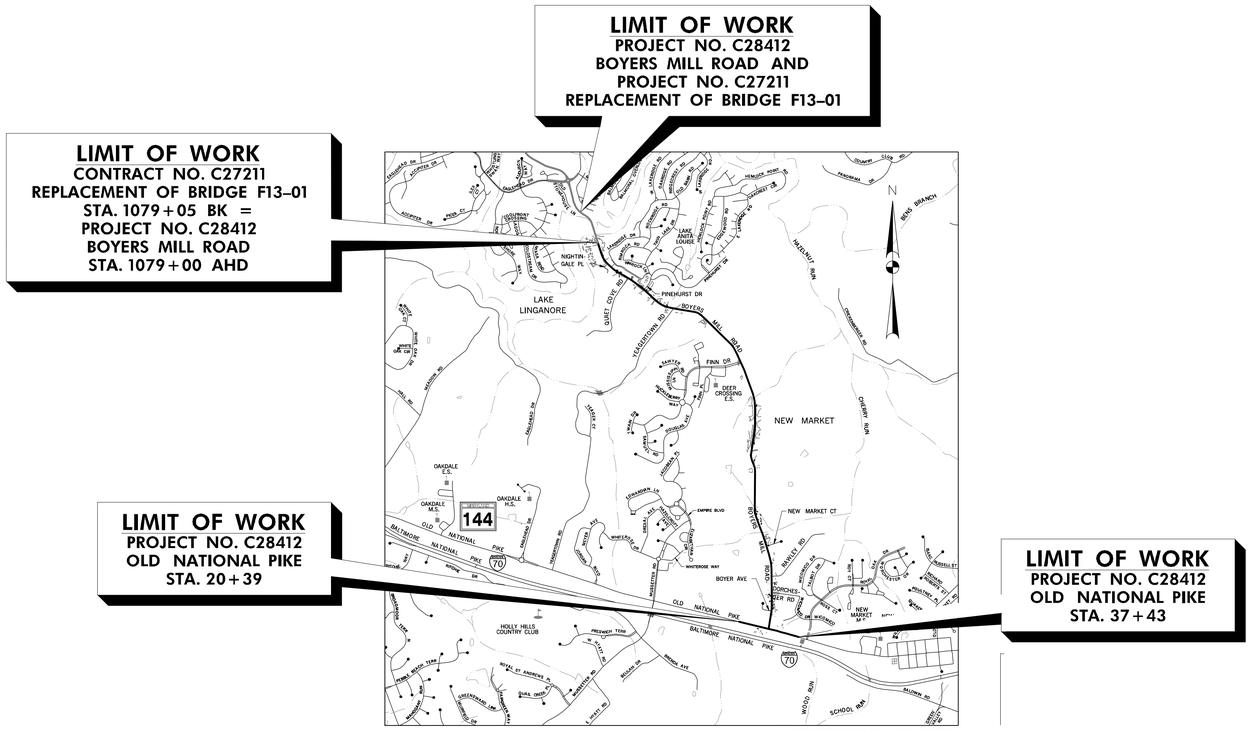
FREDERICK COUNTY MARYLAND
DIVISION OF PUBLIC WORKS
OFFICE OF TRANSPORTATION ENGINEERING

BOYERS MILL ROAD

FROM SOUTH OF LAKE LINGANORE
TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN
(WITHIN TOWN LIMITS OF NEW MARKET)

FREDERICK COUNTY PROJECT NO. C28412



FREDERICK COUNTY

LENGTH OF PROJECT:
BOYERS MILL ROAD = 2.5 miles
OLD NATIONAL PIKE= 0.3 mile

LOCATION MAP
SCALE 1" = 2000'

TOWN OF NEW MARKET
COMBINED PRELIMINARY/FINAL
FOREST CONSERVATION PLAN
APPROVAL

FILE #:

STAFF SIGNATURE	DATE

FCP-1

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE
TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=2000'

PROJECT NO: C28412

STATE OF MARYLAND
LICENSED FOREST CONSERVANCY
SCOTT AITKENHEAD
NO. 684
BOARD OF FORESTERS

WALLACE MONTGOMERY
ENGINEERS·PLANNERS·SURVEYORS·CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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A Limited Liability Partnership

$FILEL$
3/11/2021

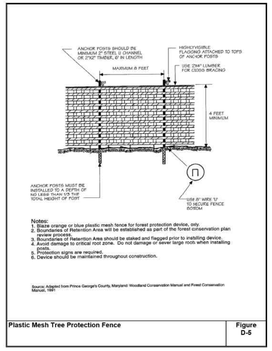
FOREST STAND SUMMARY

Stand Number	Area Within LOD (acre)	Forest Stand Characteristics		Priority Forest	Invasive Species Density Level	Comments
1	0.26	Overstory	*Fraxinus pennsylvanica, Prunus serotina:* **Size class: 6-11"**	Yes	Low	Upland hardwood stand adjacent to bridge and new residential neighborhood.
		Understory	*Crataegus sp., Rubus sliceae*			
		Herbaceous	*Lonicera japonica, Smilax rotundifolia, Acer saccharum*			
2	0.04	Overstory	*Fraxinus pennsylvanica, Acer negundo, Quercus alba:* **Size class: 12 20"**	Yes	Low	Downed woody debris is mainly due to utility maintenance. Elevated above the road.
		Understory	*Crataegus sp.*			
		Herbaceous	*Solidago gigantea , Rubus accidentalis, Allium ascalonium*			
3	0.02	Overstory	*Quercus prinus, Carya ovata, Carya tomentosa:* **Size class: 12-20"**	Yes	Medium	Standing dead trees present. Elevated above the road. Hazard trees present.
		Understory	*Fagus grandifolia, Crataegus sp., Carya ovata, Quercus alba*			
		Herbaceous	*Lonicera japonica, Quercus prinus, Rubus occidentalis*			
4	0.32	Overstory	*Liriodendron tulipifera, Quercus alba, Prunus serotina:* **Size class: 12-30"**	Yes	Low	
		Understory	*Crataegus sp., Fagus grandifolia, Fraxinus pennsylvanica*			
		Herbaceous	*Rubus occidentalis, Smilax rotundifolia, Allium ascalonium, Ulmus rubra*			
5	0.25	Overstory	*Fraxinus pennsylvanica, Liriodendron tulipifera, Fagus grandifolia, Quercus alba, Quercus prinus:* **Size class: 12-30"**	Yes	Low	
		Understory	*Fraxinus pennsylvanica, Populus alba, Crataegus sp., Quercus rubra, Carya cordiformis*			
		Herbaceous	*Rubus occidentalis, Smilax rotundifolia, Lonicera japonica*			
6	0.11	Overstory	*Quercus rubra, Prunus serotina, Carya glabra:* **Size class: 6-20"**	Yes	Low	Low quality stand because of many standing dead trees. Many Hazard trees present.
		Understory	*Lindera benzoin, Quercus rubra, Carya glabra*			
		Herbaceous	*Lonicera japonica*			
7	0.11	Overstory	*Fraxinus pennsylvanica, Liriodendron tulipifera, Acer platanoides:* **Size class: 12-30"**	Yes	Low	Many Norway maple present within 50 ft of road.
		Understory	*Acer platanoides, Fagus grandifolia, Lindera benzoin*			
		Herbaceous	*Allium ascalonium, Acer platanoides, Hedera helix*			
8	0.47	Overstory	*Ailanthus altissima, Acer platanoides:* **Size class: 6-20"**	No	High	Invasive species mostly within first 75 ft of road.
		Understory	*Acer platanoides, Crataegus sp., Acer negundo, Fraxinus pennsylvanica*			
		Herbaceous	*Rubus occidentalis, Lonicera japonica, Smilax rotundifolia, Robinia pseudoacacia*			
9	0.04	Overstory	*Pyrus calleryana:* **Size class: 2-6"**	Yes	High	
		Understory	*Pyrus calleryana*			
		Herbaceous	*Lonicera japonica, Toxicodendron radicans, Cirsium arvense, Solidago gigantea*			
10	0.004	Overstory	*Acer negundo, Prunus serotina, Pyrus calleryana:* **Size class: 2-11"**	No	High	
		Understory	*Berberis thunbergii*			
		Herbaceous	*Lonicera japonica, Smilax rotundifolia, goldenrod, Crataegus sp.*			
11	0	Overstory	*Juglans nigra , Acer negundo, Fraxinus pennsylvanica:* **Size class: 6-20"**	Yes	High	Within Town of New Market
		Understory	*Acer negundo, Acer rubrum, Sambucus nigra*			
		Herbaceous	*Solidago gigantea, Microstegium vimineum, Rosa multiflora, Diervilla lonicera, Polygonum sagittatum, Vitis spp.*			
12	0.09	Overstory	*Fraxinus pennsylvanica, Acer negundo, Acer rubrum:* **Size class: 6-20"**	Yes	High	Within Town of New Market
		Understory	*Acer negundo, Acer rubrum*			
		Herbaceous	*Microstegium vimineum, Lonicera japonica, Smilax rotundifolia, Phragmites australis, Rubus accidentalis*			
13	0.90	Overstory	*Quercus alba, Quercus rubra, Fraxinus pennsylvanica:* **Size class: 12-30"**	No	Medium	Lumped utility easement into forest; Within Town o' New Market
		Understory	*Fagus grandifolia, Carya glabra, Vaccinium corymbosum, Fraxinus pennsylvanica, Prunus serotina*			
		Herbaceous	*Lonicera japonica, Alliaria petiolata*			
14	0.19	Overstory	*Carya glabra, Fraxinus pennsylvanica, Quercus rubra:* **Size class: 6-20"**	No	Medium	Within Town of New Market
		Understory	*Acer rubrum, Fraxinus pennsylvanica, Carya glabra, Prunus serotina*			
		Herbaceous	*Lonicera japonica, Rubus allegheniensis, Alliaria petiolata, Fraxinus pennsylvanica*			
15	0.08	Overstory	*Quercus rubra, Prunus serotina, Fraxinus pennsylvanica:* **Size class: 12-20"**	No	Low	Small isolated forest stand within field. Within Town of New Market
		Understory	*Pyrus calleryana, Prunus serotina, Acer rubrum*			
		Herbaceous	*Rubus occidentalis, Lonicera japonica, Acer rubrum, Schedonorus arundinaceus*			
16	0	Overstory	*Pinus strobus:* **Size class: 12-20"**	No	Low	White pine stand
		Understory	None			
		Herbaceous	*Schedonorus arundinaceus*			
17	0.06	Overstory	*Quercus rubra, Quercus prinus, Quercus alba:* **Size class: 12-20"**	Yes	Low	Within Town of New Market
		Understory	*Prunus serotina, Fagus grandifolia, Quercus velutina, Carya glabra*			
		Herbaceous	*Lonicera japonica, Prunus serotina, Smilax rotundifolia*			
18	0.07	Overstory	*Quercus rubra, Quercus prinus, Quercus alba:* **Size class: 12-20"**	Yes	Low	Within Town of New Market
		Understory	*Prunus serotina, Fagus grandifolia, Quercus velutina, Carya glabra*			
		Herbaceous	*Lonicera japonica, Prunus serotina, Smilax rotundifolia*			

