

HUDSON LOGISTICS CENTER SITE PLAN & WETLANDS CONDITIONAL USE APPLICATIONS

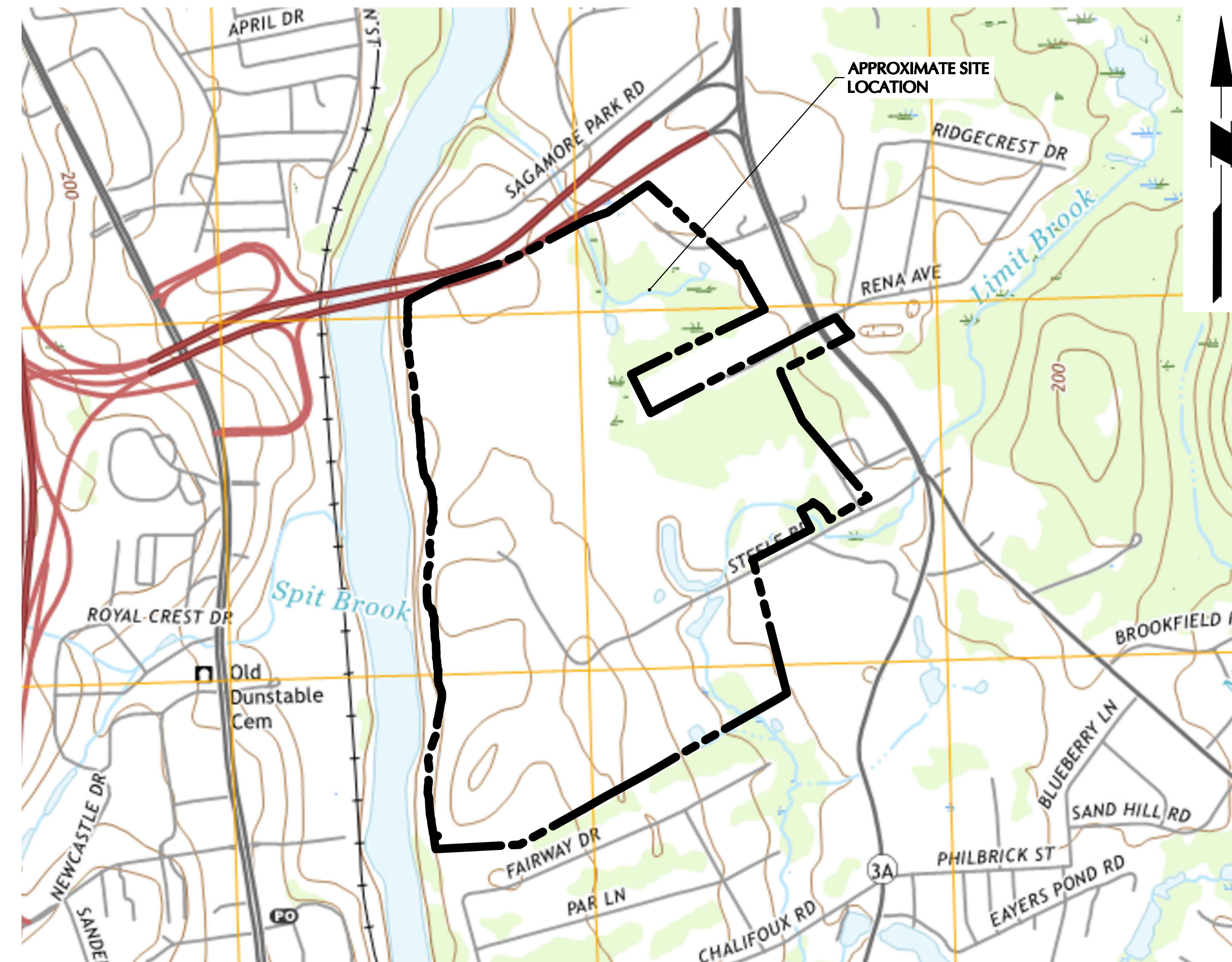
LOWELL ROAD
MAP 234, LOT 5, 34 & 35
MAP 239, LOT 1

TOWN OF HUDSON, HILLSBOROUGH COUNTY, NEW HAMPSHIRE

ABUTTING PROPERTY OWNERS WITHIN 100'

RELEASE DATES	
DATE	ISSUED FOR
SEPTEMBER 09, 2022	SITE PLAN APPLICATION SUBMISSION

OWNER'S SIGNATURE	
FRANK HOLMES <i>Frank Holmes</i>	DATE 09/09/2022
ON BEHALF OF THE OWNER, AND IN ACCORDANCE WITH THE OWNER'S AUTHORIZATION MEMO, DATED APRIL 16, 2020.	



MAP REFERENCE: USGS NASHUA SOUTH QUADRANGLE MAP 2018 (7.5-MINUTE SERIES)

LOCATION MAP

SCALE: 1" = 1000'

NOTE: DRAWING INDEX LOCATED ON SHEET CS002

OWNER
GREENMEADOW GOLF CLUB, INC.
C/O THOMAS FRIEL
55 MARSH ROAD
HUDSON, NH 03051

APPLICANT
HILLWOOD
C/O BRIAN KUTZ
5050 W. TILGHMAN STREET
SUITE 435
ALLENTOWN, PA 18104
(410) 596-3665

ARCHITECT
CI DESIGN
C/O BEN ANDERSON
250 SUMMER ST, SECOND FLOOR
BOSTON, MA 02210
(617) 987-4052

LAND SURVEYOR
HAYNER/SWANSON, INC.
C/O JAMES PETROPULOS
3 CONGRESS STREET
NASHUA, NH 03062
(603) 883-2057

WETLANDS & NATURAL RESOURCES
GOVE ENVIRONMENTAL SERVICES
C/O BRENDAN QUIGLEY
8 CONTINENTAL DRIVE, BLDG 2, UNIT H
EXETER, NH 03833
(603) 778-0644

**CIVIL ENGINEER, TRAFFIC ENGINEER,
ENVIRONMENTAL ENGINEER, GEOTECHNICAL
ENGINEER & LANDSCAPE ARCHITECT**
LANGAN ENGINEERING & ENVIRONMENTAL
SERVICES, INC
C/O FRANK HOLMES
100 CAMBRIDGE STREET
BOSTON, MA 02114
(617) 824-9100

MAP	LOT	PROPERTY OWNER	PROPERTY LOCATION
221	8	1987 TAMPOSI LIMITED PARTNERSHIP 20 TRAFALGAR SQUARE, SUITE 602 NASHUA, NH 03063	261 LOWELL ROAD
227	1	FLAGSTONE31 REALTY, LLC 31 FLAGSTONE DRIVE HUDSON, NH 03051	31 FLAGSTONE DRIVE
227	2	25 SAGAMORE PARK, LLC 25 SAGAMORE PARK ROAD HUDSON, NH 03051	25 SAGAMORE PARK RD
227	3	COOL GAR STORAGE 13 JONES ROAD PELHAM, NH 03076	31 SAGAMORE PARK RD
227	4	UNIFIRST CORPORATION 68 JONSPIN ROAD WILMINGTON, MA 01887	35 SAGAMORE PARK RD
227	5	LINDA BRUNO P.O. BOX 669 WINDHAM, NH 03087	41 SAGAMORE PARK RD
227	6	41 SAGAMORE PARK ROAD, LLC P.O. BOX 669 WINDHAM, NH 03087	43 SAGAMORE PARK RD
227	7	TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051	45 SAGAMORE PARK RD
228	1	261 LOWELL ROAD, LLC 41 PARK AVENUE ARLINGTON, MA 02476	261 LOWELL ROAD
228	4	SAM'S RE BUSINESS TRUST PO BOX 8050 MS 0555 BENTONVILLE, AR 72716	7 WAL-MART BOULEVARD
228	7 & 8	HUDSON COMMERCIAL ASSOC., LLC P.O. BOX 6500 CARLISLE, PA 17013	256 & 266 LOWELL ROAD
228	52	KAREN DEXTER 268A LOWELL ROAD HUDSON, NH 03051	268 LOWELL ROAD
228	54	NEW LIFE CHRISTIAN CHURCH 272 LOWELL ROAD HUDSON, NH 03051	272 LOWELL ROAD
234	1	STEELE FARM, LLC 2 FRIEL GOLF ROAD HUDSON, NH 03051	9 RIVER ROAD
234	6	GREENMEADOW GOLF CLUB INC 55 MARSH ROAD HUDSON, NH 03051	15 STEELE ROAD
234	7	KENNETH MURPHY 2 LINDA STREET HUDSON, NH 03051	2 LINDA STREET
234	8	J SCOTT DESROCHES 296 DERRY ROAD HUDSON, NH 03051	4 LINDA STREET
234	9	THERESA B. GOYETTE 6 LINDA STREET HUDSON, NH 03051	6 LINDA STREET
234	10	DAVID R DUNN 8 LINDA STREET HUDSON, NH 03051	8 LINDA STREET
234	11	SEAN P STEVENS 10 LINDA STREET HUDSON, NH 03051	10 LINDA STREET
234	12	MARK TEMPESTA 12 LINDA STREET HUDSON, NH 03051	12 LINDA STREET

MAP	LOT	PROPERTY OWNER	PROPERTY LOCATION
234	35	267 LOWELL ROAD, LLC P.O. BOX 15228 SPRINGFIELD, MA 01115-5228	267 LOWELL ROAD
234	36	STEVEN J. GENDRON 94 AARON DRIVE MANCHESTER, NH 03109	274 LOWELL ROAD
240	1	JOANNE E WALSH 2 EAGLE DRIVE HUDSON, NH 03051	2 EAGLE DRIVE
240	2	JAMES M DOBENS 4 EAGLE DRIVE HUDSON, NH 03051	4 EAGLE DRIVE
240	3	CRAIG C PROULX 6 EAGLE DRIVE HUDSON, NH 03051	6 EAGLE DRIVE
240	4	TYLER M GREENE 8 EAGLE DRIVE HUDSON, NH 03051	8 EAGLE DRIVE
240	5	BRIAN C NOONE 10 EAGLE DRIVE HUDSON, NH 03051	10 EAGLE DRIVE
240	6	JOSEPH M DIPILATO 12 EAGLE DRIVE HUDSON, NH 03051	12 EAGLE DRIVE
240	13-1	DWARKAMAI, INC 2340 LEXINGTON LANE NAPERVILLE, IL 60540	33 RIVER ROAD
245	12	BRADFORD BAKER, SR. 23 FAIRWAY DRIVE HUDSON, NH 03051	23 FAIRWAY DRIVE
245	13	JOHN KING 21 FAIRWAY DRIVE HUDSON, NH 03051	21 FAIRWAY DRIVE
245	14	LEONARD J LEONE 19 FAIRWAY DRIVE HUDSON, NH 03051	19 FAIRWAY DRIVE
245	15	ROBERT COSTELLO 17 FAIRWAY DRIVE HUDSON, NH 03051	17 FAIRWAY DRIVE
245	16	PHILLIP G VOLK 15 FAIRWAY DRIVE HUDSON, NH 03051	15 FAIRWAY DRIVE
245	17	TIMOTHY A MONK 13 FAIRWAY DRIVE HUDSON, NH 03051	13 FAIRWAY DRIVE
246	36	SURRI D SAKATI 11 FAIRWAY DRIVE HUDSON, NH 03051	11 FAIRWAY DRIVE
246	37	DAVID R GOSSSELIN 9 FAIRWAY DRIVE HUDSON, NH 03051	9 FAIRWAY DRIVE
246	38	KIMBERLY M UBELE 7 FAIRWAY DRIVE HUDSON, NH 03051	7 FAIRWAY DRIVE
246	39	CHRISTOPHER D MULLIGAN 5 FAIRWAY DRIVE HUDSON, NH 03051	5 FAIRWAY DRIVE
246	40	MARSCH FAMILY TRUST 3 FAIRWAY DRIVE HUDSON, NH 03051	3 FAIRWAY DRIVE
246	41	SCOTT J WADE 1 FAIRWAY DRIVE HUDSON, NH 03051	1 FAIRWAY DRIVE

APPROVAL BLOCK

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

PLANNING BOARD CHAIRMAN: _____ SIGNATURE DATE: _____
PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____

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

PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES ONE YEAR FROM DATE OF APPROVAL.

FOR PERMITTING ONLY, NOT FOR CONSTRUCTION

LANGAN

CIVIL DRAWING INDEX

CONCURRENT PLAN SETS AND PERMIT APPLICATIONS

1. THE FOLLOWING PERMITS AND APPROVALS ARE BEING PURSUED FOR THIS SITE PLAN AMENDMENT:

- LOCAL PERMITS
 - HUDSON CONSERVATION COMMISSION WETLANDS RECOMMENDATION TO THE HUDSON PLANNING BOARD (CH. 334)
 - HUDSON PLANNING BOARD APPROVAL (AMENDED) --- WETLANDS C.U.P. (CH. 334)
 - HUDSON PLANNING BOARD APPROVAL (AMENDED) --- SITE PLAN (CH. 275)
 - HUDSON PLANNING BOARD APPROVAL (AMENDED) ---STORMWATER MANAGEMENT PLAN (CH. 290)
 - WATER & SEWER PEER REVIEW SIGNOFF
 - SEWER USE ALLOCATION APPROVAL (CH. 270)
 - NONRESIDENTIAL SEWER CONNECTION PERMIT
 - WATER SERVICE CONNECTION PERMIT (CH. 274)
 - PEER REVIEW (CIVIL, STORMWATER)
 - TRAFFIC PEER REVIEW
 - STREET OPENING PERMIT (CH. 284)
 - DRIVEWAY PERMIT (CH. 193)
- REGIONAL PERMITS
 - LOWER MERRIMACK RIVER LOCAL ADVISORY COMMITTEE
- NHDOT APPROVALS
 - ACCESS PERMITS
 - SIGNALIZATION PERMIT
- NHDES APPROVALS
 - AIR POLLUTION CONTROL PERMIT
 - DREDGE & FILL PERMIT
 - ALTERATION OF TERRAIN PERMIT
 - SEWER CONNECTION PERMIT
- OTHER STATE APPROVALS
 - NATURAL HERITAGE BUREAU
 - NEW HAMPSHIRE FISH & GAME
- FEDERAL APPROVALS
 - ARMY CORP
 - EPA FEDERAL NPDES PERMIT

WAIVER REQUESTS

- A WAIVER IS REQUESTED FROM CHAPTER 276-13 IN ORDER TO ALLOW PROPOSED OVERHEAD ELECTRICAL LINES FOR A DISTANCE OF APPROXIMATELY 950 LINEAR FEET, AND TO EXTEND FROM AN EXISTING LINE IN LOWELL ROAD AND WESTERLY TO THE EXISTING PROPERTY AT 267 LOWELL ROAD CURRENTLY OWNED BY 267 LOWELL ROAD LLC AND OCCUPIED BY BAE SYSTEMS. WAIVER IS NECESSITATED BECAUSE THE UTILITY PROVIDER, EVERSOURCE, IS MANDATING THAT THIS SEGMENT OF ELECTRICAL LINE BE MAINTAINED AS OVERHEAD LINES.
- A WAIVER IS REQUESTED FROM CHAPTER 275-8.C(4) TO PERMIT PARKING SPACE DIMENSIONS FOR THE HUDSON LOGISTICS CENTER TO BE 9 FEET BY 18 FEET INSTEAD OF 10 FEET BY 20 FEET.
- A WAIVER IS REQUESTED FROM CHAPTER 275-8.C(2) IN ORDER TO REDUCE THE NUMBER OF REQUIRED PARKING SPACES FROM 3,705 PARKING SPACES TO 1,585 PARKING SPACES, OR A REDUCTION OF 2,120 PARKING SPACES.
- A WAIVER IS REQUESTED FROM CHAPTER 193-10 IN ORDER TO ALLOW THE PROPERTY TO HAVE TWO DRIVEWAYS, INCLUDING THE PRIVATE SHARED DRIVEWAY TO THE NORTH OF THE PROPERTY EXTENDING OFF THE SAM'S CLUB PROPERTY, AND A SECOND MAIN SHARED PRIVATE DRIVEWAY NAMED GREEN MEADOW DRIVE.
- A WAIVER IS REQUESTED FROM CHAPTER 193-10.F IN ORDER TO ALLOW FOR CERTAIN SECTIONS OF GREEN MEADOW DRIVE TO EXCEED 50 FEET IN WIDTH.
- A WAIVER IS REQUESTED FROM CHAPTER 200-3 TO EXEMPT THE PROJECT FROM CHAPTER 200.

NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES

- EROSION CONTROL MATERIALS SUCH AS WELDED PLASTIC OR "BIODEGRADABLE PLASTIC" NETTING OR THREAD (E.G. POLYPROPYLENE) SHALL NOT BE USED. THE USE OF EROSION CONTROL BERM, WHITE FILTREXX DEGRADABLE WOVEN SILT SOCK OR WOVEN ORGANIC MATERIALS (E.G. COCO OR JUTE MATTING SUCH AS NORTH AMERICAN GREEN SC150BN) SHALL BE USED. PLANS INCORPORATE THE USE OF S150BN OR SC150BN SEE SHEET CE502.
- EASTERN BOX TURTLES. A STATE-ENDANGERED SPECIES, MAY BE FOUND WITHIN THE PROJECT AREA. IF THIS TURTLE IS ENCOUNTERED, IT SHOULD BE REPORTED TO NHFG IMMEDIATELY. MELISSA DOPERALSKI AT (603) 479-1129 OR 603-271-1738. JOSH MEGYESY (978) 578-0802 OR THE WILDLIFE ADMINISTRATOR AT (603) 271-2461. FOR SPECIES IDENTIFICATION AND NHFG CONTACT INFORMATION SEE SHEET CE501.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO NHFG VIA EMAIL TO RAARP@WILDLIFE.NH.GOV AND MELISSA.DOPERALSKI@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: "PROJECT NAME AND NHG NUMBER" PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE.
- SLOPED CURBING SHALL BE USED FOR ACCESS DRIVEWAYS. SEE SHEET CS505 FOR PRIMARY AND SECONDARY SITE ACCESS DRIVE SLOPED GRANITE CURBING DETAIL.
- ALL DRY WELLS IN INFILTRATION BASINS SHALL BE GRAVEL FILLED WELLS. SEE SHEET CG502 FOR GRAVEL DRY WELL DETAIL.
- CATCH BASINS SHALL NOT INCLUDE HUMPS WITHIN VEGETATED AREAS.
- IF ANY THREATENED OR ENDANGERED SPECIES ARE OBSERVED WITHIN THE DISTURBANCE AREA AND ARE IN HARM'S WAY, IF IT IS SAFE TO DO SO, MOVE TO THE CLOSEST LOCATION IN THE DIRECTION THEY WERE HEADING AND IMMEDIATELY CONTACT NHFG AT 603-271-2461 OR NHFG WILDLIFE BIOLOGIST MELISSA DOPERALSKI TEXT OR PHONE AT 603-479-1129. INCLUDE PHOTOGRAPH IF FEASIBLE.
- NHFG SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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SHEET NUMBER	DRAWING TITLE	DATE	LAST REVISED
CS001	COVER SHEET	09/09/2022	-
CS002	SHEET INDEX	09/09/2022	-
CS003	MASTER LEGEND & NOTES	09/09/2022	-
EC100	MASTER EXISTING CONDITIONS PLAN	09/07/2022	-
EC101	ABUTTERS, NOTES AND LEGEND PLAN	09/07/2022	-
EC102	EXISTING CONDITIONS PLAN	09/07/2022	-
EC103	EXISTING CONDITIONS PLAN	09/07/2022	-
EC104	EXISTING CONDITIONS PLAN	09/07/2022	-
EC105	EXISTING CONDITIONS PLAN	09/07/2022	-
EC106	EXISTING CONDITIONS PLAN	09/07/2022	-
EC107	EXISTING CONDITIONS PLAN	09/07/2022	-
EC108	EXISTING CONDITIONS PLAN	09/07/2022	-
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CS103	SITE PLAN III	09/09/2022	-
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CS105	SITE PLAN V	09/09/2022	-
CS106	SITE PLAN VI	09/09/2022	-
CS107	SITE PLAN VII	09/09/2022	-
CS108	SITE PLAN VIII	09/09/2022	-
CS109	SITE PLAN IX	09/09/2022	-
CS110	SITE PLAN X	09/09/2022	-
CS111	SITE PLAN XI	09/09/2022	-
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CS117	SITE PLAN XVII	09/09/2022	-
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CS503	SITE DETAILS III	09/09/2022	-
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CS505	SITE DETAILS V	09/09/2022	-
CS506	SITE DETAILS VI	09/09/2022	-
CG100	OVERALL GRADING & DRAINAGE PLAN	09/09/2022	-
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CG102	GRADING & DRAINAGE PLAN II	09/09/2022	-
CG103	GRADING & DRAINAGE PLAN III	09/09/2022	-
CG104	GRADING & DRAINAGE PLAN IV	09/09/2022	-
CG105	GRADING & DRAINAGE PLAN V	09/09/2022	-
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CG110	GRADING & DRAINAGE PLAN X	09/09/2022	-
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CG113	GRADING & DRAINAGE PLAN XIII	09/09/2022	-
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CG122	GRADING & DRAINAGE PLAN XXII	09/09/2022	-
CG123	GRADING & DRAINAGE PLAN XXIII	09/09/2022	-
CG200	OVERALL SUB-GRADE DRAINAGE PLAN	09/09/2022	-
CG201	SUB-GRADE DRAINAGE PLAN I	09/09/2022	-
CG202	SUB-GRADE DRAINAGE PLAN II	09/09/2022	-
CG203	SUB-GRADE DRAINAGE PLAN III	09/09/2022	-
CG501	GRADING & DRAINAGE DETAILS I	09/09/2022	-
CG502	GRADING & DRAINAGE DETAILS II	09/09/2022	-
CG503	GRADING & DRAINAGE DETAILS III	09/09/2022	-
CG504	GRADING & DRAINAGE DETAILS IV	09/09/2022	-
CG505	GRADING & DRAINAGE DETAILS V	09/09/2022	-
CG506	GRADING & DRAINAGE DETAILS VI	09/09/2022	-
FG01	WETLAND IMPACT PLAN	09/09/2022	-
CU100	OVERALL UTILITY PLAN	09/09/2022	-
CU101	UTILITY PLAN I	09/09/2022	-
CU102	UTILITY PLAN II	09/09/2022	-
CU103	UTILITY PLAN III	09/09/2022	-

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CU104	UTILITY PLAN IV	09/09/2022	-
CU106	UTILITY PLAN VI	09/09/2022	-
CU107	UTILITY PLAN VII	09/09/2022	-
CU109	UTILITY PLAN IX	09/09/2022	-
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CU118	UTILITY PLAN XVIII	09/09/2022	-
CU119	UTILITY PLAN XIX	09/09/2022	-
CU120	UTILITY PLAN XX	09/09/2022	-
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CU504	UTILITY DETAILS IV	09/09/2022	-
CU505	UTILITY DETAILS V	09/09/2022	-
CU506	UTILITY DETAILS VI	09/09/2022	-
CE101	SOIL EROSION & SEDIMENT CONTROL PLAN I (PHASE 1)	09/09/2022	-
CE102	SOIL EROSION & SEDIMENT CONTROL PLAN II (PHASE 1)	09/09/2022	-
CE103	SOIL EROSION & SEDIMENT CONTROL PLAN III (PHASE 1)	09/09/2022	-
CE104	SOIL EROSION & SEDIMENT CONTROL PLAN IV (PHASE 1)	09/09/2022	-
CE201	SOIL EROSION & SEDIMENT CONTROL PLAN I (PHASE 2)	09/09/2022	-
CE202	SOIL EROSION & SEDIMENT CONTROL PLAN II (PHASE 2)	09/09/2022	-
CE203	SOIL EROSION & SEDIMENT CONTROL PLAN III (PHASE 2)	09/09/2022	-
CE204	SOIL EROSION & SEDIMENT CONTROL PLAN IV (PHASE 2)	09/09/2022	-
CE301	SOIL EROSION & SEDIMENT CONTROL PLAN I (PHASE 3)	09/09/2022	-
CE302	SOIL EROSION & SEDIMENT CONTROL PLAN II (PHASE 3)	09/09/2022	-
CE303	SOIL EROSION & SEDIMENT CONTROL PLAN III (PHASE 3)	09/09/2022	-
CE304	SOIL EROSION & SEDIMENT CONTROL PLAN IV (PHASE 3)	09/09/2022	-
CE501	SOIL EROSION & SEDIMENT CONTROL DETAILS I	09/09/2022	-
CE502	SOIL EROSION & SEDIMENT CONTROL DETAILS II	09/09/2022	-
CE503	SOIL EROSION & SEDIMENT CONTROL DETAILS III	09/09/2022	-
LL100	OVERALL LIGHTING PLAN	09/09/2022	-
LL103	LIGHTING PLAN III	09/09/2022	-
LL104	LIGHTING PLAN IV	09/09/2022	-
LL105	LIGHTING PLAN V	09/09/2022	-
LL106	LIGHTING PLAN VI	09/09/2022	-
LL107	LIGHTING PLAN VII	09/09/2022	-
LL108	LIGHTING PLAN VIII	09/09/2022	-
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LL111	LIGHTING PLAN XI	09/09/2022	-
LL112	LIGHTING PLAN XII	09/09/2022	-
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LL119	LIGHTING PLAN XIX	09/09/2022	-
LL501	LIGHTING NOTES & DETAILS I	09/09/2022	-
LL502	LIGHTING NOTES & DETAILS II	09/09/2022	-
LP100	OVERALL PLANTING PLAN	09/09/2022	-
LP101	LANDSCAPE PLANTING PLAN I	09/09/2022	-
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LP103	LANDSCAPE PLANTING PLAN III	09/09/2022	-
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LP105	LANDSCAPE PLANTING PLAN V	09/09/2022	-
LP106	LANDSCAPE PLANTING PLAN VI	09/09/2022	-
LP106A	LANDSCAPE PLANTING PLAN VI A	09/09/2022	-
LP107	LANDSCAPE PLANTING PLAN VII	09/09/2022	-
LP108	LANDSCAPE PLANTING PLAN VIII	09/09/2022	-
LP109	LANDSCAPE PLANTING PLAN IX	09/09/2022	-
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LP112	LANDSCAPE PLANTING PLAN XII	09/09/2022	-
LP113	LANDSCAPE PLANTING PLAN XIII	09/09/2022	-
LP114	LANDSCAPE PLANTING PLAN XIV	09/09/2022	-
LP115	LANDSCAPE PLANTING PLAN XV	09/09/2022	-
LP115A	LANDSCAPE PLANTING PLAN XV A	09/09/2022	-
LP116	LANDSCAPE PLANTING PLAN XVI	09/09/2022	-
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LP119	LANDSCAPE PLANTING PLAN XIX	09/09/2022	-
LP120	LANDSCAPE PLANTING PLAN XX	09/09/2022	-
LP120A	LANDSCAPE PLANTING PLAN XX A	09/09/2022	-
LP120B	LANDSCAPE PLANTING PLAN XX B	09/09/2022	-
LP121	LANDSCAPE PLANTING PLAN XXI	09/09/2022	-
LP122	LANDSCAPE PLANTING PLAN XXII	09/09/2022	-
LP122A	LANDSCAPE PLANTING PLAN XXII A	09/09/2022	-
LP123	LANDSCAPE PLANTING PLAN XXIII	09/09/2022	-

SHEET NUMBER	DRAWING TITLE	DATE	LAST REVISED
LP123A	LANDSCAPE PLANTING PLAN XXIII A	09/09/2022	-
LP501	LANDSCAPE NOTES & DETAILS I	09/09/2022	-
LP502	LANDSCAPE NOTES & DETAILS II	09/09/2022	-
LP503	LANDSCAPE NOTES & DETAILS III	09/09/2022	-

ARCHITECTURAL DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	DATE	LAST REVISED
A4.1	FLOOR PLAN	09/09/2022	-
A4.2	FLOOR PLAN - MEZZANINE	09/09/2022	-
A4.3	ROOF PLAN	09/09/2022	-
A4.4A	GUARD SHACK LARGE - FLOOR PLAN	09/09/2022	-
A4.4B	GUARD SHACK - ROOF PLAN	09/09/2022	-
A4.5A	FLOOR PLAN - TRANSPORTATION BUILDING	09/09/2022	-
A4.5B	TRANSPORTATION BUILDING - ROOF PLAN	09/09/2022	-
A4.6	INSPECTION CANOPY - FLOOR PLAN	09/09/2022	-
A4.7	INSPECTION CANOPY - ROOF PLAN	09/09/2022	-
A4.8	MAINTENANCE BUILDING - FLOOR PLAN	09/09/2022	-
A4.10	PUMP HOUSE AND TANK(S) - FLOOR PLAN/ROOF PLAN	09/09/2022	-
A5.1	EXTERIOR ELEVATIONS	09/09/2022	-
A5.2	GUARD SHACK - EXTERIOR ELEVATIONS	09/09/2022	-
A5.3	TRANSPORTATION BUILDING - EXTERIOR ELEVATIONS	09/09/2022	-
A5.4	INSPECTION CANOPY - EXTERIOR ELEVATIONS	09/09/2022	-
A5.5	MAINTENANCE BUILDING - EXTERIOR ELEVATIONS	09/09/2022	-
A5.6	PUMP HOUSE AND TANK(S) - EXTERIOR ELEVATIONS	09/09/2022	-

Date	Description	No.
Revisions		
		
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Project

HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
HUDSON
HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

SHEET INDEX

Project No.	Drawing No.
151010101	CS002
Date	
09/09/2022	
Drawn By	
MPG	
Checked By	
FH	

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Project No. 151010101

CONTRACTOR NOTES

- 1. THESE PLANS REPRESENT THE OVERALL SITEWORK IMPROVEMENTS REQUIRED FOR PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.

