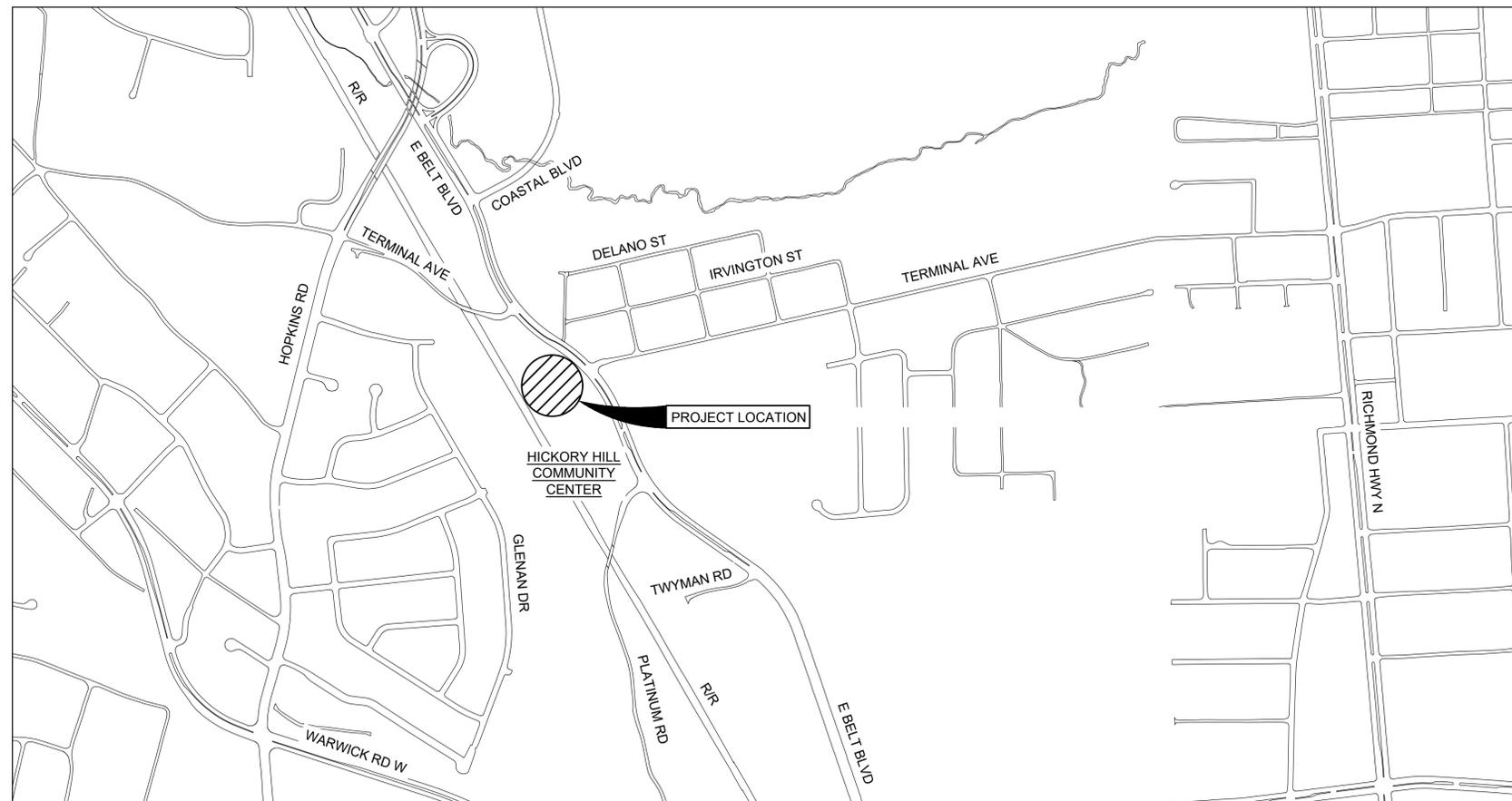


# CITY OF RICHMOND, VIRGINIA DEPARTMENT OF PUBLIC WORKS

# FIRE DEPARTMENT TRAINING FACILITY PROJECT



VICINITY MAP



## GREELEY AND HANSEN

9020 STONY POINT PARKWAY, SUITE 275  
RICHMOND, VIRGINIA 23235

IN ASSOCIATION WITH

**ECE** **Environ-Civil Engineering, Ltd.**  
 Engineers • Scientists • Construction Managers  
 2108 W Laburnum Avenue, Suite 250 Richmond, VA 23227

**DANIELS & ASSOCIATES, P.C.**  
 Consulting Engineers  
 808 Moorefield Park Drive, Suite 105  
 Richmond, Virginia 23236

**PROJECT ADDRESS**

3000 EAST BELT BOULEVARD  
RICHMOND, VA 23234  
PARCEL ID: C0090612020

**OWNER CONTACT**

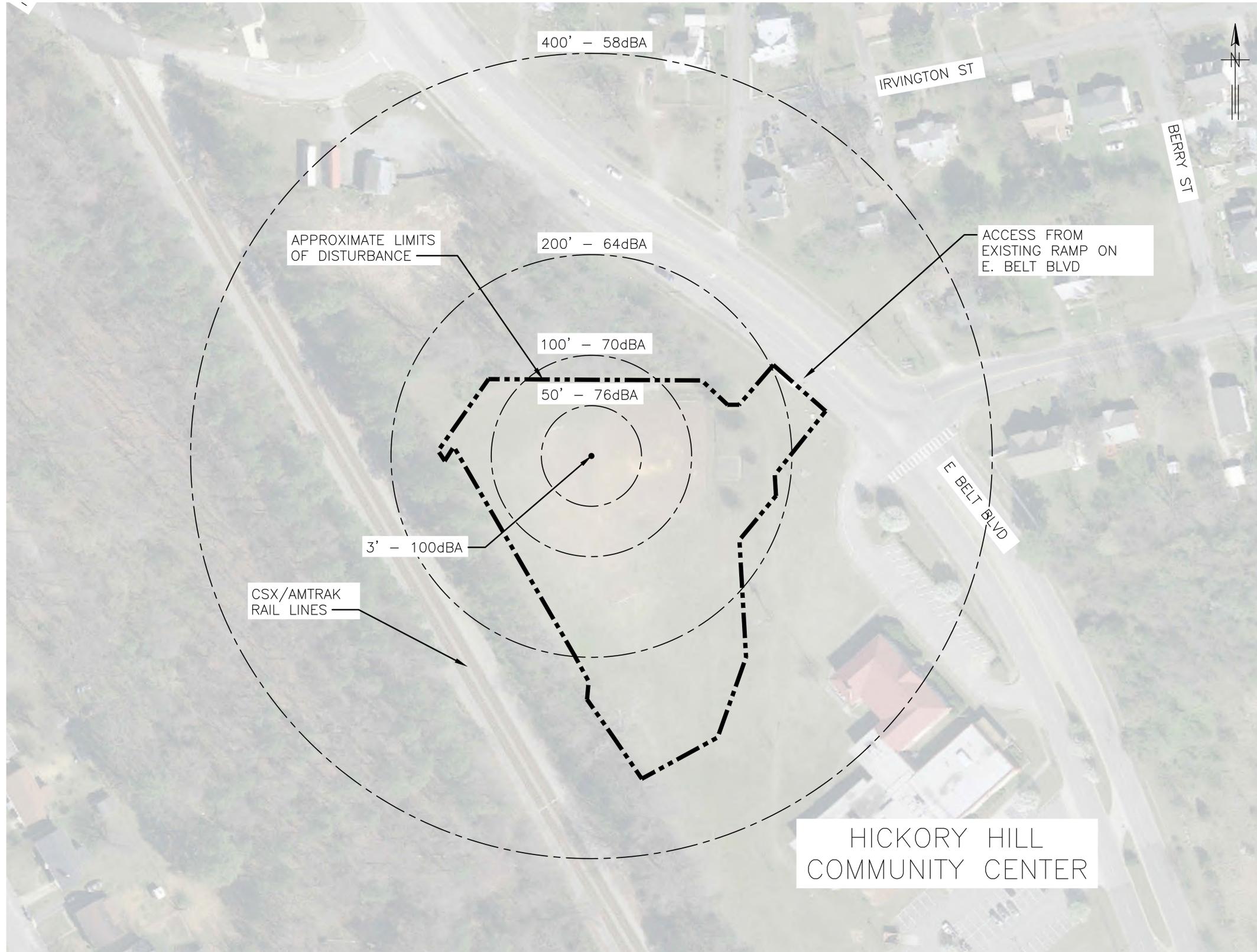
LOUIS D. GOODE  
CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS  
900 EAST BROAD STREET - RM. 602  
RICHMOND, VA 23219  
PHONE: (804) 646-7531

