CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

Planning Commission (CPC) Presentation for the Fire Training Facility Project

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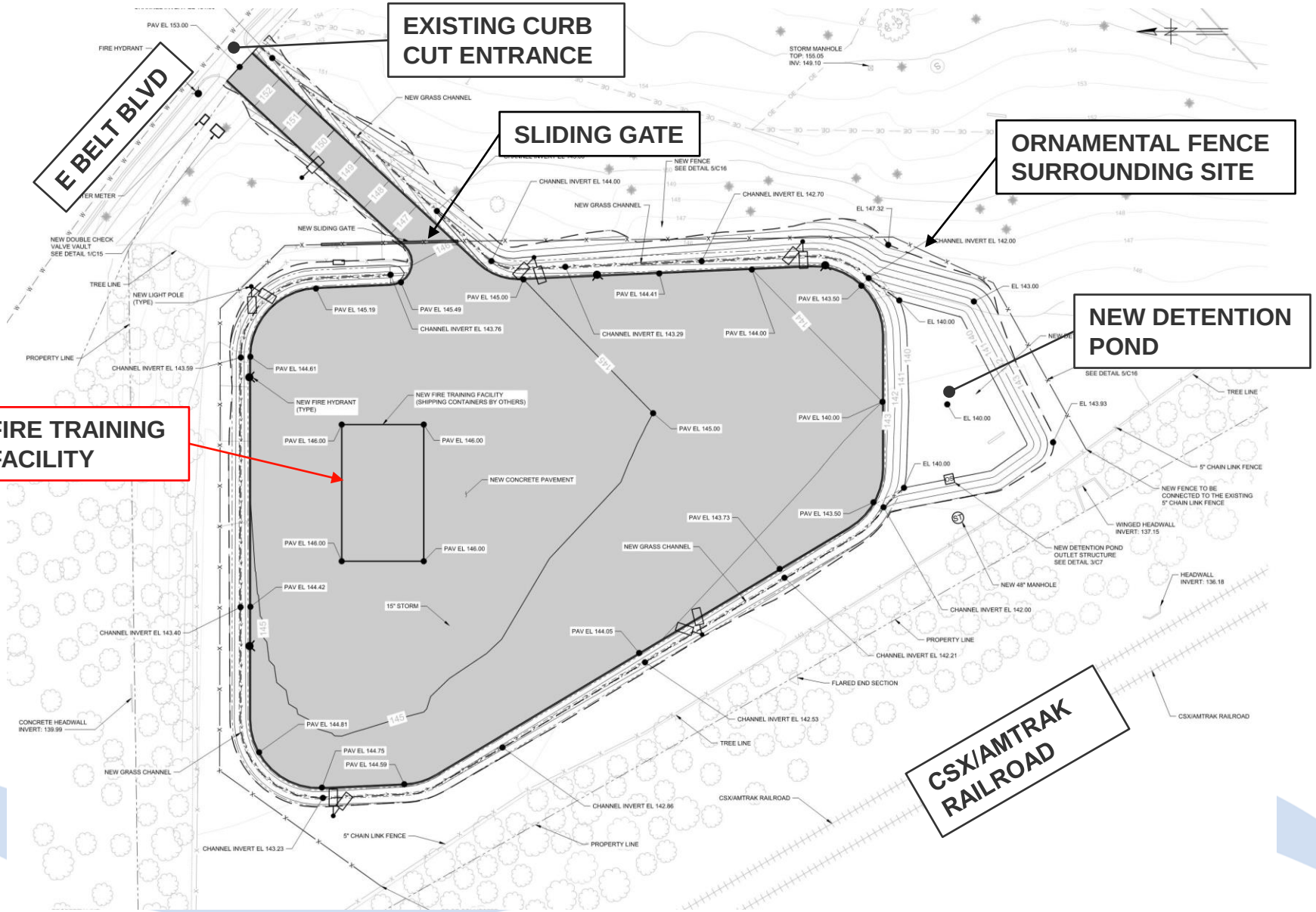
Greeley and Hansen
April 3, 2023

