

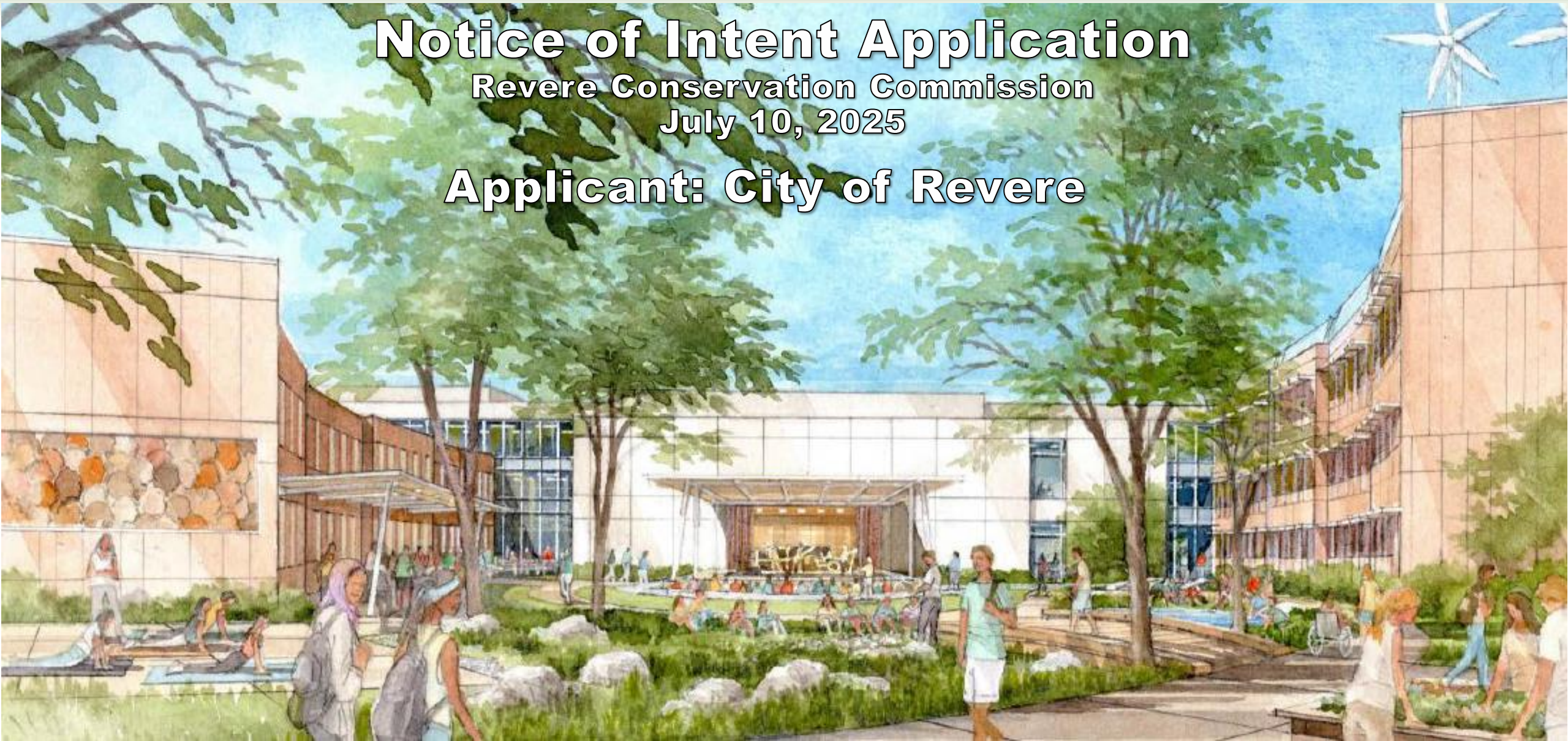
# Revere High School

## Notice of Intent Application

Revere Conservation Commission

July 10, 2025

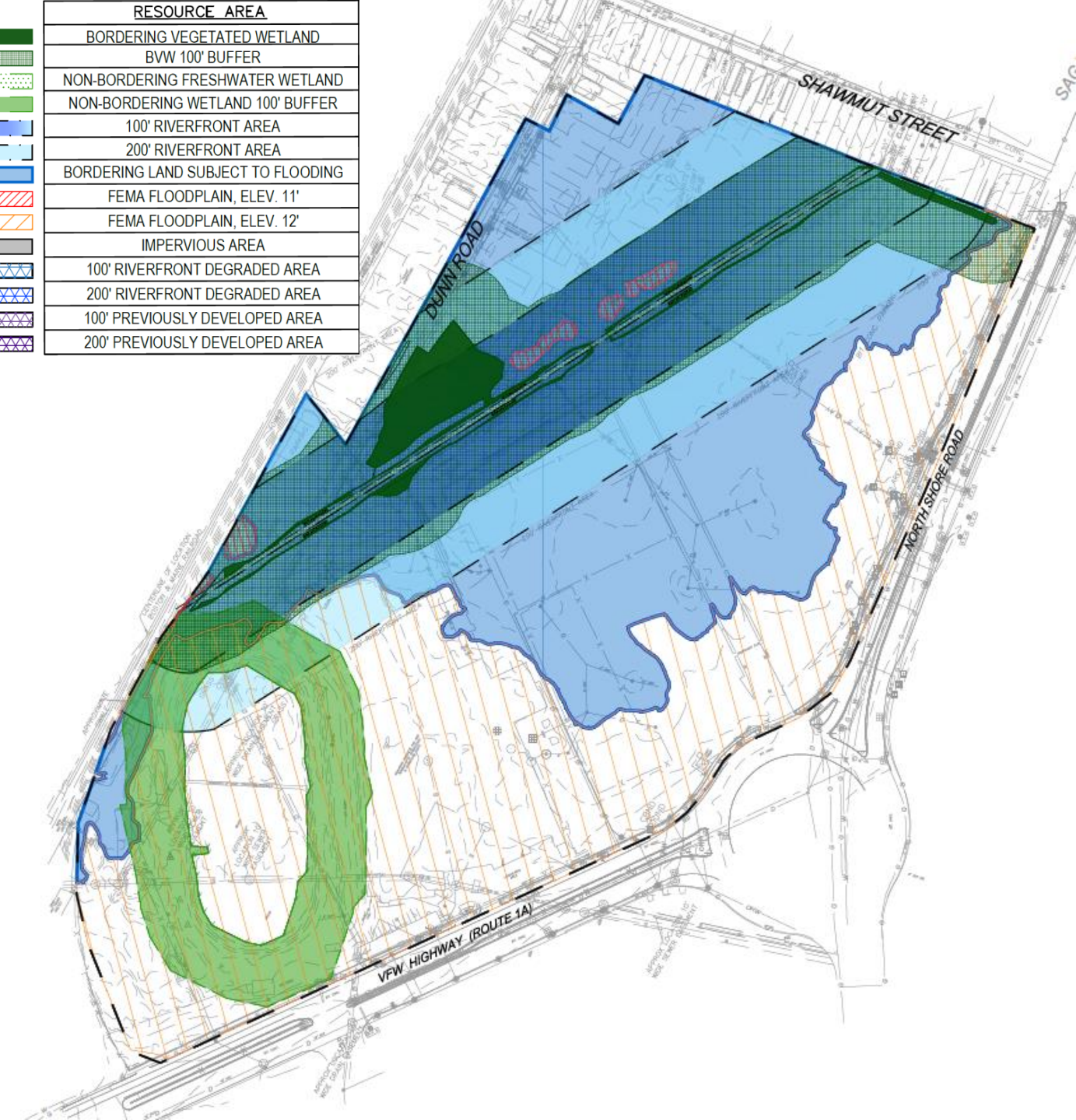
Applicant: City of Revere



# Existing Conditions and Wetland Resource Areas



RESOURCE AREA	
	BORDERING VEGETATED WETLAND
	BVW 100' BUFFER
	NON-BORDERING FRESHWATER WETLAND
	NON-BORDERING WETLAND 100' BUFFER
	100' RIVERFRONT AREA
	200' RIVERFRONT AREA
	BORDERING LAND SUBJECT TO FLOODING
	FEMA FLOODPLAIN, ELEV. 11'
	FEMA FLOODPLAIN, ELEV. 12'
	IMPERVIOUS AREA
	100' RIVERFRONT DEGRADED AREA
	200' RIVERFRONT DEGRADED AREA
	100' PREVIOUSLY DEVELOPED AREA
	200' PREVIOUSLY DEVELOPED AREA





# Landscaping: Courtyard



**TREE SCHEDULE**

KEY	PLANT TYPE	COMMON NAME	QTY	ROOT	SIZE	NOTES
AA	<i>Amelanchier arborea</i>	DOWNY SERVICEBERRY	18	B+B	10' HT	MULTI-STEM
AG	<i>Amelanchier grandiflora</i> <i>Autumn Brilliance</i>	AUTUMN BRILLIANCE SERVICEBERRY	22	B+B	8' HT	MULTI-STEM
AR	<i>Acer rubrum</i>	RED MAPLE	54	B+B	3" CAL	
AT	<i>Asimina triloba</i>	PAW PAW	5	B+B	1.5" CAL	
ASA	<i>Acer saccharum</i>	SUGAR MAPLE	4	B+B	4" CAL	