**DPU CONTACT**

LOUIS D. GOODE  
CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS  
900 EAST BROAD STREET - RM. 602  
RICHMOND, VA 23219  
PHONE: (804) 646-7531

JANUARY 2023

**100% SUBMITTAL**  
NOT FOR CONSTRUCTION



**LEGEND**

- LIMITS OF DISTURBANCE
- SOUND LEVEL AT VARIABLE DISTANCE FROM SOURCE

**NOTES:**

1. SOUND-DISTANCE ATTENUATION CALCULATION BASED ON INVERSE SQUARE LAW.
2. NOISE LEVEL CALCULATIONS ASSUME CLEAR VISIBILITY FROM THE SOURCE OF THE NOISE AND DO NOT ACCOUNT FOR EXISTING AND PROPOSED SOUND DAMPENING SITE FEATURES (TREES, ELEVATION, FENCES, HOUSES, ETC.). CALCULATED NOISE LEVELS ARE NOT INDICATIVE OF IN-SITU CONDITIONS AND ACTUAL NOISE LEVELS WILL BE DAMPENED BY EXISTING AND PROPOSED SITE FEATURES.
3. TYPICAL NOISE LEVELS:
  - 30dBA - WHISPER/LEAVES RUSTLING
  - 30-50dBA - AVERAGE ROOM NOISE
  - 60dBA - BACKGROUND MUSIC
  - 70dBA - AVERAGE OFFICE NOISE
  - 75dBA - LANDSCAPING EQUIPMENT (INSIDE HOUSE)
  - 80dBA - INSIDE AN AIRPLANE
  - 85dBA - NOISY RESTAURANT
  - 90dBA - HAIRDRYER
  - 95dBA - PRO-SPORTS GAME/CAR HORN @16 FEET
  - 100dBA - MOTORCYCLE/LEAF BLOWER
  - 105-110dBA - NIGHTCLUBS/BARS/GAS-POWERED LEAF BLOWER

**AERIAL PLAN**  
SCALE: 1" = 100'

**EC** Environ-Civil Engineering, Ltd.  
Engineers • Scientists • Construction Managers  
2108 W Laburnum Avenue, Suite 250 Richmond, VA 23227

**GREELEY AND HANSEN**  
9020 STONY POINT PARKWAY, SUITE 275  
RICHMOND, VIRGINIA 23235

DESIGNED	XXX
DRAWN	XXX
CHECKED	XXX
APPROVED	

NO.	DATE	APPD	REVISION DESCRIPTION

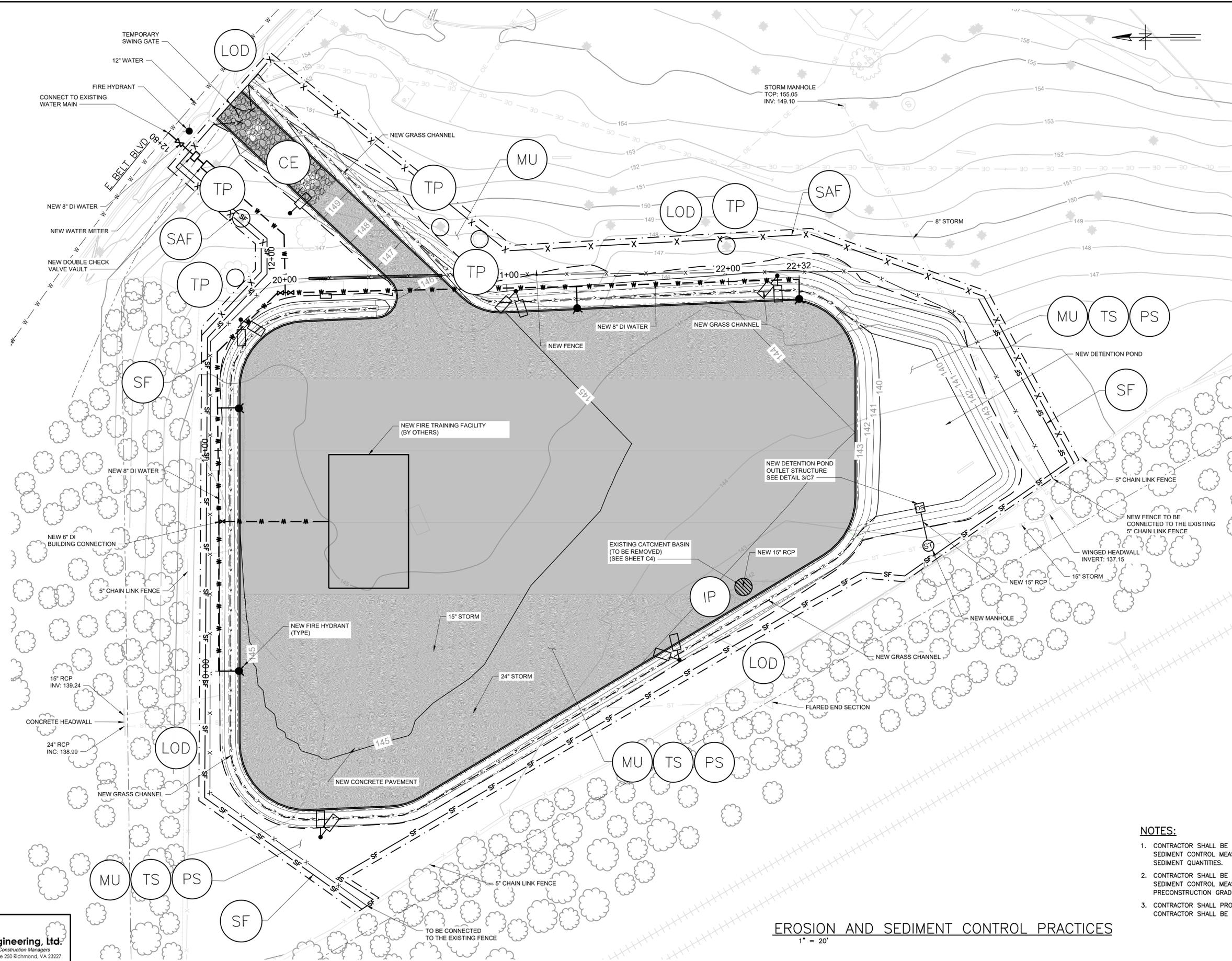


CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES  
RICHMOND FIRE DEPARTMENT  
TRAINING FACILITY



CIVIL  
SOUND-DISTANCE ATTENUATION

PROJECT NO.:	0218A-09
DWG:	<b>C3</b>
SHEET:	5 OF 25
DATE:	JANUARY 2023
REV:	0



**NOTES:**

1. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES. REFER TO DWG C8 FOR EROSION AND SEDIMENT QUANTITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION AND SEDIMENT CONTROL MEASURES AND RESTORING AREAS TO PRECONSTRUCTION GRADE UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE SITE SAFETY FENCE AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY.