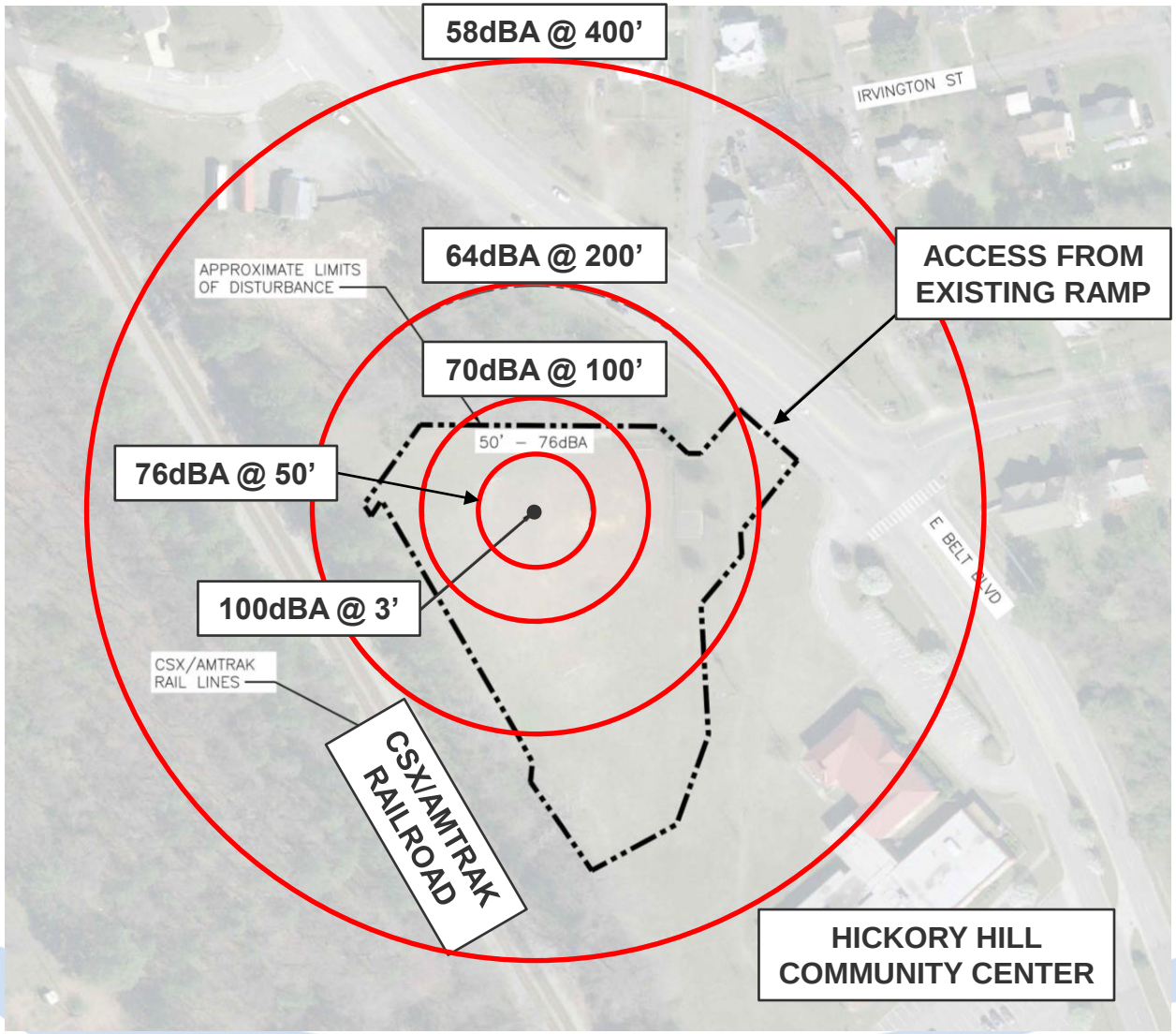
Background/Purpose

SITE LOCATION

Site Plan


EXISTING CURB CUT ENTRANCE
E BELT BLVD
SLIDING GATE
ORNAMENTAL FENCE SURROUNDING SITE
NEW DETENTION POND
FIRE TRAINING FACILITY
CSX/AMTRAK RAILROAD
PAV EL 153.00
FIRE HYDRANT
NEW GRASS CHANNEL
NEW SLIDING GATE
NEW DOUBLE CHECK VALVE VAULT SEE DETAIL 1/C15
TREE LINE
NEW LIGHT POLE (TYPE)
PROPERTY LINE
CHANNEL INVERT EL 143.59
PAV EL 144.61
NEW FIRE HYDRANT (TYPE)
NEW FIRE TRAINING FACILITY (SHIPPING CONTAINERS BY OTHERS)
PAV EL 146.00
NEW CONCRETE PAVEMENT
PAV EL 144.42
CHANNEL INVERT EL 143.40
CONCRETE HEADWALL INVERT: 139.99
PAV EL 144.81
PAV EL 144.75
PAV EL 144.59
NEW GRASS CHANNEL
CHANNEL INVERT EL 143.23
5" CHAIN LINK FENCE
PROPERTY LINE
CHANNEL INVERT EL 142.86
CSX/AMTRAK RAILROAD
TREE LINE
CHANNEL INVERT EL 142.53
FLARED END SECTION
CHANNEL INVERT EL 142.21
PROPERTY LINE
CHANNEL INVERT EL 142.00
NEW 48" MANHOLE
NEW DETENTION POND OUTLET STRUCTURE SEE DETAIL 3/C7
WINGED HEADWALL INVERT: 137.15