GENERAL NOTES

- 1. STORAGE SHEDS FOR CHEMICALS USED TO MANAGE SNOW AND ICE AT THE SITE SHALL NOT BE PLACED WITHIN 50 FEET OF THE WETLAND OR WETLAND BUFFER AREAS AND SUCH STORAGE AREAS SHALL BE SHOWN ON THE FINAL PLAN SET.
- 2. CONSERVATION WETLAND OVERLAY DISTRICT MARKERS SHALL BE PLACED AT 100-FOOT INTERVALS ALONG THE CONSERVATION EASEMENT AREAS, POST CONSTRUCTION, AS APPROVED BY THE TOWN ENGINEER, TO CLEARLY IDENTIFY THE CONSERVATION EASEMENT AREAS.

LEGEND

Legend table with columns for EXISTING and PROPOSED. Lists various symbols for PROPERTY LINE, SETBACK LINE, ON-SITE WETLANDS, OFF-SITE WETLANDS, WETLAND BUFFER LINE, RIVERFRONT OFFSET LINE, BUILDING LINE, DOOR LOCATION, LOADING BAY DOOR LOCATION, LOADING RAMP, MATCHLINE, 6" CURB LINE, 12" CONCRETE CURB LINE, TRAFFIC SIGN, STEEL BOLLARD, PARKING ROW COUNT, CONCRETE, LIGHT DUTY ASPHALT, HEAVY DUTY ASPHALT, GRAVEL WALK, LANDSCAPE AREA, GRIVITY SANITARY LINE, SANITARY FORCE MAIN, STORMWATER MANAGEMENT FEATURE, CLEANOUT, WATER LINE, FIRE SERVICE LOOP, UNDERGROUND TELECOMMUNICATIONS, UNDERGROUND ELECTRIC, UNDERGROUND GAS, STORM PIPE, STORM CATCH BASIN, STORM CURBLESS CATCH BASIN, STORM TRENCH DRAIN, STORM YARD DRAIN, STORM MANHOLE, CONTOUR, SPOT ELEVATION, FIBER ROLL, INLET PROTECTION, CHAIN LINK FENCE, SNOW STORAGE, FLOOD ZONE LINE, 8 FT CHAIN LINK FENCE, RETAINING WALL, TIMBER GUIDE RAIL, SOUND FENCE, CURB LEAKOFF WITH 1-FT PEAGRAVEL FILTER, DIRECTION OF TRAVEL ARROW, PAVEMENT MARKING, TRANSFORMER.

UTILITY NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE DOMESTIC AND FIRE SERVICE LINE CONNECTIONS TO EXISTING MAINS.
- 2. TEST PITS ARE TO BE PERFORMED PRIOR TO INSTALLATION OF DOMESTIC AND FIRE SERVICE LINE CONNECTIONS TO CONFIRM THE SIZE AND MATERIAL OF THE MAIN.

BLASTING NOTES

- 1. BLASTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LOCAL TOWN OF HUDSON ORDINANCE, CHAPTER 202 EXPLOSIVES.
- 2. BLASTING SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, ALTERATION OF TERRAIN PERMIT AND WITH THIS PROJECT AND GUIDANCE SET FORTH IN THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES CHAPTER ENV-WQ 1500 ALTERATION OF TERRAIN.

GRADING & DRAINAGE NOTES

- 1. ALL PROPOSED CMP STORM DRAINAGE PIPING TO BE ALUMINIZED.
- 2. ALL PROPOSED STORM DRAINAGE PIPING TO UTILIZE SOIL-TIGHT JOINTS.
- 3. LOCATIONS AND ELEVATIONS OF ROOF LEADERS SHOULD BE COORDINATED WITH ARCHITECTURAL & MEP DRAWINGS PRIOR TO CONSTRUCTION.

ACCESSIBILITY NOTES

- 1. WALKWAYS ALONG ACCESSIBLE ROUTES NOT TO EXCEED 5% RUNNING SLOPE OR 2% CROSS SLOPE.
- 2. ALL ADA PARKING SPACES AND PASSENGER LOADING ZONES SHALL NOT EXCEED 2% IN ANY DIRECTION.

APPROVAL BLOCK

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

Professional Engineer Seal for John D. Plante, State of New Hampshire, License No. 14072.

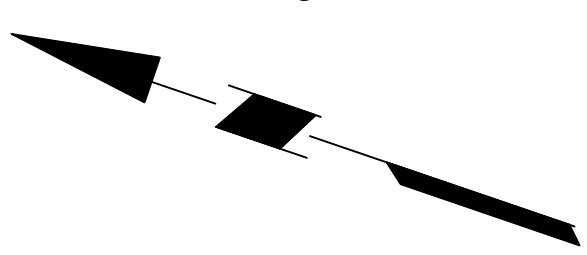
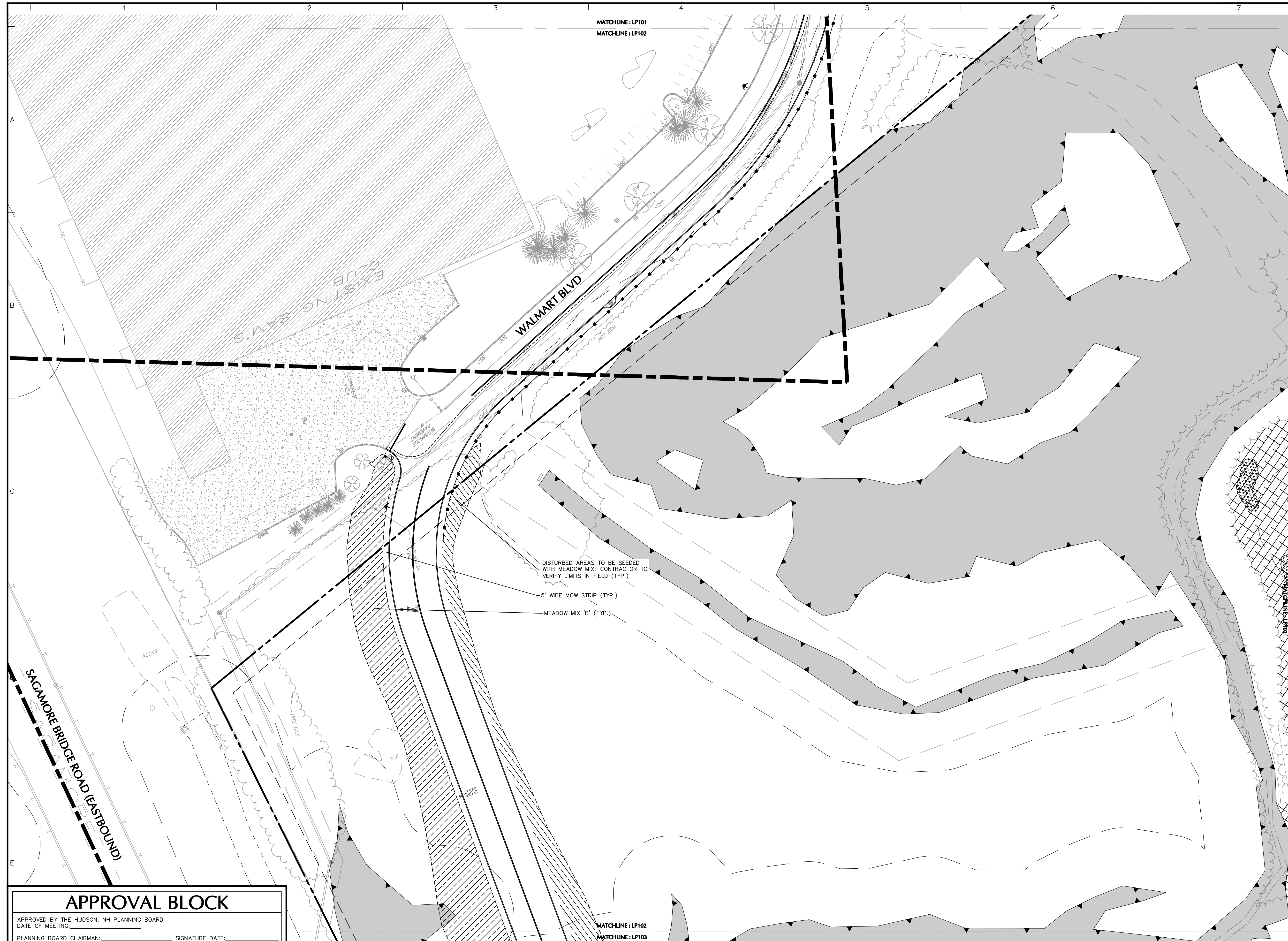
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HUDSON LOGISTICS CENTER MAP No. 239, LOT No. 1 HUDSON NEW HAMPSHIRE

MASTER LEGEND & NOTES

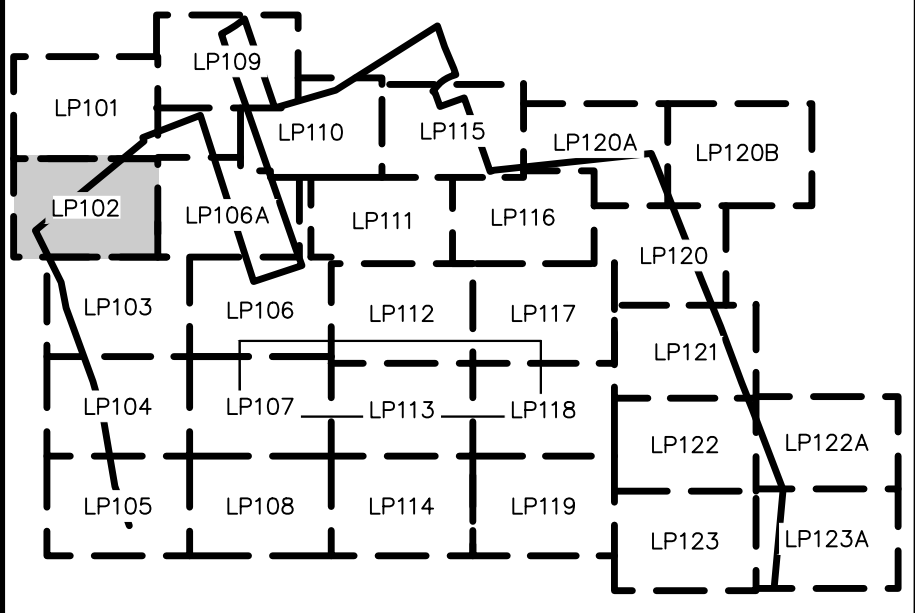
Project No. 15101010 Drawing No. Date 09/09/2022 Drawn By MPG Checked By FH CS003

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SHEET LEGEND

1"=1500'



Project No. 151010101

Date	Description	No.
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Signature: *Michael J. Langan* Date: _____

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Project

HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
HUDSON

HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

LANDSCAPE PLANTING PLAN II

Project No. 151010101 Drawing No.

Date 09/09/2022

Drawn By **KK**

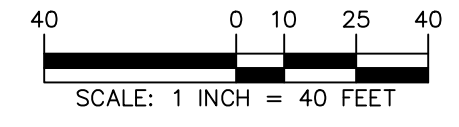
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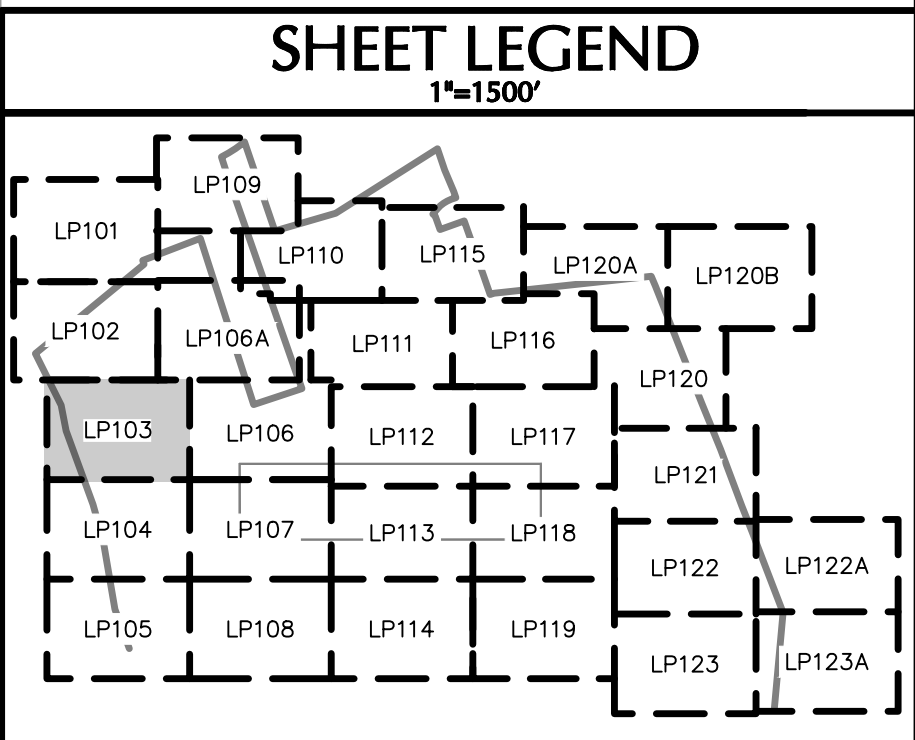
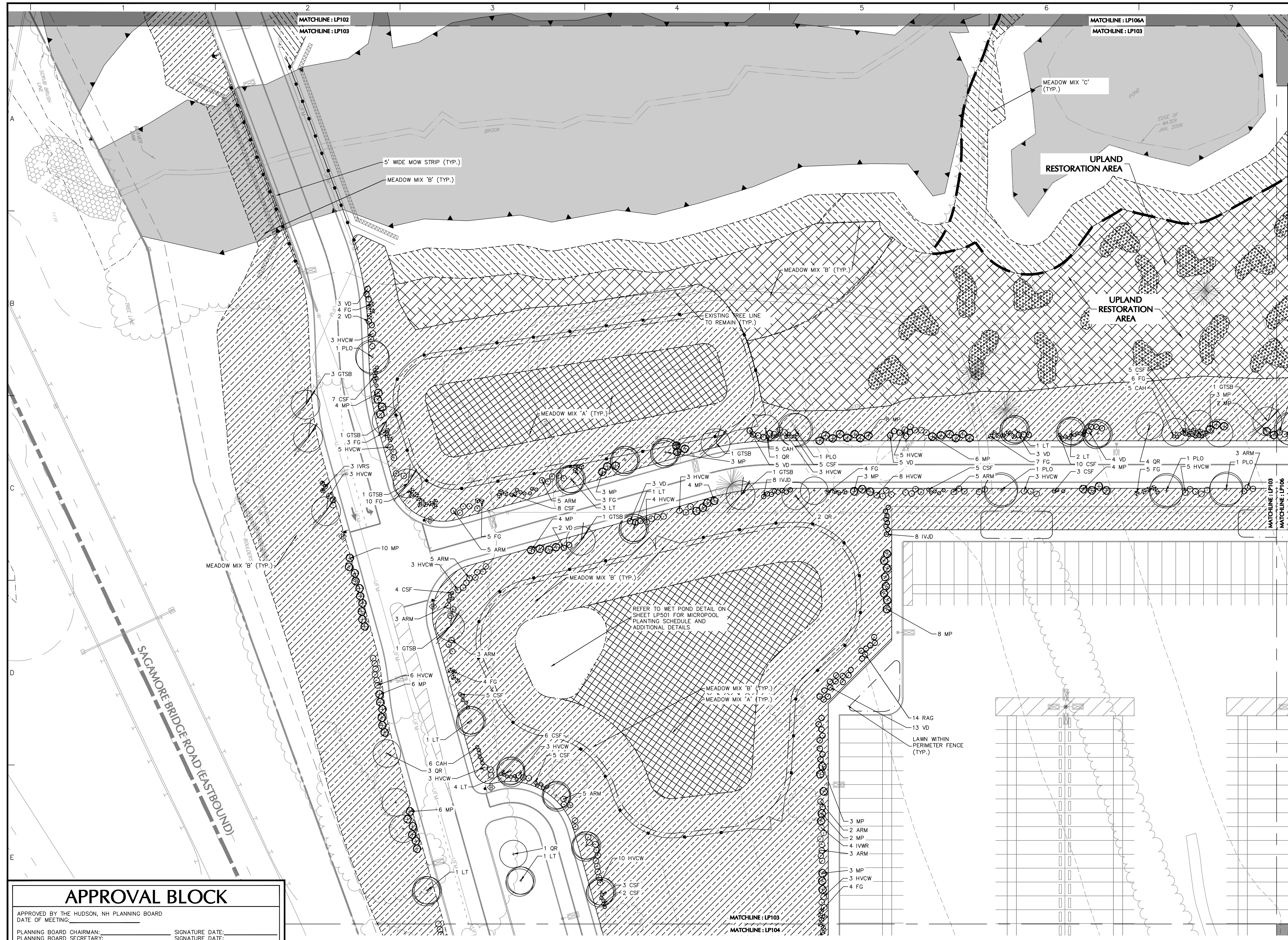
LP102

APPROVAL BLOCK

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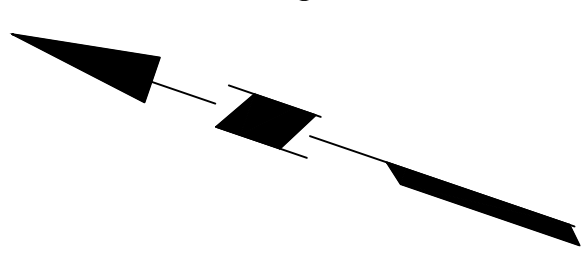
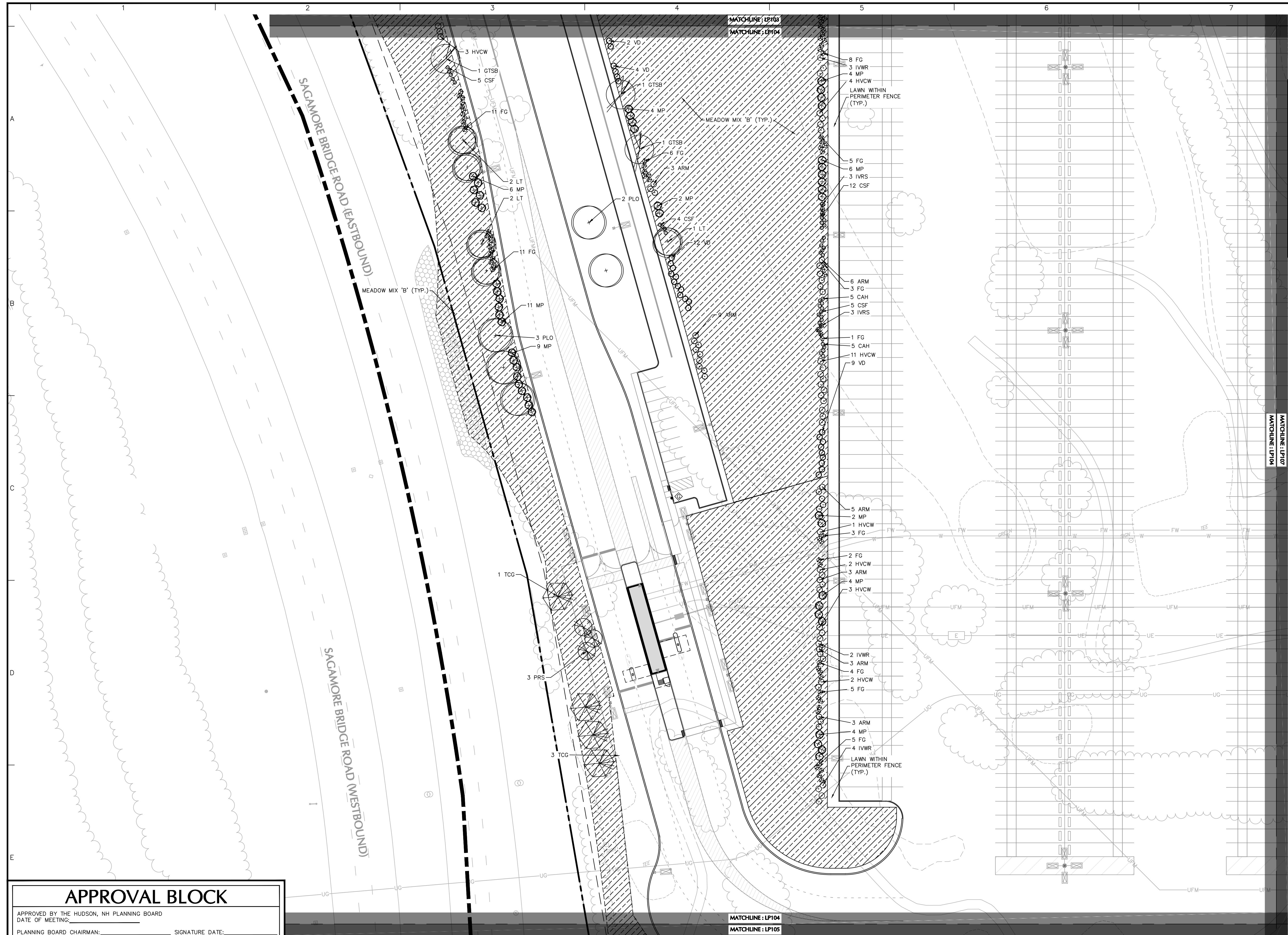
Project
HUDSON LOGISTICS CENTER
MAP No. 239, LOT No. 1
HUDSON
HILLSBOROUGH NEW HAMPSHIRE
Drawing Title
LANDSCAPE PLANTING PLAN III

Project No. 151010101	Drawing No. LP103
Date 09/09/2022	Drawn By KK
Checked By MH	

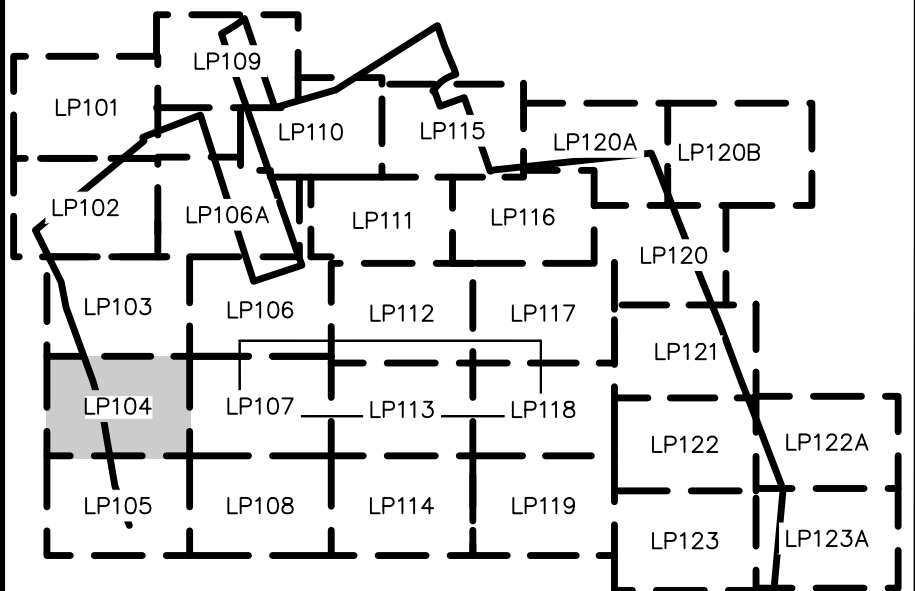
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PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____
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SHEET LEGEND
1"=150'



Project No. 151010101

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MAP No. 239, LOT No. 1
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HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

LANDSCAPE PLANTING PLAN IV

Project No. 151010101 Drawing No.

