

TOWN OF ARLINGTON

ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

100% DESIGN DEVELOPMENT SET

DRAWING LIST

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L2.1 - L2.5	LAYOUT AND MATERIAL PLANS
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LD1.1 - LD1.9	LANDSCAPE DETAILS
C1.0	CIVIL DRAINAGE PLAN
C2.0	CIVIL DETAIL SHEETS
1.0	PROPOSED BANK RESTORATION AREAS
2.0	PROPOSED AREAS OF PHASE1 BANK RESTORATION
3.0	BANK RESTORATION SECTIONS
4.0	BANK RESTORATION DETAILS
5.0	BANK RESTORATION DETAILS AND NOTES

PREPARED BY:

LANDSCAPE ARCHITECT:

Kyle Zick Landscape Architecture, Inc.
 36 Bromfield Street, Suite 202
 Boston, MA 02108
 617-451-1018 Tel
 www.kylezick.com

ARCHITECT:

Bargmann Hendrie + Archetype, Inc.
 9 Channel Center Street #300, Boston, MA 02210
 617-350-0450 Tel
 617-350-0215 Fax

CIVIL ENGINEER:

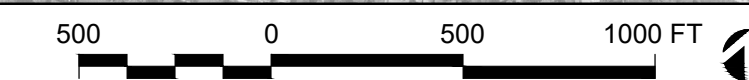
Woodard & Curran, Inc.
 980 Washington Street #325, Dedham, MA 02026
 800-446-5518 Tel

ENVIRONMENTAL CONSULTING:

SWCA Environmental Consultants
 15 Research Drive, Amherst, MA 01002
 413-575-9883 Tel



LOCATION MAP
Lowell Street/Arlington Reservoir
Arlington, MA



ARLINGTON
 RESERVOIR -
 PHASE 2

ARLINGTON, MASSACHUSETTS
 TOWN OF ARLINGTON

NO.	REVISION	DATE

kzla
 Kyle Zick Landscape Architecture, Inc.
 36 Bromfield Street Suite 202 617 451-1018 Tel
 Boston, MA 02108 www.kylezick.com

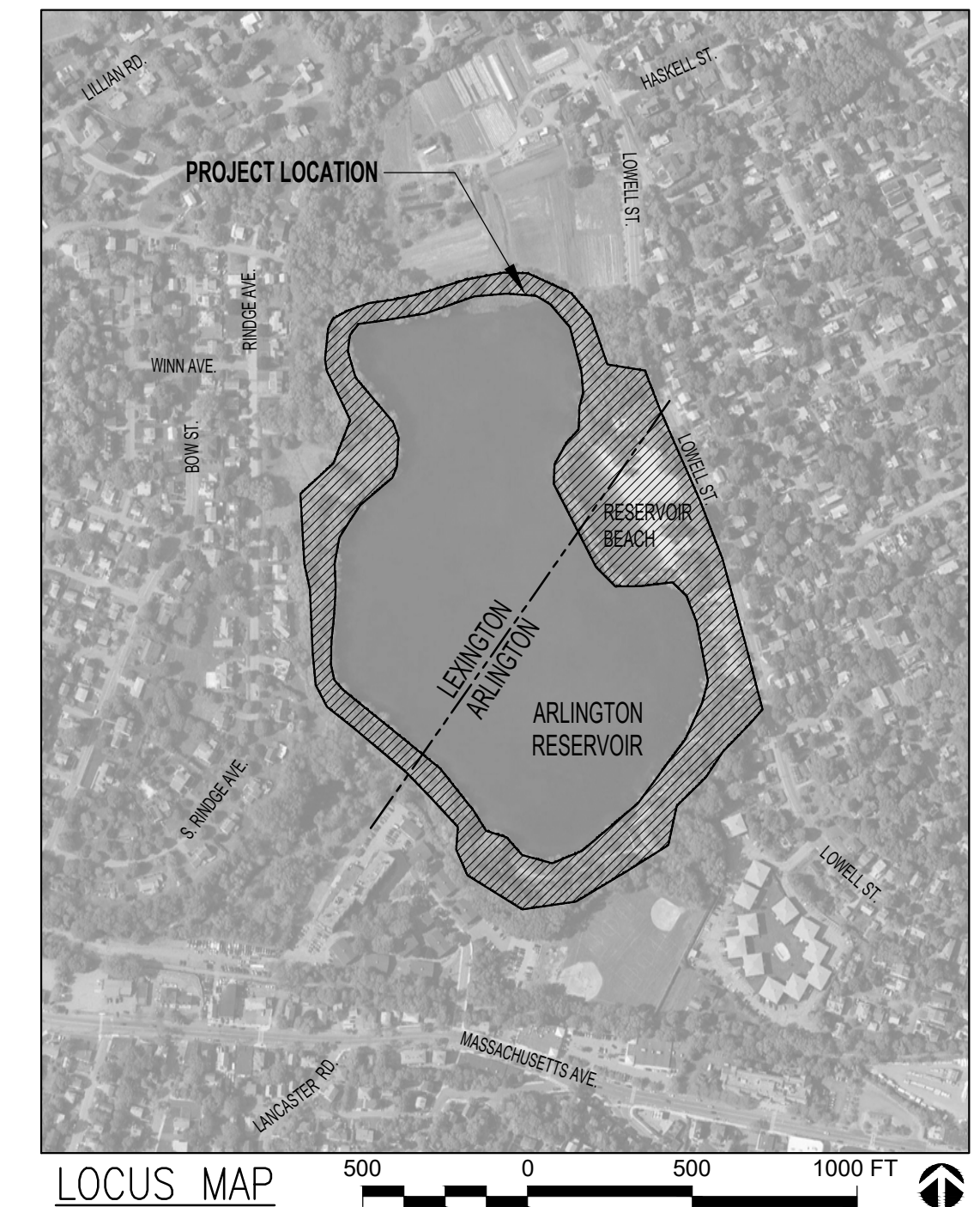
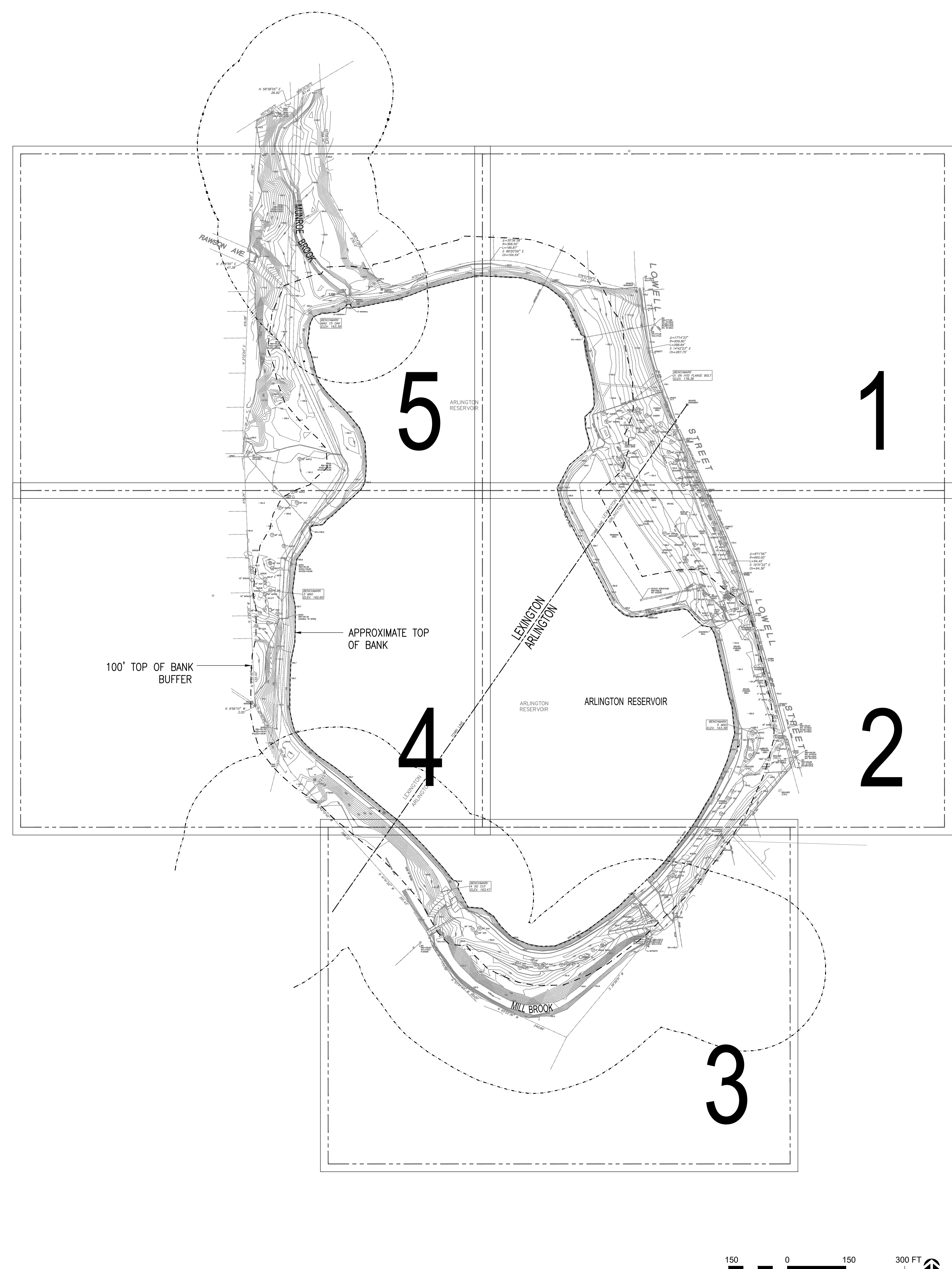


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Job Number:
 Project: ARLINGTON RES.
 Drawn By: JL/MD/RB Checked By: KZ
 Date: NOVEMBER 13, 2020
 Scale: N/A
 Drawing Title:

COVER SHEET

G



GENERAL NOTES:

1. CONTRACTOR SHALL BE FAMILIAR WITH DRAWINGS AND SPECIFICATIONS BEFORE BIDDING
2. DRAWINGS SHALL SUPERSEDE SPECIFICATIONS FOR ANY DISCREPANCIES
3. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, INCLUDING CMR521/ADA.
4. NO SMOKING IS ALLOWED WITHIN THE PARK AT ANY TIME
5. SURVEY WAS PERFORMED BY WESTON & SAMPSON ENGINEERS, INC. OF ALBANY, NY WAS UNDERTAKEN IN DECEMBER 2017
6. PER THE STORMWATER POLLUTION PREVENTION PLAN (DATED 11/9/2020), THE CONTRACTOR CAN NOT DISTURB MORE THAN 5 ACRES AT ANY GIVEN TIME.

LEGEND

- APPROXIMATE TOP OF BANK
- - - - - 100' TOP OF BANK BUFFER
- 200' RIVERFRONT AREA

ARLINGTON RESERVOIR - PHASE 2

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kzla
Kylie Zick Landscape Architecture, Inc.
36 Bronnfield Street Suite 202 Boston, MA 02108 617 451-1018 Tel www.kyiezick.com



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Job Number:
Project: ARLINGTON RES.
Drawn By: JL/MD/RB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: AS SHOWN
Drawing Title:

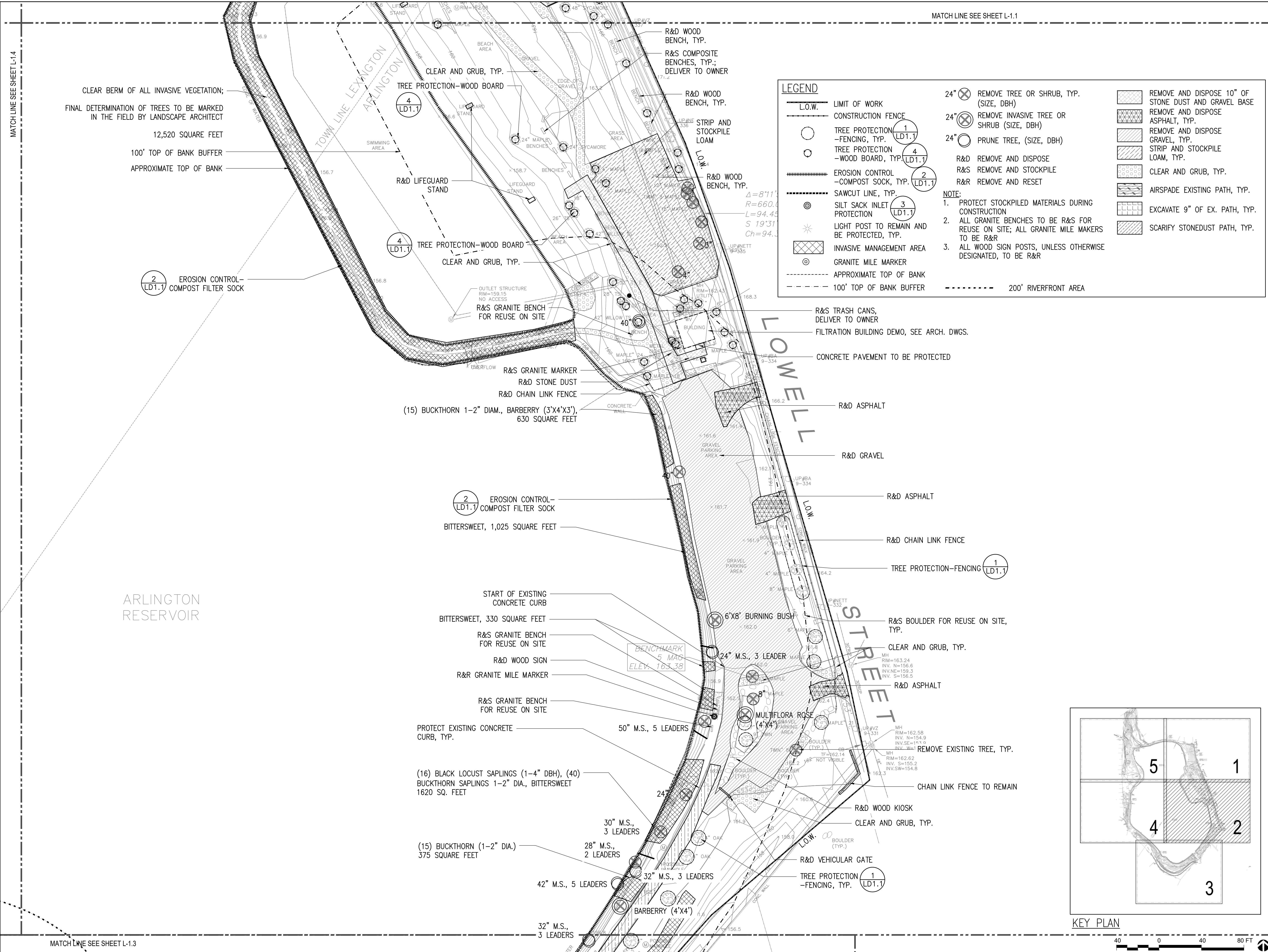
KEY PLAN

L0

**ARLINGTON
RESERVOIR -
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NO.	REVISION	DATE



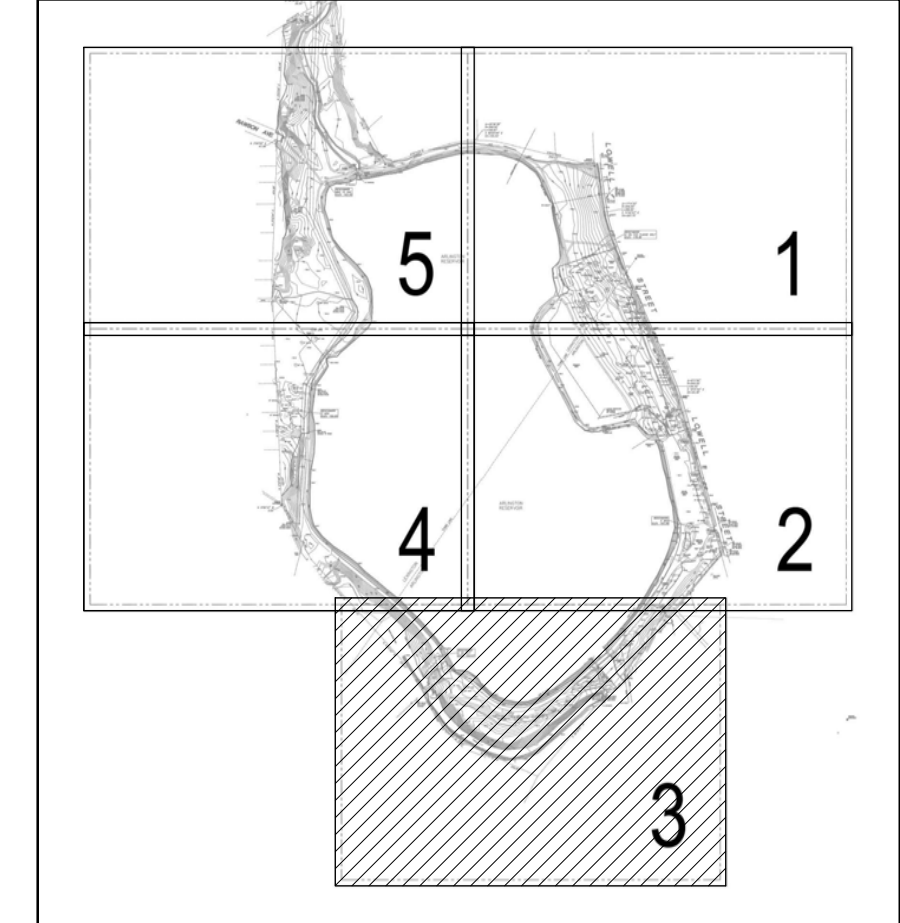
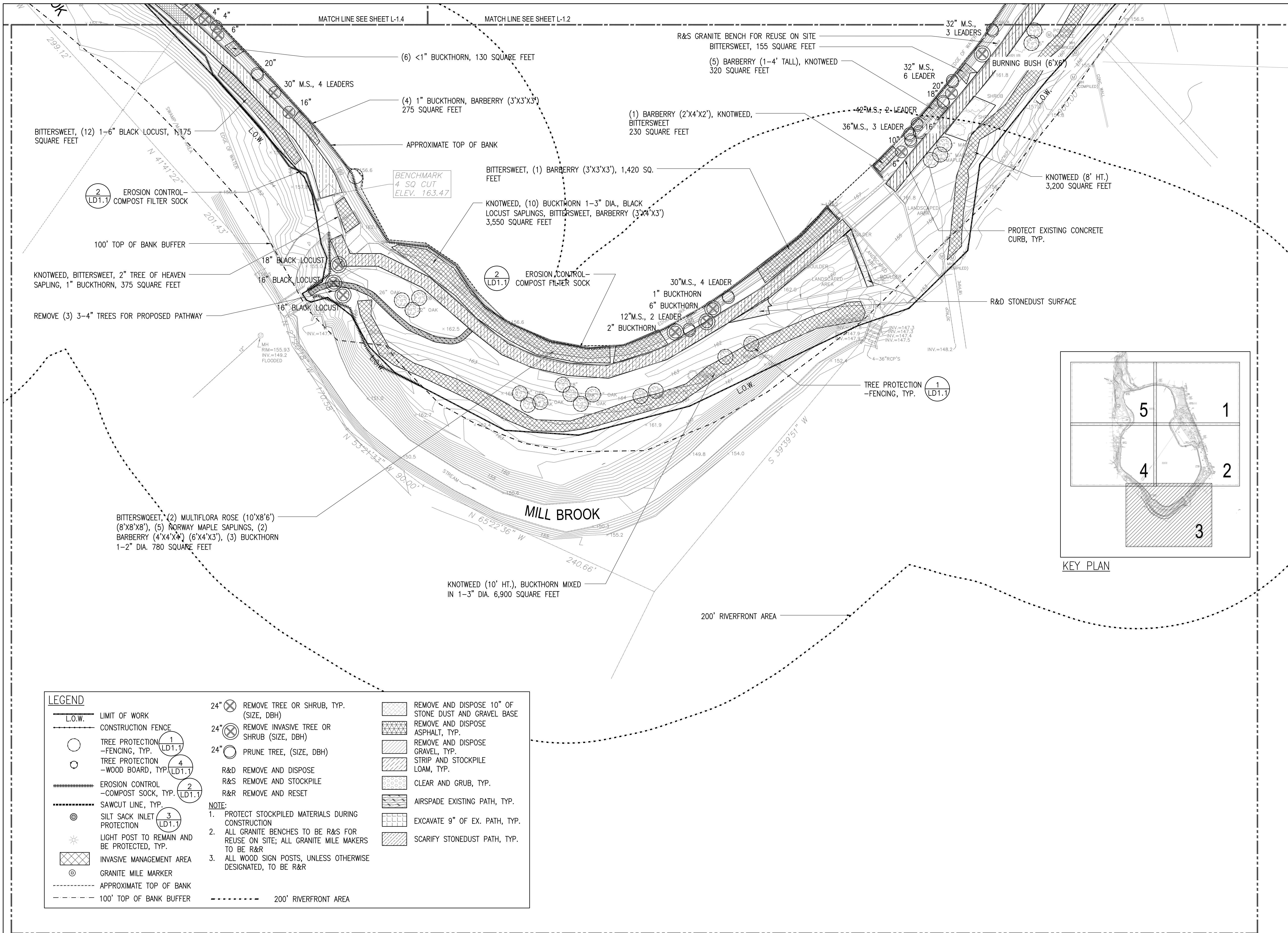
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Job Number:
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Scale: 1"=40'-0"
Drawing Title:

SITE PREPARATION AND DEMO PLAN

**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN

LEGEND	
--- L.O.W.	LIMIT OF WORK
--- CONSTRUCTION FENCE	CONSTRUCTION FENCE
○ TREE PROTECTION - FENCING, TYP. (1) LD1.1	TREE PROTECTION - FENCING, TYP. (1) LD1.1
○ TREE PROTECTION - WOOD BOARD, TYP. (4) LD1.1	TREE PROTECTION - WOOD BOARD, TYP. (4) LD1.1
--- EROSION CONTROL - COMPOST SOCK, TYP. (2) LD1.1	EROSION CONTROL - COMPOST SOCK, TYP. (2) LD1.1
--- SAWCUT LINE, TYP.	SAWCUT LINE, TYP.
⊙ SILT SACK INLET PROTECTION (3) LD1.1	SILT SACK INLET PROTECTION (3) LD1.1
★ LIGHT POST TO REMAIN AND BE PROTECTED, TYP.	LIGHT POST TO REMAIN AND BE PROTECTED, TYP.
⊗ INVASIVE MANAGEMENT AREA	INVASIVE MANAGEMENT AREA
⊙ GRANITE MILE MARKER	GRANITE MILE MARKER
--- APPROXIMATE TOP OF BANK	APPROXIMATE TOP OF BANK
--- 100' TOP OF BANK BUFFER	100' TOP OF BANK BUFFER
⊗ 24" REMOVE TREE OR SHRUB, TYP. (SIZE, DBH)	REMOVE AND DISPOSE 10" OF STONE DUST AND GRAVEL BASE
⊗ 24" REMOVE INVASIVE TREE OR SHRUB (SIZE, DBH)	REMOVE AND DISPOSE ASPHALT, TYP.
⊗ 24" PRUNE TREE, (SIZE, DBH)	REMOVE AND DISPOSE GRAVEL, TYP.
R&D REMOVE AND DISPOSE	STRIP AND STOCKPILE LOAM, TYP.
R&S REMOVE AND STOCKPILE	CLEAR AND GRUB, TYP.
R&R REMOVE AND RESET	AIRSPADE EXISTING PATH, TYP.
NOTE:	EXCAVATE 9" OF EX. PATH, TYP.
1. PROTECT STOCKPILED MATERIALS DURING CONSTRUCTION	SCARIFY STONEDUST PATH, TYP.
2. ALL GRANITE BENCHES TO BE R&S FOR REUSE ON SITE; ALL GRANITE MILE MAKERS TO BE R&R	
3. ALL WOOD SIGN POSTS, UNLESS OTHERWISE DESIGNATED, TO BE R&R	
--- 200' RIVERFRONT AREA	

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36 Bromfield Street Suite 202
Boston, MA 02108
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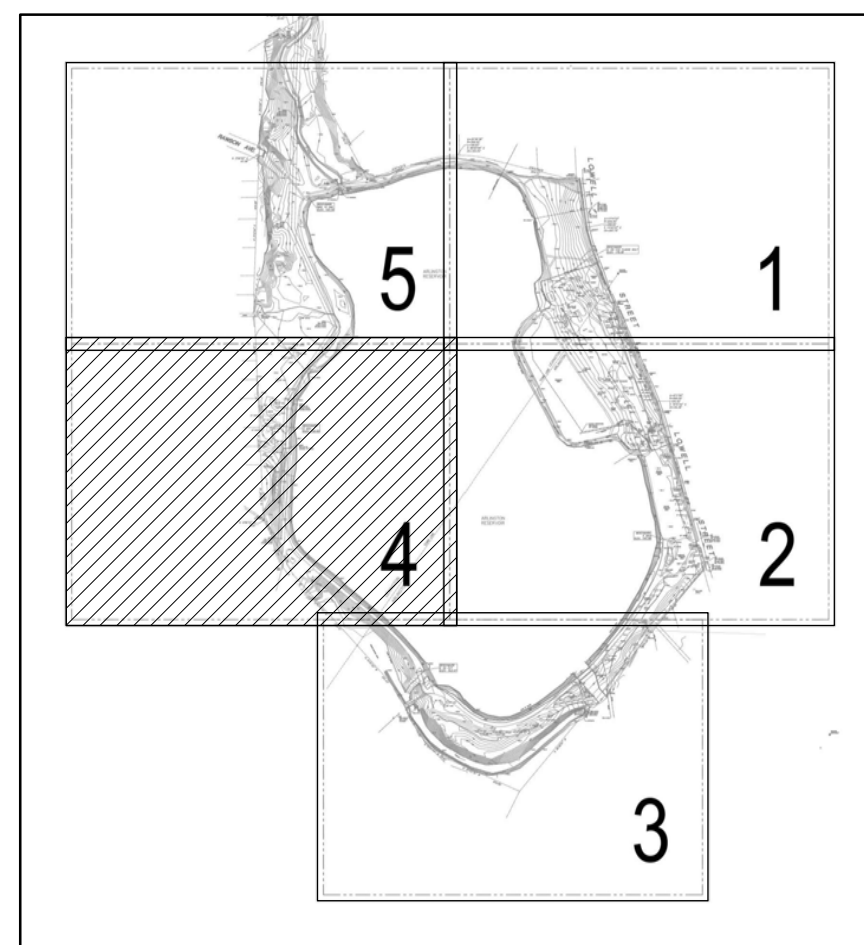
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SITE PREPARATION AND DEMO PLAN



**ARLINGTON
RESERVOIR -
PHASE 2**

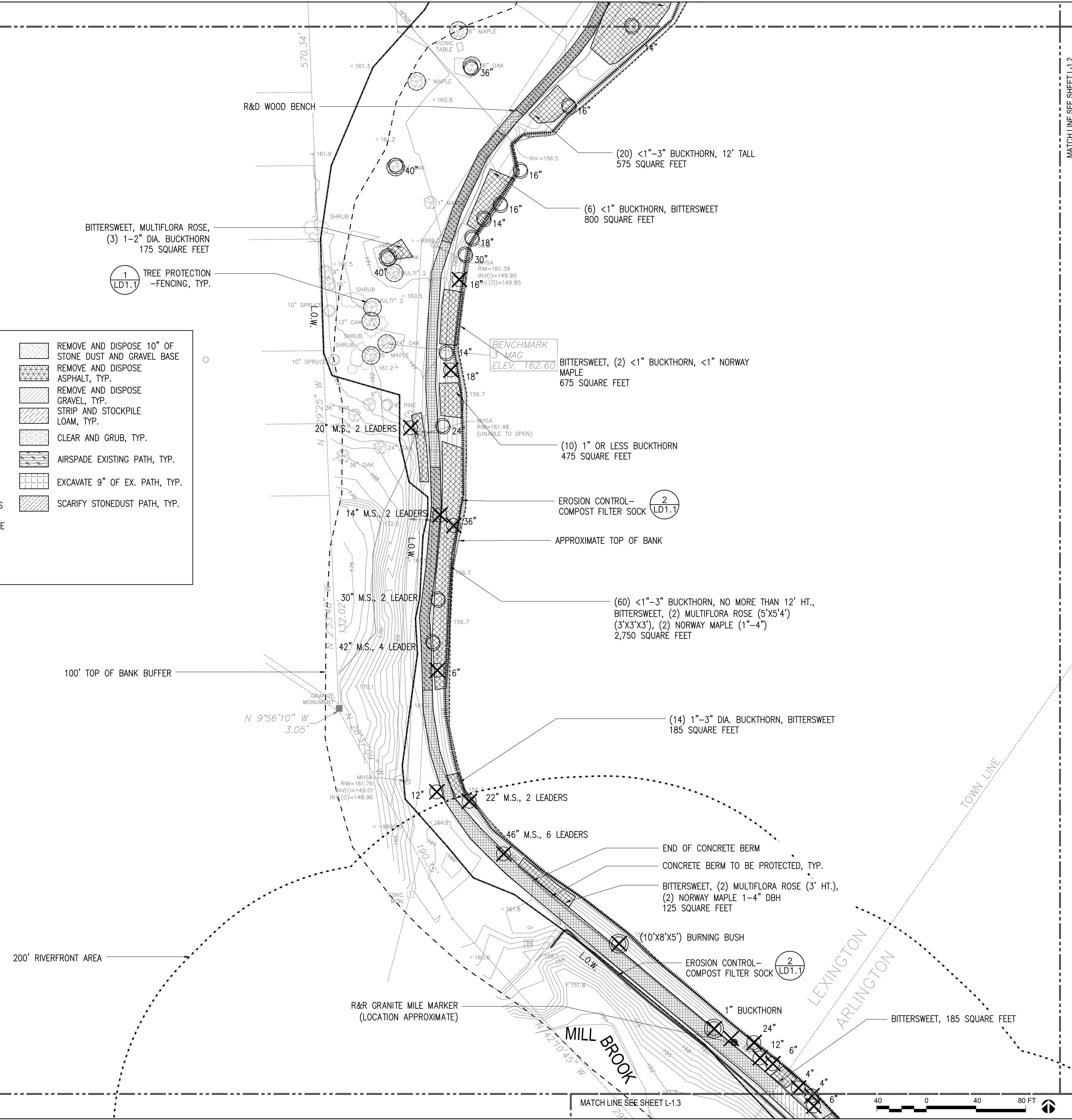
ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN

LEGEND

<p>— L.O.W. — LIMIT OF WORK</p> <p>— CONSTRUCTION FENCE</p> <p>○ TREE PROTECTION - FENCING, TYP. (1) LD1.1</p> <p>○ TREE PROTECTION - WOOD BOARD, TYP. (4) LD1.1</p> <p>▨ EROSION CONTROL - COMPOST SOCK, TYP. (2) LD1.1</p> <p>— SAWCUT LINE, TYP.</p> <p>⊙ SILT SACK INLET PROTECTION (3) LD1.1</p> <p>★ LIGHT POST TO REMAIN AND BE PROTECTED, TYP.</p> <p>▨ INVASIVE MANAGEMENT AREA</p> <p>⊙ GRANITE MILE MARKER</p> <p>--- APPROXIMATE TOP OF BANK</p> <p>--- 100' TOP OF BANK BUFFER</p>	<p>24" ⊗ REMOVE TREE OR SHRUB, TYP. (SIZE, DBH)</p> <p>24" ⊗ REMOVE INVASIVE TREE OR SHRUB (SIZE, DBH)</p> <p>24" ○ PRUNE TREE, (SIZE, DBH)</p> <p>R&D REMOVE AND DISPOSE</p> <p>R&S REMOVE AND STOCKPILE</p> <p>R&R REMOVE AND RESET</p> <p>NOTE:</p> <p>1. PROTECT STOCKPILED MATERIALS DURING CONSTRUCTION</p> <p>2. ALL GRANITE BENCHES TO BE R&S FOR REUSE ON SITE; ALL GRANITE MILE MAKERS TO BE R&R</p> <p>3. ALL WOOD SIGN POSTS, UNLESS OTHERWISE DESIGNATED, TO BE R&R</p> <p>--- 200' RIVERFRONT AREA</p>	<p>▨ REMOVE AND DISPOSE 10" OF STONE DUST AND GRAVEL BASE</p> <p>▨ REMOVE AND DISPOSE ASPHALT, TYP.</p> <p>▨ REMOVE AND DISPOSE GRAVEL, TYP.</p> <p>▨ STRIP AND STOCKPILE LOAM, TYP.</p> <p>▨ CLEAR AND GRUB, TYP.</p> <p>▨ AIRSPADE EXISTING PATH, TYP.</p> <p>▨ EXCAVATE 9" OF EX. PATH, TYP.</p> <p>▨ SCARIFY STONEDUST PATH, TYP.</p>
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MATCH LINE SEE SHEET L-12

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kzla
Kylie Zick Landscape Architecture, Inc.
36 Bronfield Street Suite 202 Boston, MA 02108 617 451-1018 Tel www.kyiezick.com



100% DESIGN DEVELOPMENT SET

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Drawing Title:

SITE PREPARATION AND DEMO PLAN

**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON

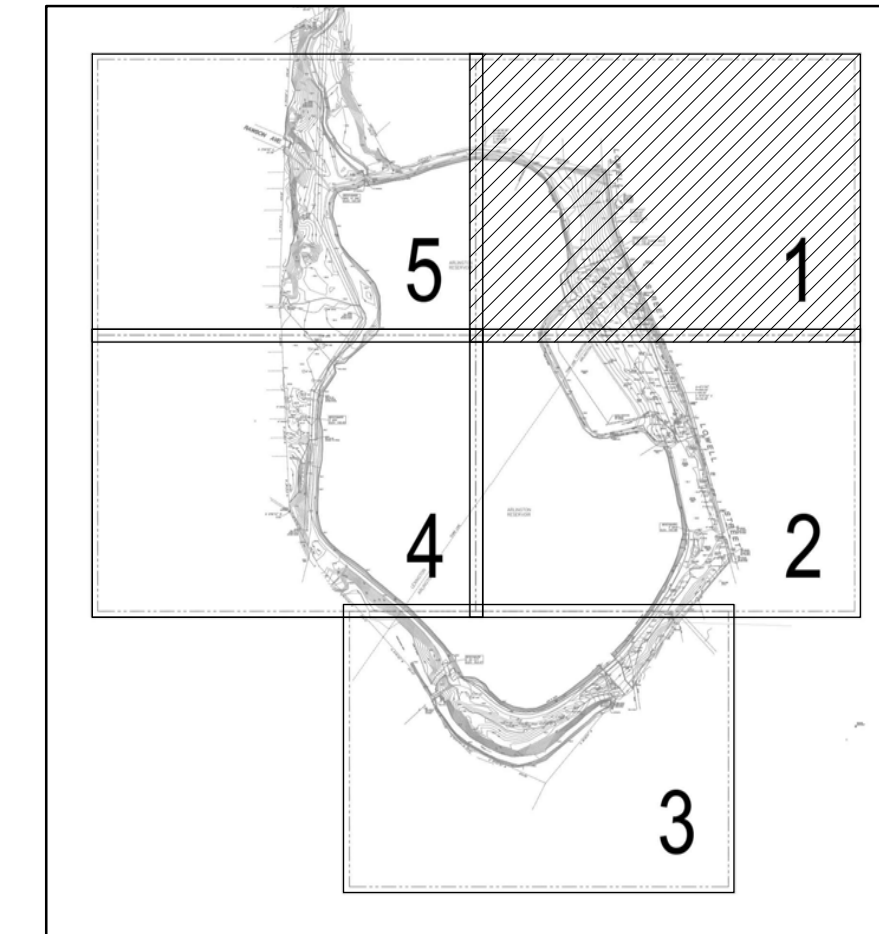
LEGEND

L.O.W. LIMIT OF WORK	CONCRETE PAVEMENT	PICNIC TABLE	TIMBER OVERLOOKS - TYPES 1 & 2
RESTORED EXISTING STONEDUST TRAIL	PERMEABLE CONCRETE UNIT PAVER	SPLIT RAIL FENCE	ARMORED SLOPE
CRUSHED GRANITE PAVEMENT, TYPE 1 (NON-STABILIZED)	MULTI-USE COURT SURFACE	BLACK VINYL COATED CHAIN LINK FENCE	TABLE AND CHAIRS
CRUSHED GRANITE PAVEMENT, TYPE 2 (STABILIZED)	POROUS PAVEMENT	BLACK VINYL COATED CHAIN LINK FENCE GATE	NEW LIFE GUARD STAND WITH SHADE STRUCTURE
PEDESTRIAN ASPHALT		TRASH RECEPTACLE AND RECYCLING BIN	HEXAGONAL BENCH
VEHICULAR ASPHALT		BIKE RACK	
WOOD FIBER SURFACING		6FT LONG BENCH W/ COMPANION SPACE	
POURED-IN-PLACE RUBBER SURFACING		CHAIN LINK FENCE CANTILEVER GATE	
		WOODEN GATE W/ GRANITE POST	
		PLACED BOULDER	
		WAYFINDING SIGN	
		RESET GRANITE MILE MARKER	
			APPROXIMATE TOP OF BANK
			100' TOP OF BANK BUFFER
			200' RIVERFRONT AREA

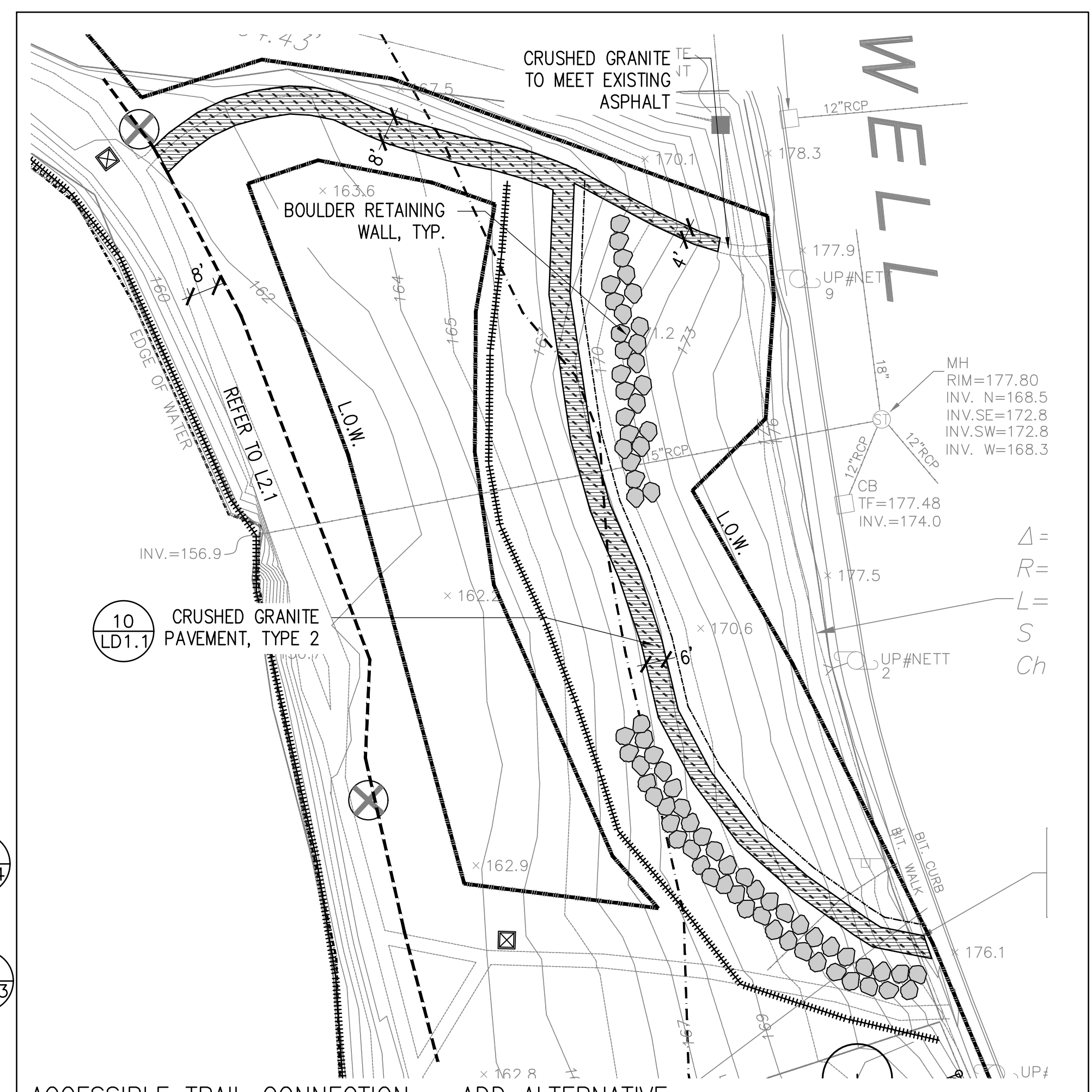
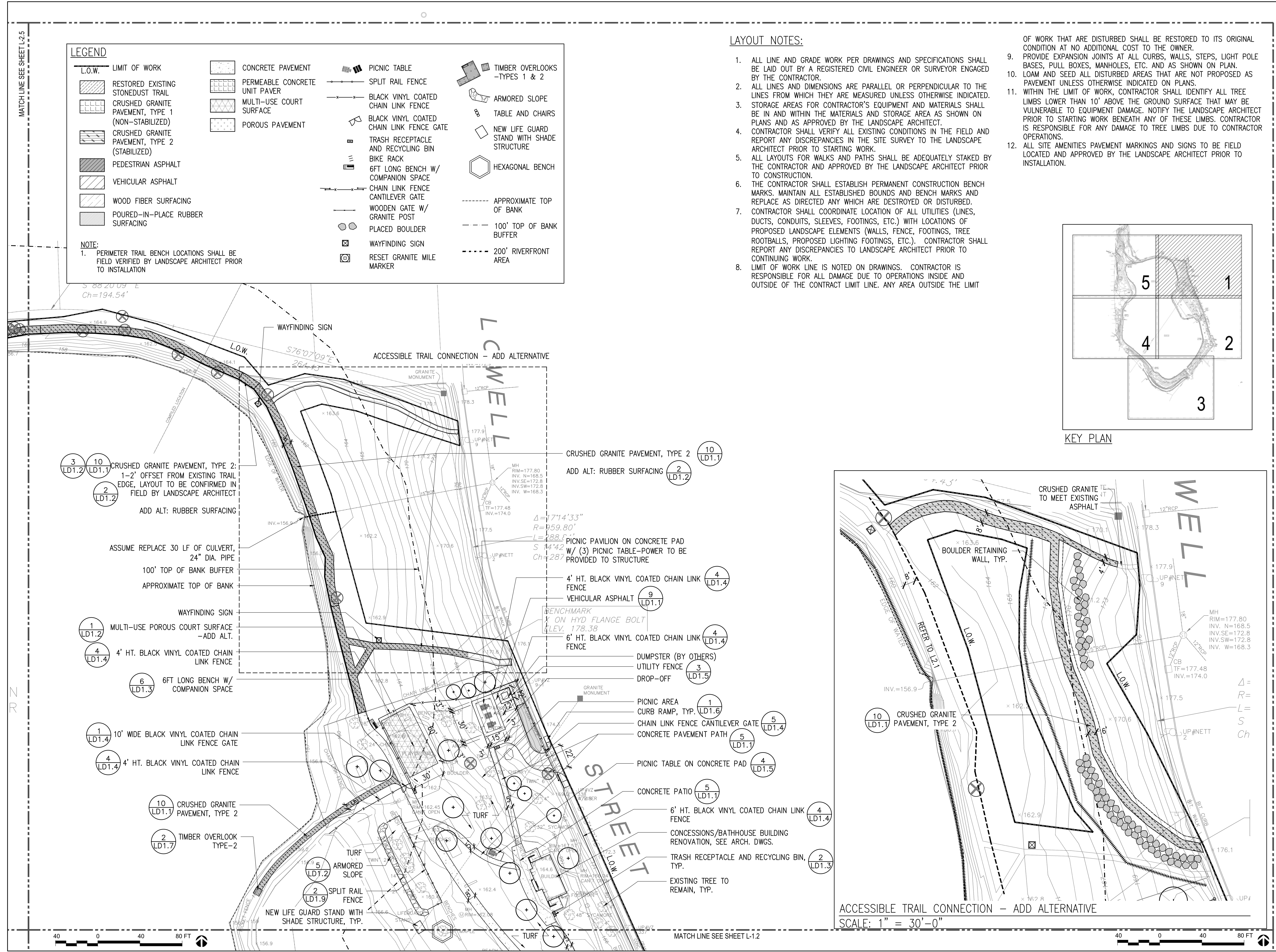
NOTE:
1. PERIMETER TRAIL BENCH LOCATIONS SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

LAYOUT NOTES:

- ALL LINE AND GRADE WORK PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR ENGAGED BY THE CONTRACTOR.
- ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN THE MATERIALS AND STORAGE AREA AS SHOWN ON PLANS AND AS APPROVED BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
- ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCH MARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCH MARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
- LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREA OUTSIDE THE LIMIT
- OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. PROVIDE EXPANSION JOINTS AT ALL CURBS, WALLS, STEPS, LIGHT POLE BASES, PULL BOXES, MANHOLES, ETC. AND AS SHOWN ON PLAN.
- LOAM AND SEED ALL DISTURBED AREAS THAT ARE NOT PROPOSED AS PAVEMENT UNLESS OTHERWISE INDICATED ON PLANS.
- WITHIN THE LIMIT OF WORK, CONTRACTOR SHALL IDENTIFY ALL TREE LIMBS LOWER THAN 10' ABOVE THE GROUND SURFACE THAT MAY BE VULNERABLE TO EQUIPMENT DAMAGE. NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK BENEATH ANY OF THESE LIMBS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO TREE LIMBS DUE TO CONTRACTOR OPERATIONS.
- ALL SITE AMENITIES PAVEMENT MARKINGS AND SIGNS TO BE FIELD LOCATED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



KEY PLAN



ACCESSIBLE TRAIL CONNECTION - ADD ALTERNATIVE
SCALE: 1" = 30'-0"

NO.	REVISION	DATE

kzla
Kylie Zick Landscape Architecture, Inc.
36 Bronfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
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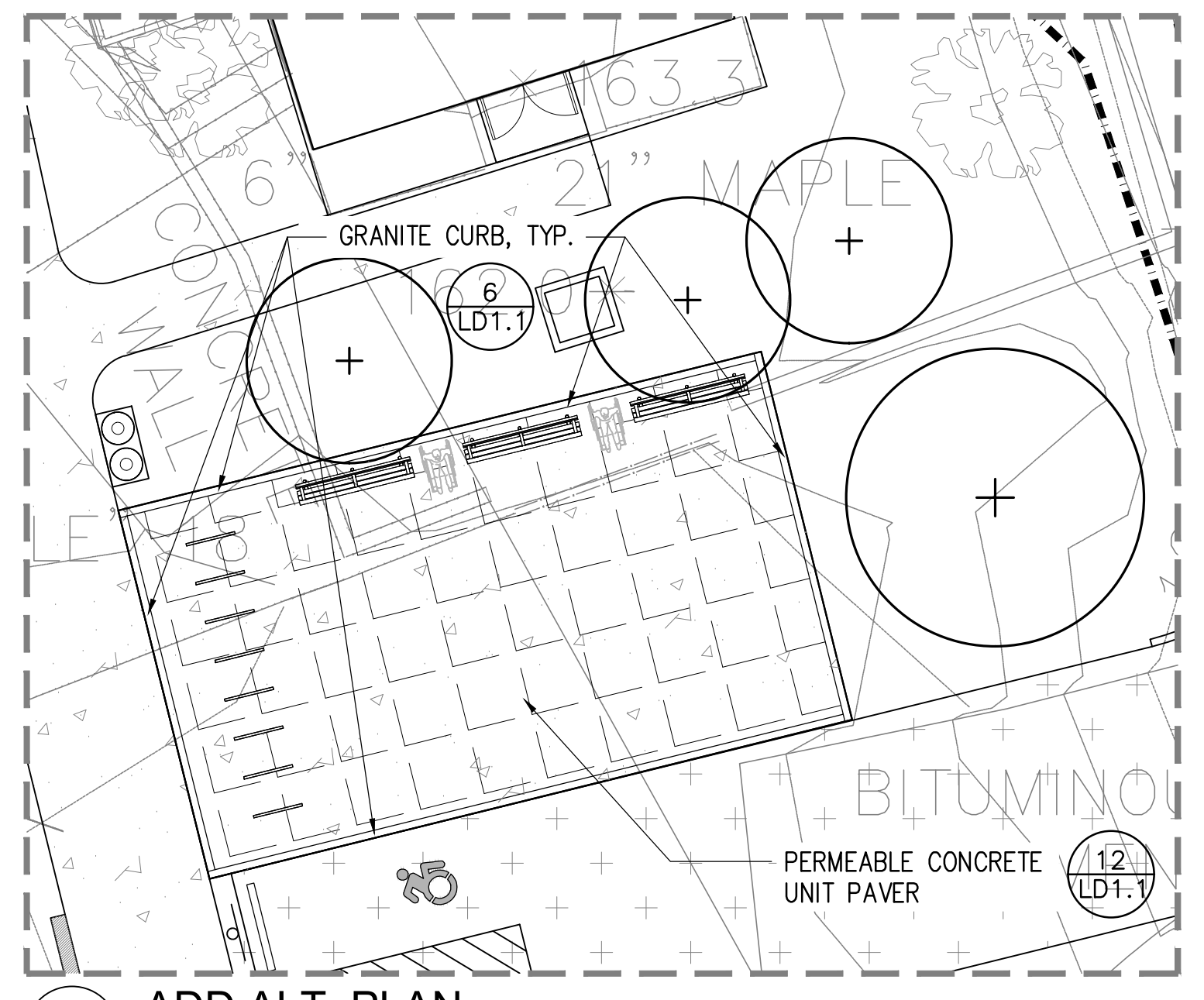
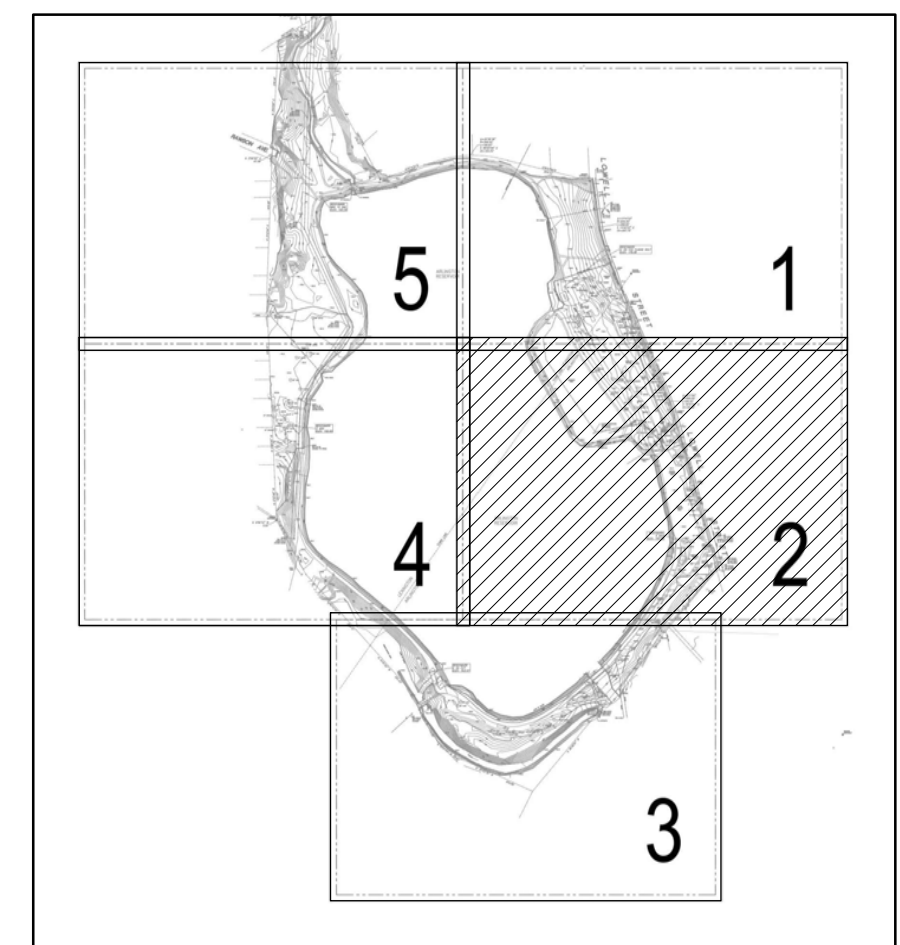
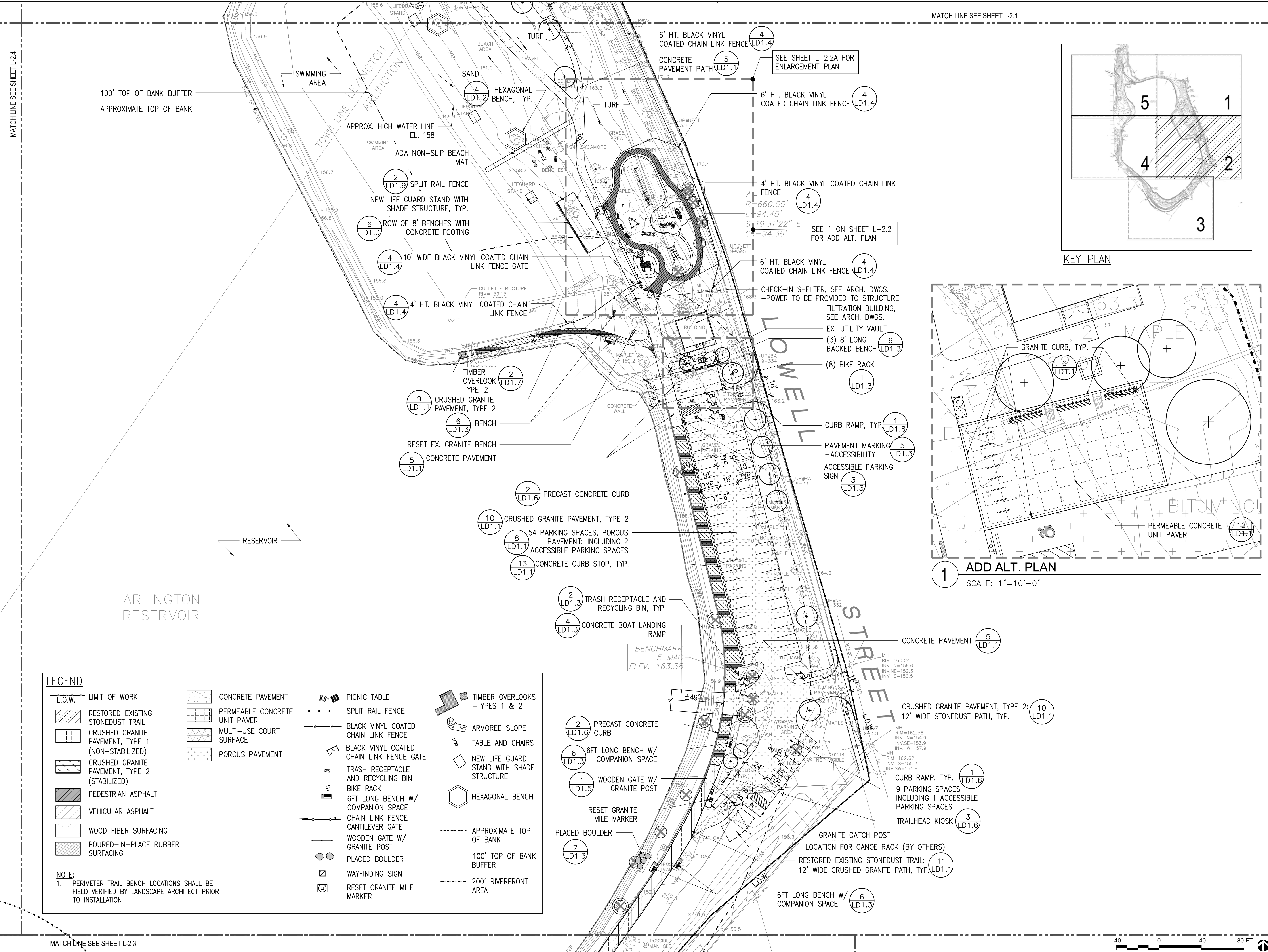
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Project: ARLINGTON RES.
Drawn By: JLM/DRB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: 1"=40'-0"
Drawing Title:

LAYOUT AND MATERIAL PLAN

L2.1

ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



LEGEND	
L.O.W.	LIMIT OF WORK
[Symbol]	RESTORED EXISTING STONEDUST TRAIL
[Symbol]	CRUSHED GRANITE PAVEMENT, TYPE 1 (NON-STABILIZED)
[Symbol]	CRUSHED GRANITE PAVEMENT, TYPE 2 (STABILIZED)
[Symbol]	PEDESTRIAN ASPHALT
[Symbol]	VEHICULAR ASPHALT
[Symbol]	WOOD FIBER SURFACING
[Symbol]	POURED-IN-PLACE RUBBER SURFACING
[Symbol]	CONCRETE PAVEMENT
[Symbol]	PERMEABLE CONCRETE UNIT PAVER
[Symbol]	MULTI-USE COURT SURFACE
[Symbol]	POROUS PAVEMENT
[Symbol]	PICNIC TABLE
[Symbol]	SPLIT RAIL FENCE
[Symbol]	BLACK VINYL COATED CHAIN LINK FENCE
[Symbol]	BLACK VINYL COATED CHAIN LINK FENCE GATE
[Symbol]	TRASH RECEPTACLE AND RECYCLING BIN
[Symbol]	BIKE RACK
[Symbol]	6FT LONG BENCH W/ COMPANION SPACE
[Symbol]	CHAIN LINK FENCE CANTILEVER GATE
[Symbol]	WOODEN GATE W/ GRANITE POST
[Symbol]	PLACED BOULDER
[Symbol]	WAYFINDING SIGN
[Symbol]	RESET GRANITE MILE MARKER
[Symbol]	TIMBER OVERLOOKS -TYPES 1 & 2
[Symbol]	ARMORED SLOPE
[Symbol]	TABLE AND CHAIRS
[Symbol]	NEW LIFE GUARD STAND WITH SHADE STRUCTURE
[Symbol]	HEXAGONAL BENCH
[Symbol]	APPROXIMATE TOP OF BANK
[Symbol]	100' TOP OF BANK BUFFER
[Symbol]	200' RIVERFRONT AREA

NOTE:
1. PERIMETER TRAIL BENCH LOCATIONS SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

NO.	REVISION	DATE

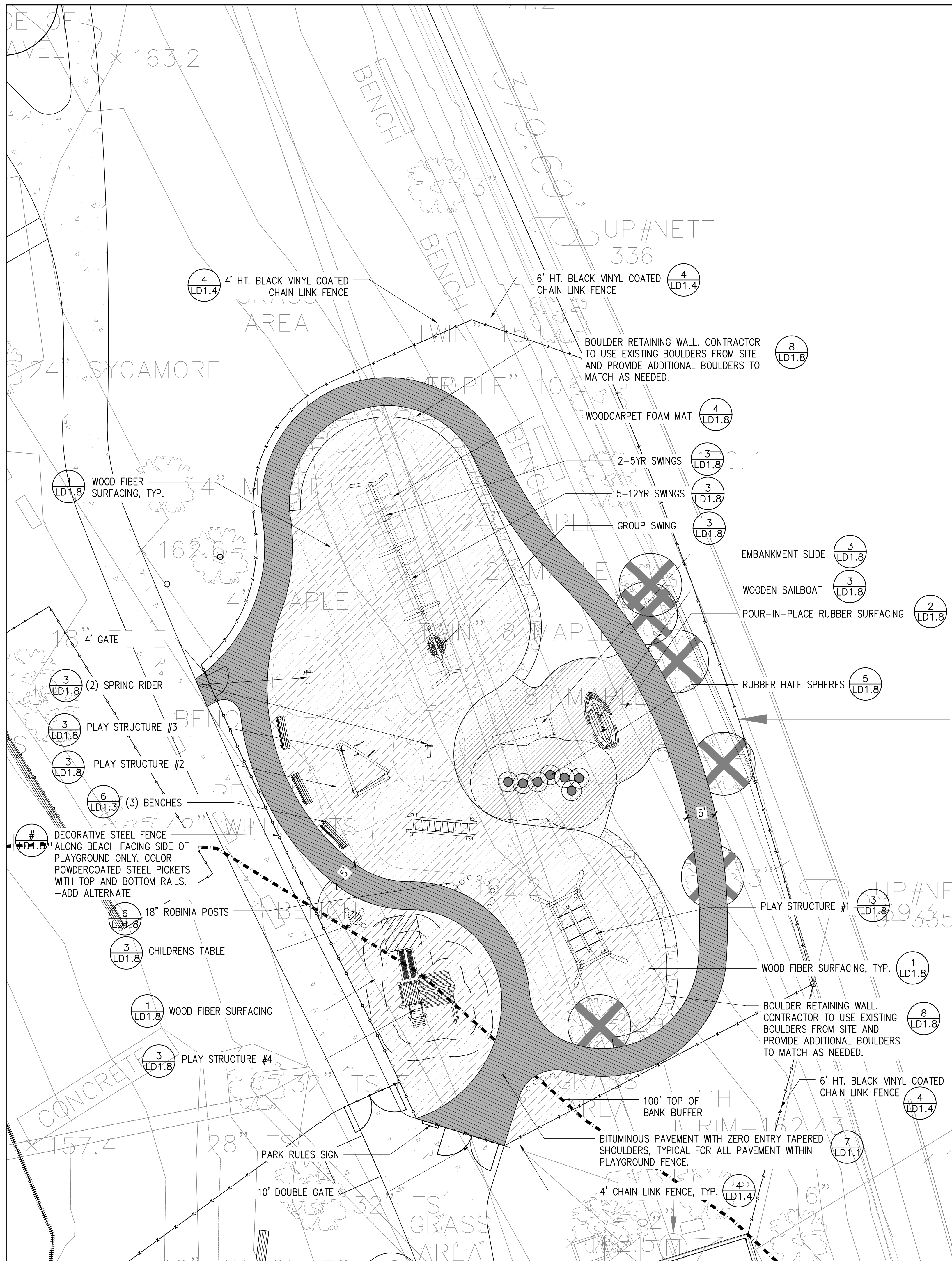
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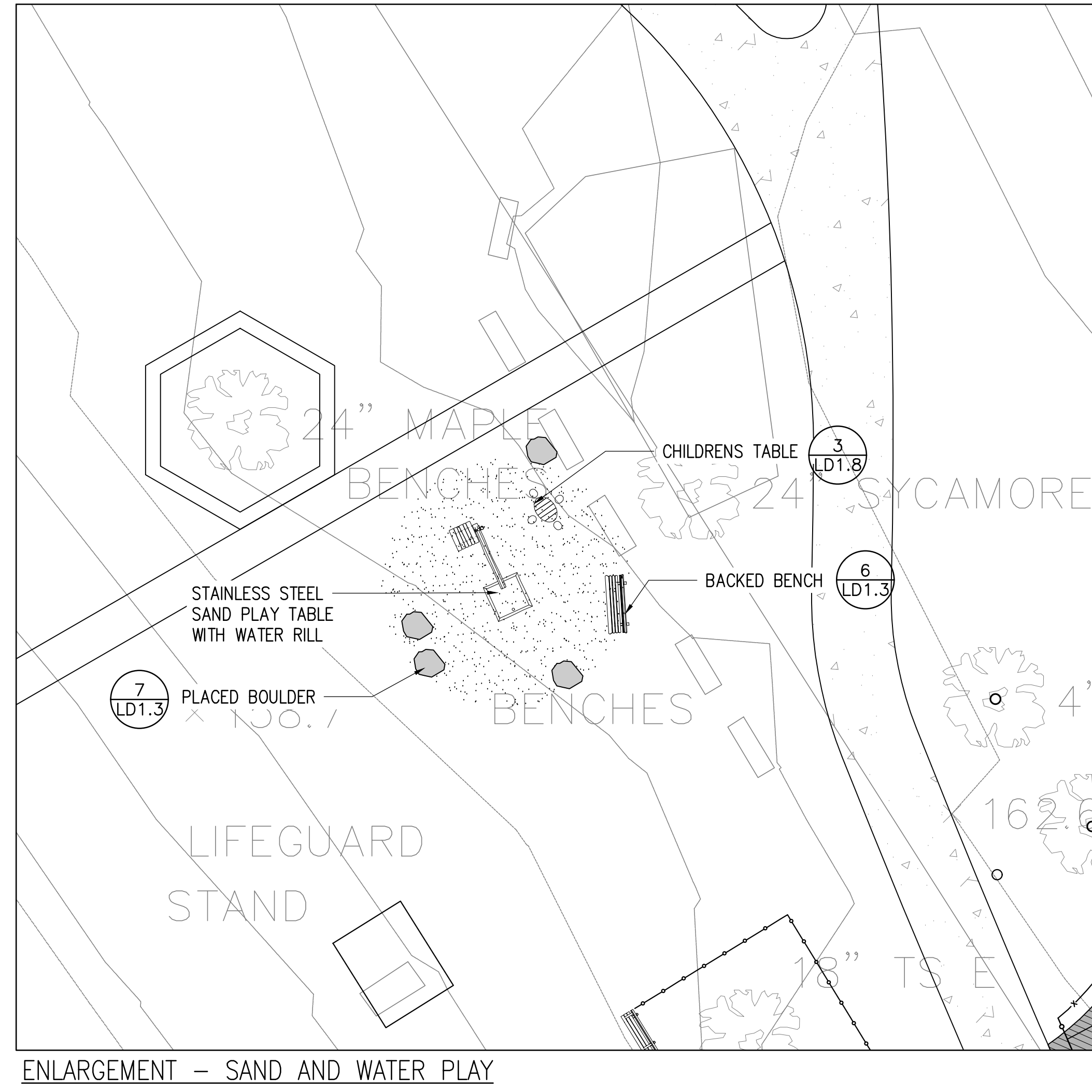
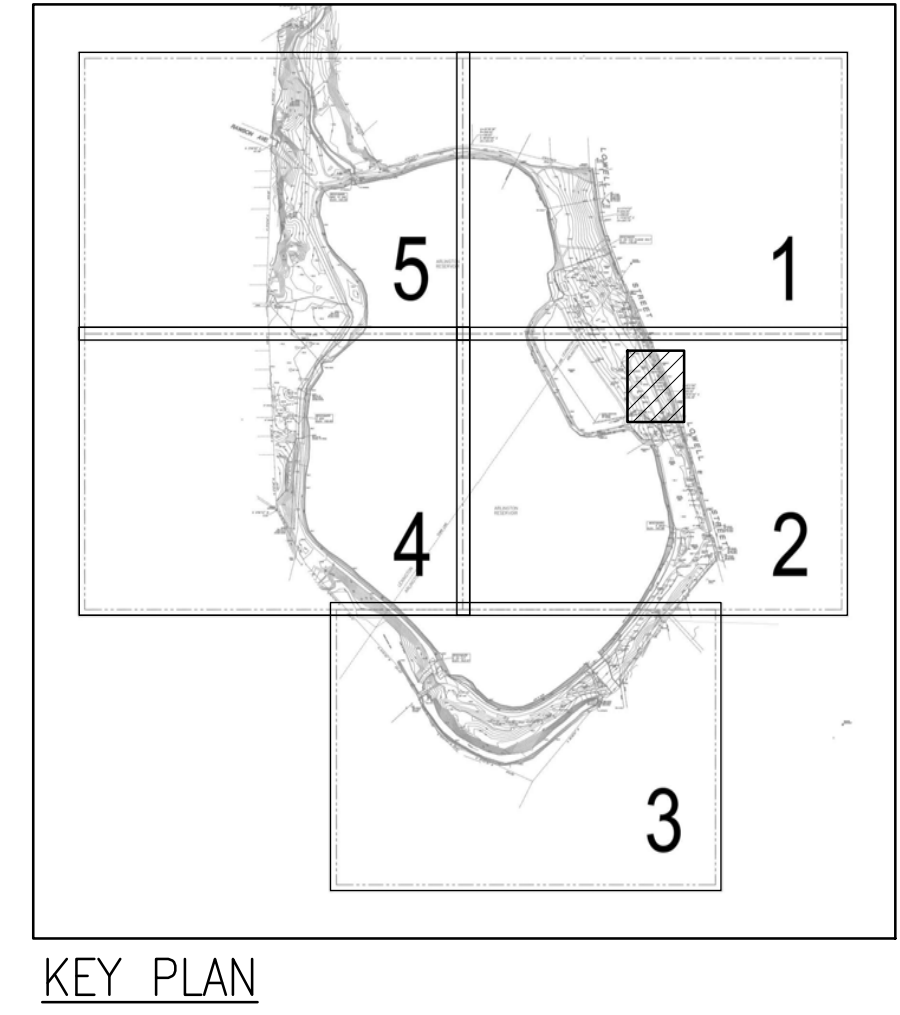
LAYOUT AND MATERIAL PLAN



LEGEND

L.O.W. LIMIT OF WORK	PICNIC TABLE
PEDESTRIAN ASPHALT	BLACK VINYL COATED CHAIN LINK FENCE
WOOD FIBER SURFACING	BLACK VINYL COATED CHAIN LINK FENCE GATE
POUR-IN-PLACE RUBBER SURFACING	THERMOPLASTIC PAVEMENT GRAPHICS
SET BOULDERS, VOIDS LARGER THAN 6" TO BE FIELD WITH SMALLER STONES TO MATCH AND MORTARED	PLACED BOULDER
CONCRETE PAVEMENT	

NOTE:
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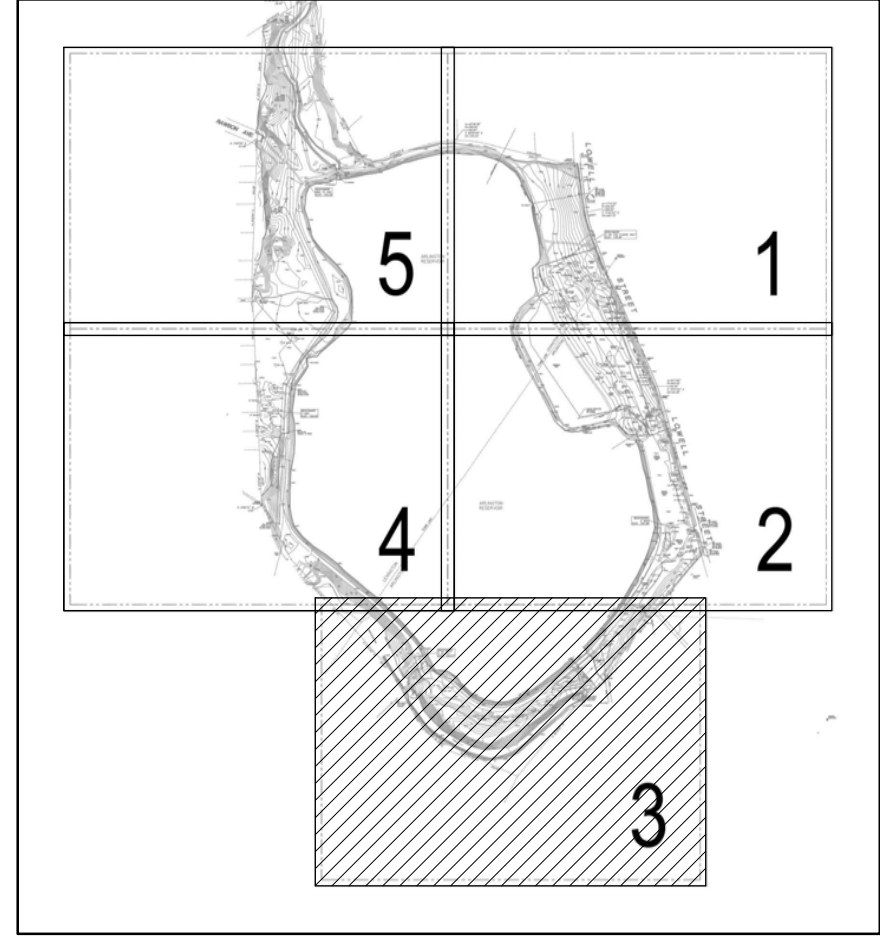
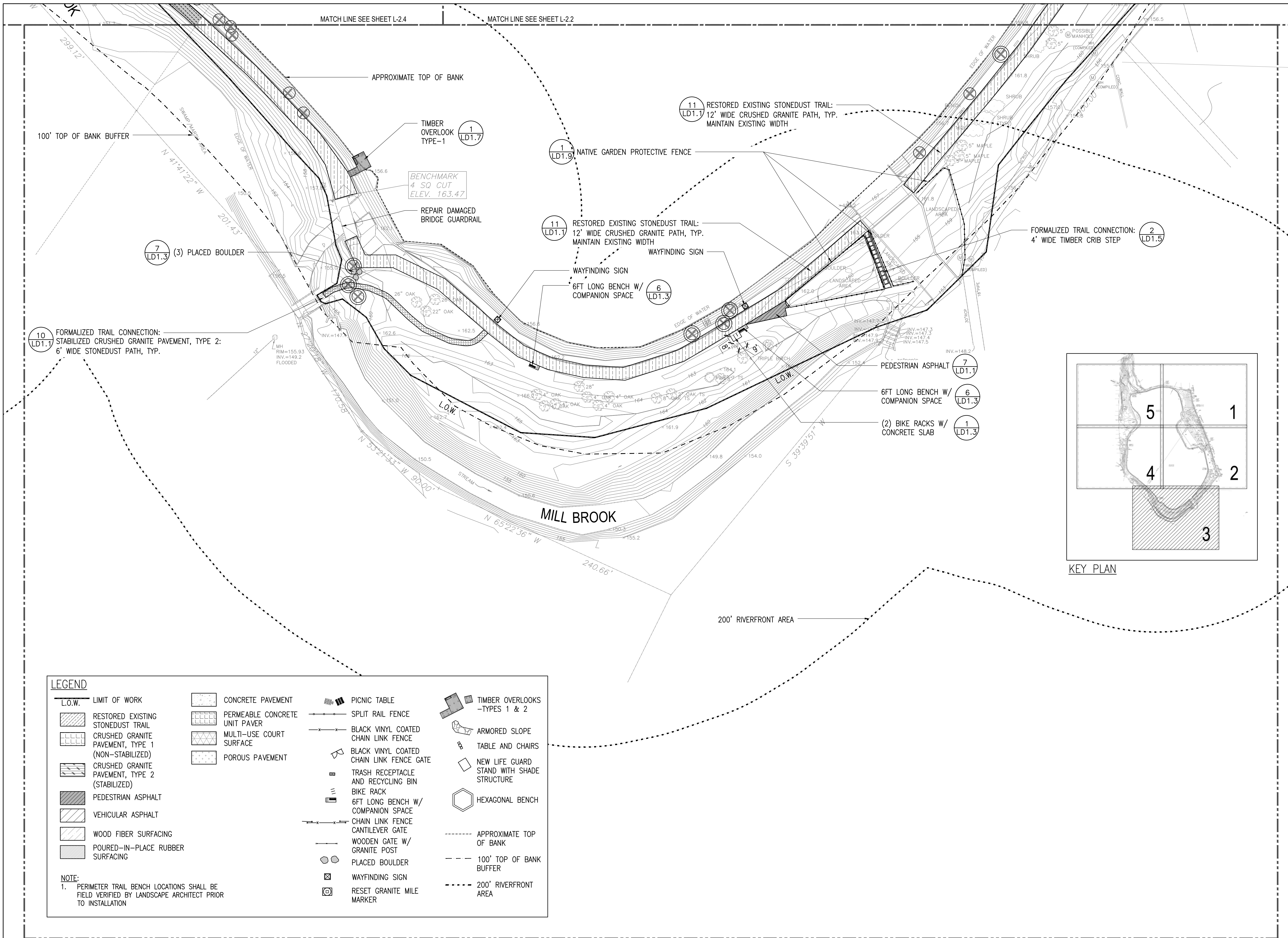
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Drawing Title:

ENLARGED LAYOUT AND MATERIAL PLAN

L2.2A

**ARLINGTON
RESERVOIR -
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ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN

LEGEND			
L.O.W.	LIMIT OF WORK	CONCRETE PAVEMENT	PICNIC TABLE
[Symbol]	RESTORED EXISTING STONEDUST TRAIL	PERMEABLE CONCRETE UNIT PAVER	SPLIT RAIL FENCE
[Symbol]	CRUSHED GRANITE PAVEMENT, TYPE 1 (NON-STABILIZED)	MULTI-USE COURT SURFACE	BLACK VINYL COATED CHAIN LINK FENCE
[Symbol]	CRUSHED GRANITE PAVEMENT, TYPE 2 (STABILIZED)	POROUS PAVEMENT	BLACK VINYL COATED CHAIN LINK FENCE GATE
[Symbol]	PEDESTRIAN ASPHALT		TRASH RECEPTACLE AND RECYCLING BIN
[Symbol]	VEHICULAR ASPHALT		BIKE RACK
[Symbol]	WOOD FIBER SURFACING		6FT LONG BENCH W/ COMPANION SPACE
[Symbol]	POURED-IN-PLACE RUBBER SURFACING		CHAIN LINK FENCE CANTILEVER GATE
			WOODEN GATE W/ GRANITE POST
			PLACED BOULDER
			WAYFINDING SIGN
			RESET GRANITE MILE MARKER
			TIMBER OVERLOOKS - TYPES 1 & 2
			ARMORED SLOPE
			TABLE AND CHAIRS
			NEW LIFE GUARD STAND WITH SHADE STRUCTURE
			HEXAGONAL BENCH
			APPROXIMATE TOP OF BANK
			100' TOP OF BANK BUFFER
			200' RIVERFRONT AREA

NOTE:
1. PERIMETER TRAIL BENCH LOCATIONS SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

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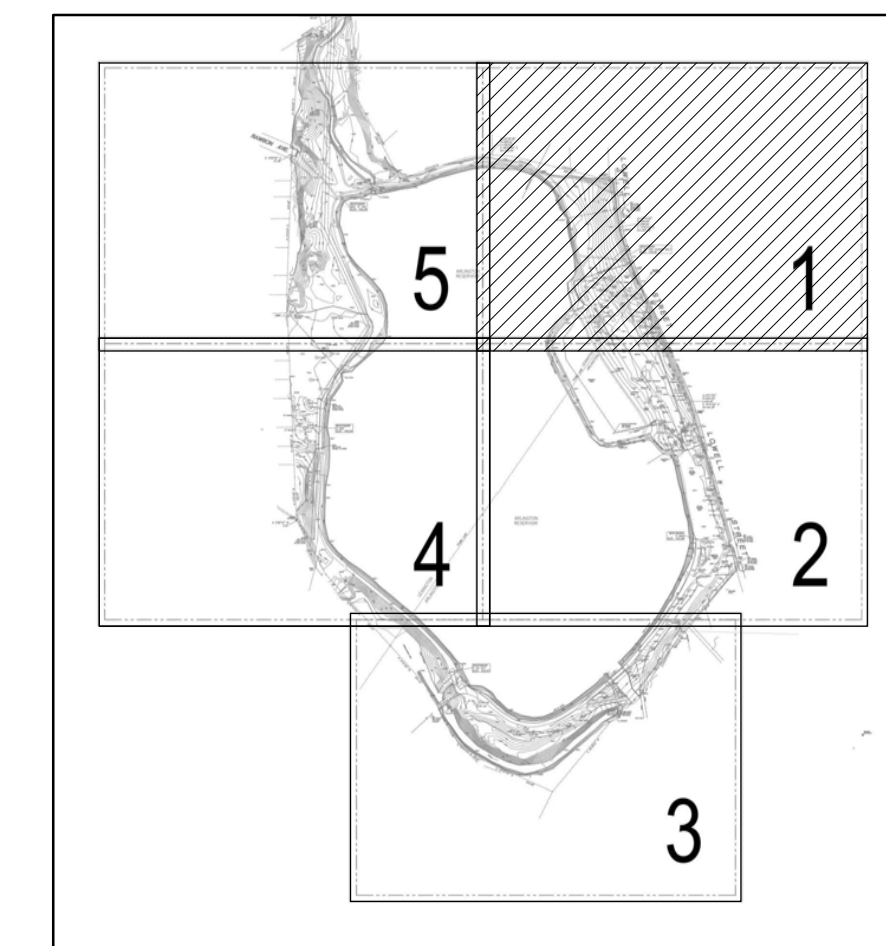
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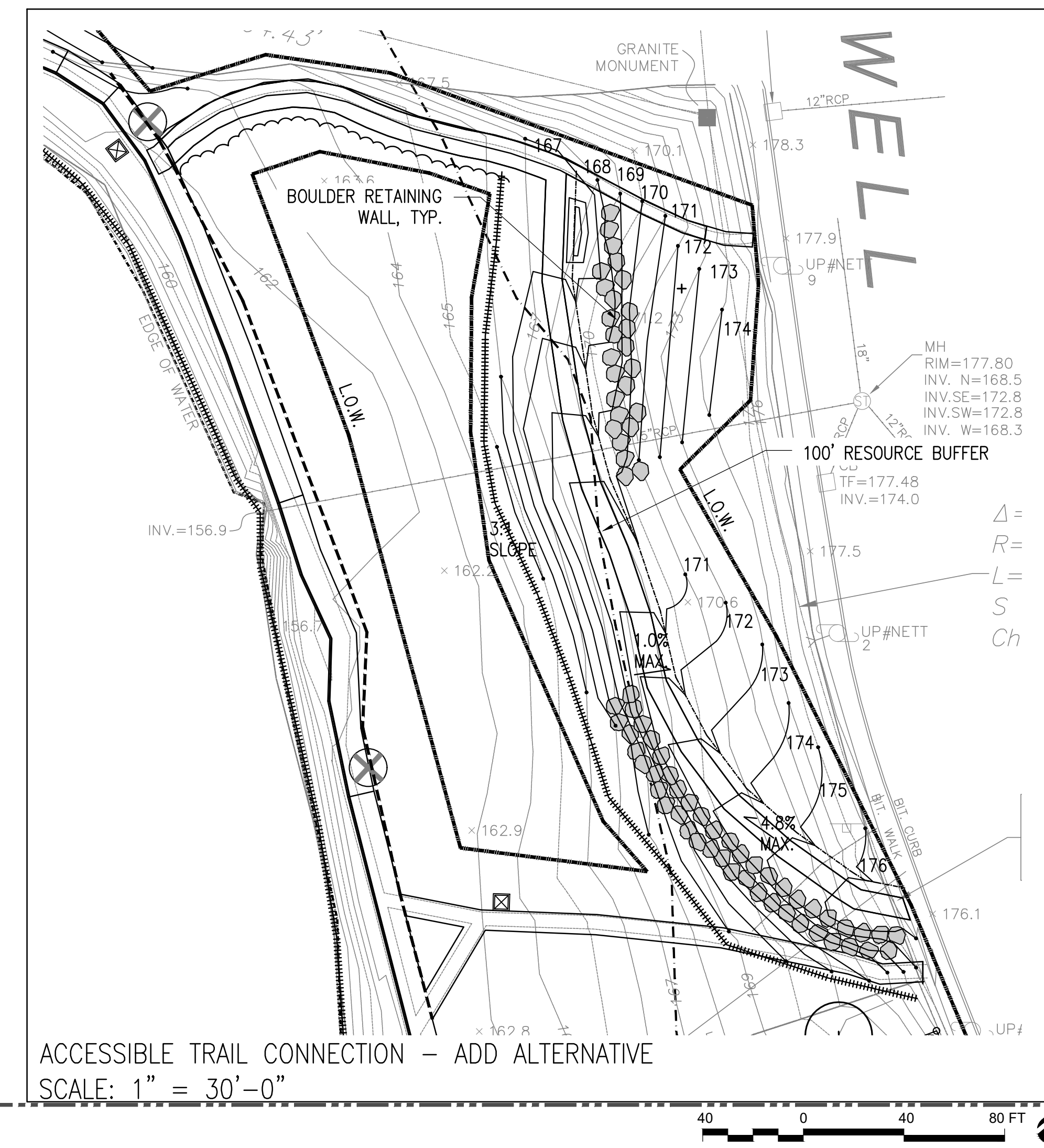
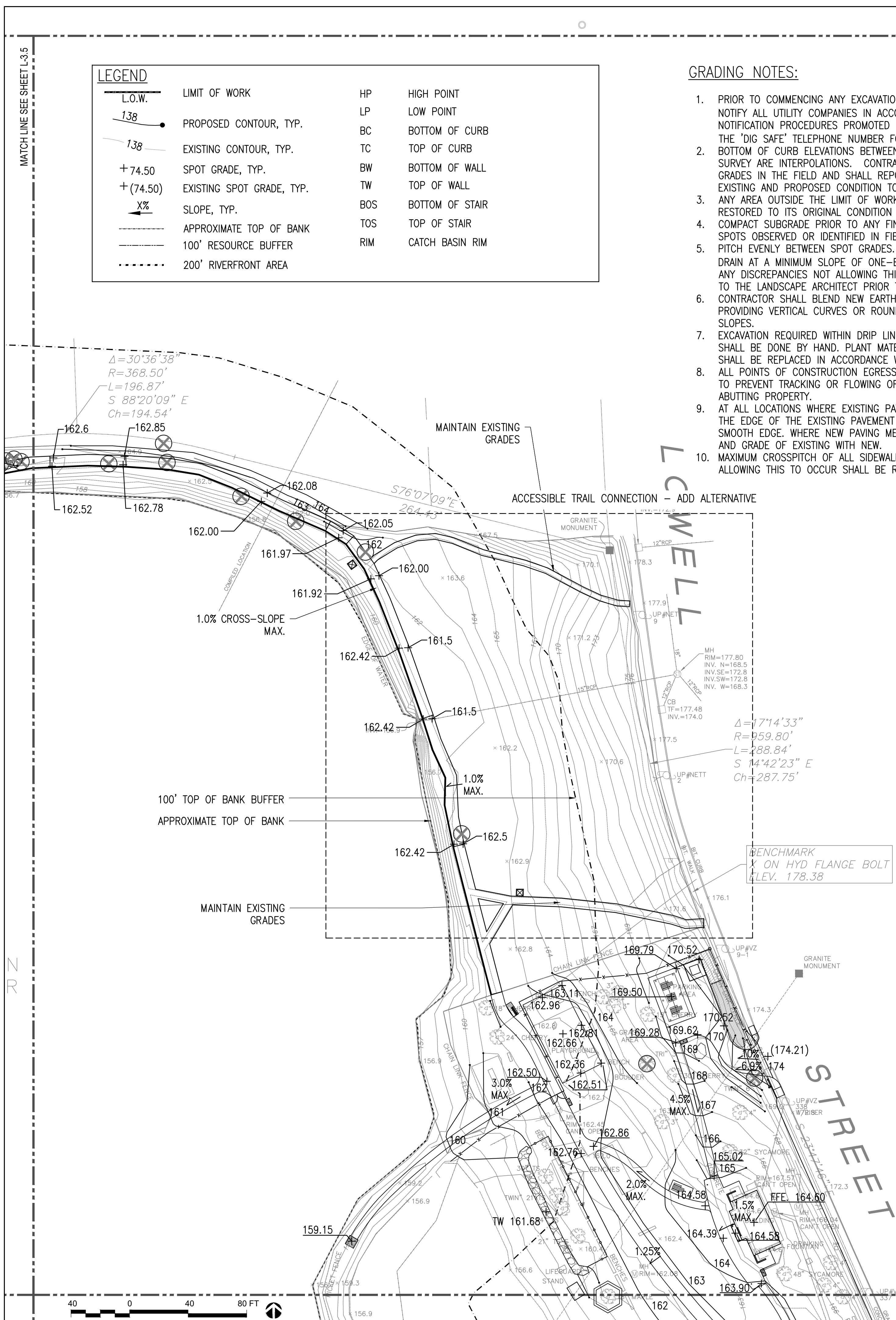
KEY PLAN

LEGEND			
	LIMIT OF WORK	HP	HIGH POINT
	PROPOSED CONTOUR, TYP.	LP	LOW POINT
	EXISTING CONTOUR, TYP.	BC	BOTTOM OF CURB
	SPOT GRADE, TYP.	TC	TOP OF CURB
	EXISTING SPOT GRADE, TYP.	BW	BOTTOM OF WALL
	SLOPE, TYP.	TW	TOP OF WALL
	APPROXIMATE TOP OF BANK	BOS	BOTTOM OF STAIR
	100' RESOURCE BUFFER	TOS	TOP OF STAIR
	200' RIVERFRONT AREA	RIM	CATCH BASIN RIM

GRADING NOTES:

- PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE "DIG SAFE" TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.
- BOTTOM OF CURB ELEVATIONS BETWEEN EXISTING SPOT GRADES SHOWN ON SURVEY ARE INTERPOLATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITION TO THE LANDSCAPE ARCHITECT.
- ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
- COMPACT SUBGRADE PRIOR TO ANY FINISH GRADING. REMOVE ALL SOFT SPOTS OBSERVED OR IDENTIFIED IN FIELD.
- PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.
- EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR ADJUTING PROPERTY.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW.
- MAXIMUM CROSSPITCH OF ALL SIDEWALKS IS 2%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.

- ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE OFFICIAL MANUAL OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR BUILDINGS AND FACILITIES, LATEST EDITION. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE GUIDELINE PROVIDING GREATER ACCESS SHALL APPLY.
- UTILITIES SHOWN ON THIS PLAN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN OR ADJUST TO PROPOSED FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POSTS, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON UTILITY DRAWINGS OR AS DIRECTED BY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES, UNLESS OTHERWISE NOTED ON DRAWINGS.
- LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE.
- EROSION CONTROL BLANKETS SHALL BE USED ON NEWLY GRADED SLOPES THAT ARE EQUAL TO OR STEEPER THAN A 3:1 SLOPE.
- DUE TO TIGHT GRADING REQUIREMENTS FOR PAVED SURFACES, CONTRACTOR SHALL REVIEW GRADING WITH LANDSCAPE ARCHITECT AT THE COMPLETION OF ROUGH GRADING AND AT THE COMPLETION OF BINDER COURSE FOR EACH PHASE.



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kzla
Kylie Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com

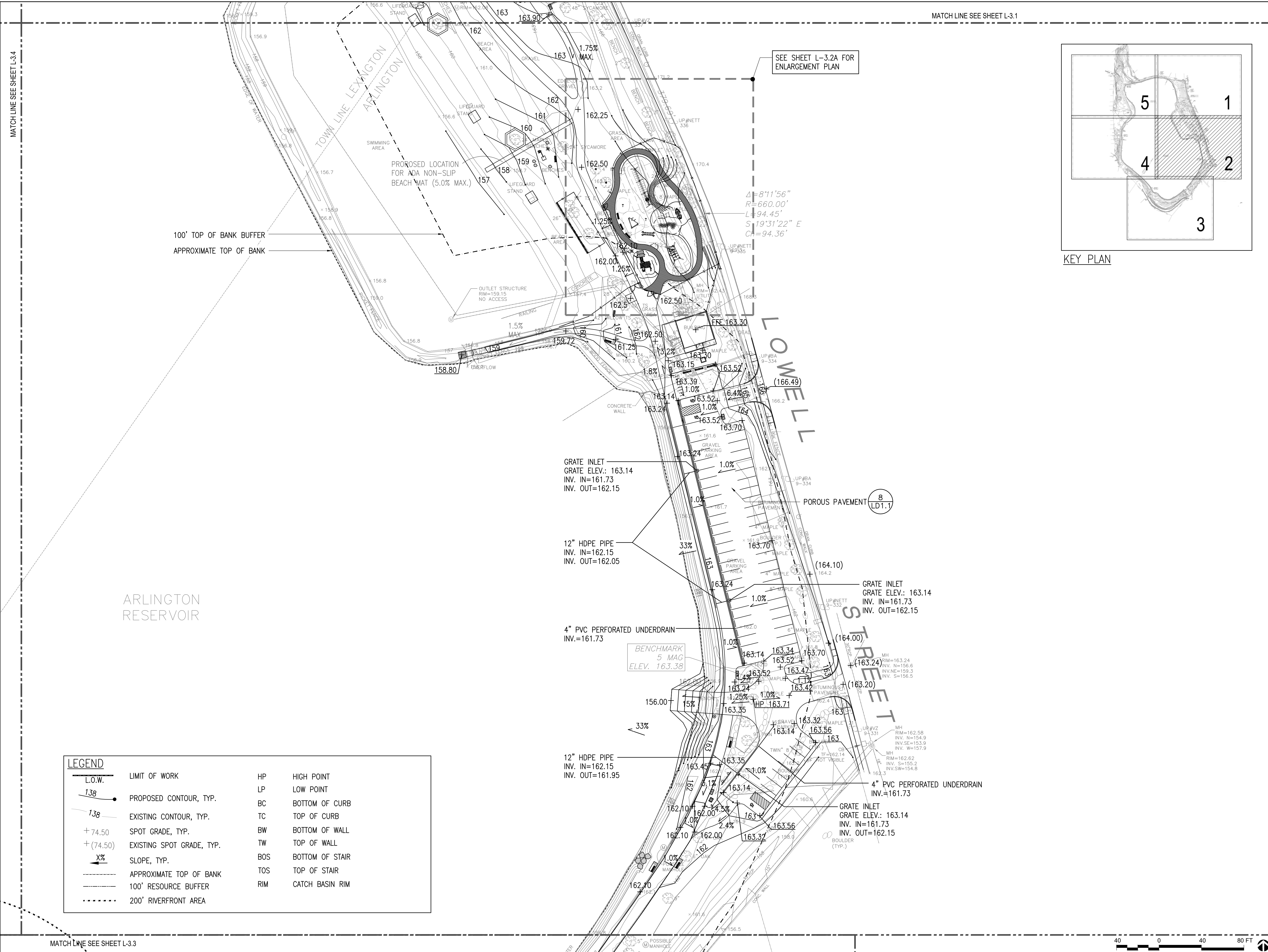


100% DESIGN DEVELOPMENT SET

Job Number:
Project: ARLINGTON RES.
Drawn By: JLM/DRB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: 1"=40'-0"
Drawing Title:

GRADING PLAN

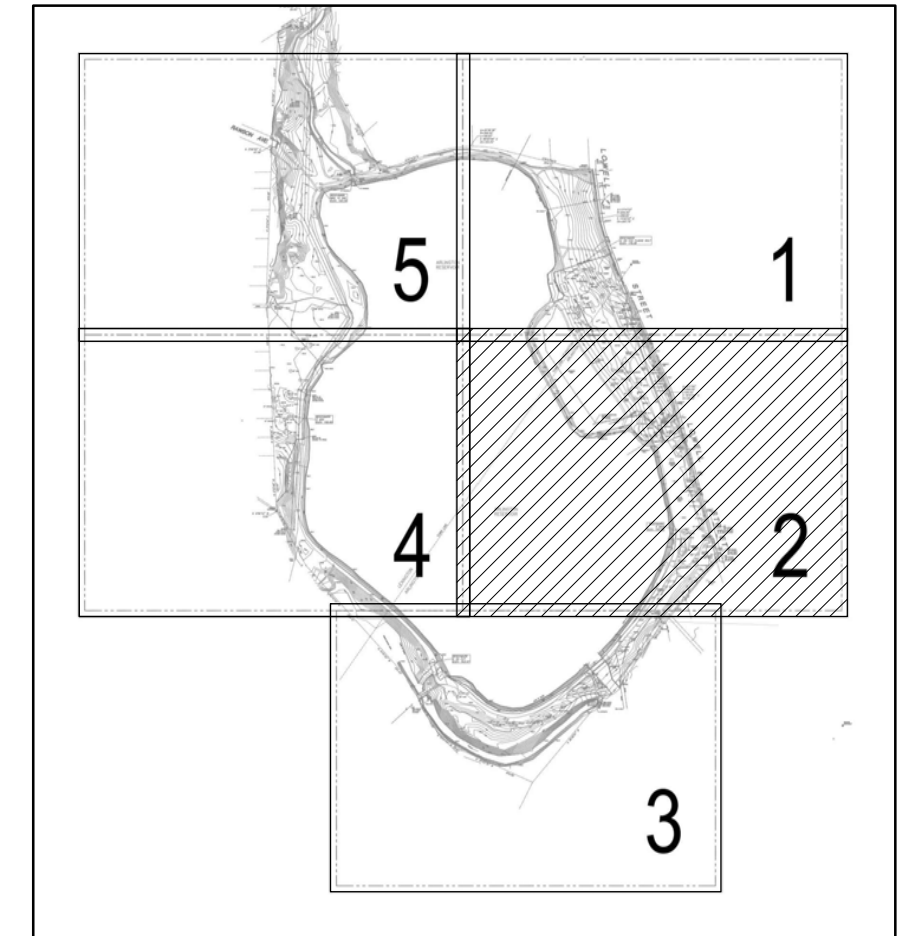
L3.1



MATCH LINE SEE SHEET L-3.1

MATCH LINE SEE SHEET L-3.4

SEE SHEET L-3.2A FOR ENLARGEMENT PLAN



KEY PLAN

$$\Delta = 8^{\circ}11'56''$$

$$R = 660.00'$$

$$L = 94.45'$$

$$S = 19^{\circ}31'22'' E$$

$$CA = 94.36'$$

100' TOP OF BANK BUFFER
APPROXIMATE TOP OF BANK

PROPOSED LOCATION FOR ADA NON-SLIP BEACH MAT (5.0% MAX.)

GRATE INLET
GRATE ELEV.: 163.14
INV. IN=161.73
INV. OUT=162.15

12" HDPE PIPE
INV. IN=162.15
INV. OUT=162.05

POROUS PAVEMENT (8 LD1.1)

GRATE INLET
GRATE ELEV.: 163.14
INV. IN=161.73
INV. OUT=162.15

4" PVC PERFORATED UNDERDRAIN
INV.=161.73

BENCHMARK
5 MAG
ELEV. 163.38

12" HDPE PIPE
INV. IN=162.15
INV. OUT=161.95

GRATE INLET
GRATE ELEV.: 163.14
INV. IN=161.73
INV. OUT=162.15

4" PVC PERFORATED UNDERDRAIN
INV.=161.73

LEGEND			
— L.O.W.	LIMIT OF WORK	HP	HIGH POINT
— 1.38	PROPOSED CONTOUR, TYP.	LP	LOW POINT
— 1.38	EXISTING CONTOUR, TYP.	BC	BOTTOM OF CURB
+ 74.50	SPOT GRADE, TYP.	TC	TOP OF CURB
+ (74.50)	EXISTING SPOT GRADE, TYP.	BW	BOTTOM OF WALL
X%	SLOPE, TYP.	TW	TOP OF WALL
---	APPROXIMATE TOP OF BANK	BOS	BOTTOM OF STAIR
---	100' RESOURCE BUFFER	TOS	TOP OF STAIR
---	200' RIVERFRONT AREA	RIM	CATCH BASIN RIM

MATCH LINE SEE SHEET L-3.3



ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON

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Kylie Zick Landscape Architecture, Inc.
36 Bronfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



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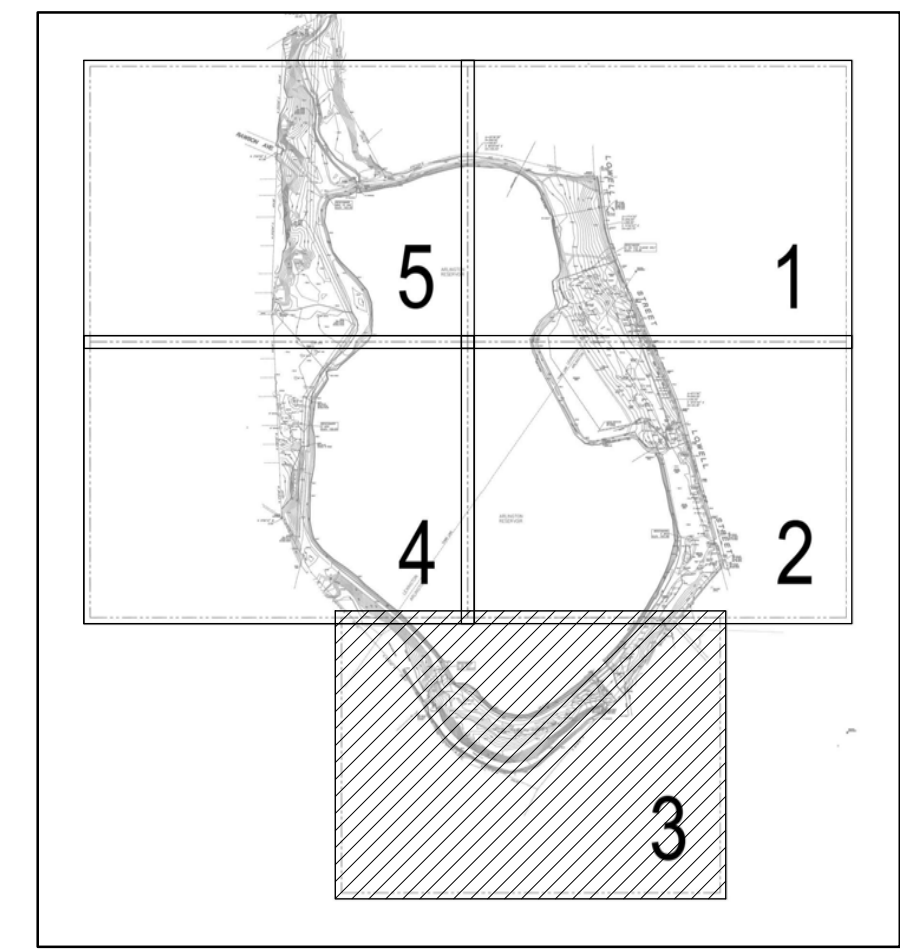
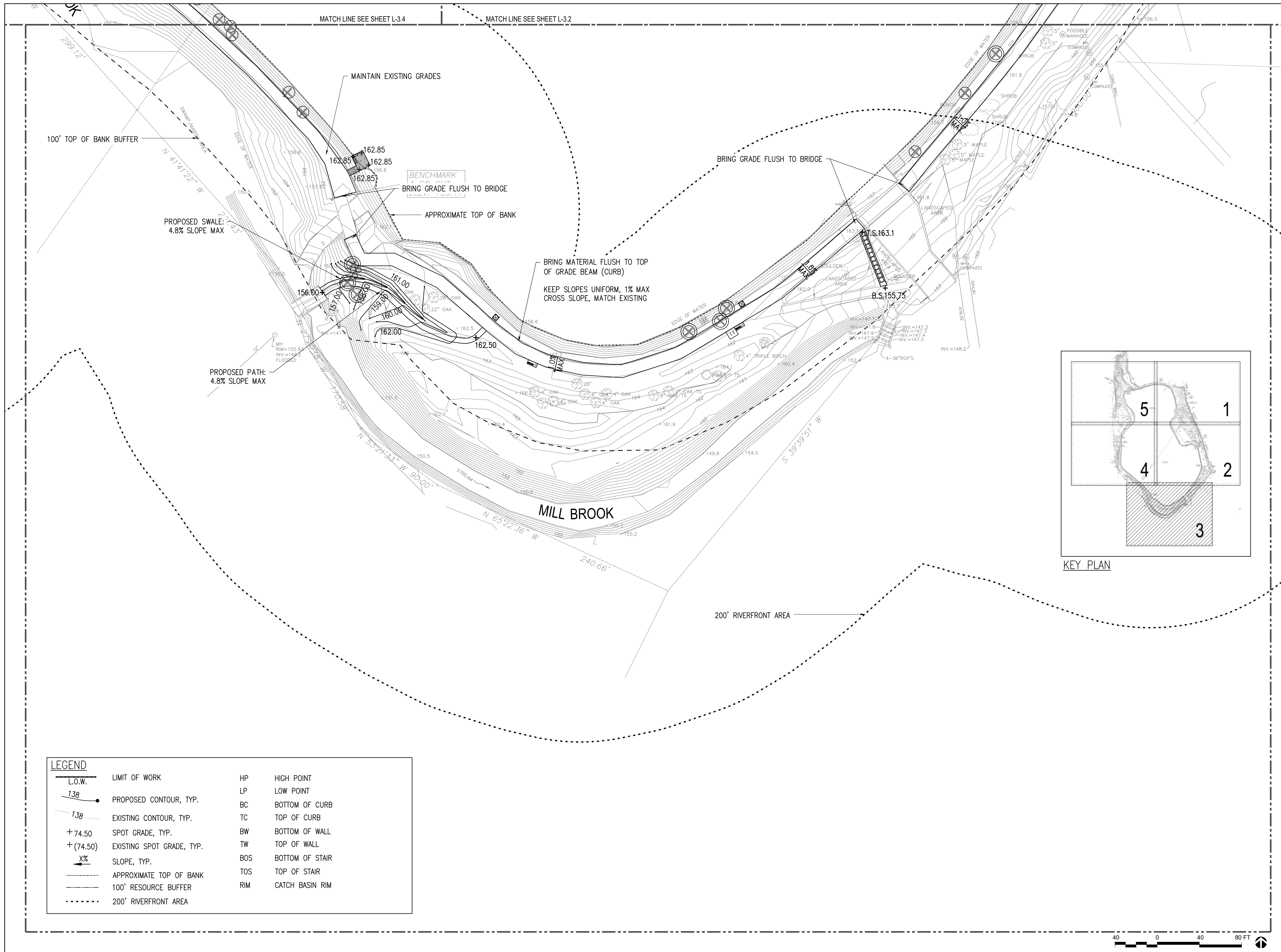
Job Number:
Project: ARLINGTON RES.
Drawn By: JL/MD/RB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: 1"=40'-0"

Drawing Title:

GRADING PLAN

**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN

LEGEND			
	L.O.W.	LIMIT OF WORK	
	138	PROPOSED CONTOUR, TYP.	
	138	EXISTING CONTOUR, TYP.	
	+ 74.50	SPOT GRADE, TYP.	
	+ (74.50)	EXISTING SPOT GRADE, TYP.	
	X%	SLOPE, TYP.	
		APPROXIMATE TOP OF BANK	
		100' RESOURCE BUFFER	
		200' RIVERFRONT AREA	
	HP	HIGH POINT	
	LP	LOW POINT	
	BC	BOTTOM OF CURB	
	TC	TOP OF CURB	
	BW	BOTTOM OF WALL	
	TW	TOP OF WALL	
	BOS	BOTTOM OF STAIR	
	TOS	TOP OF STAIR	
	RIM	CATCH BASIN RIM	

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36 Bromfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