HEADWALL INVERT: 136.18
NEW FENCE TO BE CONNECTED TO THE EXISTING 5" CHAIN LINK FENCE
5" CHAIN LINK FENCE
TREE LINE
SEE DETAIL 5/C16
EL 140.00
EL 143.93
EL 143.00
PAV EL 143.50
PAV EL 140.00
PAV EL 143.73
PAV EL 144.05
PAV EL 145.00
PAV EL 144.41
PAV EL 144.00
CHANNEL INVERT EL 143.29
CHANNEL INVERT EL 143.76
PAV EL 145.49
PAV EL 145.19
PAV EL 145.00
CHANNEL INVERT EL 142.70
CHANNEL INVERT EL 144.00
NEW FENCE SEE DETAIL 5/C16
EL 147.32
CHANNEL INVERT EL 142.00
STORM MANHOLE TOP: 155.05 INV: 149.10
15" STORM
PAV EL 146.00
PAV EL 146.00
PAV EL 146.00
PAV EL 146.00

Sound Distance Attenuation



- 30dBA - WHISPER/LEAVES RUSTLING
- 30-50dBA - AVERAGE ROOM NOISE
- 60dBA - BACKGROUND MUSIC
- 70dBA - AVERAGE OFFICE NOISE
- 75dBA - LANDSCAPING EQUIPMENT (AS HEARD FROM INSIDE HOUSE)
- 80dBA - INSIDE AN AIRPLANE
- 85dBA - NOISY RESTAURANT
- 90dBA - HAIRDRYER
- 95dBA - PRO-SPORTS GAME/CAR HORN @16 FEET
- 100dBA - MOTORCYCLE/LEAF BLOWER
- **96-110dBA – TRAIN HORN**
- 105-110dBA - NIGHTCLUBS/BARS/GAS-POWERED LEAF BLOWER