BN	<i>Betula nigra</i> 'Cully'	HERITAGE RIVER BIRCH	35	B+B	10' HT	MULTI-STEM
BP	<i>Betula populifolia</i> 'Whitespire'	WHITESPIRE SENIOR BIRCH	30	B+B	15' HT	MULTI-STEM
CC	<i>Carpinus caroliniana</i>	AMERICAN HORNBEAM	18	B+B	15' HT	MULTI-STEM
CCS	<i>Cercis canadensis</i>	AMERICAN REDBUD	18	B+B	2.5" CAL	
CF	<i>Cornus florida</i>	FLOWERING DOGWOOD	17	B+B	2.5" CAL	
DV	<i>Diospyros virginiana</i>	COMMON PERSIMMON	3	B+B	2" CAL	MULTI-STEM
FG	<i>Fagus grandifolia</i>	AMERICAN BEECH	9	B+B	4" CAL	
JV	<i>Juniperus virginiana</i>	EASTERN RED CEDAR	18	B+B	4" CAL	
NS	<i>Nyssa sylvatica</i>	BLACKGUM	11	B+B	3" CAL	
OV	<i>Ostrya virginiana</i>	AMERICAN HOPHORNBEAM	4	B+B	2" CAL	
PA	<i>Prunus americana</i>	AMERICAN PLUM	7	B+B	8' HT	MULTI-STEM
PS	<i>Pinus strobus</i>	WHITE PINE	41	B+B	4" CAL	
QB	<i>Quercus bicolor</i>	SWAMP WHITE OAK	17	B+B	4" CAL	
QC	<i>Quercus coccinea</i>	SCARLET OAK	8	B+B	4" CAL	
QP	<i>Quercus palustris</i>	PIN OAK	9	B+B	3" CAL	
SN	<i>Salix nigra</i>	BLACK WILLOW	5	B+B	4" CAL	
UAP	<i>Ulmus americana</i> 'Princeton'	PRINCETON AMERICAN ELM	3	B+B	4" CAL	