**EROSION AND SEDIMENT CONTROL PRACTICES**  
1" = 20'

**EC** Environ-Civil Engineering, Ltd.  
Engineers • Scientists • Construction Managers  
2108 W Laburnum Avenue, Suite 250 Richmond, VA 23227

**GREELEY AND HANSEN**  
9020 STONY POINT PARKWAY, SUITE 275  
RICHMOND, VIRGINIA 23235

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CHECKED	XXX				
APPROVED					
NO.	DATE	APPD	REVISION	DESCRIPTION	

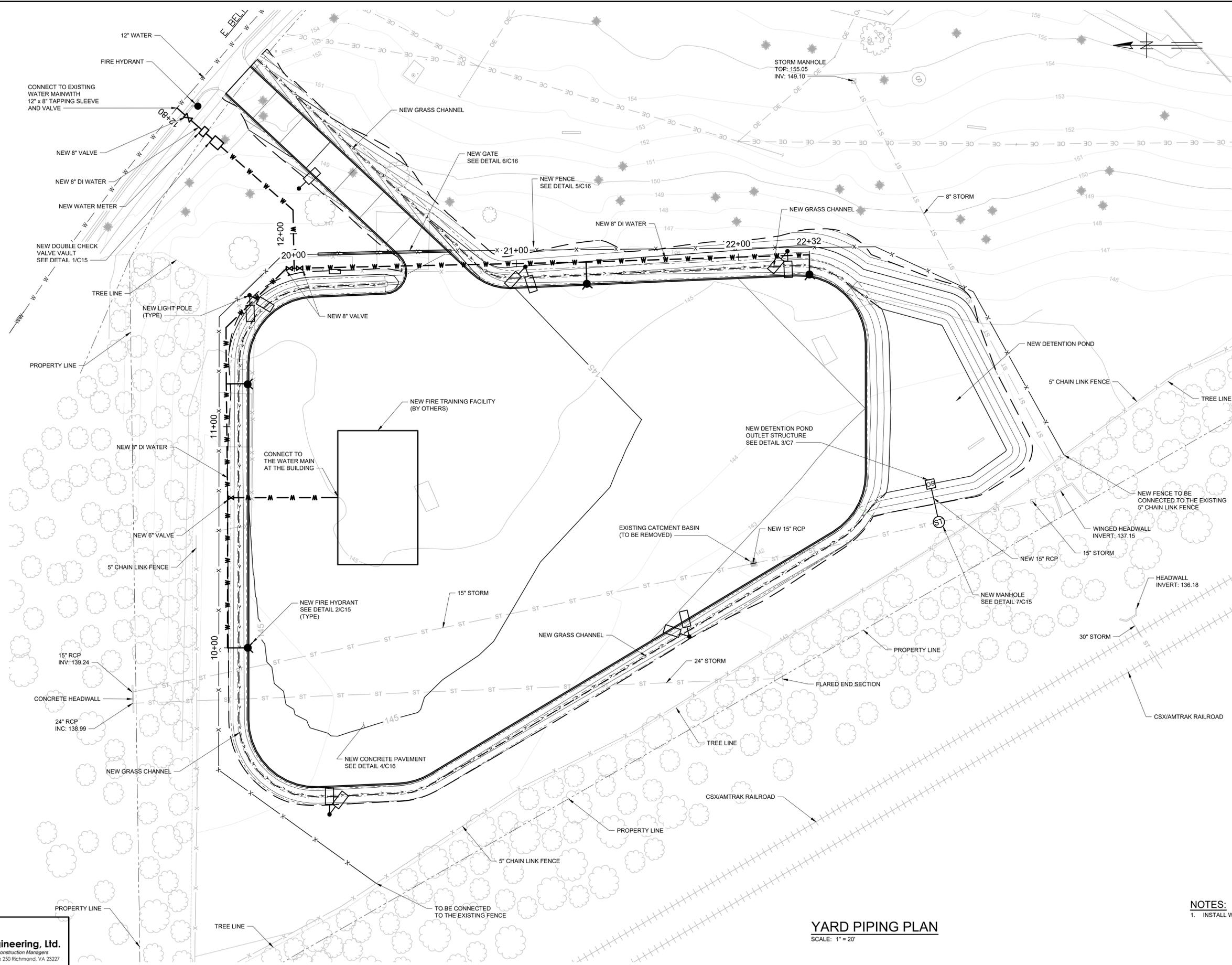


CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES  
RICHMOND FIRE DEPARTMENT  
TRAINING FACILITY



CIVIL  
EROSION & SEDIMENT CONTROL PLAN

PROJECT NO.:	0218A-09
DWG.:	<b>C9</b>
SHEET:	11 OF 25
DATE:	JANUARY 2023
REV.:	0



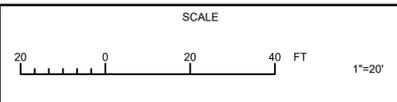
**NOTES:**  
 1. INSTALL WATER MAIN 3.5' (MIN) BELOW FINISHED GRADE

