN 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 STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED;
  - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR . EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED. 8. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD, IN
- ACCORDANCE WITH ENV-A 1000
- 9. IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT. 10. THE TOWN RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION. 11. 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."
- 12. DETENTION BASINS/SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE. 13. DITCHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM
- 14. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL SOILS ARE STABILIZED.
- 15. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. 16. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

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

40)								
45)	CONSTRUCTION DETAILS							
	BLUEBIRD SELF STORAGE							
USHED STONE AND CTORY. WHEN THIS E OR COMPLETE S COMPLETELY ANED OUT AS	MAP 176 LOTS 21, 22 & 23 196-202 CENTRAL STREET HUDSON, NEW HAMPSHIRE HILLSBOROUGH COUNTY							
CY AND STORAGE NED TO INSURE A 1 STONE, RECLAIMED	OWNER OF R RONALD CRAVEN c/o NANCY CRAV 88 Speare HUDSON, NH H.C.R.D. BK. 6079	N TRUS EN TR ROAD 03051	ST UST	<u>APPLICANT:</u> BLUEBIRD SELF STORAGE LLC. 125 OCEAN ROAD GREENLAND, NH 03840				
EXCEPT FOR A PPLY. LESS THAN 3 HE AREA WHERE RIOR TO PLACING IDENCE LOT.	KEACH-NORDSTROM ASSOCIATES, INC. Civil Engineering Land Surveying Landscape Architecture 10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881							
ONSTRUCTION EXIT				REVISION	IS			
E. ACKING OR FLOWING	WITTENEW AL	No.	DATE	DESCRIPTION		BY		
IC TOPDRESSING	STEVEN B	1 2	01-21-2022 02-14-2022		DRAINAGE PER CLIENT	BES		
CLEANOUT OF ANY OR TRACKED ONTO		3 02-21-2022		REVISED PER REVIEW COMMENTS REVISED PER TOWN COMMENTS		BES		
D PUBLIC N AREA STABILIZED	No. 7858	4	02-28-2022	REVISED PER	TOWN COMMENTS	BES		
EVICE.	Mar Dago	DATE: DECEMBER 20, 2021			SCALE: N.T.S.			
	PROJECT NO: 21-0709-3 SHEET 23 OF 2							