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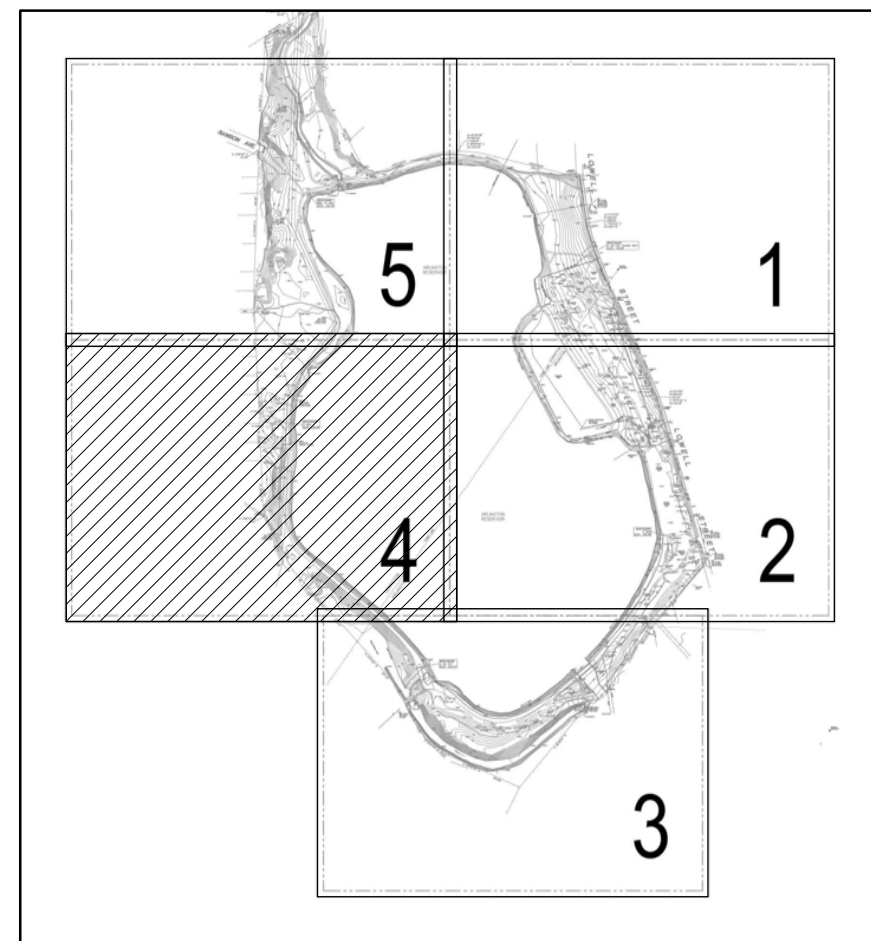
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GRADING PLAN

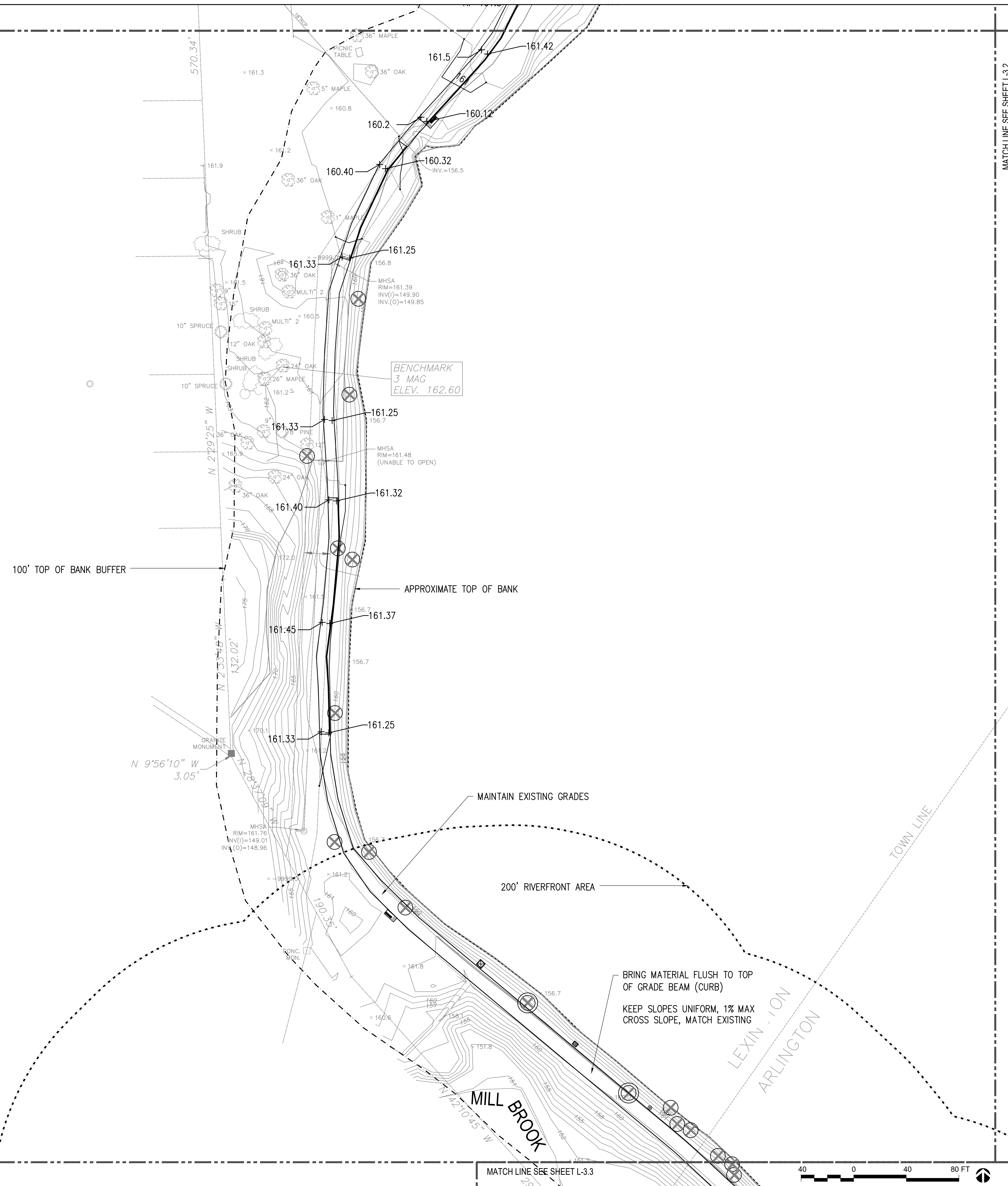


**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN



LEGEND			
	LIMIT OF WORK	HP	HIGH POINT
	PROPOSED CONTOUR, TYP.	LP	LOW POINT
	EXISTING CONTOUR, TYP.	BC	BOTTOM OF CURB
	SPOT GRADE, TYP.	TC	TOP OF CURB
	EXISTING SPOT GRADE, TYP.	BW	BOTTOM OF WALL
	SLOPE, TYP.	TW	TOP OF WALL
	APPROXIMATE TOP OF BANK	BOS	BOTTOM OF STAIR
	100' RESOURCE BUFFER	TOS	TOP OF STAIR
	200' RIVERFRONT AREA	RIM	CATCH BASIN RIM

MATCH LINE SEE SHEET L-3.2

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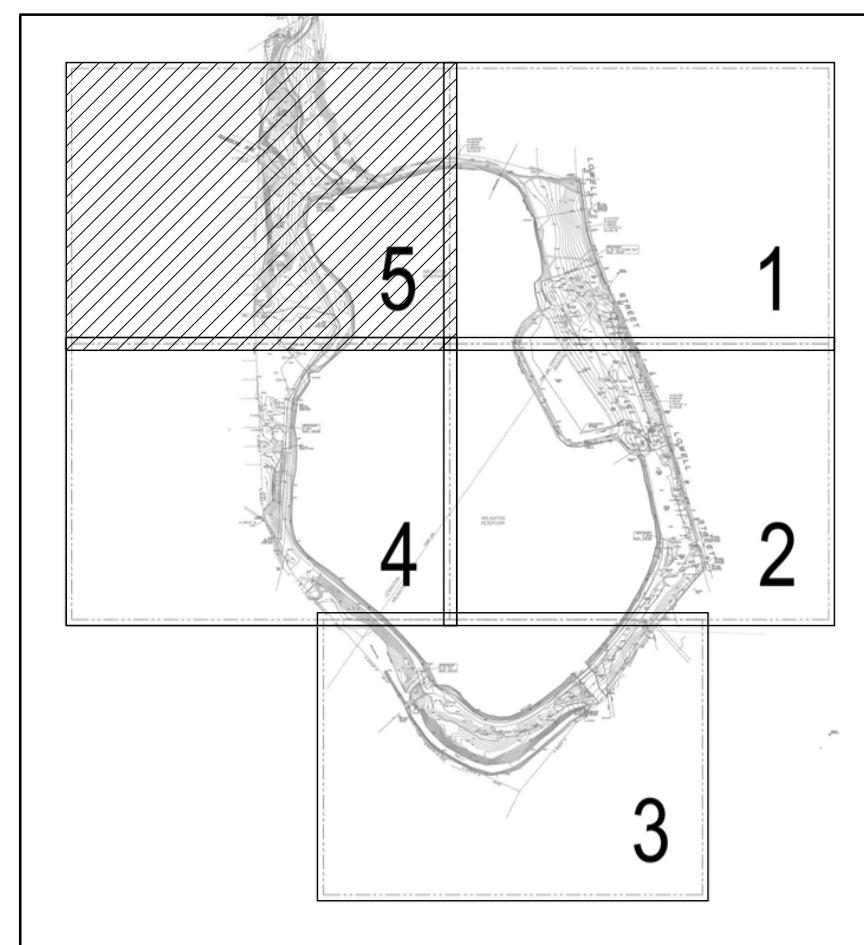
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Project: ARLINGTON RES.
Drawn By: JL/MD/RB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: 1"=40'-0"
Drawing Title:

GRADING PLAN

ARLINGTON
RESERVOIR -
PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



KEY PLAN

200' RIVERFRONT AREA

RAWSON AVE.

MUNROE BROOK

ARLINGTON
RESERVOIR

LEGEND			
	L.O.W. LIMIT OF WORK		HP HIGH POINT
	PROPOSED CONTOUR, TYP.		LP LOW POINT
	EXISTING CONTOUR, TYP.		BC BOTTOM OF CURB
	SPOT GRADE, TYP.		TC TOP OF CURB
	EXISTING SPOT GRADE, TYP.		BW BOTTOM OF WALL
	SLOPE, TYP.		TW TOP OF WALL
	APPROXIMATE TOP OF BANK		BOS BOTTOM OF STAIR
	100' RESOURCE BUFFER		TOS TOP OF STAIR
	200' RIVERFRONT AREA		RIM CATCH BASIN RIM

100' TOP OF BANK BUFFER

APPROXIMATE TOP OF BANK

1.0% CROSS-SLOPE
MAX.

1.0% CROSS-SLOPE
MAX.

BENCHMARK
MAG 15 OAK
ELEV. 163.39

MATCHLINE SEE SHEET L-3.1

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Boston, MA 02108
617 451-1018 Tel
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Drawing Title:

GRADING PLAN

MATCHLINE SEE SHEET L-3.4

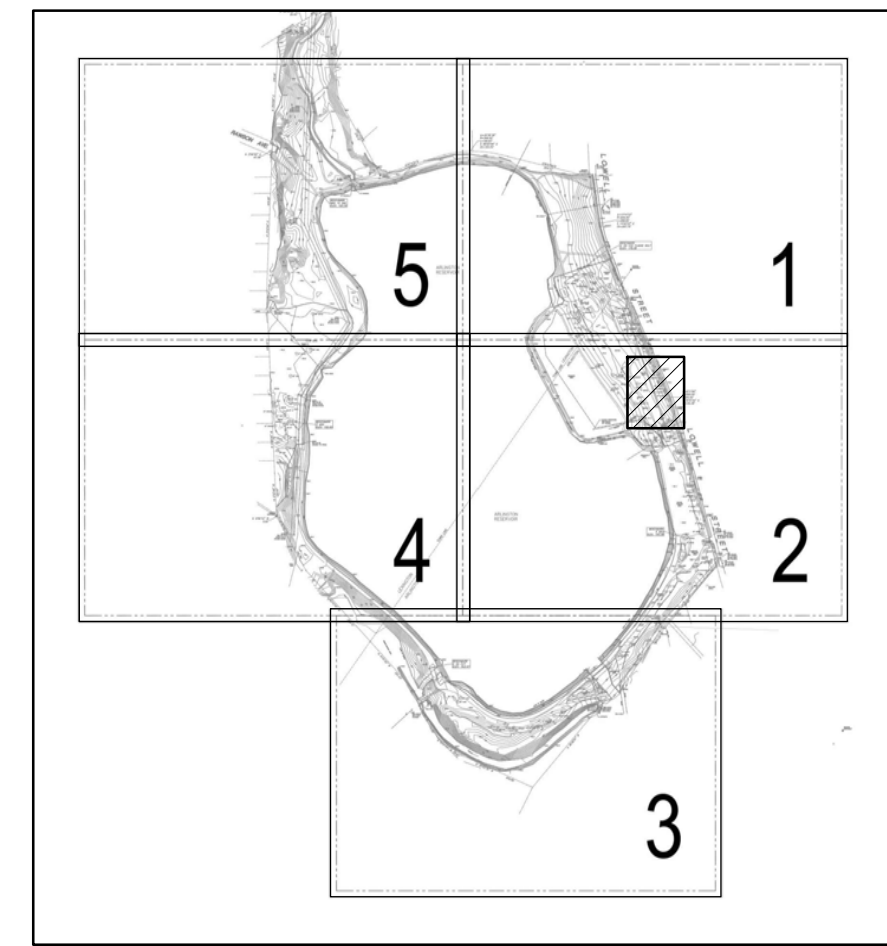


L3.5

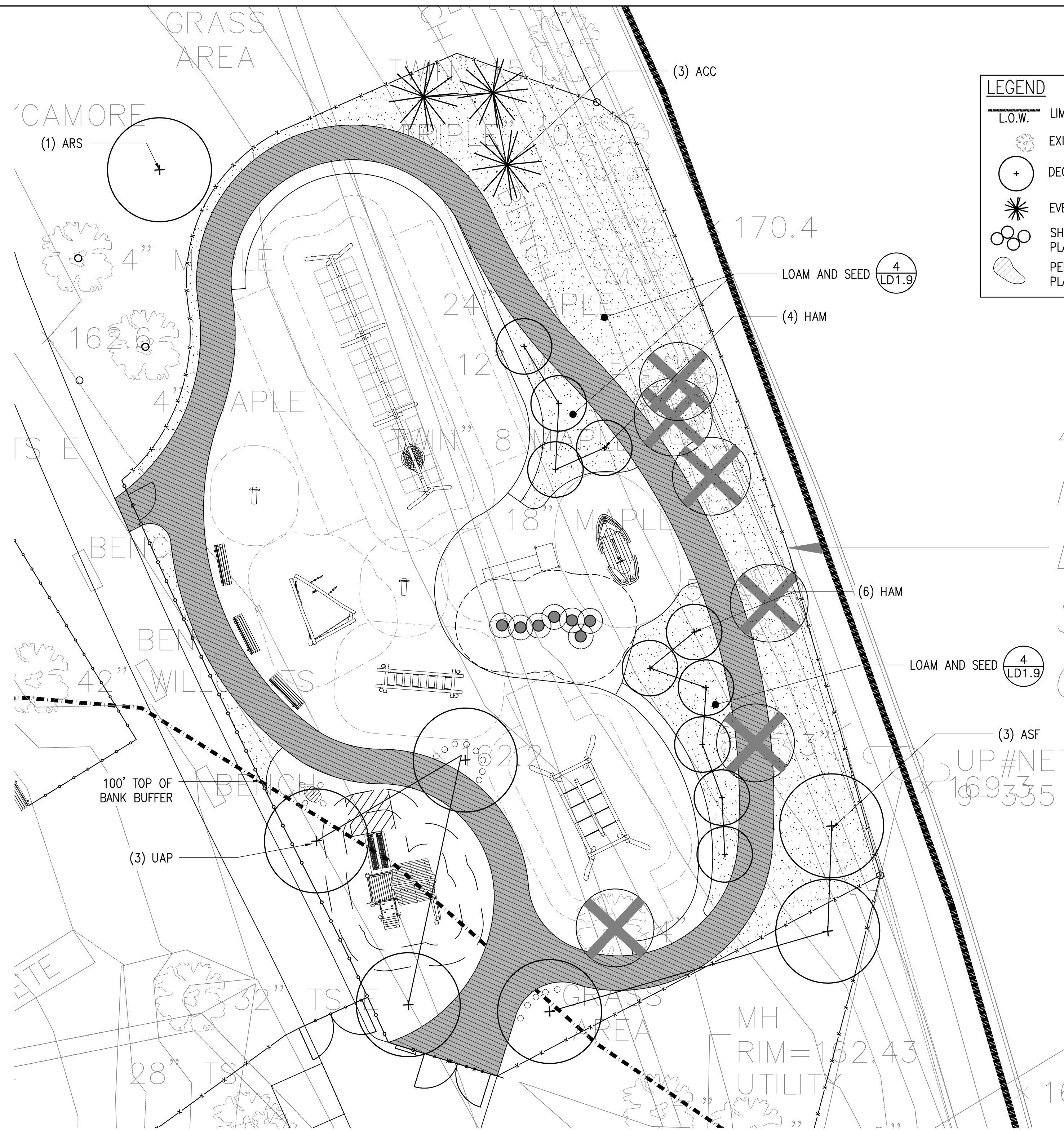
**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



KEY PLAN



1 ENLARGEMENT PLAN

SCALE: 1"=10'-0"

PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
DECIDUOUS TREES					EVERGREEN TREES					
AMC	5	AMENLANCHIER CANADENSIS	SERVICEBERRY	3" CAL.	ACC	3	ABIES CONCOLOR	WHITE FIR	8-10' HT.	
ARS	3	ACER RUBRUM 'RED SUNSET'	RED MAPLE	3" CAL.						
ARO	3	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	3" CAL.	SHRUBS					
ASF	3	ACER SACCHARUM 'FALL FIESTA'	SUGAR MAPLE	3" CAL.	aab	35	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	RED CHOKEBERRY	5 GAL.	3'-0" O.C.
BEL	6	BETULA POPULIFOLIA	GRAY BIRCH	12' CLUMP	cah	12	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	COMPACT SWEET PEPPERBUSH	5 GAL.	3'-0" O.C.
HAM	14	HAMAMELIS VIRGINIANA	WITCHHAZEL	8' CLUMP	cea	33	CEANOTHUS AMERICANUS	NEW JERSEY TEA	5 GAL.	3'-0" O.C.
LDT	3	LIRIODENDRON TULIPIFERA	TULIPTREE	3" CAL.	can	22	CORNUS AMOMUM	SILKY DOGWOOD	6 GAL.	6'-0" O.C.
NYS	1	NYSSA SYLVATICA	TUPELO	2.5" CAL.	ilg	5	ILEX GLABRA	INKBERRY	5 GAL.	5'-0" O.C.
PLT	2	PLATANUS OCCIDENTALIS	SYCAMORE	2.5" CAL.	ivb	28	ILEX VERTICILLATA 'BERRY POPPINS'	COMPACT WINTERBERRY	5 GAL.	2'-6" O.C.
QUP	2	QUERCUS PALUSTRIS	PIN OAK	3" CAL.	vci	3	VIBURNUM CARLESII 'AURORA'	KOREANSPICE VIBURNUM	5 GAL.	5'-0" O.C.
UAP	3	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2.5" CAL.	GROUNDCOVER					
UAL	2	ULMUS AMERICANA 'JEFFERSON'	AMERICAN ELM	3" CAL.	auu	102	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	1 GAL.	24" O.C.
					sic	97	STEPHANANDRA INCISA 'CRISPA'	CUTLEAF STEPHANANDRA	2 GAL.	36" O.C.

LEGEND

L.O.W. LIMIT OF WORK

EXISTING TREE

DECIDUOUS TREE (7) LD1.9

EVERGREEN TREE (8) LD1.9

SHRUB PLANTING (6) LD1.9

PERENNIAL PLANTING (5) LD1.9

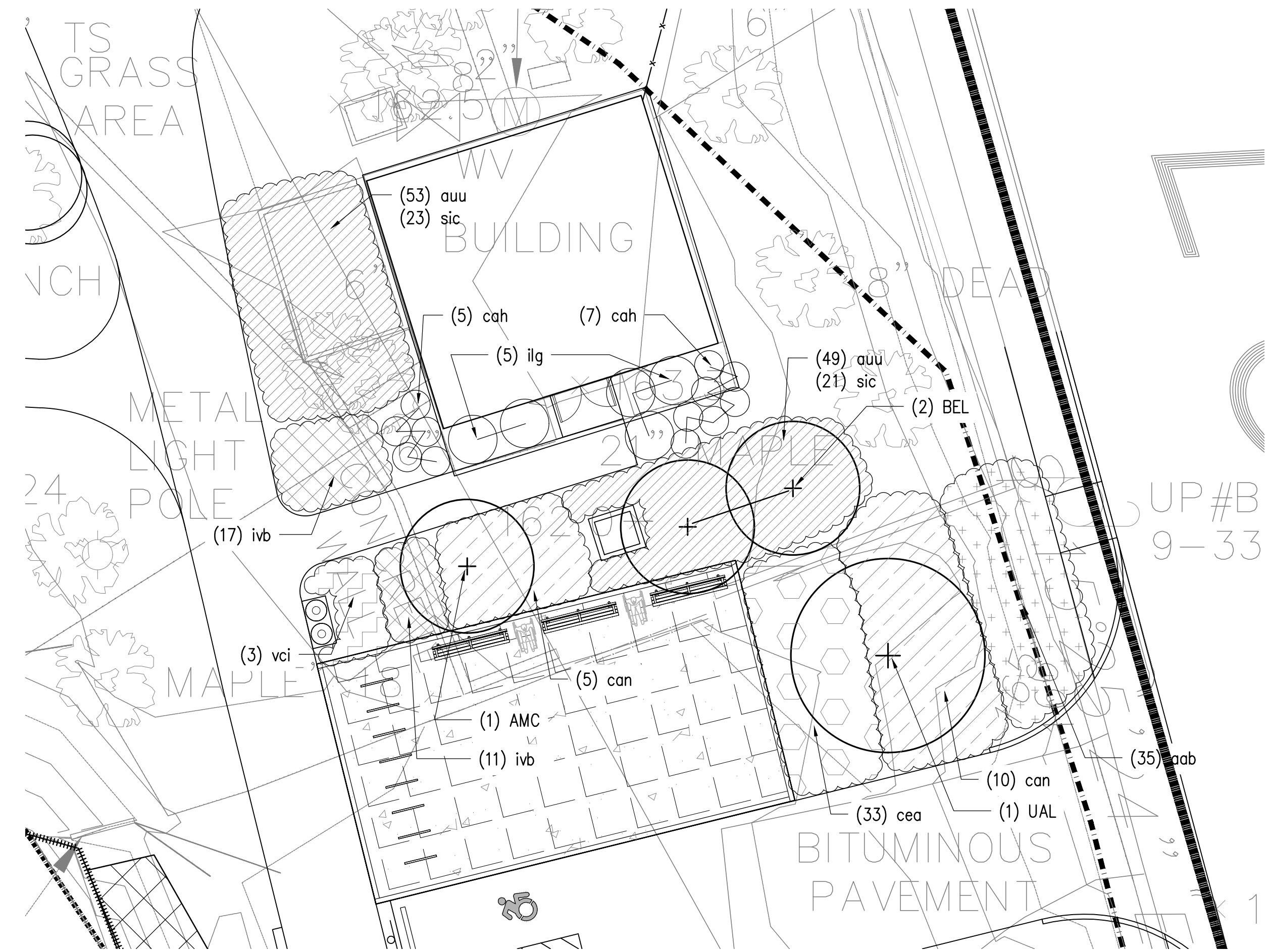
SEEDING (4) LD1.9

APPROXIMATE TOP OF BANK

100' TOP OF BANK BUFFER

200' RIVERFRONT AREA

** SEE SHEET L4.2A FOR PLANT SCHEDULE-BEACH & PLAYGROUND AREA
SEE SHEET L4.4 FOR PLANT SCHEDULE-TRAIL AREA A AND B



2 ENLARGEMENT PLAN

SCALE: 1"=10'-0"

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Kylie Zick Landscape Architecture, Inc.
36 Bronnfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



100% DESIGN DEVELOPMENT SET

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Project: ARLINGTON RES.
Drawn By: JLM/DRB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: 1"=10'-0"
Drawing Title:

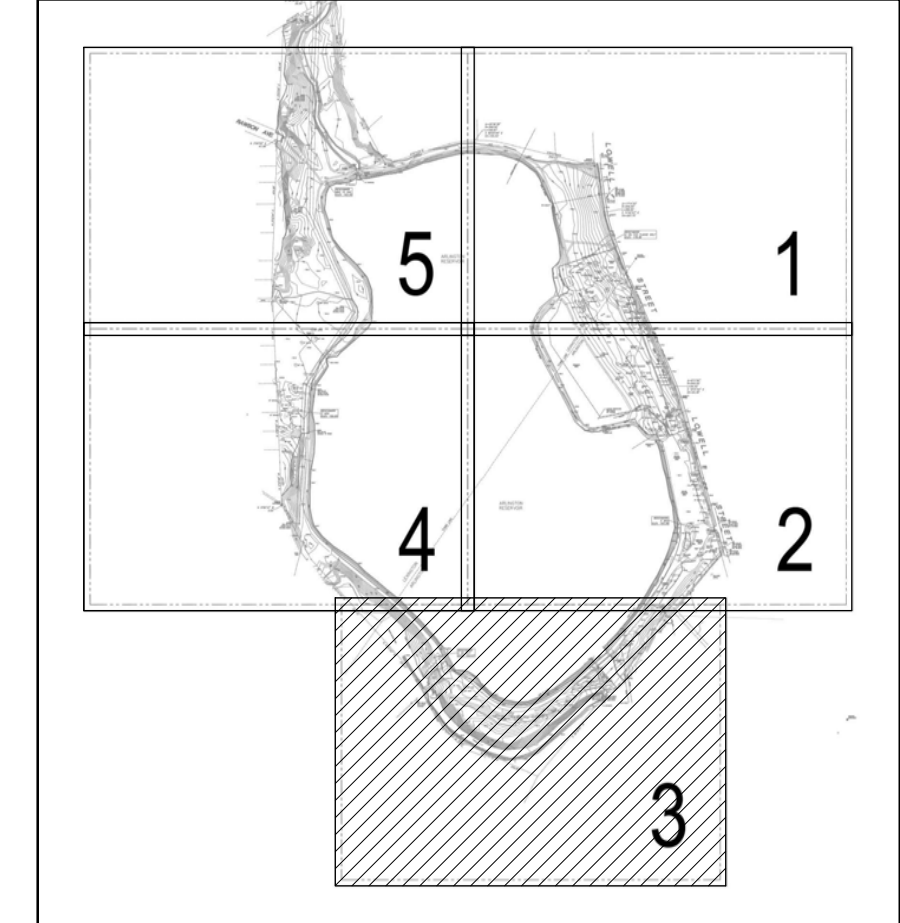
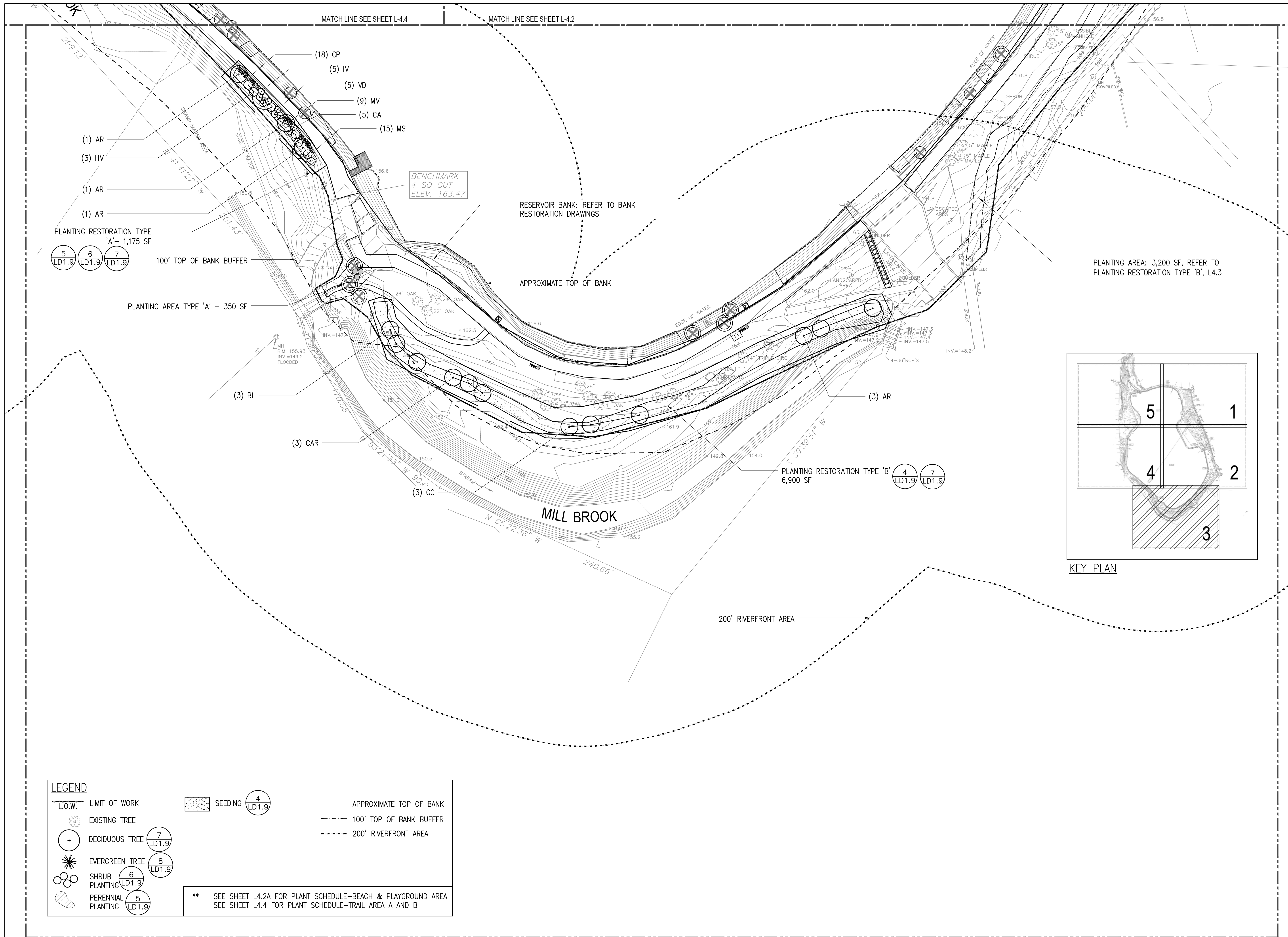
ENLARGED PLANTING PLAN

L4.2A



**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



KEY PLAN

LEGEND

L.O.W.	LIMIT OF WORK	SEEDING (4) LD1.9	----- APPROXIMATE TOP OF BANK
(Tree symbol)	EXISTING TREE		- - - 100' TOP OF BANK BUFFER
(+)	DECIDUOUS TREE (7) LD1.9		- - - 200' RIVERFRONT AREA
(Star symbol)	EVERGREEN TREE (8) LD1.9		
(Cluster of circles)	SHRUB PLANTING (6) LD1.9		
(Patched area)	PERENNIAL PLANTING (5) LD1.9		

** SEE SHEET L4.2A FOR PLANT SCHEDULE-BEACH & PLAYGROUND AREA
SEE SHEET L4.4 FOR PLANT SCHEDULE-TRAIL AREA A AND B

PLANTING AREA: 3,200 SF, REFER TO PLANTING RESTORATION TYPE 'B', L4.3

PLANTING RESTORATION TYPE 'B'
6,900 SF (4) LD1.9 (7) LD1.9

PLANTING AREA TYPE 'A' - 350 SF

PLANTING RESTORATION TYPE 'A' - 1,175 SF
(5) LD1.9 (6) LD1.9 (7) LD1.9

NO.	REVISION	DATE

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36 Bromfield Street Suite 202 617 451-1018 Tel
Boston, MA 02108 www.kyiezick.com

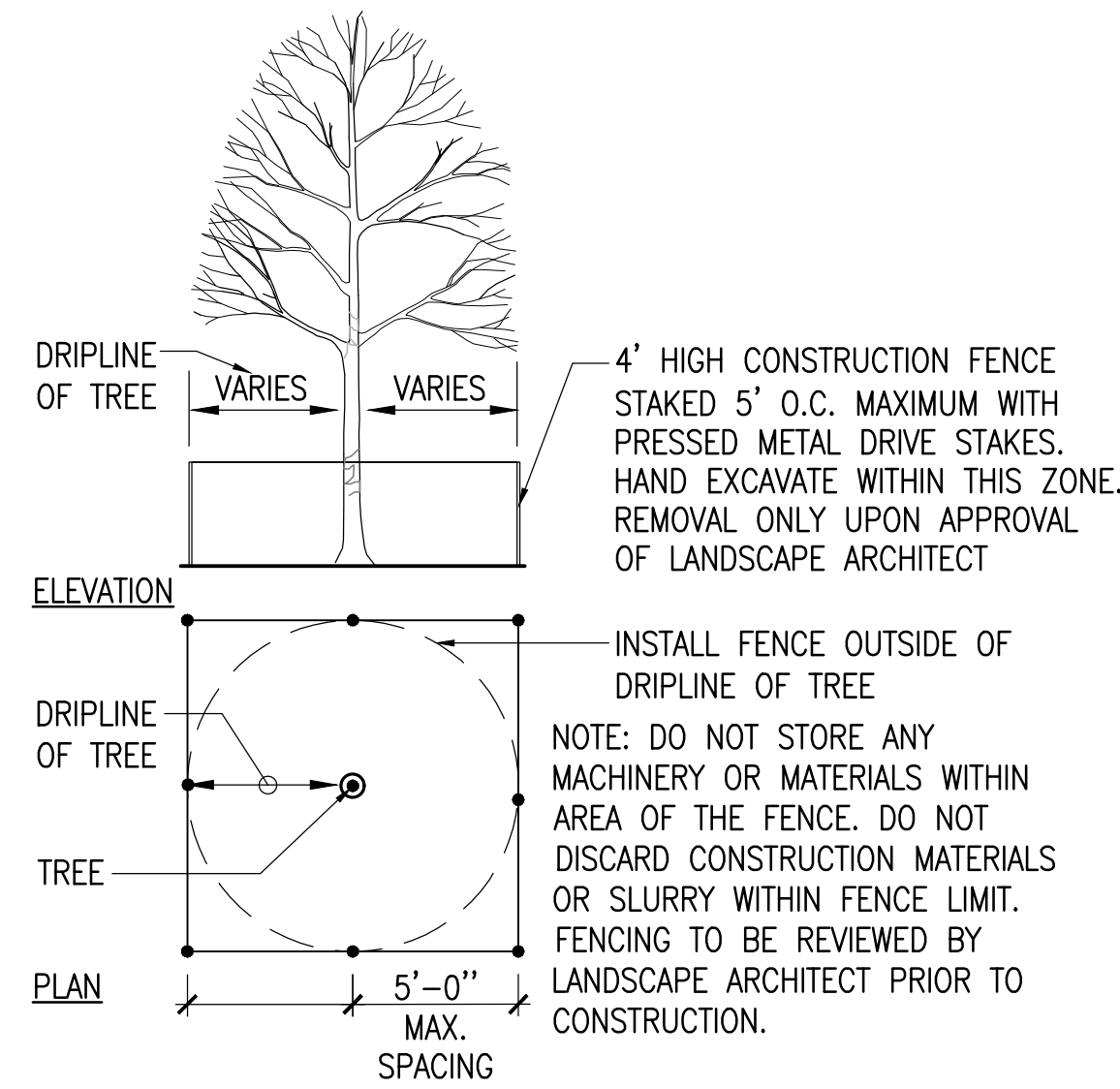


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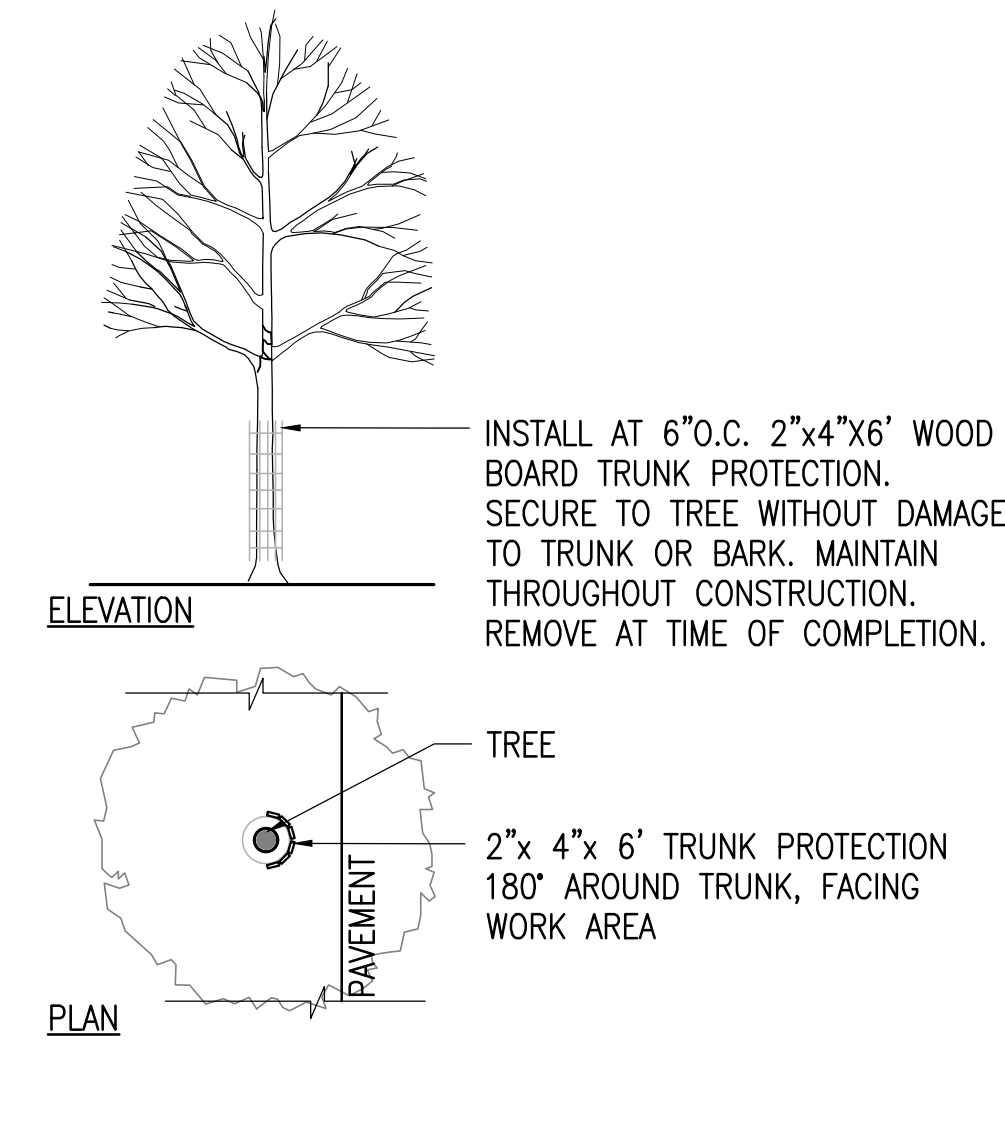
Job Number:
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Drawing Title:

PLANTING PLAN

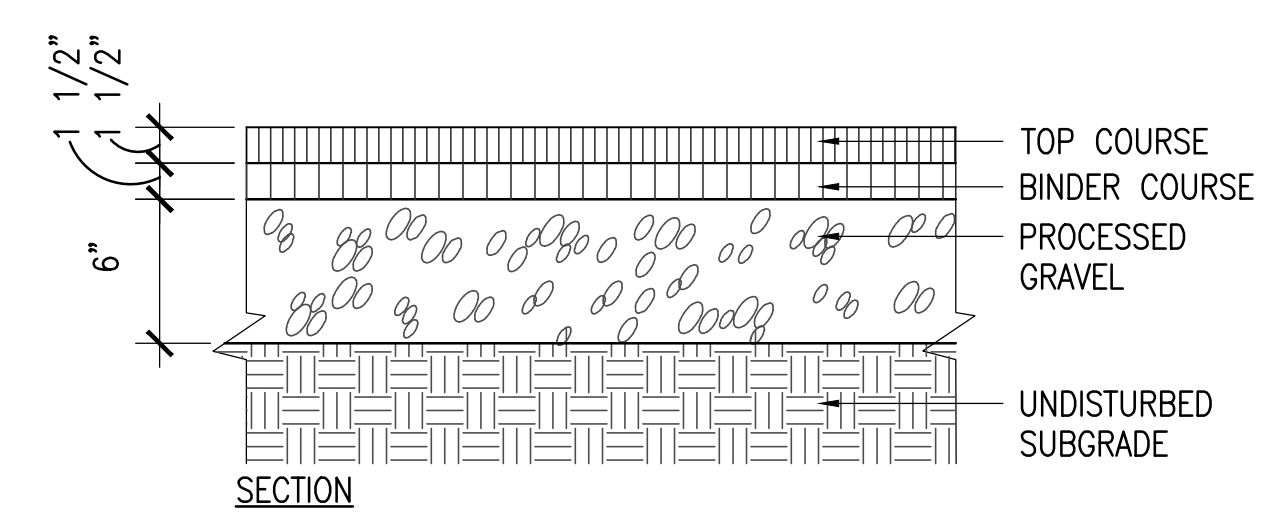




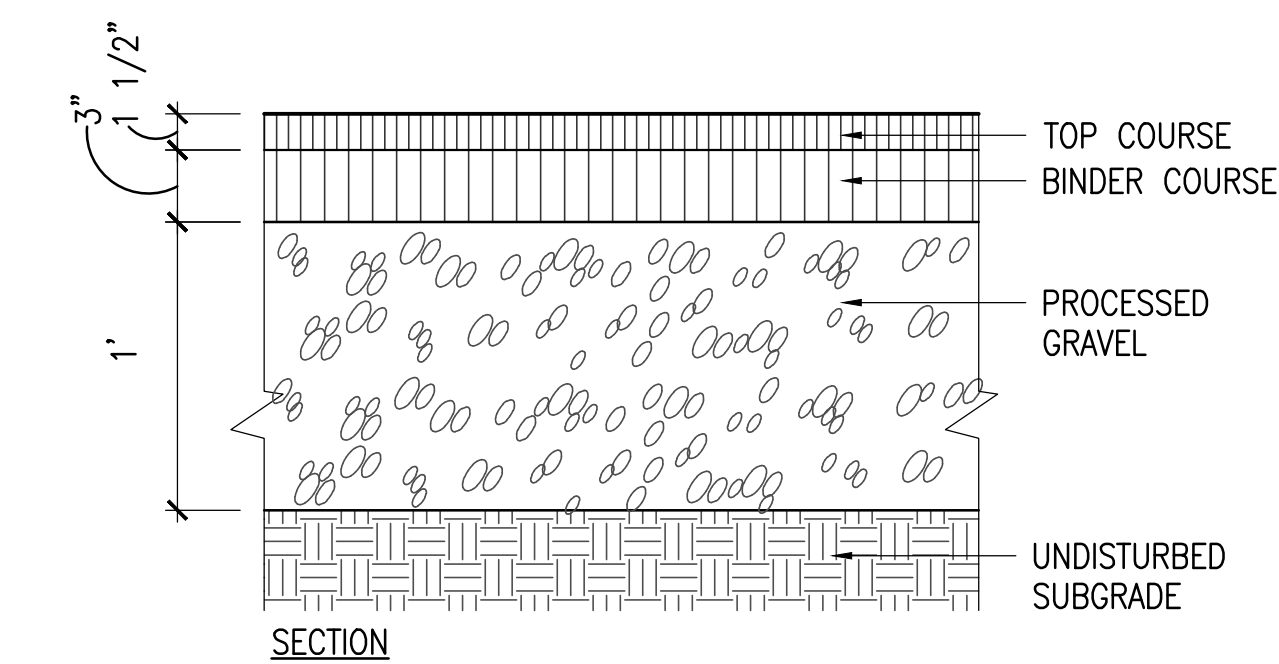
1 TREE PROTECTION - FENCE
SCALE: N.T.S.



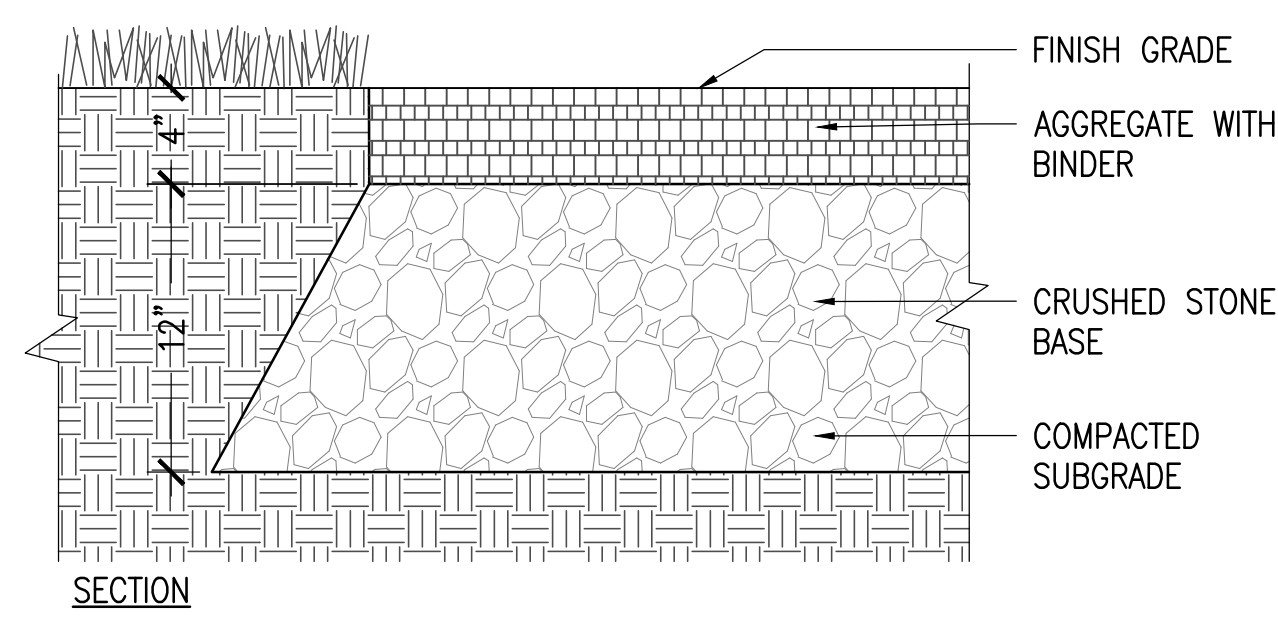
4 TREE PROTECTION - WOOD BOARD
SCALE: N.T.S.



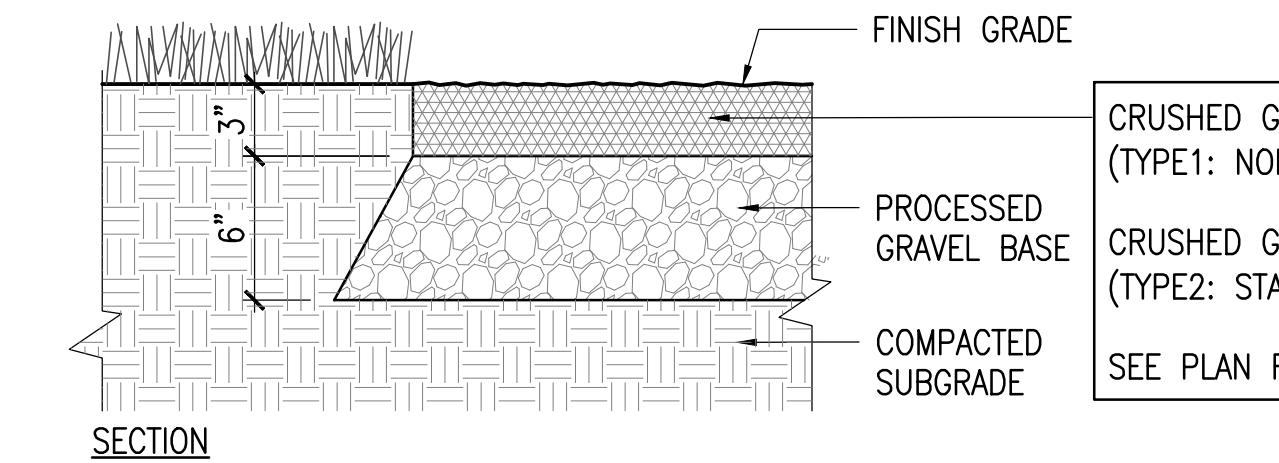
7 PEDESTRIAN ASPHALT
SCALE: 1 1/2" = 1'-0"



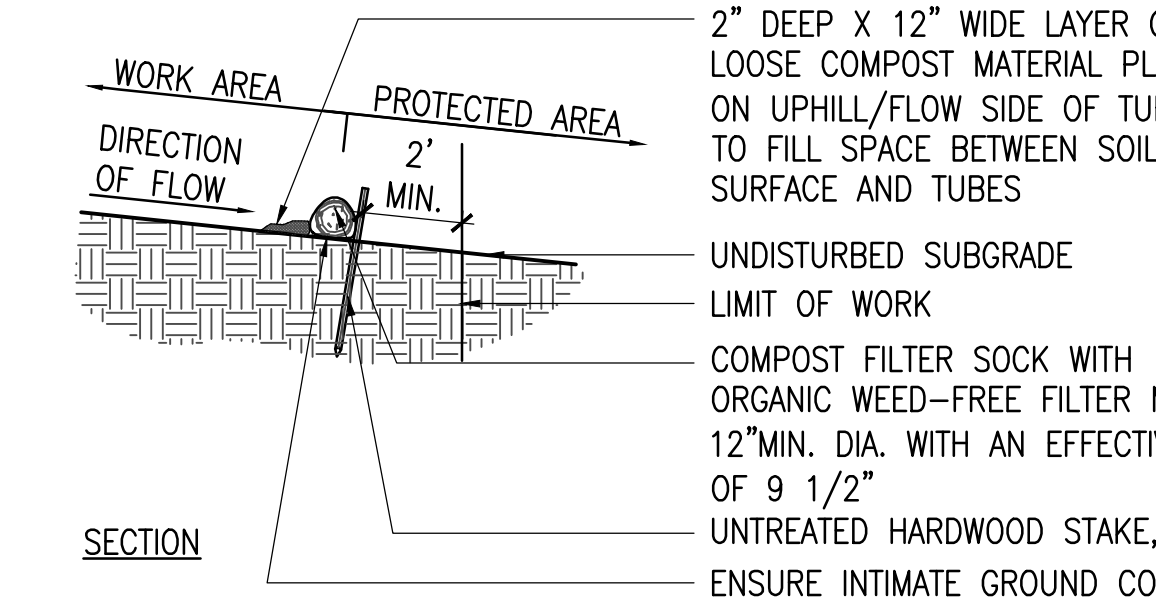
9 VEHICULAR ASPHALT
SCALE: 1 1/2" = 1'-0"



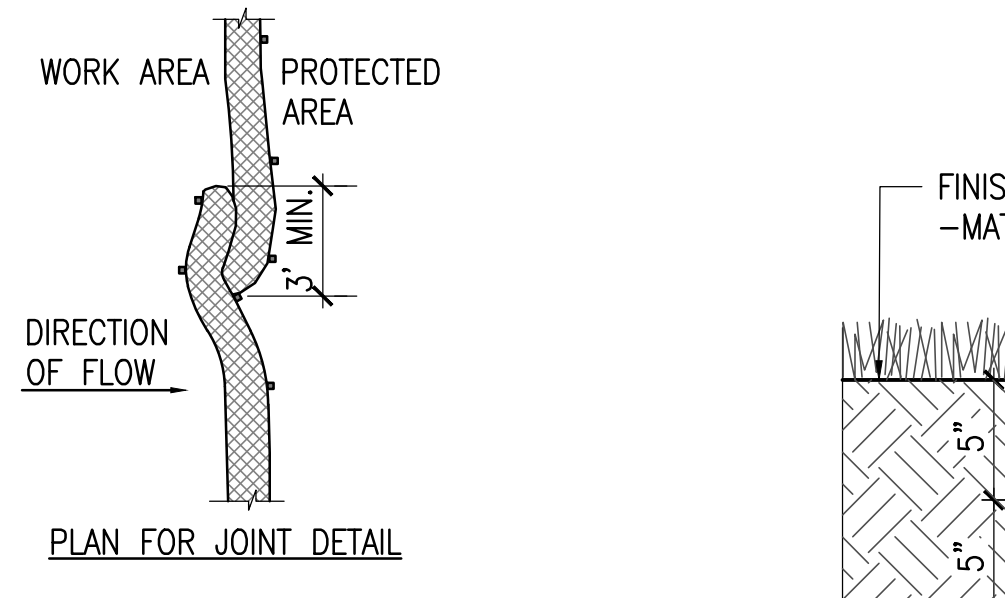
8 POROUS PAVEMENT
SCALE: 1 1/2" = 1'-0"



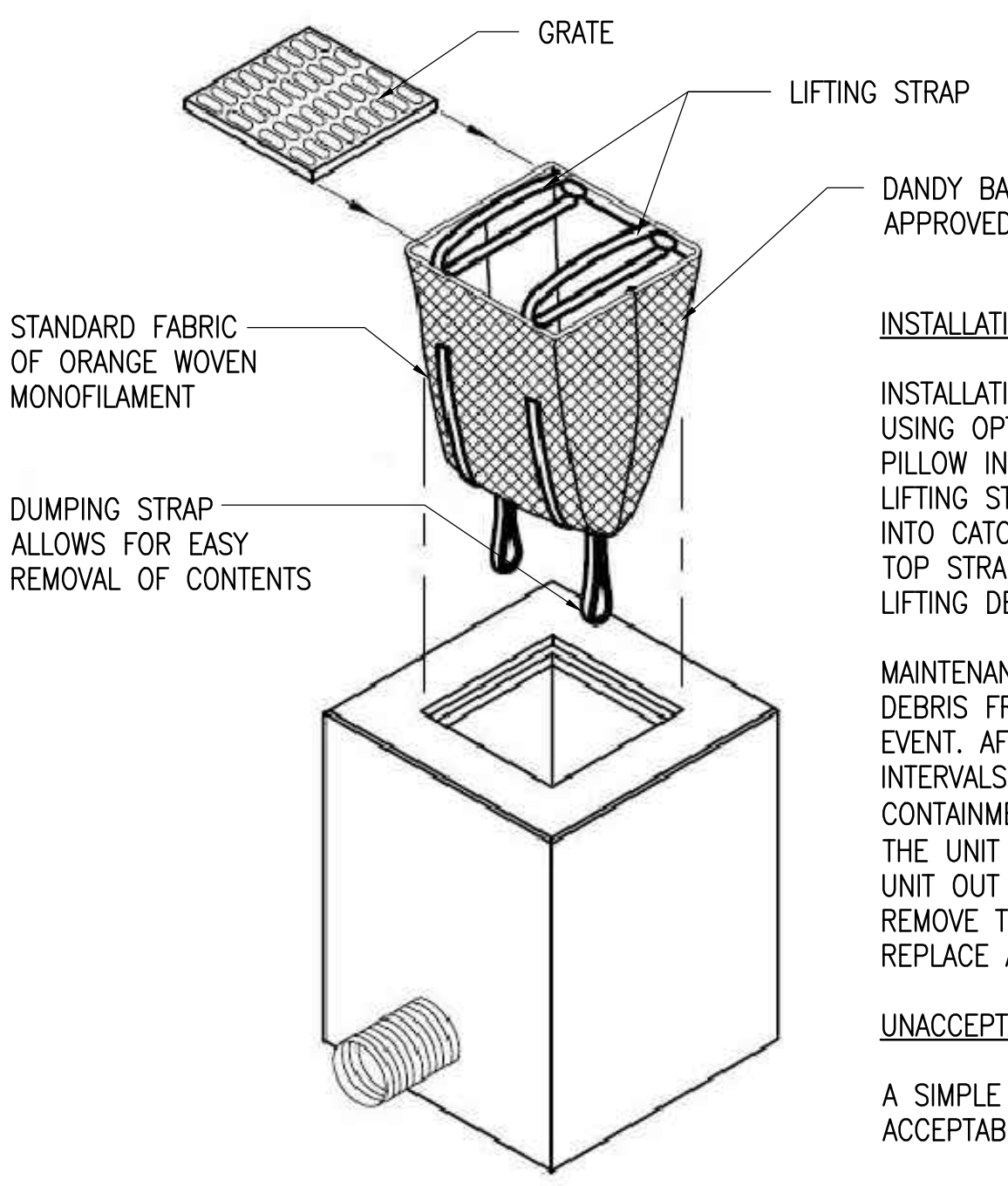
10 CRUSHED GRANITE PAVEMENT
SCALE: 1 1/2" = 1'-0"



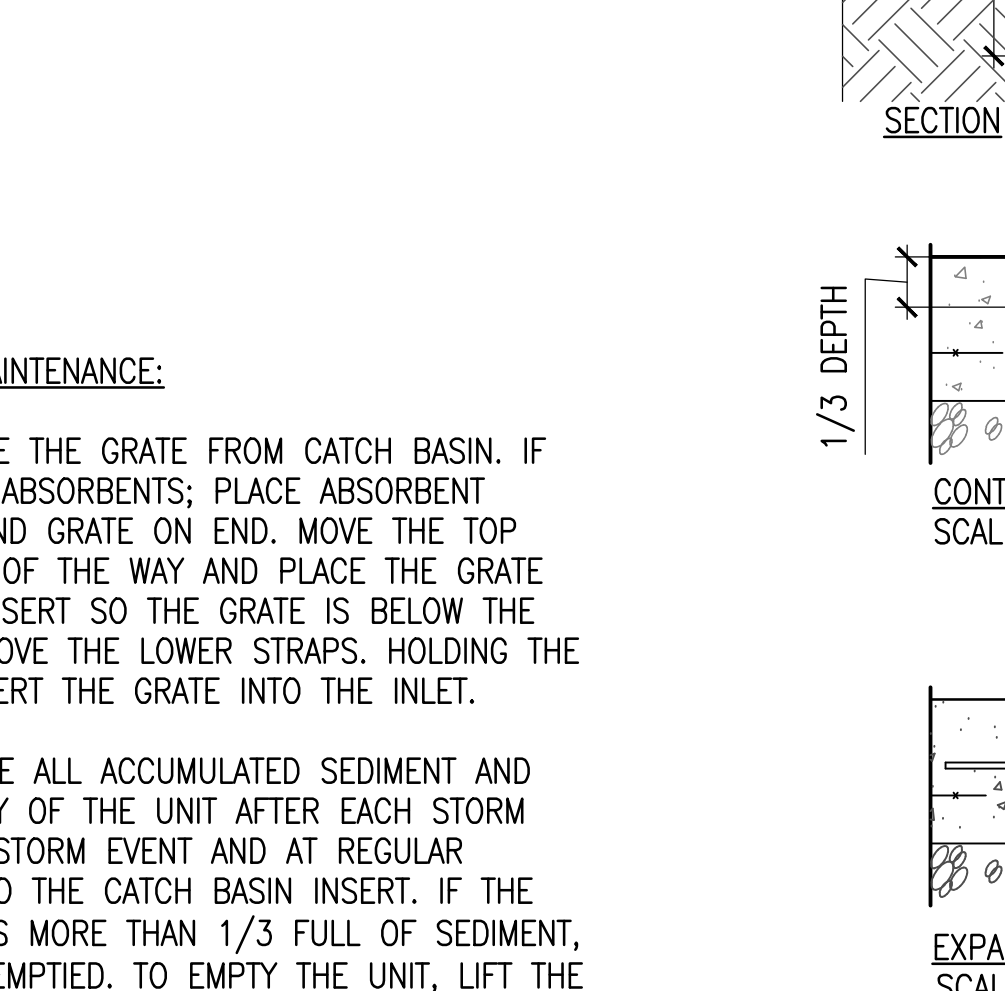
2 EROSION CONTROL - COMPOST FILTER SOCK
SCALE: N.T.S.