**YARD PIPING PLAN**  
 SCALE: 1" = 20'

**EC** Environ-Civil Engineering, Ltd.  
 Engineers • Scientists • Construction Managers  
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**GREELEY AND HANSEN**  
 9020 STONY POINT PARKWAY, SUITE 275  
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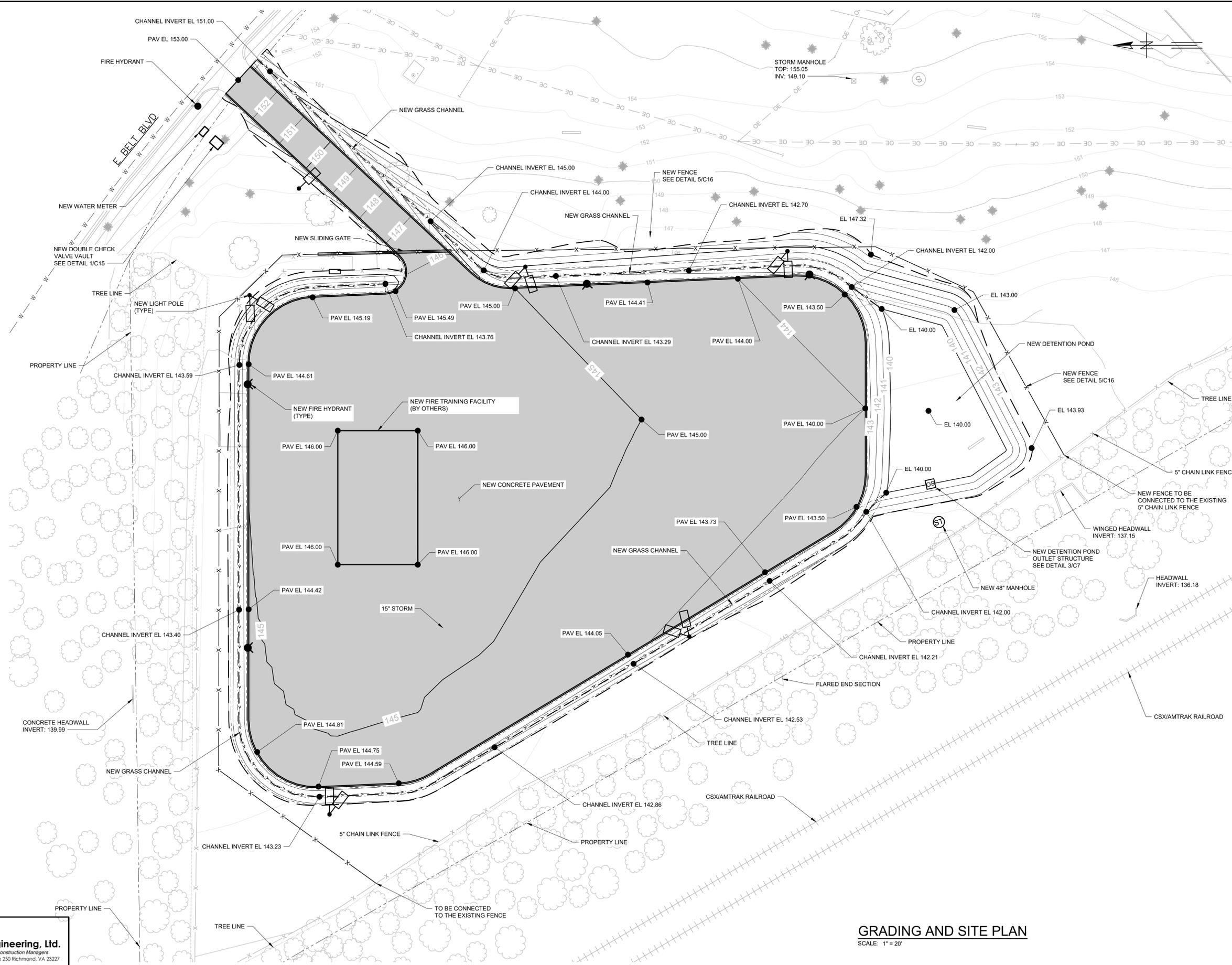
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DRAWN	XXX				
CHECKED	XXX				
APPROVED					
NO.	DATE	APPD	REVISION DESCRIPTION		



CITY OF RICHMOND, VIRGINIA  
 DEPARTMENT OF PUBLIC UTILITIES  
 RICHMOND FIRE DEPARTMENT  
 TRAINING FACILITY



CIVIL	PROJECT NO.: 0218A-09
CIVIL YARD PIPING PLAN	DWG: <b>C12</b>
	SHEET: 14 OF 25
	DATE: JANUARY 2023 REV: 0



**GRADING AND SITE PLAN**  
SCALE: 1" = 20'

**EC** **Environ-Civil Engineering, Ltd.**  
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**GREELEY AND HANSEN**  
9020 STONY POINT PARKWAY, SUITE 275  
RICHMOND, VIRGINIA 23235

DESIGNED	XXX
DRAWN	XXX
CHECKED	XXX
APPROVED	

NO.	DATE	APPD	REVISION DESCRIPTION

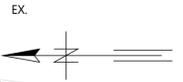
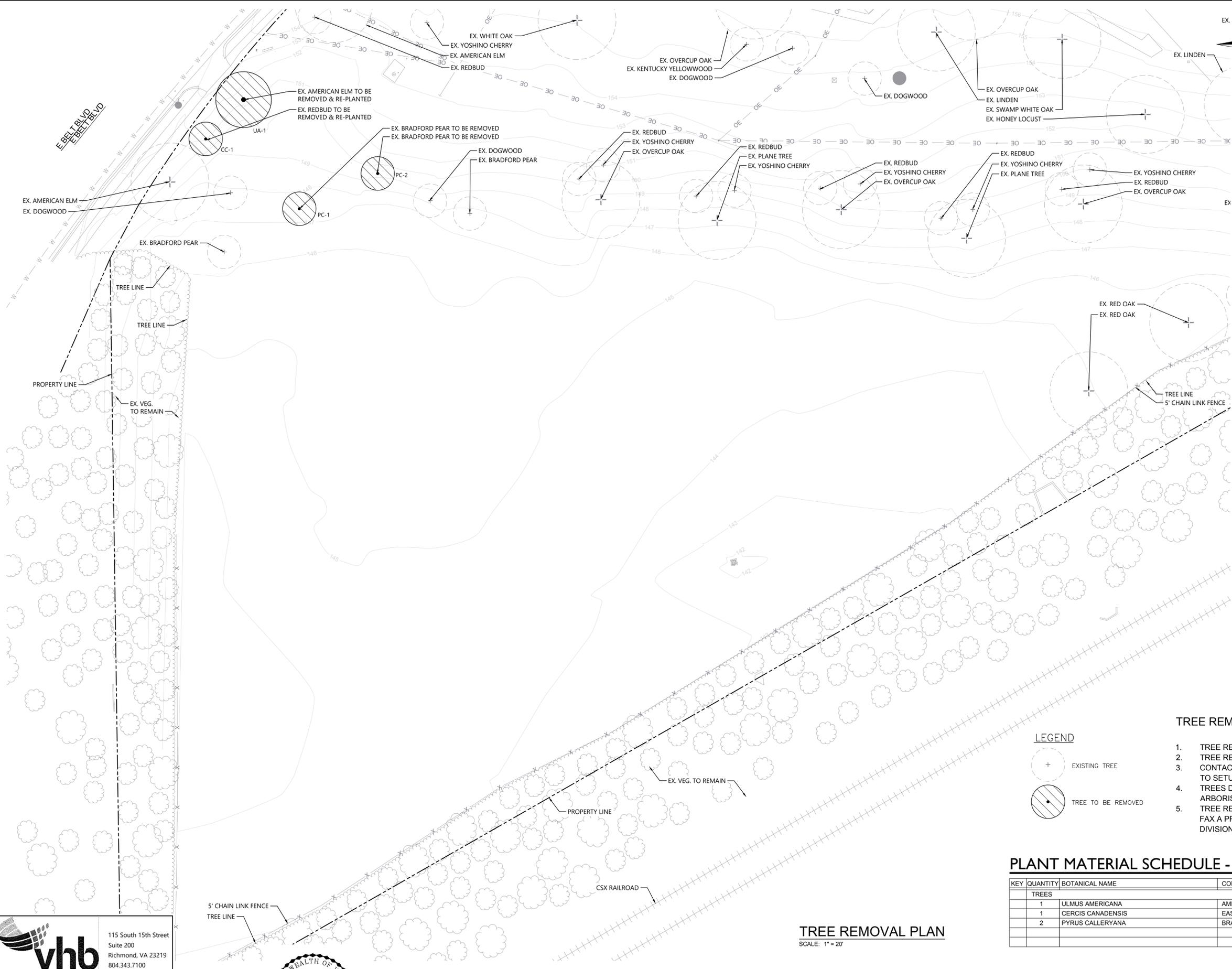


CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES  
**RICHMOND FIRE DEPARTMENT  
TRAINING FACILITY**



CIVIL  
CIVIL YARD GRADING PLAN

PROJECT NO.:	0218A-09
DWG:	<b>C13</b>
SHEET:	15 OF 25
DATE:	JANUARY 2023
REV:	0



**LEGEND**

- EXISTING TREE
- TREE TO BE REMOVED

**TREE REMOVAL NOTES:**

1. TREE REMOVAL EQUALS 12" DBH.
2. TREE REPLACEMENT TO BE ADDRESSED AT THE END OF CONSTRUCTION.
3. CONTACT URBAN FORESTRY AT 804-646-7000 PRIOR TO CONSTRUCTION TO SETUP A PRE-CONSTRUCTION MEETING.
4. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED BY A CERTIFIED ARBORIST.
5. TREE REMOVAL CONTRACTOR SHALL HAVE THEIR INSURANCE COMPANY FAX A PROOF OF INSURANCE FORM DIRECTLY TO THE URBAN FORESTRY DIVISION AT 804-646-3087.

**PLANT MATERIAL SCHEDULE - TREES TO BE REMOVED**

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	CALIPER	REMARKS
<b>TREES</b>					
	1	ULMUS AMERICANA	AMERICAN ELM	1-1/2"	SAVE & RE-PLANT PER LANDSCAPE PLAN
	1	CERCIS CANADENSIS	EASTERN REDBUD	1-1/2"	SAVE & RE-PLANT PER LANDSCAPE PLAN
	2	PYRUS CALLERYANA	BRADFORD PEAR	8"	

**TREE REMOVAL PLAN**

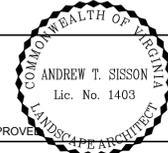
SCALE: 1" = 20'



**vhb**  
 115 South 15th Street  
 Suite 200  
 Richmond, VA 23219  
 804.343.7100

**GREELEY AND HANSEN**  
 9020 STONY POINT PARKWAY, SUITE 275  
 RICHMOND, VIRGINIA 23235

DESIGNED EGG  
 DRAWN EGG  
 CHECKED ATS



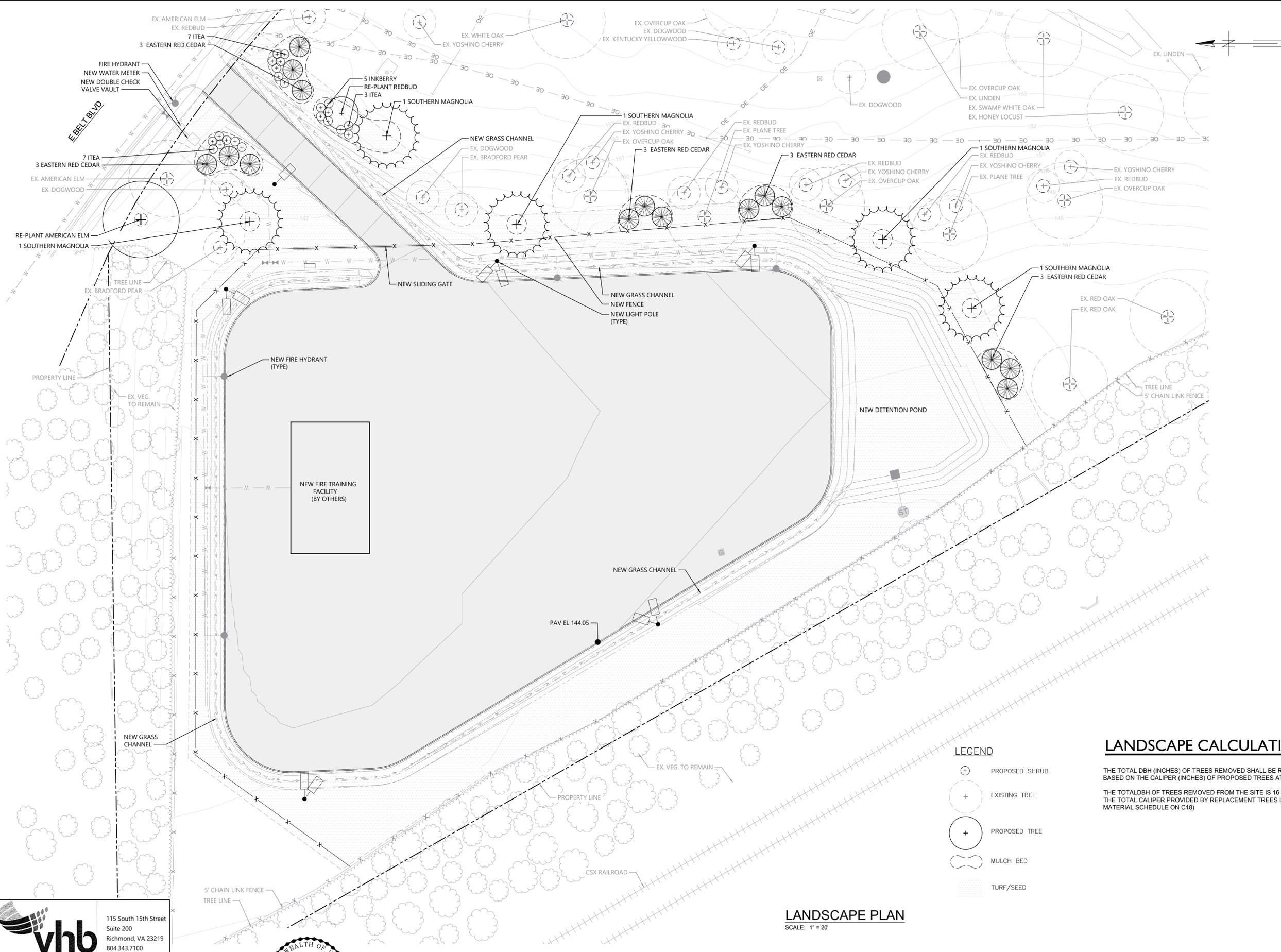
NO.	DATE	APPD	REVISION DESCRIPTION

CITY OF RICHMOND, VIRGINIA  
 DEPARTMENT OF PUBLIC UTILITIES  
**RICHMOND FIRE DEPARTMENT  
 TRAINING FACILITY**



CIVIL  
**TREE REMOVAL PLAN**

PROJECT NO.: 0218A-09  
 DWG: **C17**  
 SHEET: 19 OF 25  
 DATE: JANUARY 2023 REV: 0



**LEGEND**

- PROPOSED SHRUB
- EXISTING TREE
- PROPOSED TREE
- MULCH BED
- TURF/SEED

**LANDSCAPE CALCULATIONS**

THE TOTAL DBH (INCHES) OF TREES REMOVED SHALL BE REPLACED ON A 1:1 BASIS, BASED ON THE CALIPER (INCHES) OF PROPOSED TREES AT PLANTING.