SHRUBS	COMMON NAME	QTY	ROOT	SIZE	NOTES	
CR	<i>Cornus racemosa</i>	NORTHERN SWAMP DOGWOOD	2	B+B	0' HT	MULTI-STEM
MP	<i>Myrica pensylvanica</i>	NORTHERN BAYBERRY	53	B+B	8' HT	MULTI-STEM
RC	<i>Rhus copallina</i> var <i>latifolia</i> 'Morton'	PRAIRIE FLAME SUMAC	89	B+B	8' HT	MULTI-STEM
VD	<i>Viburnum dentatum</i>	ARROWWOOD VIBURNUM	90	B+B	8' HT	MULTI-STEM
VP	<i>Viburnum prunifolium</i>	BLACKHAW VIBURNUM	14	B+B	12' HT	MULTI-STEM

- GENERAL NOTES:**
- REFER TO ALL OTHER ADDITIONAL GENERAL & LAYOUT NOTES.
  - REFER TO SPEC FOR SOIL MIX AND SOIL MODIFICATION INSTRUCTIONS.
  - ALL PLANTINGS SHALL BE SUBMITTED FOR APPROVAL BY THE CITY.
  - ALL LOCATIONS OF TREES TO AVOID DRILL OR CONFLICT WITH ALL SITE UTILITIES.
  - MINOR SURVEY MARKS MATCH ALL PLANT BEES UNLESS OTHERWISE NOTED.
  - SOIL TESTS ARE ACCEPTABLE TO CITY OF BIRMINGHAM.
  - REFER TO LAYOUT FOR FULL PLANT LIST.



**PLANTING SCHEDULE**

KEY	PLANTING	ROOT	QTY	NOTES
FUA	FORESTED UPLAND MIX A	VARIABLE	37,200 SF	
FUB	FORESTED UPLAND MIX B	VARIABLE	5,875 SF	
FUC	FORESTED UPLAND MIX C	VARIABLE	6,280 SF	
FUD	FORESTED UPLAND MIX D	VARIABLE	3,744 SF	
BM	BAVANNA MIX	VARIABLE	24,450 SF	
BN	SHARP WETLAND MIX	VARIABLE	21,218 SF	REFER TO LAYOUT FOR MIX
MMA	MEADOW MIX A	VARIABLE	24,518 SF	
MMD	MEADOW MIX B	VARIABLE	23,804 SF	
RM	RAIN GARDEN MIX	VARIABLE	400 SF	
AM	AQUATIC MIX	VARIABLE	15,487 SF	
IM	ISLAND MIX	VARIABLE	250 SF	
MP	MEDICHOUSSET	VARIABLE	2,200 SF	
PCD	POA PRATIENSIS MIX	VARIABLE	10,370 SF	

**NOTES:** ALL SOIL QUANTITIES LISTED ABOVE ARE APPROXIMATE. SEE SPEC FOR DETAILS.

**PLANTING PLAN KEY**

SOIL CONDITION, PLANTING AND SITE SUBMITTALS	1:50 SCHEDULE	2:50 SCHEDULE	3:50 SCHEDULE
REFER TO LAYOUT AND MATERIALS PLAN	1:50 SCHEDULE	2:50 SCHEDULE	3:50 SCHEDULE
SOIL PROFILE 1 - PLANTED AT GRADE	1:50	2:50	3:50
SOIL PROFILE 2 - LAWN AT GRADE	3:50	2:50	1:50
SOIL PROFILE 3 - RESTRICTION	3:50	2:50	1:50
SOIL PROFILE 4 - PLANTED ON STRUCTURE	4:50	2:50	1:50
SOIL PROFILE 5 - LAWN ON STRUCTURE	5:50	2:50	1:50
SOIL PROFILE 6 - AQUATIC SOIL	6:50	2:50	1:50
SHALLOWSUBMERGICAL PLANTING	7:50	2:50	1:50
BARE ROOT PLANTING	7:50	2:50	1:50
MEADOW PLANTING	8:50	2:50	1:50
AQUATIC PLANTING	9:50	2:50	1:50
TRUSS TYPE 1 - PLANTING	10:50	2:50	1:50
TRUSS TYPE 2 - ON STRUCTURE	11:50	2:50	1:50
TRUSS TYPE 3 - RESTRICTION	12:50	2:50	1:50
TRUSS TYPE 4 - STONE MULCH	13:50	2:50	1:50
TRUSS TYPE 5 - PAVEMENT GRATE	14:50	2:50	1:50
TRUSS TYPE 6 - LAWN	15:50	2:50	1:50
GRAVEL DRIP RIDGE	16:50	2:50	1:50
LIMITS STRUCTURAL SOIL	17:50	2:50	1:50
LANDSCAPE EDGE	18:50	2:50	1:50