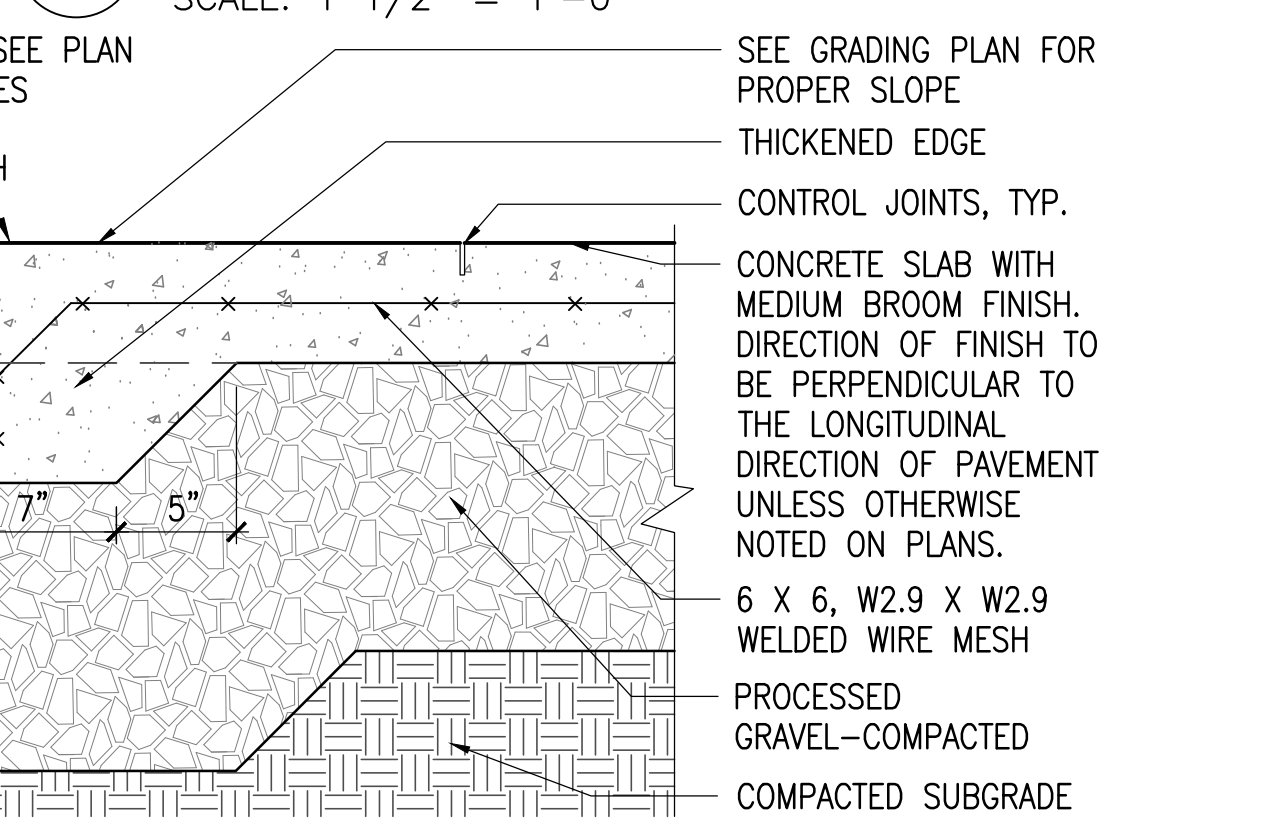
3 SILT SACK
SCALE: N.T.S.



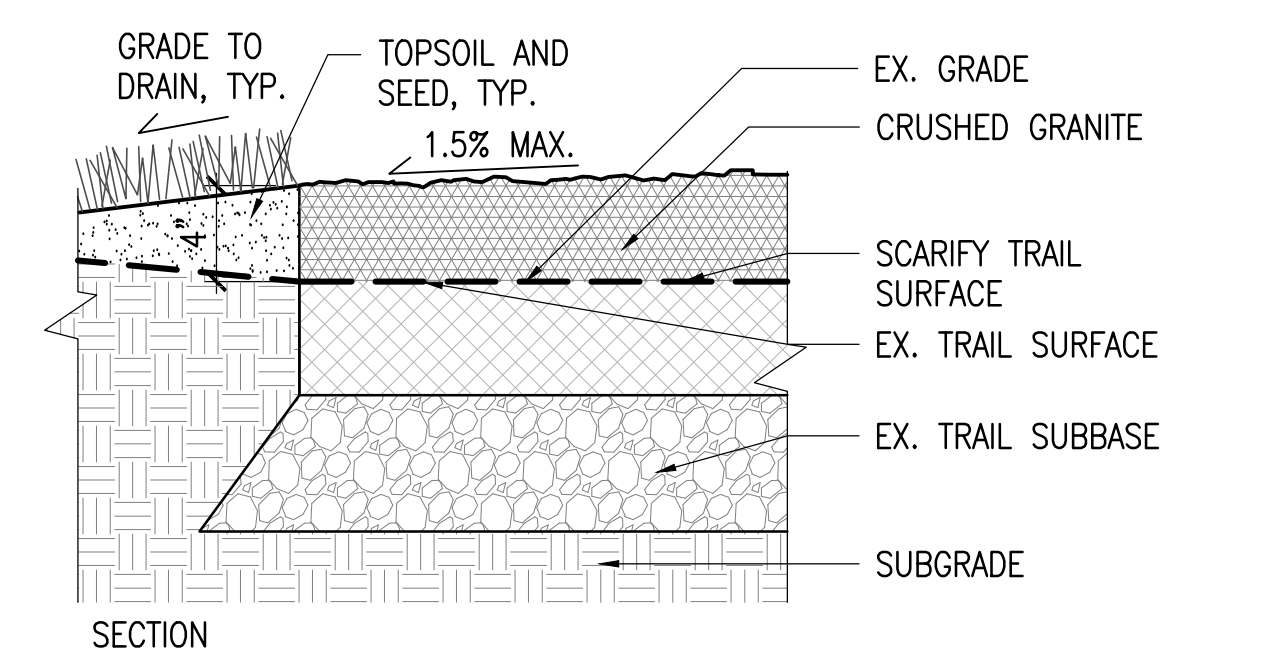
5 CONCRETE PAVEMENT
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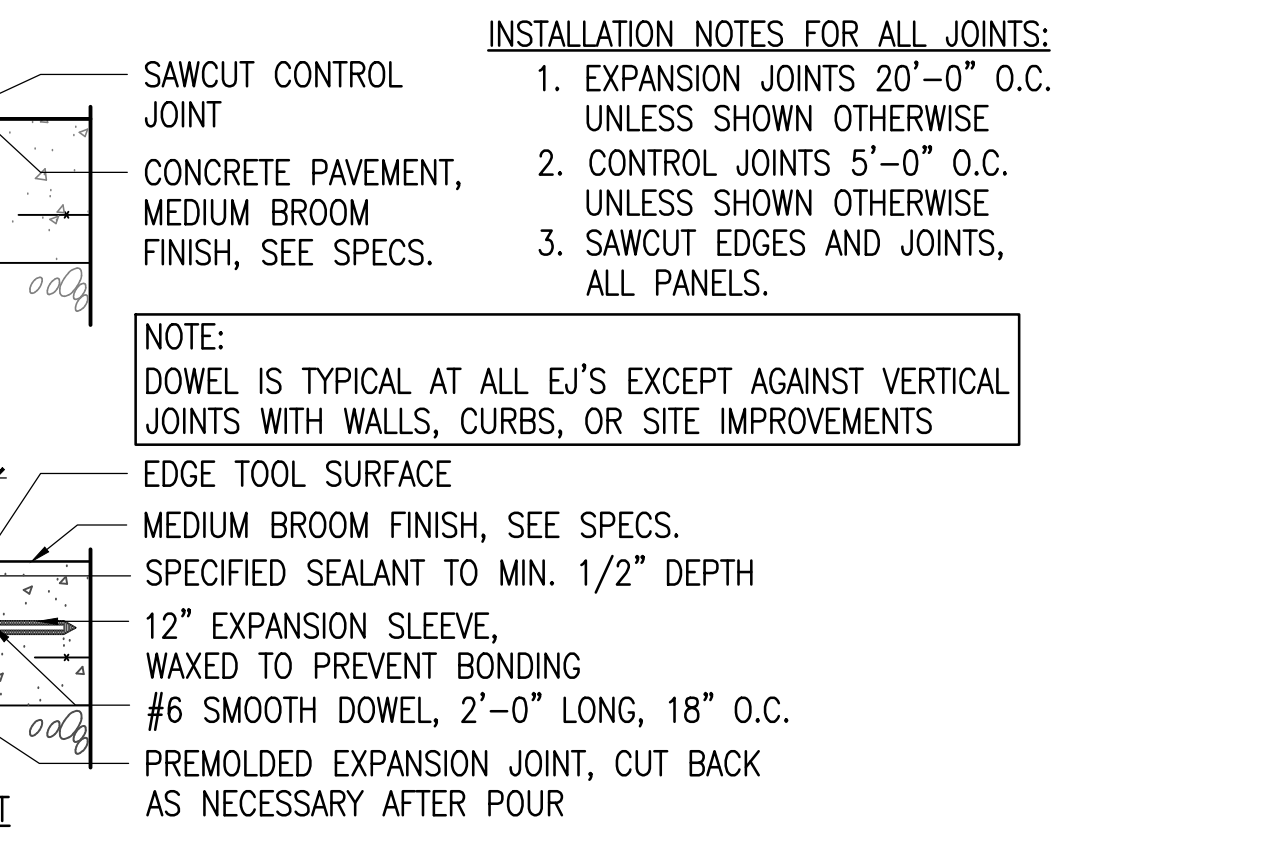
6 GRANITE CURB
SCALE: 1" = 1'-0"



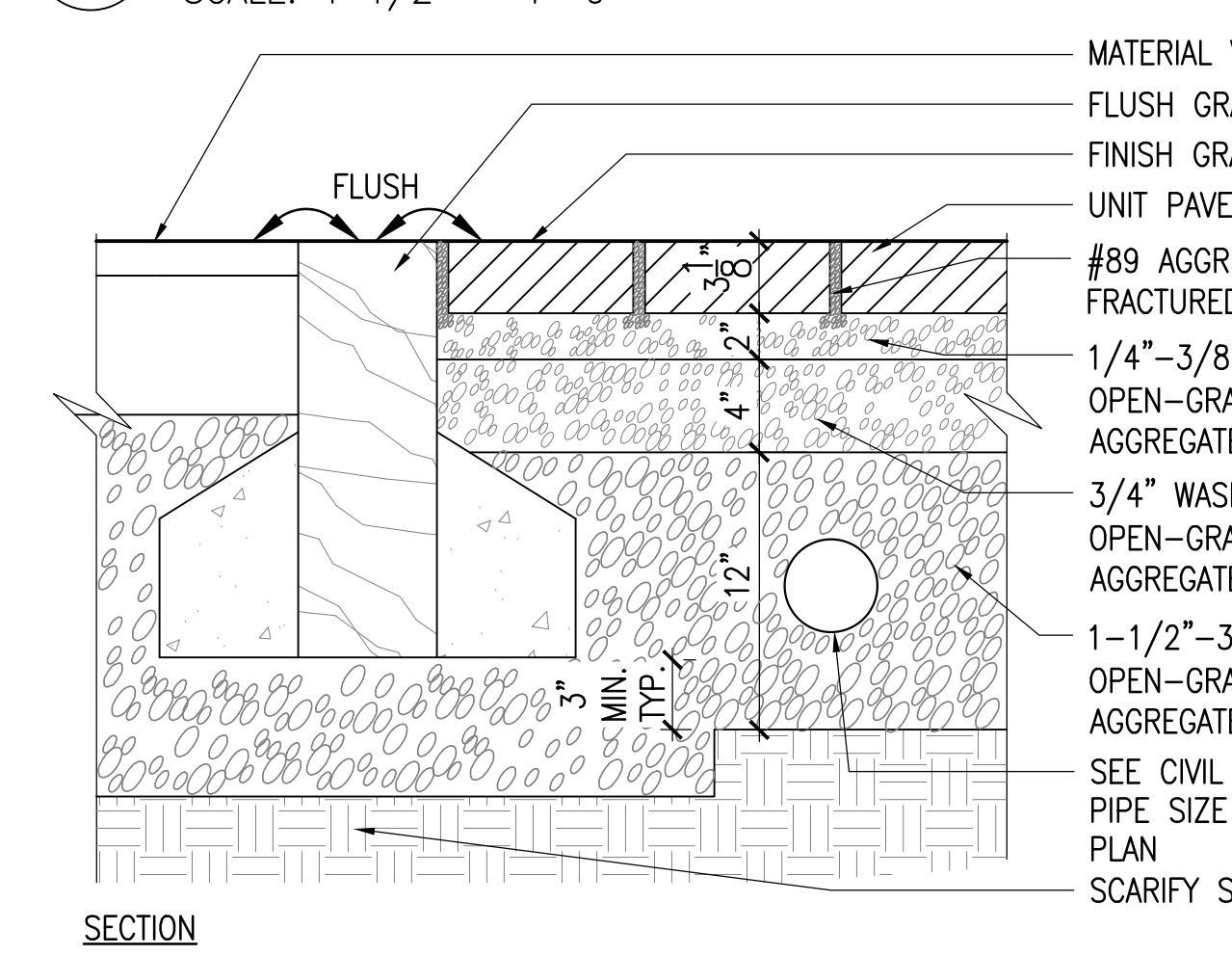
11 RESTORE EXISTING STONEDUST TRAIL
SCALE: 1 1/2" = 1'-0"



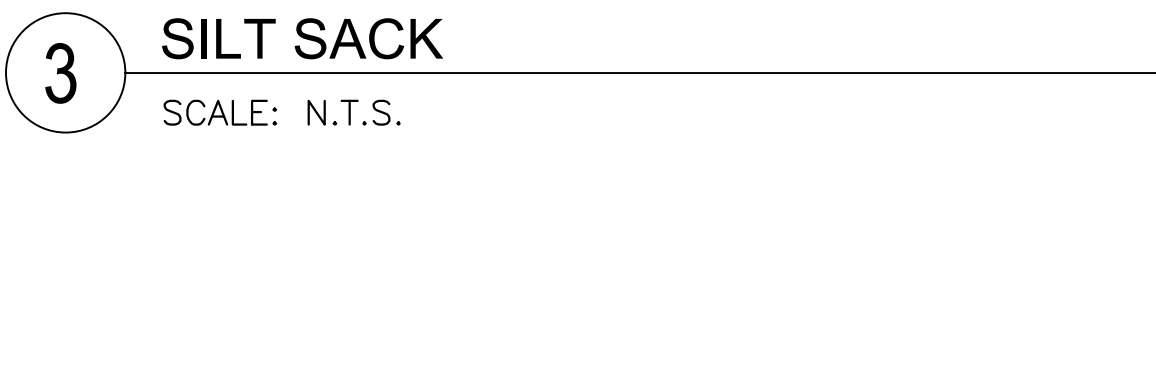
12 PERMEABLE CONCRETE UNIT PAVER
SCALE: 1 1/2" = 1'-0"



13 CONCRETE CURB STOP
SCALE: 1 1/2" = 1'-0"



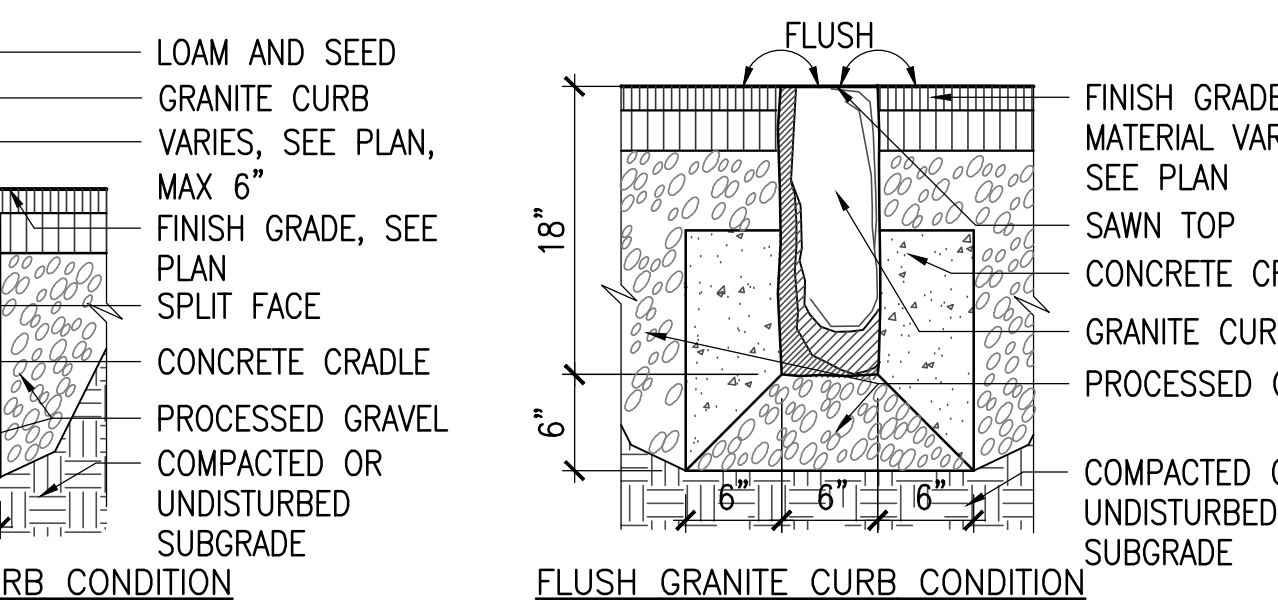
1 EROSION CONTROL - COMPOST FILTER SOCK
SCALE: N.T.S.



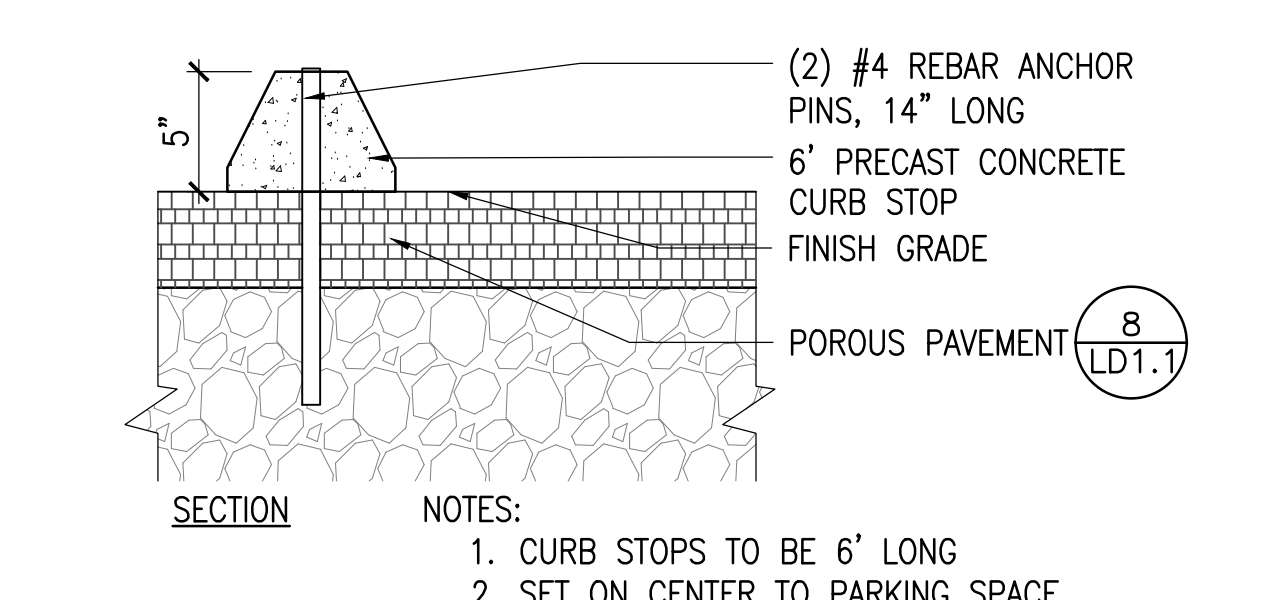
4 TREE PROTECTION - WOOD BOARD
SCALE: N.T.S.



7 PEDESTRIAN ASPHALT
SCALE: 1 1/2" = 1'-0"



9 VEHICULAR ASPHALT
SCALE: 1 1/2" = 1'-0"



10 CRUSHED GRANITE PAVEMENT
SCALE: 1 1/2" = 1'-0"

NO.	REVISION	DATE

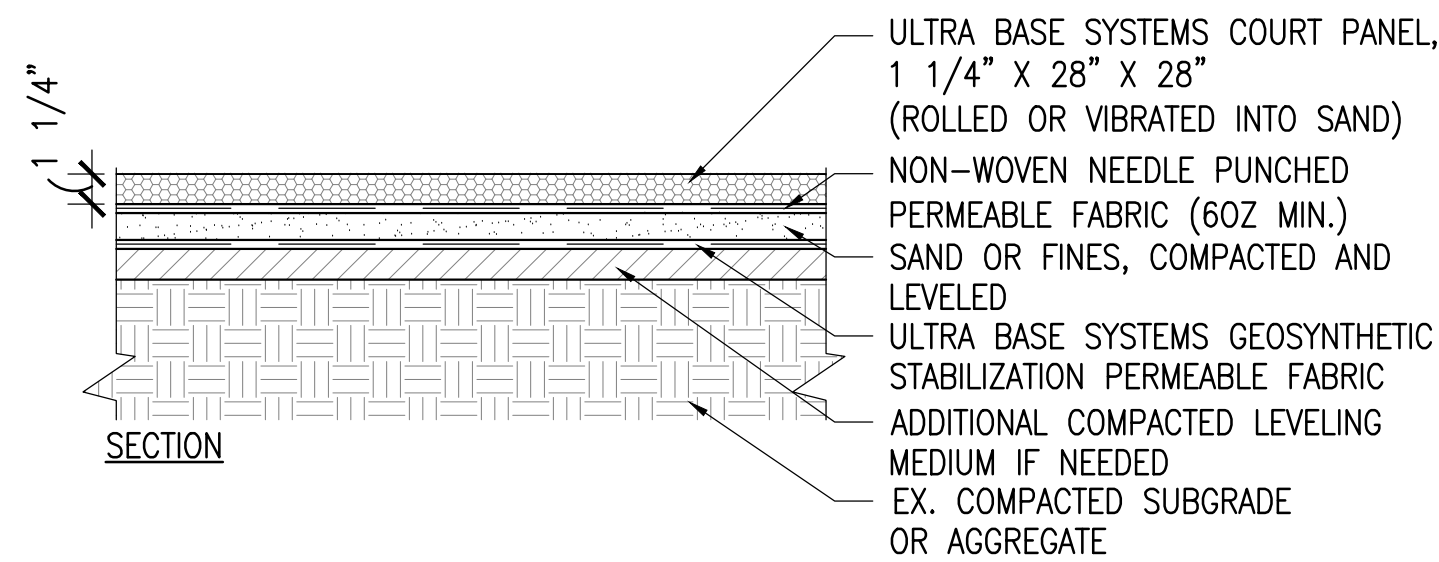
kzla
Kylie Zick Landscape Architecture, Inc.
36 Bronfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



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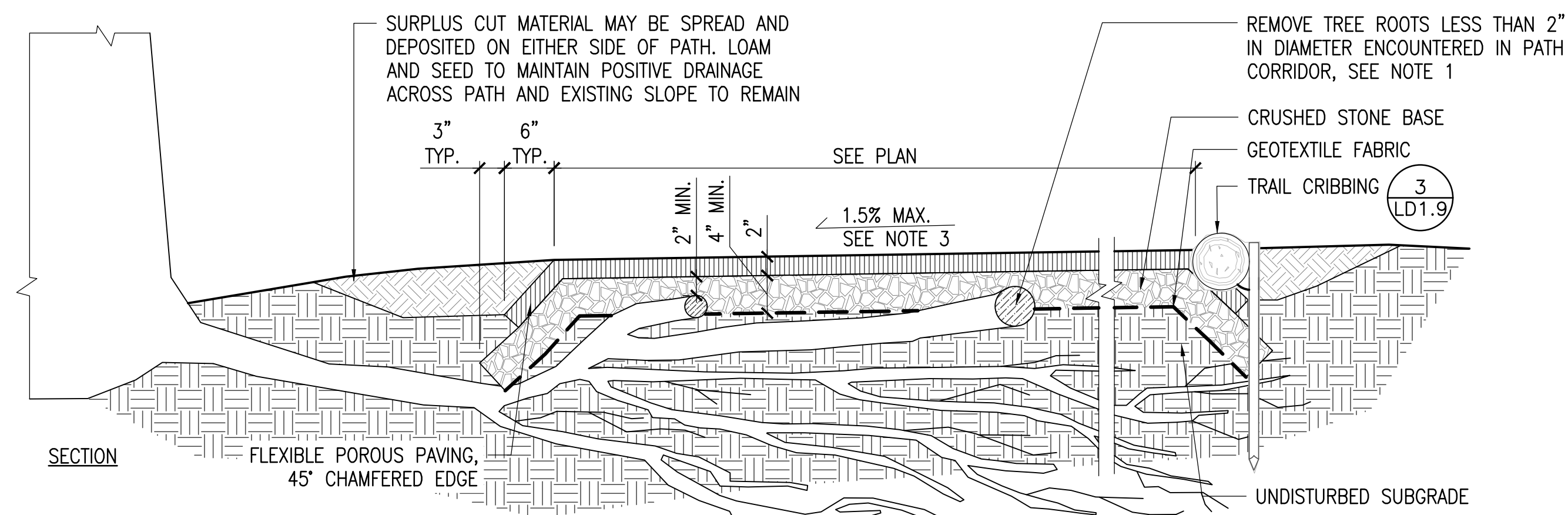
Job Number:
Project: ARLINGTON RES.
Drawn By: JL/MD/RB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: AS SHOWN
Drawing Title:

DETAILS



1 PERMEABLE ATHLETIC COURT SURFACING

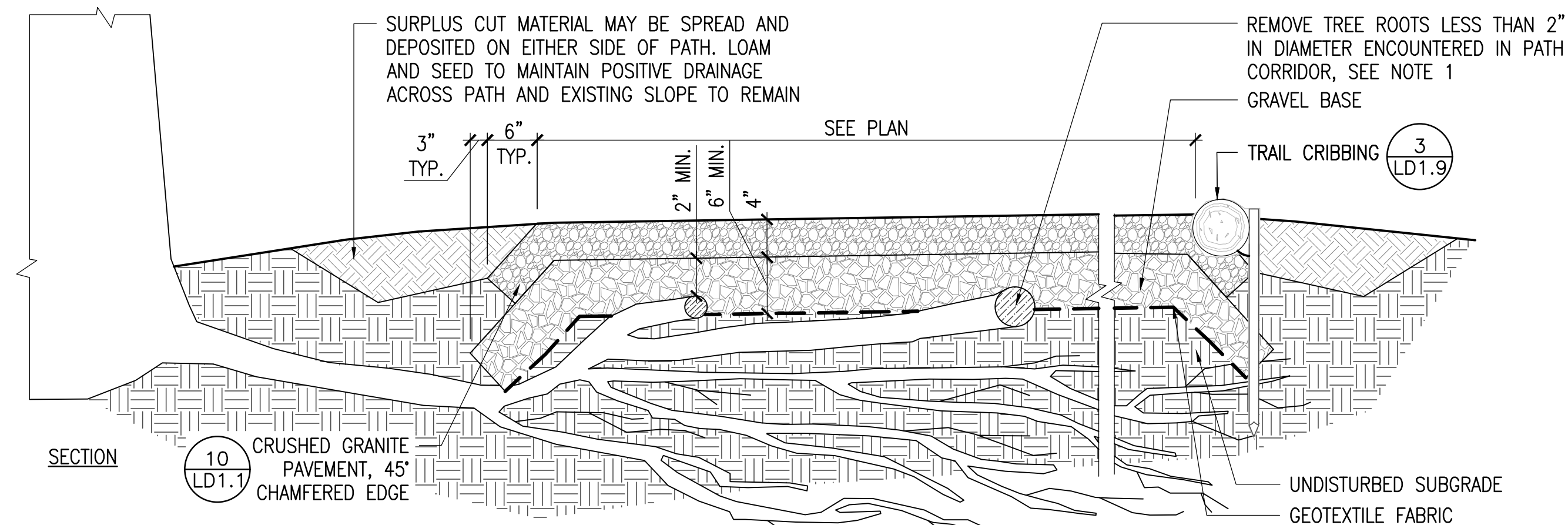
SCALE: 1 1/2" = 1'-0"



- NOTE:
1. TO PREVENT INJURY TO CRITICAL ROOT ZONES OF ADJACENT TREES, SOIL IS TO BE EXCAVATED NON-INVASIVELY A MINIMUM OF 6 INCHES USING SUPERSONIC AIR KNIFE. FABRIC AND STONE ARE TO BE INSTALLED OVER AND AROUND ROOTS. SUBGRADE SHALL BE COMPACTED TO THE GREATEST EXTENT POSSIBLE. ROOT PRUNING MAY BE PERFORMED BY ARBORIST AS NEEDED ON SELECTED ROOTS LESS THAN 2 INCHES IN DIAMETER PROVIDED NO MORE THAN 15% OF THE CRITICAL ROOT ZONE IS REMOVED.
 2. WHEREVER POSSIBLE, AND WITHOUT INJURING CRITICAL ROOT ZONES OF ADJACENT TREES, CRUSHED STONE BASE SHALL RUN 6 INCHES BEYOND THE END OF THE FLEXIBLE POROUS PAVING. AT LEAST 2" OF STONE SHALL COVER THE TOP OF ROOTS BEFORE FLEXIBLE POROUS MATERIAL IS LAID.
 3. WALKWAY SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT. ANY DISCREPANCY NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.

2 RUBBER SURFACING - TRAIL (ADD ALTERNATE)

SCALE: 1" = 1'-0"

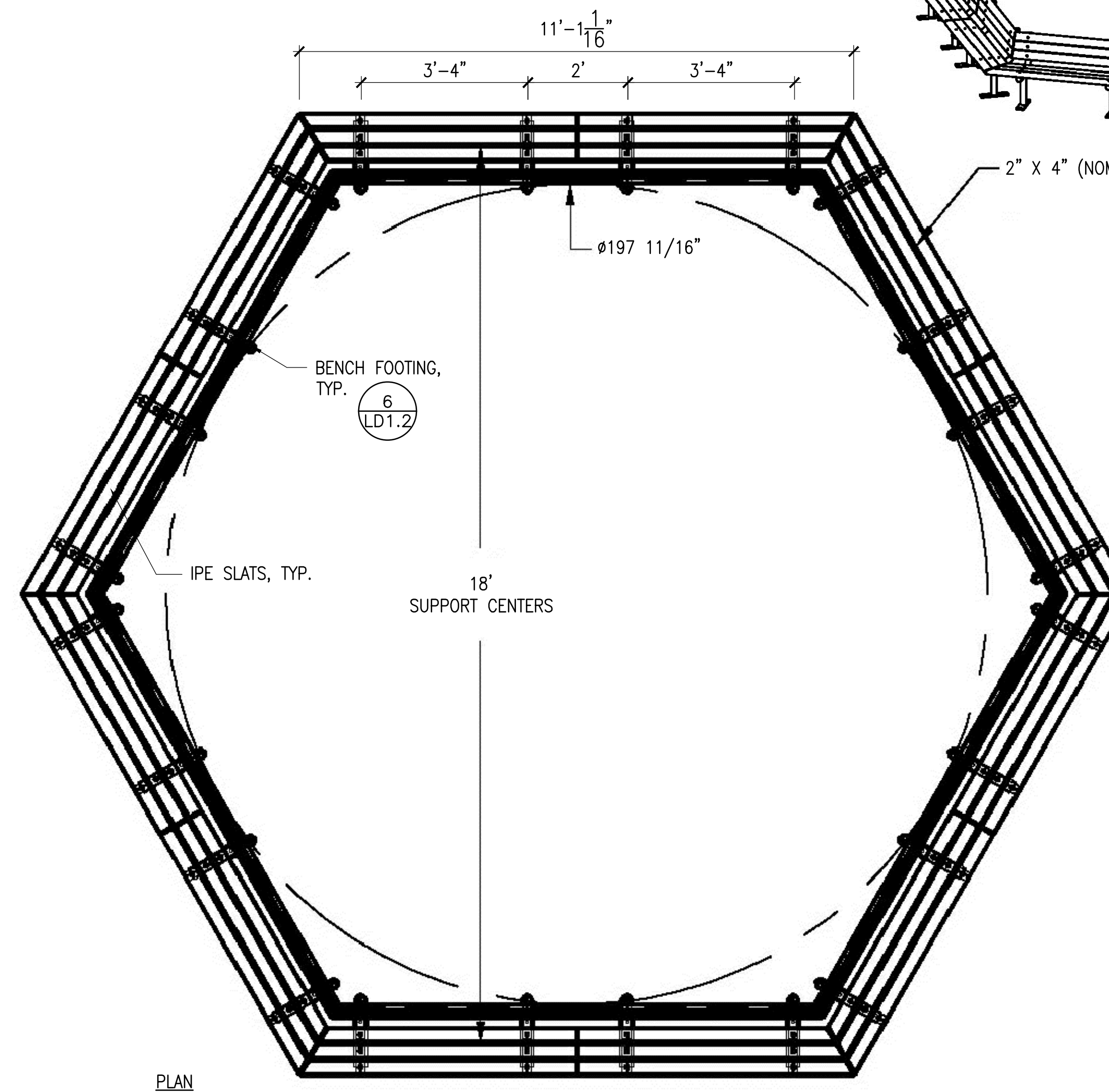


- NOTE:
1. TO PREVENT INJURY TO CRITICAL ROOT ZONES OF ADJACENT TREES, SOIL IS TO BE EXCAVATED NON-INVASIVELY A MINIMUM OF 6 INCHES USING SUPERSONIC AIR KNIFE. FABRIC AND STONE ARE TO BE INSTALLED OVER AND AROUND ROOTS. SUBGRADE SHALL BE COMPACTED TO THE GREATEST EXTENT POSSIBLE. ROOT PRUNING MAY BE PERFORMED BY ARBORIST AS NEEDED ON SELECTED ROOTS LESS THAN 2 INCHES IN DIAMETER PROVIDED NO MORE THAN 15% OF THE CRITICAL ROOT ZONE IS REMOVED.
 2. WHEREVER POSSIBLE, AND WITHOUT INJURING CRITICAL ROOT ZONES OF ADJACENT TREES, CRUSHED STONE BASE SHALL RUN 6 INCHES BEYOND THE END OF THE STONEDUST PAVING. AT LEAST 2" OF STONE SHALL COVER THE TOP OF ROOTS BEFORE STONEDUST IS LAID.
 3. WALKWAY SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT. ANY DISCREPANCY NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.

3 STABILIZED CRUSHED GRANITE PAVEMENT OVER TREE ROOTS

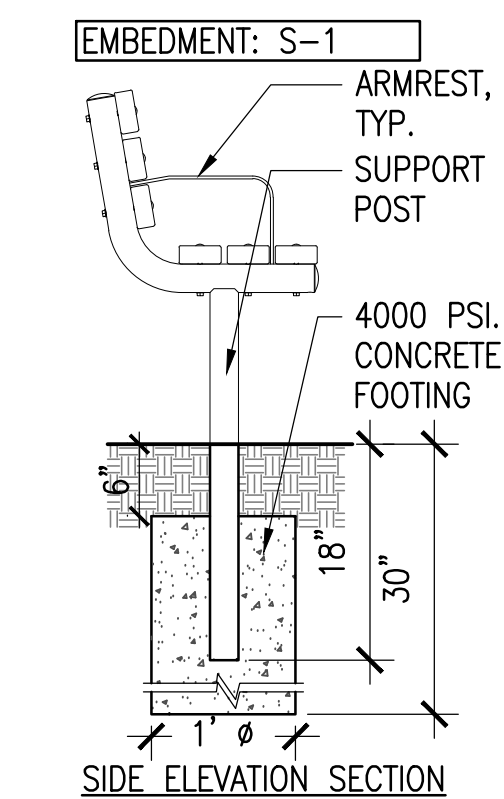
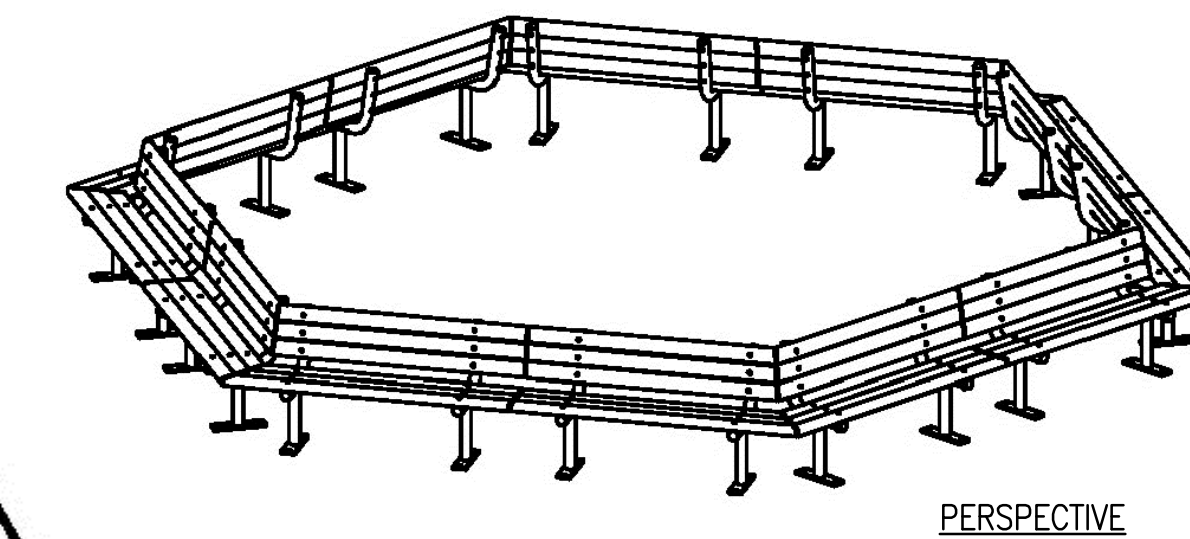
SCALE: 1" = 1'-0"

- NOTE:
1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
 2. SEE SPECS. FOR COLOR INFO.
 3. ALL BENCHES TO HAVE ARMRESTS.
 4. ALL BENCHES TO HAVE IPE SLATS.



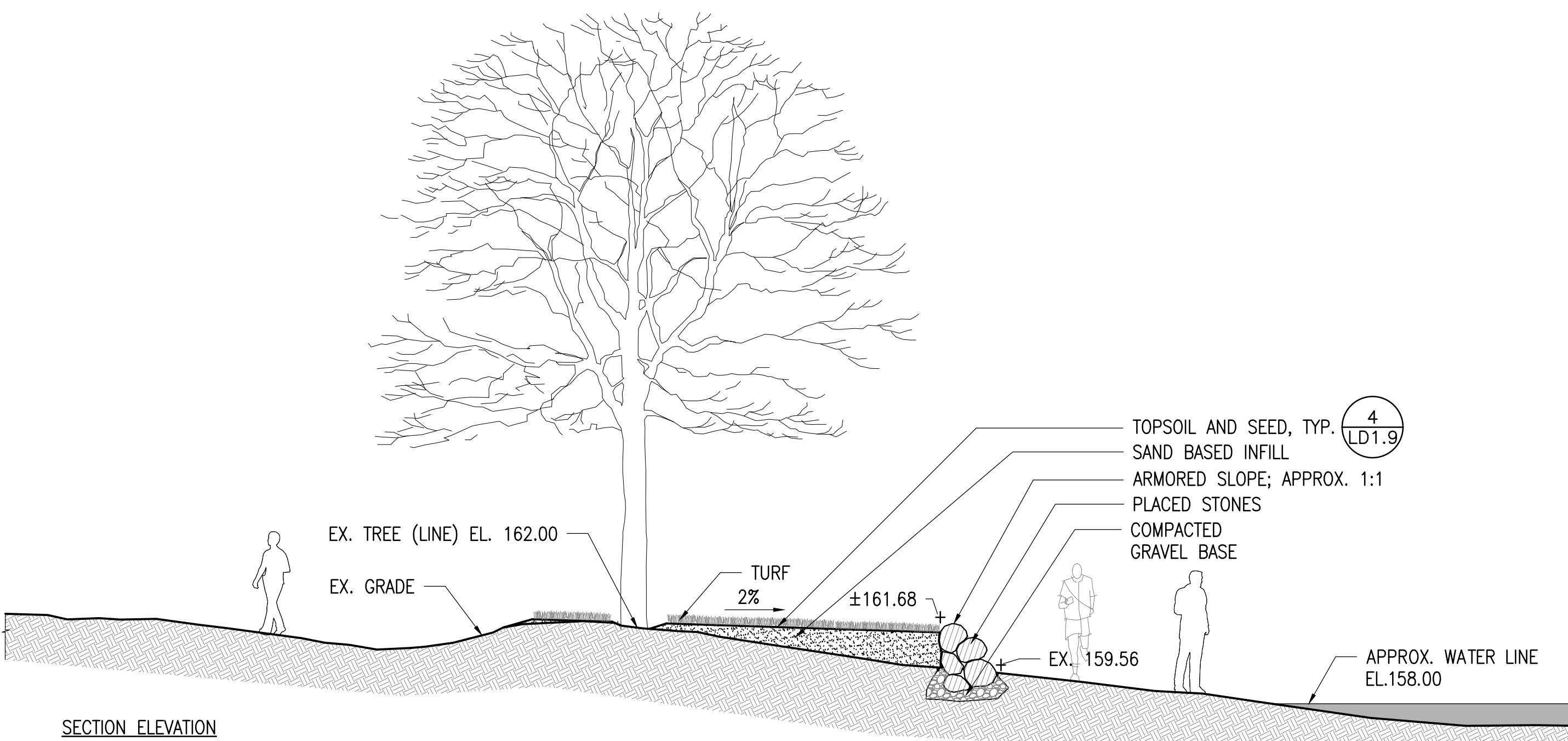
4 HEXAGONAL BENCH

SCALE: 1/2" = 1'-0"



6 BENCH FOOTING

SCALE: 3/4" = 1'-0"



5 ARMORED SLOPE AT BEACH

SCALE: 3/16" = 1'-0"

ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON

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36 Bronfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com

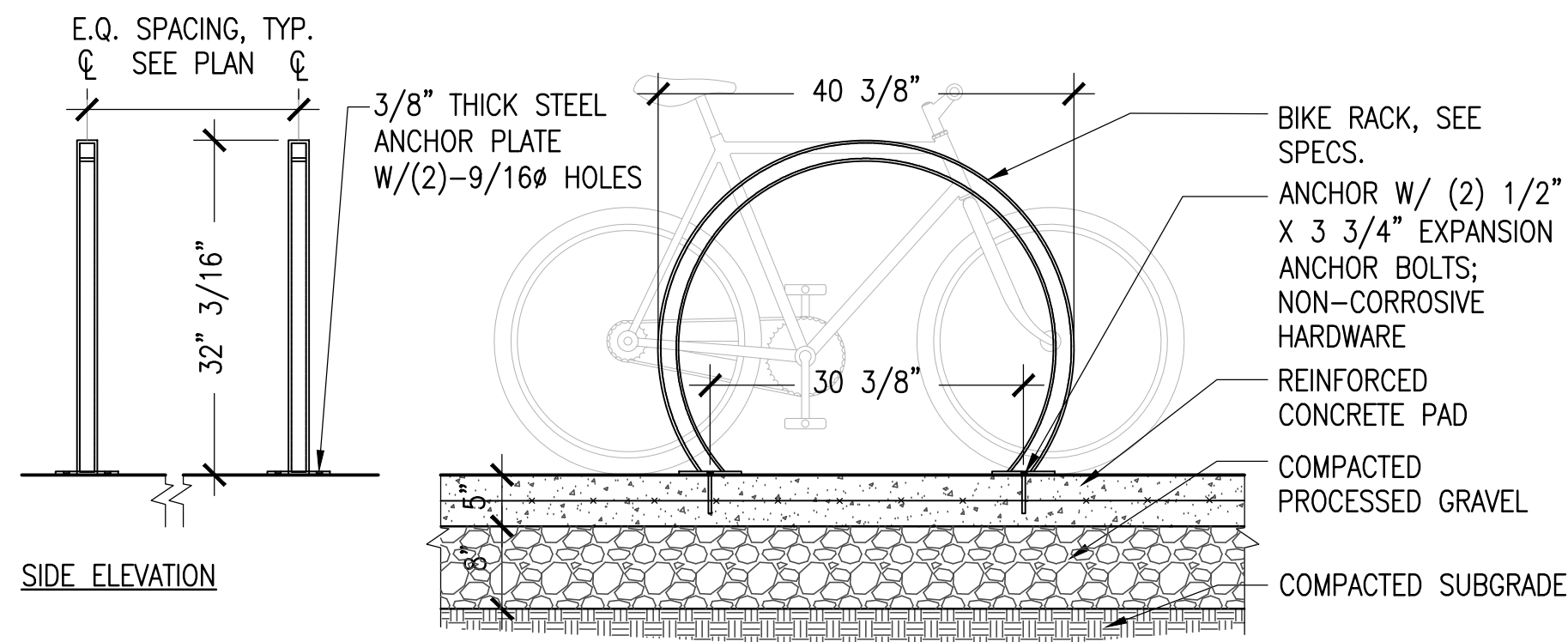


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Job Number:
Project: ARLINGTON RES.
Drawn By: JLM/DRB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: AS SHOWN
Drawing Title:

DETAILS

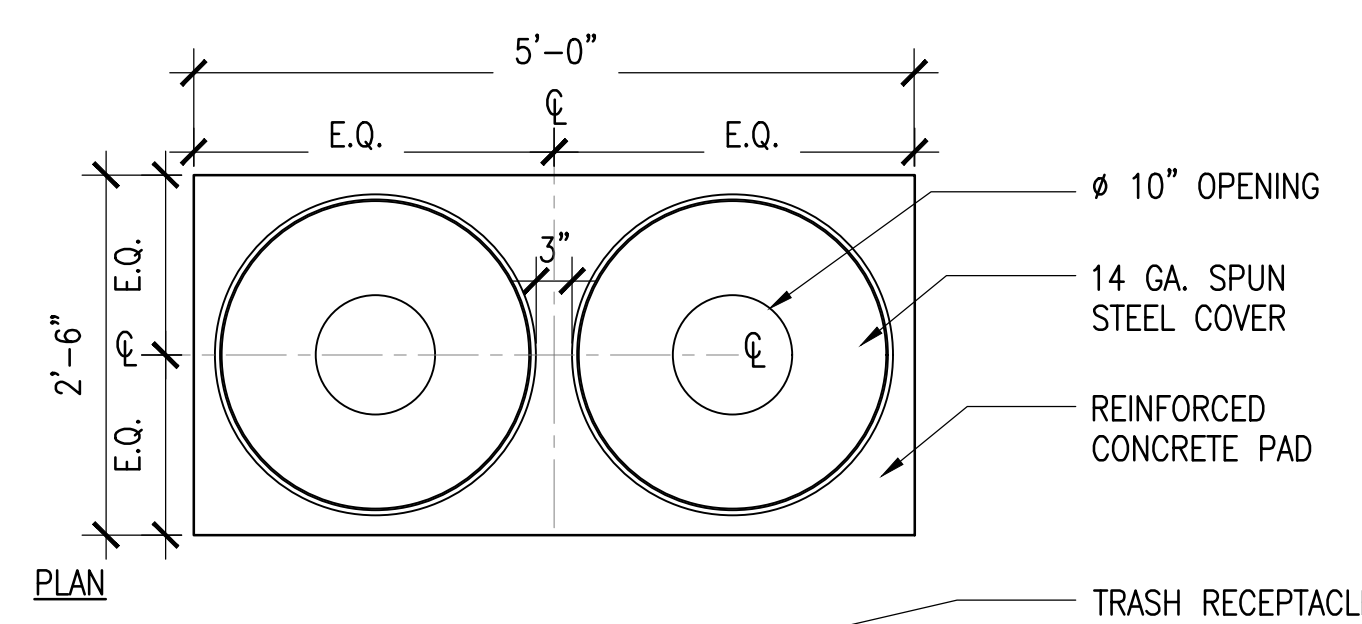
LD1.2



NOTE:
 1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
 2. SEE SPECS. FOR COLOR INFO.