SOUND LEVELS DO NOT TAKE INTO ACCOUNT NATURAL SOUND DAMPENING FEATURES SUCH AS TREES AND HILLS

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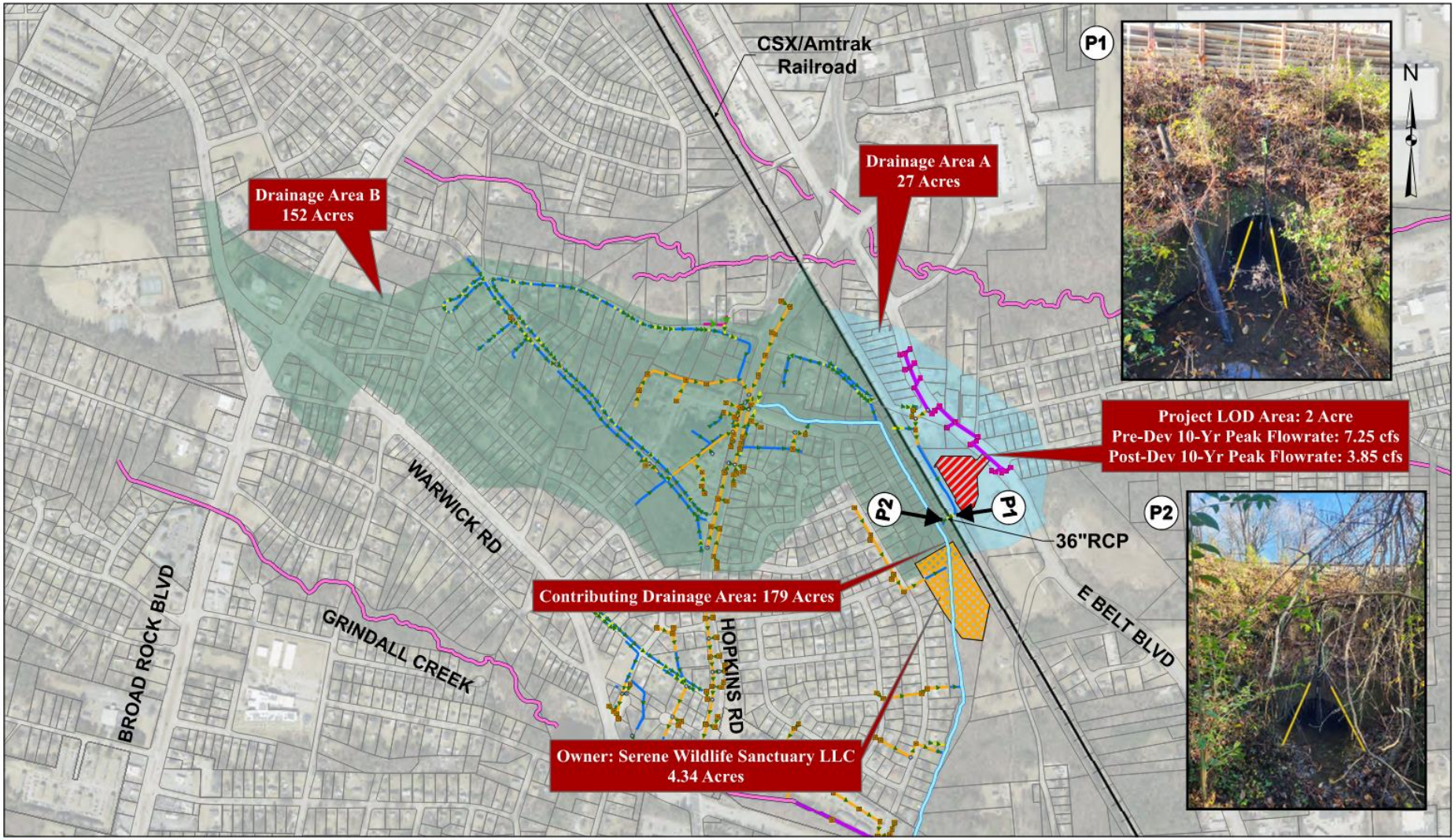
Storm Drainage Plan