**PERKINS EASTMAN**

**PROJECT:** REVERE HIGH SCHOOL

**DATE:** 08/20/2024

**OWNER:** CITY OF BIRMINGHAM

**OWNER PROJECT MANAGER:** JEFFREY W. HARRIS

**CONSTRUCTION MANAGER:** KENNETH L. HARRIS

**CLIENT:** REVERE HIGH SCHOOL

**PROJECT MANAGER:** JEFFREY W. HARRIS

**DESIGNER:** PERKINS EASTMAN

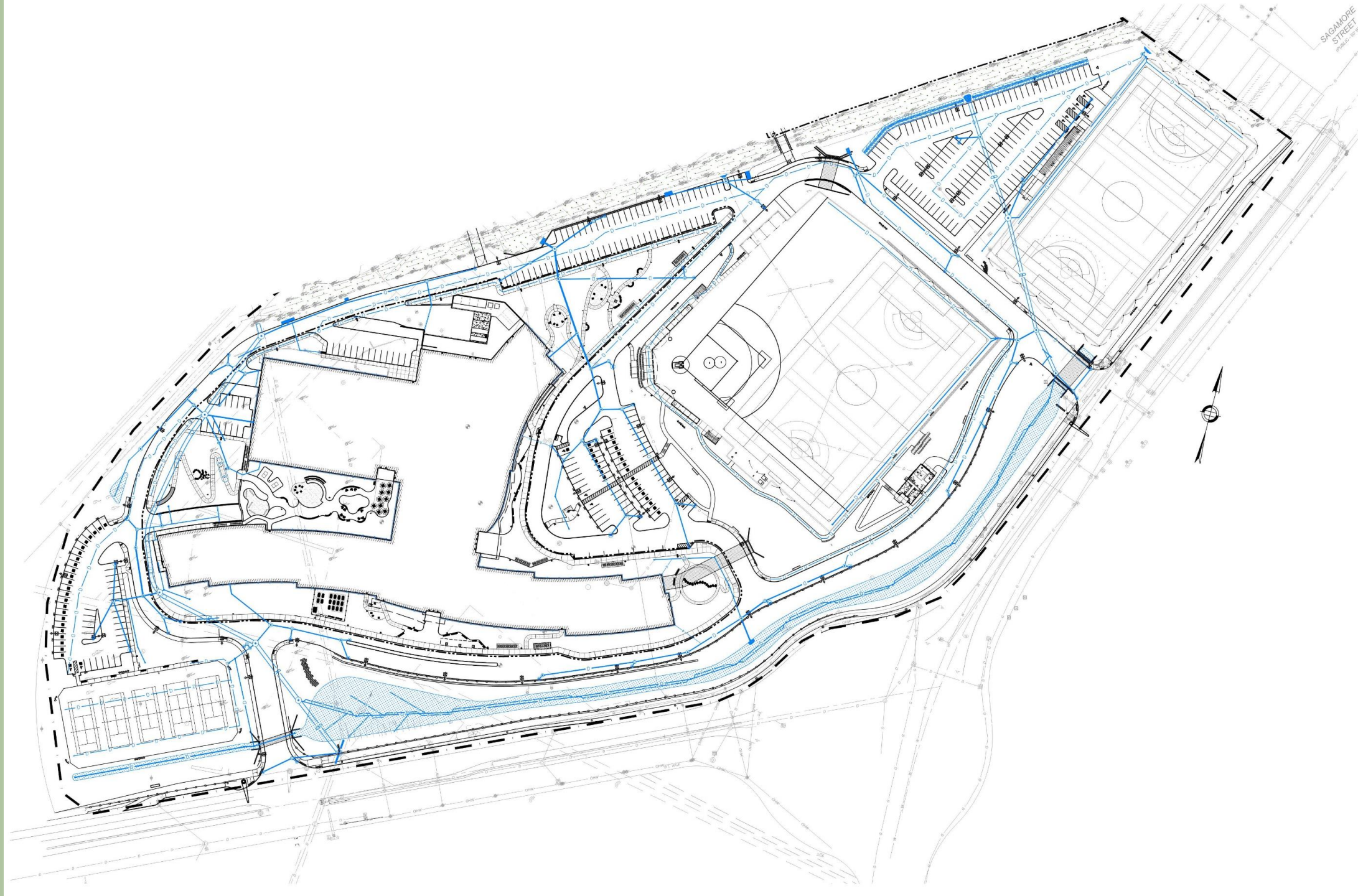
**SCALE:** 1" = 10'