Date 09/09/2022

Drawn By **KK**

Checked By **MH**

LP104

APPROVAL BLOCK

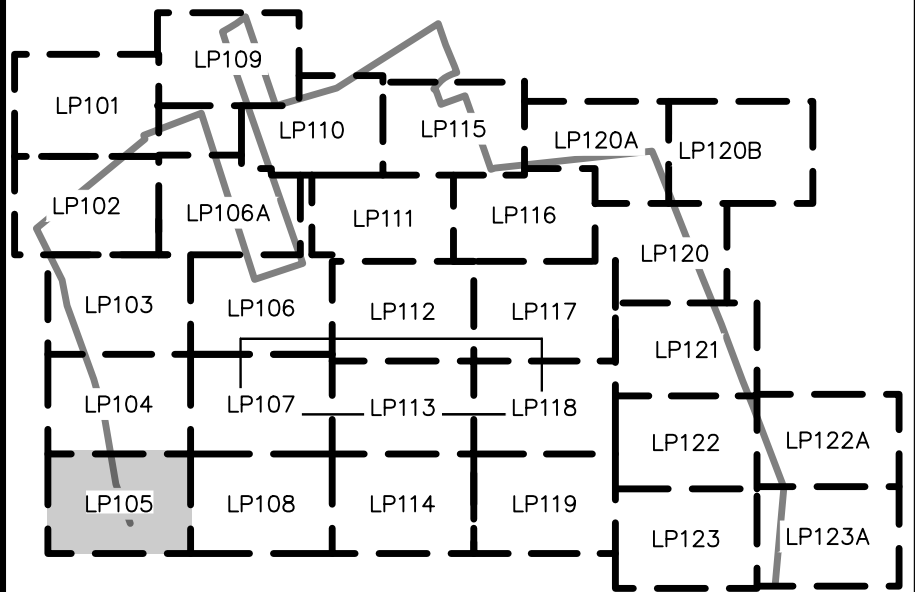
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HUDSON
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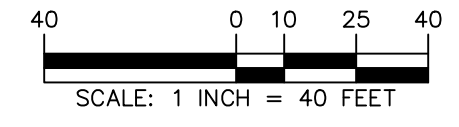
Drawing Title
LANDSCAPE PLANTING PLAN V

Project No. 151010101	Drawing No. LP105
Date 09/09/2022	
Drawn By KK	
Checked By MH	

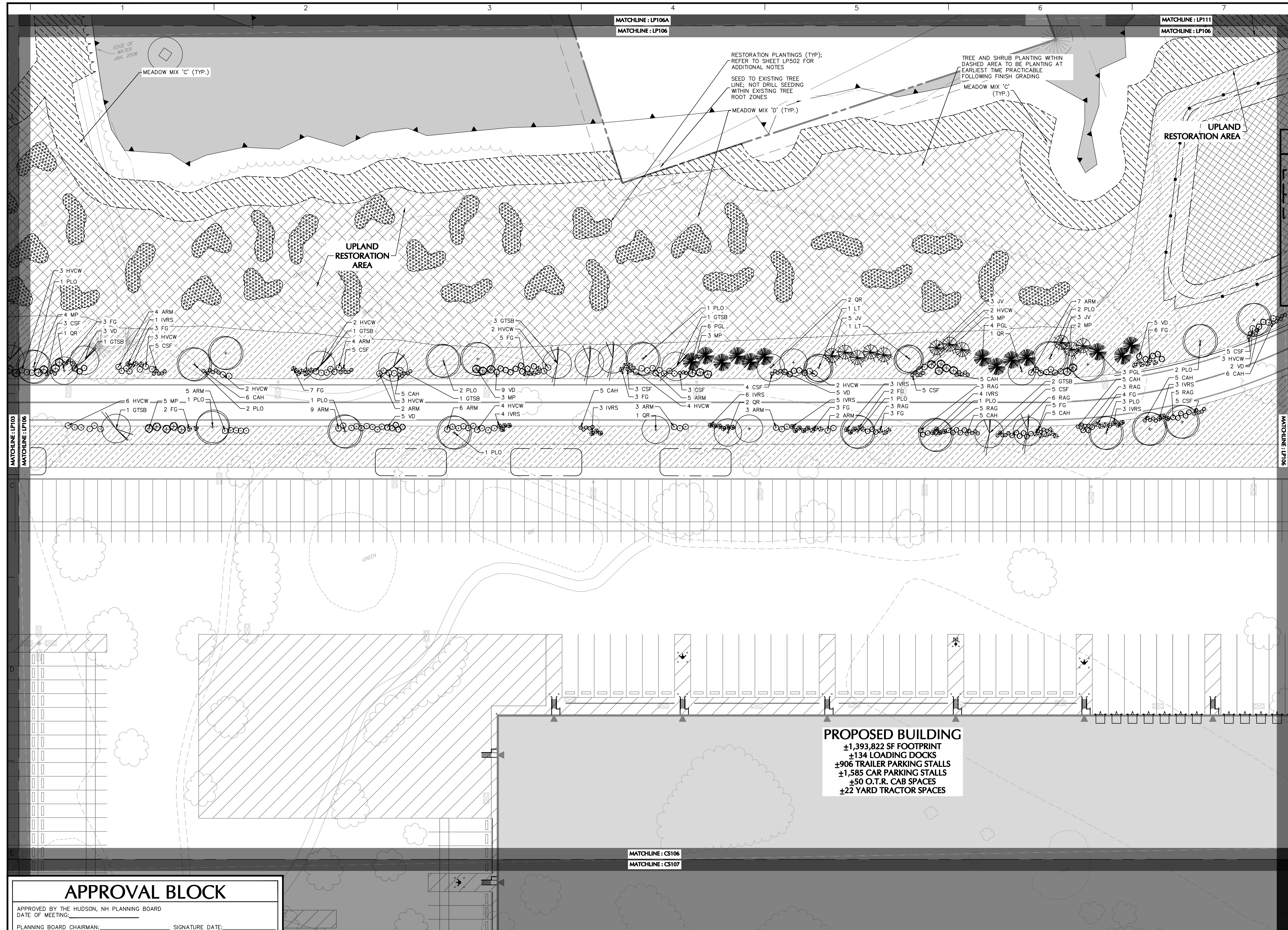
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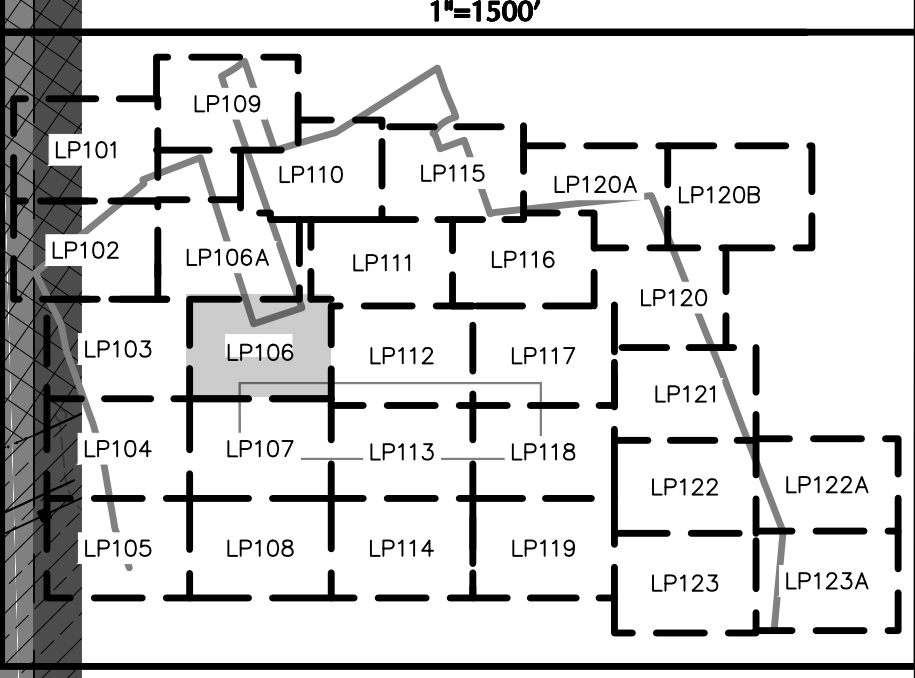
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Drawing Title

LANDSCAPE PLANTING PLAN VI

Project No. 151010101 Drawing No.

Date 09/09/2022

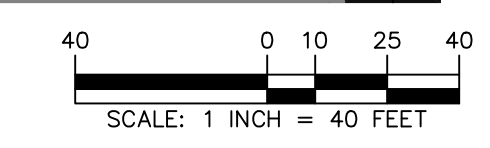
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 Checked By **MH**

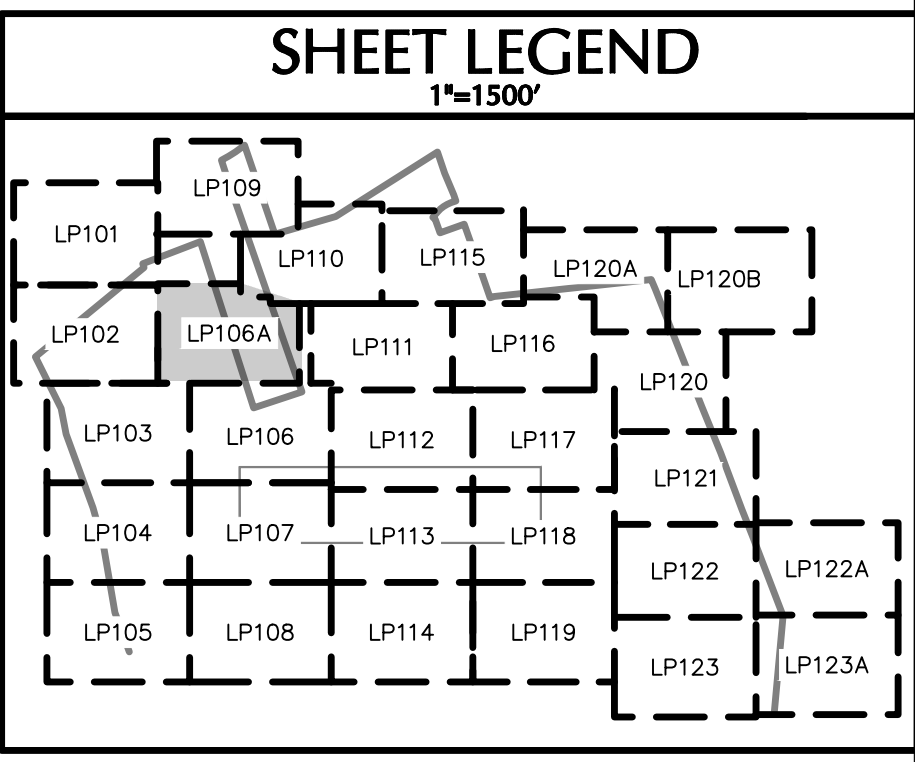
LP106

APPROVAL BLOCK

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Revisions		
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Project
HUDSON LOGISTICS CENTER
 MAP No. 239, LOT No. 1
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Drawing Title
LANDSCAPE PLANTING PLAN VI A

Project No. 151010101	Drawing No. LP106A
Date 09/09/2022	Drawn By KK
Checked By MH	

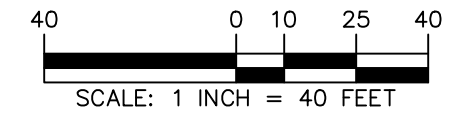
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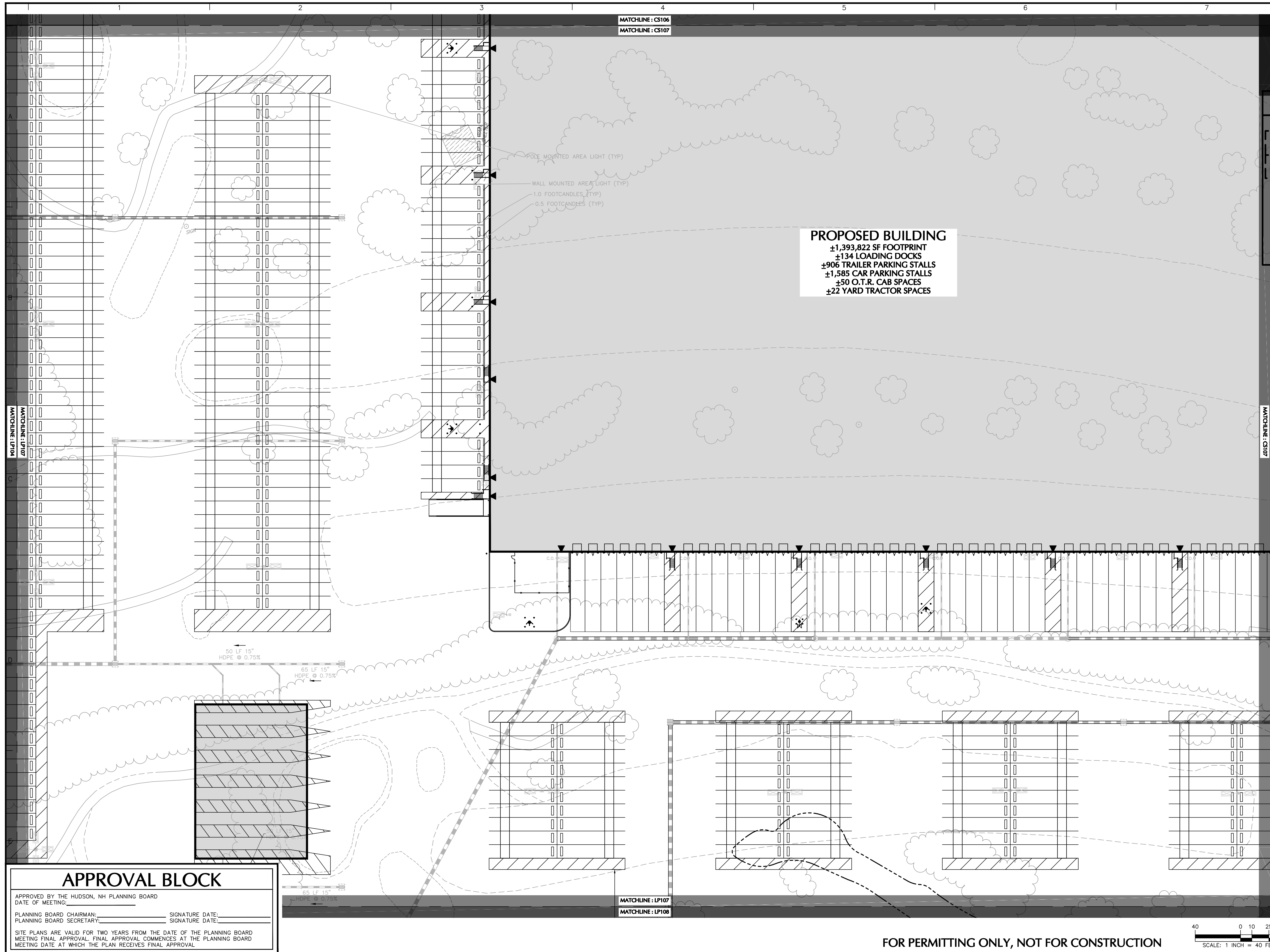
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MATCHLINE: LP106A
 MATCHLINE: LP106

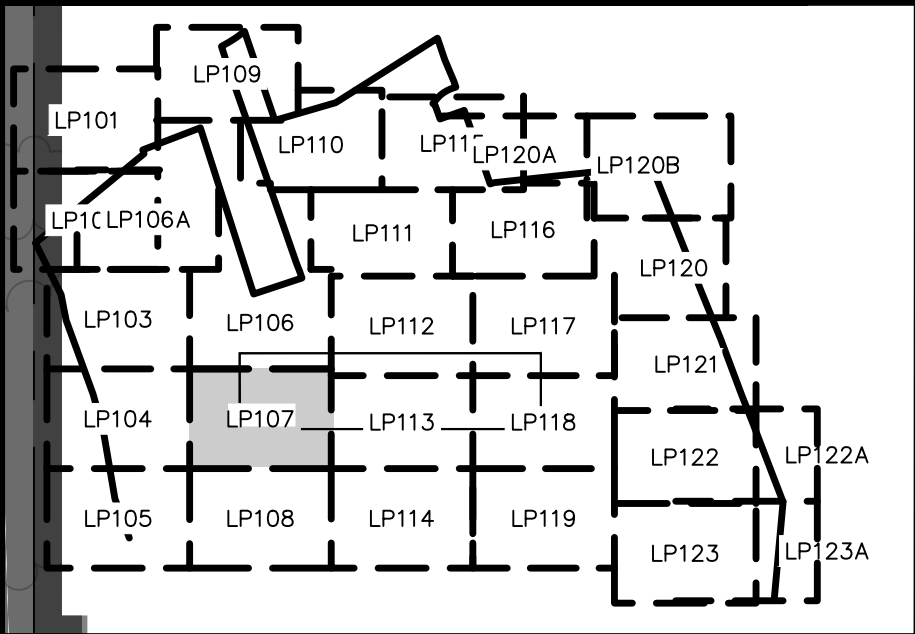


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PROPOSED BUILDING
 ±1,393,822 SF FOOTPRINT
 ±134 LOADING DOCKS
 ±906 TRAILER PARKING STALLS
 ±1,585 CAR PARKING STALLS
 ±50 O.T.R. CAB SPACES
 ±22 YARD TRACTOR SPACES

SHEET LEGEND



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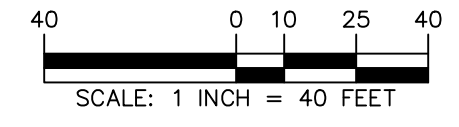
Project
HUDSON LOGISTICS CENTER
 MAP No. 239, LOT No. 1
 HUDSON NEW HAMPSHIRE

Drawing Title
LANDSCAPE PLANTING PLAN VII

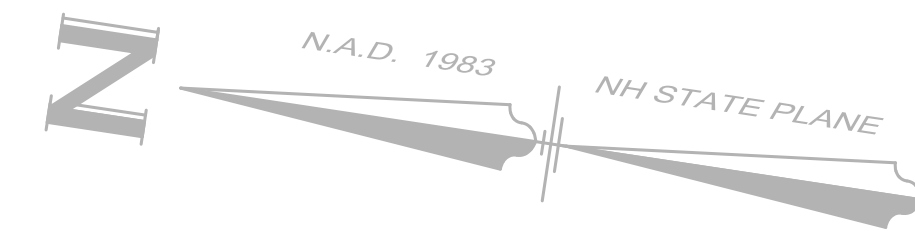
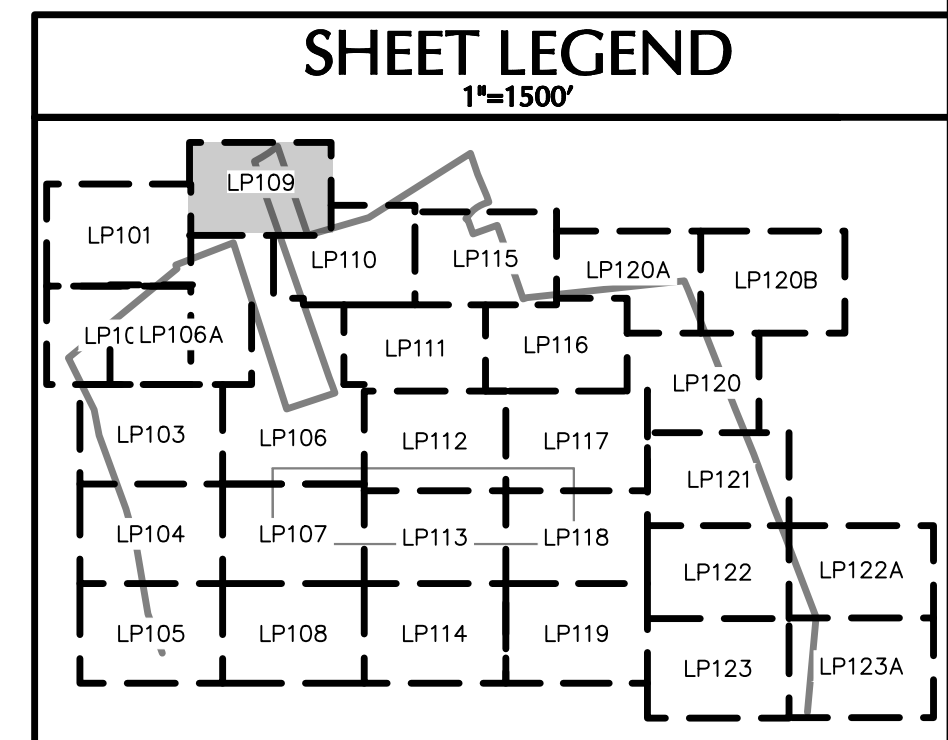
Project No. 151010101	Drawing No. LP107
Date 09/09/2022	
Drawn By KK	
Checked By MH	

APPROVAL BLOCK
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Project No. 151010101



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Project
HUDSON LOGISTICS CENTER
MAP No. 239, LOT No. 1
HUDSON
HILLSBOROUGH NEW HAMPSHIRE

Drawing Title
LANDSCAPE PLANTING PLAN IX

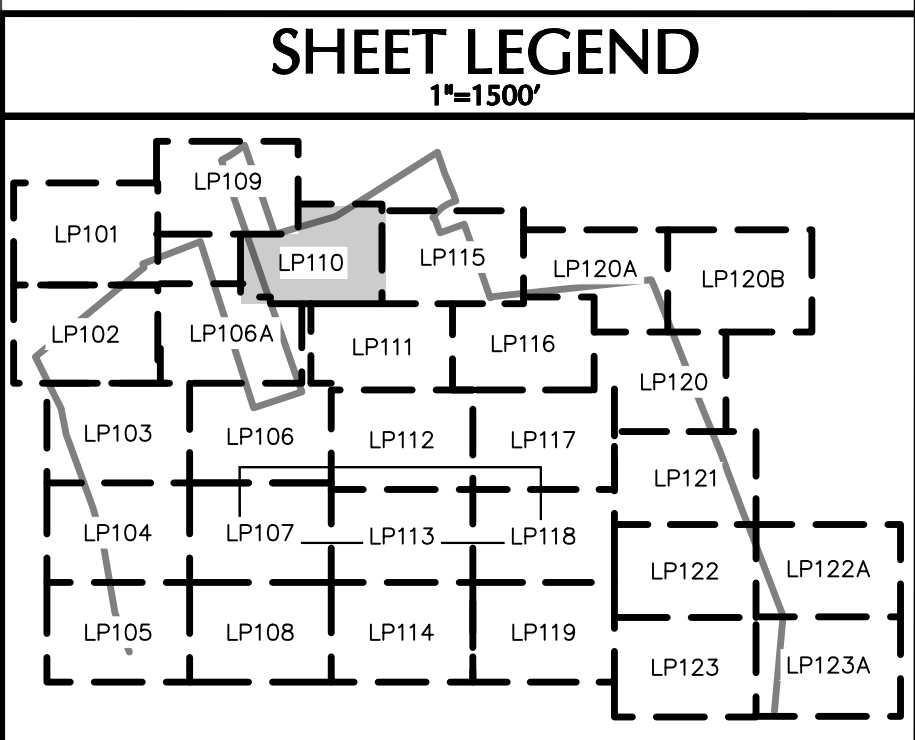
Project No. 151010101	Drawing No. LP109
Date 09/09/2022	
Drawn By KK	
Checked By MH	

APPROVAL BLOCK
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Project
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 MAP No. 239, LOT No. 1
 HUDSON
 HILLSBOROUGH NEW HAMPSHIRE

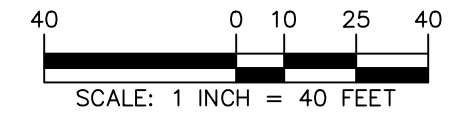
Drawing Title
LANDSCAPE PLANTING PLAN X

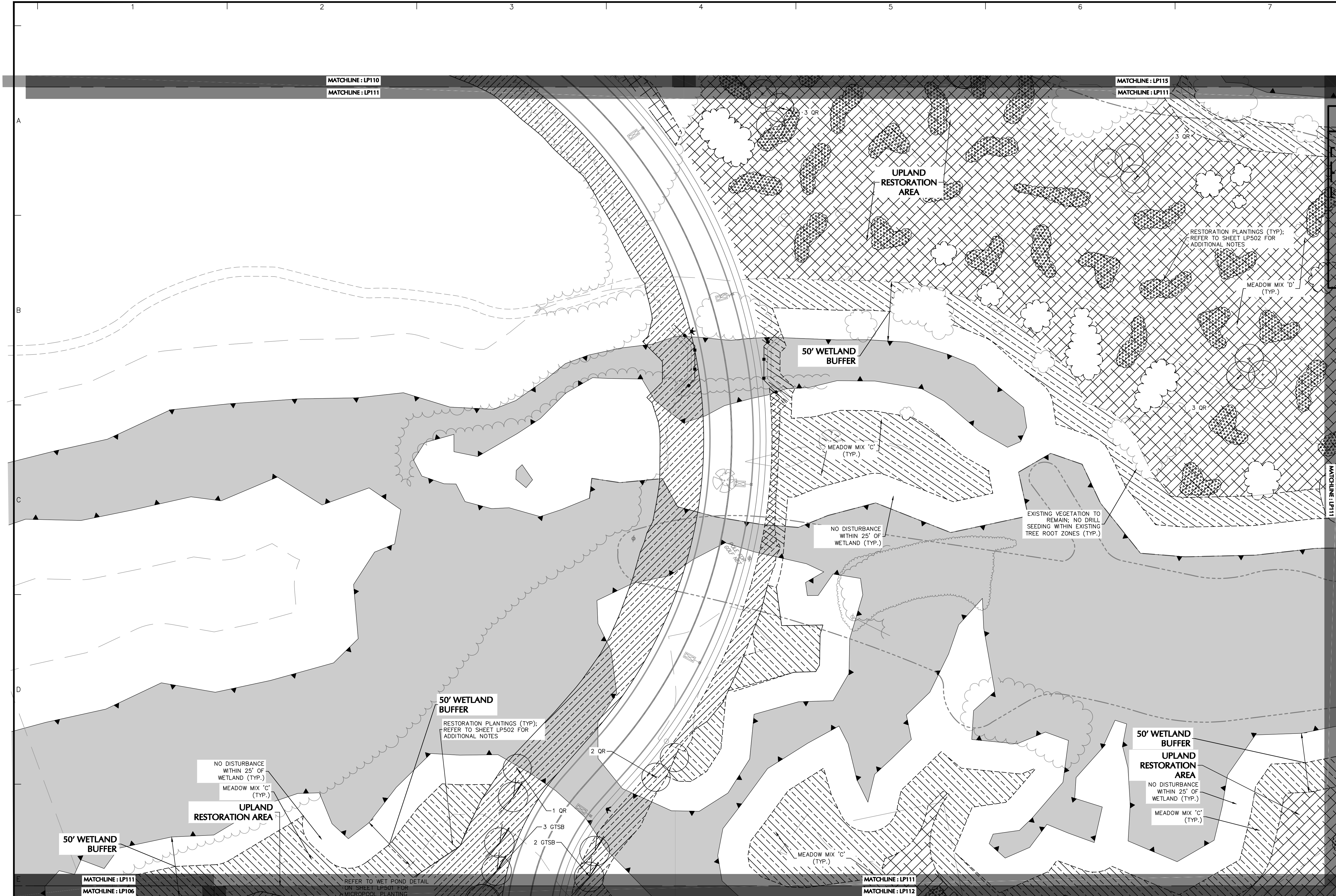
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Date 09/09/2022	Drawn By KK
Checked By MH	

APPROVAL BLOCK

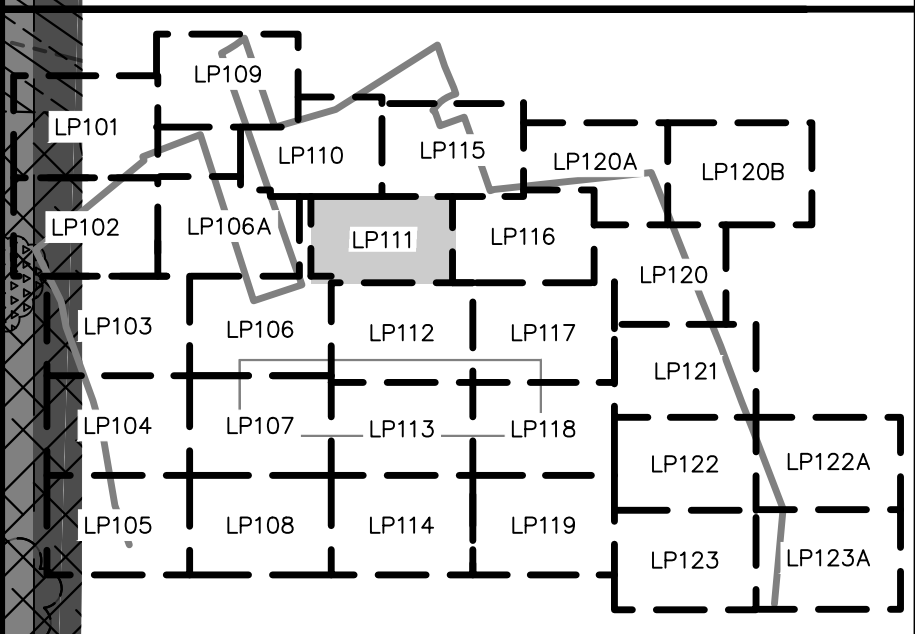
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SHEET LEGEND
1"=1500'



Date	Description	No.
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Signature: *Michael A. Michel* Date: _____

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 HUDSON NEW HAMPSHIRE

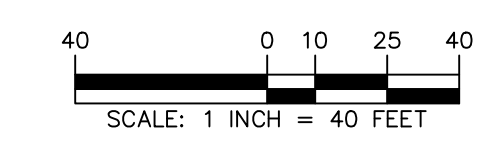
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LANDSCAPE PLANTING PLAN XI