Environ-Civil Engineering, Ltd.
Engineers • Scientists • Construction Managers

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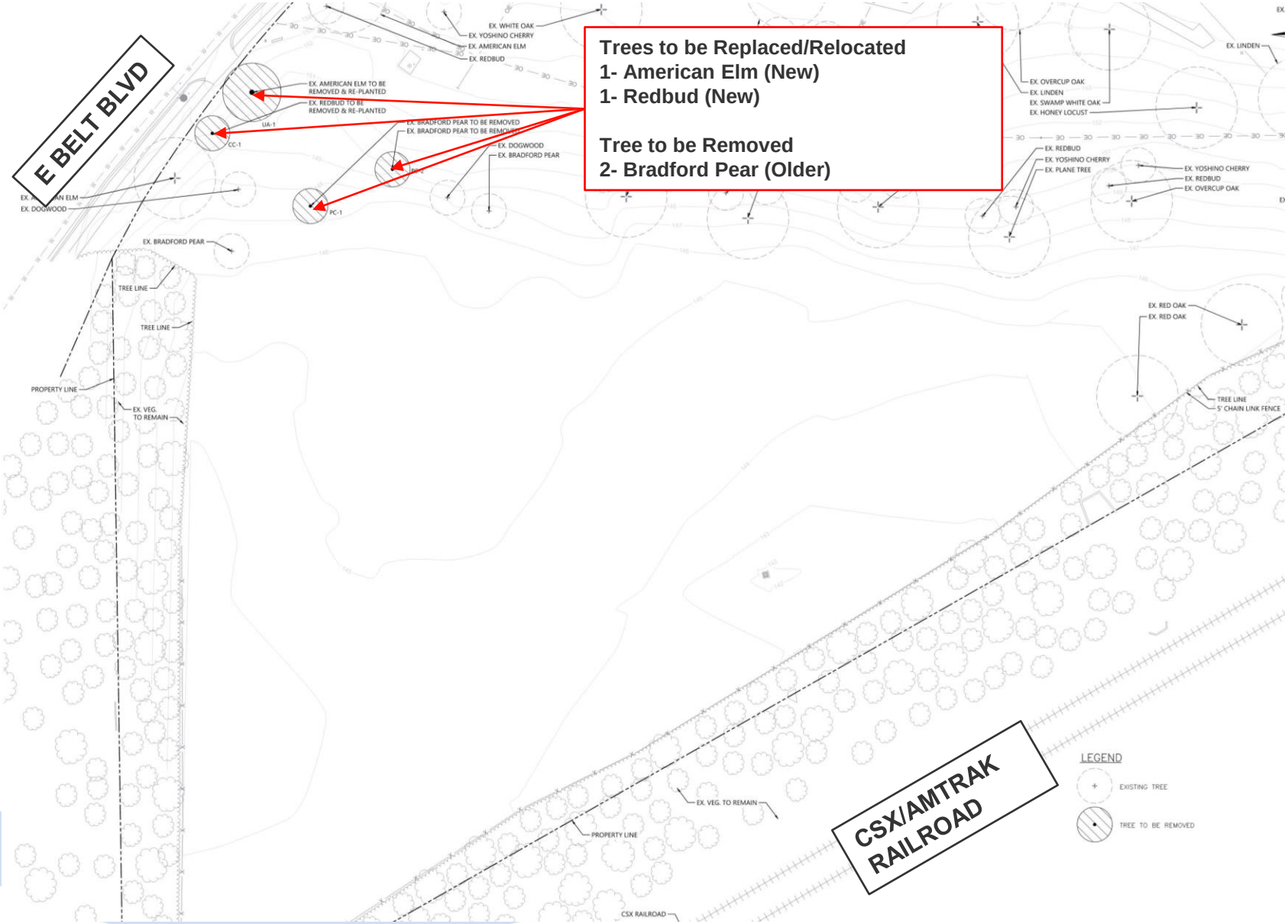