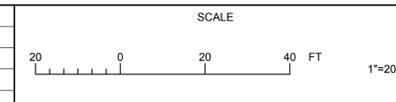
THE TOTAL DBH OF TREES REMOVED FROM THE SITE IS 16 INCHES (SEE TABLE ON C16)  
 THE TOTAL CALIPER PROVIDED BY REPLACEMENT TREES IS 32.5 INCHES (SEE PLANT MATERIAL SCHEDULE ON C18)

**LANDSCAPE PLAN**  
 SCALE: 1" = 20'

115 South 15th Street  
 Suite 200  
 Richmond, VA 23219  
 804.343.7100

9020 STONY POINT PARKWAY, SUITE 275  
 RICHMOND, VIRGINIA 23235

DESIGNED	EGG		NO.	DATE	APPD	REVISION DESCRIPTION
DRAWN	EGG					
CHECKED	ATS					

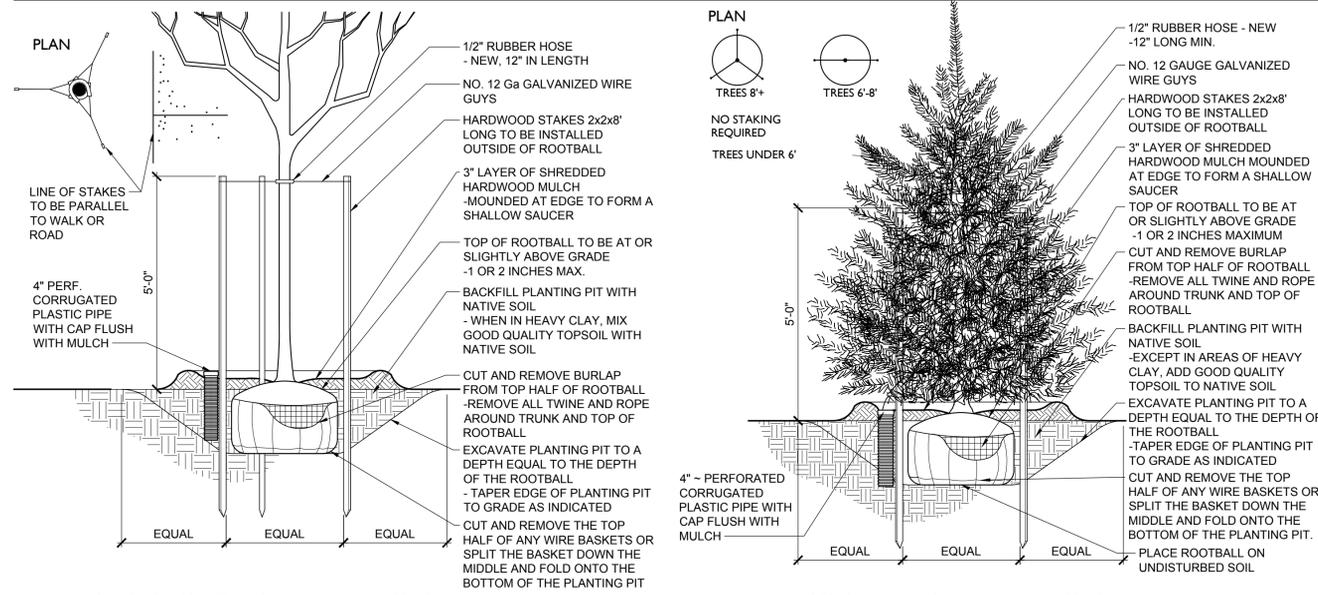


CITY OF RICHMOND, VIRGINIA  
 DEPARTMENT OF PUBLIC UTILITIES

RICHMOND FIRE DEPARTMENT  
 TRAINING FACILITY

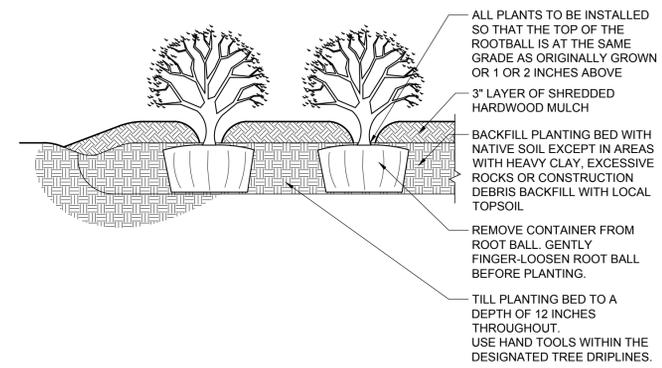
CIVIL	PROJECT NO.: 0218A-09
LANDSCAPING PLAN	DWG: <b>C18</b>
	SHEET: 20 OF 25
	DATE: JANUARY 2023 REV: 0

### PLANTING DETAILS



**A DECIDUOUS TREE STAKING DETAIL**  
 NOT TO SCALE

**C EVERGREEN TREE STAKING DETAIL**  
 NOT TO SCALE



**D SHRUB PLANTING DETAIL**  
 NOT TO SCALE

### PLANT MATERIAL SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	CALIPER	HEIGHT	ROOT TYPE	DETAIL	REMARKS
<b>TREES</b>								
15	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	AS SHOWN	1.5"	6'	B&B	C	15 X 1.5" = 22.5"
5	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	AS SHOWN	2.0"	10'	B&B	C	5 X 2" = 10"
<b>SHRUBS</b>								
5	ILEX GLABRA	INKBERRY	AS SHOWN		18" HT.	CONT.	D	DENSE, FULL TO GROUND
17	ITEA VIRGINICA	ITEA, VIRGINIA SWEETSPIRE	AS SHOWN		18" HT.	CONT.	D	DENSE, FULL TO GROUND