**NOTICE OF INTENT SUBMISSION**

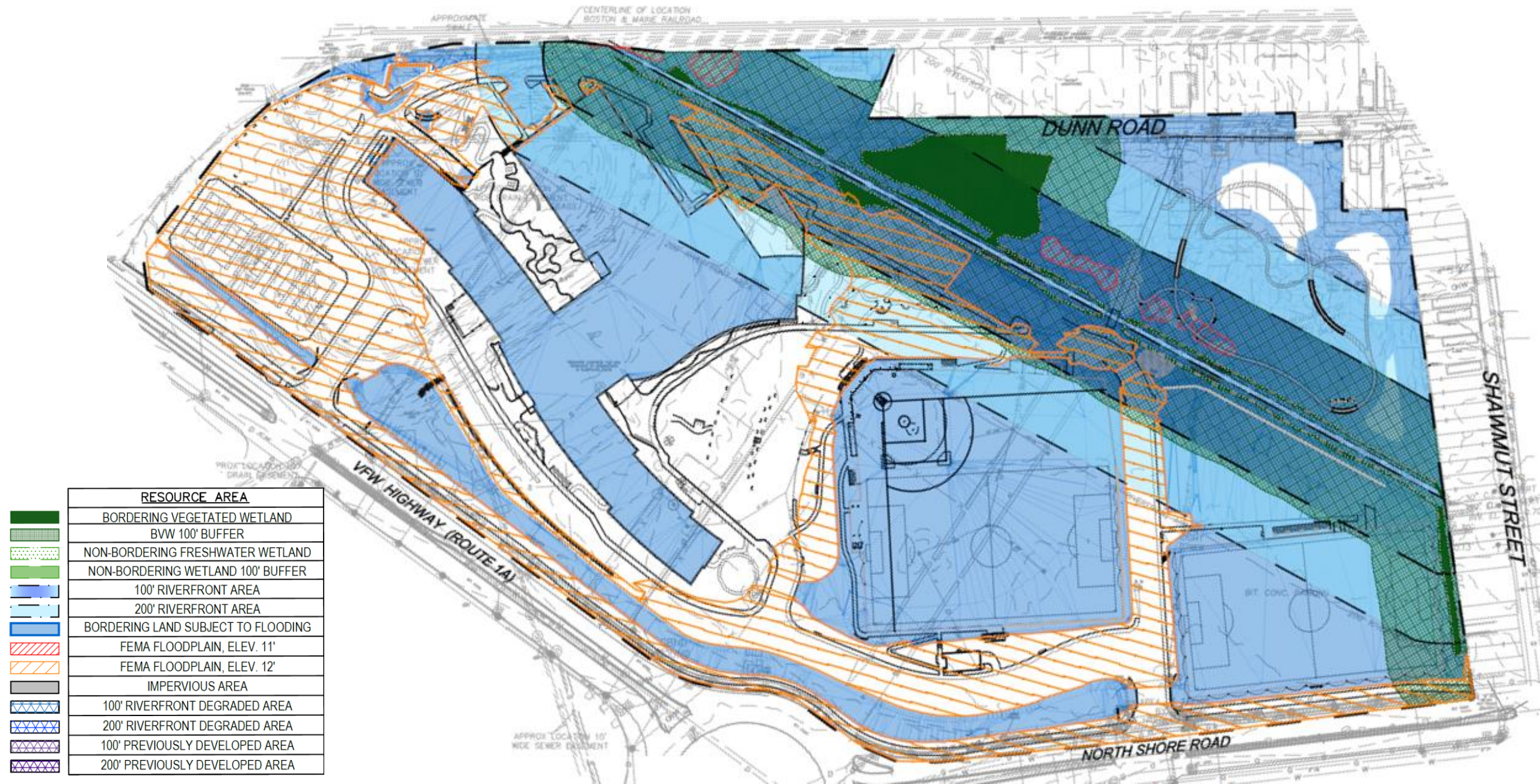
**L314**



# Stormwater Management Design

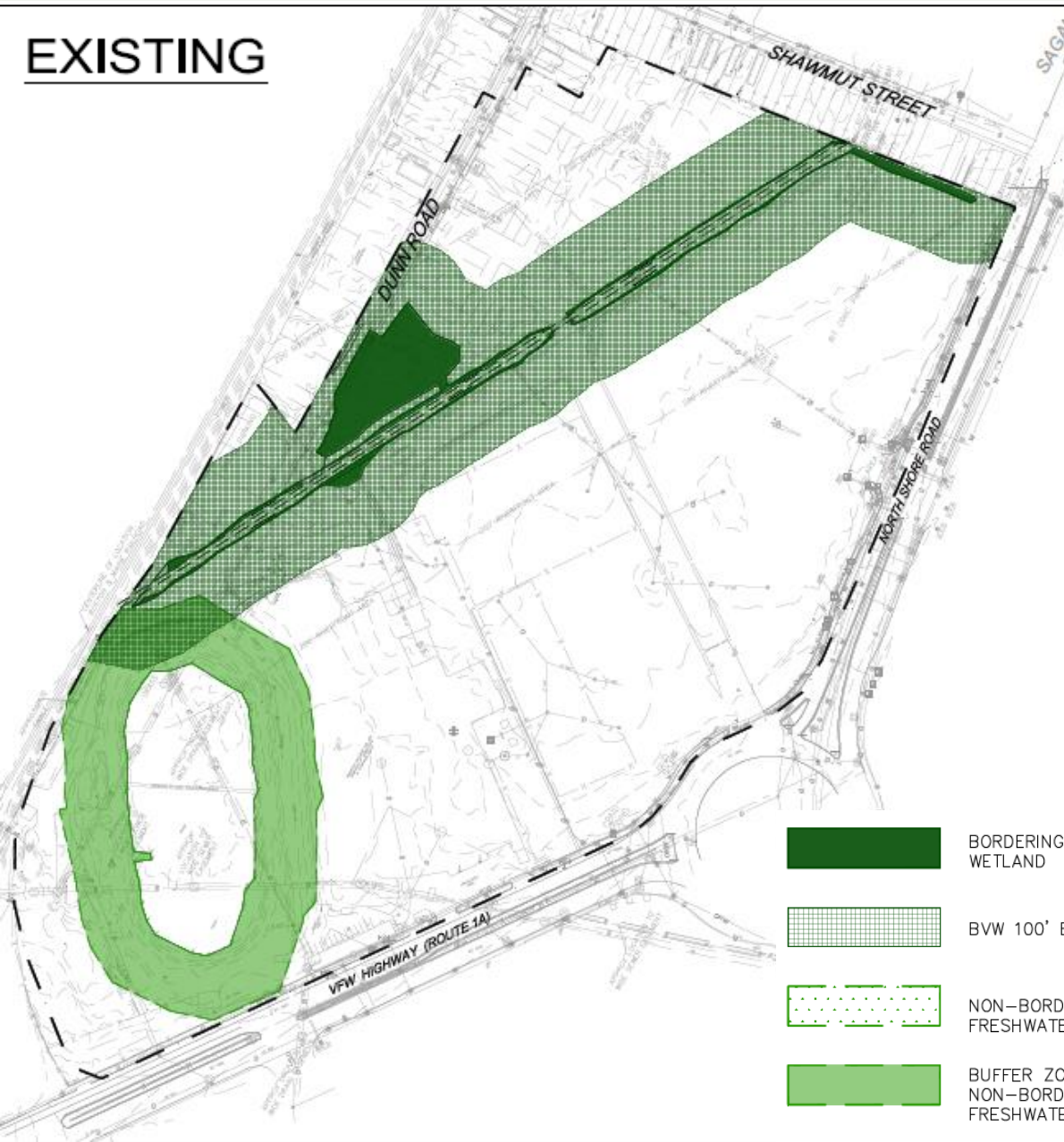


# Wetland Resource Area Impacts: Proposed Conditions

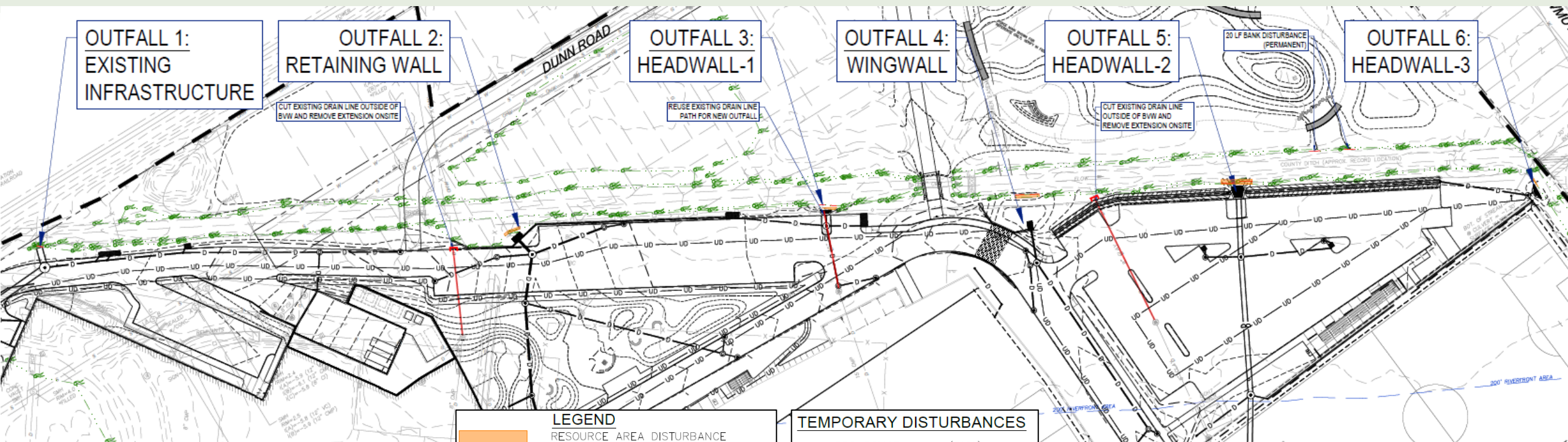


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# Buffer Zone and Non-Bordering Freshwater Wetland



# BVW and Bank Impacts



**OUTFALL 1:  
EXISTING  
INFRASTRUCTURE**