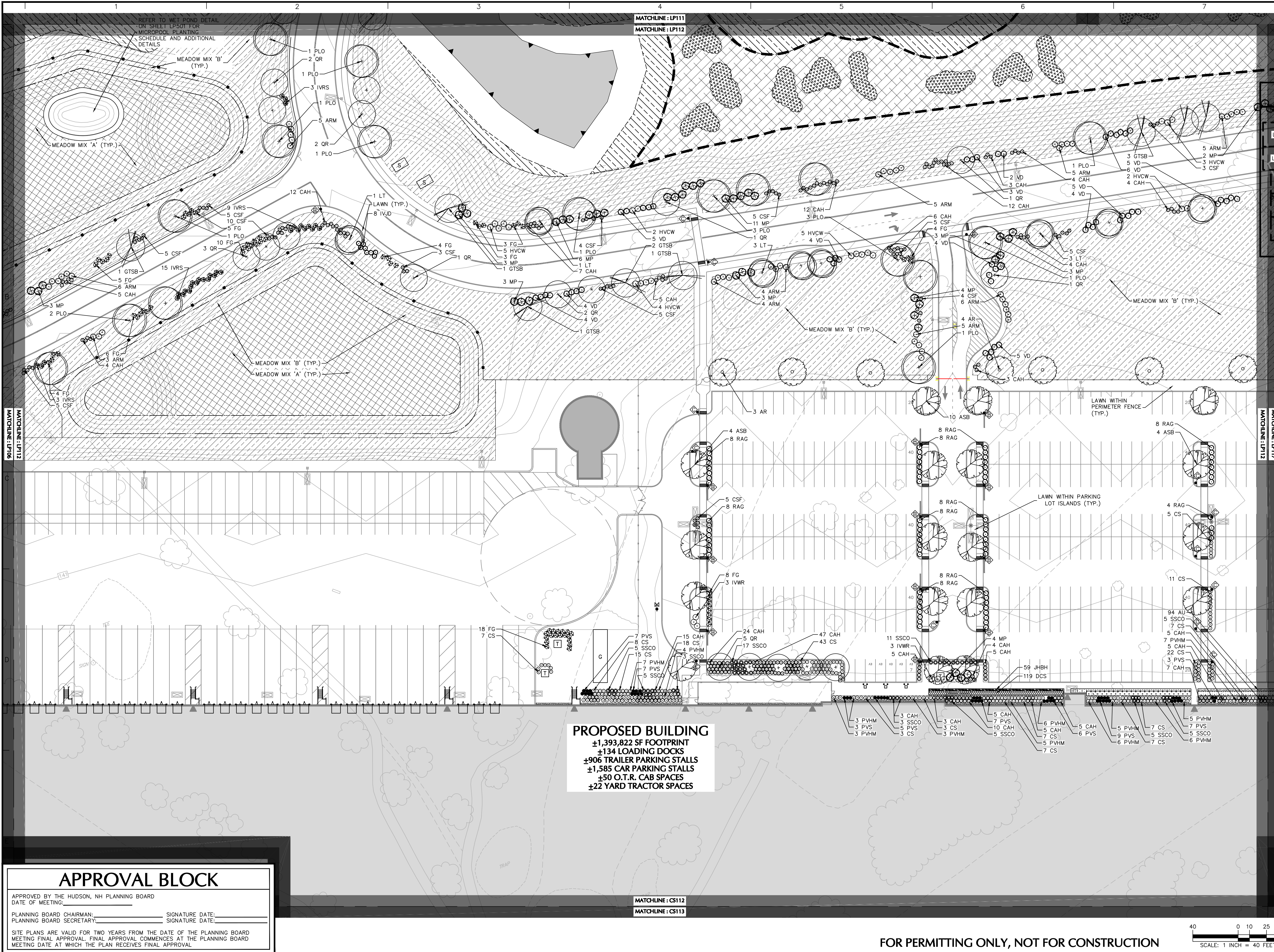
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Date 09/09/2022	
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Checked By MH	

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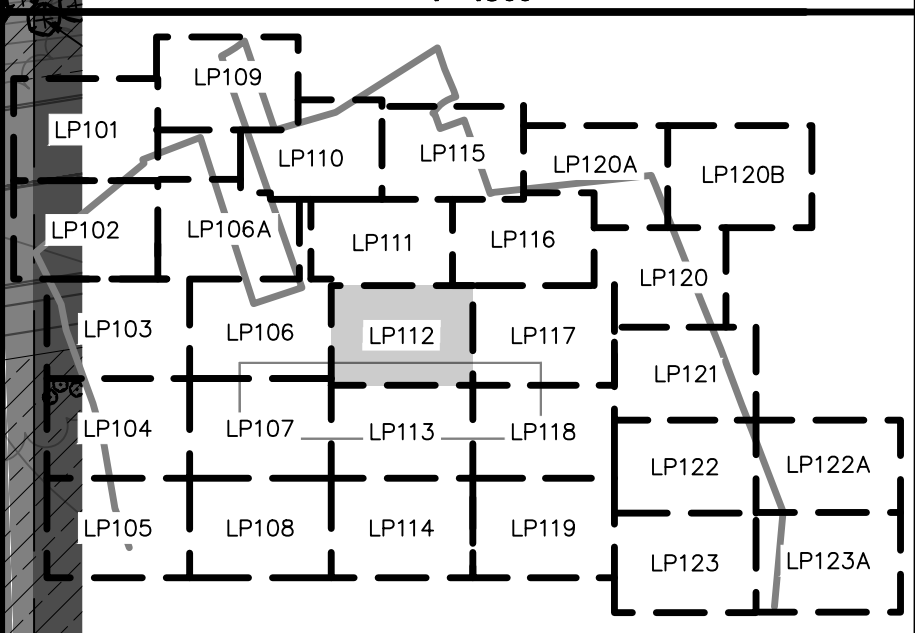
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Project

HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
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HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

LANDSCAPE PLANTING PLAN XII

Project No. 151010101 Drawing No.

Date 09/09/2022

Drawn By **KK**

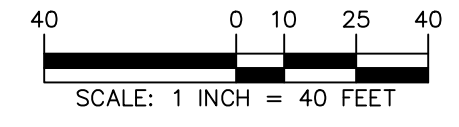
Checked By **MH**

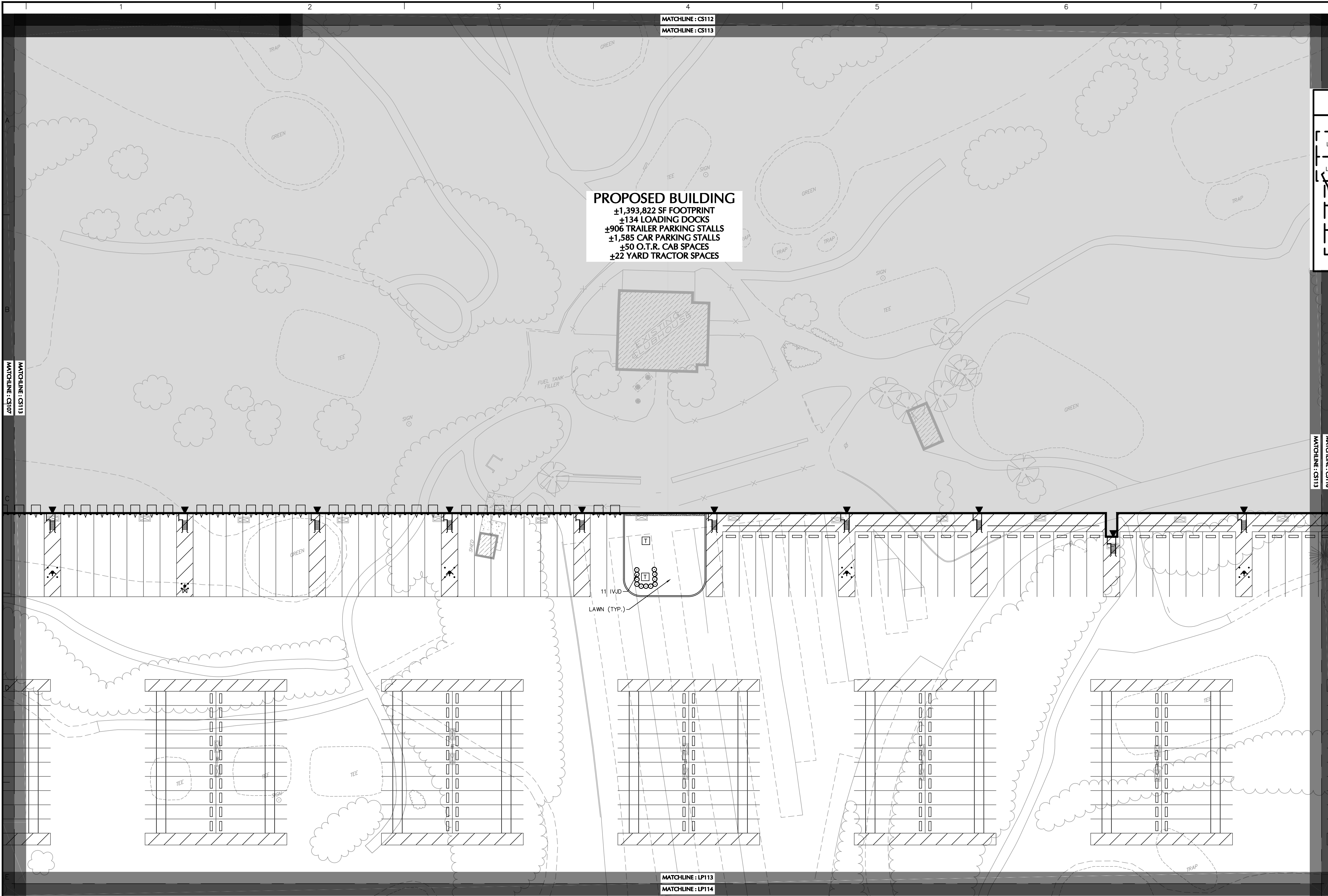
LP112

APPROVAL BLOCK

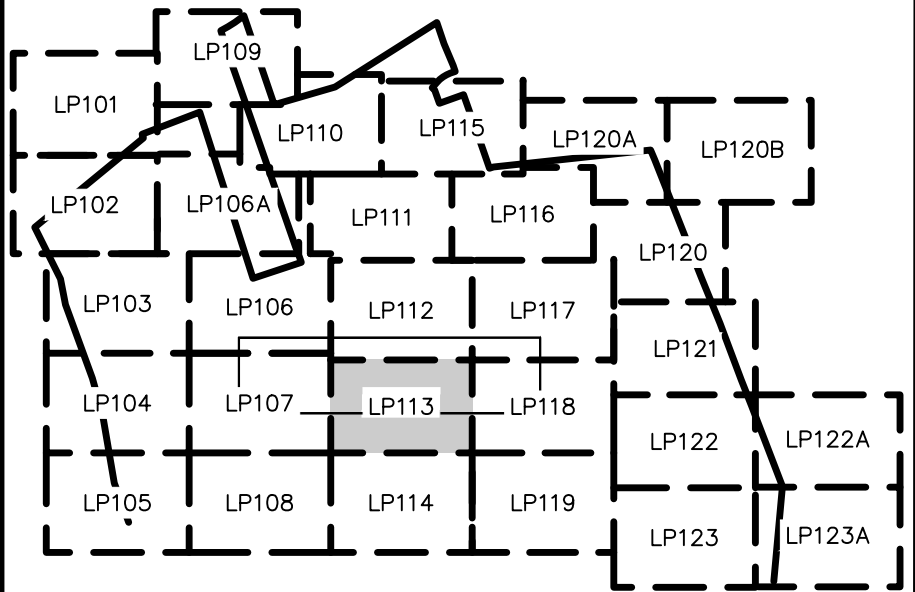
APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____
 PLANNING BOARD CHAIRMAN: _____ SIGNATURE DATE: _____
 PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____
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SHEET LEGEND
1"=1500'



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Signature:  Date: _____



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Project
HUDSON LOGISTICS CENTER
 MAP No. 239, LOT No. 1
 HUDSON
 HILLSBOROUGH NEW HAMPSHIRE

Drawing Title
LANDSCAPE PLANTING PLAN XIII

Project No. 151010101	Drawing No. LP113
Date 09/09/2022	
Drawn By KK	
Checked By MH	

MATCHLINE: CS107

MATCHLINE: CS113

MATCHLINE: CS118

MATCHLINE: CS112
MATCHLINE: CS113

MATCHLINE: LP113
MATCHLINE: LP114

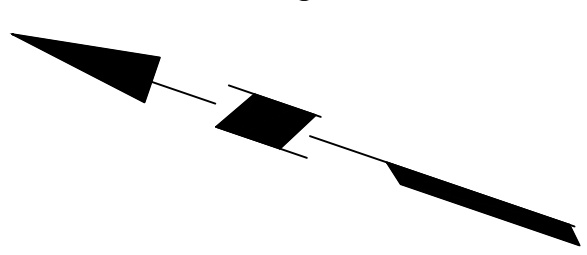
APPROVAL BLOCK

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 PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____
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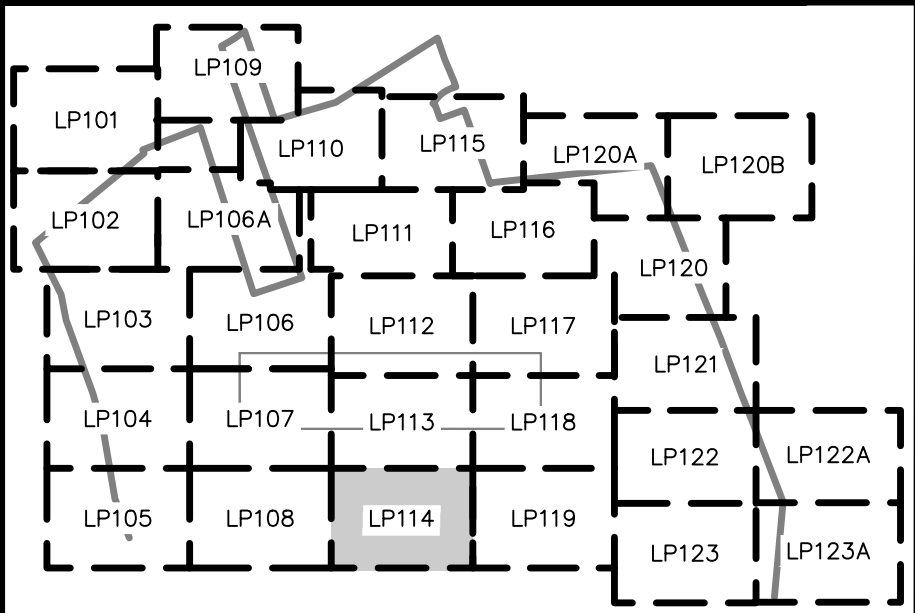
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MAP No. 239, LOT No. 1
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Drawing Title

LANDSCAPE PLANTING PLAN XIV

Project No. 151010101 Drawing No.

Date 09/09/2022 **LP114**

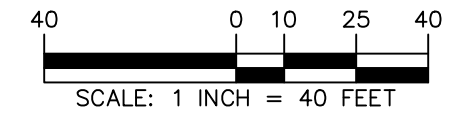
Drawn By **KK**

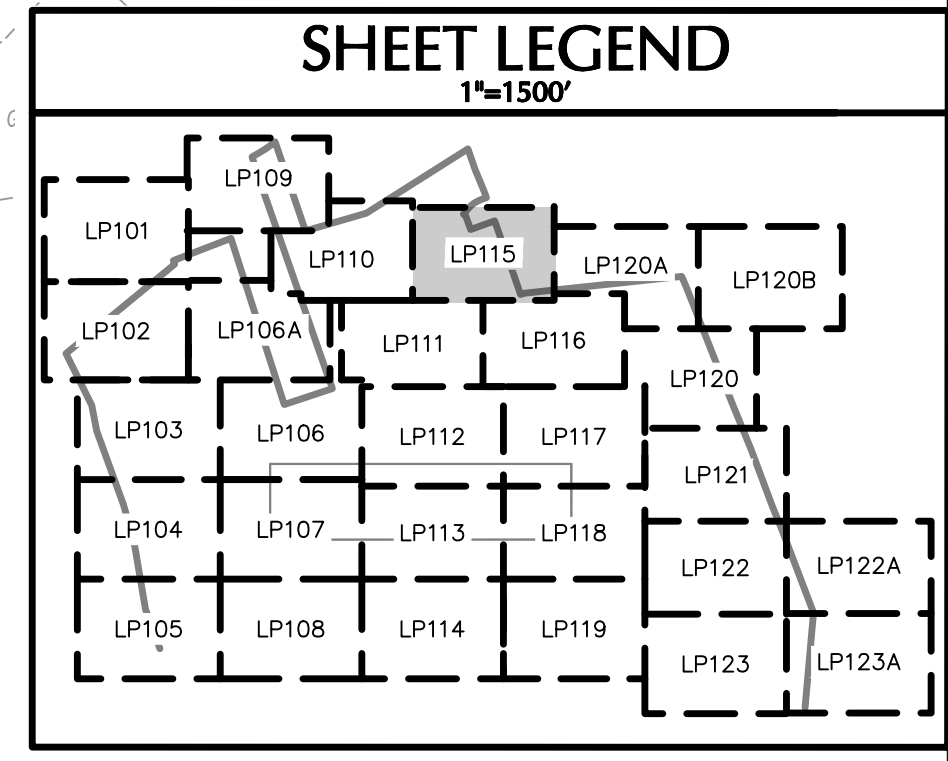
Checked By **MH**

APPROVAL BLOCK

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Drawing Title
LANDSCAPE PLANTING PLAN XV

Project No. 151010101	Drawing No. LP115
Date 09/09/2022	Drawn By KK
Checked By MH	

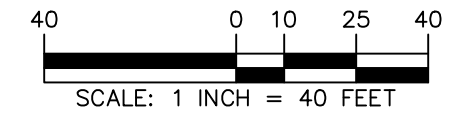
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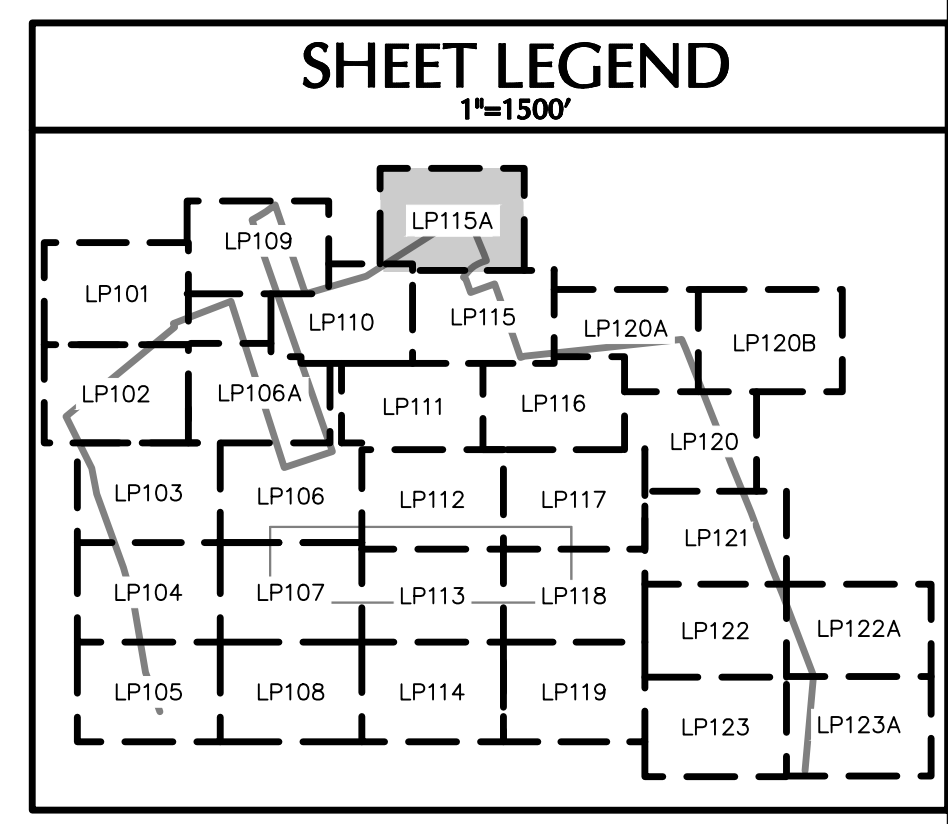
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Drawing Title
LANDSCAPE PLANTING PLAN XV A

Project No. 151010101	Drawing No. LP115A
Date 09/09/2022	Drawn By KK
Checked By MH	

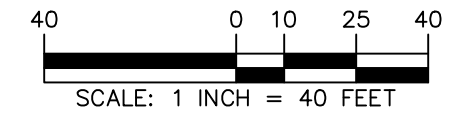
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APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

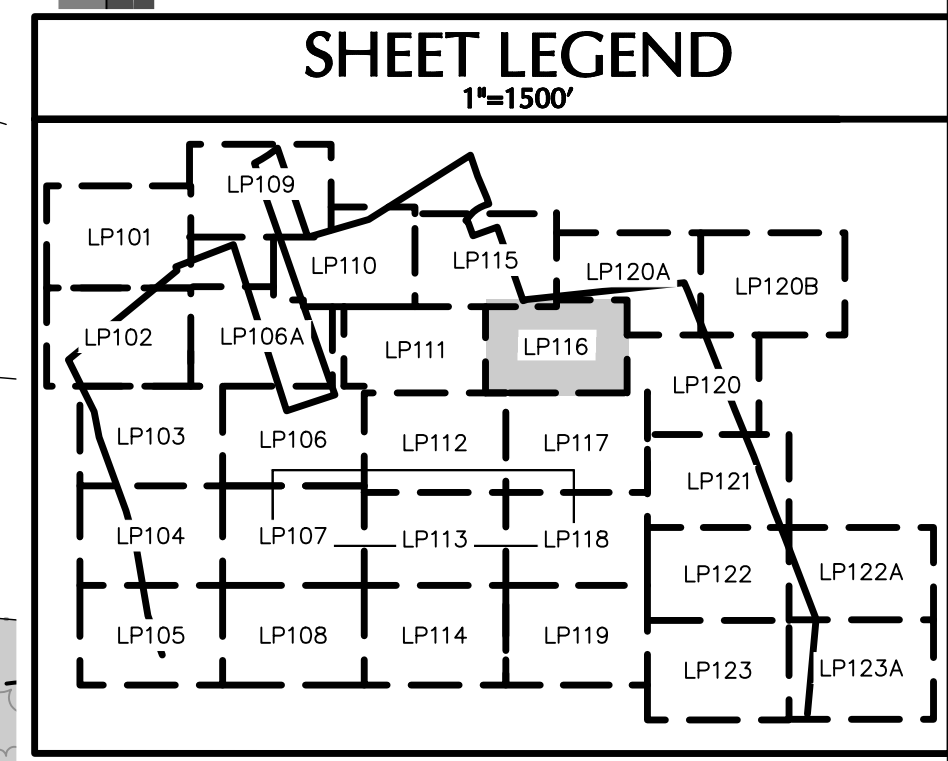
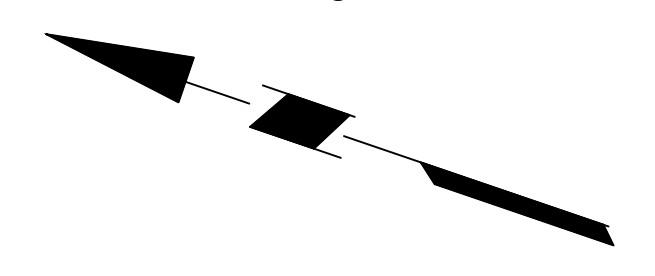
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Drawing Title
LANDSCAPE PLANTING PLAN XVI

Project No. 151010101	Drawing No. LP116
Date 09/09/2022	
Drawn By KK	
Checked By MH	

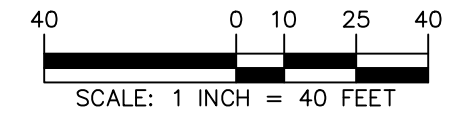
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APPROVED BY THE HUDSON, NH PLANNING BOARD
DATE OF MEETING: _____

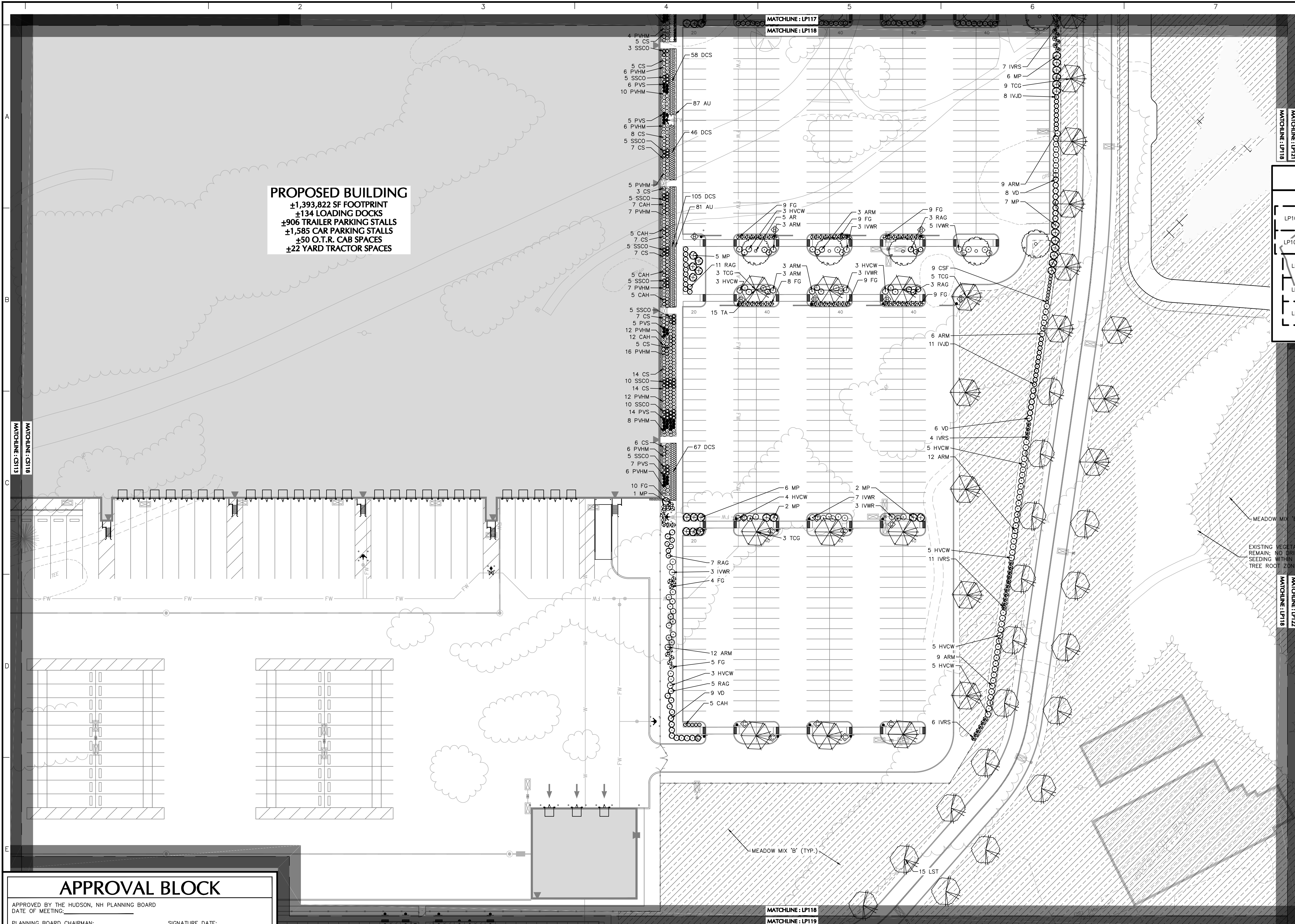
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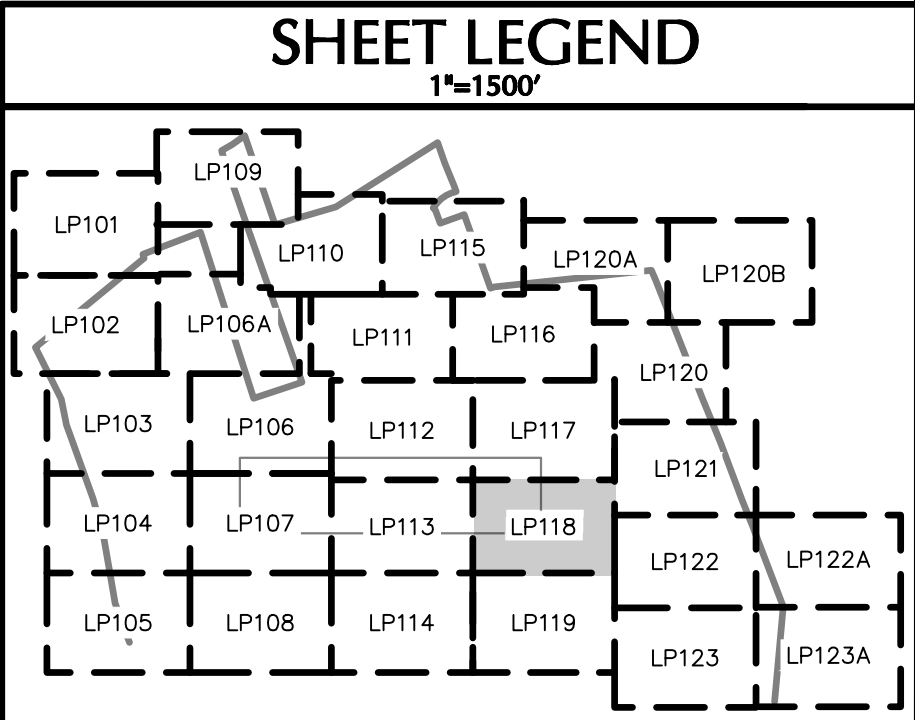
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Project No. 151010101