1 BIKE RACK

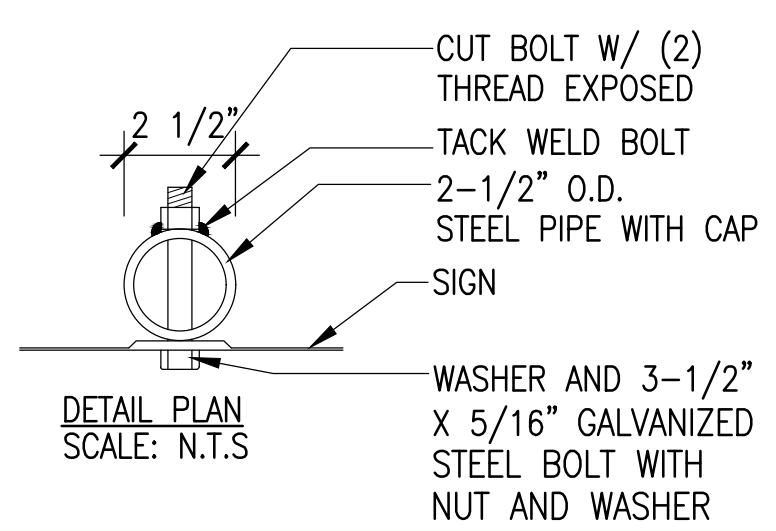
SCALE: 3/4" = 1'-0"



TRASH RECEPTACLE, SEE SPECS.
 RECYCLE BIN, SEE SPECS.
 S.S. VANDAL PROOF ANCHOR BOLT, TYP.
 REINFORCED CONCRETE PAD
 COMPACTED PROCESSED GRAVEL
 COMPACTED SUBGRADE

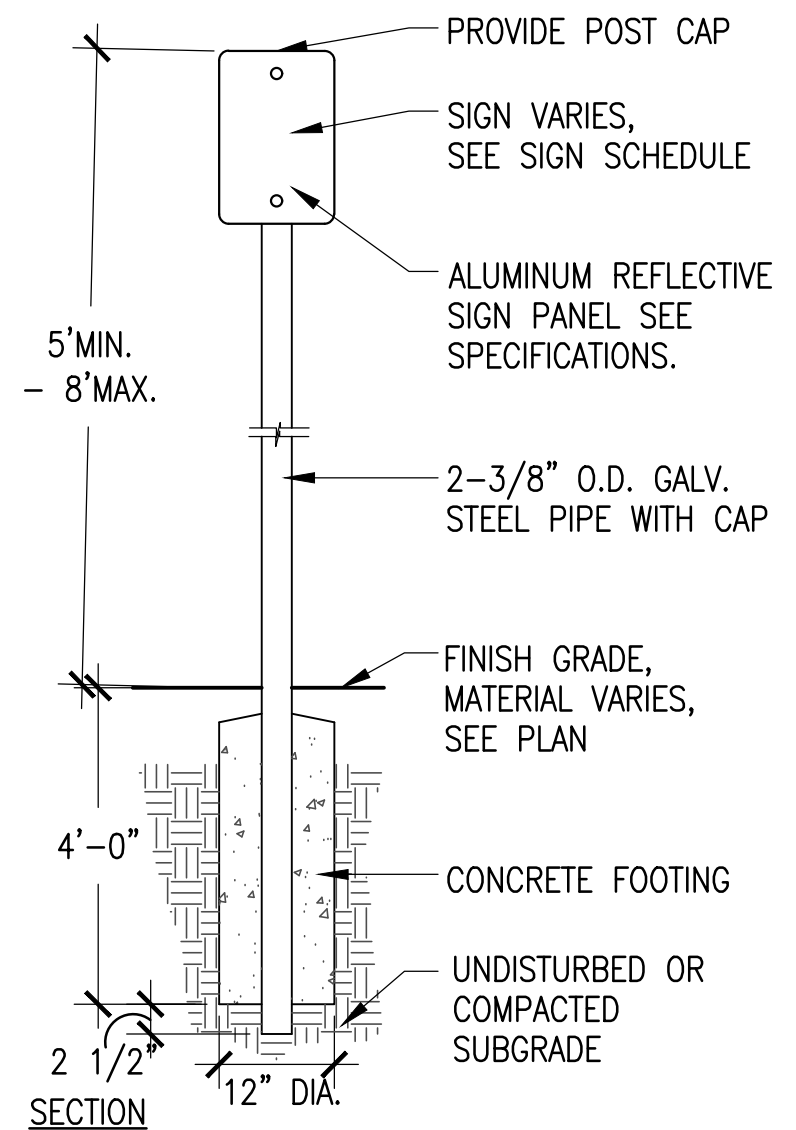
2 TRASH RECEPTACLE AND RECYCLING BIN

SCALE: 3/4" = 1'-0"



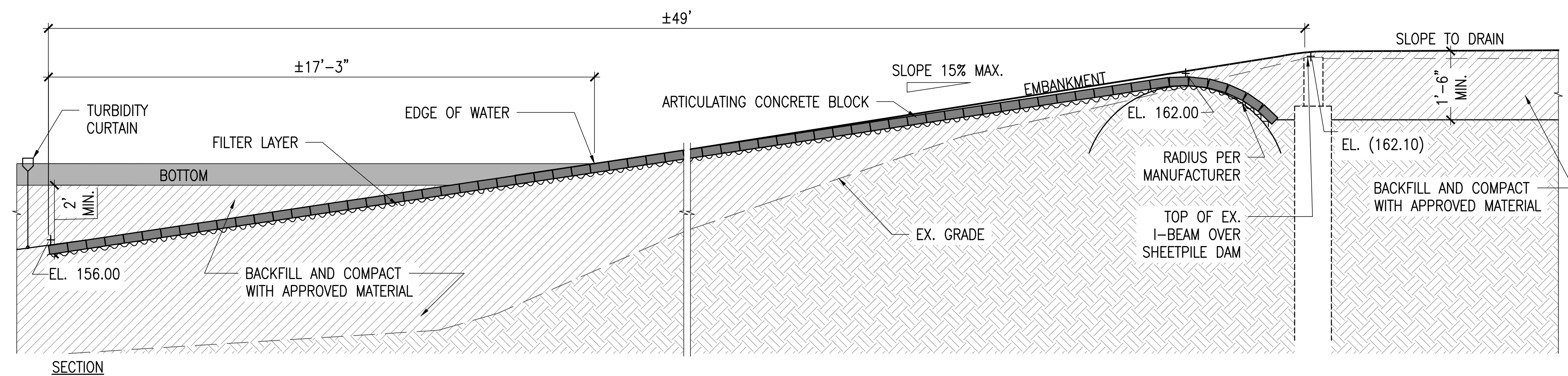
SIGNAGE SCHEDULE

MESSAGE	CODE	SIGN
ACCESSIBLE PARKING SIGN	R7-8	
VAN ACCESSIBLE PARKING SIGN	R7-8A	



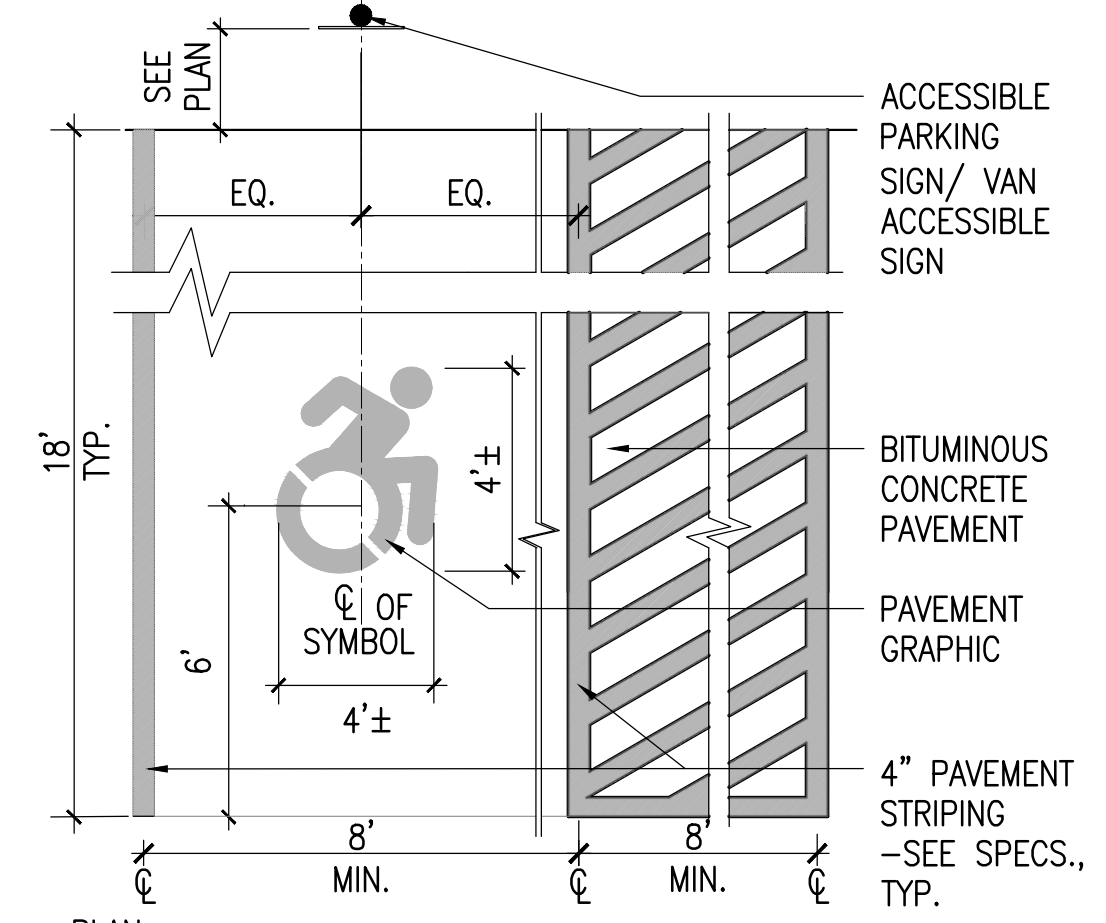
3 ACCESSIBLE PARKING SIGN

SCALE: 3/4" = 1'-0"



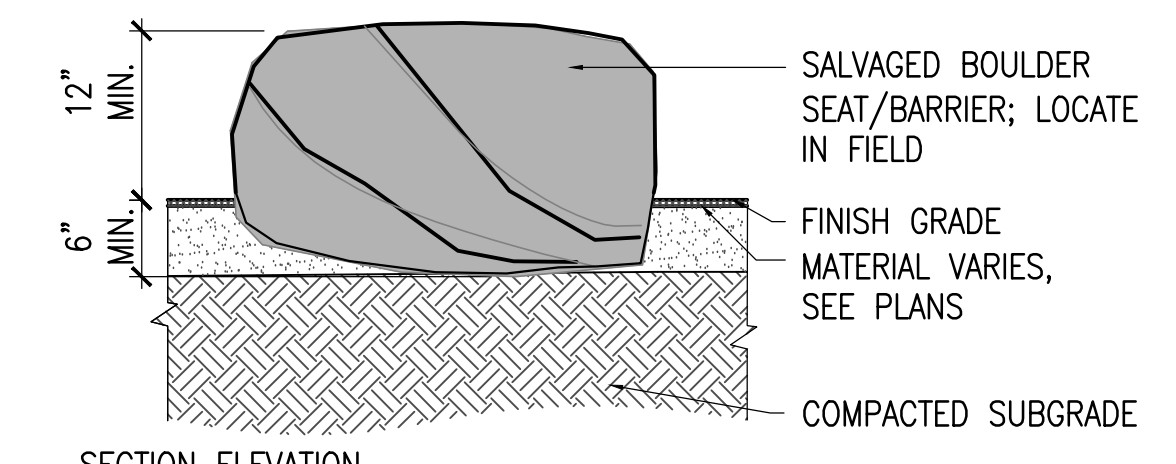
4 BOAT RAMP CONCRETE

SCALE: 3/8" = 1'-0"



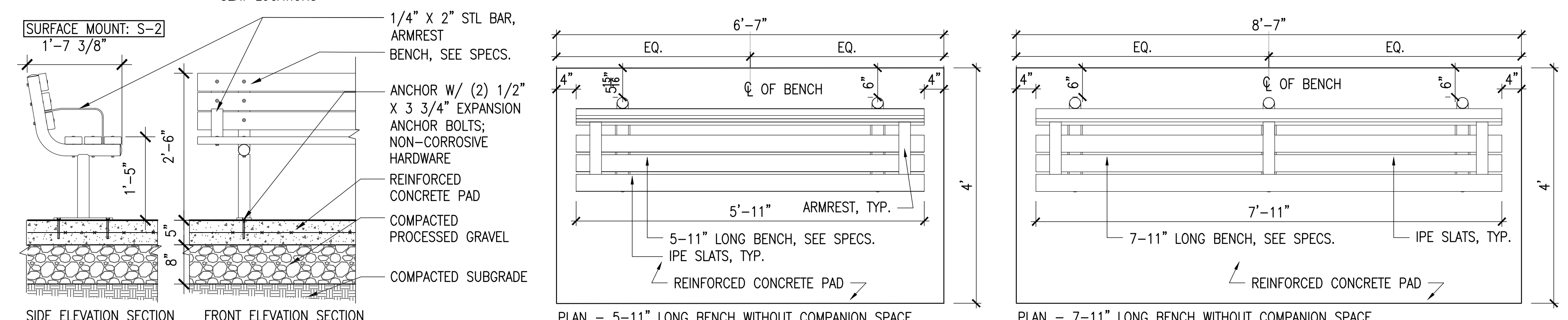
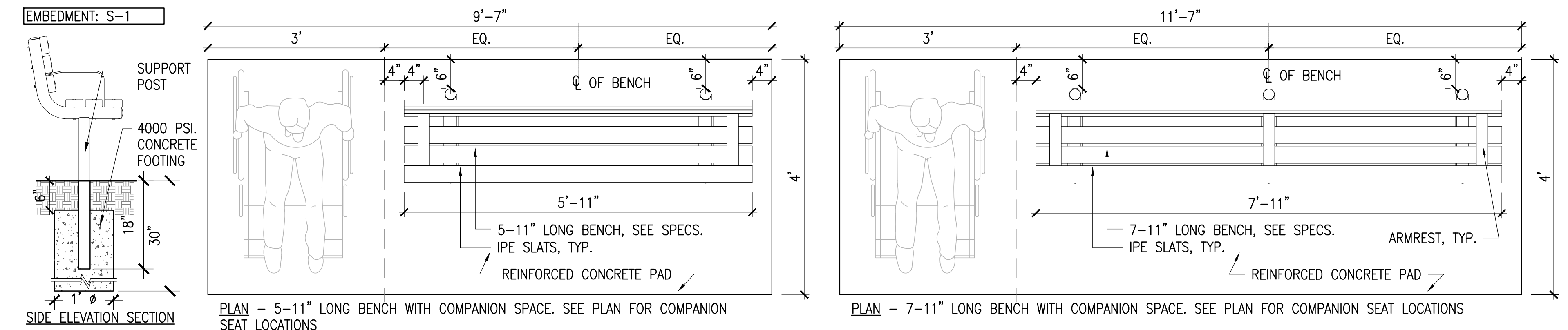
5 PAVEMENT MARKING - ACCESSIBILITY

SCALE: N.T.S.



7 PLACED BOULDER

SCALE: 3/4" = 1'-0"



NOTE:
 1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
 2. SEE SPECS. FOR COLOR INFO.
 3. ALL BENCHES TO HAVE ARMRESTS.
 4. ALL BENCHES TO HAVE IPE SLATS.
 5. CONCRETE PAD SHALL HAVE 2% MAX SLOPE IN ALL DIRECTIONS.

6 BENCH

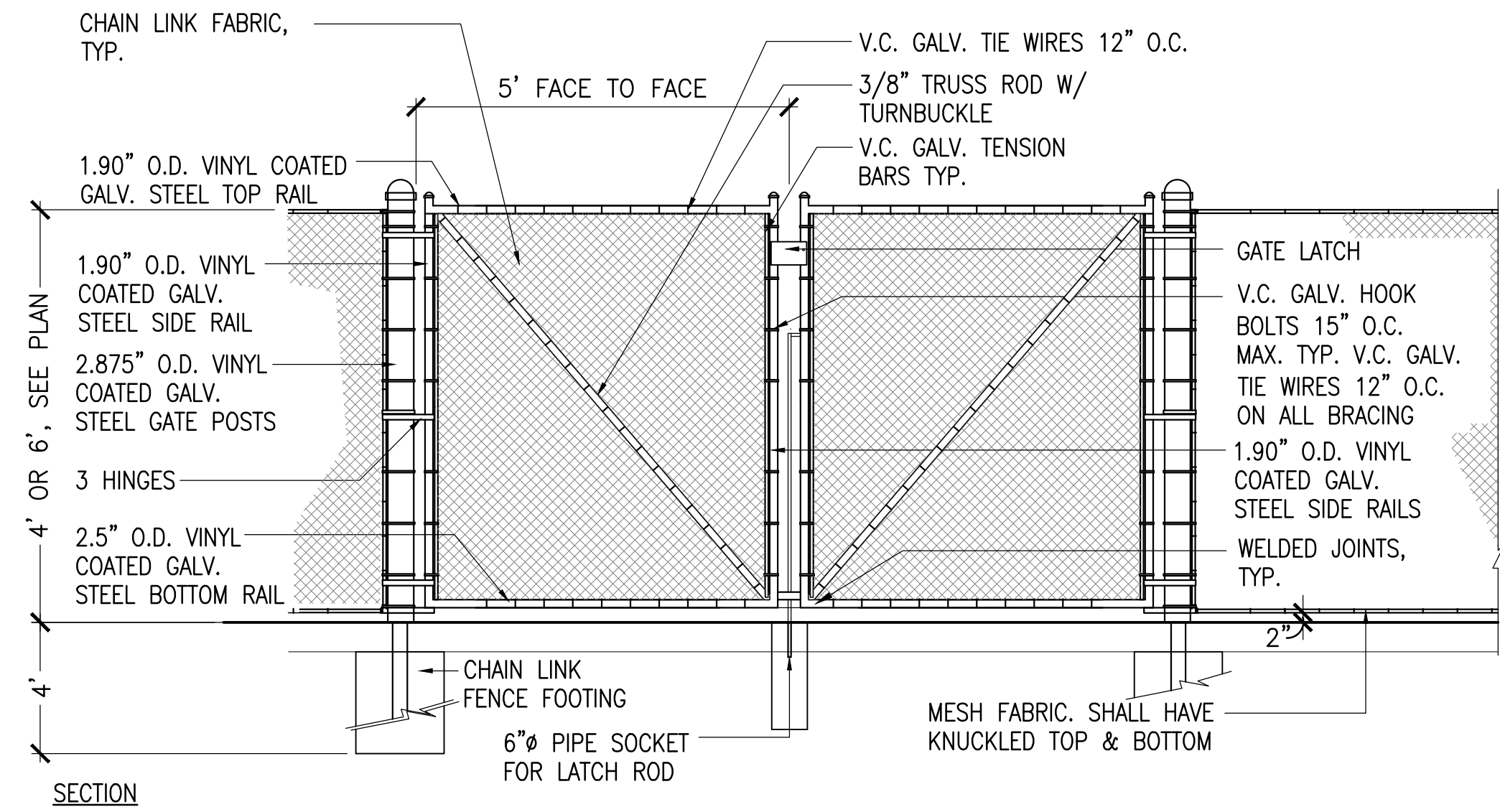
SCALE: 3/4" = 1'-0"



**ARLINGTON
RESERVOIR -
PHASE 2**

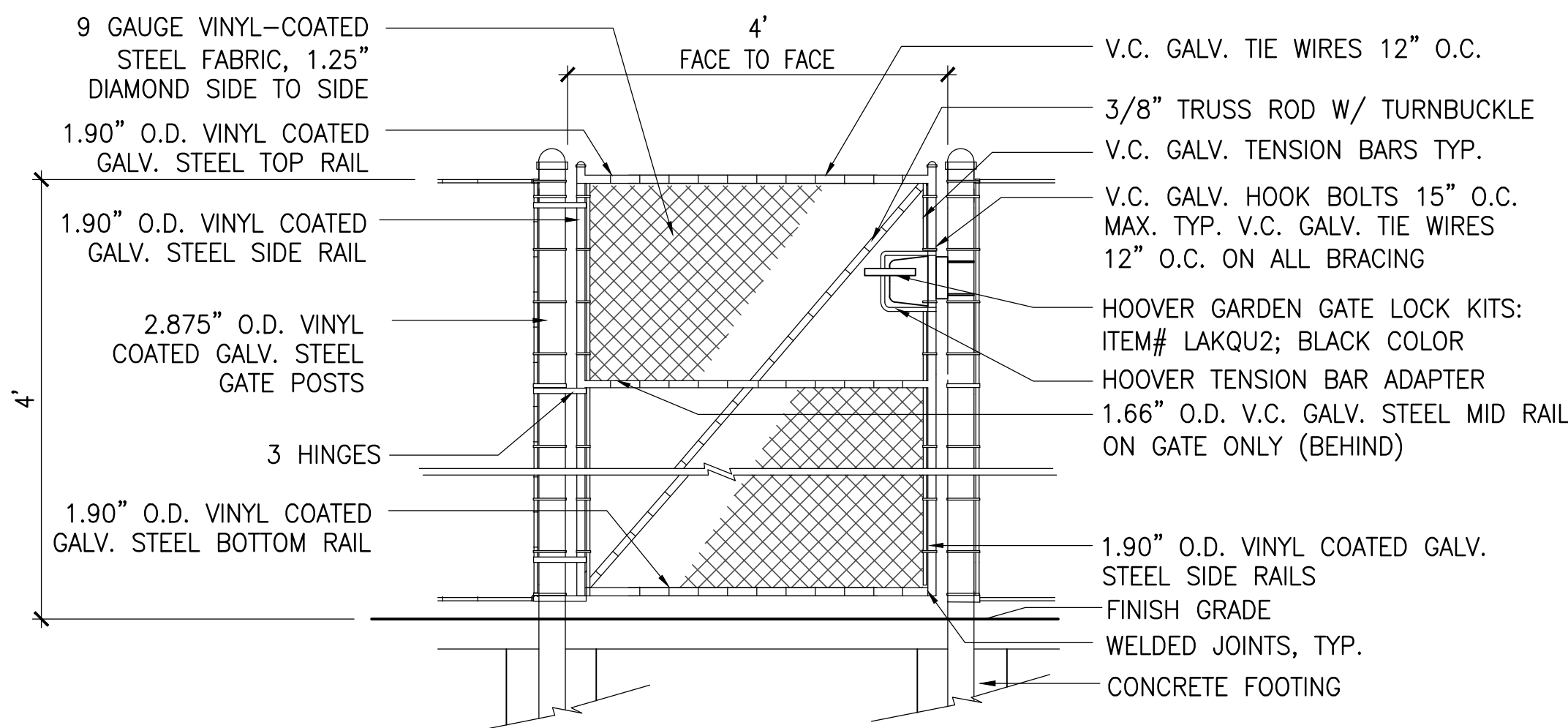
ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



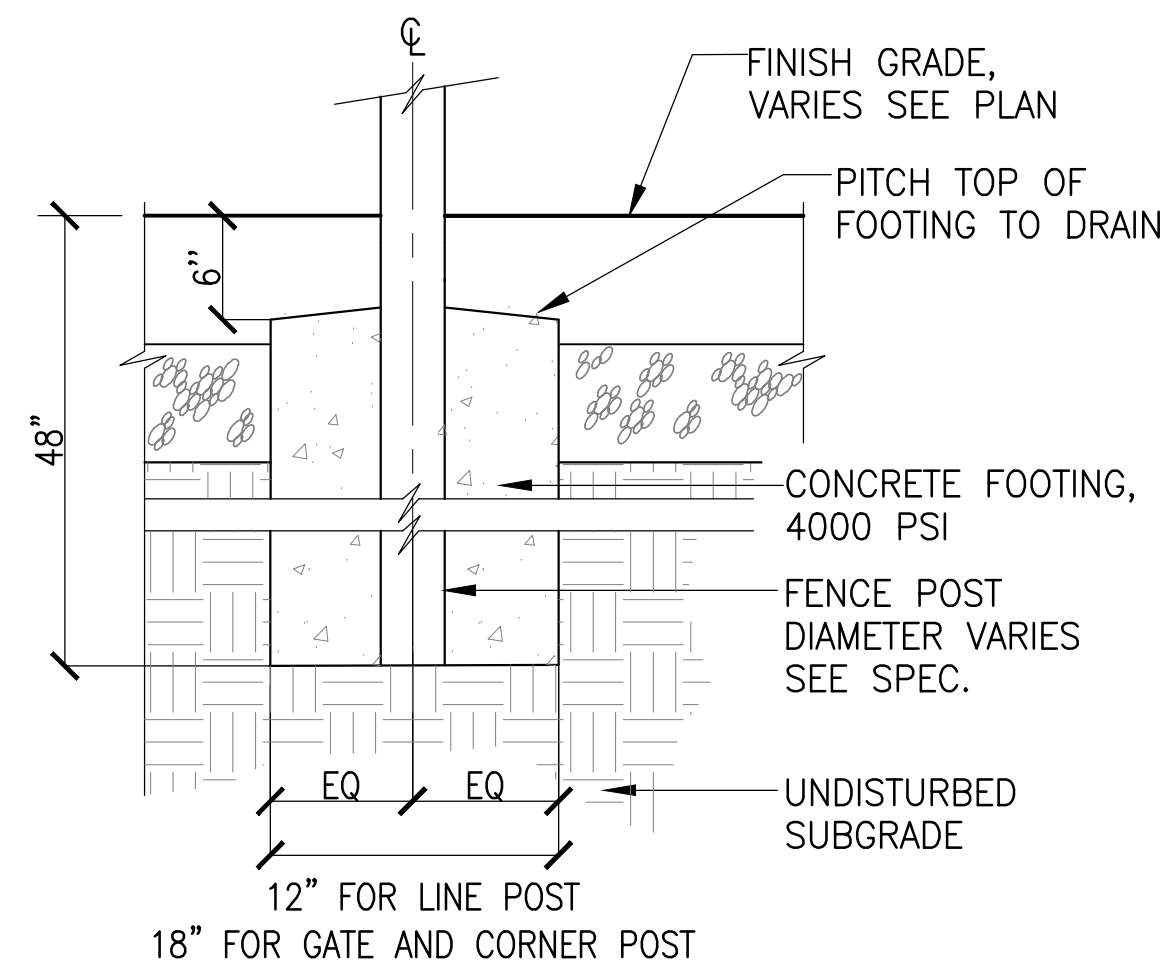
1 DOUBLE CHAIN LINK FENCE GATE

SCALE: N.T.S.



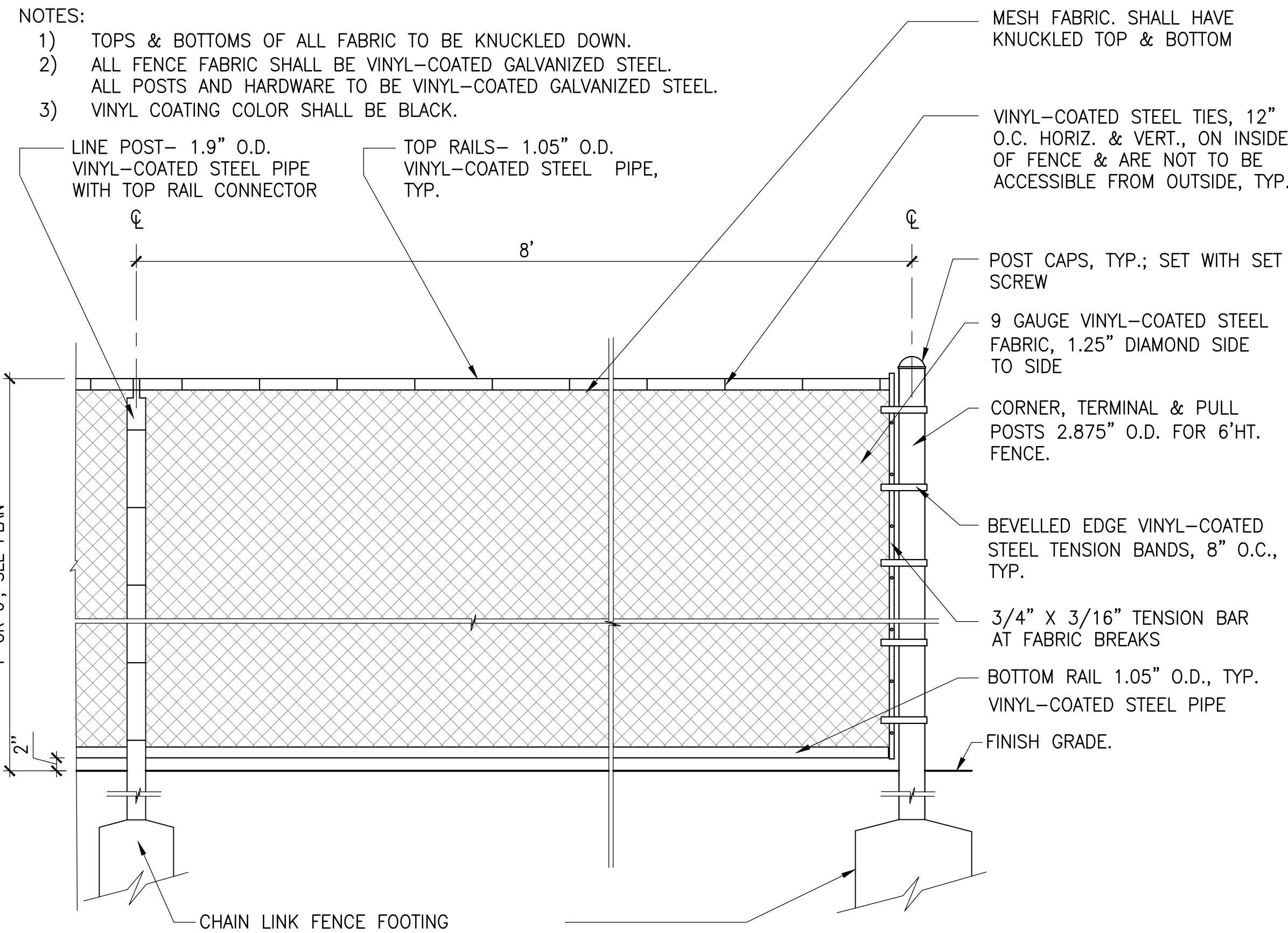
2 SINGLE CHAIN LINK GATE

SCALE: N.T.S.



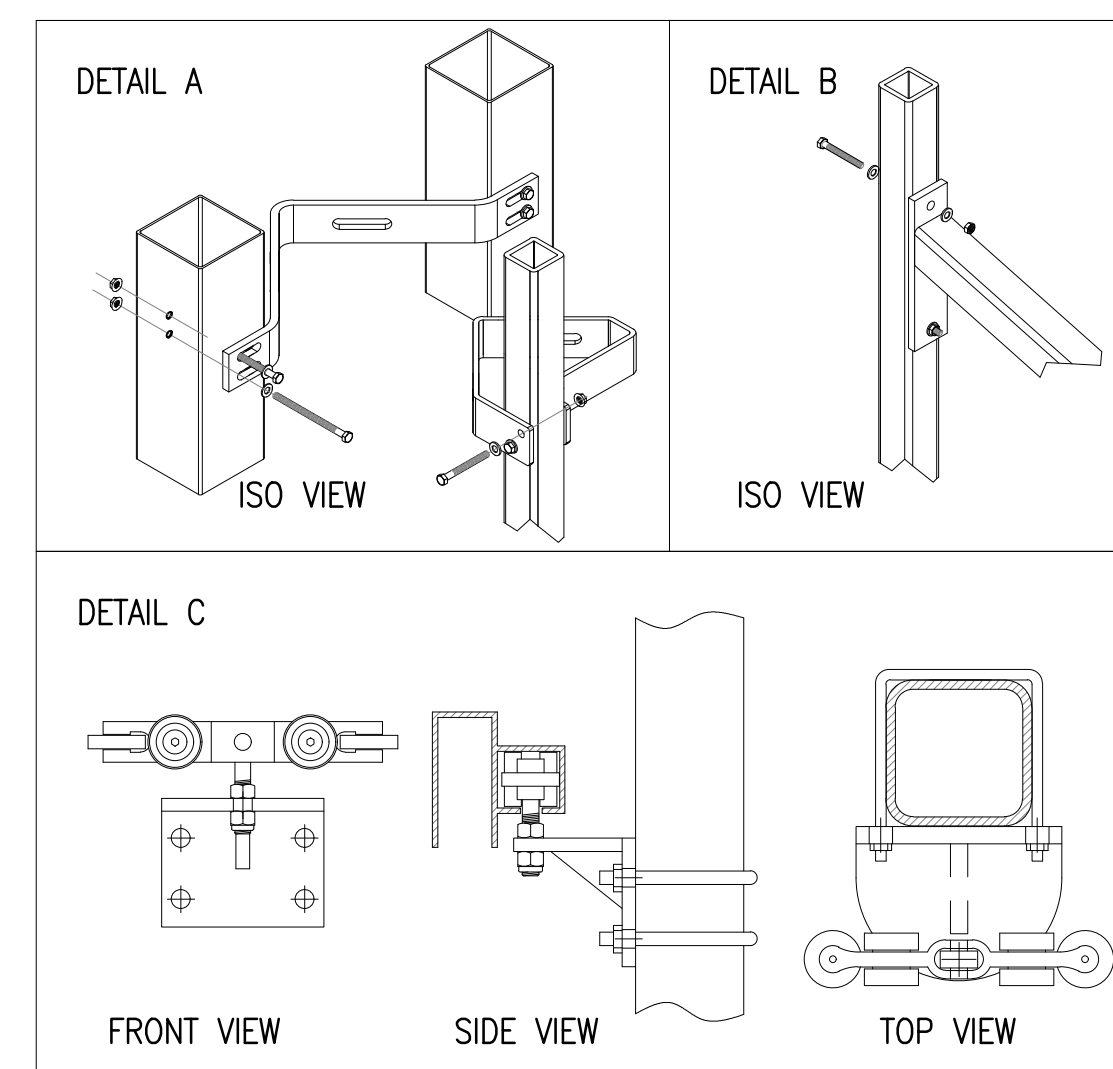
3 CHAIN LINK FENCE FOOTING

SCALE: 1" = 1'-0"



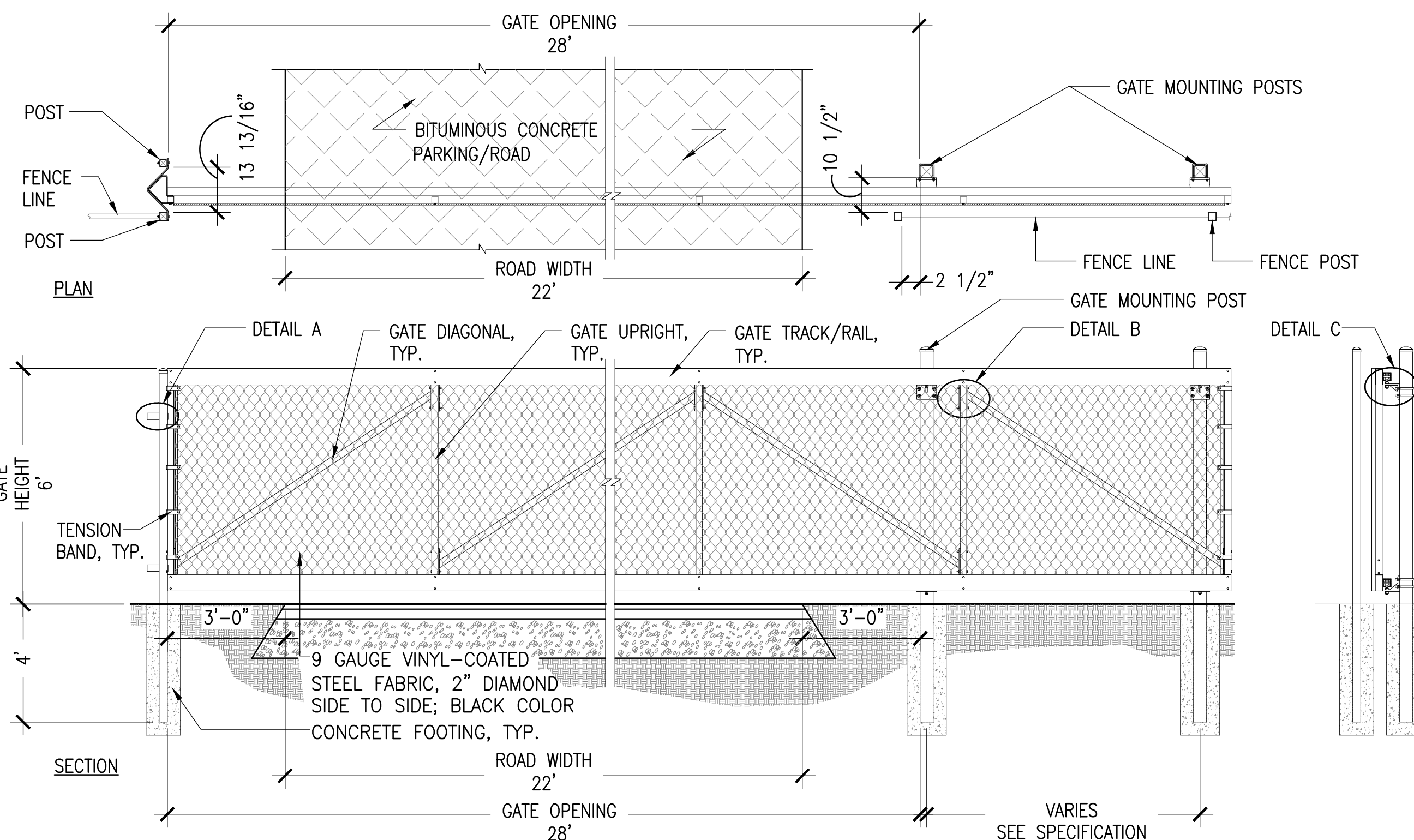
4 CHAIN LINK FENCE

SCALE: N.T.S.



5 CHAIN LINK FENCE CANTILEVER GATE

SCALE: N.T.S.



- NOTE:
- VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.
 - ALL FENCE FABRIC SHALL BE BLACK VINYL-COATED GALVANIZED STEEL.
 - ALL POSTS AND HARDWARE TO BE BLACK VINYL-COATED GALVANIZED STEEL.

NO.	REVISION	DATE

kzla
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36 Bronnfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



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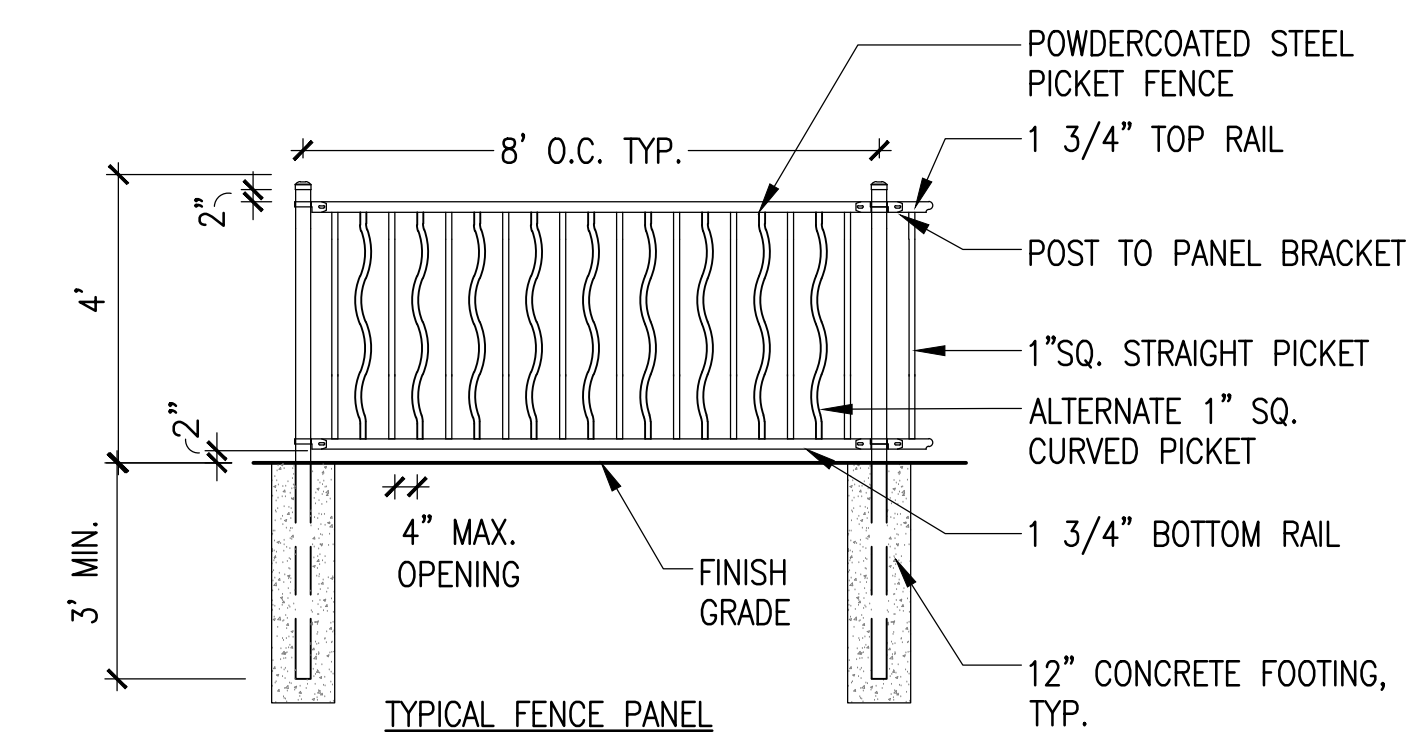
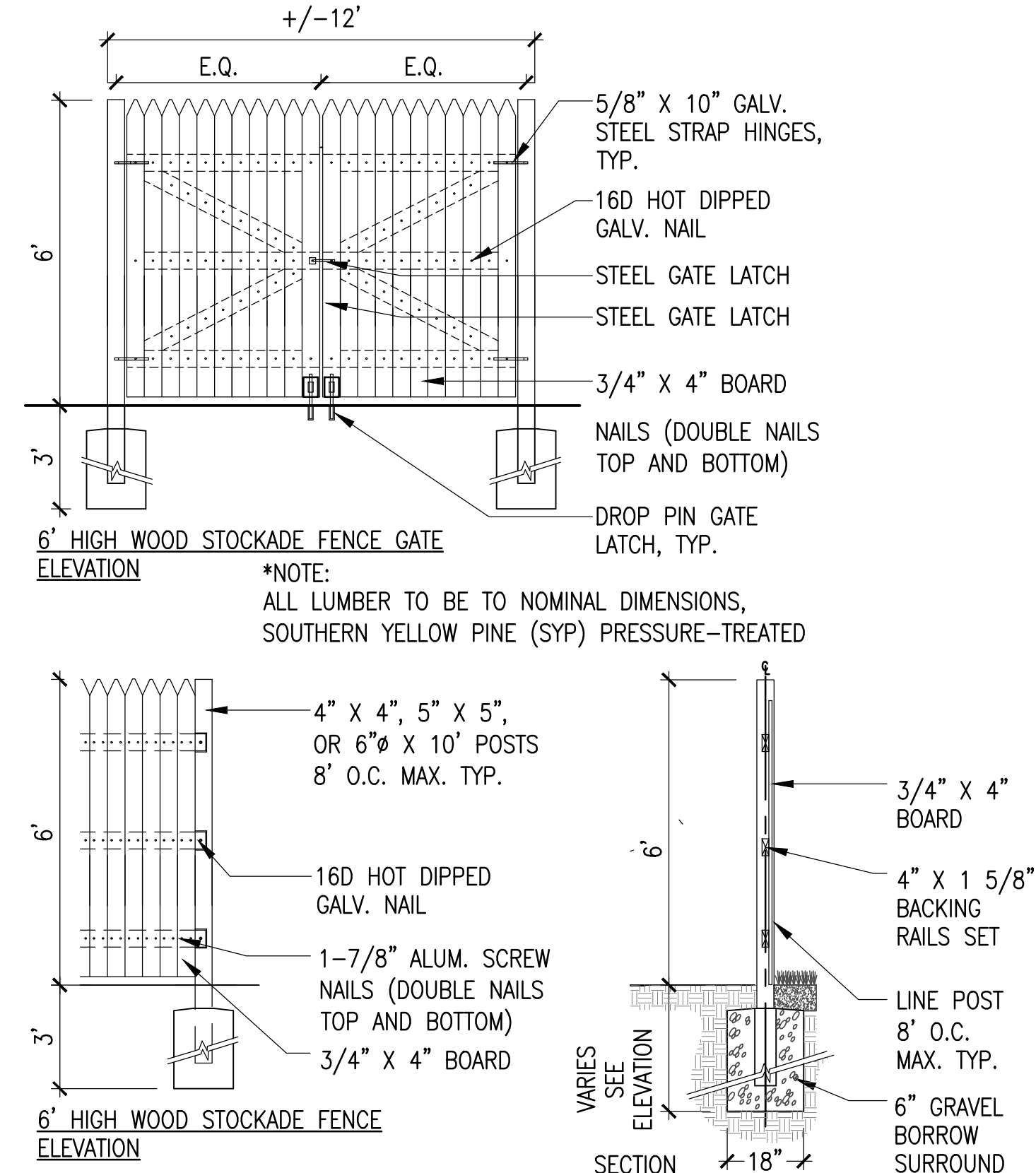
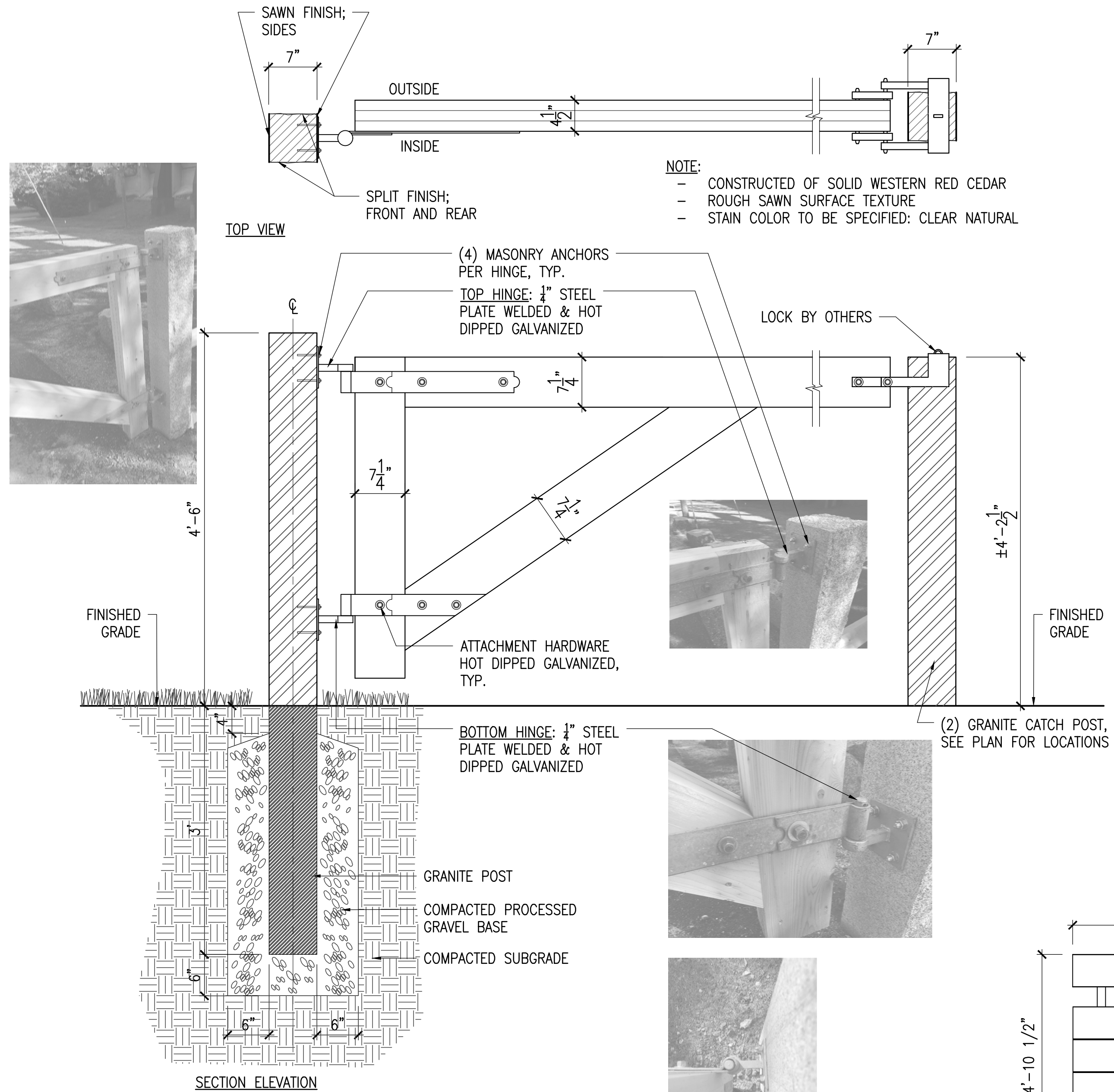
Job Number:
Project: ARLINGTON RES.
Drawn By: JL/MD/RB Checked By: KZ
Date: NOVEMBER 13, 2020
Scale: AS SHOWN
Drawing Title:

DETAILS

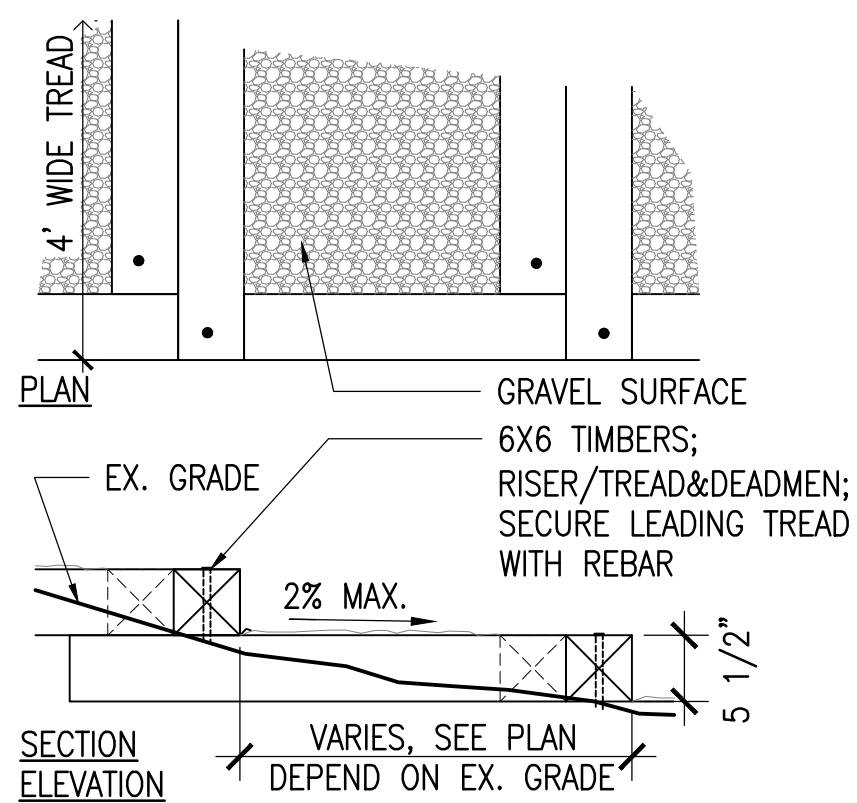
LD1.4

**ARLINGTON
RESERVOIR -
PHASE 2**

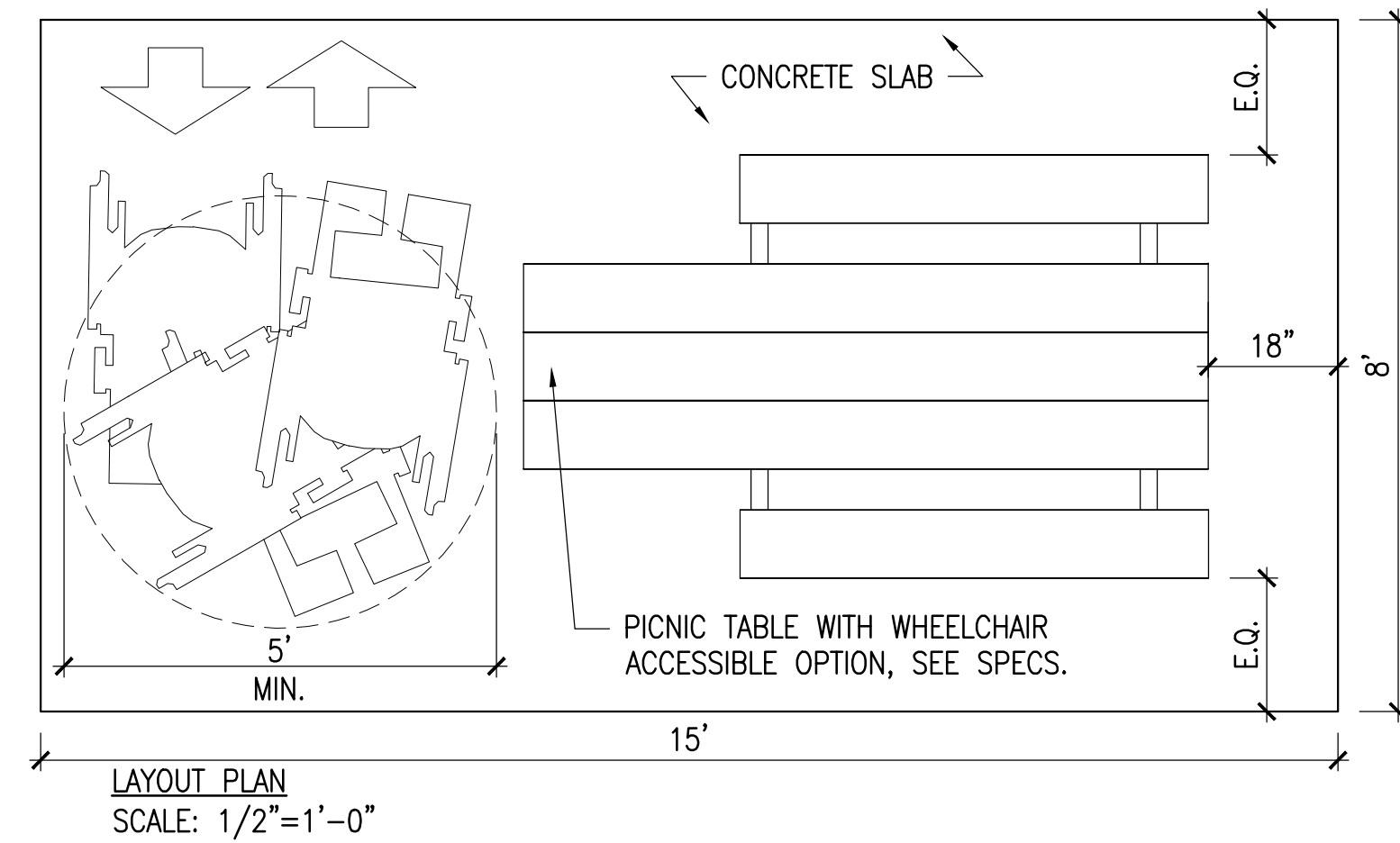
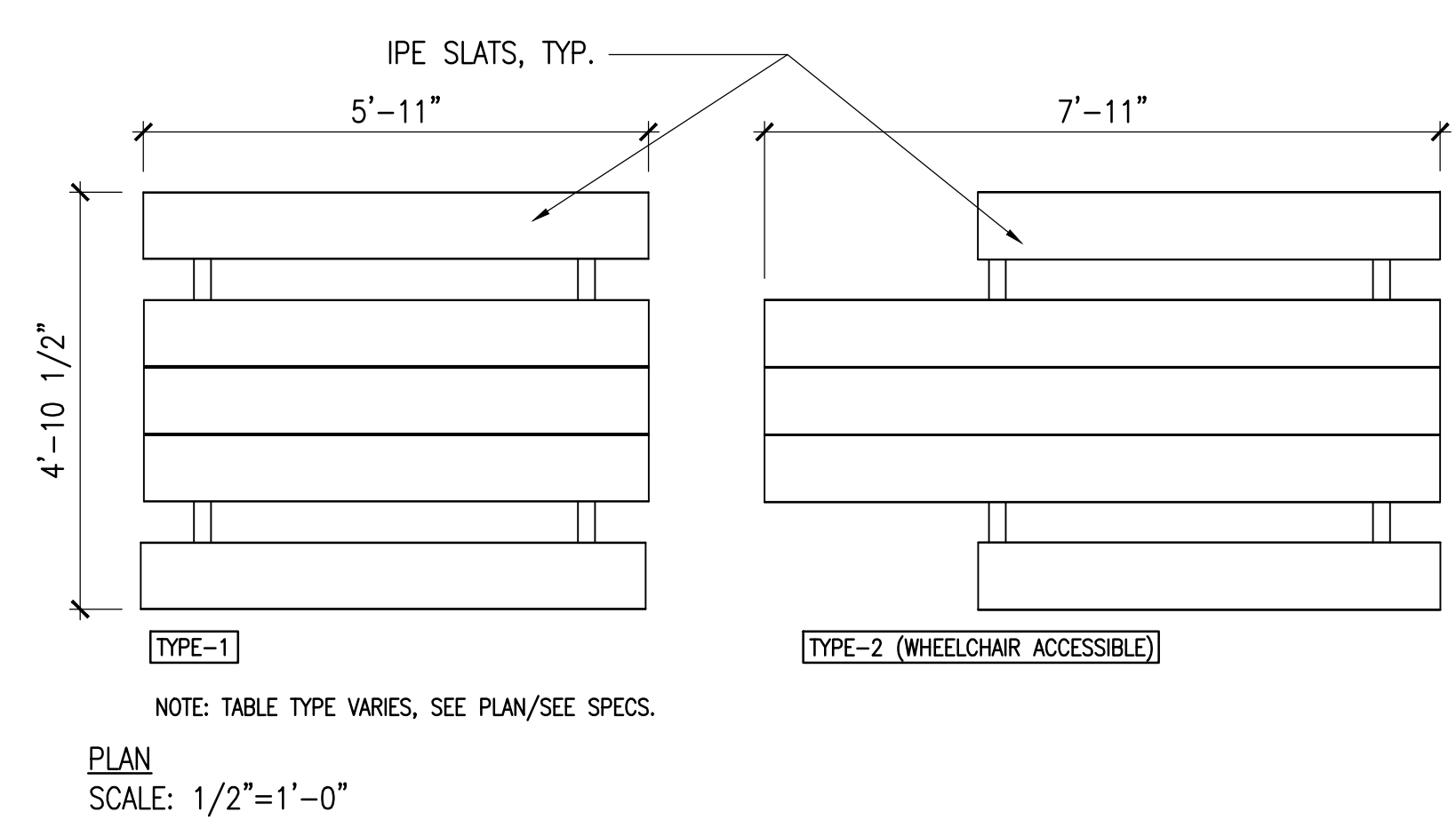
ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



1 WOODEN GATE W/ GRANITE POST
SCALE: 1" = 1'-0"



- NOTE:
1. LUMBER TO BE TREATED WITH LOW TOXICITY WOOD PRESERVATIVE
 2. GRAVEL COLOR TO BE APPROVED BY LANDSCAPE ARCHITECT
 3. TREAD LAYER TO BE FIRM AND STABLE CRUSHED STONE MIX
 4. BASE LAYER TO BE FREE-DRAINING CRUSHED STONE
 5. RISERS SHALL BE CONSISTENT THROUGHOUT STAIR RUN
 6. ANCHORING TO SUBGRADE TO BE DESIGNED BY CONTRACTOR, AS NECESSARY



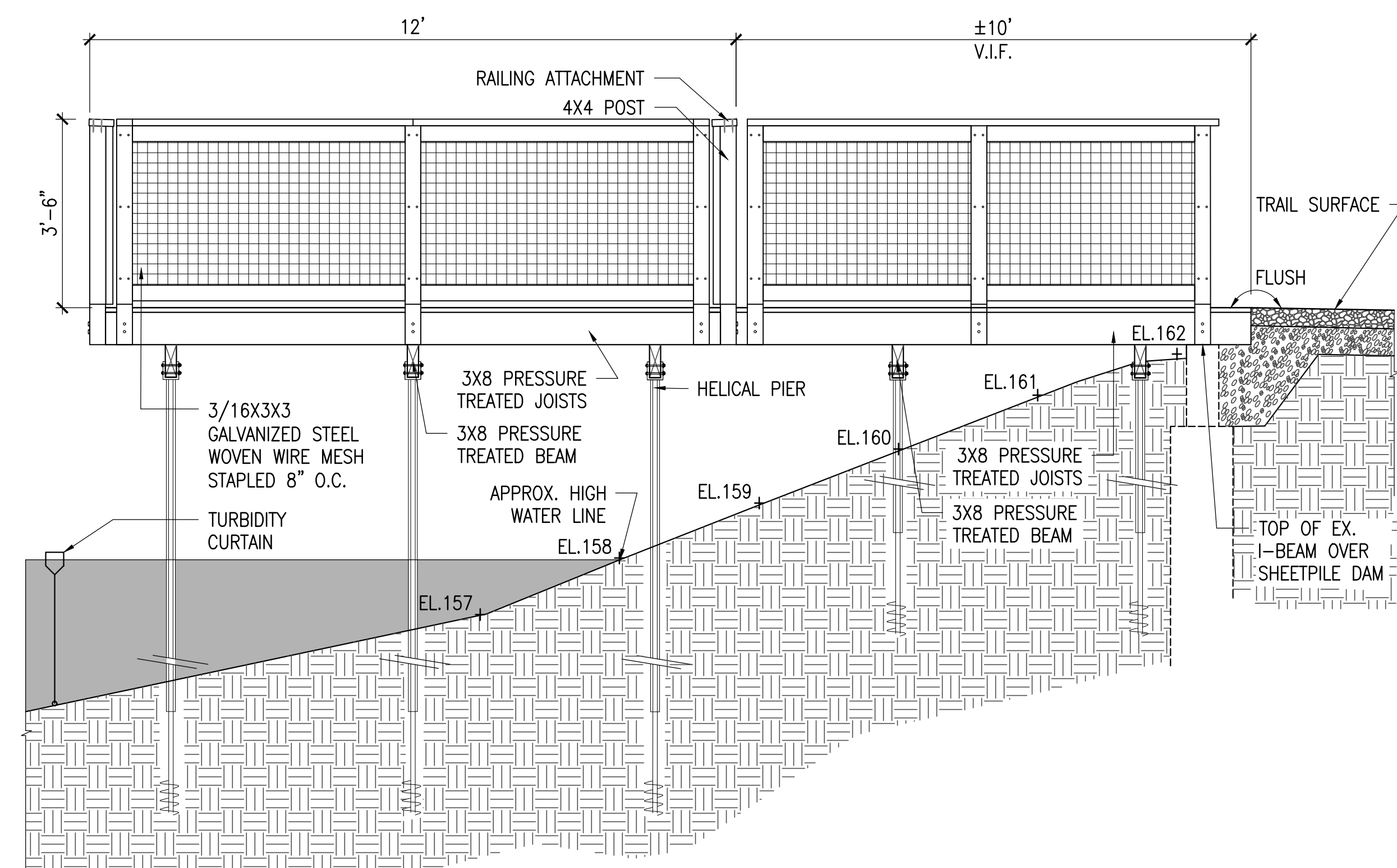
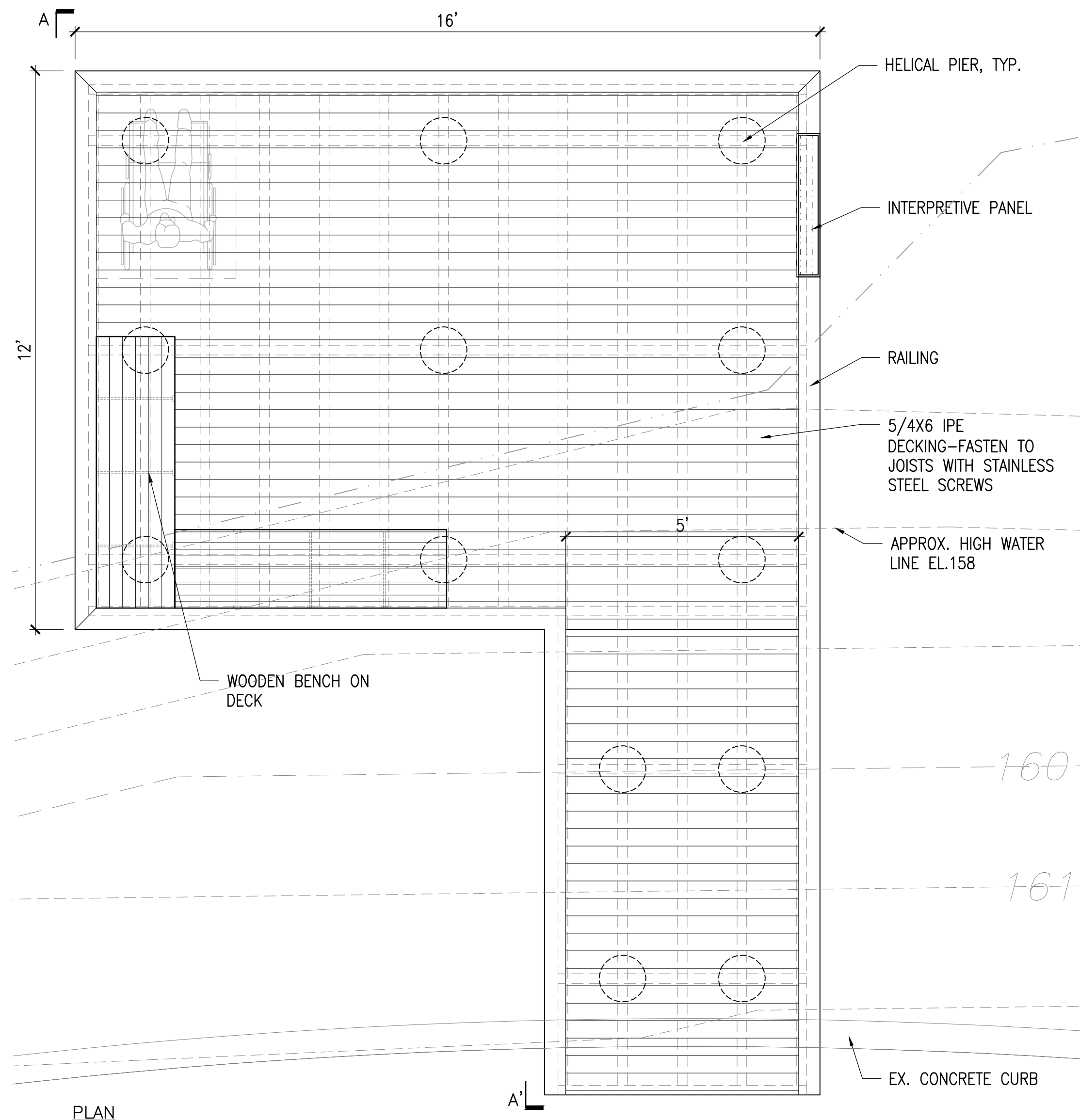
NO.	REVISION	DATE



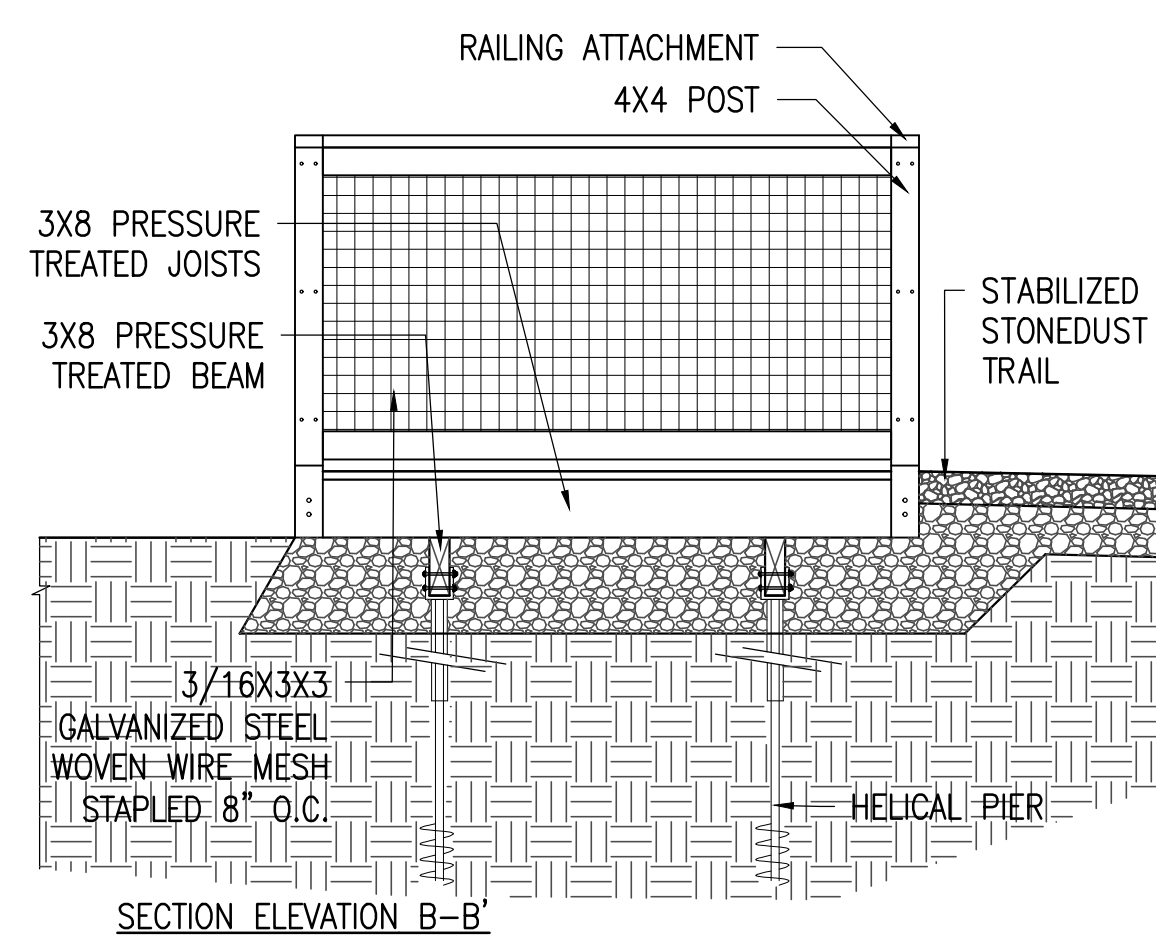
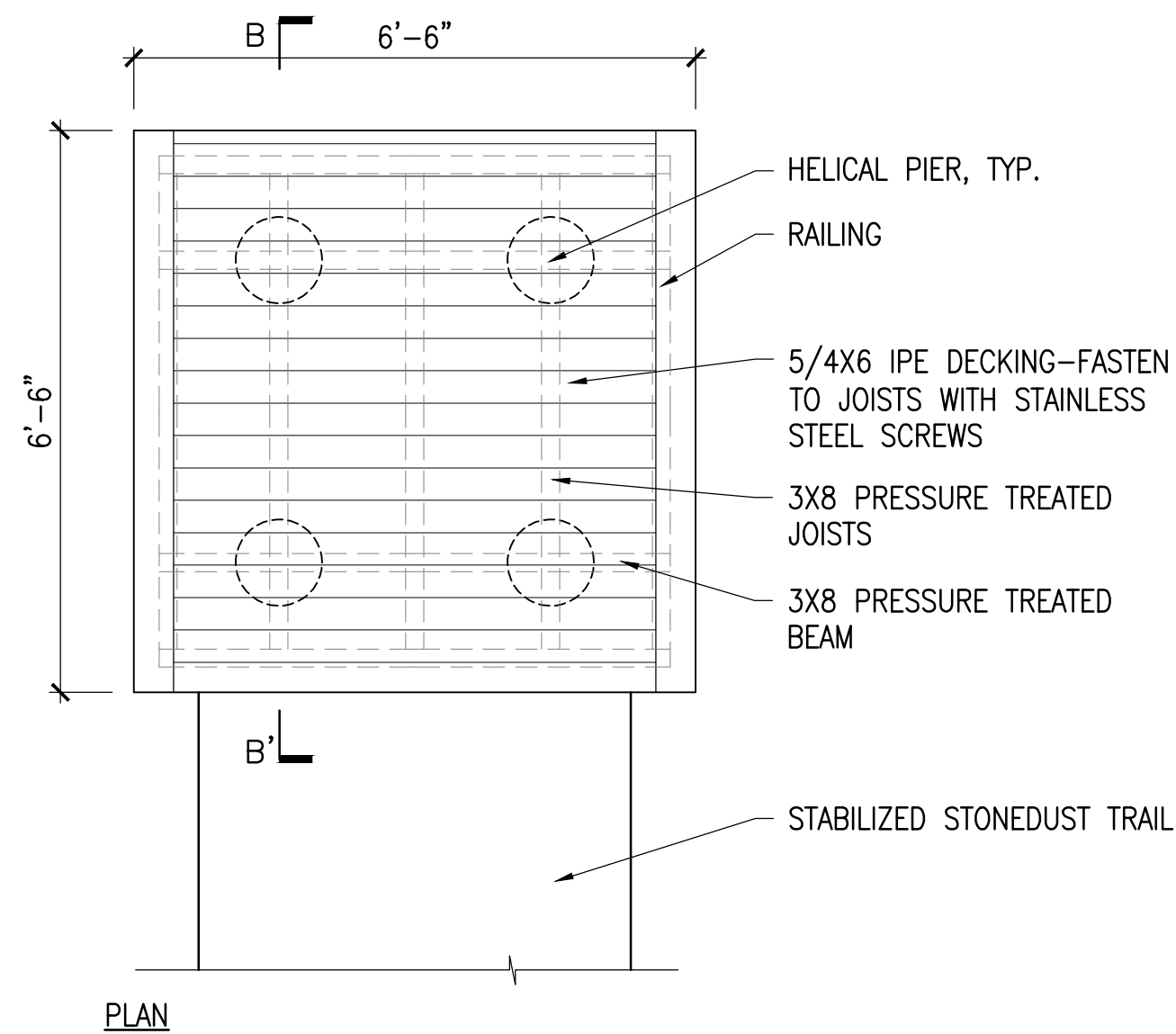
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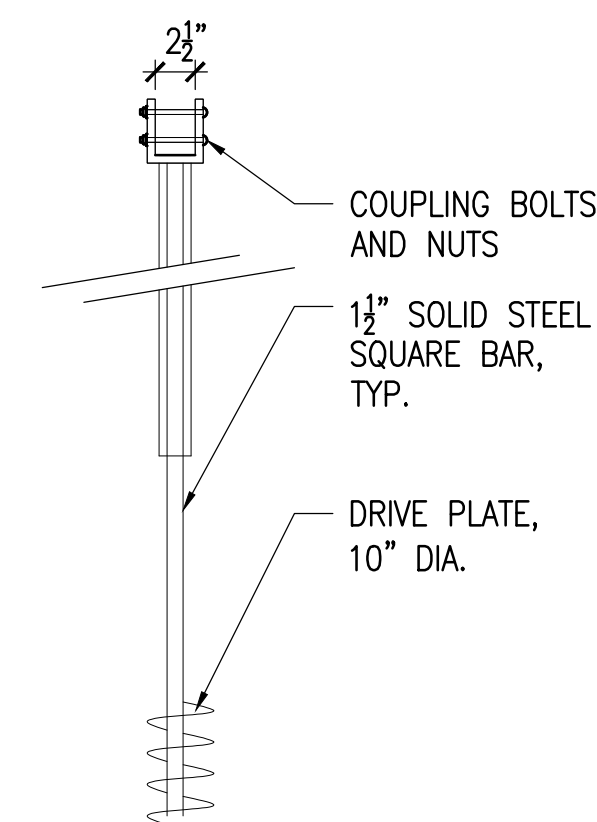
DETAILS
LD1.5



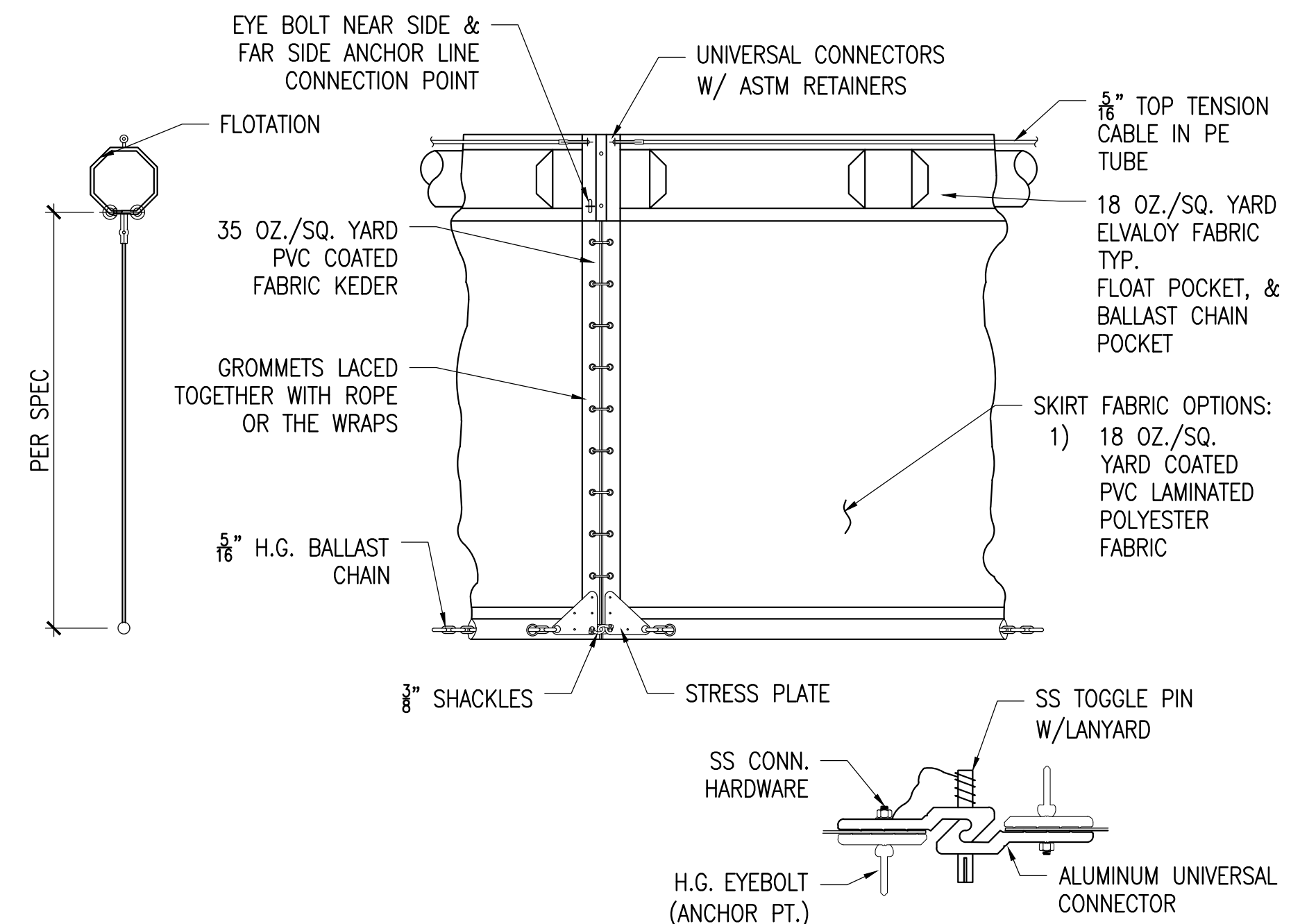
1 OVERLOOK TYPE-1
SCALE: 1/2" = 1'-0"



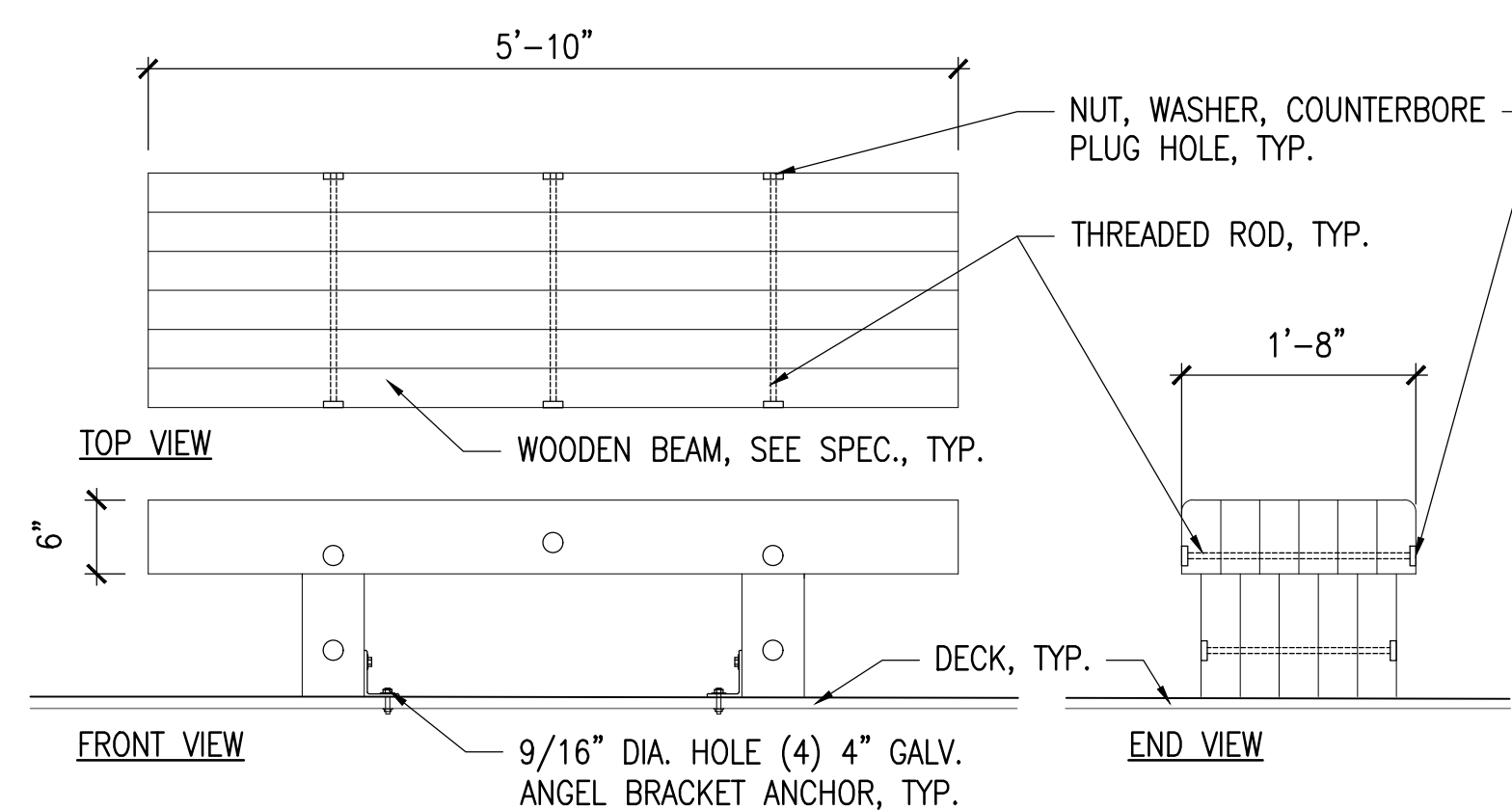
2 OVERLOOK TYPE-2
SCALE: 1/2" = 1'-0"



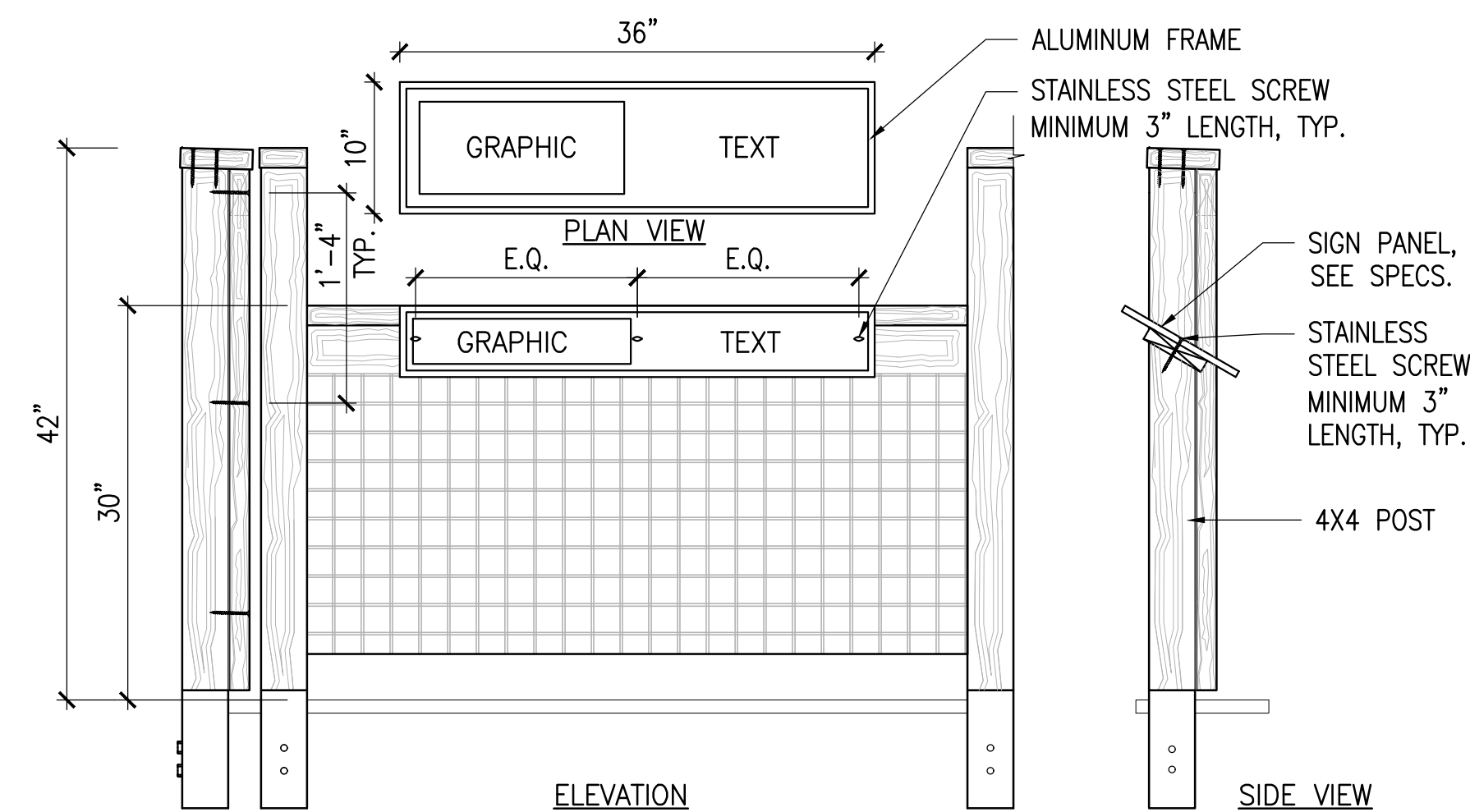
3 HELICAL PIER
SCALE: 1" = 1'-0"



4 TURBIDITY CURTAIN
SCALE: 1" = 1'-0"



5 WOODEN BENCH ON DECK
SCALE: 3/4" = 1'-0"



6 INTERPRETIVE PANEL
SCALE: 1" = 1'-0"

ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

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36 Bronnfield Street Suite 202
Boston, MA 02108
617 451-1018 Tel
www.kyiezick.com



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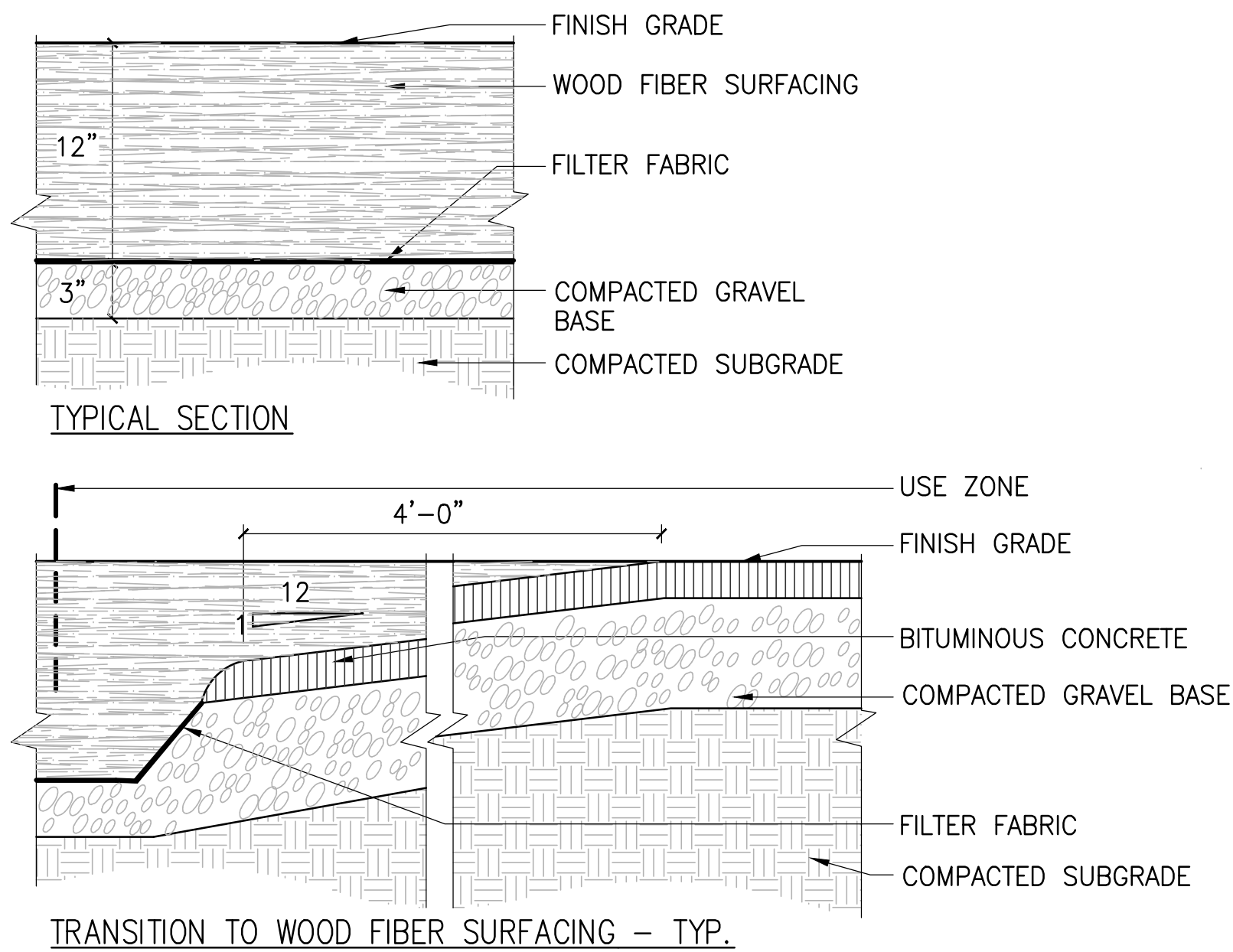
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DETAILS

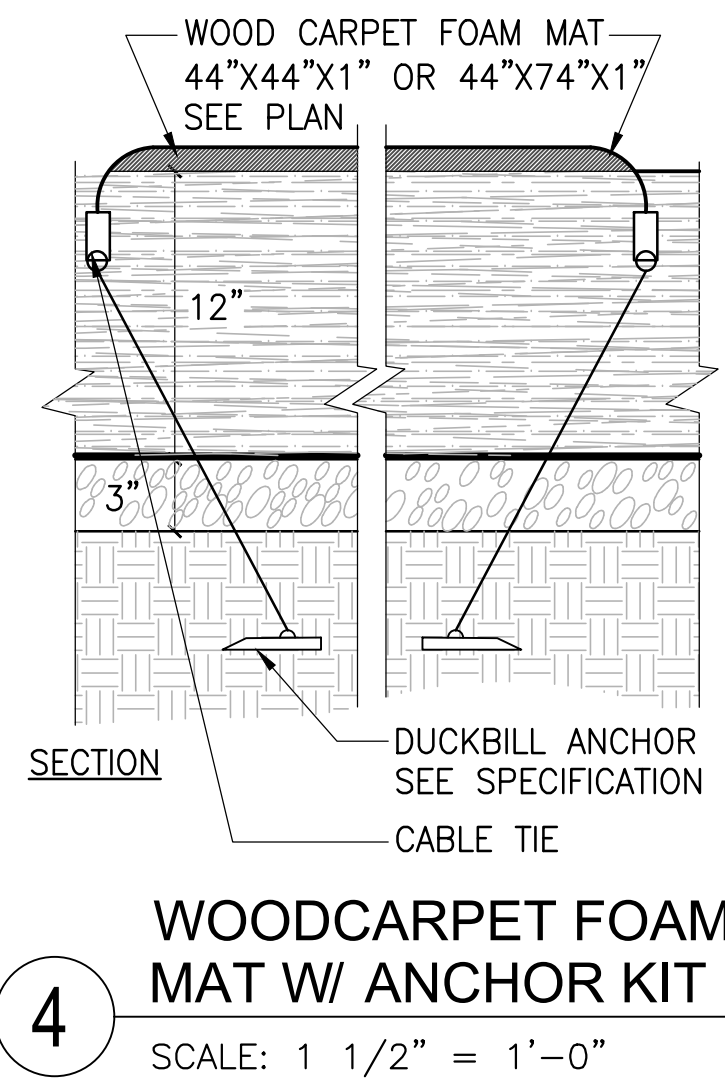
LD1.7

ARLINGTON RESERVOIR - PHASE 2

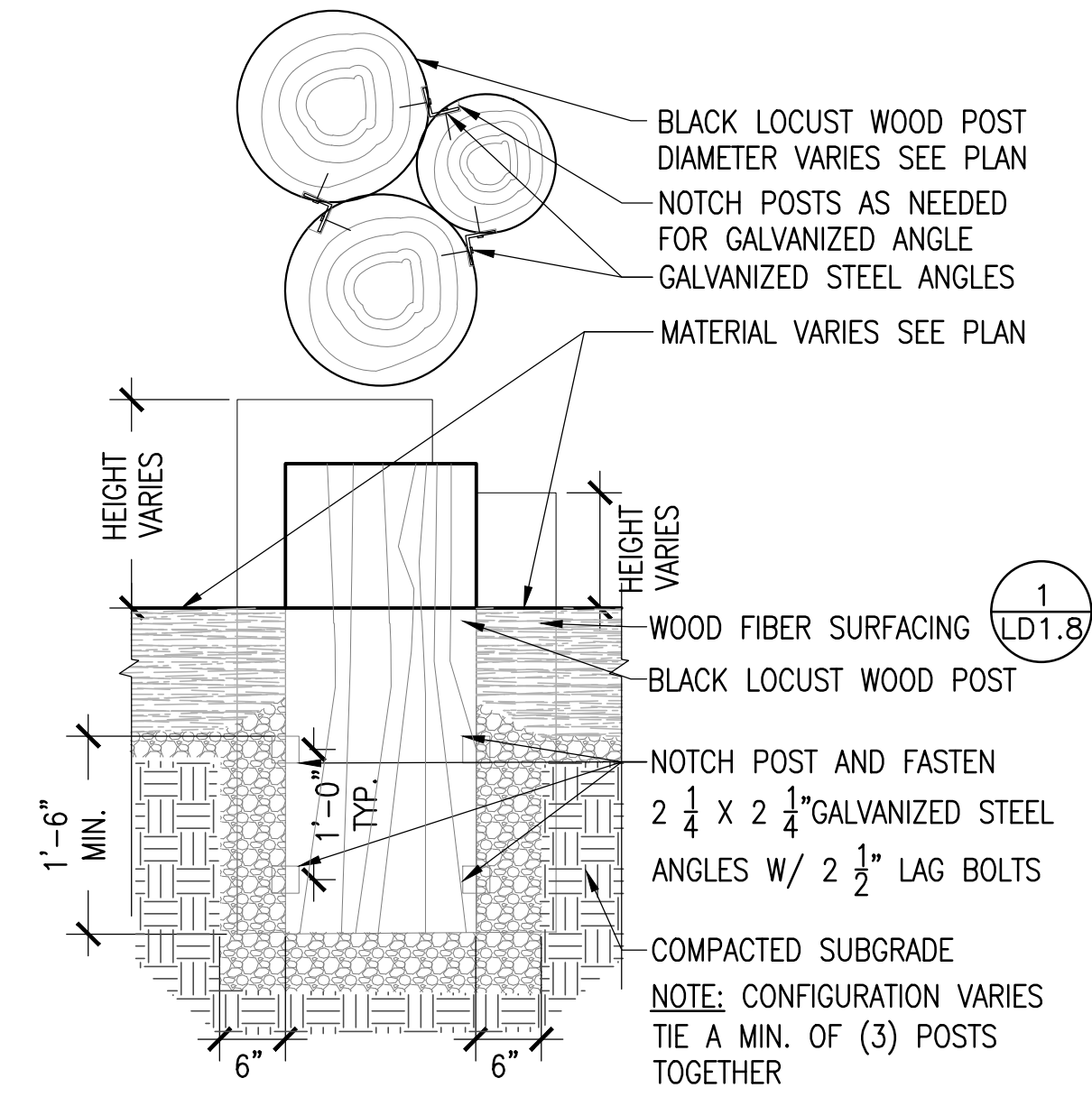
ARLINGTON, MASSACHUSETTS
TOWN OF ARLINGTON



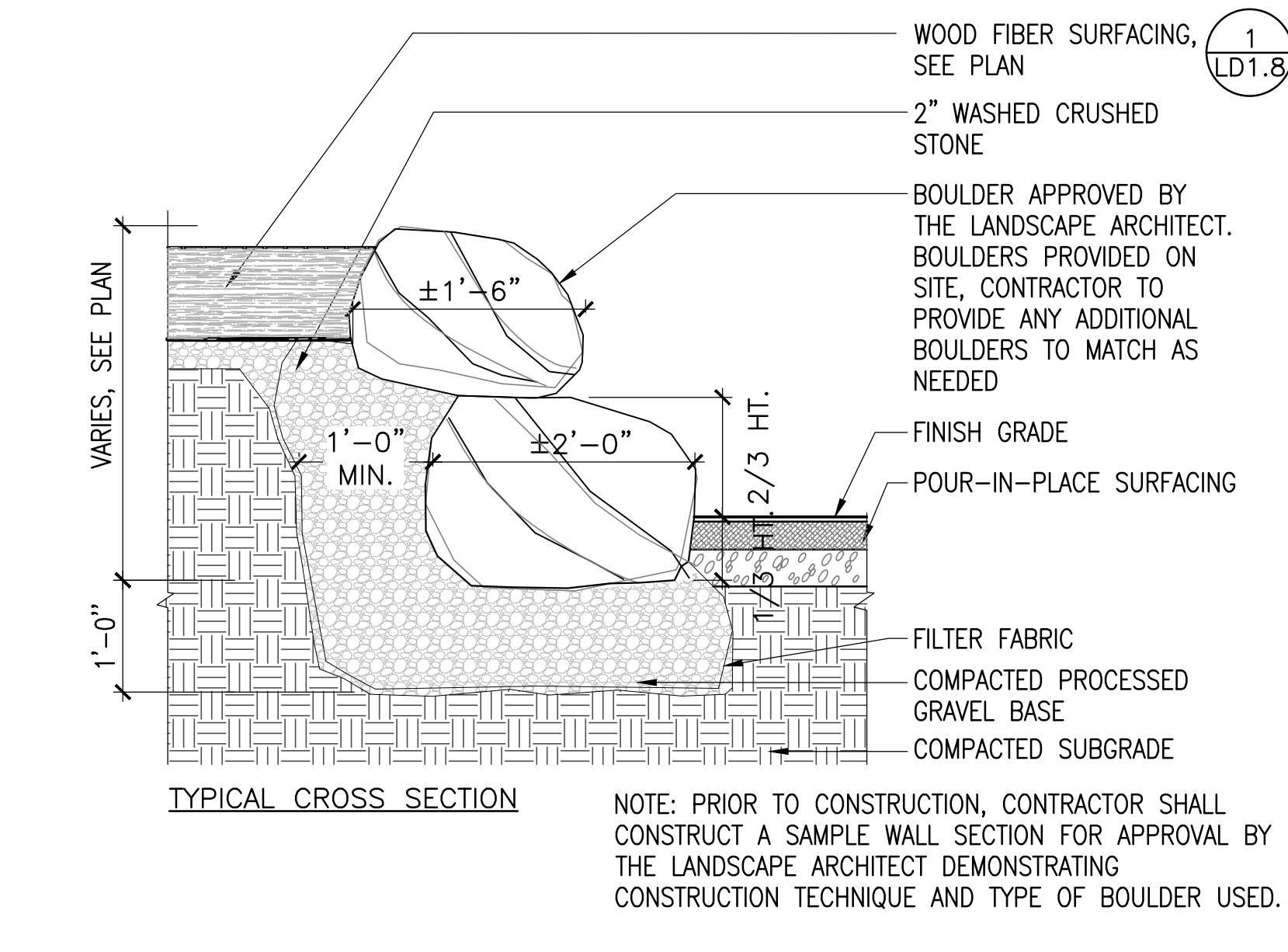
1 WOOD FIBER SURFACING
SCALE: 1 1/2" = 1'-0"



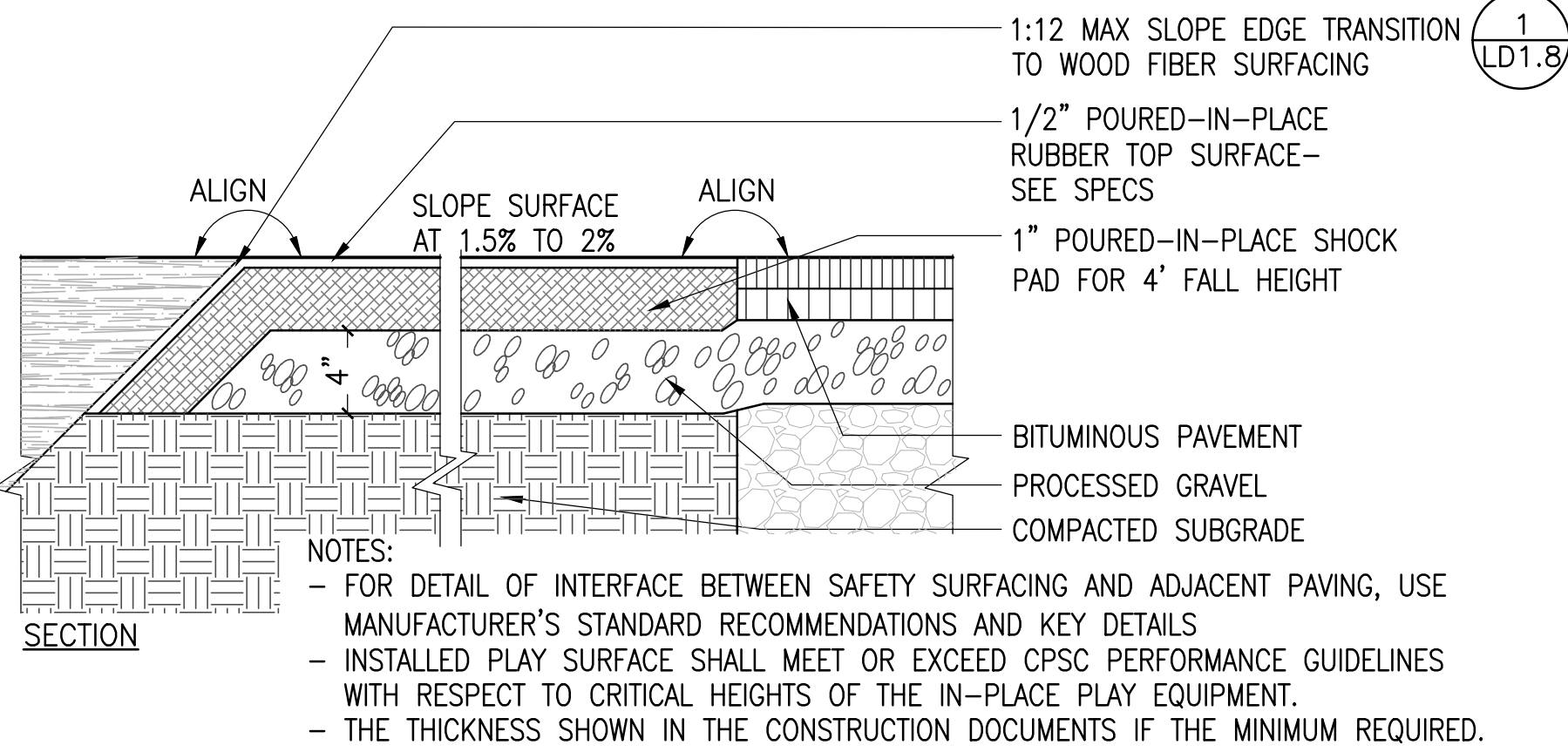
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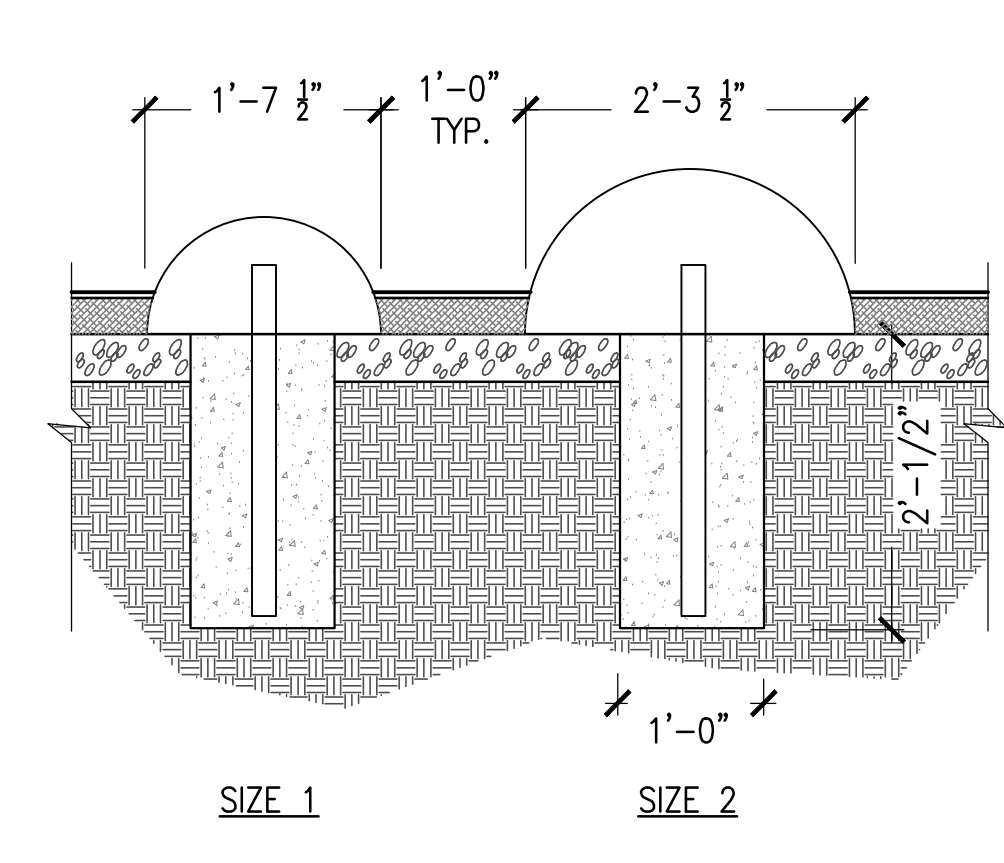
6 ROBINIA POST
SCALE: 3/4" = 1'-0"