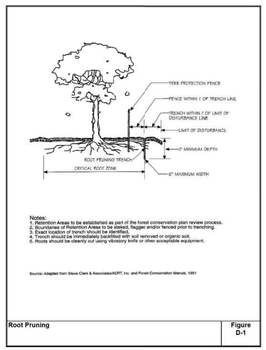
SOILS CHART

SOIL	SOIL SERIES	K-VALUE (WHOLE)	HYDRIC SOIL	HIGHLY ERODIBLE SOIL*	DRAINAGE CLASS
BkD	Brinklow-Blocktown channery loams, 15 to 25 percent slopes	0.20	No	Yes	Well Drained
FxA	Foxville and Hatboro soils, 0 to 3 percent slopes	0.17	Partially	No	Somewhat Poorly Drained
GgB	Glenelg channery loam, 3 to 8 percent slopes	0.20	No	No	Well Drained
GhB	Glenelg-Blocktown gravelly loams, 3 to 8 percent slopes	0.17	No	No	Well Drained
GhC	Glenelg-Blocktown gravelly loams, 8 to 15 percent slopes	0.17	No	No	Well Drained
GoB	Glenville silt loam, 3 to 8 percent slopes	0.37	No	No	Moderately Well Drained
GoC	Glenville silt loam, 8 to 15 percent slopes	0.37	No	Yes	Moderately Well Drained
HtF	Hyattstown very channery loam, 25 to 65 percent slopes, rocky	0.17	No	No	Well Drained
HyD	Hyattstown-Linganore channery silt loams, 15 to 25 percent slopes	0.24	No	Yes	Well Drained
LyB	Linganore-Hyattstown channery silt loams, 3 to 8 percent slopes	0.24	No	No	Well Drained
LyC	Linganore-Hyattstown channery silt loams, 8 to 15 percent slopes	0.24	No	No	Well Drained
MnB	Mt. Zion-Rohrersville complex, 3 to 8 percent slopes	0.20	No	No	Moderately Well Drained
MoB	Mt. Zion-Codorus complex, 0 to 8 percent slopes	0.20	No	No	Moderately Well Drained
RoB	Rohrersville-Lantz silt loams, 0 to 8 percent slopes	0.37	No	No	Somewhat Poorly Drained

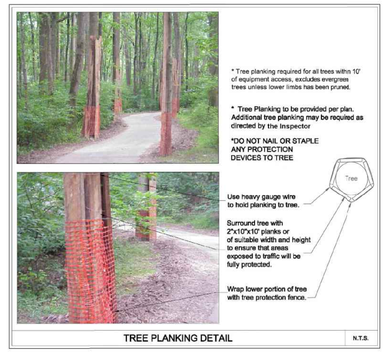
* HIGHLY ERODIBLE SOILS ARE DEFINED AS SOILS WITH A SLOPE GREATER THEN 15%, OR A K-VALUE OF GREATER THAN 0.35 AND SLOPES GREATER THEN 15%



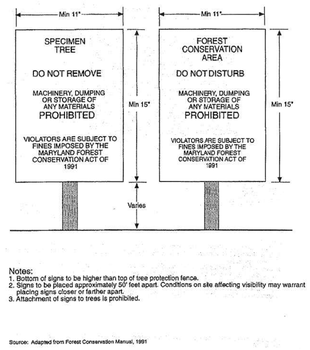
Plastic Mesh Tree Protection Fence — Figure D-5



Root Pruning — Figure D-1



TREE PLANKING DETAIL — N.T.S.



Source: Adapted from Forest Conservation Manual, 1991

TREE PROTECTION FENCE QUANTITIES AND LOCATIONS

START STATION	STATION OFFSET (FT)	END STATION	END STATION OFFSET (FT)	TOTAL LENGTH (FT)	NOTES
1079+08 RT	23	1079+25 RT	39	24	
1079+54 RT	31	1081+39 RT	34	190	
1081+33 LT	29	1089+48 LT	47	824	
1081+44 RT	29	1081+73 RT	46	41	DEPICTED AS SSF
1081+73 RT	46	1082+59 RT	27	109	DEPICTED AS SSF
1082+59 RT	27	1082+86 RT	31	33	DEPICTED AS SSF
1082+84 RT	23	1083+29 RT	25	50	DEPICTED AS SSF
1083+25 RT	30	1083+99 RT	43	82	DEPICTED AS SSF
1083+99 RT	43	1084+27 RT	39	36	DEPICTED AS SSF
1084+27 RT	39	1084+78 RT	43	57	DEPICTED AS SSF
1084+78 RT	43	1085+02 RT	48	35	DEPICTED AS SSF
1085+03 RT	39	1085+21 RT	39	25	DEPICTED AS SSF
1089+31 RT	78	1089+53 RT	38	51	
1089+50 RT	28	1089+87 RT	35	41	DEPICTED AS SSF
1089+55 LT	44	1089+74 LT	33	23	
1089+75 LT	24	1097+97 LT	26	829	DEPICTED AS DF
1089+87 RT	35	1090+58 RT	51	79	DEPICTED AS SSF
1090+58 RT	51	1091+73 RT	35	123	DEPICTED AS SSF
1091+73 RT	35	1092+17 RT	36	47	DEPICTED AS SSF
1092+17 RT	36	1092+36 RT	51	28	DEPICTED AS SSF
1092+49 RT	43	1092+60 RT	74	37	DEPICTED AS SSF
1095+71 RT	37	1098+50 RT	46	293	
1098+63 LT	52	1099+58 LT	64	98	
1100+92 RT	43	1106+35 RT	37	569	
1105+95 LT	43	1106+62 LT	97	89	
1106+79 LT	74	1107+12 LT	71	36	DEPICTED AS SSF
1107+04 LT	84	1107+48 LT	76	49	DEPICTED AS SSF
1107+79 LT	79	1108+18 LT	77	47	DEPICTED AS SSF
1108+18 LT	77	1108+61 LT	75	50	DEPICTED AS SSF
1108+61 LT	75	1108+64 LT	56	19	
1108+64 LT	56	1109+00 LT	43	45	DEPICTED AS SSF
1109+00 LT	43	1109+22 LT	47	25	DEPICTED AS SSF
1117+40 RT	36	1118+74 RT	37	126	DEPICTED AS DF
1127+78 LT	37	1128+49 LT	35	75	
1128+49 LT	35	1128+69 LT	39	25	DEPICTED AS SSF
1143+83 RT	61	1143+88 RT	49	42	DEPICTED AS DF
1143+96 RT	59	1145+26 RT	41	138	
1145+81 RT	67	1146+21 RT	131	91	DEPICTED AS SSF
1145+99 LT	38	1149+14 LT	40	321	
1146+21 RT	131	1146+64 RT	152	52	DEPICTED AS SSF
1146+66 RT	156	1147+68 RT	66	155	DEPICTED AS DF
1147+56 RT	45	1149+21 RT	43	165	
1149+25 LT	37	1150+60 LT	38	138	
1150+00 RT	64	1150+77 RT	81	80	
1150+67 LT	42	1151+06 LT	38	42	
1150+87 RT	72	1151+18 RT	103	50	DEPICTED AS SSF
1151+15 LT	41	1154+83 LT	53	388	
1151+18 RT	114	1155+70 RT	53	517	
1154+98 LT	50	1156+00 LT	31	110	DEPICTED AS SSF
1155+79 RT	37	1158+08 RT	25	234	
1156+00 LT	31	1156+65 LT	20	69	DEPICTED AS SSF
1156+65 LT	20	1157+20 LT	34	59	DEPICTED AS SSF
1157+37 LT	37	1157+75 LT	29	42	DEPICTED AS SSF
1157+80 LT	43	1158+16 LT	33	40	DEPICTED AS SSF
1158+16 LT	33	1158+88 LT	40	76	DEPICTED AS SSF
1158+98 LT	49	1159+12 LT	54	15	
1159+12 LT	43	1159+35 LT	28	36	DEPICTED AS SSF
1159+35 LT	28	1159+82 LT	34	47	DEPICTED AS SSF
1159+77 LT	45	1162+39 LT	38	256	
1162+39 LT	38	1162+60 LT	24	31	DEPICTED AS SSF
1162+60 LT	24	1162+97 LT	31	38	DEPICTED AS SSF
1163+81 RT	121	1164+04 RT	119	20	DEPICTED AS SSF
1164+03 RT	128	1164+88 RT	76	99	
1178+02 LT	63	1180+59 LT	49	267	
1184+45 LT	32	1186+36 LT	48	204	
1196+70 LT	40	1199+25 LT	45	256	
1199+22 LT	28	1199+55 LT	51	40	DEPICTED AS SSF
1199+83 LT	51	1201+74 LT	51	204	
1200+16 RT	25	1200+23 RT	59	42	
1201+80 RT	23	1201+82 RT	55	33	
1201+88 LT	52	1203+59 LT	47	179	
1203+69 LT	47	1204+27 LT	52	60	
24+80 RT	51	26+63+ RT	51	181	

SITE STATISTICS

TOTAL PARCEL AREA	11.94 ACRES
TOTAL TRACT AREA	11.94 ACRES
AREA IN 100-YEAR NONTIDAL FLOODPLAIN[1]	0.0 ACRES
NET TRACT AREA	11.94 ACRES
LAND USE CATEGORY, PERTINENT THRESHOLD PERCENT AND AREA	IDA, 20% 11.94 ACRES
TOTAL AREA OF EXISTING FOREST COVER	0.62 ACRES
TOTAL AREA OF PROPOSED FOREST CLEARING	0.62 ACRES
TOTAL AREA OF REFORESTATION	0.0 ACRES
TOTAL AREA OF AFFORESTATION	0.0 ACRES
TOTAL AREA IN RETENTION AREAS	0.0 ACRES

[1]BASED ON FEMA FLOOD MAP #24021C0320D

Forest Conservation Worksheet 2.2

Net Tract Area

A. Total Tract Area[1] — A = 11.94
B. Deductions — B = 0.00
C. Net Tract Area — C = 11.94

Land Use Category

Input the number "1" under the appropriate land use zoning, and limit to only one entry

ARA	MDR	IDA	HDR	MPD	CIA
0	0	1	0	0	0

D. Afforestation Threshold (Net Tract Area x 15%) — D = 1.79
E. Conservation Threshold (Net Tract Area x 20%) — E = 2.39

Existing Forest Cover

F. Existing Forest Cover within the Net Tract Area — F = 0.62
G. Area of Forest Above Conservation Threshold — G = 0.00

Break Even Point

H. Break Even Point — H = 0.62
I. Forest Clearing Permitted Without Mitigation — I = 0.00

Proposed Forest Clearing

J. Total Area of Forest to be Cleared — J = 0.62
K. Total Area of Forest to be Retained — K = 0.00

Planting Requirements

L. Reforestation for Clearing Above the Conservation Threshold — L = 0.00
M. Reforestation for Clearing Below the Conservation Threshold — M = 1.24
N. Credit for Retention above the Conservation Threshold — N = 0.00
P. Total Reforestation Required — P = 1.24
Q. Total Afforestation Required — Q = 1.17
R. Total Planting Requirement [2,3] — R = 2.41

[1] Net Tract Area was calculated based on the requirements stated in "Technical Manual" (Chapter 4.1.2)

[2] Reforestation and Afforestation cannot occur as described within Section 9.0 of the Land Development Ordinance (LDO) for the Town of New Market because the remaining areas between the new edge of roadway and the new County right-of-way line will not provide enough planting area to meet the LDO minimum requirements for forest establishment.