PROPOSED BUILDING
 ±1,393,822 SF FOOTPRINT
 ±134 LOADING DOCKS
 ±906 TRAILER PARKING STALLS
 ±1,585 CAR PARKING STALLS
 ±50 O.T.R. CAB SPACES
 ±22 YARD TRACTOR SPACES



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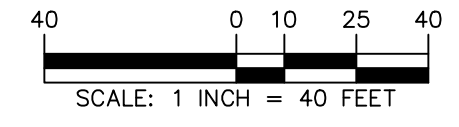
Project
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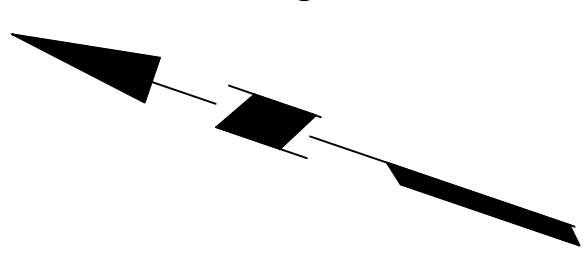
Drawing Title
LANDSCAPE PLANTING PLAN XXVIII

Project No. 151010101	Drawing No. LP118
Date 09/09/2022	Drawn By KK
Checked By MH	

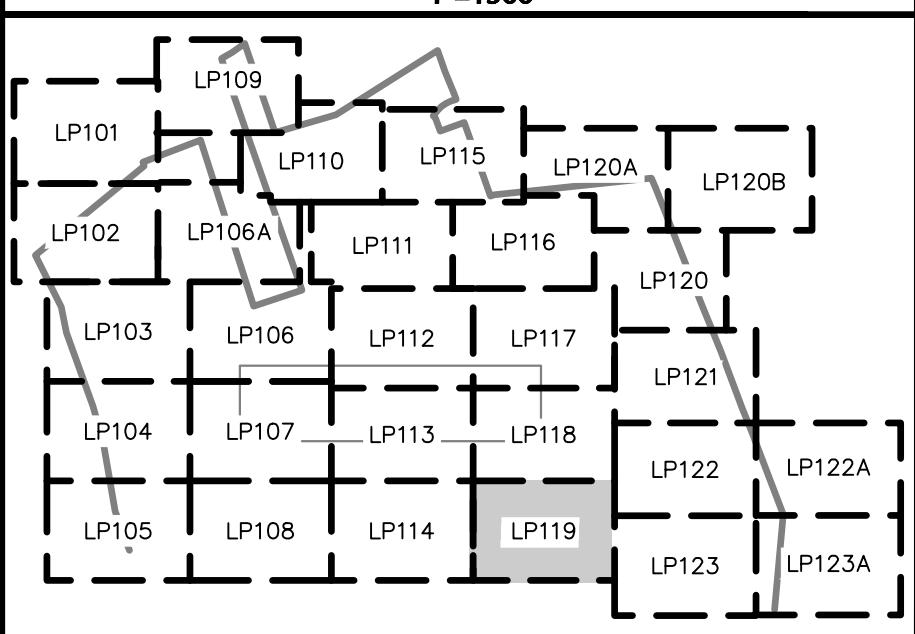
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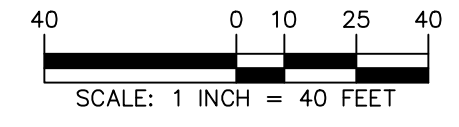
Drawing Title
LANDSCAPE PLANTING PLAN XIX

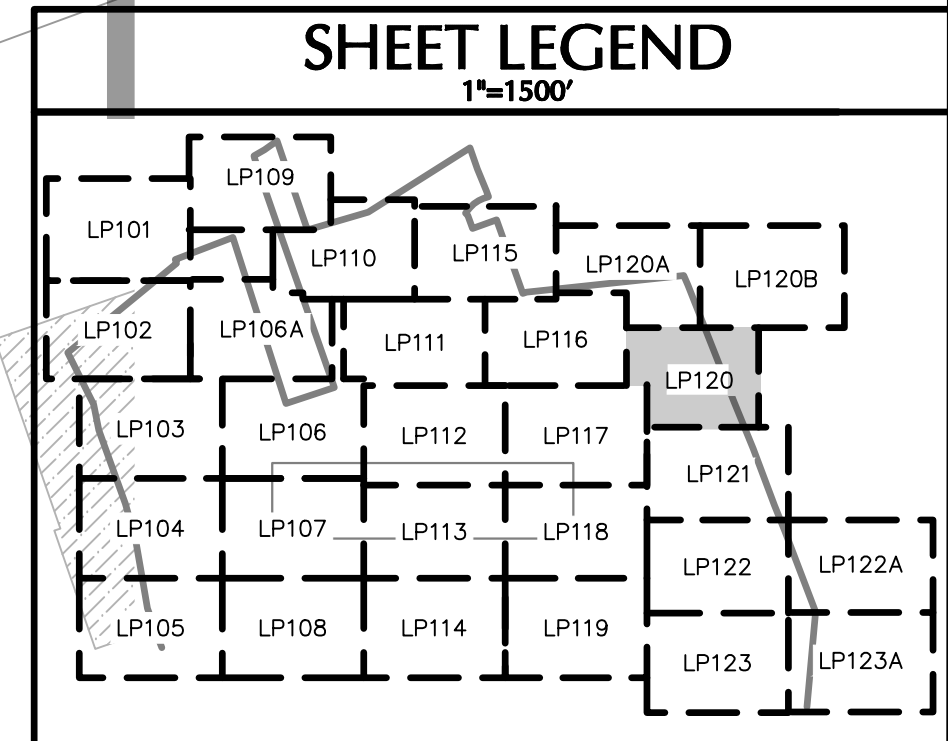
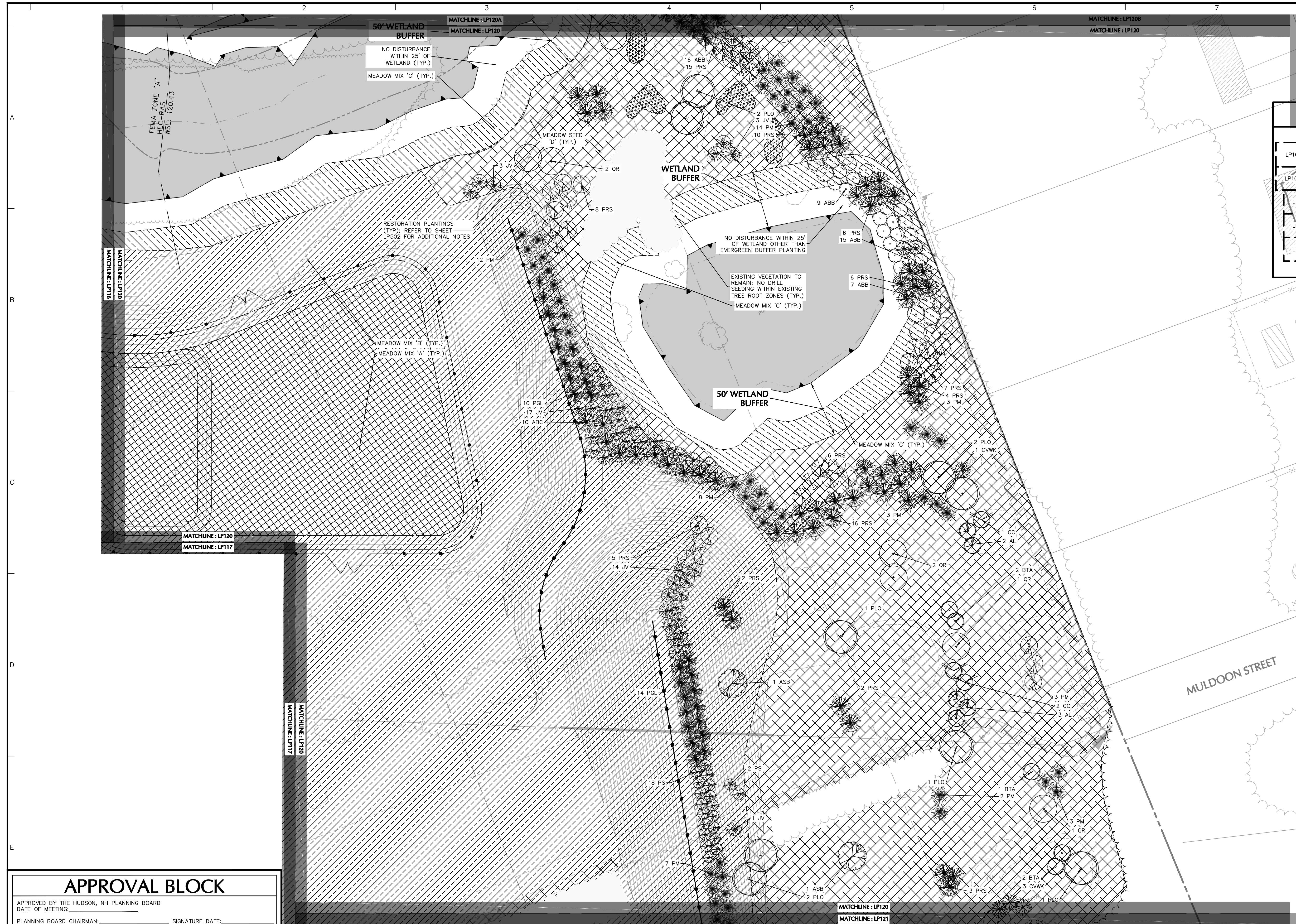
Project No. 151010101	Drawing No. LP119
Date 09/09/2022	
Drawn By KK	
Checked By MH	

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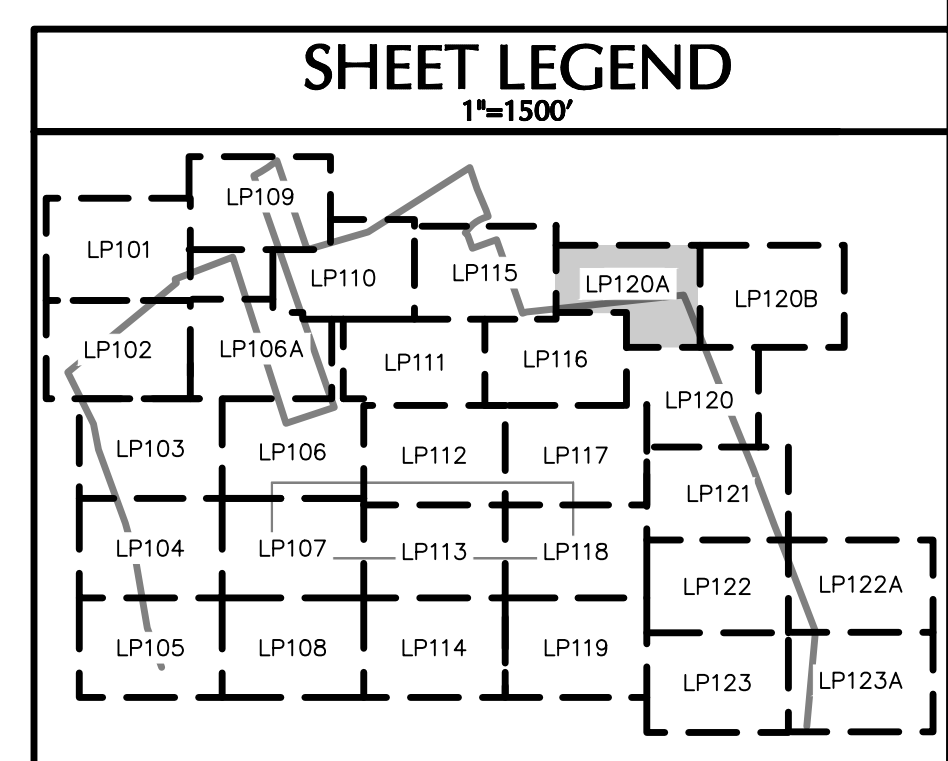
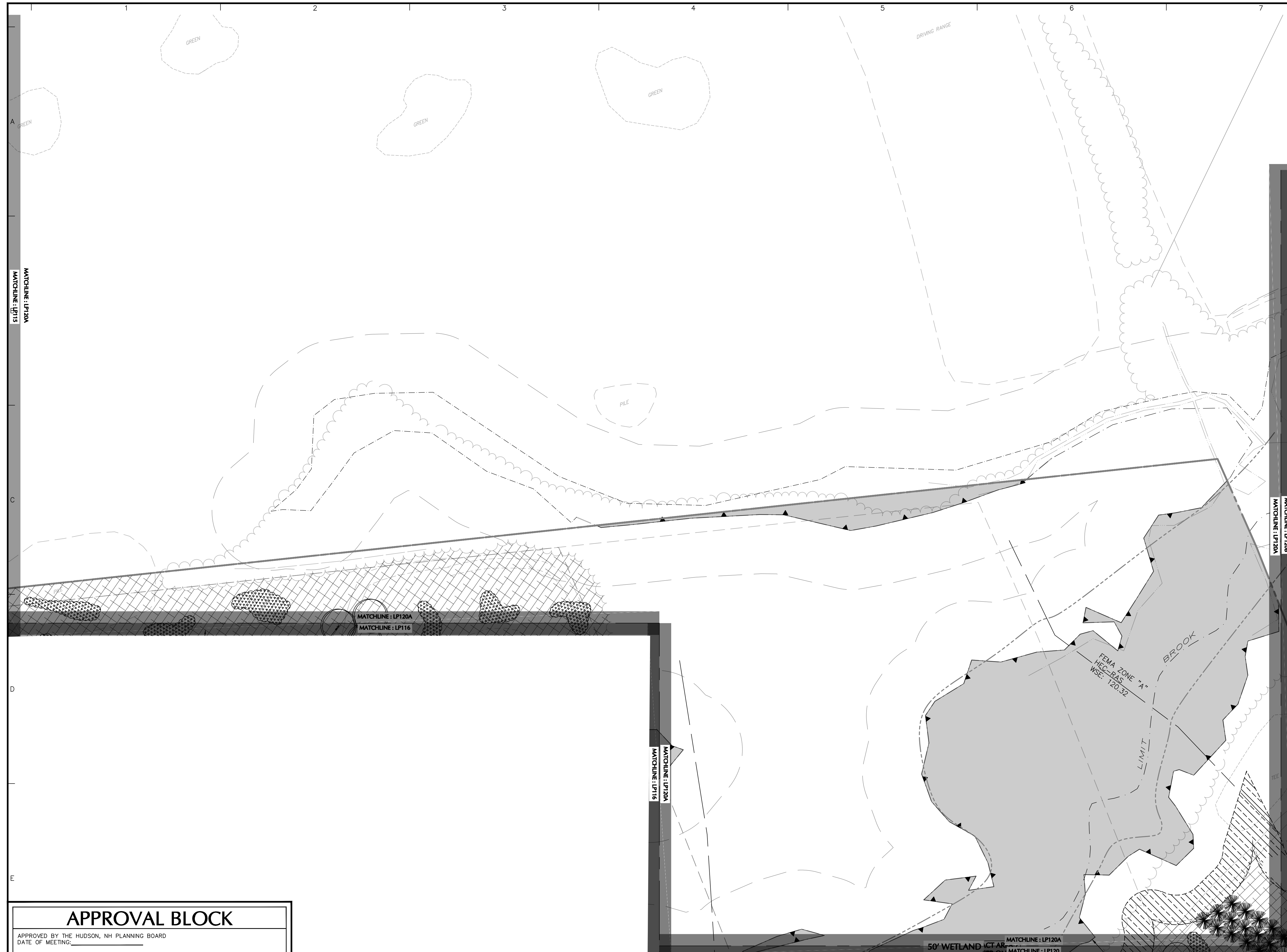
Project
HUDSON LOGISTICS CENTER
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 Drawing Title
LANDSCAPE PLANTING PLAN XX

Project No. 151010101	Drawing No. LP120
Date 09/09/2022	Drawn By KK
Checked By MH	

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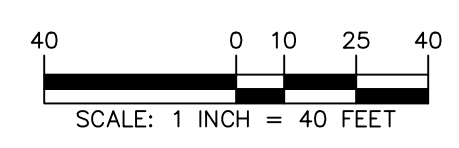
Drawing Title
LANDSCAPE PLANTING PLAN XX A

Project No. 151010101	Drawing No. LP120A
Date 09/09/2022	
Drawn By KK	
Checked By MH	

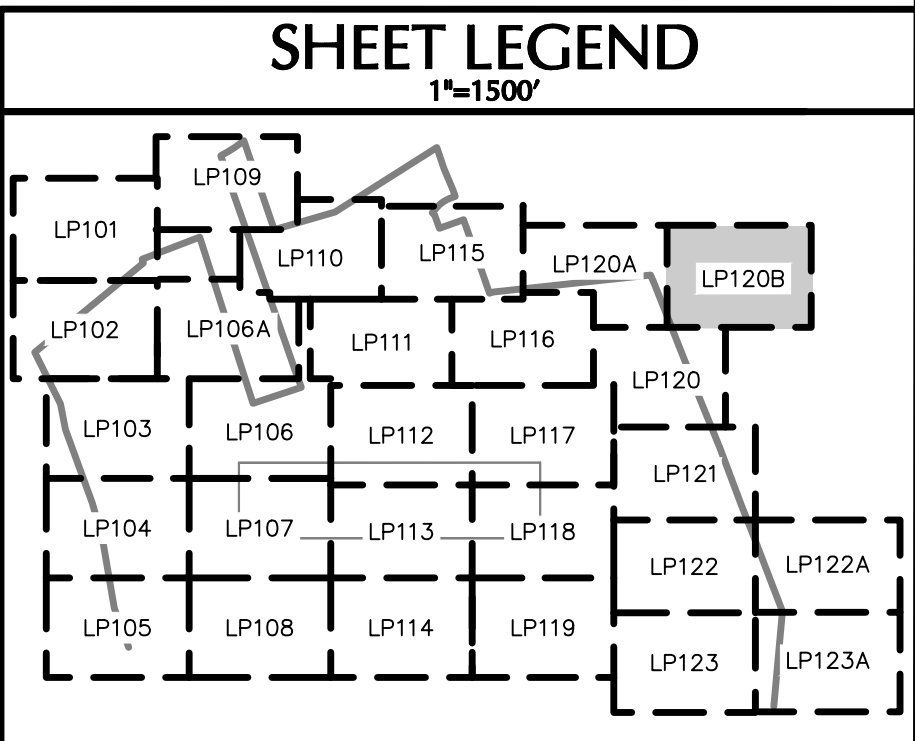
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Drawing Title

LANDSCAPE PLANTING PLAN XX B

Project No. Drawing No.

151010101

Date

09/09/2022

Drawn By

KK

Checked By

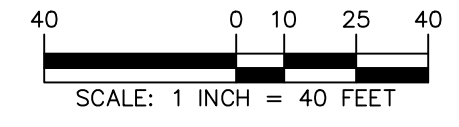
MH

LP120 B

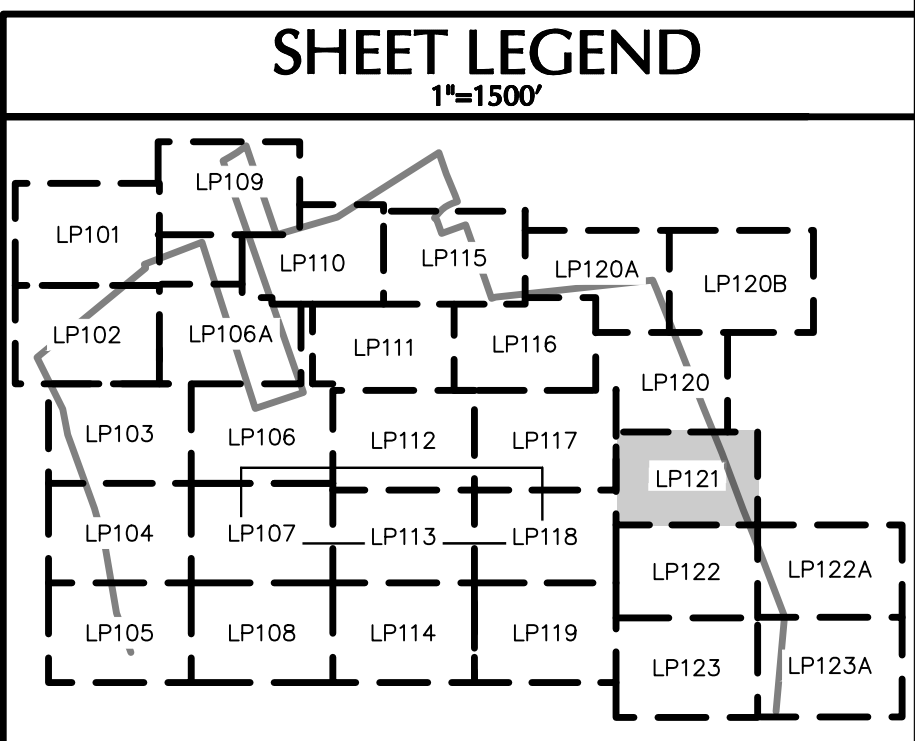
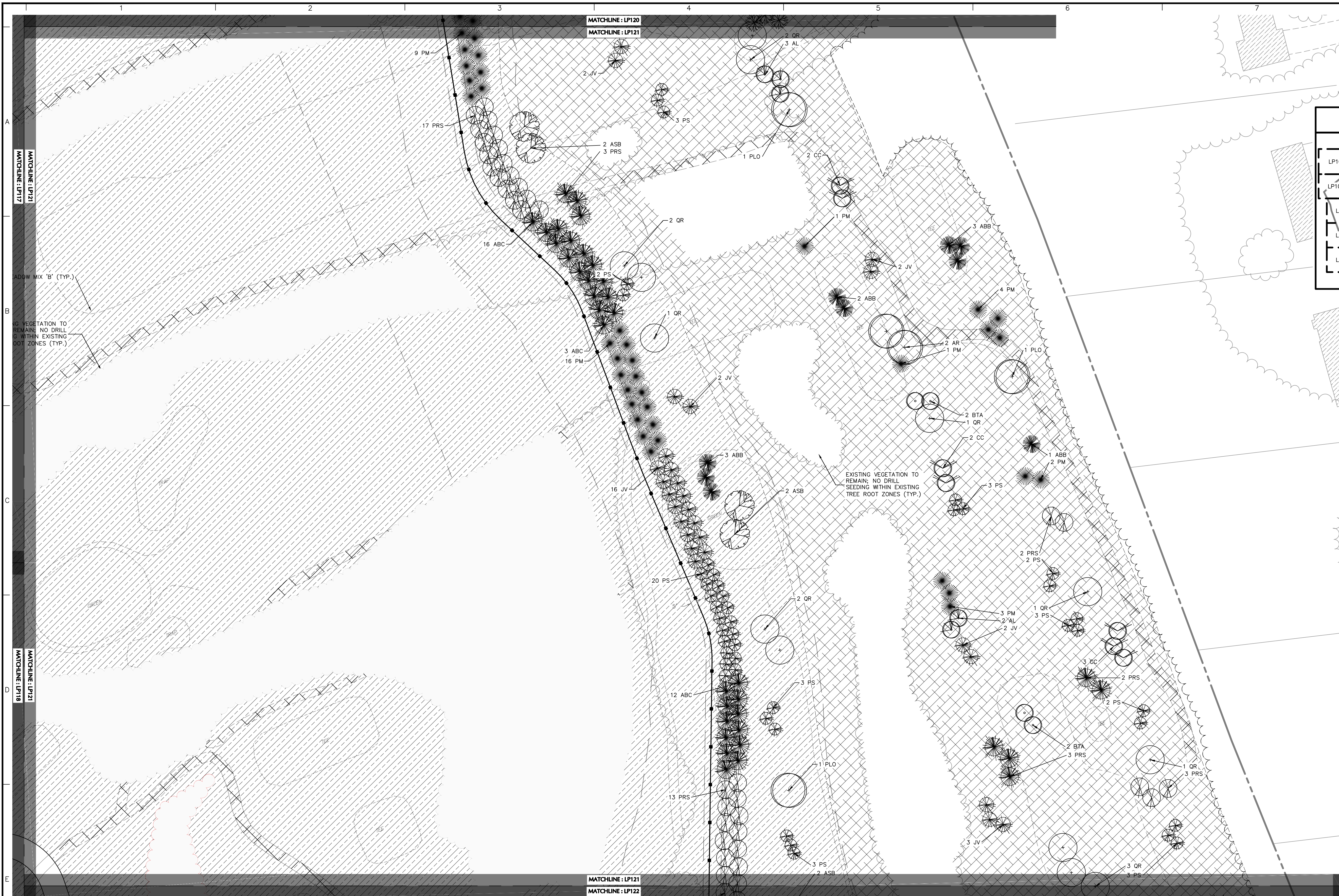
APPROVAL BLOCK

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Signature: *Michael J. P. Langan* Date: _____

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Drawing Title
LANDSCAPE PLANTING PLAN XXI

Project No. 151010101	Drawing No. LP121
Date 09/09/2022	
Drawn By KK	
Checked By MH	

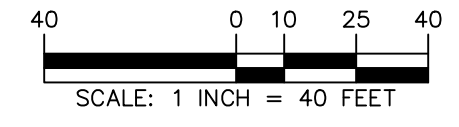
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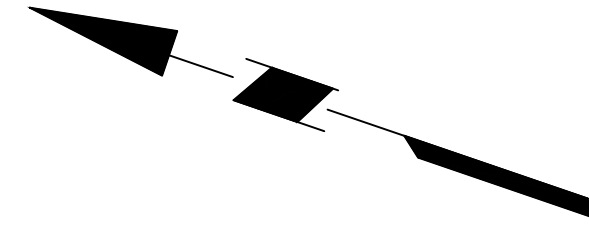
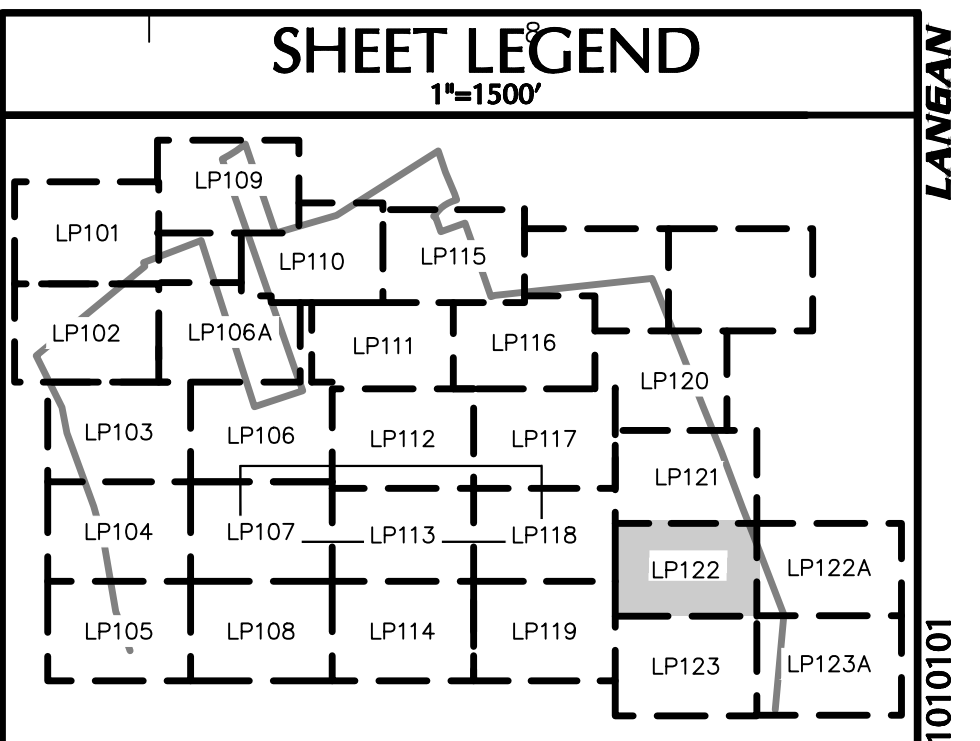
APPROVED BY THE HUDSON, NH PLANNING BOARD
 DATE OF MEETING: _____

PLANNING BOARD CHAIRMAN: _____ SIGNATURE DATE: _____
 PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____

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CONTRACTOR SHALL KEEP ALL TRENCHES AND SPECIFICATIONS FOR ALL UTILITIES IN THE LOCATION OF EXISTING UTILITIES TO BE MAINTAINED AND PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR ALL UTILITIES. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND MAINTENANCE OF ALL UTILITIES. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND MAINTENANCE OF ALL UTILITIES. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND MAINTENANCE OF ALL UTILITIES.