### PLANTING NOTES:

- CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES SHOWN ON PLAN WITH TOTALS IN PLANTING SCHEDULE. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FINAL BIDDING. UNIT PRICES SHALL BE SUBMITTED AS PART OF FINAL BID.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR TO BE IN A HEALTHY GROWING CONDITION. PLANT MATERIALS WHICH DO NOT FULFILL THIS GUARANTEE SHALL BE REPLACED AT NO COST TO THE OWNER. REPLACEMENT SHALL BE GUARANTEED THROUGHOUT THE ORIGINAL GUARANTEE PERIOD. PLANTS THAT DIE SHALL BE REPLACED IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOT ASSUME IRRIGATION SYSTEM IS FULLY OPERATIONAL AT COMPLETION OF PLANTING INSTALLATION.
- CONTRACTOR RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING OF CONSTRUCTION FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. NOTIFY LANDSCAPE ARCHITECT IF ANY CONFLICTS OCCUR.
- THE LANDSCAPE ARCHITECT IS THE OWNERS REPRESENTATIVE AND SHALL BE THE APPROVING AUTHORITY FOR INFORMATION PROVIDED IN THESE PLANS AND SPECIFICATIONS.
- ALL PLANT MATERIALS, TOPSOIL, MULCH, FERTILIZERS, SOIL AMENITIES, PLANTING SUPPLIES AND METHODS SHALL BE SUBJECT TO LANDSCAPE ARCHITECTS APPROVAL. REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE WITHOUT DELAY.
- ALL PLANT MATERIALS AND PLANTING METHODS SHALL CONFORM TO A.A.N. STANDARDS.
- CONTRACTOR SHALL LAYOUT AND MARK LOCATION FOR ALL PLANT MATERIAL, PLANTING, AND IMPROVEMENTS SHOWN AND REQUEST IN FIELD APPROVAL FROM LANDSCAPE ARCHITECT.
- BEDS TO CONTAIN SHRUBS OR GROUND COVER SHALL BE TILLED TO A DEPTH OF 6" AND THE SOIL CONDITIONED BY ADDING CLEAN, WELL ROTTED MANURE. IF EXISTING SOIL IS CONSIDERED TO BE UNUSABLE BY OWNER, BEDS SHALL BE TREATED TO ELIMINATE WEEDS AND WEED SEEDS.
- ALL PLANTING BED AREAS SHALL BE COVERED WITH A 3" MINIMUM LAYER OF MEDIUM TEXTURE SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED.
- ALL SUBSTITUTIONS OF PLANT MATERIAL SHALL BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER.
- ALL PLANTING OPERATIONS SHALL BE UNDER THE SUPERVISION OF AN EXPERIENCED PLANTSMAN.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SELECT PLANT MATERIALS IN THE NURSERY.
- FOR TREES BALLED IN WIRE BASKETS, CUT AND REMOVE TOP AND SIDES OF BASKET AFTER INSTALLATION.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO A.A.N. STANDARDS. SEE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-(CURRENT EDITION).
- SOIL SHALL BE FREE OF ALL WEEDS.
- PLANT SIZES, QUANTITIES, AND SPECIES WILL BE CHECKED BY COUNTY INSPECTION FOR COMPLIANCE WITH PLANT SCHEDULE AS APPROVED BY THE COUNTY. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DELAY IN ISSUANCE OF CERTIFICATE OF OCCUPANCY BY THE COUNTY RESULTING FROM UNAUTHORIZED SUBSTITUTIONS OR DOWNSIZING.
- UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL, AND SCHEDULE A FINAL INSPECTION FOR ACCEPTANCE BY OWNER.
- THE ONE YEAR GUARANTEE PERIOD SHALL BEGIN UPON THE OWNER'S APPROVAL AND ACCEPTANCE OF THE PLANTING INSTALLATION. THE OWNER SHALL ASSUME RESPONSIBILITY FOR MAINTENANCE INCLUDING WATERING, WEEDING, PEST CONTROL, AND FERTILIZATION.
- CONTRACTOR SHALL REMOVE STAKING FROM TREES AT THE END OF THE ONE YEAR WARRANTY PERIOD.



115 South 15th Street  
 Suite 200  
 Richmond, VA 23219  
 804.343.7100



9020 STONY POINT PARKWAY, SUITE 275  
 RICHMOND, VIRGINIA 23235

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NO.	DATE	APPD	REVISION DESCRIPTION

SCALE

CITY OF RICHMOND, VIRGINIA  
 DEPARTMENT OF PUBLIC UTILITIES  
 RICHMOND FIRE DEPARTMENT  
 TRAINING FACILITY



CIVIL  
 PLANTING DETAILS, SCHEDULE, AND NOTES

PROJECT NO.: 0218A-09  
 DWG: C19  
 SHEET: 21 OF 25  
 DATE: JANUARY 2023 REV: 0

POWER, LIGHTING AND MISCELLANEOUS PLAN SYMBOLS

Table with 2 columns: SYMBOL and DESCRIPTION. Lists various electrical symbols for conduits, lighting fixtures, switches, receptacles, and equipment enclosures.

ONE LINE AND SCHEMATIC DIAGRAM SYMBOLS

Table with 2 columns: SYMBOL and DESCRIPTION. Lists symbols for feeders, transformers, breakers, switches, and relays used in one-line and schematic diagrams.

ABBREVIATIONS

Table listing abbreviations for materials, equipment, and components, such as ACM (Asbestos Containing Material), AFF (Above Finished Floor), and others.

NOTES: 1. THIS IS A GENERAL LEGEND PROVIDED TO FACILITATE USE OF THE ELECTRICAL DRAWINGS. ALL SYMBOLS MAY NOT BE USED IN THIS SET OF ELECTRICAL DRAWINGS. REFER TO THE DRAWINGS AND SPECIFICATIONS FOR ITEMS REQUIRED.

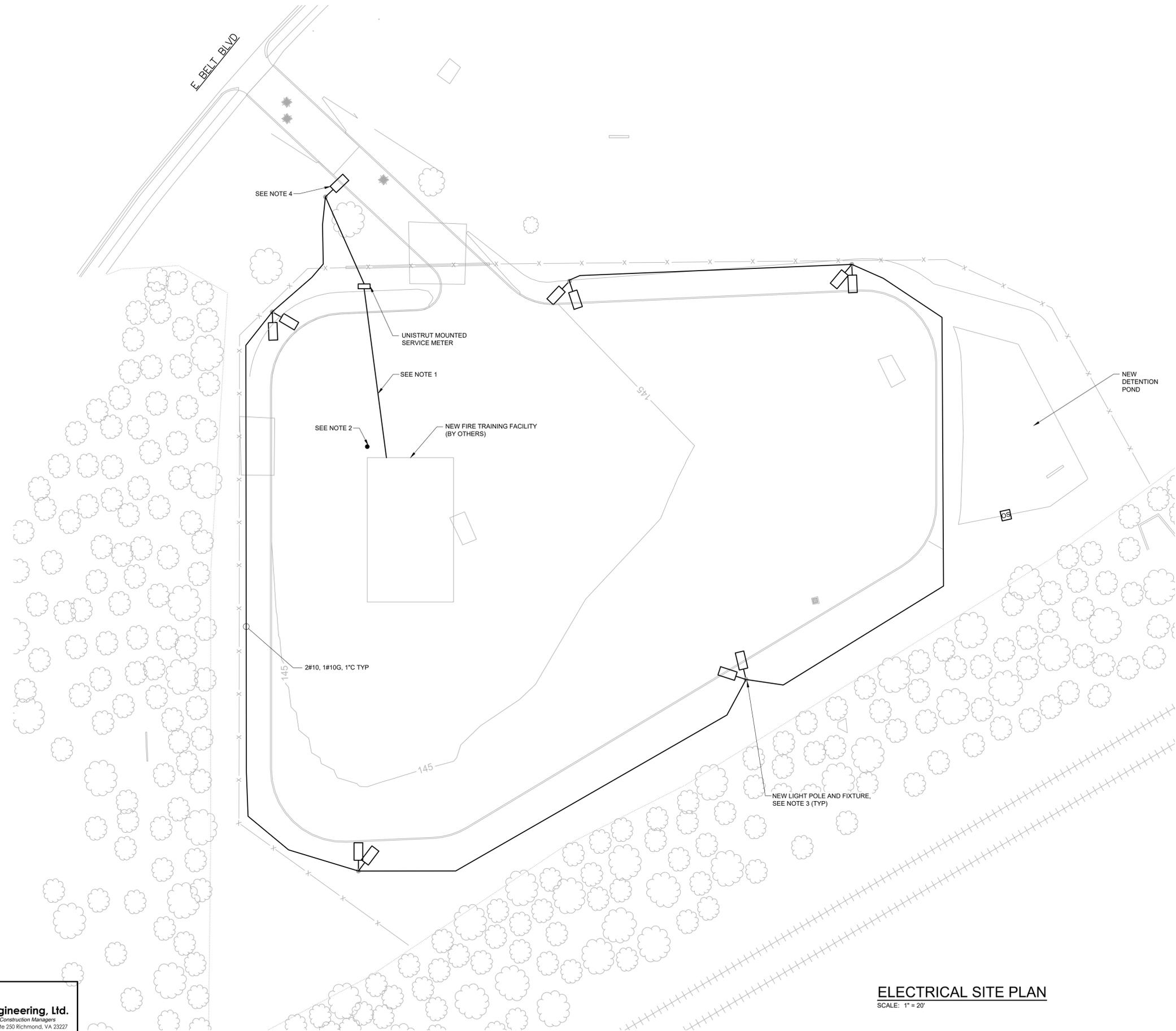
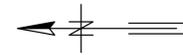
Logo for Environ-Civil Engineering, Ltd. and Greeley and Hansen, including address and contact information.