[3] Proposed mitigation will be provided by Frederick County Department of Public Works. Compensation will be provided, as described within Section 10.1 of the LDO for the Town of New Market, in the form of forest banking credits in the amount of 2.41 acres of new forest credit.

SPECIMEN TREE IMPACTS

TREE #	STA.	SCIENTIFIC NAME	DBH (inches)	CONDITION[1]	STATUS	Root Pruning Required
3	1089+00 LT	*Quercus rubra*	52	Good	Saved	Yes
4	1089+30 RT	*Quercus alba*	33.5	Fair	Removed	No
33	1089+96 LT	*Quercus rubra*	34	Good	Saved	Yes
5	1090+15 RT	*Liriodendron tulipifera*	31	Good	Saved	Yes
6	1093+42 LT	*Quercus alba*	35	Good	Saved	Yes
7	1093+60 LT	*Quercus alba*	47	Good	Saved	Yes
8	1097+28 LT	*Quercus rubra*	31	Good	Saved	No
9	1099+03 LT	*Quercus rubra*	30.8	Good	Removed	No
11	1106+10 LT	*Ailanthus altissima*	32.3	Good	Removed[2]	No
12	1146+43 LT	*Quercus rubra*	39.7	Poor	Saved	Yes
13	1156+97 LT	*Quercus rubra*	35.7	Good	Saved	Yes
14	1157+54 RT	*Quercus rubra*	33.7	Good	Removed	No
34	1162+04 LT	*Quercus alba*	53.8	Good	Saved	Yes
35	1162+13 LT	*Quercus alba*	66.8	Good	Removed	No
20	1175+43 LT	*Fraxinus pennsylvanica*	31	Poor	Removed	No
21	1175+72 LT	*Fraxinus pennsylvanica*	31	Poor	Removed	No
19	1176+20 LT	*Quercus rubra*	33.3	Good	Removed	No
22	1176+78 LT	*Quercus montana*	36.3	Poor	Removed	No
18	1177+30 LT	*Quercus rubra*	30	Good	Saved	No
23	1178+55 LT	*Quercus alba*	37.5	Poor	Removed	No
17	1178+67 LT	*Quercus montana*	36.5	Good	Saved	Yes
15	1179+94 LT	*Quercus alba*	40.7	Good	Saved	Yes
16	1179+26 LT	*Quercus alba*	43.5	Good	Saved	Yes
36	1186+30 LT	*Prunus serotina*	30	Good	Saved	Yes
24	1197+14 LT	*Quercus rubra*	34.7	Good	Saved	Yes
25	1197+22 LT	*Quercus alba*	39.4	Poor	Saved	No
26	1200+66 LT	*Quercus rubra*	30.7	Good	Saved	Yes
27	1201+47 LT	*Quercus rubra*	35.9	Good	Saved	Yes
28	1201+84 RT	*Acer saccharinum*	35.4	Good	Saved	Yes
29	1200+22 RT	*Quercus palustris*	38.5	Good	Saved	Yes
30	1200+28 RT	*Acer saccharinum*	35.4	Good	Saved	Yes
31	1203+00 LT	*Quercus alba*	35.8	Fair	Saved	Yes
32	1203+77 LT	*Quercus alba*	35.2	Good	Removed	No
37	25+45 RT	*Acer saccharinum*	51.7	Good	Saved	Yes

[1]**Condition**
Good – The tree is in generally good health with no noticeable oefects or problems.
Fair – The tree is in generally good health but there are noticeable defects that may be signs of future problems with the trees health or stability.
Poor – The tree has defects that could result in declining health and/or stability issue in the immediate future, potentially hazardous conditions present.
[2] **Removal approved by Staff**

WALLACE MONTGOMERY
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STATE OF MARYLAND — LICENSED FOREST CONSULTANT — SCOTT AITKENHEAD — NO. 684 — BOARD OF FORESTERS

FCP-2

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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DATE: MARCH 2021

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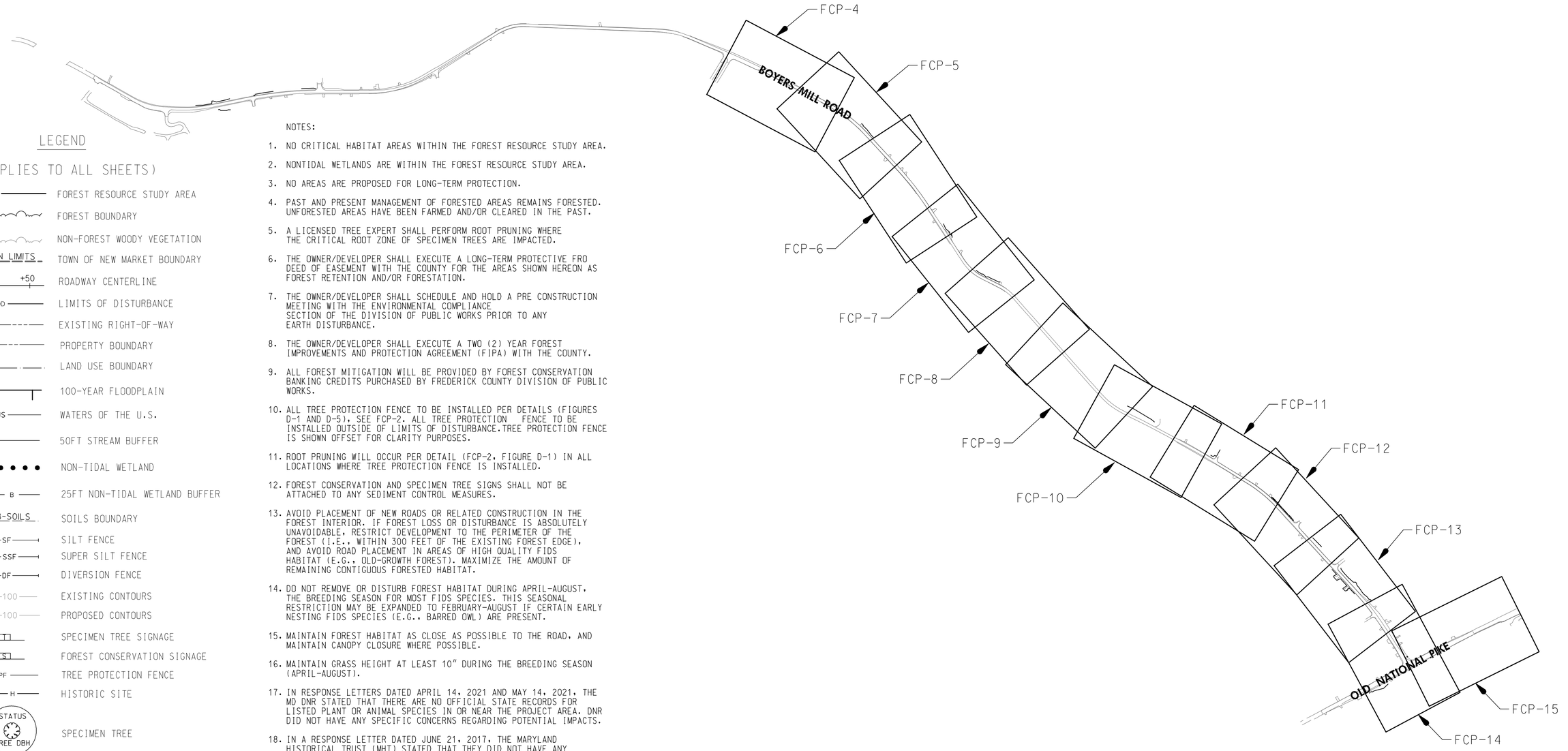
7/26/2021



LEGEND

(APPLIES TO ALL SHEETS)

- FOREST RESOURCE STUDY AREA
- FOREST BOUNDARY
- NON-FOREST WOODY VEGETATION
- TOWN LIMITS — TOWN OF NEW MARKET BOUNDARY
- 1100 +50 — ROADWAY CENTERLINE
- LOD — LIMITS OF DISTURBANCE
- EXISTING RIGHT-OF-WAY
- PROPERTY BOUNDARY
- LAND USE BOUNDARY
- 100-YEAR FLOODPLAIN
- WUS — WATERS OF THE U.S.
- 50FT STREAM BUFFER
- NON-TIDAL WETLAND
- B — 25FT NON-TIDAL WETLAND BUFFER
- GoB-SOILS — SOILS BOUNDARY
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- DF — DIVERSION FENCE
- -100 — EXISTING CONTOURS
- 100 — PROPOSED CONTOURS
- SPECIMEN TREE SIGNAGE
- FOREST CONSERVATION SIGNAGE
- TPF — TREE PROTECTION FENCE
- H — HISTORIC SITE
- STATUS / CRZ / TREE DBH — SPECIMEN TREE
- INDIVIDUAL TREE
- STATUS / CRZ / TREE DBH — SPECIMEN TREE REMOVAL
- TREE REMOVAL
- STEEP SLOPES (15% TO 25%)
- STEEP SLOPES (25% OR GREATER)
- FOREST REMOVAL

NOTES:

1. NO CRITICAL HABITAT AREAS WITHIN THE FOREST RESOURCE STUDY AREA.
2. NONTIDAL WETLANDS ARE WITHIN THE FOREST RESOURCE STUDY AREA.
3. NO AREAS ARE PROPOSED FOR LONG-TERM PROTECTION.
4. PAST AND PRESENT MANAGEMENT OF FORESTED AREAS REMAINS FORESTED. UNFORESTED AREAS HAVE BEEN FARMED AND/OR CLEARED IN THE PAST.
5. A LICENSED TREE EXPERT SHALL PERFORM ROOT PRUNING WHERE THE CRITICAL ROOT ZONE OF SPECIMEN TREES ARE IMPACTED.
6. THE OWNER/DEVELOPER SHALL EXECUTE A LONG-TERM PROTECTIVE FRO DEED OF EASEMENT WITH THE COUNTY FOR THE AREAS SHOWN HEREON AS FOREST RETENTION AND/OR FORESTATION.
7. THE OWNER/DEVELOPER SHALL SCHEDULE AND HOLD A PRE CONSTRUCTION MEETING WITH THE ENVIRONMENTAL COMPLIANCE SECTION OF THE DIVISION OF PUBLIC WORKS PRIOR TO ANY EARTH DISTURBANCE.
8. THE OWNER/DEVELOPER SHALL EXECUTE A TWO (2) YEAR FOREST IMPROVEMENTS AND PROTECTION AGREEMENT (FIPA) WITH THE COUNTY.
9. ALL FOREST MITIGATION WILL BE PROVIDED BY FOREST CONSERVATION BANKING CREDITS PURCHASED BY FREDERICK COUNTY DIVISION OF PUBLIC WORKS.
10. ALL TREE PROTECTION FENCE TO BE INSTALLED PER DETAILS (FIGURES D-1 AND D-5), SEE FCP-2. ALL TREE PROTECTION FENCE TO BE INSTALLED OUTSIDE OF LIMITS OF DISTURBANCE.TREE PROTECTION FENCE IS SHOWN OFFSET FOR CLARITY PURPOSES.
11. ROOT PRUNING WILL OCCUR PER DETAIL (FCP-2, FIGURE D-1) IN ALL LOCATIONS WHERE TREE PROTECTION FENCE IS INSTALLED.
12. FOREST CONSERVATION AND SPECIMEN TREE SIGNS SHALL NOT BE ATTACHED TO ANY SEDIMENT CONTROL MEASURES.
13. AVOID PLACEMENT OF NEW ROADS OR RELATED CONSTRUCTION IN THE FOREST INTERIOR. IF FOREST LOSS OR DISTURBANCE IS ABSOLUTELY UNAVOIDABLE, RESTRICT DEVELOPMENT TO THE PERIMETER OF THE FOREST (I.E., WITHIN 300 FEET OF THE EXISTING FOREST EDGE), AND AVOID ROAD PLACEMENT IN AREAS OF HIGH QUALITY FIDS HABITAT (E.G., OLD-GROWTH FOREST). MAXIMIZE THE AMOUNT OF REMAINING CONTIGUOUS FORESTED HABITAT.
14. DO NOT REMOVE OR DISTURB FOREST HABITAT DURING APRIL-AUGUST, THE BREEDING SEASON FOR MOST FIDS SPECIES. THIS SEASONAL RESTRICTION MAY BE EXPANDED TO FEBRUARY-AUGUST IF CERTAIN EARLY NESTING FIDS SPECIES (E.G., BARRED OWL) ARE PRESENT.
15. MAINTAIN FOREST HABITAT AS CLOSE AS POSSIBLE TO THE ROAD, AND MAINTAIN CANOPY CLOSURE WHERE POSSIBLE.
16. MAINTAIN GRASS HEIGHT AT LEAST 10" DURING THE BREEDING SEASON (APRIL-AUGUST).
17. IN RESPONSE LETTERS DATED APRIL 14, 2021 AND MAY 14, 2021, THE MD DNR STATED THAT THERE ARE NO OFFICIAL STATE RECORDS FOR LISTED PLANT OR ANIMAL SPECIES IN OR NEAR THE PROJECT AREA. DNR DID NOT HAVE ANY SPECIFIC CONCERNS REGARDING POTENTIAL IMPACTS.
18. IN A RESPONSE LETTER DATED JUNE 21, 2017, THE MARYLAND HISTORICAL TRUST (MHT) STATED THAT THEY DID NOT HAVE ANY SPECIFIC CONCERNS REGARDING POTENTIAL IMPACTS.
19. IN A RESPONSE LETTER, DATED JUNE 27, 2016, DNR FISHERIES STATED THAT LINGANORE CREEK, HAZELNUT RUN, AND CHERRY RUN (MIDDLE POTOMAC RIVER BASIN) AND TRIBUTARIES NEAR THE SITE ARE CLASSIFIED AS USE IV-P STREAMS (RECREATIONAL TROUT WATERS AND PUBLIC WATER SUPPLY). GENERALLY, NO INSTREAM WORK IS PERMITTED IN USE IV STREAMS DURING THE PERIOD OF MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
20. IN A RESPONSE LETTER, DATED JUNE 27, 2016, DNR FISHERIES STATED THAT FOR PROJECTS INVOLVING THE USE OF GROUT, MORTAR, OR CONCRETE IN OR NEAR THE STREAM CHANNEL, CAUTION SHOULD BE USED TO AVOID SIGNIFICANT INSTREAM PH CHANGES (PH SPIKES) ONSITE AND DOWNSTREAM; THESE SPIKES CAN POTENTIALLY BE CAUSED BY THE CURING PROCESSES OF THESE MATERIALS IF THEY COME IN CONTACT WITH STREAMFLOW WHILE CURING. CARE SHOULD ALSO BE TAKEN IN DESIGN AND CONSTRUCTION TO MAINTAIN PASSAGE OPPORTUNITIES FOR AQUATIC LIFE AFTER PROJECT COMPLETION.

400' 0 400' 800'
SCALE: 1" = 400'

STATE OF MARYLAND — LICENSED FOREST CONSERVANCY — NO. 684 — SCOTT AITKENHEAD — BOARD OF FORESTERS

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FCP-3

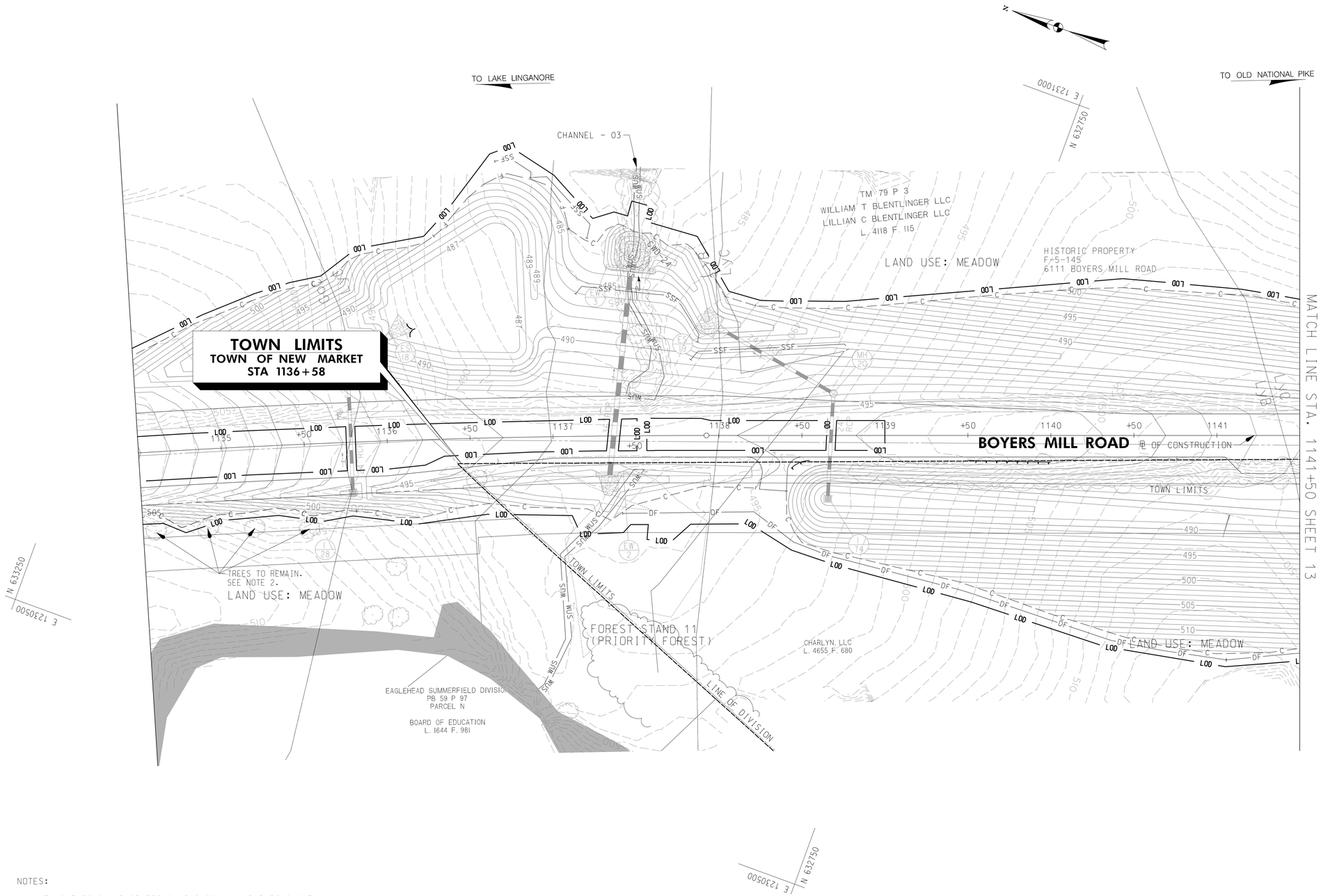
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=400'

PROJECT NO: C28412

$FILE\$
7/26/2021



NOTES:

1. WHEN CLEARING AND GRUBBING TO INSTALL AND DURING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE TEMPORARY EASEMENT AREAS, (BETWEEN THE LIMITS OF PERMANENT GRADING AND LIMIT OF DISTURBANCE), THE CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREES WITHIN THE AREA. THE CONTRACTOR SHALL PRESENT THE ENGINEER WITH POSSIBLE OPTIONS TO MINIMIZE DISTURBANCES TO THESE ITEMS FOR APPROVAL.
2. TREES TO REMAIN. CONTRACTOR TO EXERCISE EXTREME CAUTION AROUND TREE SO NO DAMAGE IS DONE TO IT.