VEGETATION TO BE REMOVED WITHIN EXISTING ZONES (TYP.)

MATCHLINE: LP118

MATCHLINE: LP119

Date	Description	No.
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Drawing Title

LANDSCAPE PLANTING PLAN XXII

Project No.	151010101	Drawing No.	<h1>LP122</h1>	
Date	09/09/2022	Drawn By		KK
Checked By	MH			

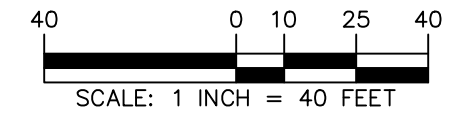
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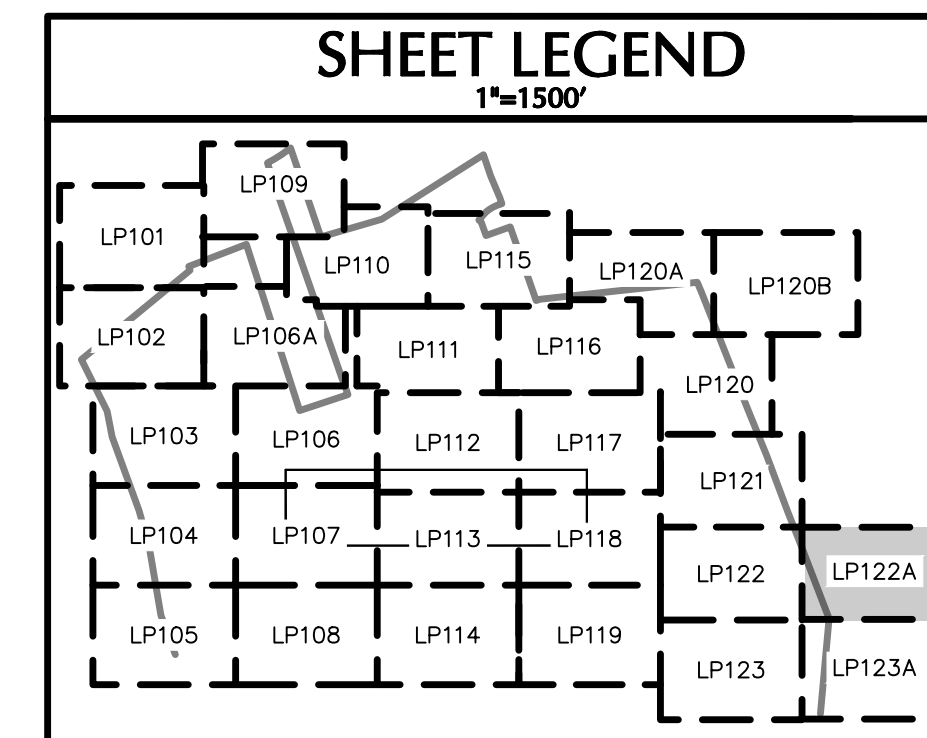
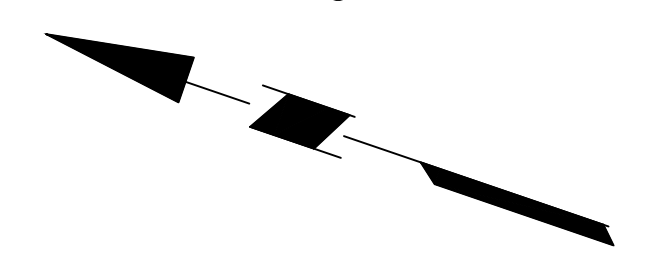
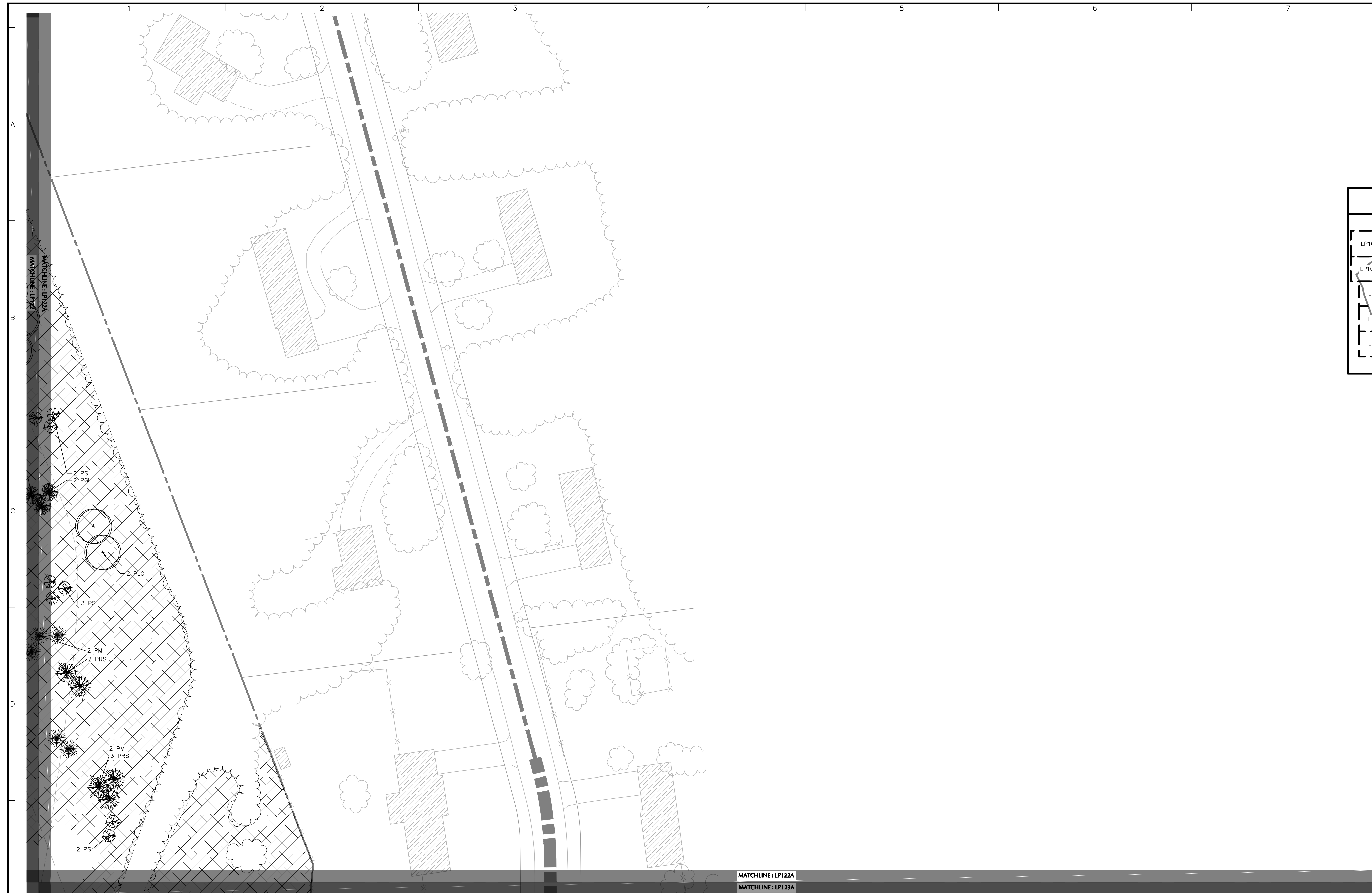
APPROVED BY THE HUDSON, NH PLANNING BOARD
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PLANNING BOARD CHAIRMAN: _____ SIGNATURE DATE: _____
PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____

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Drawing Title

LANDSCAPE PLANTING PLAN XXII A

Project No. Drawing No.

151010101

Date

09/09/2022

Drawn By

KK

Checked By

MH

LP122 A

APPROVAL BLOCK

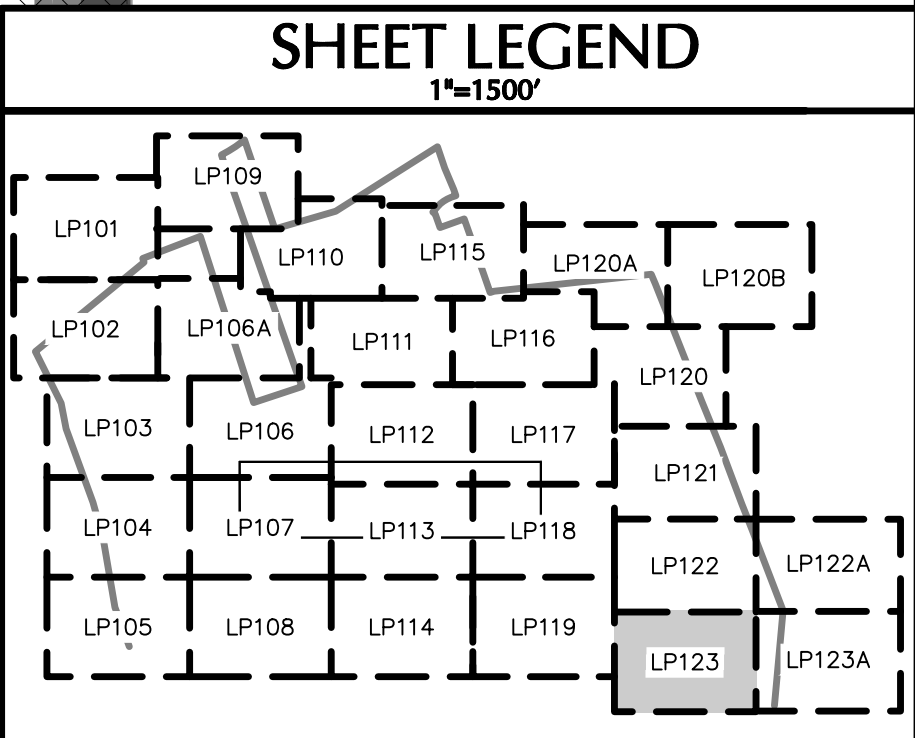
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MATCHLINE : LP122A
MATCHLINE : LP123A



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Drawing Title
LANDSCAPE PLANTING PLAN XXIII

Project No. 151010101	Drawing No. LP123
Date 09/09/2022	
Drawn By KK	
Checked By MH	

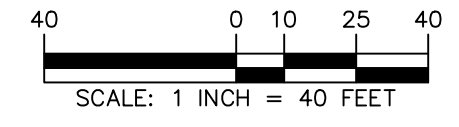
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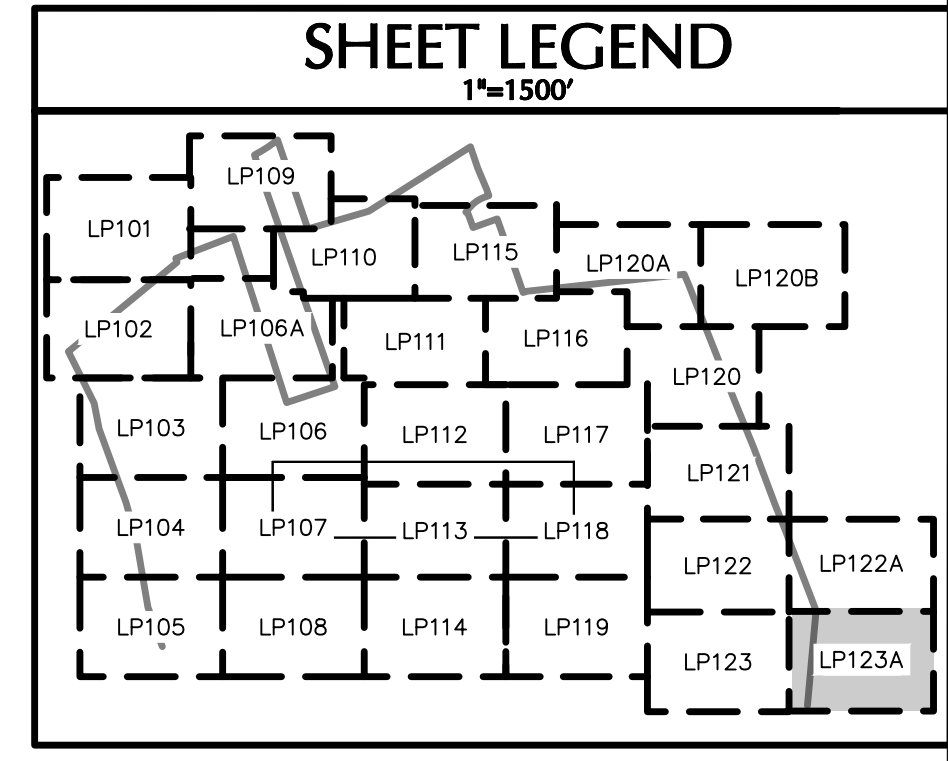
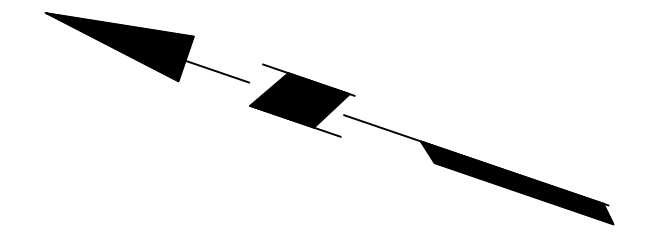
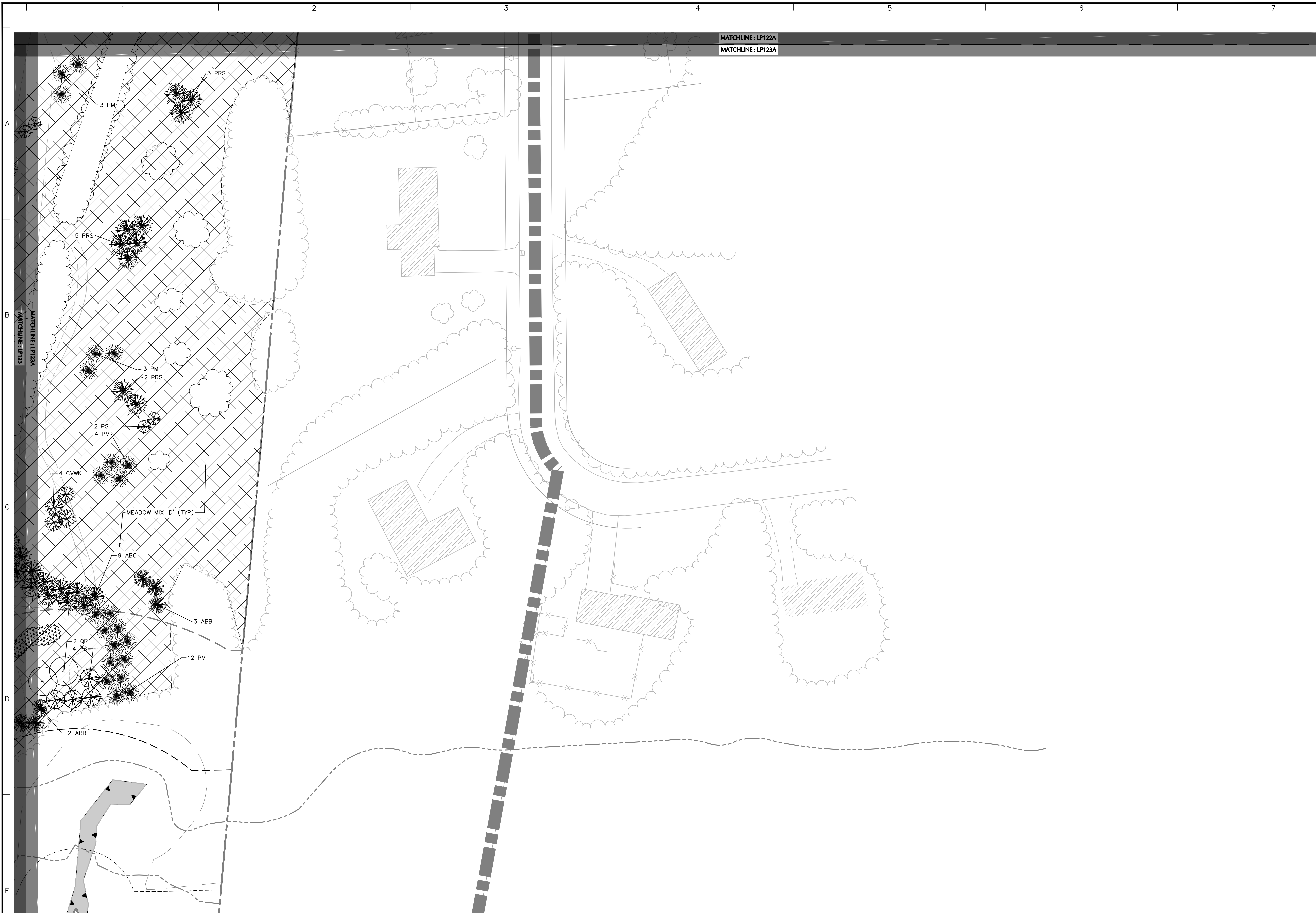
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Project No. 151010101



Date	Description	No.
Revisions		



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MAP No. 239, LOT No. 1
HUDSON
HILLSBOROUGH NEW HAMPSHIRE

Drawing Title
LANDSCAPE PLANTING PLAN XXIII A

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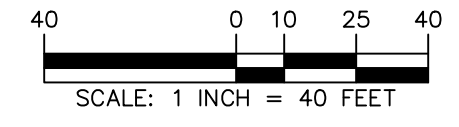
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GENERAL LANDSCAPE PLANTING NOTES

- INVOICES FOR ALL PLANTING WITHIN WETLAND AND WETLAND BUFFER SHALL BE PROVIDED AND APPROVED BY CONSERVATION COMMISSION PRIOR TO INSTALLATION.
- NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
- ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSEMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.
- NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.
- LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL BE RESPONSIBLE FOR THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
- THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIAL AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURNISH MATERIALS FOR SIZE AND CONDITION FOR PLANTING AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING COURSE OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- DELIVERY, STORAGE, AND HANDLING
 - A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY AND WHILE STORED AT SITE.
 - B. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BRING THE TREES OR SHRUBS TO A CURVE OR ANGLE AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT, DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
 - C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL, AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
 - D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
- ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
- AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE FOLDED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION.
- MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK.
- FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
- PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
- ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 - JUNE 15 OR AUGUST 15 - NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DETAILS IN SEEDING NOTES.

LANDSCAPE MAINTENANCE NOTES

- MAINTENANCE OPERATIONS BEFORE APPROVAL:**
 - A. PLANT CARE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS SATISFACTORILY INSTALLED AND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL ACCEPTANCE OF THE PROJECT.
 - B. CARE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED, WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
 - C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
- MAINTENANCE DURING CONSTRUCTION:**
 - A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED, WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISE MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL BE RESET TO PROPER GRADE AND POSITION, PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND GUYS SHALL BE TIGHTENED AND REPAIRED. DEFECTIVE WORK SHALL BE CORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES APPARENT AND WEATHER AND SEASON PERMIT.
 - B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEMAILED ACCEPTABLE BY THE LANDSCAPE ARCHITECT.
 - C. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE SPECIFIED ON THE PLANT LIST OR THAT WHICH WAS TO BE REMOVED OR RELOCATED. THEY SHALL BE FURNISHED AND PLANTED, THEY SHALL BE FURNISHED AND PLANTED. THE COST SHALL BE BORNE BY THE CONTRACTOR. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
 - D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL ACCEPTANCE.
 - E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR UNSATISFACTORY TO THE LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.
- LAWN MAINTENANCE:**
 - A. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.
 - B. WATER TO KEEP SURFACE SOIL MOIST. REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING; MOW TO 2 1/2 - 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

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PLANTING SOIL SPECIFICATIONS

- PLANTING SOIL, ALTERNATIVELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF TERMS, TOXINS, TRASH AND STONES OVER 1/2" DIA. IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO VIOUS COORS.
- PLANTING SOIL:**
 - REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS.
 - SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.
 - CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER. MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARP/AULIN UNTIL TIME OF ACTUAL USE.
 - ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.

- THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION:
 - a. PARTICLE SIZE ANALYSIS - LOAMY SAND: 60-75% SAND, 25-40% SILT, AND 5-15% CLAY.
 - b. FERTILITY ANALYSIS: pH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM
 - c. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS
 - d. TOXIC SUBSTANCE ANALYSIS
 - e. TERRA-SORB BY WEIGHT ANALYSIS RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
 - f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE
- SOIL AMENDMENT FOR PLANT MATERIAL:**
 - IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8, MOISTURE CONTENT 35-55% BY WEIGHT (100% PASSING THROUGH 1" SIEVE), SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM, MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL.

- ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT, SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD CHIPS OVER 1".

- SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.
- AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:
 - a. GROUND LESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
 - b. BRING PH LEVELS TO 6.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS
 - c. BRING PH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS
 - d. TERRA-SORB BY WEIGHT ANALYSIS RATE: 60%-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS.
 - e. MYCOR-RSOT SAVER BY "PLANT HEALTH CARE" 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.

- WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.
- BIORETENTION SOIL MIX
 - a. BIORETENTION SOIL MIX IS TO BE USED IN ALL DETENTION BASINS AND RAIN GARDENS.
 - b. MIX TO CONSIST OF 60% COARSE SAND, 40% SUBMITTED TOPSOIL/HORTICULTURAL SOIL MIX
 - c. TOPSOIL/HORTICULTURAL SOIL MIX: REFER TO SPECIFICATIONS LISTED IN SECTION ABOVE

- COARSE SAND
 - 1) PARTICLE SIZE ANALYSIS:
 - a. 3/8" INCH (9.5 MM) 100
 - b. NO 4 (4.75 MM) 95-100
 - c. NO 8 (2.36 MM) 80-100
 - d. NO 16 (1.18 MM) 50-85
 - e. NO 20 (0.75 MM) 25-60
 - f. NO 30 (.60 MM) 10-30
 - g. NO 50 (.30 MM) 2-10
 - h. NO 100 (.15 MM) 2-5
 - i. NO 200 (.075 MM) 2-5
- 2) CHEMICAL ANALYSIS:
 - a) PH - LOWER THAN 7.0
 - b) TOXIC SUBSTANCE ANALYSIS
- e. FINAL BIORETENTION MIX
 - 1) PARTICLE SIZE ANALYSIS:
 - a) SAND - 80-85%
 - b) SILT - 10-15%
 - c) CLAY - 2-5%
 - NOT MORE THAN 1% OF MATERIAL TO BE RETAINED BY A #4 SIEVE

- CHEMICAL ANALYSIS
 - a) PH - 5.5-6.5
 - b) SOLUBLE SALTS: LESS THAN 2 MMHO/CM
- CONTRACTOR TO SUBMIT TOXIC SUBSTANCE ANALYSIS AND MATERIAL DRAINAGE RATE IN ADDITION TO INFORMATION LISTED ABOVE. DRAINAGE RATE OF MATERIAL TO BE BETWEEN 8 AND 10 INCHES/HOUR.
- CLEAN SOIL FILL IN LANDSCAPE AREAS:**
 - LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5 - 7.
- SOIL PLACEMENT:**
 - A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.
 - B. SCARIFY AND/OR TILL PLANTING SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12-18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.
 - C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.
- SOIL CONDITIONING:**
 - A. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.
 - B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - C. **SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):**
 - a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER AMENDMENT.
 - b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSPUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
 - c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

MEADOW SEED NOTES

- MEADOW SEED MIX A - ERNST SEED MIX ERNWX-183 (NATIVE DETENTION AREA MIX)**
- | | |
|---|------------------------------------|
| 32% PANICUM CLANDESTINUM, 'TOIGA' | DEERTONGUE, 'TOIGA' |
| 20% CAREX VULPINOIDEA | FOX SEDGE |
| 20% ELYMUS VIRGINICUS | WIRGINIA WILDREYE |
| 20% PANICUM VIRGATUM, 'SHAWNEE' | SWITCHGRASS, 'SHAWNEE' |
| 4% AGROSTIS PERENNANS, ALBANY PINE BUSH | AUTUMN BENTGRASS, ALBANY PINE BUSH |
| 2% JUNCUS TENUIS | PATH RUSS |
| 1% JUNCUS EFFUSUS | SOFT RUSS |
| 1% PANICUM RIGIDULUM | REDTOP PANICGRASS |

- NOTES:
1. SEED AT A RATE OF 20 LBS/ACRE OF 100% PURE LIVE SEED.
- MEADOW SEED MIX B - ERNST SEED MIX (NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS)**
- | | |
|-----------------------------|------------------------|
| 31% LOLIUM MULTIFLORUM | ANNUAL RYEGRASS |
| 28% SCHIZACHYRIUM SCOPARIUM | LITTLE BLUESTEM |
| 15% ELYMUS CANADENSIS | CANADA WILDREYE |
| 5% ELYMUS VIRGINICUS | WIRGINIA WILDREYE |
| 5% AGROSTIS PERENNANS | AUTUMN BENTGRASS |
| 5% MONARDA FISTULOSA | TICKLERGRASS |
| 5% TRIDENS FLAVUS | PURPLETOP |
| 2% MONARDA FISTULOSA | WILD BERGAMOT |
| 2% PENSTEMON DIGITALIS | TALL WHITE BEARDTONGUE |
| 2% RUDBECKIA HIRTA | BLACKEYED SUSAN |

- NOTES:
SEED AT A RATE OF 60 LBS/ACRE OF 100% PURE LIVE SEED.

- MEADOW SEED MIX C - NEW ENGLAND WETLAND PLANTS, INC. (NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES)**
- | | |
|----------------------|-------------------------|
| RIVERBANK WILD RYE | ELYMUS RIPARIUS |
| CREeping RED FESCUE | FESTUCA RUBRA |
| LITTLE BLUESTEM | SCHIZACHYRIUM SCOPARIUM |
| BIG BLUESTEM | ANDROPOGON GERARDI |
| PANICUM VIRGATUM | WIRGINIA WILDREYE |
| UPLAND BENTGRASS | AGROSTIS PERENNANS |
| NOODING BUR MARIGOLD | BIDENS CERNUA |
| JOE PYLE WEED | EUPATORIUM FISTULOSUM |
| NEW ENGLAND ASTER | ASTER NOVAE-ANGIAE |
| BONSET | EUPATORIUM PERFOOLIATUM |
| BLUE VERVAIN | VERBENA STATIA |
| SOFT RUSH | JUNCUS EFFUSUS |
| WOOD GRASS | SCIRPUS PTERIUS |

- NOTES:
SEED AT A RATE OF 35 LBS/ACRE OF 100% PURE LIVE SEED.