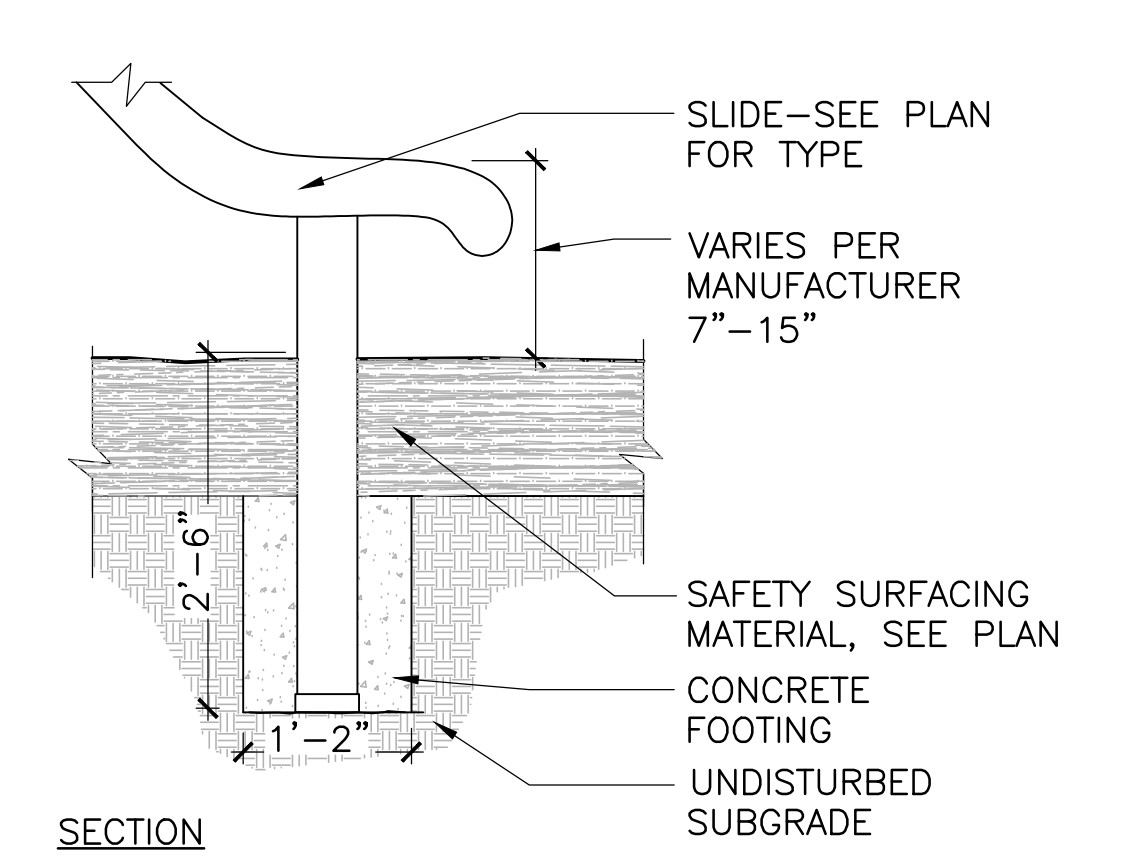
8 BOULDER RETAINING WALL
SCALE: 3/4" = 1'-0"



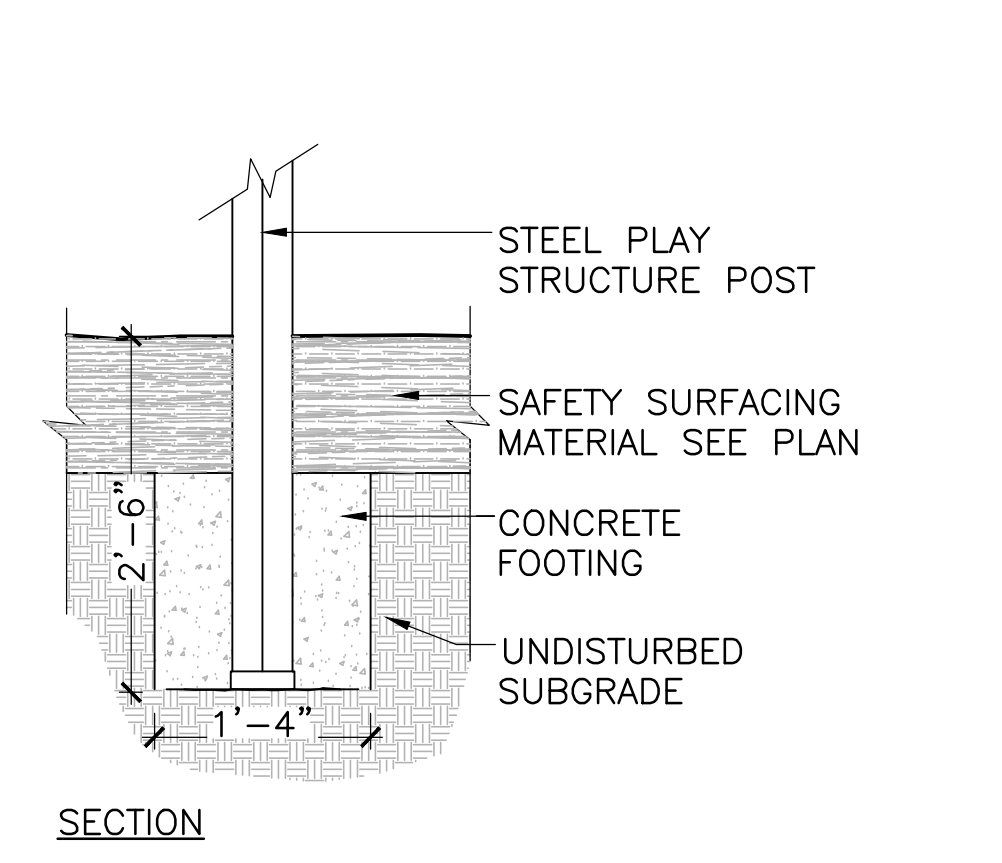
2 POUR-IN-PLACE SURFACING
SCALE: 1 1/2" = 1'-0"



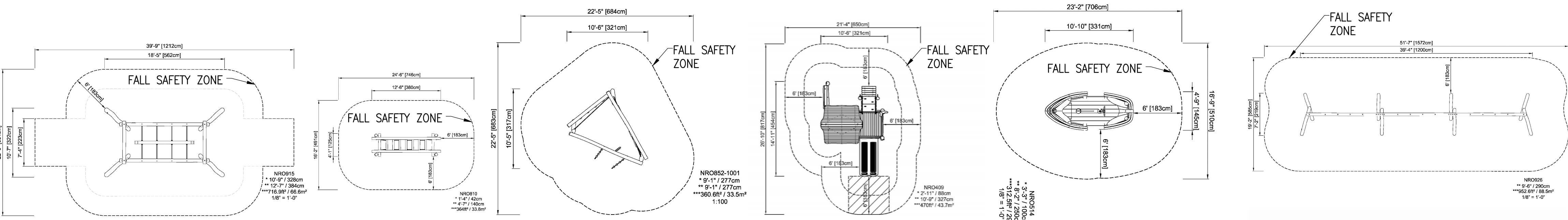
5 RUBBER HALF SPHERES
SCALE: 3/4" = 1'-0"



7 SLIDE BOTTOM FOOTING
SCALE: 3/4" = 1'-0"



9 EQUIPMENT POST FOOTING
SCALE: 3/4" = 1'-0"



PLAY STRUCTURE 1



PLAY STRUCTURE 2



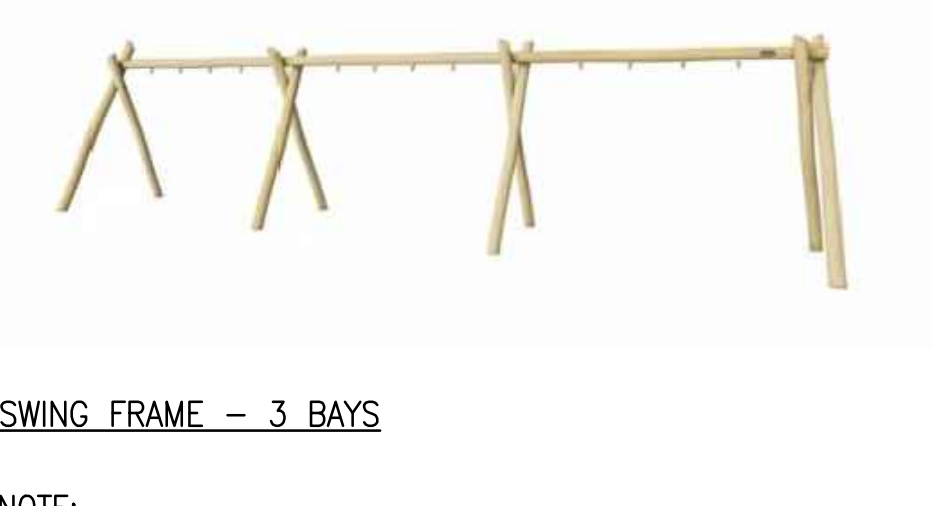
PLAY STRUCTURE 3



PLAY STRUCTURE 4



WOODEN SAILBOAT



SWING FRAME - 3 BAYS



EMBANKMENT SLIDE - HDPE. SEE SPECS FOR COLORS.



SPRING RIDER

SEE 9 LD1.8 FOR EQUIPMENT POST FOOTING

NOTE:
- SEE SPEC FOR EQUIPMENT FINISHES AND COLORS
- INSTALLED PLAY SURFACE SHALL MEET OR EXCEED CPSC PERFORMANCE GUIDELINES WITH RESPECT TO CRITICAL FALL HEIGHTS OF THE IN-PLACE PLAY EQUIPMENT.

3 PLAY EQUIPMENT
SCALE: N.T.S.

NO.	REVISION	DATE

kzla
Kylie Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 Boston, MA 02108 617 451-1018 Tel www.kyiezick.com



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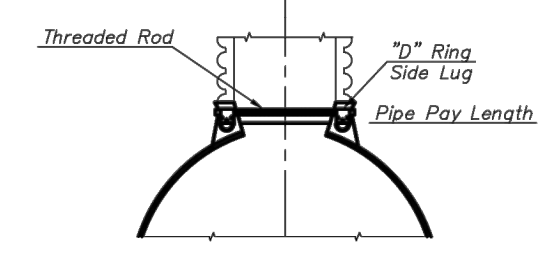
DETAILS
LD1.8

Di.	Gauge	Weight	* A	* H	* L	* W	Slope	Overall Width		
8"	18	10	4	3	8	12	2	20"		
8"	18	14	6	3 1/4	6	14	1/2	18	2 1/4	27 1/2"
10"	18	17	7	5/8	6	14	1/2	20	2 1/2	35 1/4"
12"	16	25	7	6	21	24	2 1/2	38"		
15"	16	33	8	6	26	30	2 1/2	46"		
18"	16	42	8	6	31	36	2 1/2	52"		
21"	16	49	9	6	36	42	2 1/2	60"		
24"	16	65	10	6	41	48	2 1/2	68"		
30"	14	123	12	8	51	60	2 1/2	84"		
36"	14	135	14	9	60	72	2 1/2	100"		
42"	12	320	16	11	69	84	2 1/2	116"		
48"	12	375	18	12	78	90	2 1/4	126"		
54"	12	440	18	12	84	102	2 1/4	138"		
60"	12/10	610	18	12	87	114	2	150"		

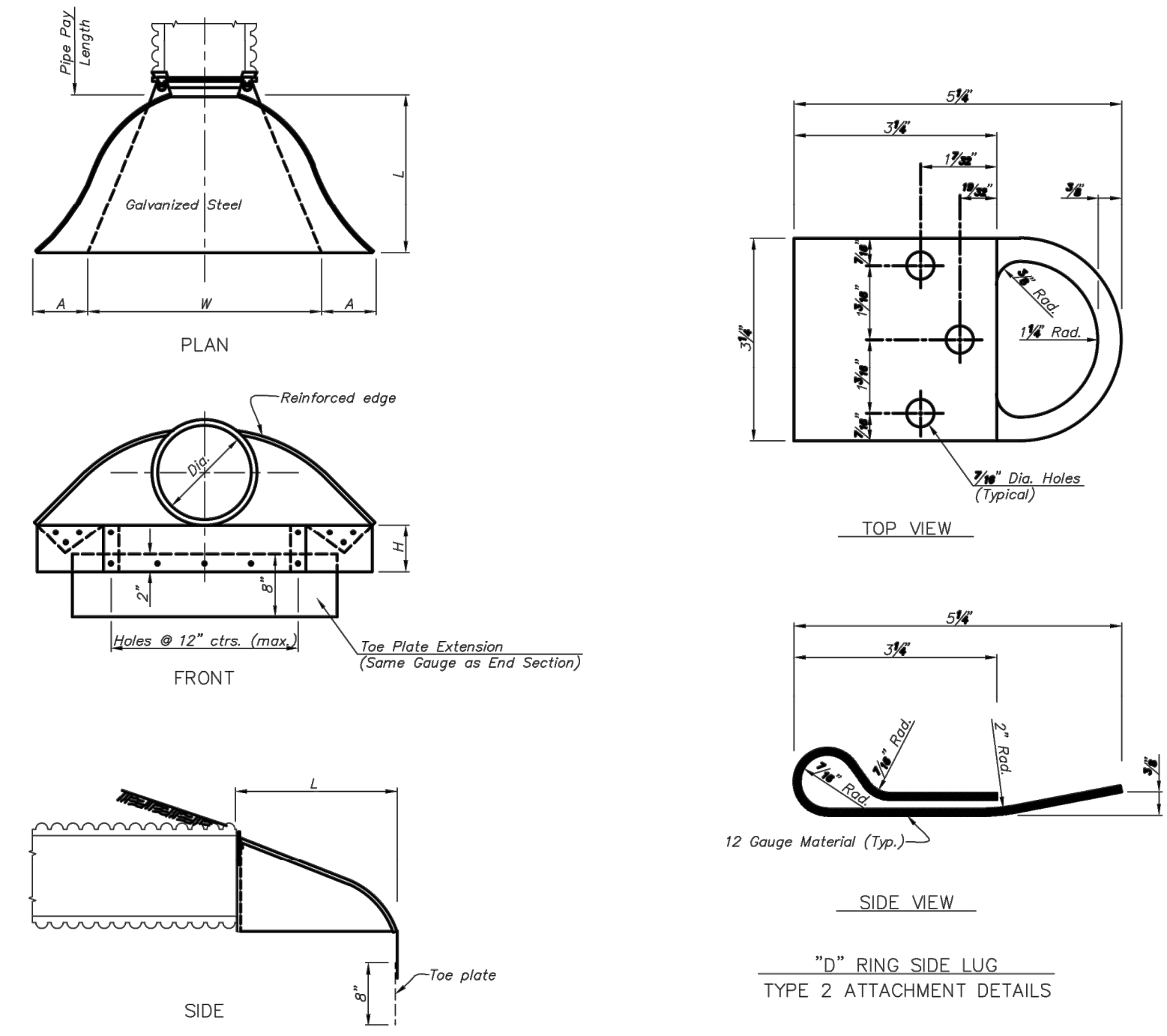
Toe plate extensions where specified, to be punched to match holes in open lip. 3/8" bolts to be furnished. The length of toe plate to be as follows: W + 10" for 12" to 30" diameter pipes inclusive. W + 20" for 36" to 60" diameter pipes inclusive.

Multiple panel end sections shall have lap seams which are to be tightly jointed by bolts. Corner plate, and toe plate to be same gauge as end section.

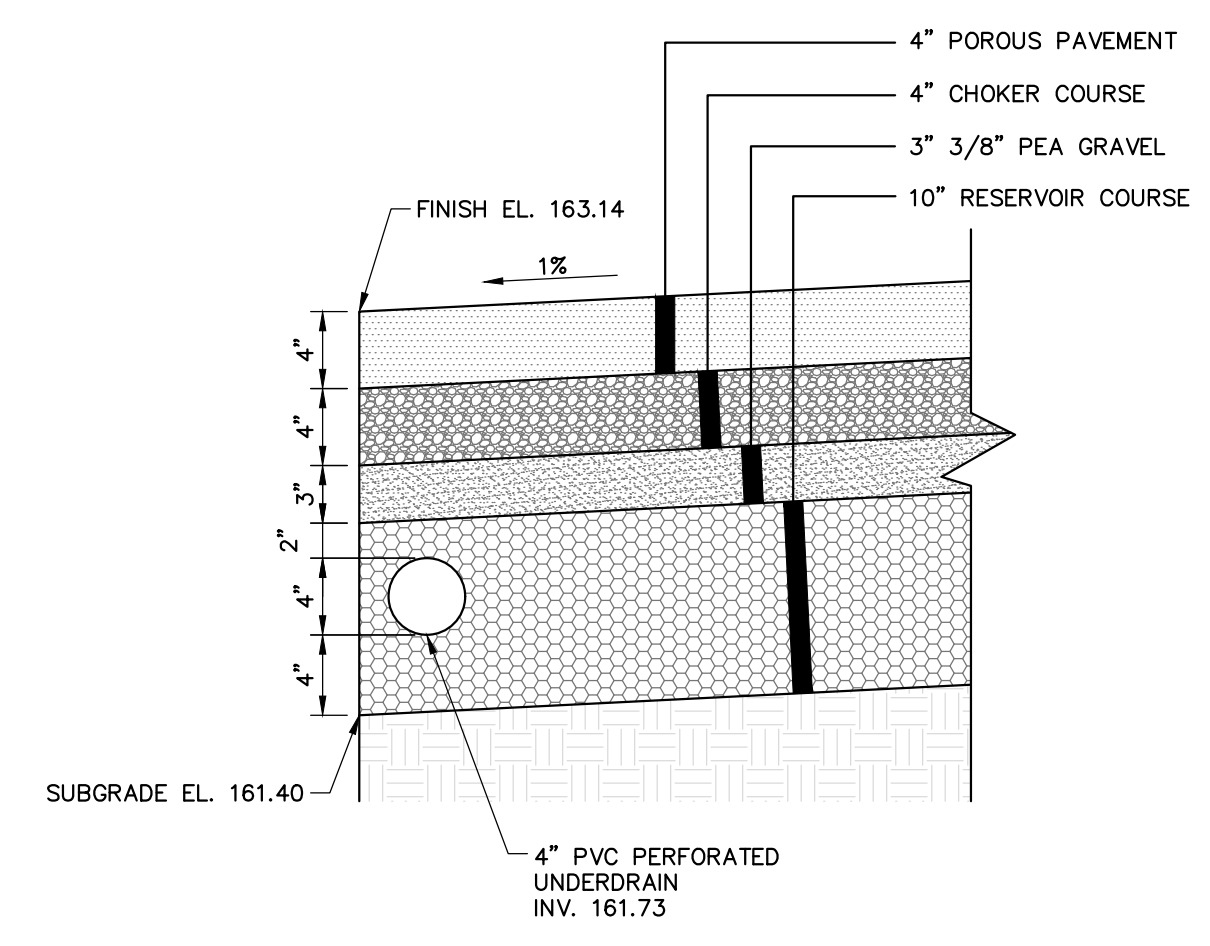
* - Dimensions in Inches Plus or Minus Standard Shop Tolerance.



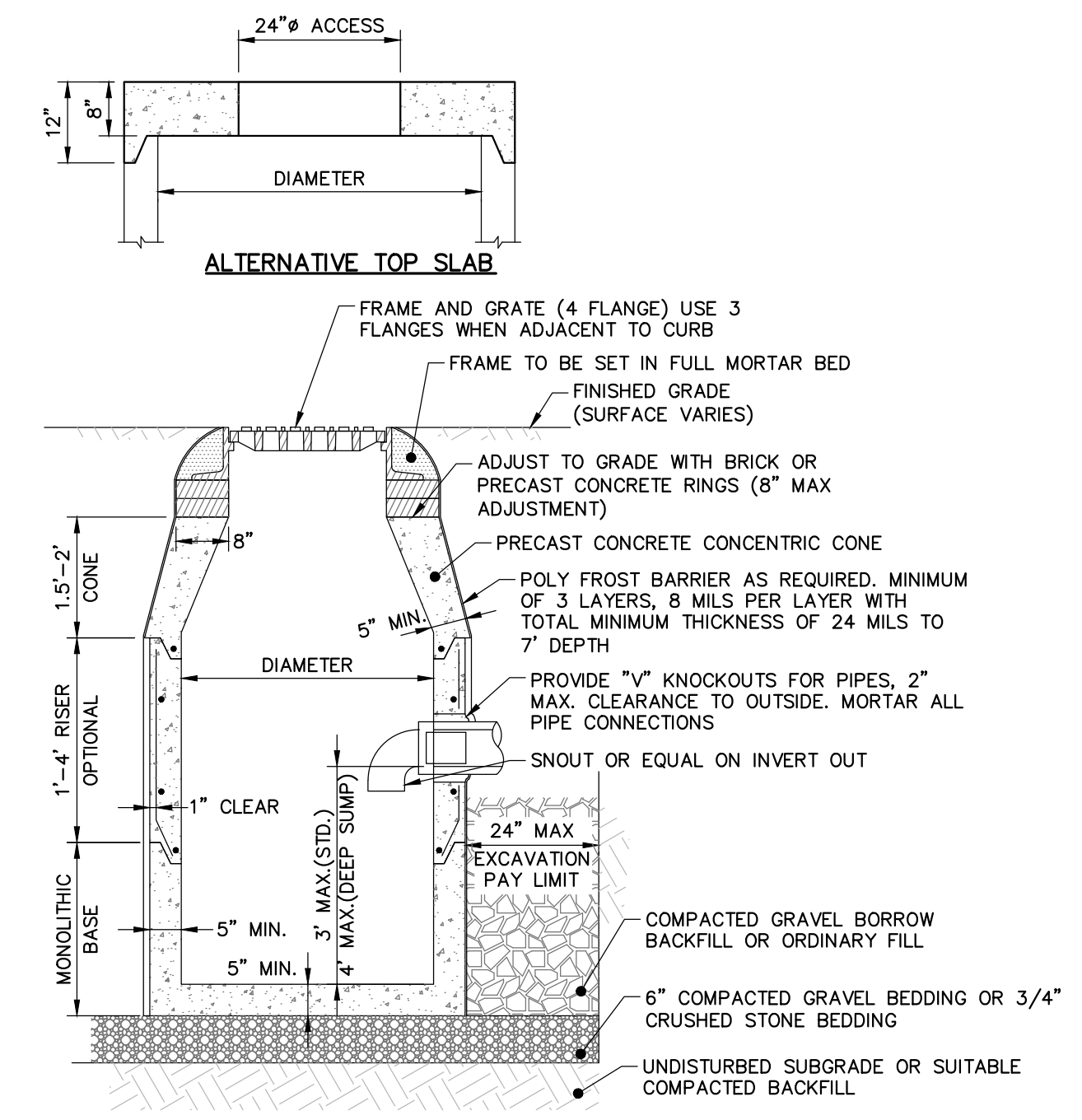
TYPE 2 CONNECTIONS
(12" & Larger)



FLARED PIPE END DETAIL
N.T.S.

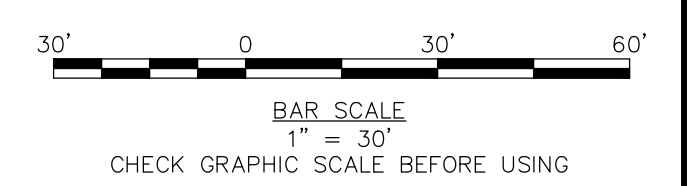
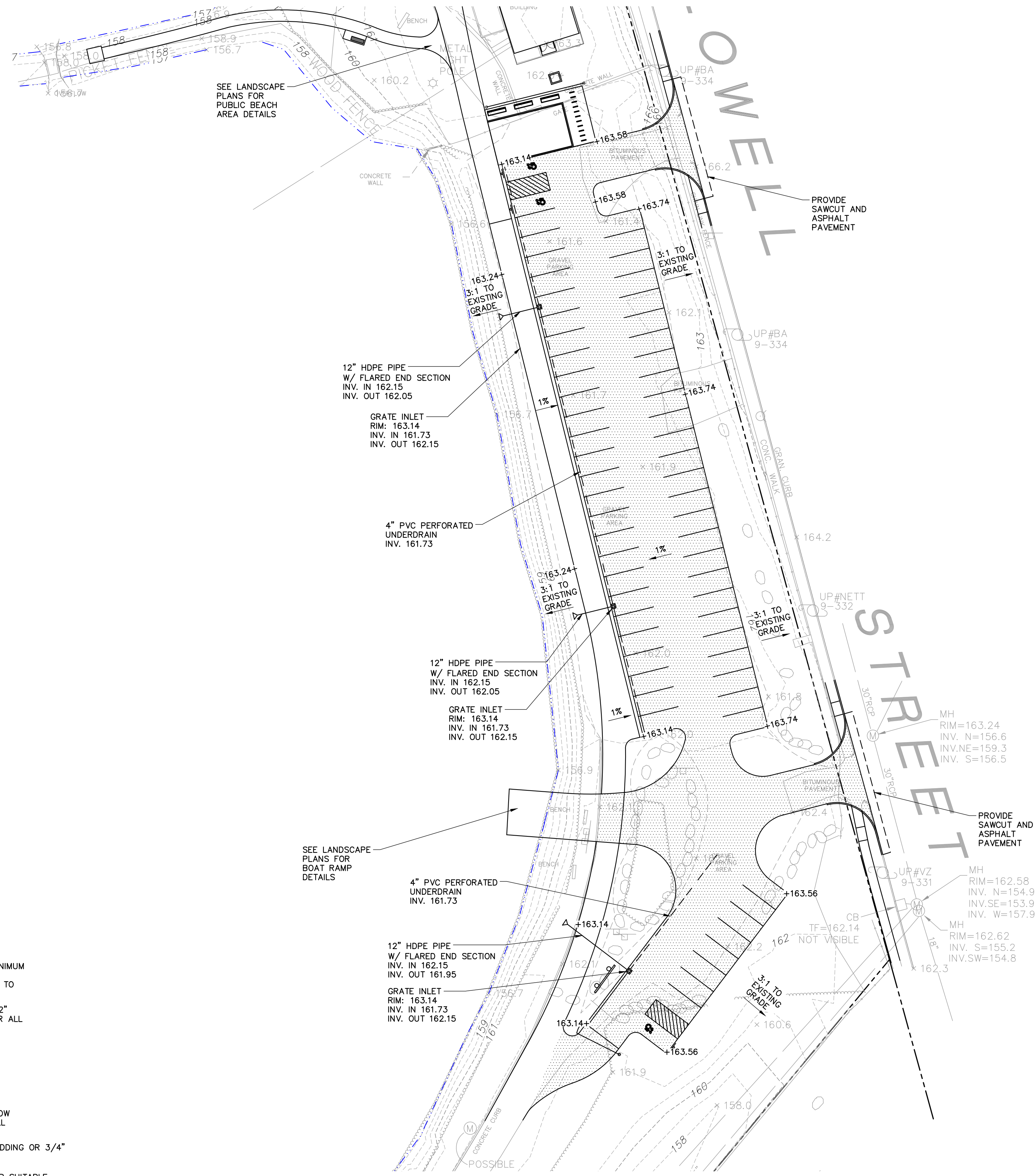


POROUS PAVEMENT SECTION
N.T.S.



- NOTES:
1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
 2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
 3. ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
 5. CATCH BASIN FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND STATE SPECIFICATIONS WHEN APPLICABLE.

PRECAST CONCRETE CATCH BASIN
NOT TO SCALE



NOT FOR CONSTRUCTION

40 Shattuck Road, Suite 110
Andover, Massachusetts 01910
866.702.6371 | www.woodardcurran.com

WOODARD & CURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS



REV	DESCRIPTION	DATE
DESIGNED BY: L.T.	CHECKED BY: B.M.	02/23/2020 - C1-04
DRAWN BY: B.C.M.		

DRAINAGE PLAN

TOWN OF ARLINGTON
ARLINGTON, MASSACHUSETTS

ARLINGTON RESERVOIR
PHASE 2

JOB NO.: 0233115.00
DATE: NOVEMBER 2020
SCALE: 1" = 30'
SHEET: 1 OF 2

C1.0

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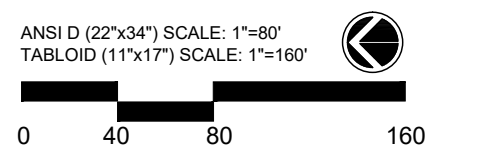
ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



- LEGEND
- PROPERTY LINES
 - - - EX. MAJOR CONTOUR (5' INTERVAL)
 - - - EX. MINOR CONTOUR (1' INTERVAL)
 - TOP OF BANK
 - 100' TOP OF BANK BUFFER
 - 200' RIVERFRONT AREA
 - AREA 'A' BANK RESTORATION - 12" VERTICAL BANK CUT - ACTION PROPOSED
 - AREA 'B' BANK RESTORATION - 12" VERTICAL BANK CUT - ACTION PROPOSED
 - AREA 'C' BANK RESTORATION: STABLE SLOPE - REVEGETATION PROPOSED
 - AREA 'D' BANK RESTORATION: STABLE SLOPE - NO ACTION PROPOSED
 - AE FLOOD ZONE: 1% ANNUAL CHANCE OF FLOODING, WITH BASE FLOOD ELEVATION
 - EMBANKMENT
 - SIGNIFICANT INVASIVE POPULATION AREA



NO.	REVISION	DATE

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 ENVIRONMENTAL CONSULTANTS
 SWCA ENVIRONMENTAL CONSULTANTS
 15 RESEARCH DRIVE
 AMHERST, MA 01002 (P) 413.256.0202
 WWW.SWCA.COM

kzla
 Kyle Zick Landscape Architecture, Inc.
 36 Bromfield Street Suite 202
 Boston, MA 02108 617.451.1018 Tel
 WWW.KYLZICK.COM

DESIGN DEVELOPMENT SET

Job Number:
 Project: ARLINGTON RES.
 Drawn By: TS Checked By: MM
 Date: SEPTEMBER 29, 2020
 Scale:
 Drawing Title:

PROPOSED BANK RESTORATION AREAS

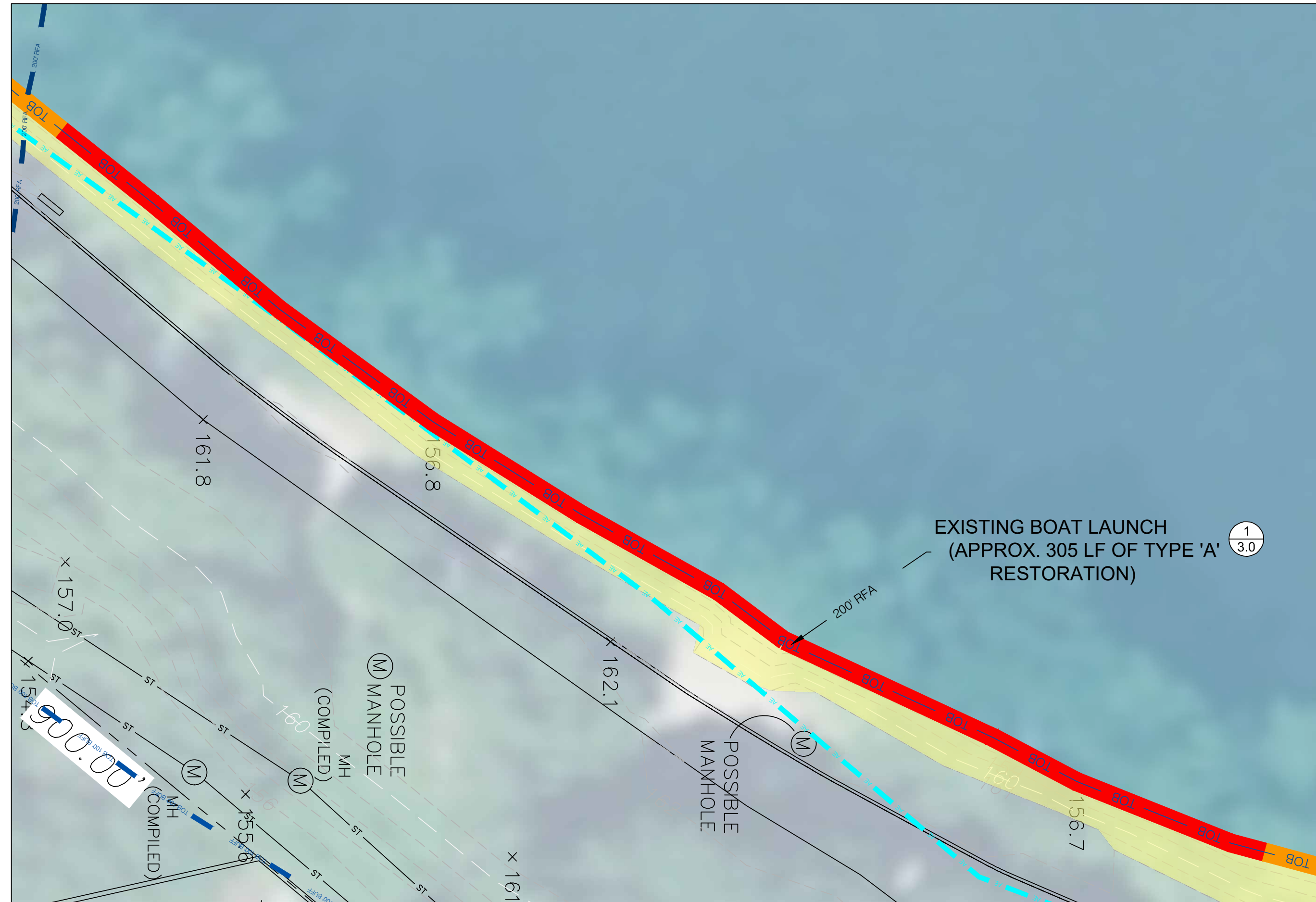
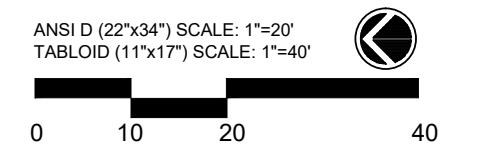
ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



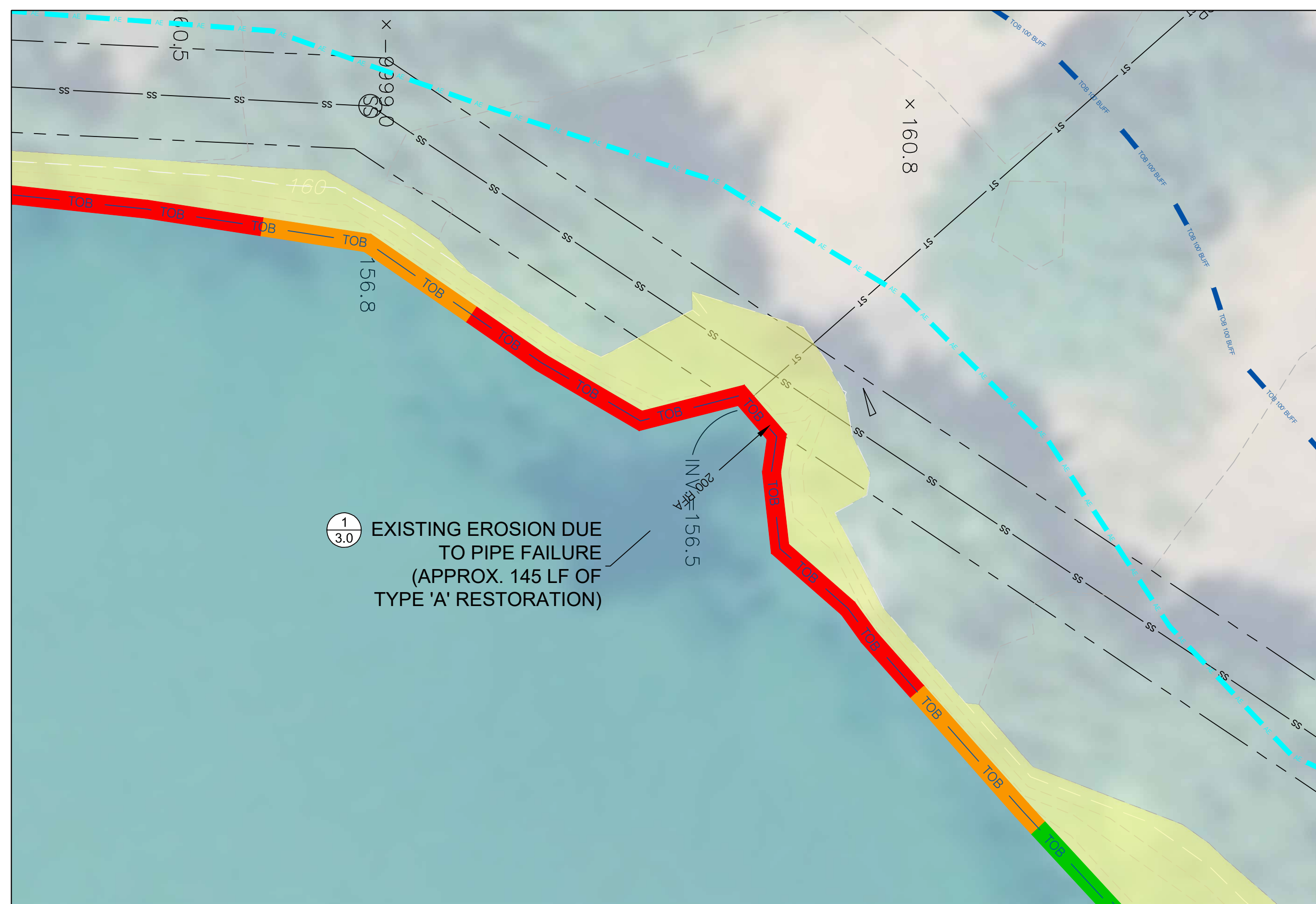
- LEGEND**
- PROPERTY LINES
 - - - EX. MAJOR CONTOUR (5' INTERVAL)
 - - - EX. MINOR CONTOUR (1' INTERVAL)
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 - AREA 'D' BANK RESTORATION: STABLE SLOPE - NO ACTION PROPOSED
 - - - 1% FLOOD ZONE: 1% ANNUAL CHANCE OF FLOODING WITH BASE FLOOD ELEVATION
 - EMBANKMENT
 - SIGNIFICANT INVASIVE POPULATION AREA



1 PHASE 1 AREA OF CONCERN: EXISTING BOAT LAUNCH
 Scale: 1" = 20'



2 PHASE 1 AREA OF CONCERN: EXISTING FISHING SPOT
 Scale: 1" = 20'



3 PHASE 1 AREA OF CONCERN: EXISTING EROSION DUE TO PIPE FAILURE
 Scale: 1" = 20'



1 PHASE 1 AREA OF CONCERN: EXISTING BOAT LAUNCH
 Scale: 1" = 20'

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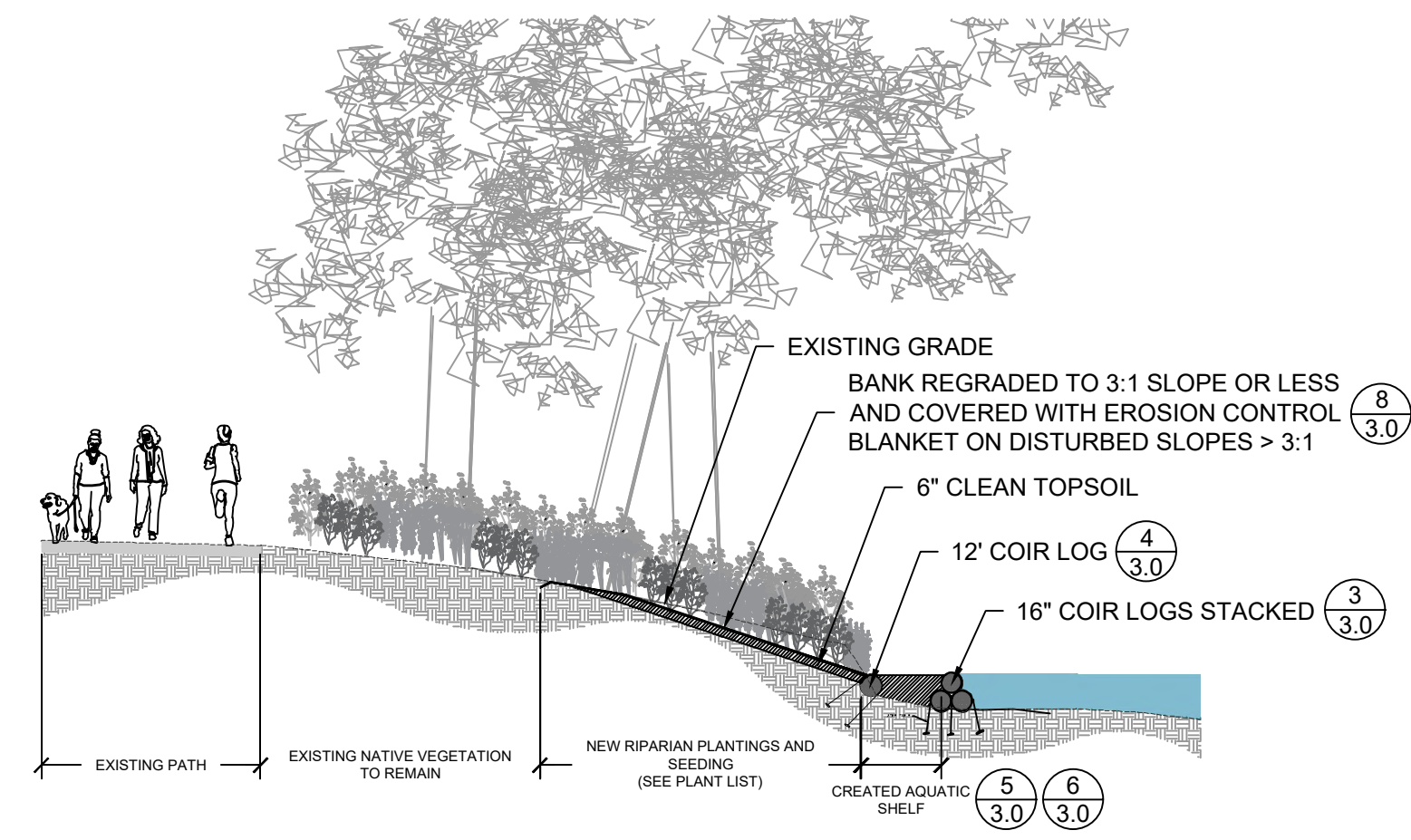
Job Number:
 Project: ARLINGTON RES.
 Drawn By: TS Checked By: MM
 Date: SEPTEMBER 29, 2020
 Scale:
 Drawing Title:

PROPOSED AREAS OF PHASE 1 BANK RESTORATION

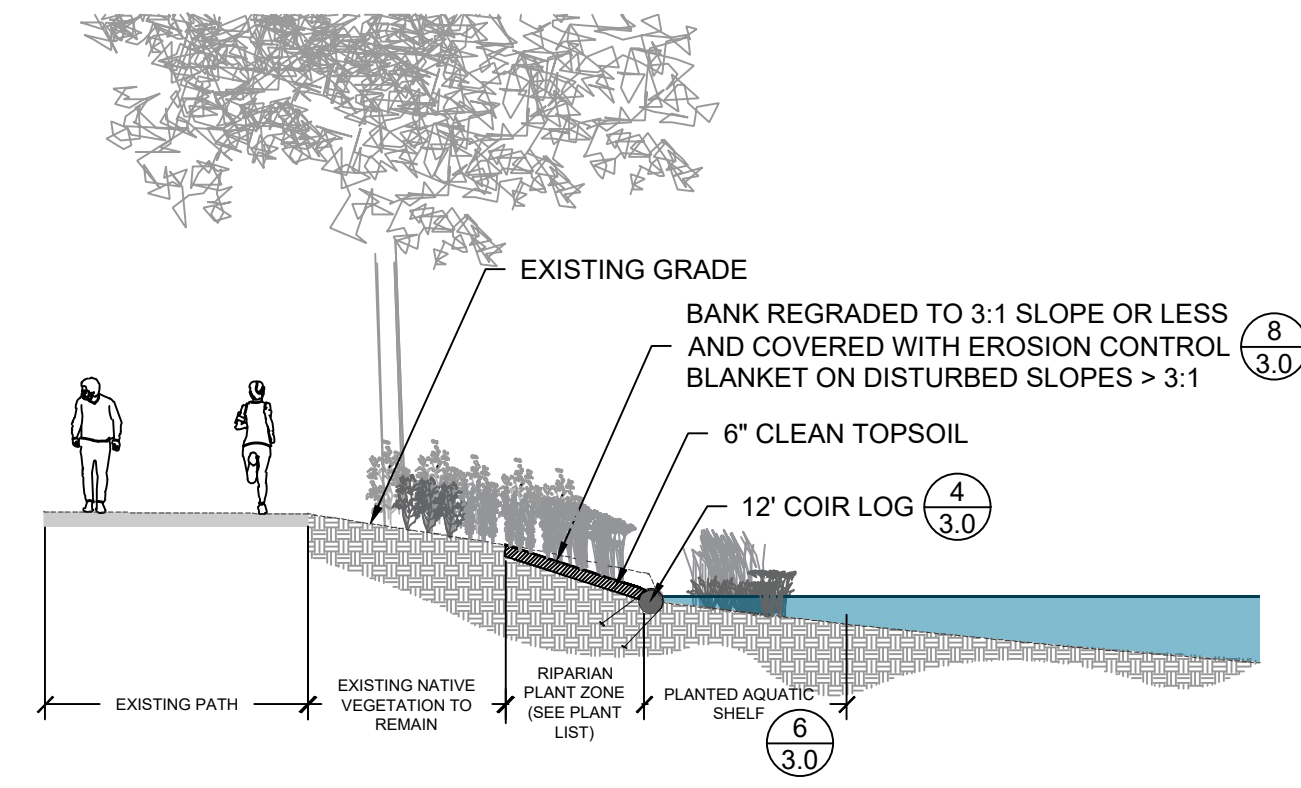
**ARLINGTON
RESERVOIR -
PHASE 2**

ARLINGTON, MASSACHUSETTS

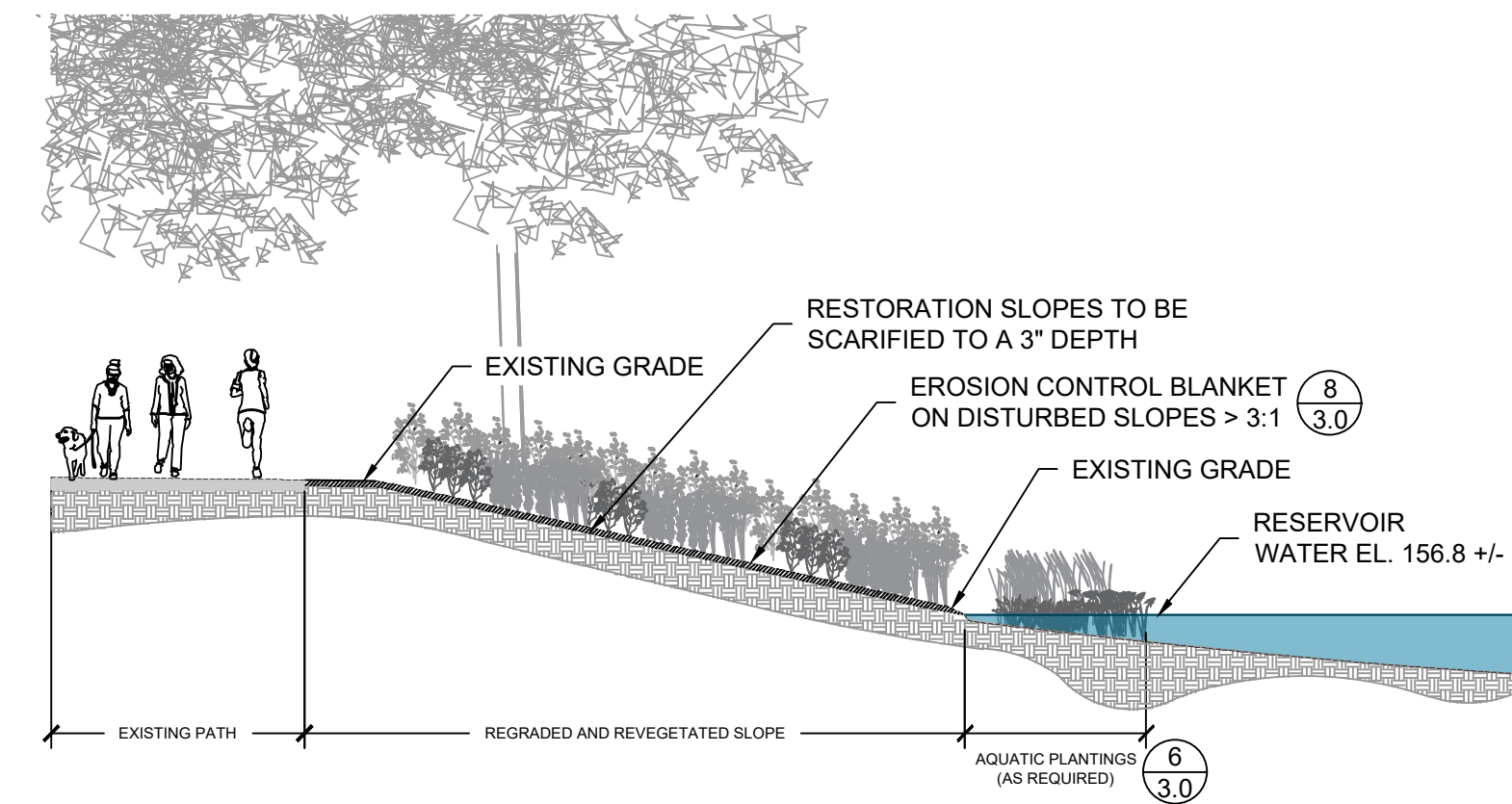
TOWN OF ARLINGTON



1 AREA 'A' BANK RESTORATION: > 12" VERTICAL BANK CUT (TYP.)
Scale: NTS



2 AREA 'B' BANK RESTORATION: < 12" VERTICAL BANK CUT (TYP.)
Scale: NTS



3 AREA 'C' BANK RESTORATION: STABLE SLOPE - REVEGETATION (TYP.)
Scale: NTS

NO.	REVISION	DATE

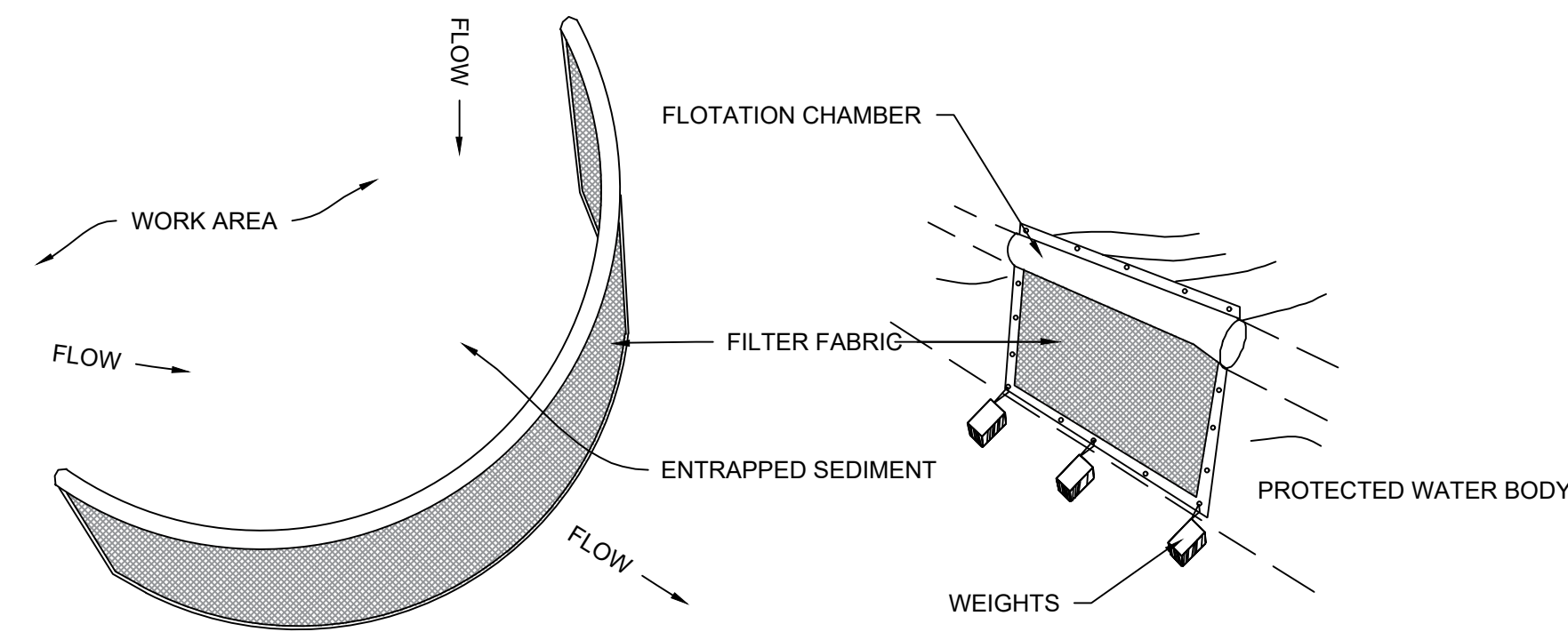
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36 Bromfield Street Suite 202
Boston, MA 02108 617.451.1018 Tel
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DESIGN DEVELOPMENT SET