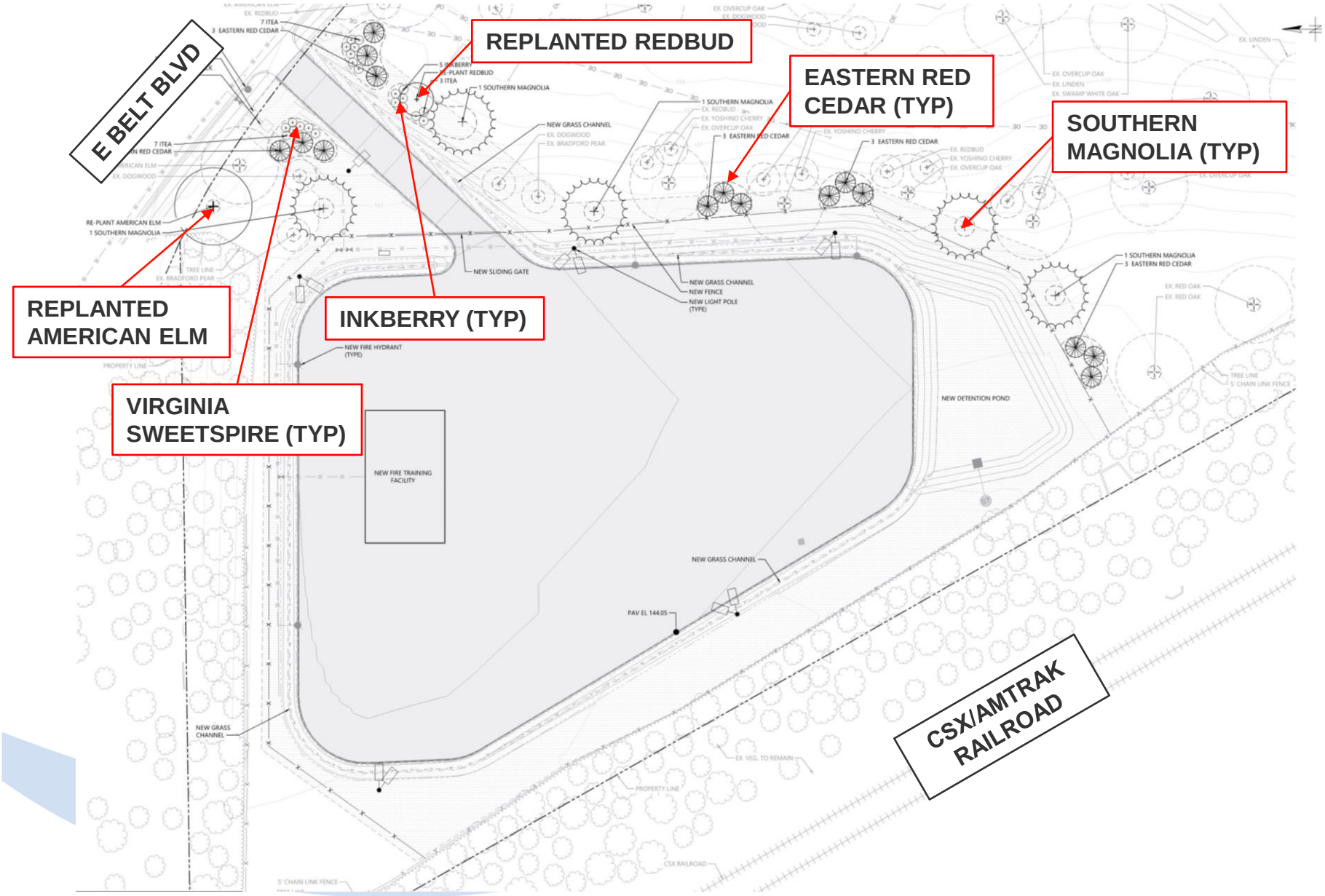
City of Richmond, Virginia Department of Public Utilities
Richmond Fire Department Training Facility
Overall Map