Table for project details including Designer (MSZ), Drawn (MV), Checked (TK), and a revision table with columns for NO., DATE, APPD, and REVISION DESCRIPTION.

Table for drawing scale, showing 'SCALE' and 'NO SCALE'.

Project information including 'CITY OF RICHMOND, VIRGINIA DEPARTMENT OF PUBLIC UTILITIES' and 'RICHMOND FIRE DEPARTMENT TRAINING FACILITY'.

Project identification including 'ELECTRICAL', 'PROJECT NO.: 0218A-09', 'DWG: E1', 'SHEET: 23 OF 25', and 'DATE: JANUARY 2023 REV: 0'.



**NOTES:**

1. ROUTE 2#4/0, 1#4G, 2\"C AND 1\" SPARE CONDUIT FROM FIRE TRAINING FACILITY BREAKER TO NEW BUILDING. CONCRETE ENCASE CONDUITS UNDER COVERED AREAS. STUB CONDUITS UP FOR CONNECTION TO NEW BUILDING DISCONNECT BY OTHERS. PRIOR TO INSTALLATION OF CONDUITS COORDINATE LOCATION OF BUILDING DISCONNECT WITH BUILDING MANUFACTURER.
2. PROVIDE GROUND ROD AT CORNER OF BUILDING FOR GROUNDING OF NEW BUILDING. FIELD COORDINATE LOCATION OF GROUND ROD PRIOR TO INSTALLATION.
3. HOLOPHANE PREDATOR FLOOD LIGHT WITH TENON SLIP FITTER KNUCKLE AND 25FT ROUND TAPERED ALUMINUM POLE AND BULLHORN BRACKET. BLACK FINISH FOR FIXTURE, POLE AND APPURTENANCES. MODEL # PMLD P5 40K MVOLT 65 KM BKSDP NPR WL RTA 25 70E PLN NDR BK ABG BCV BR896 BK ASSY16589 OR APPROVED EQUAL.
4. AMERICA ELECTRIC LIGHTING COBRA HEAD LIGHT WITH TYPE II OPTICS WITH A 25' ALUMINUM ROUND TAPERED POLE AND UMR ARM. BLACK FINISH FOR FIXTURE, POLE AND APPURTENANCES. MODEL # ATOP303 MVOLT R2 BK UMRBK NR RTA 25 60E PLN NDR DK ABG BR1061 BK ASSY16671 OR APPROVED EQUAL.

**ELECTRICAL SITE PLAN**

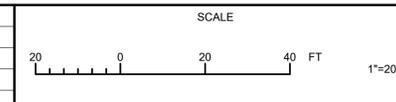
SCALE: 1" = 20'

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**GREELEY AND HANSEN**  
 9020 STONY POINT PARKWAY, SUITE 275  
 RICHMOND, VIRGINIA 23235

DESIGNED	MSZ
DRAWN	MV
CHECKED	TK
APPROVED	

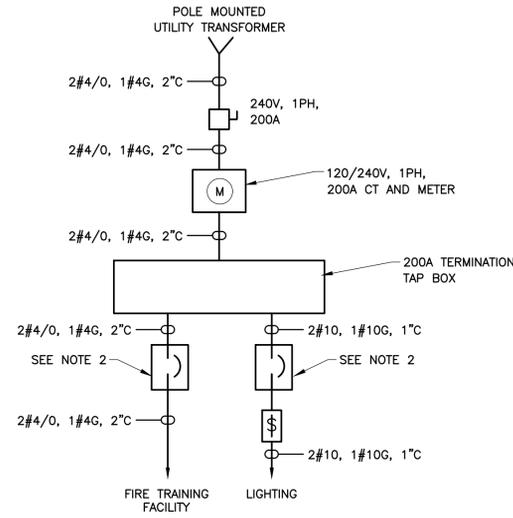
NO.	DATE	APPD	REVISION DESCRIPTION



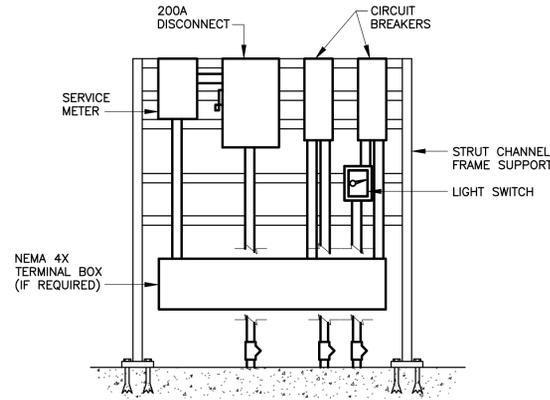
CITY OF RICHMOND, VIRGINIA  
 DEPARTMENT OF PUBLIC UTILITIES  
**RICHMOND FIRE DEPARTMENT  
 TRAINING FACILITY**



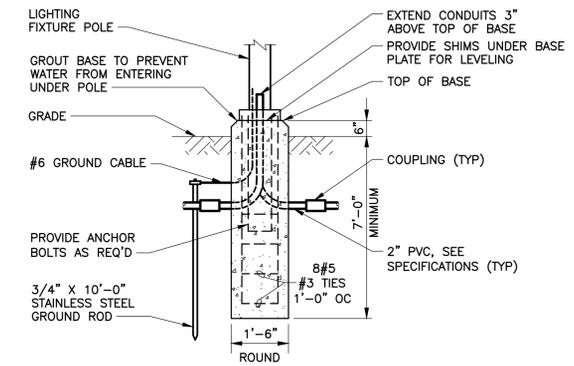
ELECTRICAL	PROJECT NO.: 0218A-09
ELECTRICAL SITE PLAN	DWG: <b>E2</b>
	SHEET: 24 OF 25
	DATE: JANUARY 2023 REV: 0



ONE LINE DIAGRAM  
NOT TO SCALE



EQUIPMENT MOUNTING STANDARD FRAME  
NOT TO SCALE



GROUNDING LIGHTING FIXTURE POLE BASE  
NOT TO SCALE

**NOTES:**

- 200A CIRCUIT BREAKER, NEMA 4X ENCLOSURE.
- 30A CIRCUIT BREAKER, NEMA 4X ENCLOSURE.
- PROVIDE CONCRETE BASE FOR UNISTRUT STRUCTURE. UNISTRUT AND ALL HARDWARE TO BE STAINLESS STEEL.

**EC** Environ-Civil Engineering, Ltd.  
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**GREELEY AND HANSEN**  
9020 STONY POINT PARKWAY, SUITE 275  
RICHMOND, VIRGINIA 23235

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DRAWN	MV				
CHECKED	TK				
APPROVED					
NO.	DATE	APPD	REVISION DESCRIPTION		

SCALE  
NO SCALE

CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES  
RICHMOND FIRE DEPARTMENT  
TRAINING FACILITY



ELECTRICAL  
DETAILS

PROJECT NO.: 0218A-09  
DWG: **E3**  
SHEET: 25 OF 25  
DATE: JANUARY 2023 REV: 0