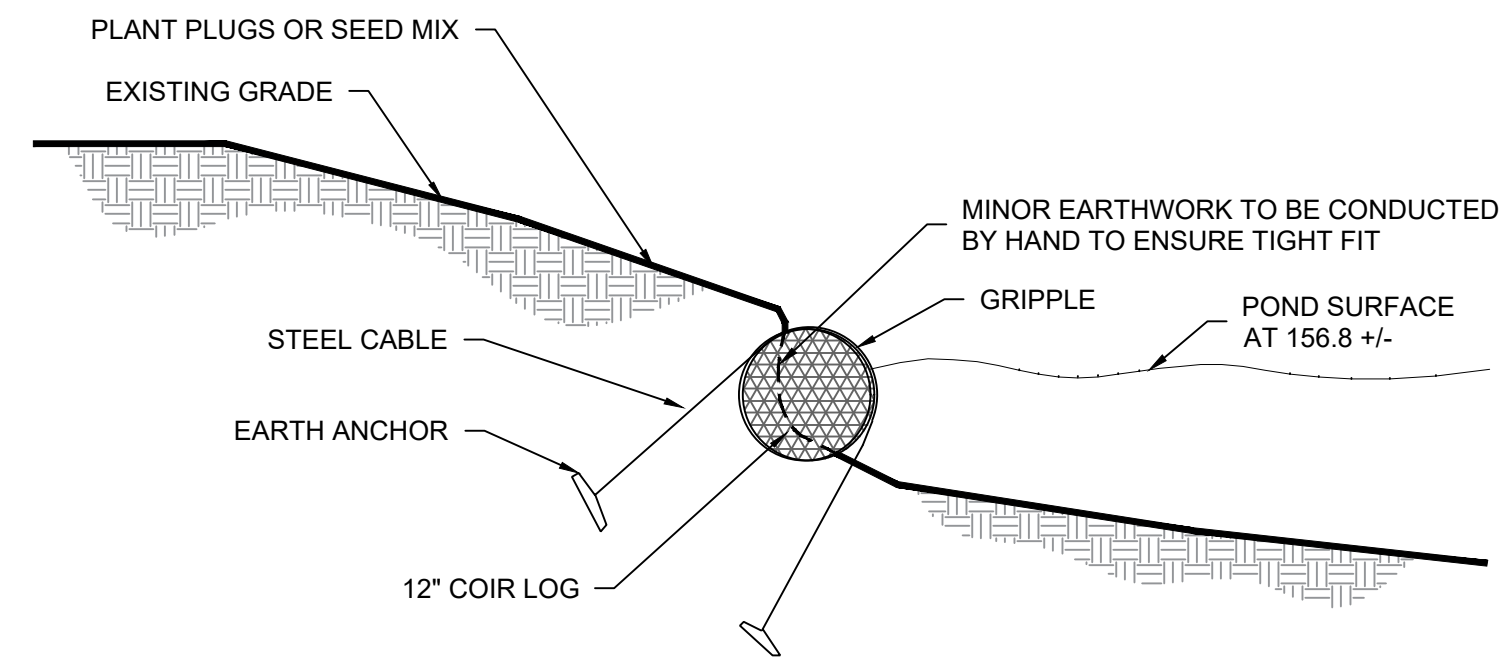
Job Number:
Project: ARLINGTON RES.
Drawn By: TS Checked By: MM
Date: SEPTEMBER 29, 2020
Scale:
Drawing Title:

BANK RESTORATION
SECTIONS

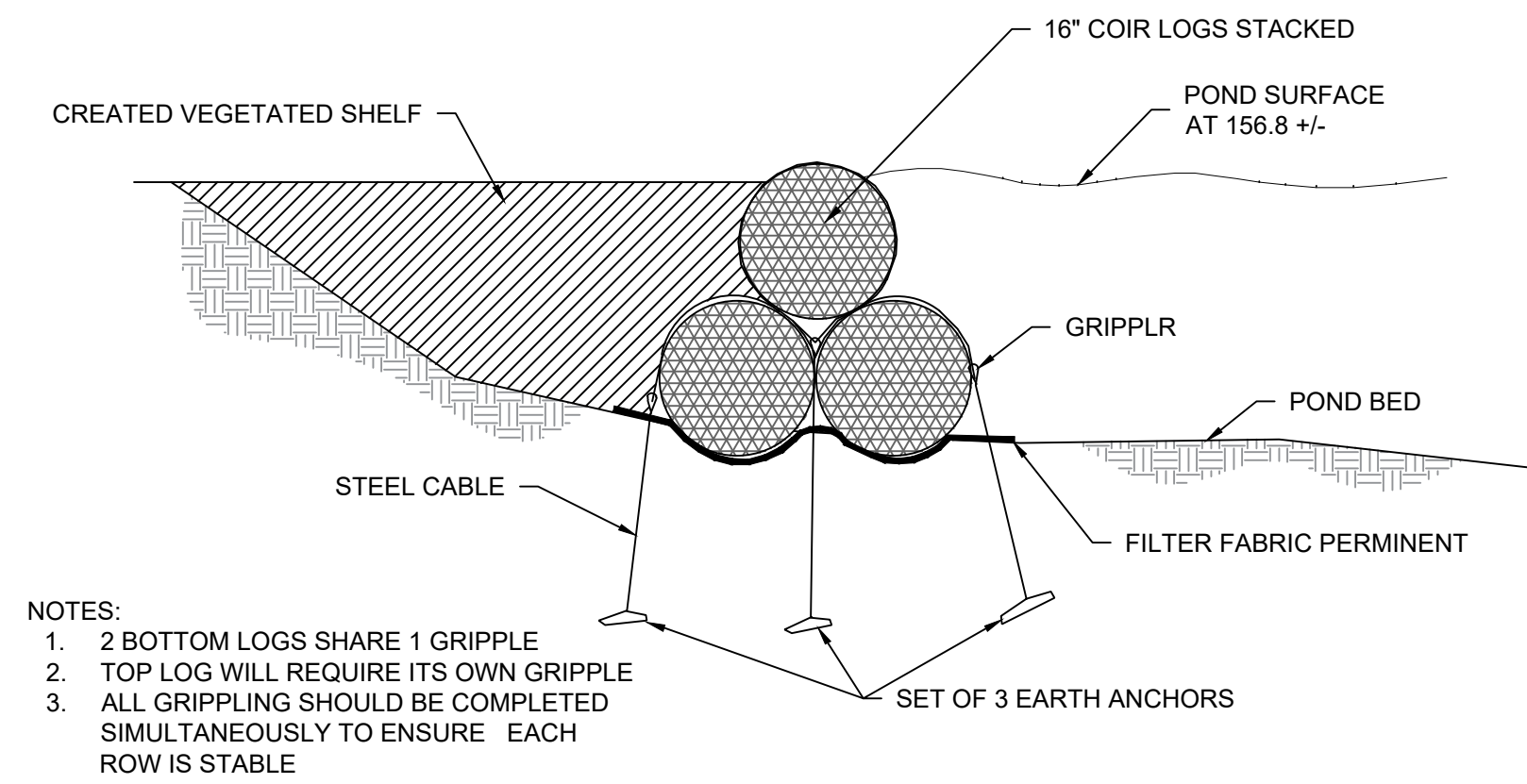


NOTE: TURBIDITY CURTAIN TO BE TEMPORARILY INSTALLED SURROUNDING ANY BANK OR BOAT RAMP WORK WHICH WILL DISTURB SOILS NEXT TO OPEN WATER. ONCE SUSPENDED SEDIMENT HAS CLEARED, THE TURBIDITY CURTAIN MAY BE REMOVED.

1 TURBIDITY CURTAIN DETAIL FOR IN-WATER SEDIMENT CONTROL (TYP.)
Scale: NTS

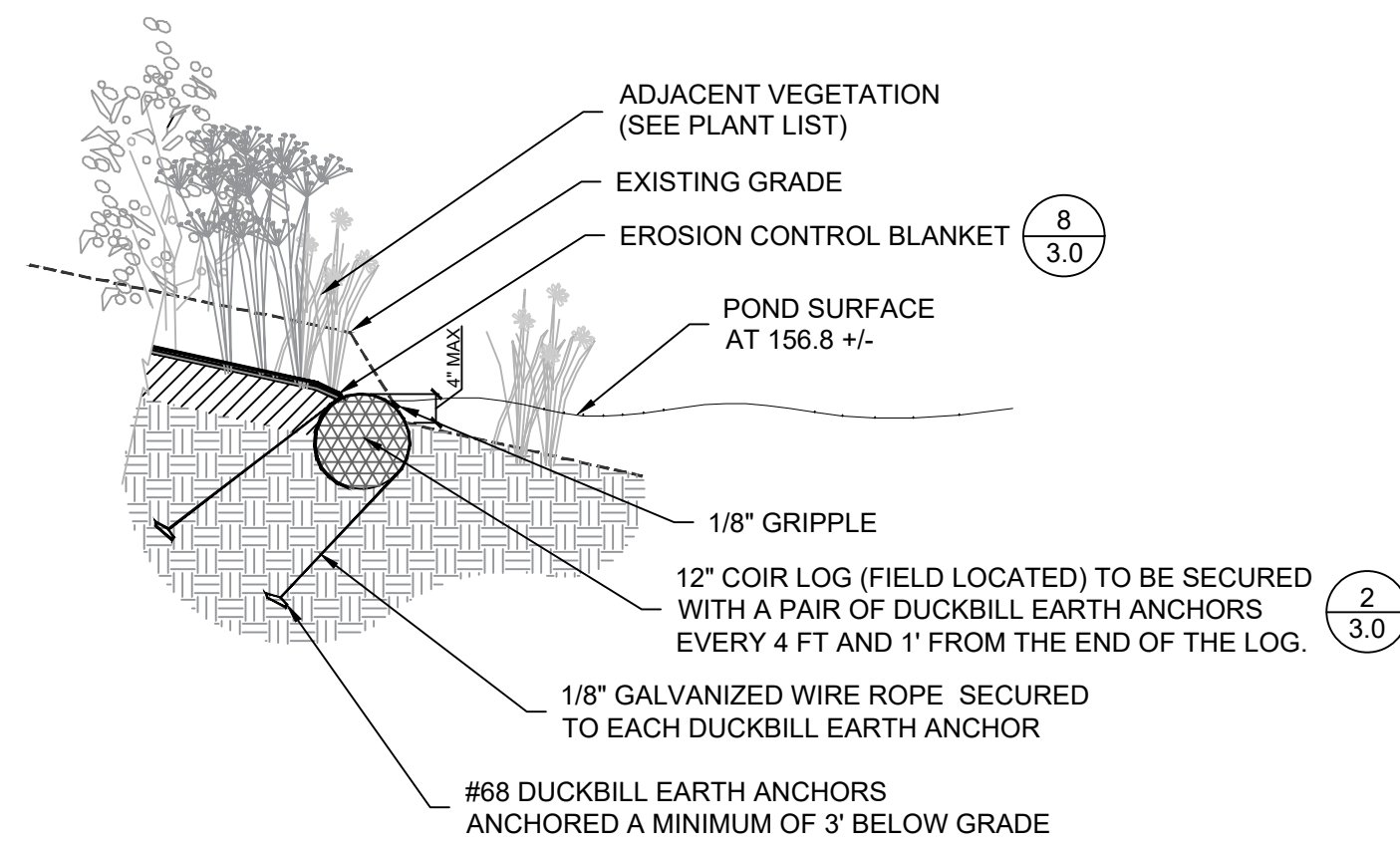


2 COIR FASCINE INSTALLATION (TYP.)
Scale: NTS



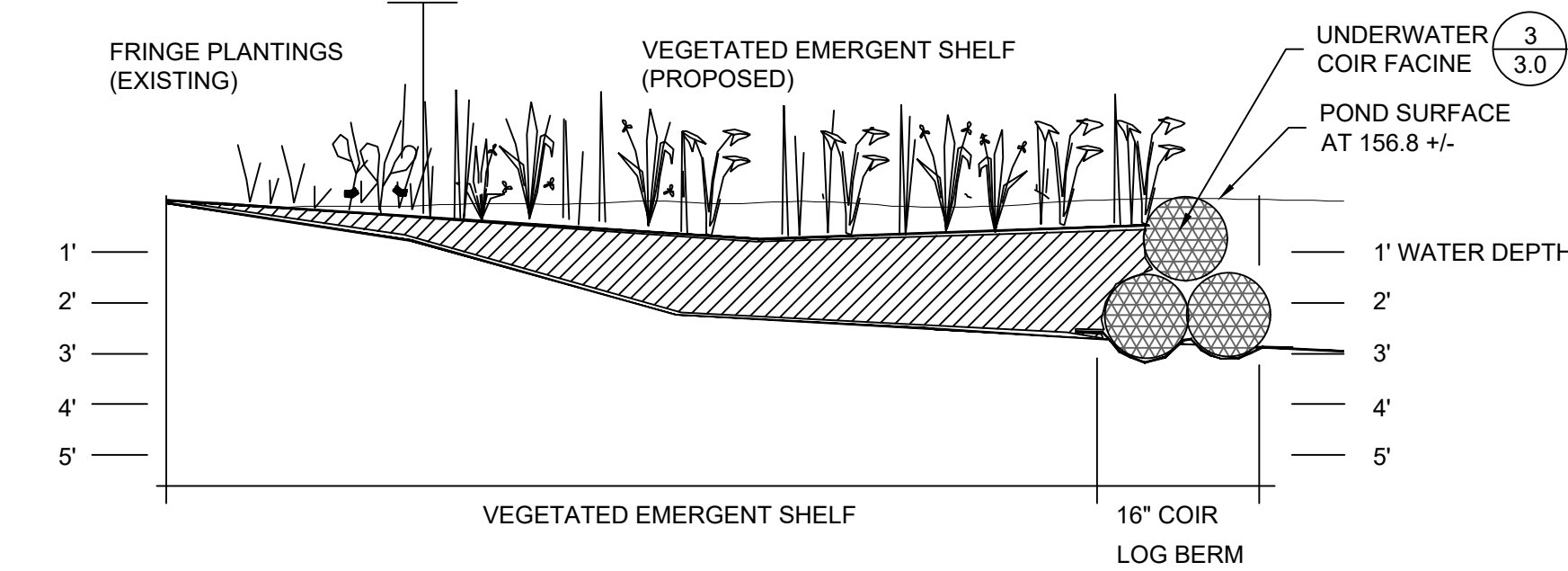
NOTES:
1. 2 BOTTOM LOGS SHARE 1 GRAPPLE
2. TOP LOG WILL REQUIRE ITS OWN GRAPPLE
3. ALL GRIPPLING SHOULD BE COMPLETED SIMULTANEOUSLY TO ENSURE EACH ROW IS STABLE

3 COIR FASCINE INSTALLATION FOR BERM (TYP.)
Scale: NTS

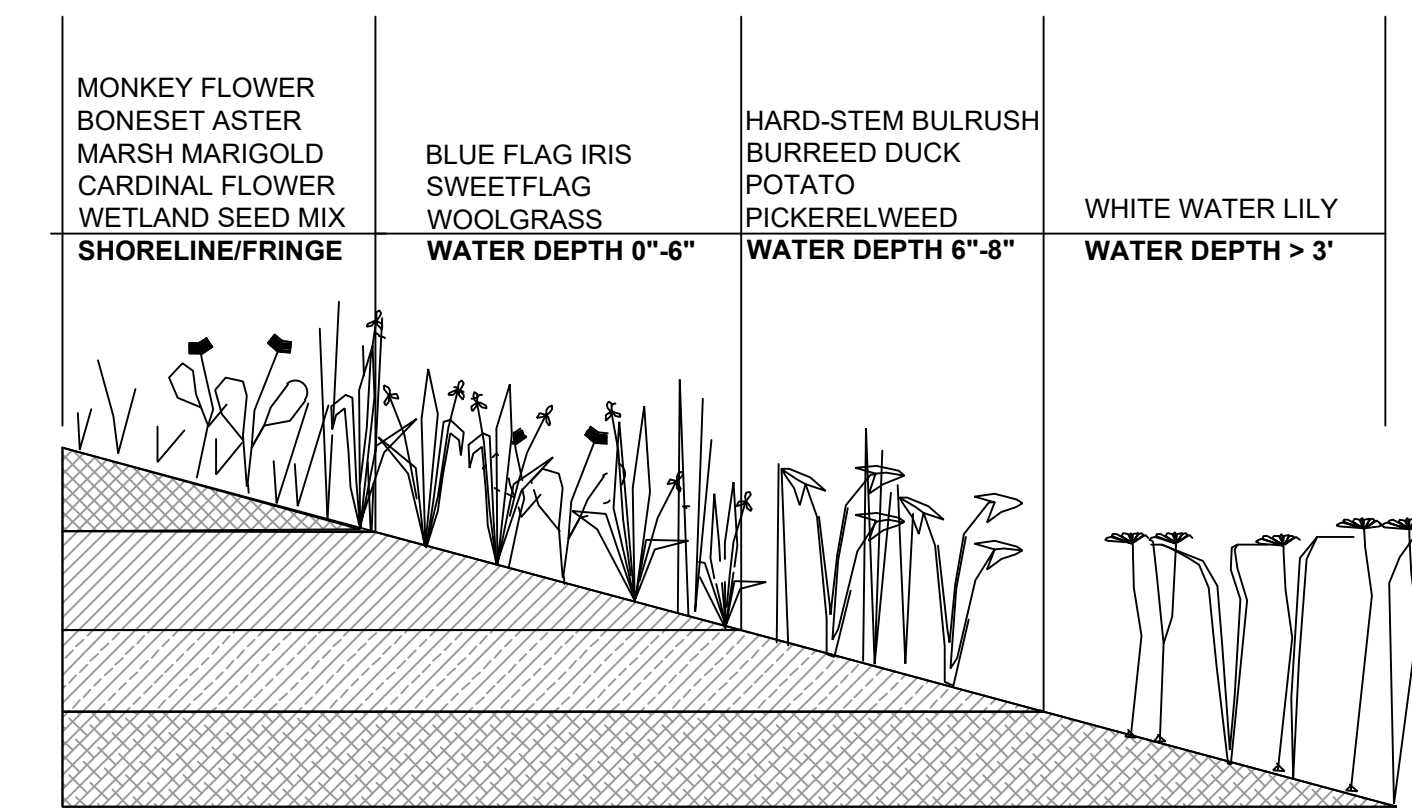


NOTES:
1. LOOP A 1/8\"/>

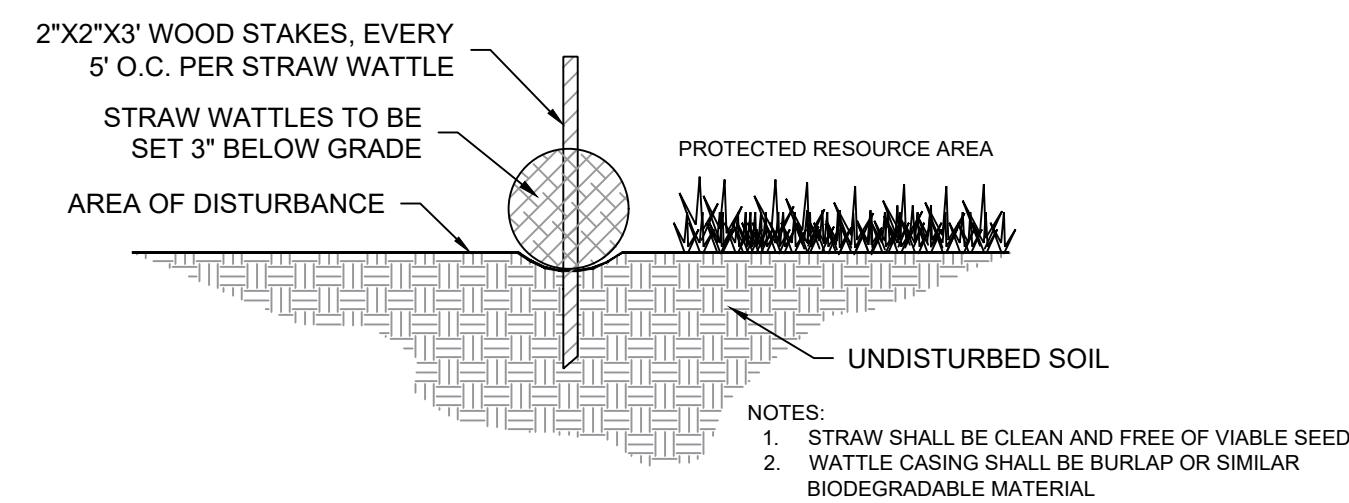
4 COIR LOG INSTALLATION (TYP.)
Scale: NTS



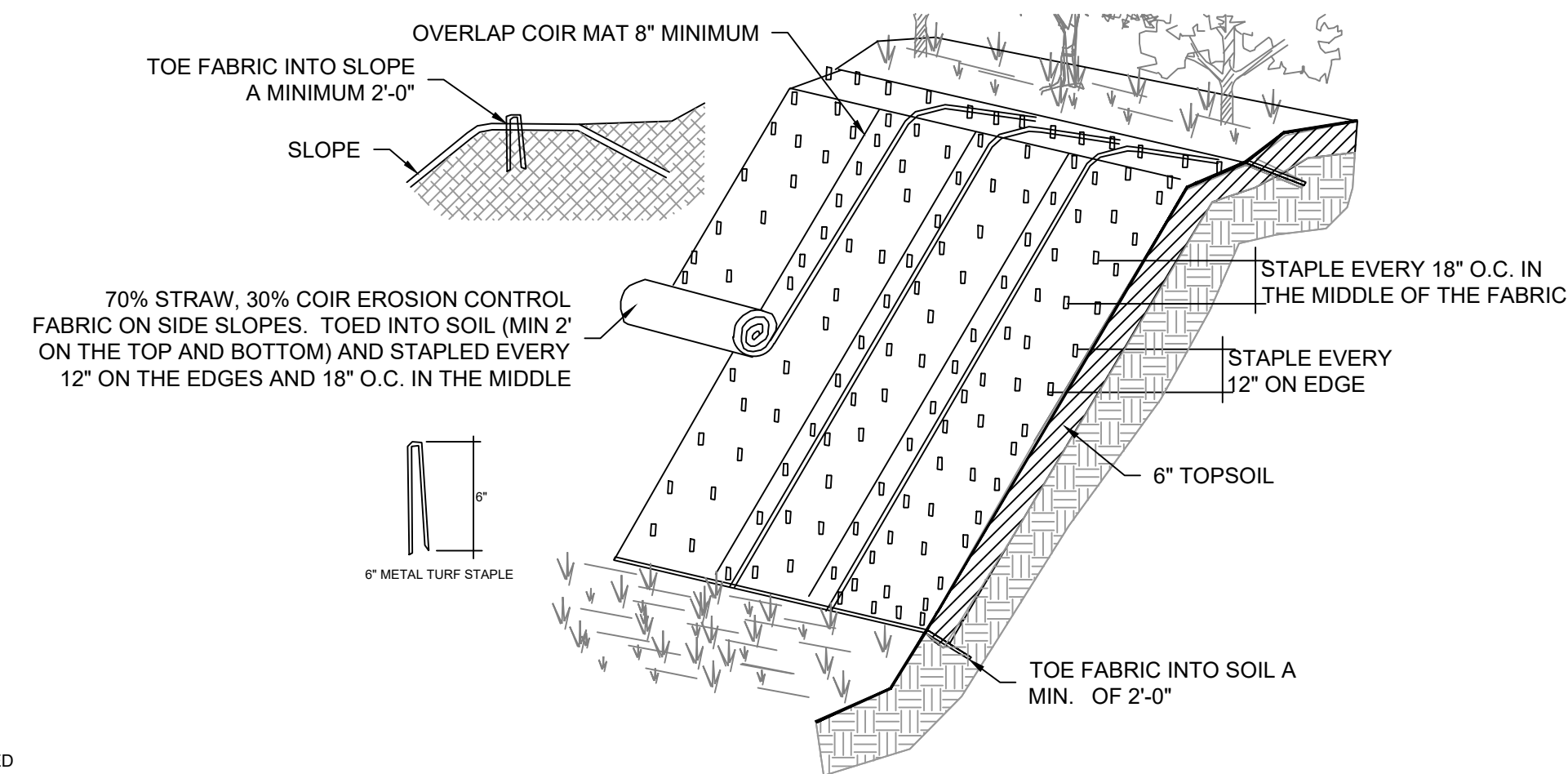
5 EMERGENT SHELF (TYP.)
Scale: NTS



6 EMERGENT SHELF PLANTING ZONES (TYP.)
Scale: NTS



7 STRAW WATTLE EROSION CONTROL
Scale: NTS



8 BIODEGRADABLE EROSION CONTROL FABRIC SLOPE STABILIZATION DETAIL
Scale: NTS

EROSION CONTROL FABRIC NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS TO ENSURE THAT THE EROSION CONTROL FABRIC WILL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING EROSION CONTROL FABRIC.
3. LAY FABRIC LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. STAPLE FABRIC WITH 6\"/>

ARLINGTON
RESERVOIR -
PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



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AMHERST, MA 01002 (P) 413.256.0202
WWW.SWCA.COM

kzla
Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 617.451.1018 Tel
Boston, MA 02108 www.kylezick.com

DESIGN DEVELOPMENT SET

Job Number:
Project: ARLINGTON RES.
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Drawing Title:

BANK RESTORATION
DETAILS

EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING

EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.

TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:

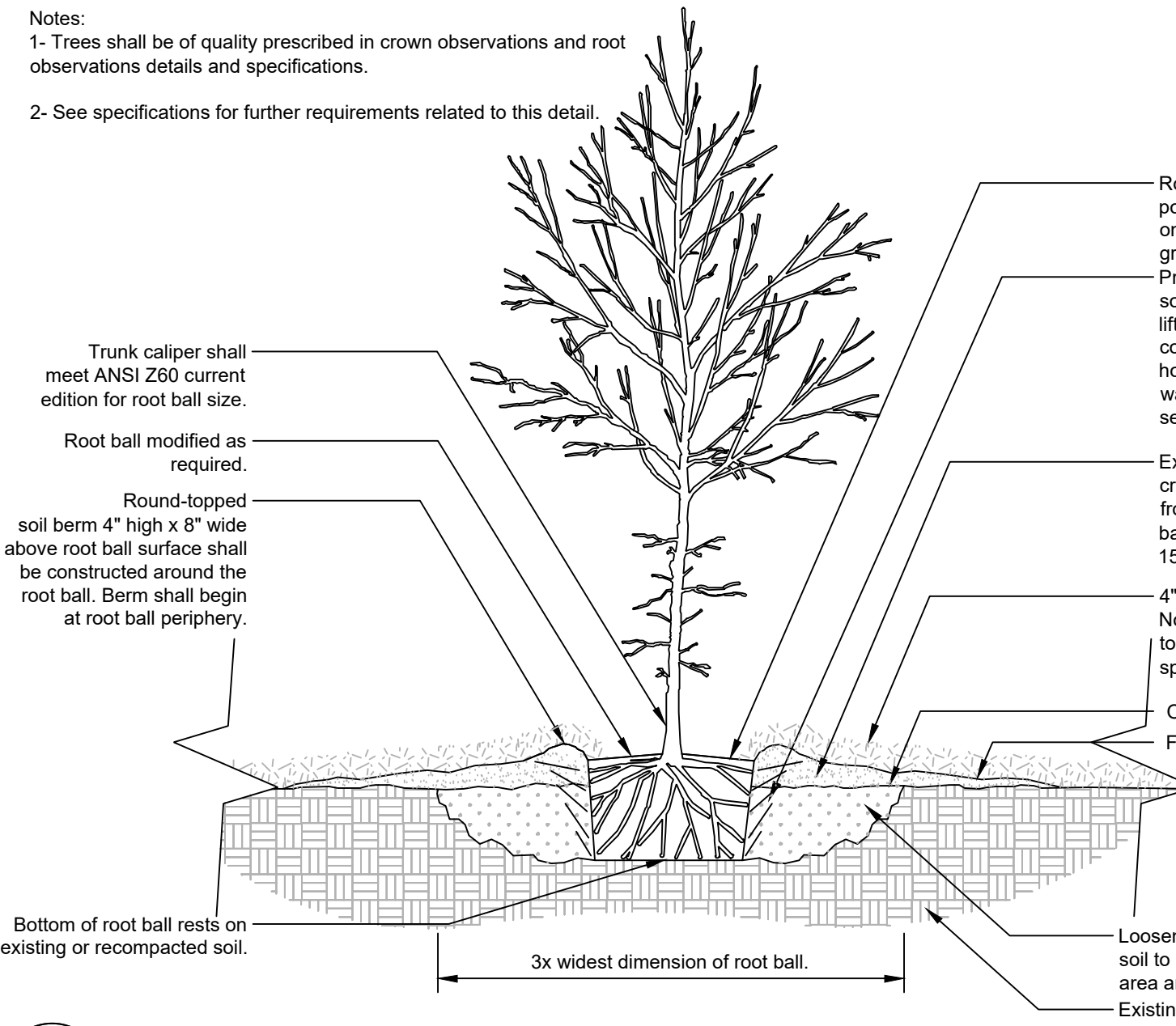
- ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
- THE WETLAND SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES IN IMPACT/RESTORATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
- PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN. PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE WETLAND SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCROACHING INTO WETLANDS AND THE RESERVOIR.
- THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
- THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
- ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEED WITH NEW ENGLAND SEMI-SHADE GRASS AND FORBS SEED MIX UNLESS SPECIFIED OTHERWISE IN THE PLANTING PLAN. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS./ACRE. SEED AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE, AS VERIFIED BY THE WETLAND SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE WETLAND SPECIALIST.
- SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPRISED OF NON-SYNTHETIC MATERIALS (E.G., JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

BANK RESTORATION NOTES

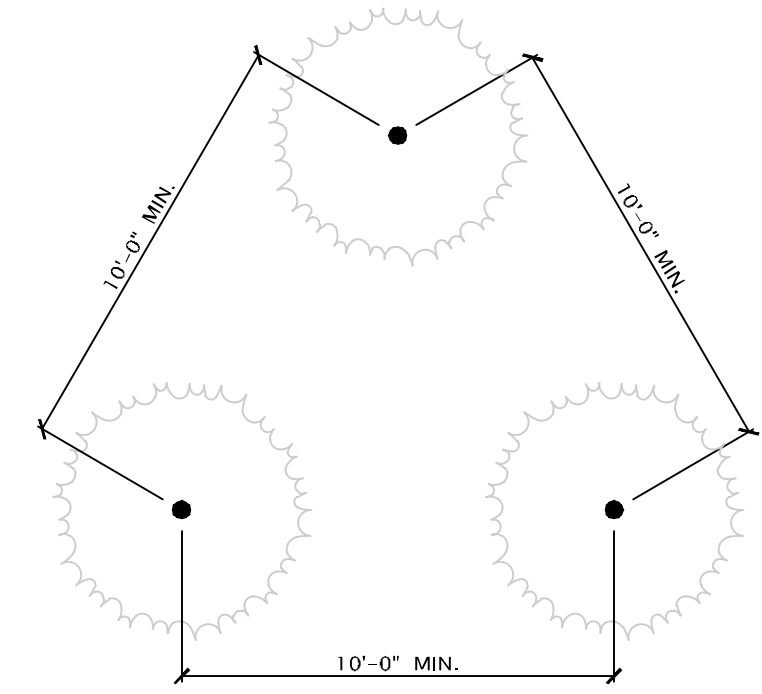
- THE PURPOSE OF THIS RESTORATION PLAN IS TO IMPROVE BANK STABILITY OF ARLINGTON RESERVOIR BY REDUCING AND CONTROLLING SEDIMENTATION, RESTORING ERODED BANKS, AND ERADICATING NUISANCE VEGETATION.
- THIS RESTORATION PLAN INCLUDES THREE ACTION OPTIONS DEPENDING ON THE EXTENT OF EXISTING EROSION CONDITIONS OBSERVED IN THE FIELD. BANK RESTORATION OPTIONS ADDRESS ONE OF THREE CONDITIONS A) VERTICAL BANK EROSION GREATER THAN 12 INCHES IN HEIGHT FROM THE WATER LINE, B) VERTICAL BANK EROSION LESS THAN 12 INCHES IN HEIGHT FROM THE WATER LINE, AND C) STABLE BANK EDGES WITH SLOPES DENuded OF VEGETATION. AREAS INDICATED AS D) WERE OBSERVED TO BE STABLE AND SUFFICIENTLY VEGETATED AND REQUIRE NO ACTION.
- ERODED PORTIONS OF POND EDGES ARE TO BE RESTORED WITH 12" BIODEGRADABLE COIR LOGS. COIR LOGS WILL BE INSTALLED BY HAND AND ASSOCIATED MINOR EARTHWORK WILL ALSO BE COMPLETED BY HAND OR WITH LIGHT MACHINERY. AREA OF RESERVOIR EDGES IMMEDIATELY UPGRADED OF COIR LOGS TO BE REVEGETATED AS NEEDED.
- INVASIVE RIPARIAN AND AQUATIC WEEDS AND NUISANCE VEGETATION ARE TO BE REMOVED. REMOVAL TO BE CONDUCTED BY "HYDRO-RAKE" AND CHEMICAL TREATMENTS.
- A FRIABLE "PLANTING BED" CONSISTENCY SHALL BE PREPARED. ANY COMPACTION CAUSED BY EXCAVATION SHALL BE ALLEVIATED.
- THE RESTORATION AREAS ARE TO BE PLANTED WITH NATIVE WOODY SPECIES, THEN SEED WITH NATIVE SEED. (SEE PLANT LIST). PLANT SUBSTITUTIONS DUE TO COMMERCIAL AVAILABILITY OR HYDROLOGIC CONDITIONS MUST BE APPROVED BY THE WETLAND SPECIALIST.
- THE EROSION CONTROL BARRIER BETWEEN THE RESERVOIR AND RESTORATION AREAS SHALL BE REMOVED UPON STABILIZATION OF THE RESTORATION AREAS AND THE AREA BAKED TO ELIMINATE ANY BERM THAT MAY BE PRESENT BETWEEN THE RESOURCE RESTORATION AREAS AND THE ADJACENT BVW OR RESERVOIR. ANY BARE SOIL THAT RESULTS FROM THE REMOVAL OF THE EROSION CONTROLS SHALL BE SEED WITH THE SPECIFIED SEED MIX. ALL STAKES AND TWINE SHALL BE REMOVED.

SEEDING GUIDANCE

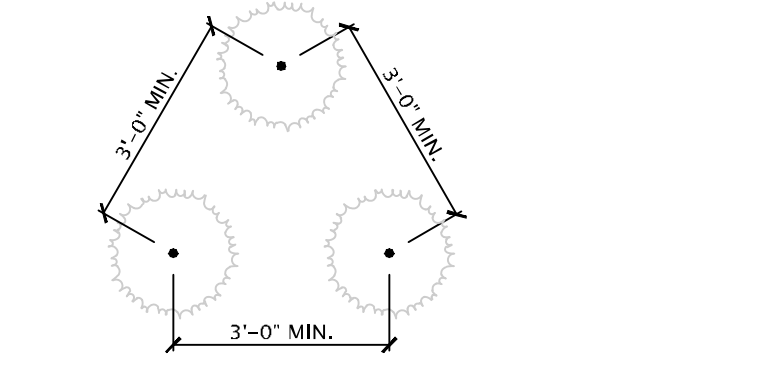
- SEED METHODOLOGY: THE FOLLOWING METHODOLOGY PROVIDES SEQUENCING FOR ESTABLISHING THE SEED MIXES PRESCRIBED ON IN THE PLANS. THIS PROCESS SHOULD BEGIN FOLLOWING FINAL GRADING. THIS METHODOLOGY DOES NOT SPECIFY A TEMPORARY COVER CROP. A COVER CROP MAY BE NEEDED TO STABILIZE THE SITE DEPENDING ON WEATHER CONDITIONS AND CONSTRUCTION TIMING RELATIVE TO THE SEASONS AND THE IDEAL TIME FRAME FOR ESTABLISHING THE SEED MIXES. THE BEST TIME TO SEED FOR THIS PROJECT IS IN THE SPRING WHEN THE SOILS ARE AT A NORMAL MOISTURE CONTENT LEVEL (MOIST, NOT SATURATED) AND NO LATER THAN JUNE 30. WEATHER FORECASTS SHOULD BE MONITORED AS OCCASIONAL WATERING MAY BE NECESSARY IF A DRY SPRING SEASON OCCURS. THE SEEDING SEQUENCE SHOULD BEGIN NO LONGER THAN 48 HOURS AFTER FINAL GRADING. SITE STABILIZATION TECHNIQUES SHOULD BE UTILIZED IN THIS 48-HOUR TIME PERIOD.
- SOIL SCARIFICATION/ SEED BED PREPARATION: SEED BED PREPARATION IS THE PROCESS OF SCARIFYING AND LOOSENING THE SOIL SURFACE TO CREATE A LOOSE, FRIABLE, SOIL SURFACE. THE SOIL SURFACE SHOULD BE A UNIFORM PLANAR SURFACE THAT IS FLAT AND WITHOUT EXCESSIVE RIDGES, FURROWS, RUTS OR MOUNDS AND LOW SPOTS WHERE WATER CAN COLLECT. SOIL SCARIFICATION SHOULD ONLY OCCUR WHEN WEATHER, SOIL CONDITIONS, AND CONSTRUCTION PHASING ALLOWS FOR NO LONGER THAN 48 HOURS BETWEEN SCARIFICATION (THE BEGINNING OF THE SEEDING PROCESS) AND COVERING THE SEED WITH WEED FREE STRAW MULCH (NOT HAY), OR EROSION CONTROL BLANKET. THE SOIL SHOULD BE SCARIFIED TO MAXIMUM DEPTH OF 3 INCHES (SEE BELOW). DURING THIS PROCESS, AREAS WHERE COARSE GRAVEL DOMINATES THE SOIL SURFACE SHOULD BE IDENTIFIED AND AMENDED WITH FINE SANDY SOIL COMMON BORROW GENERATED FROM ON-SITE EARTHWORK. THE IMPORTATION OF TOPSOIL SHOULD BE A LAST RESORT AND ONLY USED AS AN AMENDMENT FOR "LOCALIZED" SPOTS THAT LACK THE CHARACTERISTICS OF A SOIL SEED BED.
- SEED APPLICATION: A WELL-PREPARED SEED BED PROVIDES A LOOSE FRIABLE SOIL SURFACE FOR WHICH THE SEED CAN BE SOWN INTO. SEED APPLICATION IS A TWO-PART PROCESS: 1) SEED APPLICATION AT PROPER RATES PER ACRE AND 2) SOW THE SEED INTO THE SOIL ¼ TO ½" DEPTH MAXIMUM. APPROPRIATE SEED RATES FOR EACH PRESCRIBED SEED MIX ARE SPECIFIED ON THE ACCOMPANYING DETAILS SHEET.
 - SEEDING BY HAND: CHECK THE SEED LABEL PRIOR TO OPENING THE BULK BAG TO CONFIRM THE CORRECT SEED IS BEING APPLIED TO THE SPECIFIED LOCATION. THE BULK BAGS OF SEED SHOULD BE AGITATED BY HAND ON SITE TO REDISTRIBUTE THE SEEDS IN THE MATRIX BEFORE SPREADING. IN BARE AREAS A WEED FREE STRAW MULCH MAY BE USED TO COVER THE SOIL SURFACE FOLLOWING THE SEED APPLICATION.
 - SOWING THE SEED: ONCE THE SEED IS SPREAD THE SEED MUST BE SOWN INTO THE SOIL TO THE DEPTH ABOVE TO INCREASE CHANCES OF GERMINATION BY KEEPING SOIL MOISTURE CLOSE TO THE SEED. THE SEED CAN BE SOWN BY A NUMBER OF WAYS INCLUDING "TRACKED" IN WITH A LOW PSI RUBBER TIRE OR TRACKED MACHINE, USING A YORK LANDSCAPE RAKE OR SIMILAR, OR THE TRADITIONAL MEANS OF USING A METAL LEAF RAKE.
- RESEEDING: AREAS TO BE RESEED SHALL FOLLOW THE SAME SEEDING SEQUENCE OUTLINED ABOVE. IT IS EXPECTED THAT SOME SEEDING AREAS MAY NOT GERMINATE, BUT THAT OVER TIME THE PLANTED AREAS SHALL FILL IN THROUGH SEED PROLIFERATION AND GROWTH HABITS. AREAS LARGE ENOUGH TO BE IDENTIFIED THROUGH MONITORING AS BEING DOMINATED BY WEEDS OR OTHER INVASIVE SPECIES THAT HAVE OUTCOMPETED THE SPECIFIED SEED MIX OR AREAS DEEMED UNSTABLE DUE TO LOW PLANT GROWTH SHALL BE RESEED ACCORDINGLY.
- PLANT SUCCESSION NOTES: IT IS POSSIBLE THAT OVER TIME SOME SEEDING AREAS MIGHT BECOME DOMINATED BY NATIVE PLANT SPECIES EXISTING IN THE SOIL SEED BANK. ONE EXAMPLE OF THIS IS THE LIKELIHOOD THAT VARIOUS TYPES OF NATIVE FERNS COULD EMERGE IN SHADED AREAS. NO SPECIES OF FERNS ARE IN THE PRESCRIBED SEED MIX BUT ARE HIGHLY DESIRABLE SPECIES THAT CAN EXIST AND THRIVE IN THE IDENTIFIED PLANTING AREAS ADDING TO LANDSCAPE DIVERSITY. NATIVE SPECIES SUCH AS FERNS THAT EMERGE DUE TO BEING IN THE SOIL SEED BANK SHOULD REMAIN. THOROUGH AND REGULAR MONITORING DURING THE MATURATION OF THE ESTABLISHMENT AREAS IS A KEY COMPONENT TO BALANCING AREAS TO BE RESEED AND AREAS WHERE SUCCESSFUL PLANT GROWTH OF NATIVES SHOULD BE ALLOWED TO THRIVE.



1 TREE PLANTING DETAIL
Scale: NTS



3 TREE SPACING (TYP.)
Scale: NTS

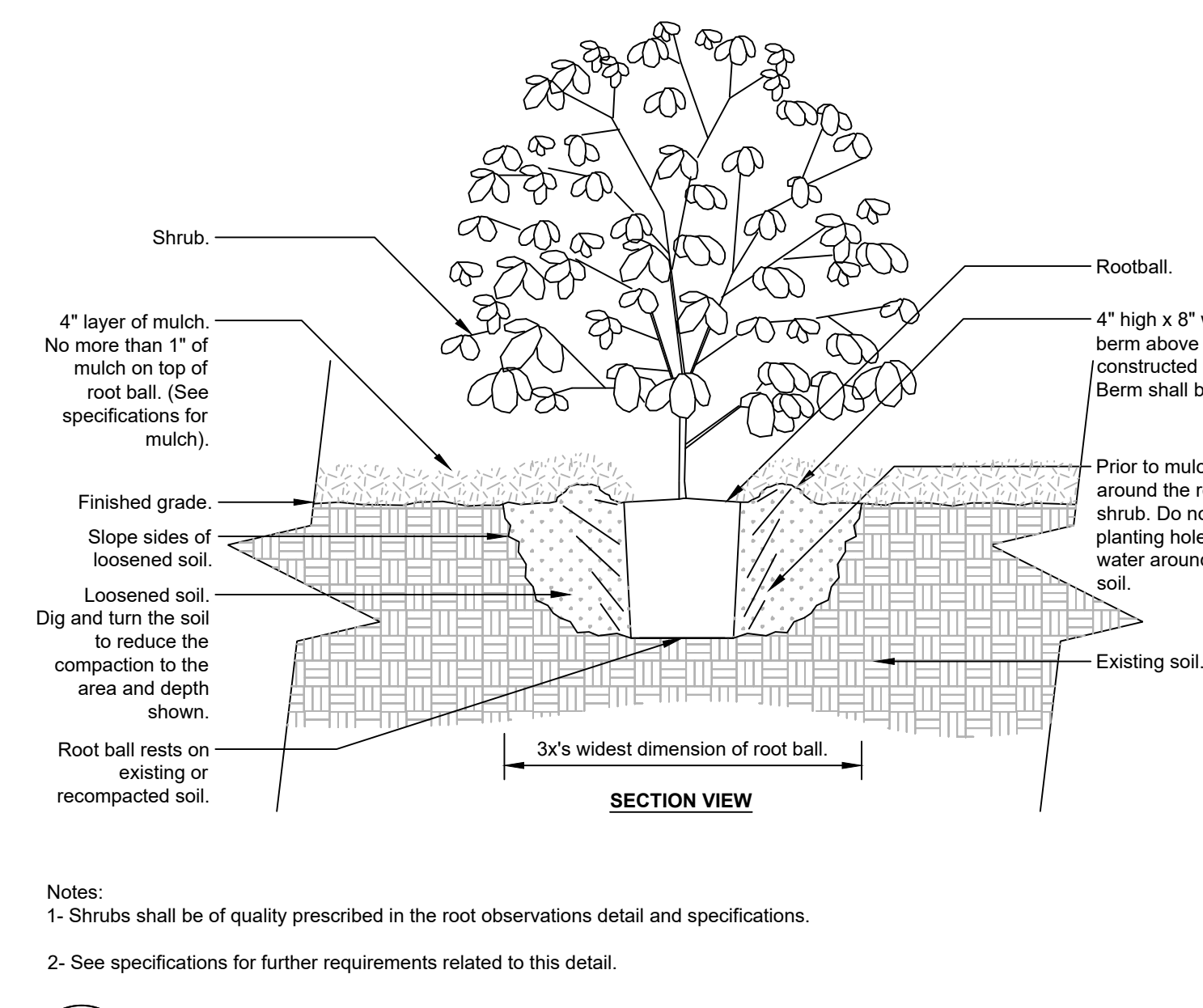


4 SCRUB SPACING (TYP.)
Scale: NTS

New England Semi-Shade Grass and Forbs Mix		
Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Liatris spicata</i>	Spiked Gayfeather/Marsh Blazing Star	FAC+
<i>Onoclea sensibilis</i>	Sensitive Fern	FACW
<i>Aster prenanthoides (Symphyotrichum prenanthoides)</i>	Zigzag Aster	FAC
<i>Eupatorium fistulosum (Eutrochium fistulosum)</i>	Hollow-Stem Joe Pye Weed	FACW
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Juncus tenuis</i>	Path Rush	FAC

Apply: 30 lbs/acre

5 NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX
Scale: NTS Source: Seed mixes referenced herein are provided by New England Wetland Plants, Inc.



2 SHRUB PLANTING DETAIL
Scale: NTS

PLANT RESTORATION SCHEDULE

Cover Type	Abbrev.	Scientific Name	Common Name	Plant Size @ Installation	Area 'A'	Area 'B'	Area 'C'	Area 'D'
Total Enhancement Area (lf)					2,120	1,650	130	680
Total Enhancement Area Approx. (sf)					31,800	24,750	1,950	10,200
Trees								
	Ar	<i>Acer rubrum</i>	Red Maple	4'-6" ht. min.	--	9	3	--
	Ba	<i>Betula alleghaniensis</i>	Yellow Birch	4'-6" ht. min.	--	9	--	--
	Bp	<i>Betula populifolia</i>	Grey Birch	4'-6" ht. min.	--	9	--	--
	Ns	<i>Nyssa sylvatica</i>	Black Gum	4'-6" ht. min.	--	9	3	--
	Pd	<i>Populus deltoides</i>	Cottonwood	4'-6" ht. min.	--	9	--	--
	Qr	<i>Quercus rubra</i>	Red Oak	4'-6" ht. min.	--	9	3	--
	Sd	<i>Salix discolor</i>	Pussywillow	4'-6" ht. min.	--	9	3	--
	Sn	<i>Salix nigra</i>	Black Willow	4'-6" ht. min.	--	9	3	--
Shrubs								
	Ca	<i>Clethra alnifolia</i>	Sweet Pepperbush	3'-4" ht. min.	50	27	6	--
	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	3'-4" ht. min.	50	27	6	--
	Iv	<i>Ilex verticillata</i>	Winterberry	3'-4" ht. min.	50	27	6	--
	Vd	<i>Viburnum dentatum</i>	Northern Arrowwood	3'-4" ht. min.	50	27	6	--
Herbaceous								
- Shoreline/Fringe	Cp	<i>Caltha palustris</i>	Marsh Marigold	2" plug	2,100	1,800	150	--
	Ep	<i>Eupatorium perfoliatum</i>	Boneset Aster	2" plug	2,100	1,800	150	--
	Mr	<i>Mimulus ringens</i>	Monkey Flower	2" plug	2,100	1,800	150	--
- Water Depth 0'-6"	Am	<i>Acorus americana</i>	Sweetflag	2" plug	2,100	1,800	150	--
	Lc	<i>Lobelia cardinalis</i>	Cardinal Flower	2" plug	2,100	1,800	150	--
	Iv	<i>Iris versicolor</i>	Blue Flag Iris	2" plug	2,100	1,800	150	--
- Water Depth 6'-8"	Pc	<i>Pontederia cordata</i>	Pickerselweed	2" plug	1,350	1,050	450	--
	Sa	<i>Schoenoplectus acutus</i>	Hard-stem Bulrush	2" plug	1,350	1,050	450	--
	Sc	<i>Scirpus cyperinus</i>	Woolgrass	2" plug	1,350	1,050	450	--
	Sl	<i>Sagittaria latifolia</i>	Duck Potato	2" plug	1,350	1,050	450	--
	Sm	<i>Sparganium americanum</i>	Burreed	2" plug	1,350	1,050	450	--
- Water Depth > 3'	No	<i>Nymphaea odorata</i>	White Water Lily	tuber		5,220	5,850	--
Seed Mix								
	New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites (Lbs)			18lbs/acre	13.0	11.0	1.0	--

Trees shall be installed not less than 10 feet on center and no farther than 12 feet on center.
Shrubs shall be planted in clusters of 2 or 3, and shall be installed not less than 3 feet on center.
Areas within planting areas not 100% vegetated with existing herbaceous plants will be seeded with the appropriate seed mix at the manufacturers specified rate to cover the bare area.
A wetland scientist or landscape architect shall provide supervision of the plant layout.
Plant substitutions may be necessary due to commercial availability. Substitutions shall be approved by the supervising wetland scientist or landscape architect.
Invasive species control semi-annually for the first two-years
Area A woody material assumes 50% slope coverage of upland areas based on the USDA New England Forest prescribed rate of 240 trees per acre and 75% shrub cover at the prescribed spacing above
Area B woody material assumes 50% slope coverage of upland areas based on the USDA New England Forest prescribed rate of 240 trees per acre and 75% shrub cover at the prescribed spacing above
Area C woody material assumes 25% slope coverage of upland areas based on the USDA New England Forest prescribed rate of 240 trees per acre and 75% shrub cover at the prescribed spacing above
Fringe and aquatic vegetation assumes an average of 3 square feet of planting area per linear foot at 12-inch on center spacing for each community

6 PLANT SCHEDULE
Scale: NTS

ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



NO.	REVISION	DATE

SWCA
ENVIRONMENTAL CONSULTANTS
SWCA ENVIRONMENTAL CONSULTANTS
15 RESEARCH DRIVE
AMHERST, MA 01002 (P) 413.256.0202
WWW.SWCA.COM

kzla
Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202
Boston, MA 02108 www.kylezick.com

DESIGN DEVELOPMENT SET

Job Number:
 Project: ARLINGTON RES.
 Drawn By: TS Checked By: MM
 Date: SEPTEMBER 29, 2020
 Scale:
 Drawing Title:

BANK RESTORATION DETAILS AND NOTES