Legend
Stream, Tributary, Drop Inlet, Manhole, Pipe, Culvert, Channel, Unknown Storm, LOD, Parcel

Tree Removal Plan

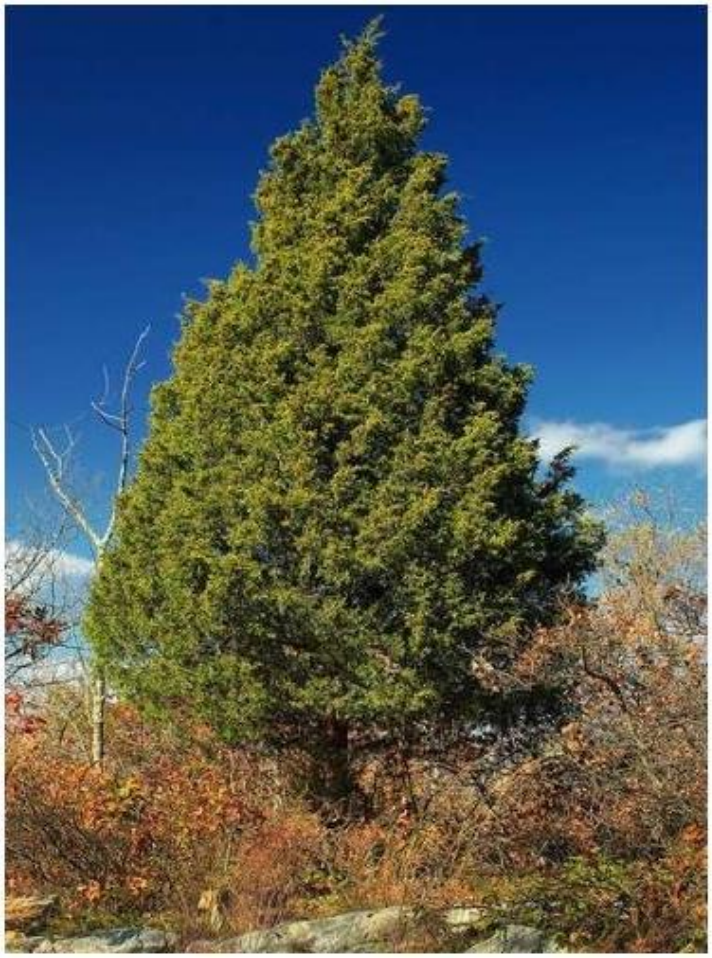


Landscaping Plan



Proposed Trees

Southern Magnolia



Eastern Red Cedar

Proposed Plants

Virginia Sweetspire

Inkberry

Building Rendering

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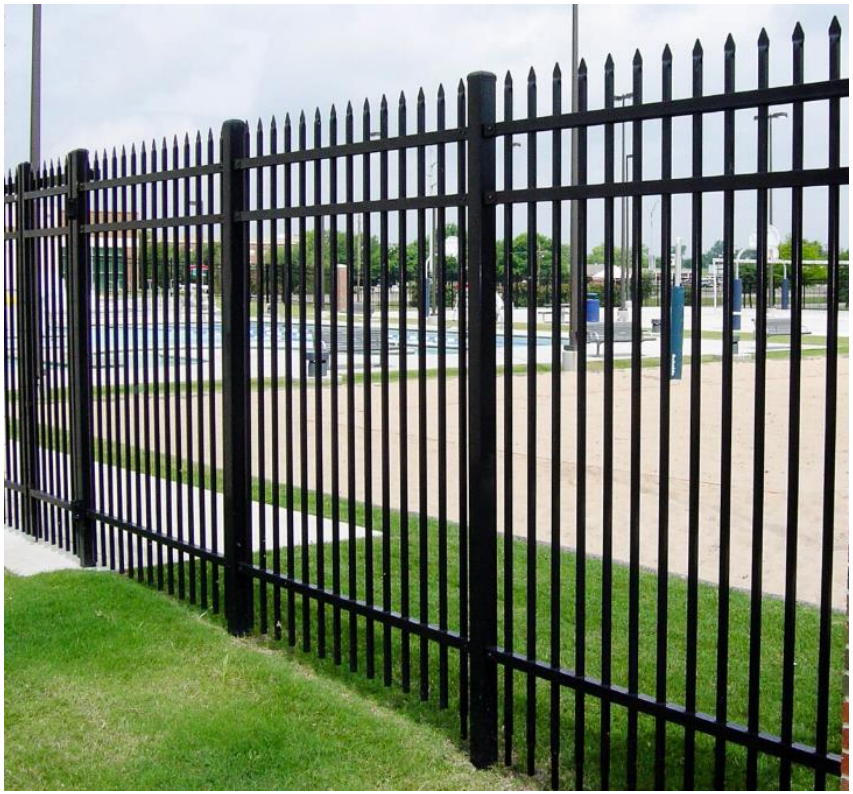
Existing Site Condition

Preliminary Site Plan Rendering

Site Plan Rendering

Fence Material



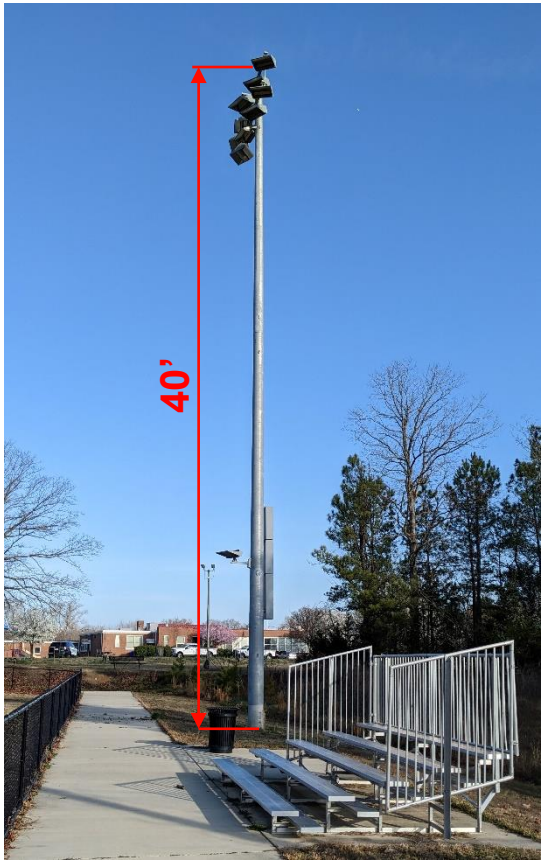
- Ameristar Aegis II Fence System
- Used on previous City of Richmond Jobs
  - Byrd Park Tank Rehabilitation
- Wide range use in industrial and security settings
- Fence System is compatible with TransPort Traverse II Gate

Gate System

- TransPort Traverse II Gate
- Wide range use in industrial and security settings
- Fence System is compatible with Aegis II Fence System

Site Lighting

Proposed Lighting



Existing Ball Field Lights

- Lighting is dark-sky compliant
- Lighting will only be used in the early evening and never past 9:00 PM
- New lights will be attached to 25’ tall light poles that are shorter than existing 40’ tall ball field lights