30' 0 30' 60'
SCALE: 1" = 30'

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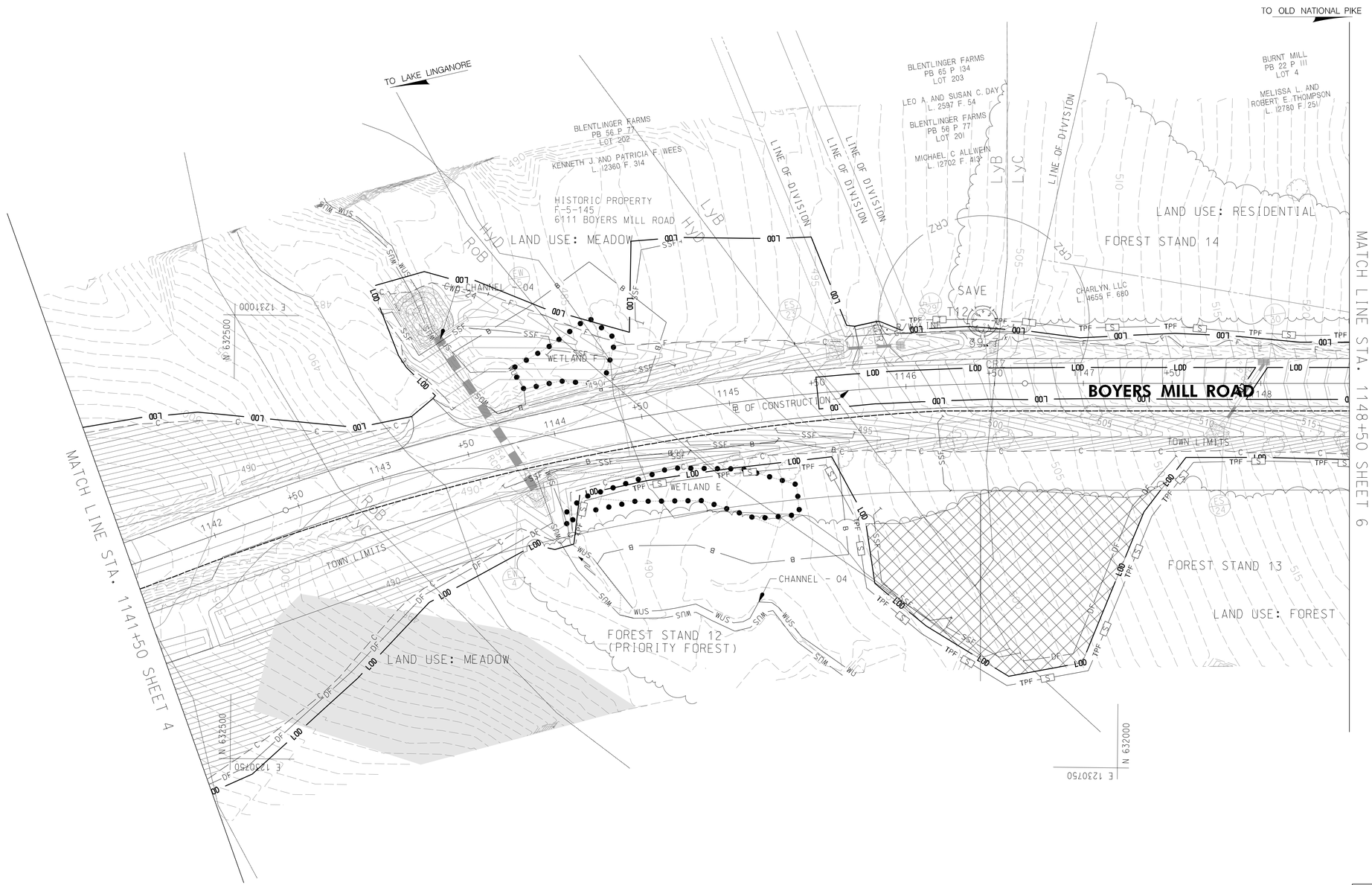
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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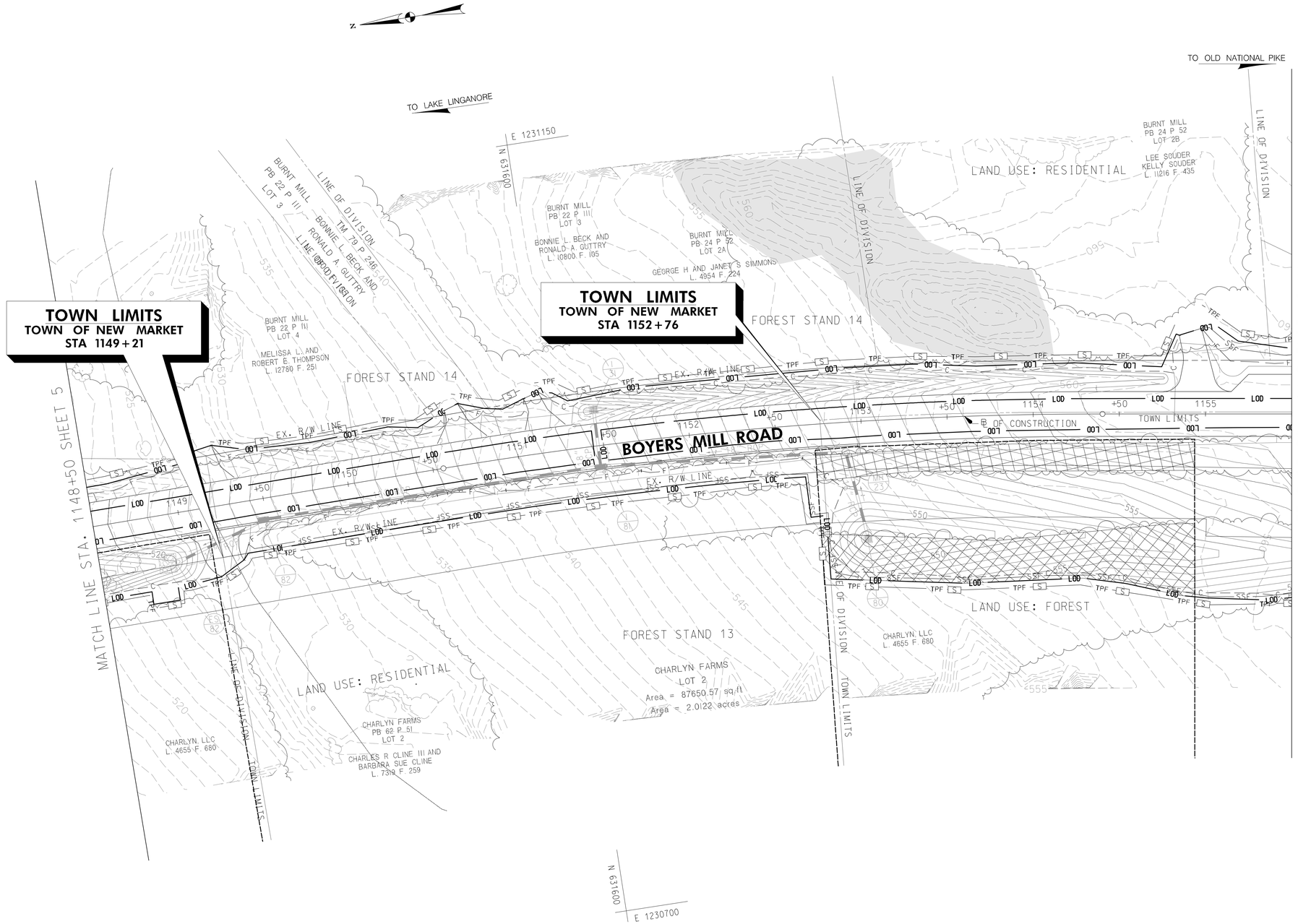
BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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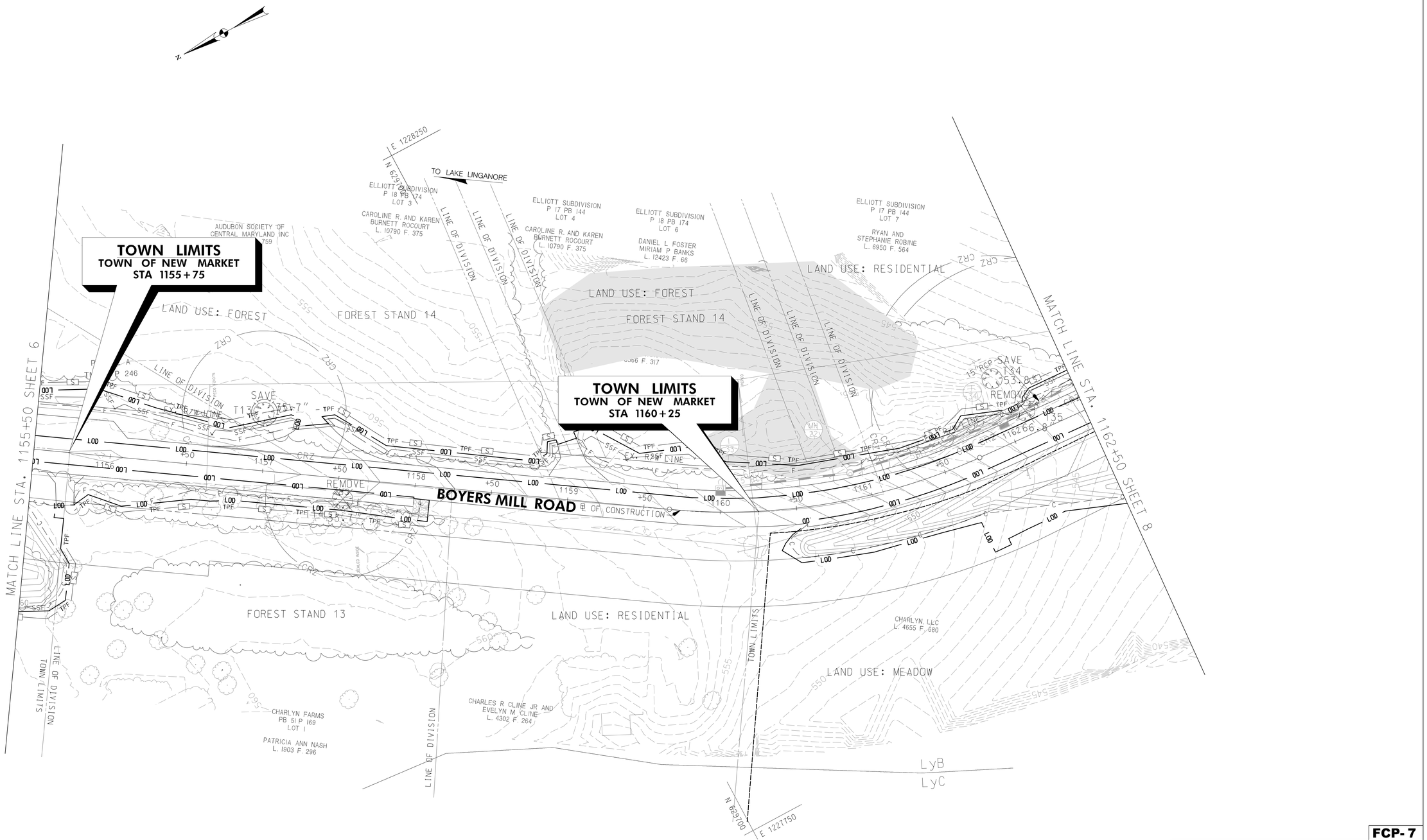
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE\$
3/11/2021