**OUTFALL 2:  
RETAINING WALL**

**OUTFALL 3:  
HEADWALL-1**

**OUTFALL 4:  
WINGWALL**

**OUTFALL 5:  
HEADWALL-2**

**OUTFALL 6:  
HEADWALL-3**

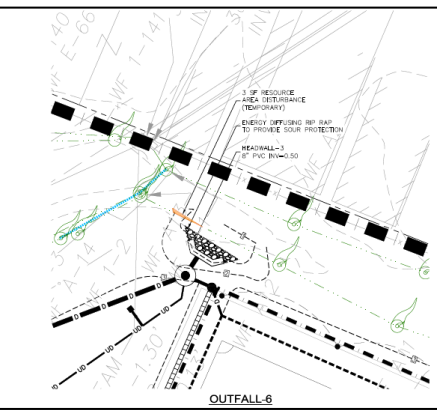
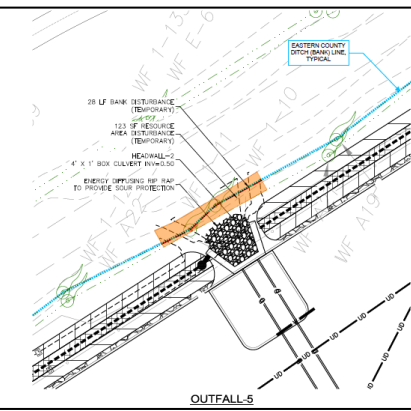
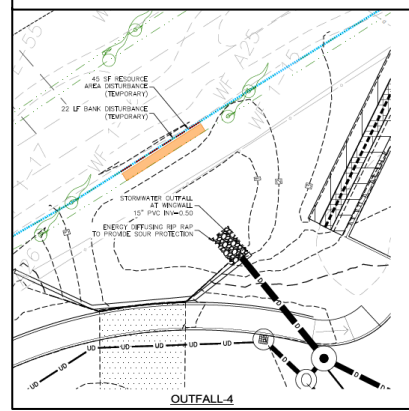
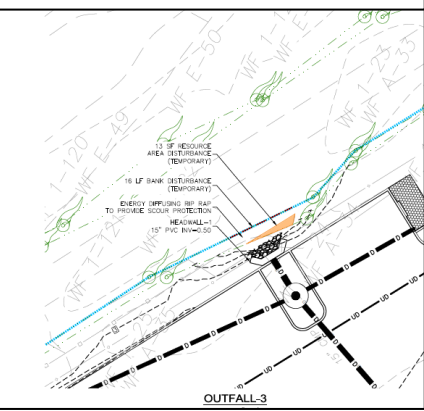
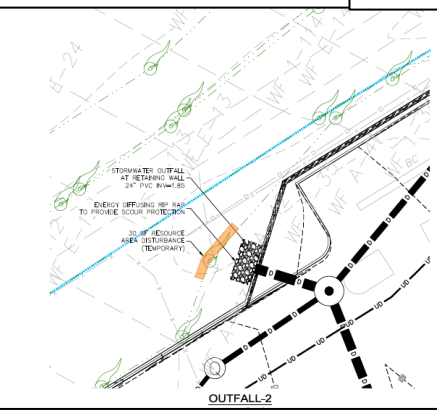
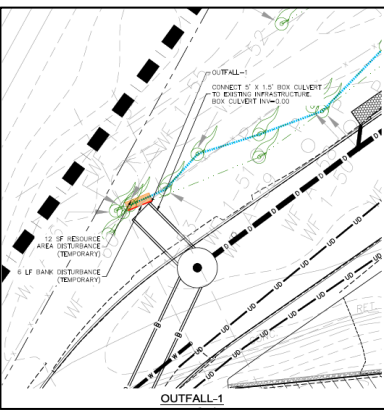
CUT EXISTING DRAIN LINE OUTSIDE OF BVW AND REMOVE EXTENSION ONSITE