- MEADOW SEED MIX D - ERNST SEED MIX (NATIVE UPLAND WDLIFE FORAGE & COVER MEADOW MIX)**
- | | |
|--|------------------------------|
| 34.9% ANDROPOGON GERARDI, 'NAGARA' | BIG BLUESTEM, 'NAGARA' |
| 32.0% PANICUM VIRGATUM, 'CAVE-IN-ROCK' | SWITCHGRASS, 'CAVE-IN-ROCK' |
| 26.0% ELYMUS VIRGINICUS, 'MADISON' | WIRGINIA WILDREYE, 'MADISON' |
| 5.1% RUDBECKIA HIRTA | BLACKEYED SUSAN |
| 2.0% DESMODIUM CANADENSE | SHOWY TICKTREFOL |
| 0.1% ASCLEPIAS SYRACA | COMMON MILKWEED |
| 0.1% MONARDA FISTULOSA | WILD BERGAMOT |

- NOTES:
SEED AT A RATE OF 20 LB/ACRE OF 100% PURE LIVE SEED

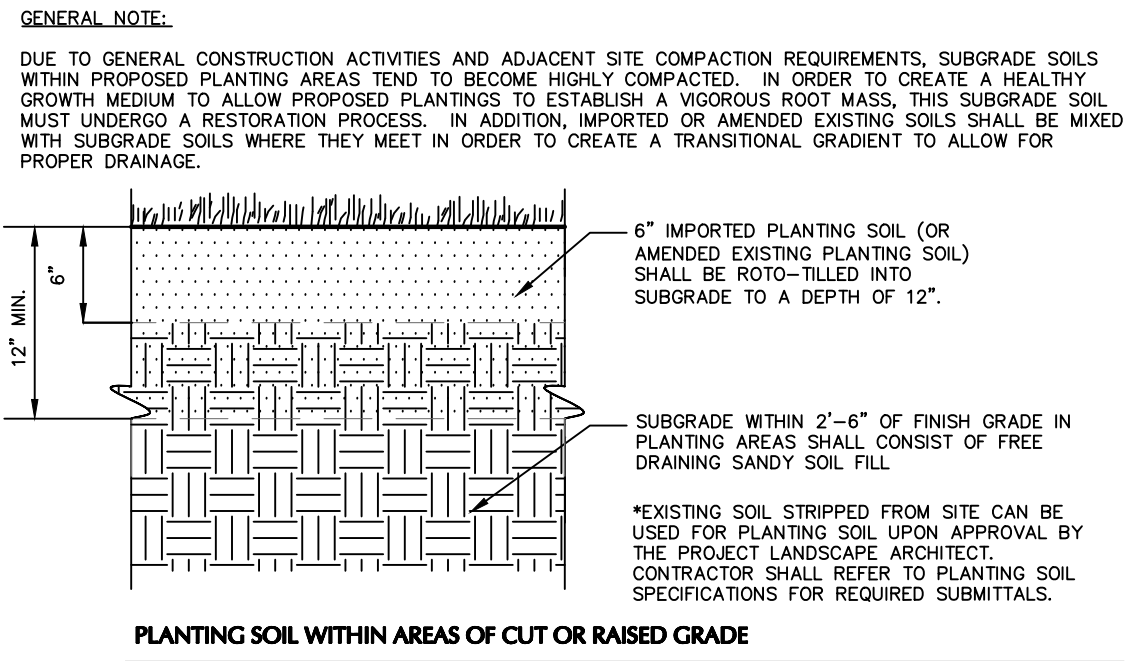
MEADOW SEED MIX NOTES

- GENERAL SEEDING NOTES:
- SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
 - PROTECT ALL EXISTING TREES AND SHRUBS TO REMAIN PER TREE PROTECTION DETAILS. NO DRILL SEEDING OR HERBICIDE USE WITHIN DRIFLINE OF EXISTING TREES TO REMAIN.
 - ELIMINATE UNWANTED SHRUB AND BRUSH AND MOW ALL LAWN TO GRADE IN AREAS TO BE SEEDDED PRIOR TO INSTALLATION.
 - ELIMINATE REMAINING VEGETATION PRIOR TO SEEDING USING A STATE-APPROVED, AQUATIC FRIENDLY HERBICIDE PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO ENSURE HERBICIDE IS INDICATED FOR USE AROUND WATER BODIES. HERBICIDE TYPE AND APPLICATION METHOD IS TO BE REVIEWED AND APPROVED BY CONSERVATION COMMISSION PRIOR TO APPLICATION.
 - ALL AREAS NOT DISTURBED DUE TO SITE GRADING SHALL NOT BE TILLED. A TRUAX-TYPE DRILL SEEDER SHALL BE USED IN THOSE LOCATIONS. IN ALL REMAINING AREAS TO BE SEEDDED, CONTRACTOR IS TO SUBMIT SEEDING METHODOLOGY TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL BY CONSERVATION COMMISSION PRIOR TO SEEDING.
 - THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW PROPER GERMINATION.

- WEED CONTROL / MAINTENANCE**
- DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED.
 - AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH.
 - MOW IN DETENTION BASIN AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURANCE WILL NOT OCCUR. MAINTENANCE FOR DETENTION BASIN AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 - AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN DETENTION BASIN, WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF MEADOW MIX.
 - IN THE EVENT THAT INVASIVE SPECIES ARE PRESENT AFTER THE ESTABLISHMENT PERIOD, MEADOW AREAS ARE TO BE TRIMMED TO A HEIGHT OF 6". ANY TRIMMING SHOULD CEASE BY MID-SEPTEMBER.

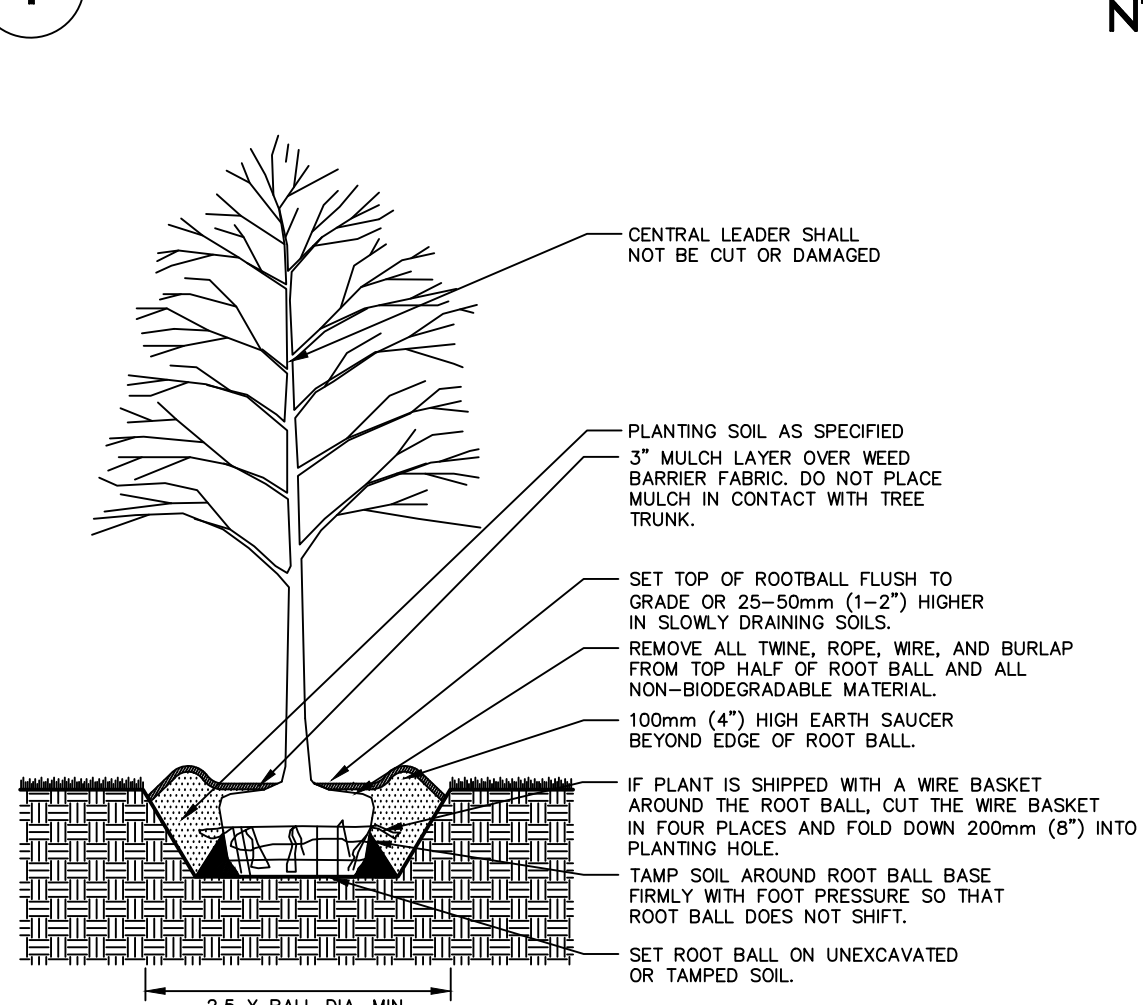
LAWN SEED MIX:

- LAWN SEED MIX:** LESCO GRASS SEED - ALL PRO TRANSITION MIX (3 TURF-TYPE TALL-FESCUE GRASSES)
- NOTES:
 - A) SEED RATE:
 - 1) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT
 - 2) RENOVATION: 20-50% EXISTING COVER: 5-7 LBS/1000 SQ FT
 - 50-75% EXISTING COVER: 4-6 LBS/1000 SQ FT
 - B) GENERAL SEED NOTES:
 - A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECT REVIEW.
 - B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
 - C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
 - D) IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL SEEDER WHERE APPLICABLE.
 - E) THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW FOR PROPER GERMINATION.

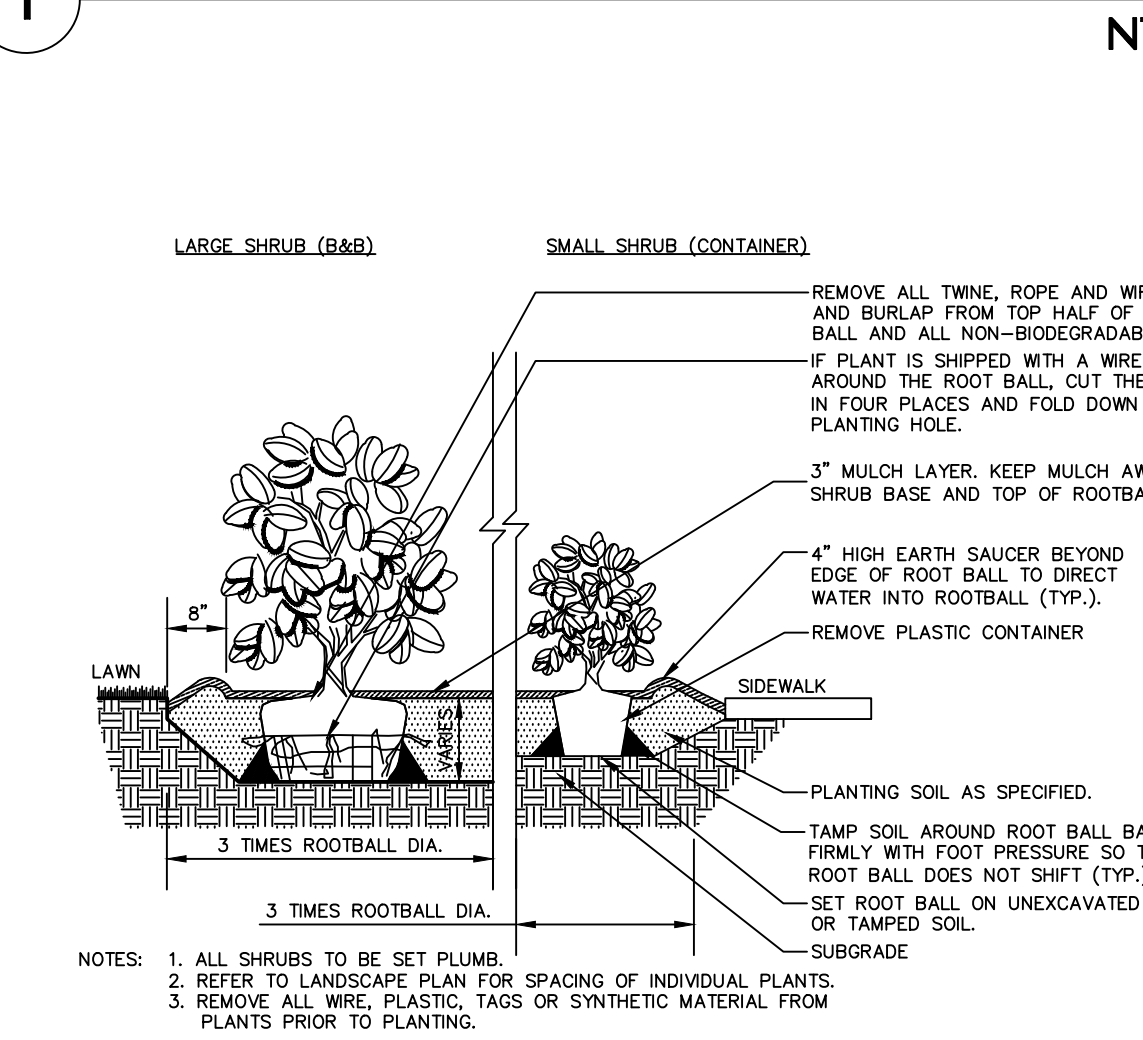


- NOTES:
- CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE CONTRACTOR'S EXPENSE.
 - RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2"-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS.
 - IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCESS OF THE APPLICABLE STATE ENVIRONMENTAL STANDARDS AND MEET THE ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF ANY FILL TO THE SITE.
 - CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.)
 - NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

1 PLANTING SOIL



1 TREE PLANTING



2 SHRUB AND ORNAMENTAL GRASS PLANTING

- NOTES:
- ALL SHRUBS TO BE SET PLUMB
 - REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS.
 - REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

NTS

NTS

Date	Description	No.
03/31/21	AOT F&G COMMENTS	5
11/30/20	CON. COMM. / PLANNING BOARD COMMENT RESPONSE	4
09/14/20	AOT COMMENT RESPONSE	3

Revisions

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HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
HUDSON

HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

LANDSCAPE NOTES AND DETAILS I

Project No.	Drawing No.
151010101	
Date	
09/09/2022	LP501
Drawn By	
JA	
Checked By	
MH	

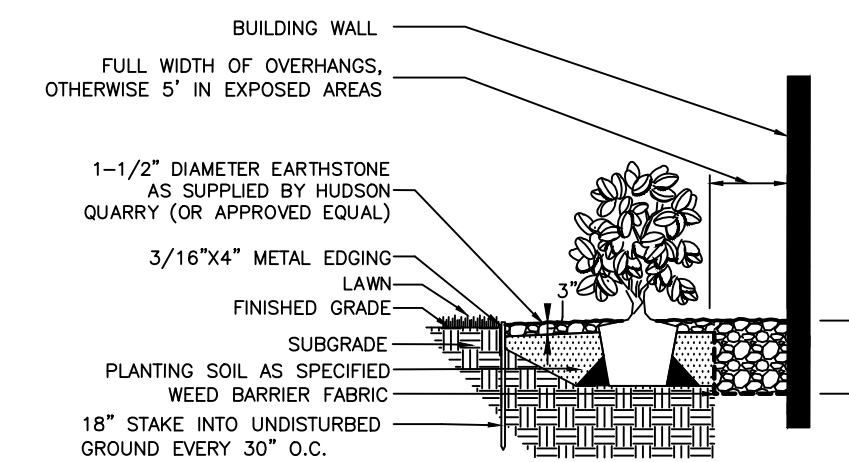
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Project No. 151010101

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DECORATIVE STONE MULCH NOTES

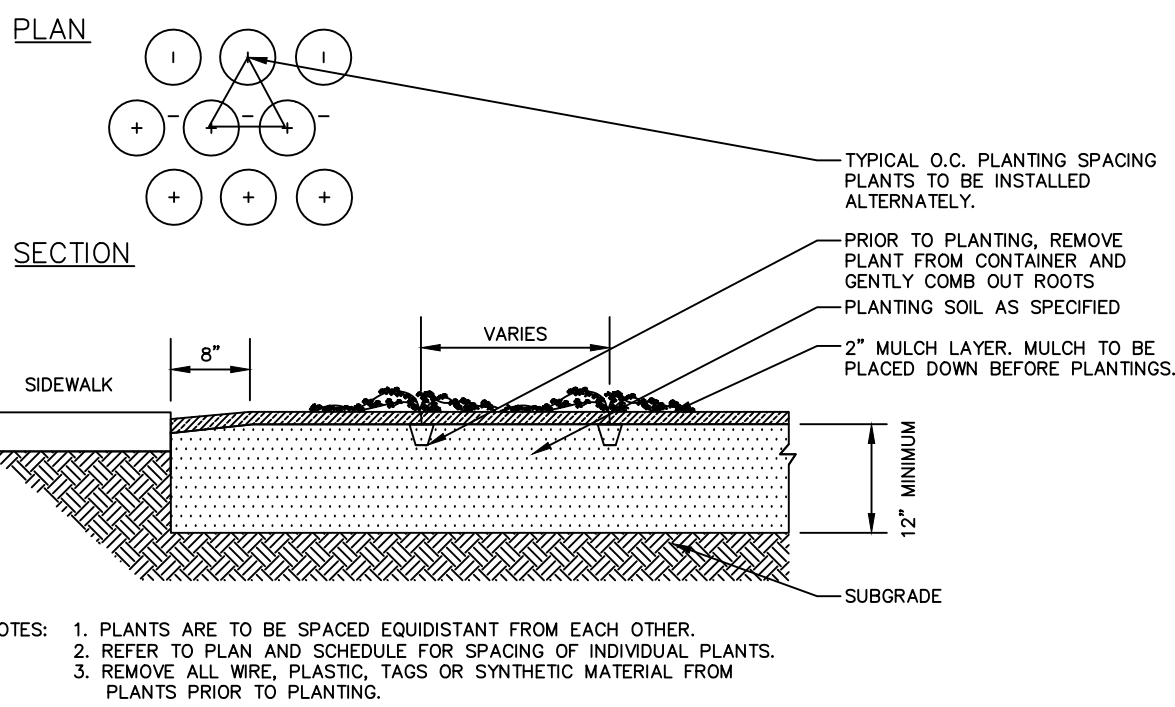
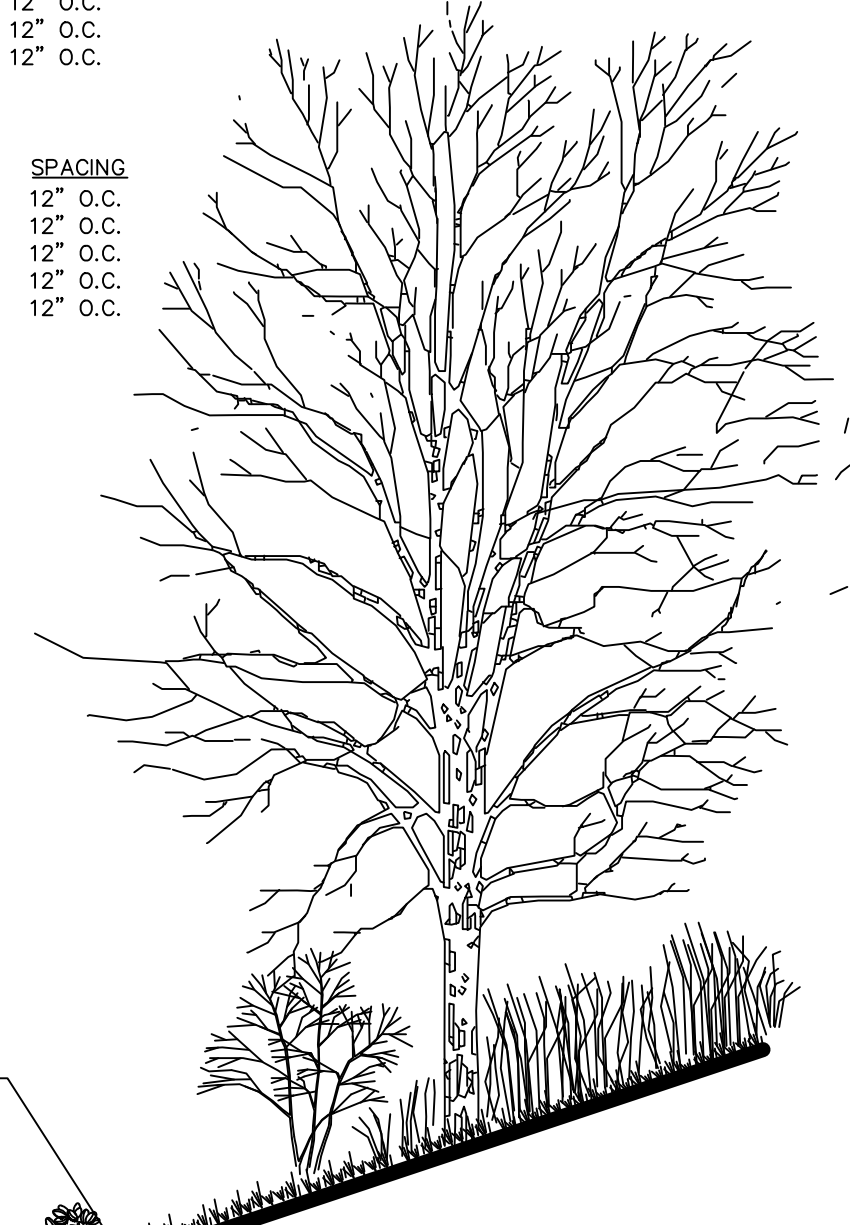
- LANDSCAPED AREAS BETWEEN THE BUILDING AND THE PARKING LOT CURB SHALL BE MULCHED WITH 2" DECORATIVE RIVERSTONE.
- DECORATIVE STONE MULCH DEPTH AT PLANTINGS SHALL BE 3" DEPTH WITH WEED BLOCK FABRIC BENEATH.
- REFER TO PLANS FOR EXACT LOCATIONS.



- NOTES: 1. LANDSCAPE STEEL EDGE IS REQUIRED BETWEEN RIVERSTONE AND LAWN.
 2. DO NOT INSTALL STEEL EDGE BETWEEN PLANTING AREA AND CONCRETE.
 3. RIVERSTONE TO BE INSTALLED ON BUS STOP PLANTING ISLAND, WHERE PLANTINGS OR LAWN MEET BUILDING WALLS, AND UNDER BUILDING OVERHANGS WHERE SHOWN ON THE LANDSCAPE PLANS.

PLANT LIST: WET POND

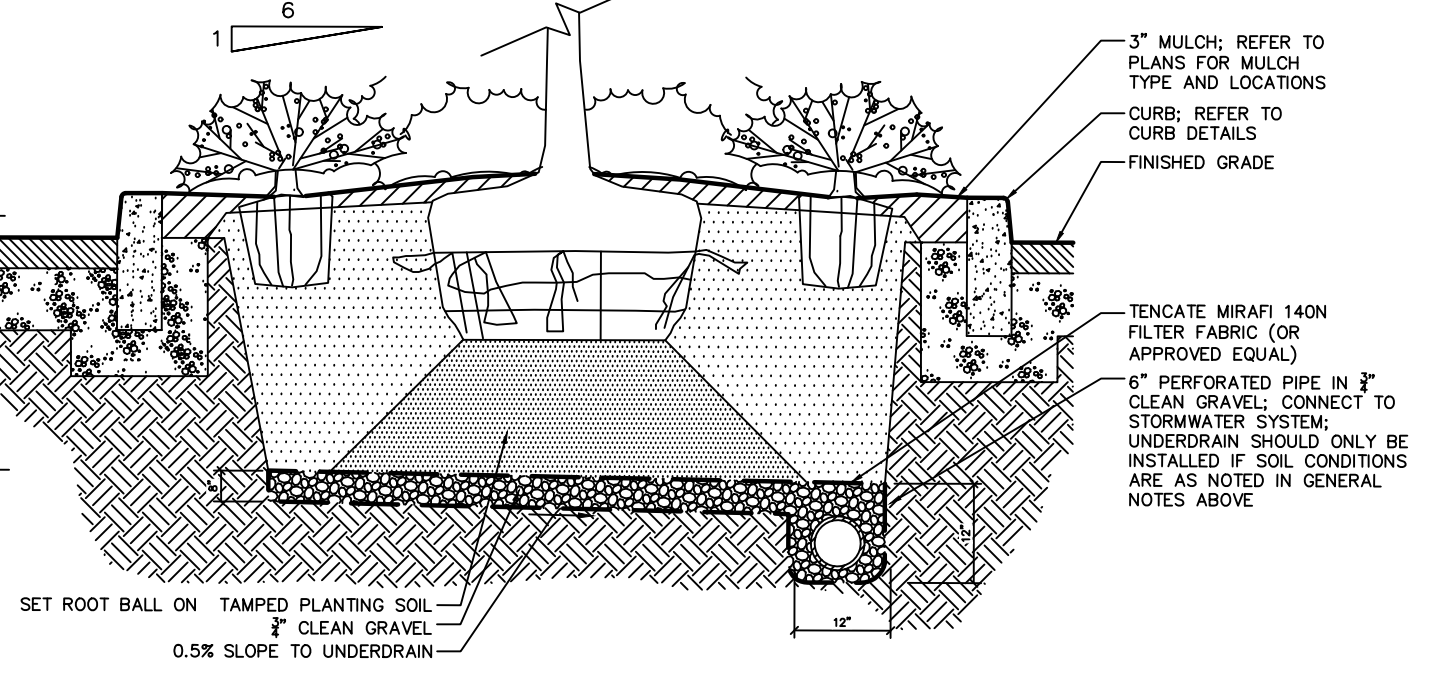
ZONE	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SPACING
ZONE 1: 6'-1' PERMANENT WATER (5,905 SF)	758	ELODEA CANADENSIS	WATERWEED	TUBERS	18" O.C.
	758	SCIRPUS ACUTUS	HARDSTEM BULLRUSH	2" PLUG	18" O.C.
	758	POTAMOGETON PECTINATUS	SAGO POND PLANT	TUBERS	18" O.C.
	758	VALLISNERIA AMERICANA	WILD CELERY	TUBERS	18" O.C.
	TOTAL	3,032			
ZONE 2: 12"-6" WATER (640 SF)	185	JUNCUS EFFUSUS	SOFT RUSH	2" PLUG	12" O.C.
	185	PONTEREDERIA CORDATA	PICKERELWEED	2" PLUG	12" O.C.
	185	SCIRPUS VALIDUS	SOFT-STEM BULRUSH	2" PLUG	12" O.C.
	185	SPARGANIUM EURYCARPUM	GIANT BUR-REED	2" PLUG	12" O.C.
	TOTAL	740			
ZONE 3: 6"-0" WATER (640 SF)	185	IRIS VERSICOLOR	BLUE FLAG IRIS	2" PLUG	12" O.C.
	185	ANDROPOGON VIRGINICUS	BROOMSEDGE	2" PLUG	12" O.C.
	185	PANICUM VIRGATUM	SWITCHGRASS	2" PLUG	12" O.C.
	185	SCIRPUS VALIDUS	SOFT-STEM BULRUSH	2" PLUG	12" O.C.
	185	ACORUS CALAMUS	SWEET FLAG	2" PLUG	12" O.C.
	TOTAL	925			



- NOTES: 1. PLANTS ARE TO BE SPACED EQUIDISTANT FROM EACH OTHER.
 2. REFER TO PLAN AND SCHEDULE FOR SPACING OF INDIVIDUAL PLANTS.
 3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

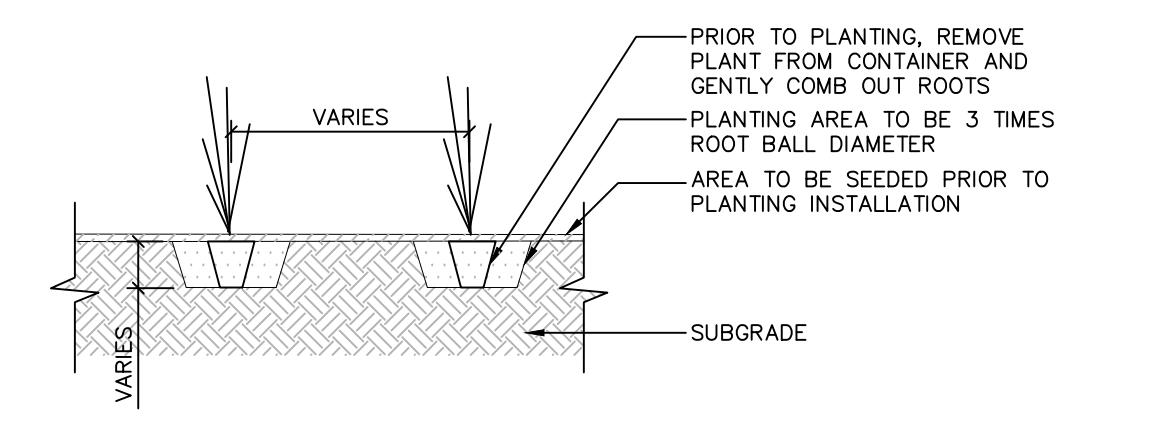
3 GROUNDCOVER/ PERENNIAL PLANTING NTS

- GENERAL NOTE: 1. PRIOR TO INSTALLATION OF CURBS, PAVEMENT, AND PLACEMENT OF PLANTING SOILS, CONTRACTOR SHALL EVALUATE DRAINAGE OF SUBSOILS WITHIN PARKING LOT PLANTING ISLANDS AND ADD UNDERDRAINS CONNECTED TO THE STORMWATER SYSTEM AS REQUIRED PER BELOW DETAIL.
 2. DUE TO GENERAL CONSTRUCTION ACTIVITIES AND ADJACENT SITE COMPACTION REQUIREMENTS, SUBGRADE SOILS WITHIN ISLANDS TEND TO BECOME HIGHLY COMPACTED AND CAN PREVENT DRAINAGE. THIS CONDITION CREATES A SATURATED SOIL THAT CAN CAUSE ROOT ROT THAT CAN BE DETRIMENTAL TO TREE HEALTH. IF SUBGRADE SOILS ARE NOT VISIBLY DRAINING, CONTRACTOR SHALL PERFORM REPRESENTATIVE PERCOLATION TESTS (MINIMUM ONE PER TEN ISLANDS) TO VERIFY DRAINAGE RATES IN INCHES PER HOUR. PERCOLATION TESTS SHOULD BE IN ACCORDANCE WITH THE MOST CURRENT LOCAL APPLICABLE STORMWATER MANUAL AND DEEP REQUIREMENTS. IN ISLANDS WHERE SUBSOILS ARE DRAINING LESS THAN 1" PER HOUR, CONTRACTOR IS REQUIRED TO INSTALL UNDERDRAINS PER BELOW DETAIL.