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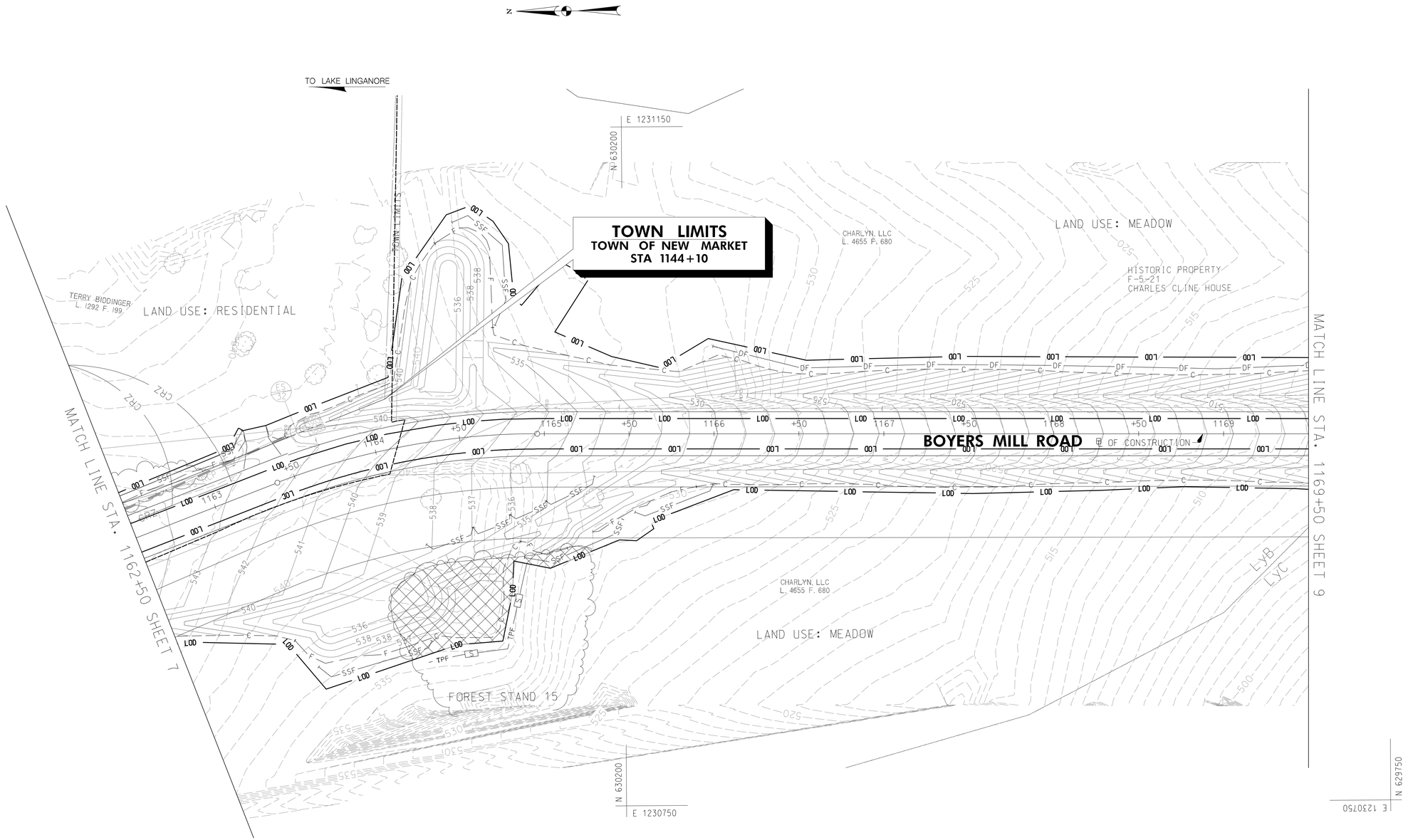
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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30' 0 30' 60'
SCALE: 1" = 30'

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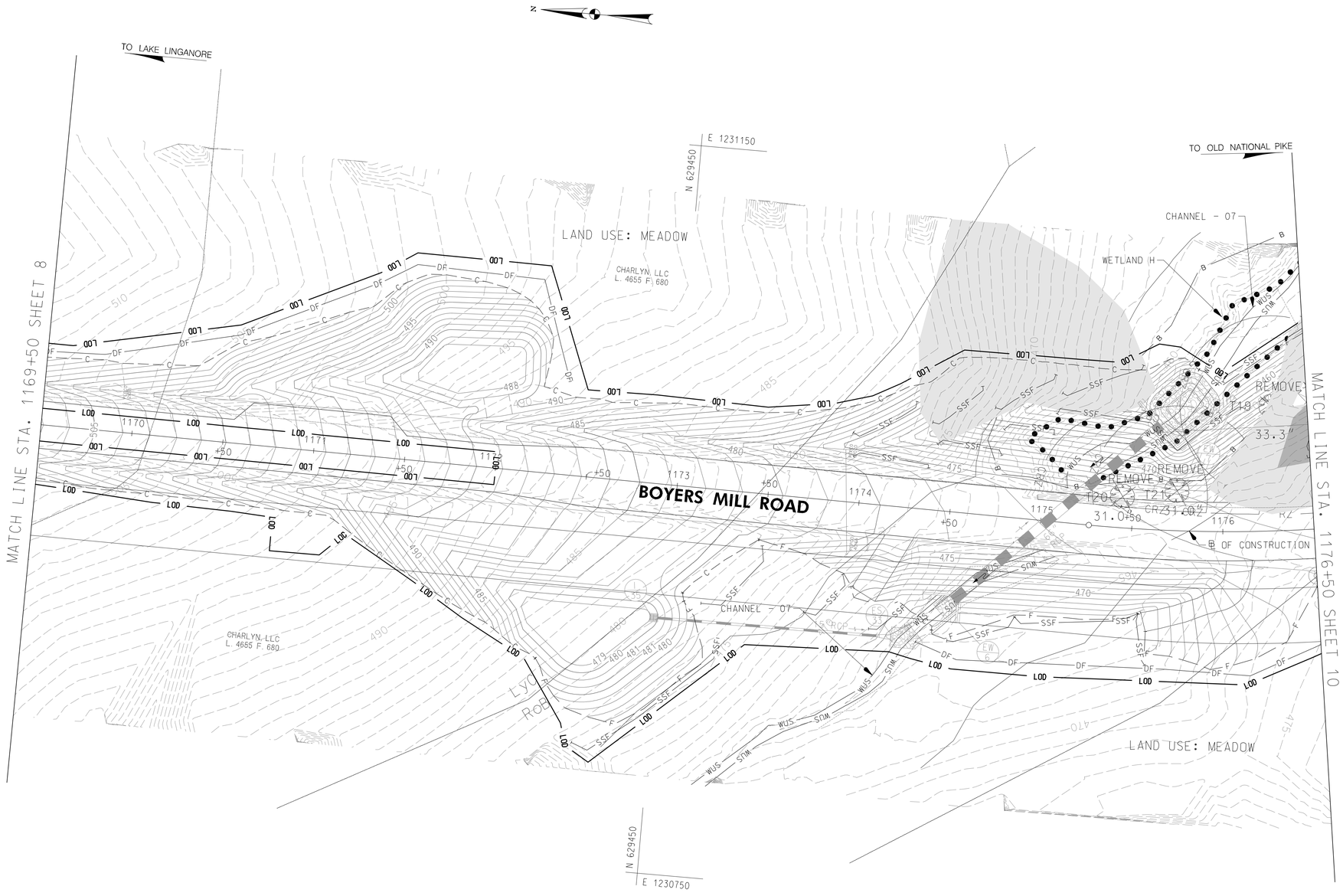
BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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BOYERS MILL ROAD
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FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

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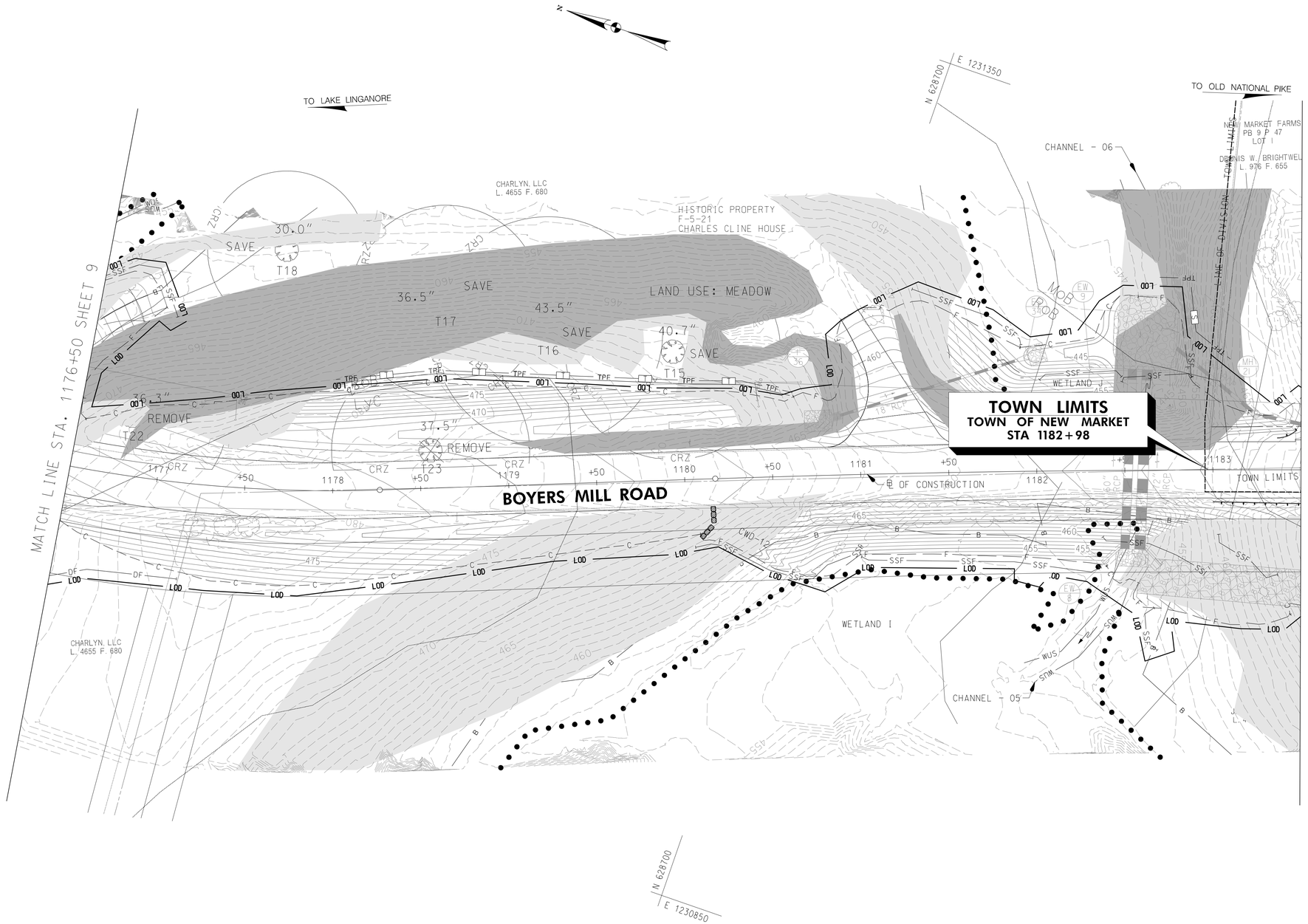
3/11/2021