REUSE EXISTING DRAIN LINE PATH FOR NEW OUTFALL

CUT EXISTING DRAIN LINE OUTSIDE OF BVW AND REMOVE EXTENSION ONSITE

LEGEND	
	RESOURCE AREA DISTURBANCE (TEMPORARY)
	RESOURCE AREA DISTURBANCE (PERMANENT)
	LINEAR BANK DISTURBANCE
	EASTERN COUNTRY DITCH (BANK) LINE

TEMPORARY DISTURBANCES	
226 SQUARE FEET (BVW)	
72 LINEAR FEET (BANK)	
PERMANENT DISTURBANCES	
0 SQUARE FEET (BVW)	
20 LINEAR FEET (BANK)	

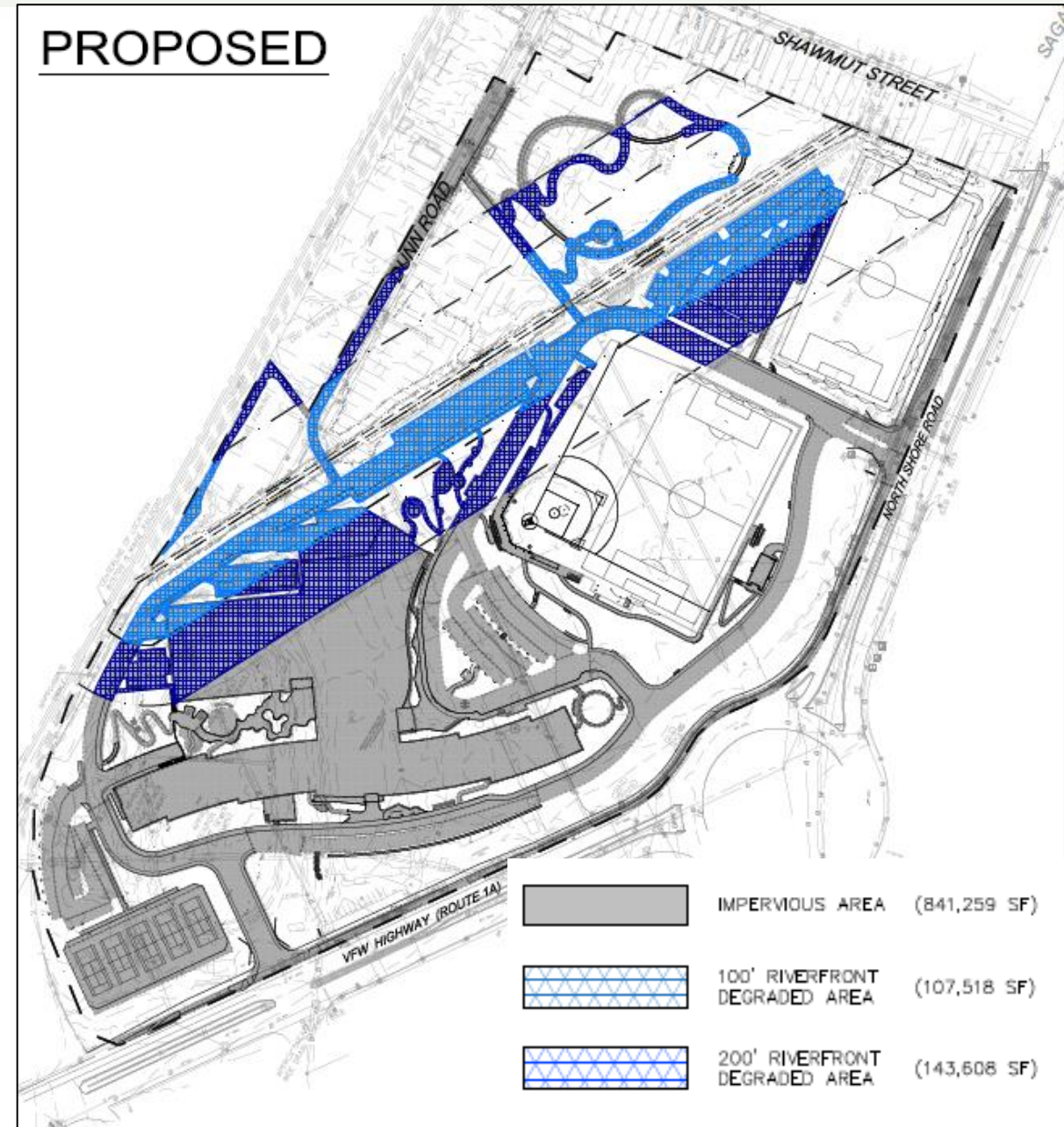


# Riverfront Area and Impervious Area Reduction

## EXISTING

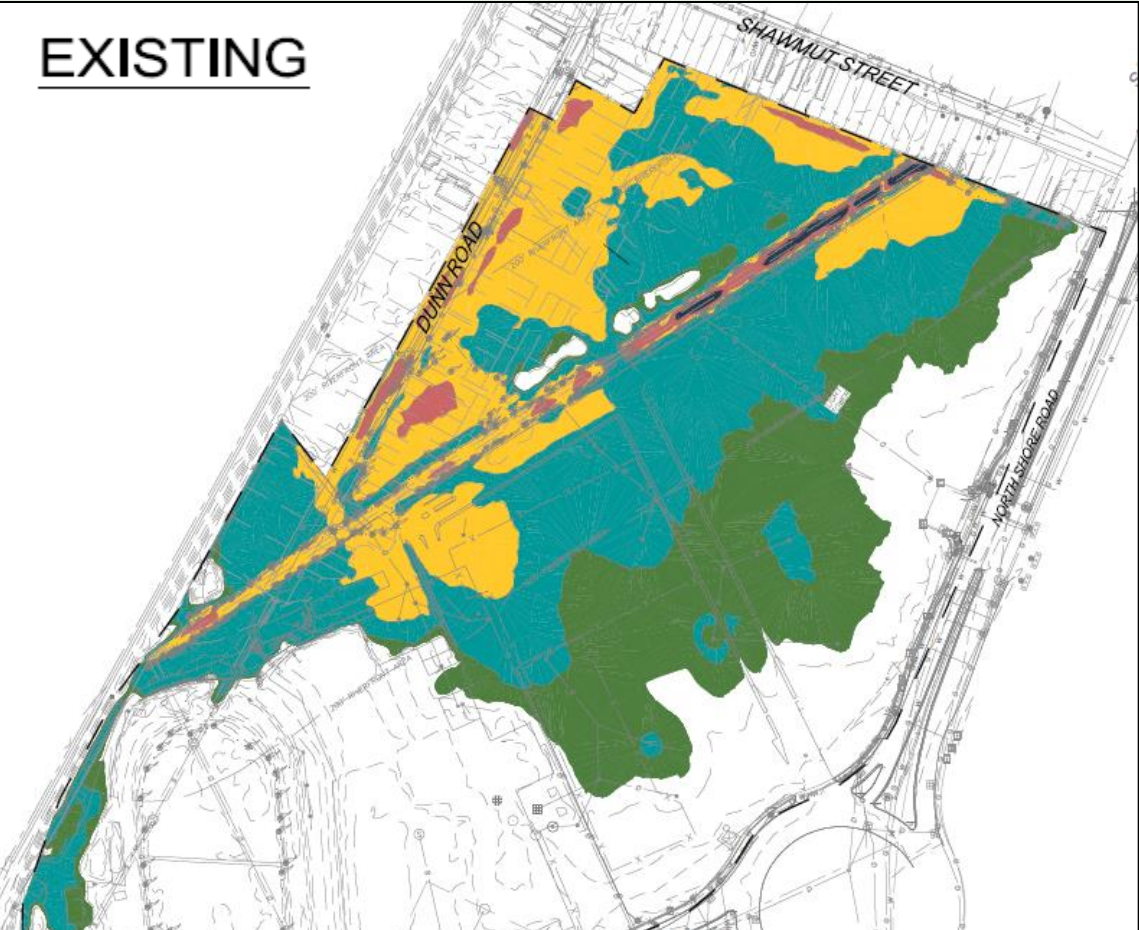


## PROPOSED



# Bordering Land Subject to Flooding and Compensatory Storage

EXISTING



PROPOSED



Compensatory Storage Analysis				
RANGE INTERVAL (FT)	COLOR	EXISTING STORAGE (CY)	PROPOSED STORAGE (CY)	EXCESS STORAGE CREATED (CY)
0.00 – 0.99	■	30.07	53.70	23.63
1.00 – 1.99	■	251.01	1436.26	1185.25
2.00 – 2.99	■	3621.66	3667.34	45.68
3.00 – 3.99	■	15467.16	15691.29	224.13
4.00 – 4.55	■	13603.98	17242.11	3638.10
		SUM = 32973.88	SUM = 38090.67	SUM = 5116.79

# Mitigation and Site Improvements

- Bank/BVW restoration
- Compensatory Flood Storage
- Stormwater Management
- Construction-period BMPs
- Contaminant Remediation
- Reduction of impervious area (6.55 acres)
- Increase in vegetated areas
- Invasive Species Removal and monitoring
- Open Space, community amenities, and community/public access
- Energy-efficient building
- EV charging stations
- Multi-use transportation
- Wildlife habitat improvement/education



# Thank You!

## Questions/Comments?