- NOTES: 1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SUBGRADE DRAINAGE OR PERCOLATION CHARACTERISTICS, WHETHER THE SUBGRADE SOILS ARE EXISTING TO REMAIN OR IMPORTED AND PLACED. CONTRACTOR TO ENSURE POSITIVE VERTICAL DRAINAGE THROUGHOUT PLANTED AREAS. DISCREPANCIES SHALL BE ADDRESSED WITH THE PROJECT LANDSCAPE ARCHITECT PRIOR TO COMPLETION OF STORMWATER SYSTEM, PAVEMENT INSTALLATION, AND PLACEMENT OF PLANTING SOILS.
 2. ISLAND AREAS TO BE FREE OF DEBRIS AND RUBBLE PRIOR TO PLANTING OPERATION.
 3. MOUND PARKING ISLAND AS SHOWN.
 4. PLANTING SOIL IS TO BE INSTALLED THROUGHOUT EXTENT OF PARKING LOT ISLANDS INTERIOR TO THE PARKING LOT AT DEPTH SHOWN.

4 PARKING LOT ISLAND PLANTING NTS



- NOTES: 1. RESTORATION PLANTING DETAIL TO BE USED FOR ALL RESTORATION SIZED TREE AND SHRUBS. FULL SIZE TREES WITHIN THE RESTORATION PLANTING AREA ARE TO BE INSTALLED PER TREE PLANTING DETAIL.
 2. PLANTS ARE TO BE SPACED EQUIDISTANT FROM EACH OTHER.
 3. REFER TO PLAN AND SCHEDULE FOR SPACING OF INDIVIDUAL PLANTS.
 4. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.
 5. ALL PLANTINGS TO SPACED IN A RANDOM PATTERN TO SIMULATE NATURAL GROWTH PATTERNS. PLANT SPECIES TO VARY THROUGHOUT PLANT CLUSTERS.

6 RESTORATION AREA PLANTING NTS

5 DECORATIVE RIVERSTONE NTS

WET POND NOTES

CONSTRUCTION PROCESS:

- PREPARE FINAL PONDSCAPING AND GRADING PLANS OF THE STORMWATER WETLAND. AT THIS TIME ORDER WETLAND PLANT STOCK FROM AQUATIC NURSERIES.
- ONCE THE STORMWATER WETLAND COLUMN HAS BEEN EXCAVATED, THE WETLAND SHOULD BE GRADED TO CREATE THE MAJOR INTERNAL FEATURES (POOL, AQUATIC BENCH, DEEP-WATER CHANNELS, ETC).
- TOP SOIL AND/OR WETLAND MULCH IS ADDED TO THE STORMWATER WETLAND EXCAVATION. SINCE DEEP SUBSOILS OFTEN LACK THE NUTRIENTS AND ORGANIC MATTER TO SUPPORT VIGOROUS PLANT GROWTH, THE ADDITION OF MULCH OR TOPSOIL IS IMPORTANT. IF IT IS AVAILABLE, WETLAND MULCH IS PREFERABLE TO TOPSOIL. AFTER THE MULCH OR TOPSOIL HAS BEEN ADDED, THE STORMWATER WETLAND NEEDS TO BE GRADED TO ITS FINAL ELEVATIONS. ALL WETLAND FEATURES ABOVE THE NORMAL POOL SHOULD BE STABILIZED TEMPORARILY. SEE SOIL EROSION AND SEDIMENT CONTROL PLAN FOR SEED SPECIFICATION.
- AFTER GRADING TO FINAL ELEVATIONS, THE POND DRAIN SHOULD BE CLOSED AND THE POOL ALLOWED TO FILL. USUALLY NOTHING SHOULD BE DONE TO THE STORMWATER WETLAND FOR SIX TO NINE MONTHS OR UNTIL THE NEXT PLANTING SEASON. A GOOD DESIGN RECOMMENDATION IS TO EVALUATE THE WETLAND ELEVATION DURING A STANDING PERIOD OF APPROXIMATELY SIX MONTHS. DURING THIS TIME THE STORMWATER WETLAND CAN EXPERIENCE STORM FLOWS AND INUNDATION, SO THAT IT CAN BE DETERMINED WHERE THE PONDSCAPING ZONES ARE LOCATED AND WHETHER OR NOT THE FINAL GRADE AND MICROTOPOGRAPHY WILL PERSIST OVERTIME.
- BEFORE PLANTING THE STORMWATER WETLAND DEPTHS SHOULD BE MEASURED TO THE NEAREST INCH TO CONFIRM PLANTING DEPTH. THE PONDSCAPE PLAN MAY BE MODIFIED AT THIS TIME TO REFLECT ALTERED DEPTHS OR AVAILABILITY OF PLANT STOCK. ZONES SHOULD BE STAKED OUT AT THE APPROPRIATE LEVELS PRIOR TO PLANTING UNDER THE SUPERVISION OF LANDSCAPE ARCHITECT OR WETLAND SCIENTIST.
- EROSION CONTROLS SHOULD BE STRICTLY APPLIED DURING THE STANDING AND PLANTING PERIODS. ALL AREAS ABOVE THE NORMAL POOL ELEVATION SHOULD BE VEGETATIVELY STABILIZED DURING THE STANDING PERIOD, USUALLY WITH HYDROSEEDING.
- THE STORMWATER WETLAND SHOULD BE DE-WATERED AT LEAST THREE DAYS BEFORE PLANTING, AS A DRY WETLAND IS EASIER TO PLANT THAN A WET ONE.
- DURING THE INITIAL PLANTING PRECAUTIONS SHOULD BE UNDERTAKEN TO PREVENT AND PROHIBIT ANIMALS FROM GRAZING UNTIL PLANT COMMUNITIES ARE WELL ESTABLISHED. SUCH PRECAUTIONS COULD BE DEER FENCING, MUSKRAT TRAPPING, PLANTING AFTER SEASONAL BIRD MIGRATIONS OR ATTRACTING BIRDS OF PREY AND BATS TO CONTROL NUTRIA POPULATIONS.

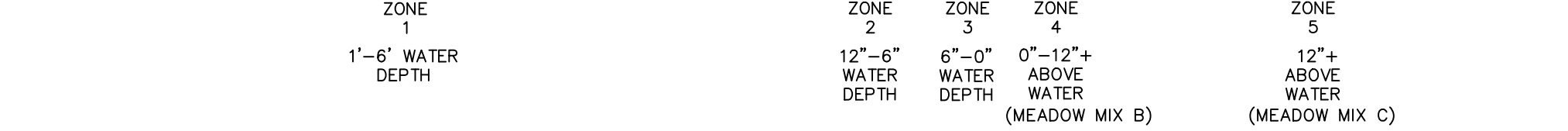
OPERATIONS AND MAINTENANCE NOTES:

- CONSTRUCTED STORMWATER WETLANDS REQUIRE CONSIDERABLE ROUTINE MAINTENANCE, BUT DO NOT REQUIRE LARGE, INFREQUENT SEDIMENT REMOVAL UNLIKE CONVENTIONAL POND SYSTEMS THAT REQUIRE RELATIVELY MINOR ROUTINE MAINTENANCE AND EXPENSIVE SEDIMENT REMOVAL AT INFREQUENT INTERVALS.
- CAREFUL OBSERVATION OF THE SYSTEM OVER TIME IS REQUIRED IN THE FIRST THREE YEARS AFTER CONSTRUCTION. WITHIN THE FIRST GROWING SEASON OR UNTIL IT IS DETERMINED THAT THE SYSTEM IS ESTABLISHED, FREQUENT INSPECTIONS WILL BE REQUIRED, POSSIBLY BIWEEKLY OR MONTHLY BASIS. FOLLOWING THIS, TWICE A YEAR INSPECTIONS ARE NEEDED DURING BOTH THE GROWING AND NON-GROWING SEASON. DATA GATHERED DURING THESE INSPECTIONS SHOULD BE RECORDED, MAPPED AND ASSESSED. THE FOLLOWING OBSERVATIONS SHOULD BE MADE DURING THE INSPECTIONS:
 - TYPES AND DISTRIBUTION OF DOMINANT WETLAND PLANTS IN THE MARSH.
 - THE PRESENCE AND DISTRIBUTION OF PLANTED WETLAND SPECIES; THE PRESENCE AND DISTRIBUTION OF VOLUNTEER WETLAND SPECIES; SIGNS THAT VOLUNTEER SPECIES ARE REPLACING THE PLANTED WETLAND SPECIES.
 - PERCENTAGE OF UNVEGETATED STANDING WATER (EXCLUDING THE DEEP WATER CELLS WHICH ARE NOT SUITABLE FOR EMERGENT PLANT GROWTH).
 - THE MAXIMUM ELEVATION AND THE VEGETATIVE CONDITION IN THIS ZONE, IF THE DESIGN ELEVATION OF THE NORMAL POOL IS BEING MAINTAINED FOR WETLANDS WITH EXTENDED ZONES.
 - STABILITY OF THE ORIGINAL DEPTH ZONES AND THE MICROTOPOGRAPHIC FEATURES.
 - ACCUMULATION OF SEDIMENT IN THE FOREBAY AND MICROPOOL.
 - SURVIVAL RATE OF PLANTS IN THE WETLAND BUFFER.
 - SHALLOW MARSH AND EXTENDED DETENTION WETLAND DESIGNS INCLUDE FOREBAYS TO TRAP SEDIMENT BEFORE REACHING THE WETLAND. THEREFORE BAYS SHOULD BE CLEANED OUT EVERY YEAR.
 - CLEAN OUTS AND DISCHARGE LOCATIONS SHOULD BE INSPECTED MORE FREQUENTLY. INSPECTIONS FOR THEM COULD COINCIDE WITH ABOVE NORMAL OR EXTENDED PERIOD RAINFALL, RATHER THAN JUST INCREASING THE INSPECTION INTERVALS. THUS, IF THERE ARE PERIODS OF DROUGHT OR SMALL INFREQUENT EVENTS IT WOULD NOT BE NECESSARY FOR AN INSPECTION.
- THE OWNER OF THE PROPERTY SHALL BE THE RESPONSIBLE AGENT FOR THE STORMWATER MANAGEMENT FACILITIES ON SAID PROPERTY.

COIR LOG NOTES

- PLACE COIR LOG ALONG THE TOE OF THE BANK (SEE SECTION ELEVATION).
- SUBMERGE THE COIR LOG AT A CONSTANT DEPTH OF 1/2 TO 2/3 OF THE COIR LOG'S HEIGHT. THE PROPER SUBMERSION OF THE COIR LOG IS IMPORTANT FOR THE PLUGGED PLANTS SURVIVAL.
- TIE THE ENDS OF THE ADJACENT COIR LOGS TOGETHER WITH THE RECOMMENDED COIR TWINE OR APPROVED EQUAL. MAKE A NUMBER OF PASSES WITH THE TWINE IN THE END NETTING OF THE ADJACENT COIR LOGS-EFFECTIVELY LACING THE COIR LOGS TOGETHER.
- PUSH WOOD STAKES (3" X 3" X 36" OR 2" X 2" X 36", DEPENDING ON THE FLOW VELOCITY) THROUGH TWO LOOPS OF THE COIR LOG'S NETTING ON THE WATERSIDE OF THE COIR LOG (SEE SECTION ELEVATION).
- DRIVE THE STAKES IN AT THE RECOMMENDED SPACING OF 40" O.C., POUND THE STAKES DOWN SO THE TOP OF THE STAKE IS LEVEL WITH THE LOOP OF THE COIR LOG.
- ONCE THE COIR LOG EVERY 120" BY DRIVING TWO STAKES HELD TOGETHER BY TWINE TO PREVENT MOVEMENT OF COIR LOG (SEE PLAN AND ONCH DETAIL).
- WHERE A COIR LOG DOES NOT ABUT ANOTHER COIR LOG, BEND THE END IN TOWARDS THE SHORE AND DIG IT INTO THE BANK. THIS KEEPS THE WATER FROM GETTING BEHIND THE COIR LOG, PREVENTING PULL OUT OF THE LOGS. (BE CERTAIN TO TRENCH IN BOTH ENDS OF EITHER A SINGLE OR A CONTINUOUS LINE OF COIR LOGS).
- BEGIN PLANTING AFTER THE COIR LOGS HAVE BEEN IN WATER FOR A SHORT PERIOD OF TIME.
- PLUG PLANTS INTO THE COIR LOG BY PULLING THE COIR LOG'S FIBERS APART WITH FINGERS AND GENTLY PUSHING THE PLUG DEEP INTO THE COIR LOG.

7 WET POND PLANTING SECTION NTS



Date	Description	No.
03/31/21	AOT F&G COMMENTS	5
11/30/20	CON. COMM. / PLANNING BOARD COMMENT RESPONSE	4
09/14/20	AOT COMMENT RESPONSE	3

Revisions



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Project

HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
 HUDSON

HILLSBOROUGH NEW HAMPSHIRE

LANDSCAPE NOTES AND DETAILS II

Project No.	151010101	Drawing No.	LP502
Date	09/09/2022	Drawn By	
Checked By	MH		

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APPROVAL BLOCK

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

PLANNING BOARD CHAIRMAN: _____ SIGNATURE DATE: _____
 PLANNING BOARD SECRETARY: _____ SIGNATURE DATE: _____

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

DEVELOPMENT & SOUTHERN BERM PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
AR	38	ACER RUBRUM	RED MAPLE	2 1/2-3" CAL.	B+B	-
ASB	86	ACER SACCHARUM BONFIRE	BONFIRE SUGAR MAPLE	2 1/2-3" CAL.	B+B	-
GB	37	GINKGO BILOBA	MAIDENHAIR TREE GINKO	2 1/2-3" CAL.	B+B	-
GTSB	41	GLEDITSIA TRIACANTHOS INERMIS 'SUNBURST'	SUNBURST HONEY LOCUST	2 1/2-3" CAL.	B+B	-
LST	27	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	2 1/2-3" CAL.	B+B	-
LT	45	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2 1/2-3" CAL.	B+B	-
PLO	79	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2-3" CAL.	B+B	-
QR	82	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	B+B	-
TCG	43	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	2 1/2-3" CAL.	B+B	-
ORNAMENTAL TREE(S)						
AL	16	AMELANCHIER LAEVIS	ALLEGHANY SERVICEBERRY	8-10'	B+B	-
BN	66	BETULA NIGRA	MULTI STEM RIVER BIRCH	12-14'	B+B	-
CC	12	CERCIS CANADENSIS	EASTERN REDBUD	2-2 1/2" CAL.	B+B	-
CVWK	14	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2-2 1/2" CAL.	B+B	-
EVERGREEN TREE(S)						
ABB	32	ABIES BALSAMEA	BALSAM FIR	6-7'	B&B	-
ABC	165	ABIES CONCOLOR	WHITE FIR	6-7'	B+B	-
JV	117	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8-10'	B+B	-
PGL	256	PICEA GLAUCA	WHITE SPRUCE	6-7'	B+B	-
PM	163	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6-7'	B+B	-
PRS	138	PINUS RESINOSA	RED PINE	8-10'	BB	-
PS	238	PINUS STROBUS	EASTERN WHITE PINE	6-7'	B+B	-
EVERGREEN SHRUB(S)						
JHBH	237	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR CREEPING JUNIPER	15-18" SPRD.	#3 CAN	spaced @ 24" o.c.
MP	338	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	30-36"	B+B	-
DECIDUOUS SHRUB(S)						
ARM	338	ARONIA MELANOCARPA	BLACK CHOKEBERRY	2-3'	B+B	-
CAH	466	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	SWEET PEPPERBUSH	18-24"	CONTAINER	-
CS	350	CORNUS SERICEA (FORMERLY STOLONIFERA)	RED OSIER DOGWOOD	2-3'	B+B	-
CSF	268	CORNUS SERICEA 'FLAMIRAMEA'	YELLOW TWIG DOGWOOD	2-3'	B+B	-
FG	431	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	18-24"	#3 CAN	-
HVCW	248	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	3-4'	B+B	-
IVJD	108	ILEX VERTICILLATA 'JIM DANDY'	MALE POLLINATOR WINTERBERRY HOLLY	3 GAL.	CONTAINER	-
IVRS	114	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY HOLLY	3 GAL.	CONTAINER	-
IWR	82	ILEX VERTICILLATA 'WINTER RED'	WINTER RED WINTERBERRY HOLLY	30-36"	#5 CAN	-
RAG	287	RHUS AROMATICA 'GRO LOW'	GRO LOW FRAGRANT SUMAC	3 GAL.	CONTAINER	-
VD	348	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3-4'	B+B	-
GROUND COVER						
AU	319	ARCTOSTAPHYLOS UVA-URSII	BEARBERRY	12-15"	#2 CAN	spaced @ 18" o.c.
BPA	247	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	2 GAL.	CONTAINER	spaced @ 24" o.c.
ORNAMENTAL GRASS(ES)						
DCS	1041	DESCHAMPSIA CESPITOSA 'SCHOTTLAND'	SCOTTISH TUFTED HAIR GRASS	QUART	CONTAINER	spaced @ 24" o.c.
PVMH	279	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	2 GAL.	CONTAINER	-
PVS	2204	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	2 GAL.	CONTAINER	-
SSCO	167	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	2 GAL.	CONTAINER	-

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

50' WETLAND BUFFER PLANT SCHEDULE

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)					
203	NYSSA SYVATICA	RED MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	QUERCUS BICOLOR	SUGAR MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
UNDERSTORY TREE(S)					
203	BETULA ALLEGHANIENSIS	YELLOW BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	BETULA POPULIFOLIA	GRAY BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
EVERGREEN TREE(S)					
296	ABIES BALSAMEA	BALSAM FIR	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
296	PINUS RESINOSA	RED PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
296	PINUS STROBUS	EASTERN WHITE PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
DECIDUOUS SHRUB(S)					
203	ALNUS INCANA	SPECKLED ALDER	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	ARONIA MELANOCARPA	BLACK CHOKEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	COMPTONIA PERGRINA	SWEETFERN	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	CORNUS AMOMUM	SILKY DOGWOOD	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	CORNUS SERICEA	RED OSIER DOGWOOD	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	CORYLUS CORNUTA	BEAKED HAZEL	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	ILEX MUCCRONATA	MOUNTAIN HOLLY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	ILEX VERTICILLATA (1 MALE PER 5 FEMALE)	WINTERBERRY HOLLY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	SALIX BEBBIANA	BEB'S WILLOW	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	SALIX DISCOLOR	PUSSY WILLOW	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	SPIRAEA TOMENTOSA	STEEPLEBUSH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
203	VIBURNUM TRILOBUM	AMERICAN CRANBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.

50' WETLAND BUFFER NOTES:
 1. SHRUBS ARE TO BE LOCATED IN CLUSTERS APPROXIMATELY 8'-10' ON CENTER, WITH CLUSTERS LOCATED APPROXIMATELY 15'-20' APART. SHRUB AND TREE SPECIES ARE TO VARY WITHIN PLANTING CLUSTERS. PLANTING LAYOUT TO BE APPROVED BY PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 2. SHRUB CLUSTERS ARE TO BE LOCATED BETWEEN 25' AND 50' FROM EDGE OF WETLAND; NO PLANTING TO OCCUR WITHIN 25' OF WETLAND EDGE.
 3. REFER TO SHEET LP501 FOR SEEDING INFORMATION WITHIN 50' WETLAND BUFFER. NO SEEDING TO OCCUR WITHIN 25' OF WETLAND EDGE.
 4. ALL EXISTING SAND TRAPS ARE TO REMAIN TO PROMOTE WILDLIFE HABITAT.
 5. ONLY SEED MIX SHOULD BE INSTALLED WITHIN 15' OF SAND TRAPS.
 6. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

APPROVAL BLOCK

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

250' SHORELAND BUFFER PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
AR	124	ACER RUBRUM	RED MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
74	ACER SACCHARUM	SILVER MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	ACER SACCHARUM	SUGAR MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
AS	36	ACER SACCHARUM 'BONFIRE'	BONFIRE SUGAR MAPLE	2 1/2-3" CAL.	B+B	-
74	FAGUS GRANDIFOLIA	AMERICAN BEECH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	PRUNUS SEROTINA	BLACK CHERRY TREE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	QUERCUS ALBA	WHITE OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
124	QUERCUS RUBRA	RED OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
QR	50	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	B+B	-
74	QUERCUS VELUTINA	BLACK OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	TILIA AMERICANA	AMERICAN LINDEN	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
UNDERSTORY TREE(S)						
BTA	74	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
52	BETULA ALLEGHANIENSIS	YELLOW BIRCH	12-14'	B+B	MULTI-STEM	
74	BETULA ALLEGHANIENSIS	YELLOW BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	BETULA POPULIFOLIA	GRAY BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
EVERGREEN TREE(S)						
ABB	124	ABIES BALSAMEA	BALSAM FIR	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
151	ABIES BALSAMEA	BALSAM FIR	6-7'	B+B	-	
74	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
124	PINUS RESINOSA	RED PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	PINUS STROBUS	EASTERN WHITE PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
PS	98	PINUS STROBUS	EASTERN WHITE PINE	6-7'	B+B	-
DECIDUOUS SHRUB(S)						
74	ARONIA MELANOCARPA	BLACK CHOKEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
124	ILEX VERTICILLATA (1 MALE PER 5 FEMALE)	WINTERBERRY HOLLY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	RHUS GLABRA	SMOOTH SUMAC	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	RHUS TYPHINA	STAGHORN SUMAC	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	VIBURNUM CASSINOIDES	WITHEROD VIBURNUM	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	VIBURNUM LENTAGO	NANNYBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
74	VIBURNUM RECOGNITUM	NORTHERN ARROWWOOD	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	

250' SHORELAND BUFFER NOTES:
 1. SHRUBS ARE TO BE LOCATED IN CLUSTERS APPROXIMATELY 8'-10' ON CENTER, WITH CLUSTERS LOCATED APPROXIMATELY 15'-20' APART. SHRUB AND TREE SPECIES ARE TO VARY WITHIN PLANTING CLUSTERS. PLANTING LAYOUT TO BE APPROVED BY PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 2. REFER TO SHEET LP501 FOR SEEDING INFORMATION WITHIN SHORE LAND BUFFER.
 3. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

UPLAND RESTORATION AREA PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
PO	75	ACER RUBRUM	RED MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.
75	ACER SACCHARUM	SUGAR MAPLE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	FAGUS GRANDIFOLIA	AMERICAN BEECH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
23	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2-3" CAL.	B+B	-	
75	PRUNUS SEROTINA	BLACK CHERRY TREE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	QUERCUS ALBA	WHITE OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	QUERCUS RUBRA	RED OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
QR	24	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	CONTAINER	-
75	QUERCUS VELUTINA	BLACK OAK	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	TILIA AMERICANA	AMERICAN LINDEN	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
UNDERSTORY TREE(S)						
75	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	BETULA ALLEGHANIENSIS	YELLOW BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	BETULA POPULIFOLIA	GRAY BIRCH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
EVERGREEN TREE(S)						
110	ABIES BALSAMEA	BALSAM FIR	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
110	PINUS RESINOSA	RED PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	PINUS STROBUS	EASTERN WHITE PINE	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
EVERGREEN SHRUB(S)						
75	JUNIPERUS COMMUNIS	COMMON JUNIPER	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
DECIDUOUS SHRUB(S)						
75	ARONIA MELANOCARPA	BLACK CHOKEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	COMPTONIA PERGRINA	SWEETFERN	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	CORYLUS CORNUTA	BEAKED HAZEL	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
110	ILEX VERTICILLATA (1 MALE PER 5 FEMALE)	WINTERBERRY HOLLY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	RHUS TYPHINA	STAGHORN SUMAC	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	VIBURNUM CASSINOIDES	WITHEROD VIBURNUM	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	VIBURNUM LENTAGO	NANNYBERRY	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	
75	VIBURNUM RECOGNITUM	NORTHERN ARROWWOOD	1 GAL.	CONTAINER	spaced @ 8-10' o.c.	

UPLAND RESTORATION NOTES:
 1. SHRUBS ARE TO BE LOCATED IN CLUSTERS APPROXIMATELY 8'-10' ON CENTER, WITH CLUSTERS LOCATED APPROXIMATELY 15'-20' APART. SHRUB AND TREE SPECIES ARE TO VARY WITHIN PLANTING CLUSTERS. PLANTING LAYOUT TO BE APPROVED BY PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 2. ALL EXISTING SAND TRAPS ARE TO REMAIN TO PROMOTE WILDLIFE HABITAT.
 3. ONLY SEED MIX SHOULD BE INSTALLED WITHIN 15' OF SAND TRAPS.
 4. REFER TO SHEET LP501 FOR SEEDING INFORMATION WITHIN UPLAND RESTORATION AREA.
 5. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

07/07/21	PLANNING BOARD SUBMISSION	4
03/31/21	AOT F&G COMMENTS	5
11/30/20	CON. COMM. / PLANNING BOARD COMMENT RESPONSE	4
Date	Description	No.

Revisions



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Project

HUDSON LOGISTICS CENTER

MAP No. 239, LOT No. 1
 HUDSON

HILLSBOROUGH NEW HAMPSHIRE

Drawing Title

LANDSCAPE NOTES AND DETAILS III

Project No.	151010101	Drawing No.	LP503	
Date	09/09/2022	Drawn By		JA
Checked By	MH	Drawn By		JA
		Checked By		MH

FOR PERMITTING ONLY, NOT FOR CONSTRUCTION