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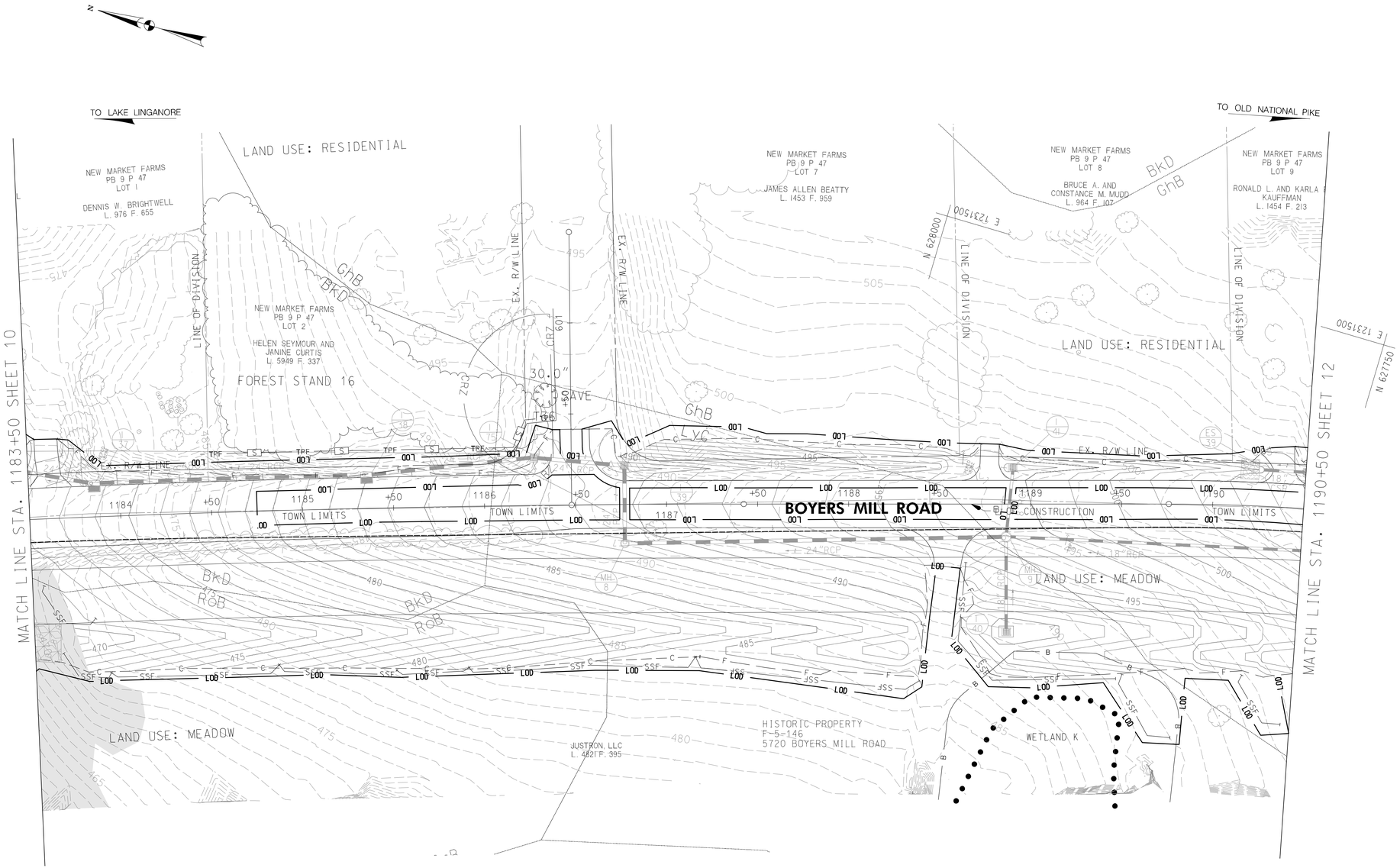
BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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STATE OF MARYLAND
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BOYERS MILL ROAD
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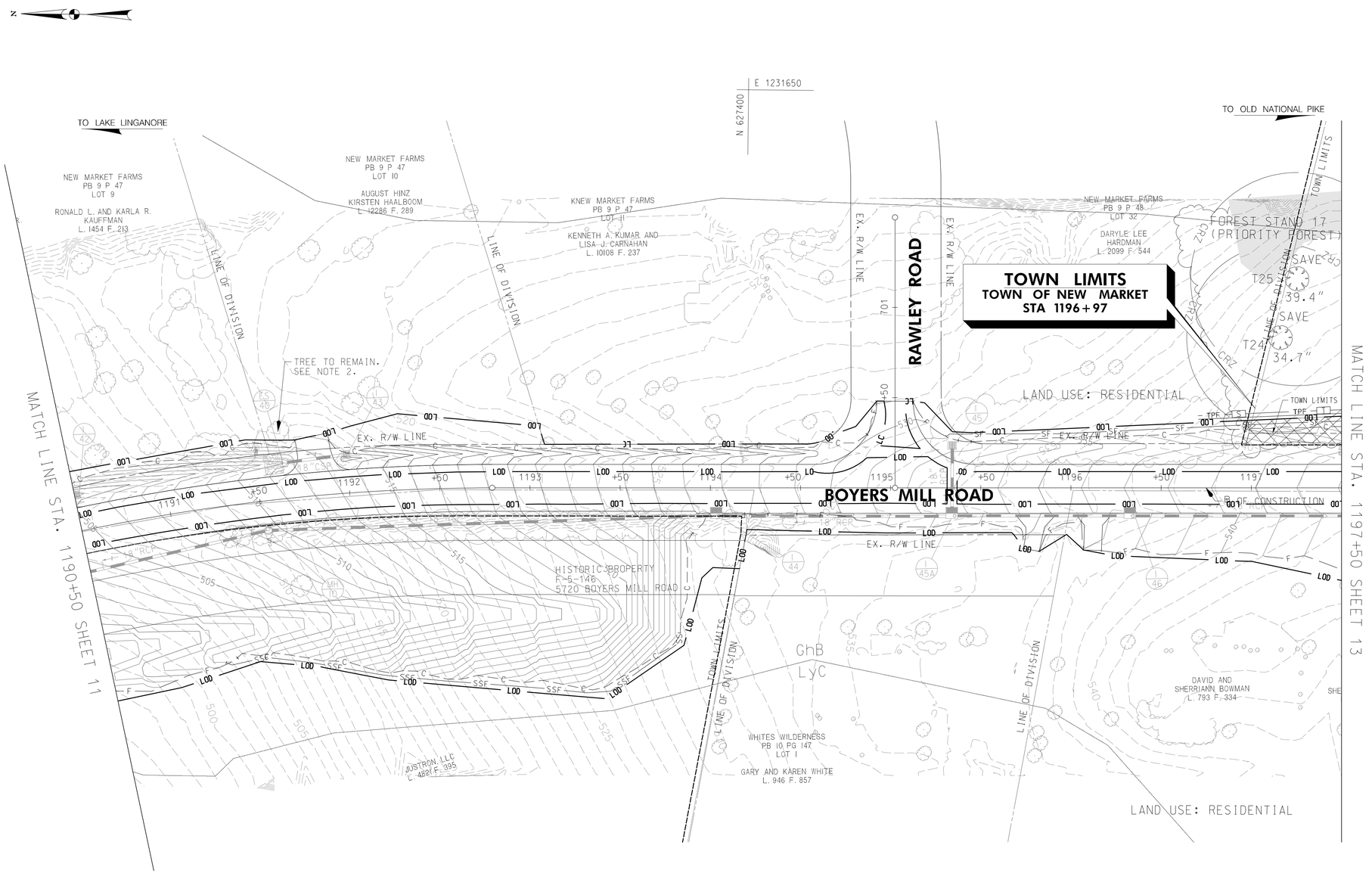
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021



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2. TREES TO REMAIN. CONTRACTOR TO EXERCISE EXTREME CAUTION AROUND TREE SO NO DAMAGE IS DONE TO IT.

30' 0 30' 60'
SCALE: 1" = 30'

STATE OF MARYLAND
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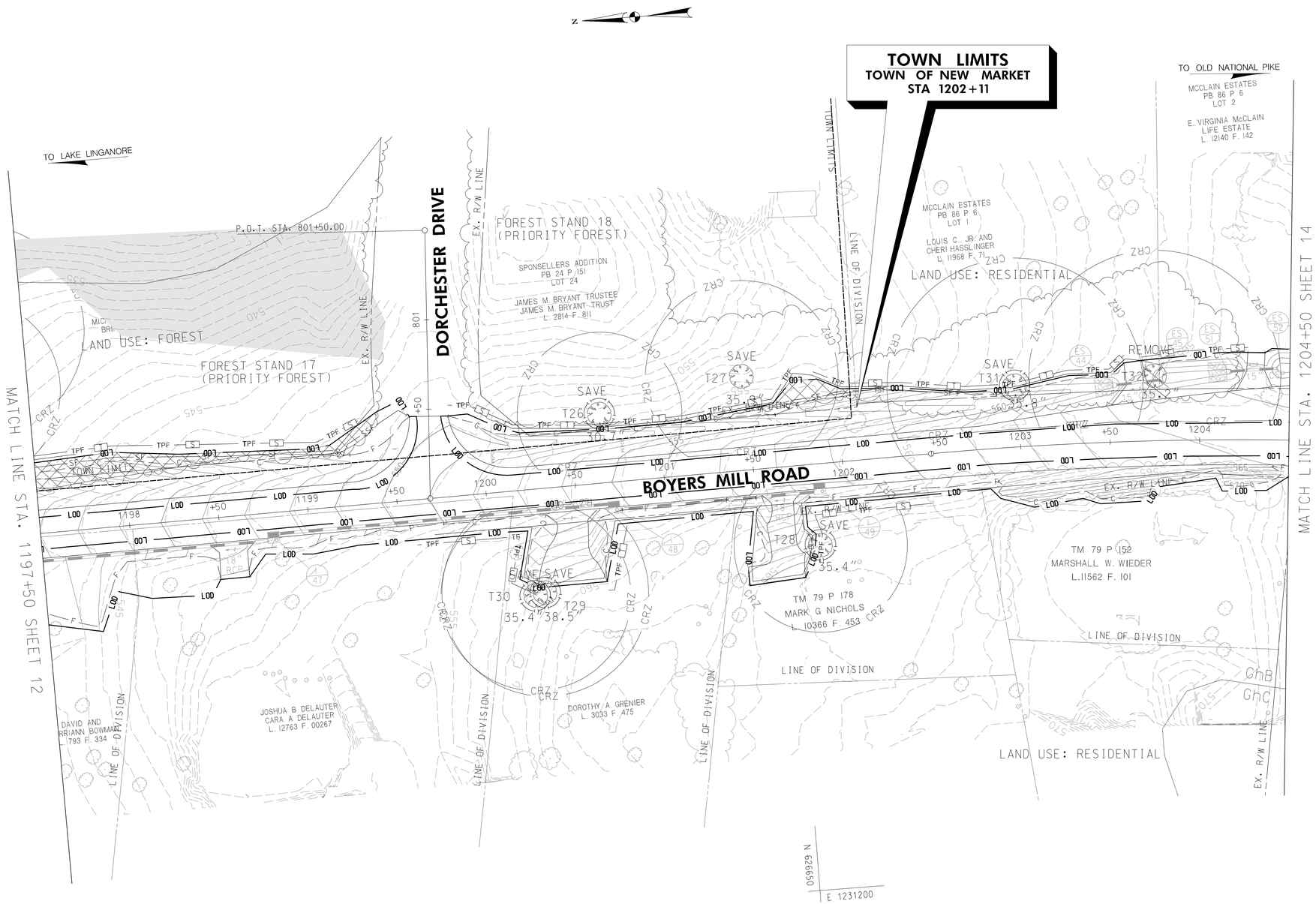

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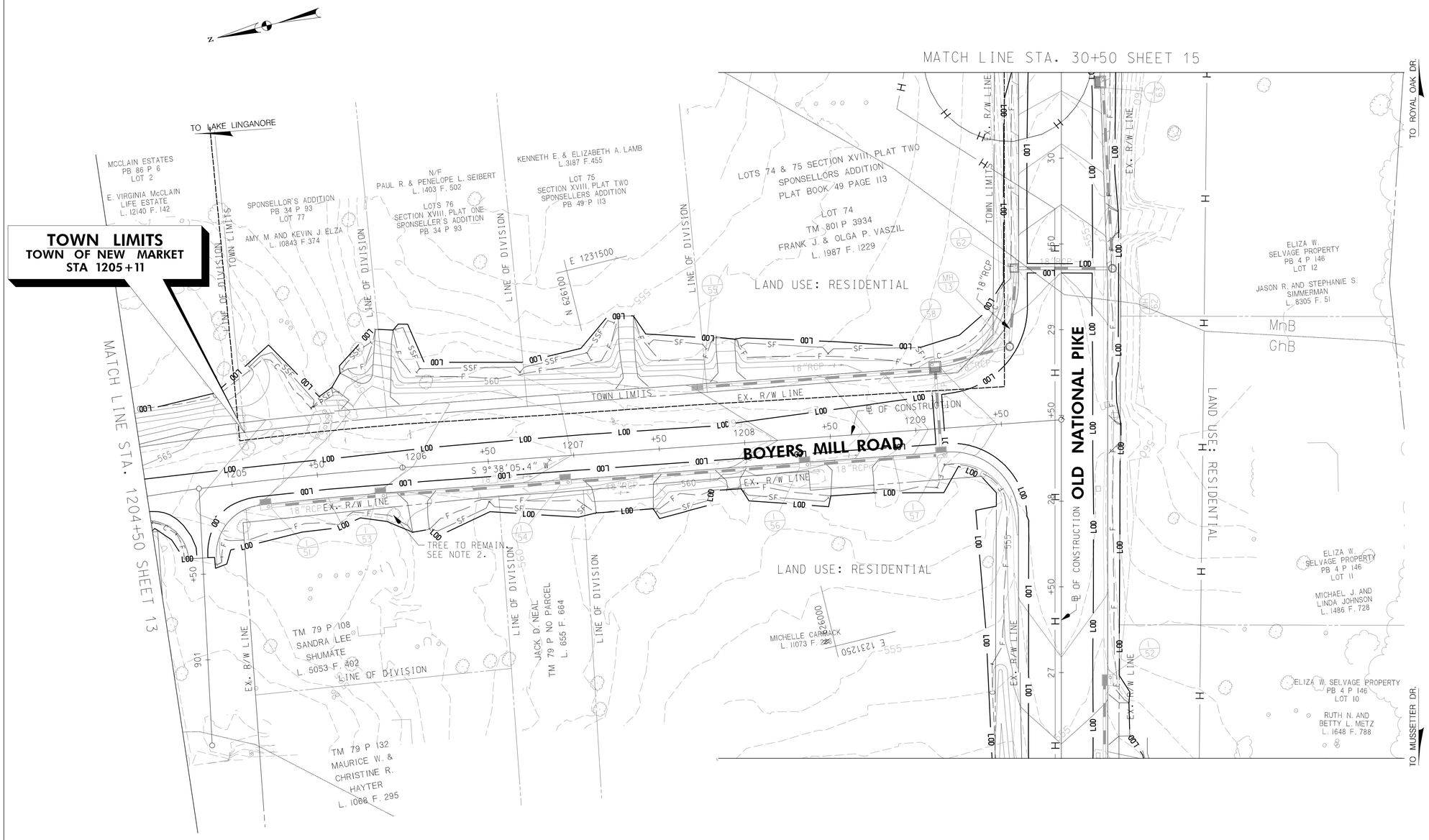
BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILEL$
3/11/2021



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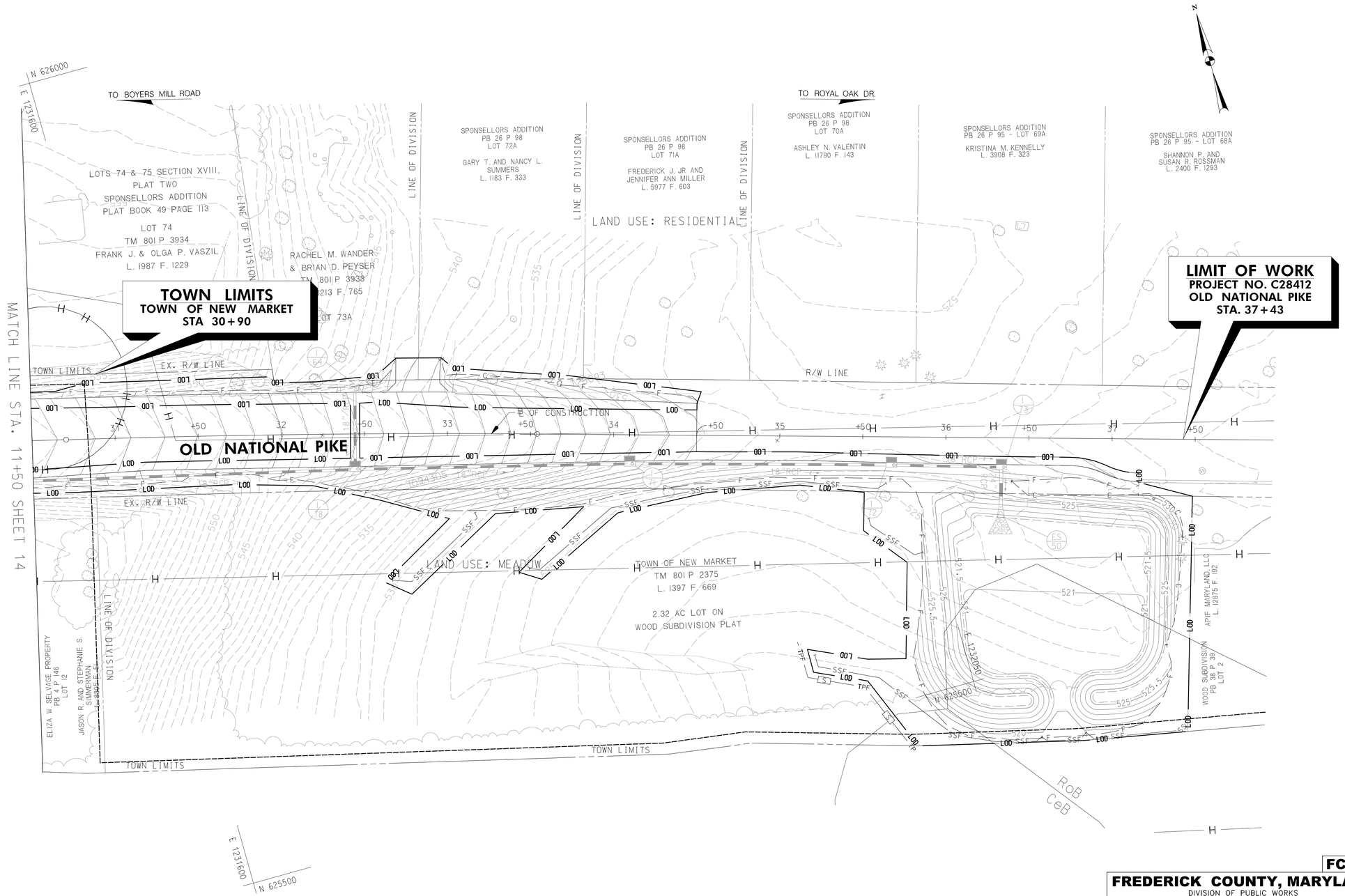
BOYERS MILL ROAD
FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE
FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE\$
3/11/2021



NOTES:

1. WHEN CLEARING AND GRUBBING TO INSTALL AND DURING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE TEMPORARY EASEMENT AREAS, (BETWEEN THE LIMITS OF PERMANENT GRADING AND LIMIT OF DISTURBANCE), THE CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREES WITHIN THE AREA. THE CONTRACTOR SHALL PRESENT THE ENGINEER WITH POSSIBLE OPTIONS TO MINIMIZE DISTURBANCES TO THESE ITEMS FOR APPROVAL.

30' 0 30' 60'
SCALE: 1" = 30'

STATE OF MARYLAND LICENSED FOREST CONSERVANCY SCOT AITKENHEAD NO. 582 BOARD OF FORESTERS

WALLACE MONTGOMERY
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FCP-15

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

BOYERS MILL ROAD FROM SOUTH OF LAKE LINGANORE TO OLD NATIONAL PIKE FOREST CONSERVATION PLAN

DATE: MARCH 2021 SCALE: 1"=30'

PROJECT NO: C28412

$FILE$
3/11/2021