

# SPY POND EDGE & EROSION CONTROL PROJECT

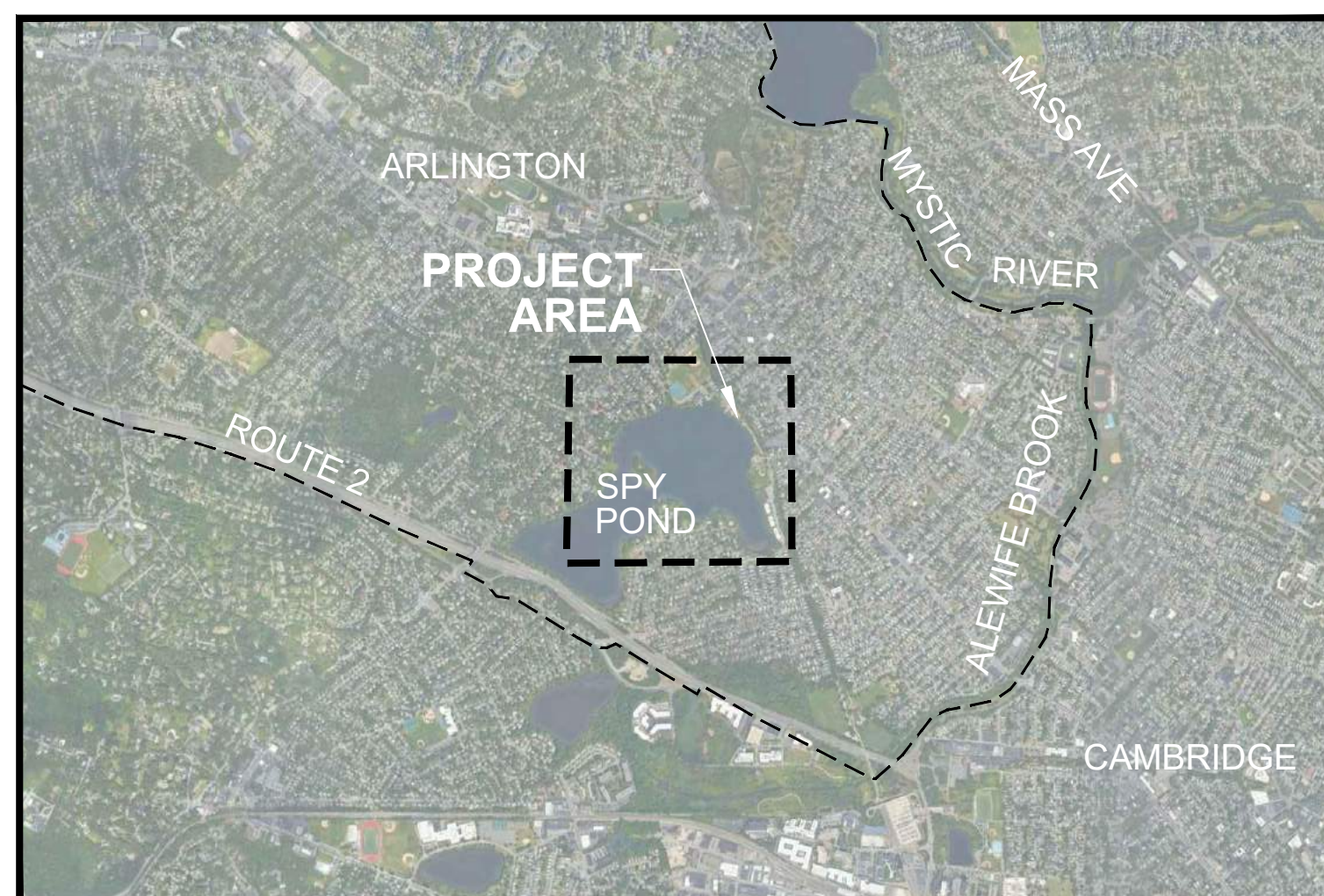
## BID DOCUMENT SET

JANUARY 4, 2019

### PROJECT LOCATION PLAN



### SITE LOCUS PLAN - ARLINGTON



SCALE: NTS

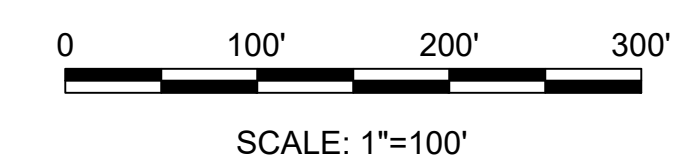
### PROJECT DESCRIPTION

THE ARLINGTON PARK AND RECREATION COMMISSION AND ITS PARTNERS WISH TO MITIGATE EROSION AND PRESERVE PORTIONS OF PUBLIC SHORELINE AT SPY POND IN A MANNER THAT IMPROVES ECOLOGICAL STRUCTURE AND FUNCTION WHILE MEETING THE FOLLOWING GOALS:

- PRESERVE, STABILIZE AND STRENGTHEN APPROXIMATELY 1,530 LF OF SHORELINE TO SUSTAIN AND ENHANCE THE POND'S ECOLOGICAL HEALTH
- IDENTIFY AND CONTROL SOURCES OF EROSION ALONG THE BANKS OF THE POND
- PROTECT AND ENHANCE WILDLIFE HABITAT BY PROTECTING THE POND'S NATURAL EDGES WITH BIOENGINEERING TECHNIQUES
- CONTROL ACCESS TO THE VEGETATED BUFFER AREAS TO PREVENT UNAUTHORIZED PATHS ALONG THE SHORELINE
- INCREASE RECREATIONAL QUALITY AND OPPORTUNITY FOR WATER USE ALONG THE POND SHORELINE
- INCREASE STORMWATER INFILTRATION ALONG THE SHORELINE

### DRAWING INDEX

SHEET NO.	SHEET TITLE
-	COVER SHEET
EC-1 & EC-2	EXISTING CONDITIONS & RESOURCE AREA PLANS
SP-1 & SP-2	SITE PREPARATION PLANS
L-1 & L-2	SITE PLANS
L-3	TIMBER OVERLOOK ENLARGEMENT PLAN & SECTIONS
L-4 TO L-9	SITE DETAILS



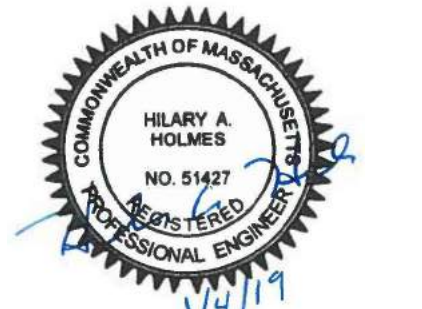
**HATCH**

27 Congress Street, Salem, MA 01970  
tel. 978-740-0096 www.hatch.com

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



**SPY POND**  
EDGE & EROSION CONTROL PROJECT  
ARLINGTON, MA  
BID DOCUMENTS

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A. Keel

Designed By:

H. Holmes, G. Johnson

Reviewed By:

D. Bitisko

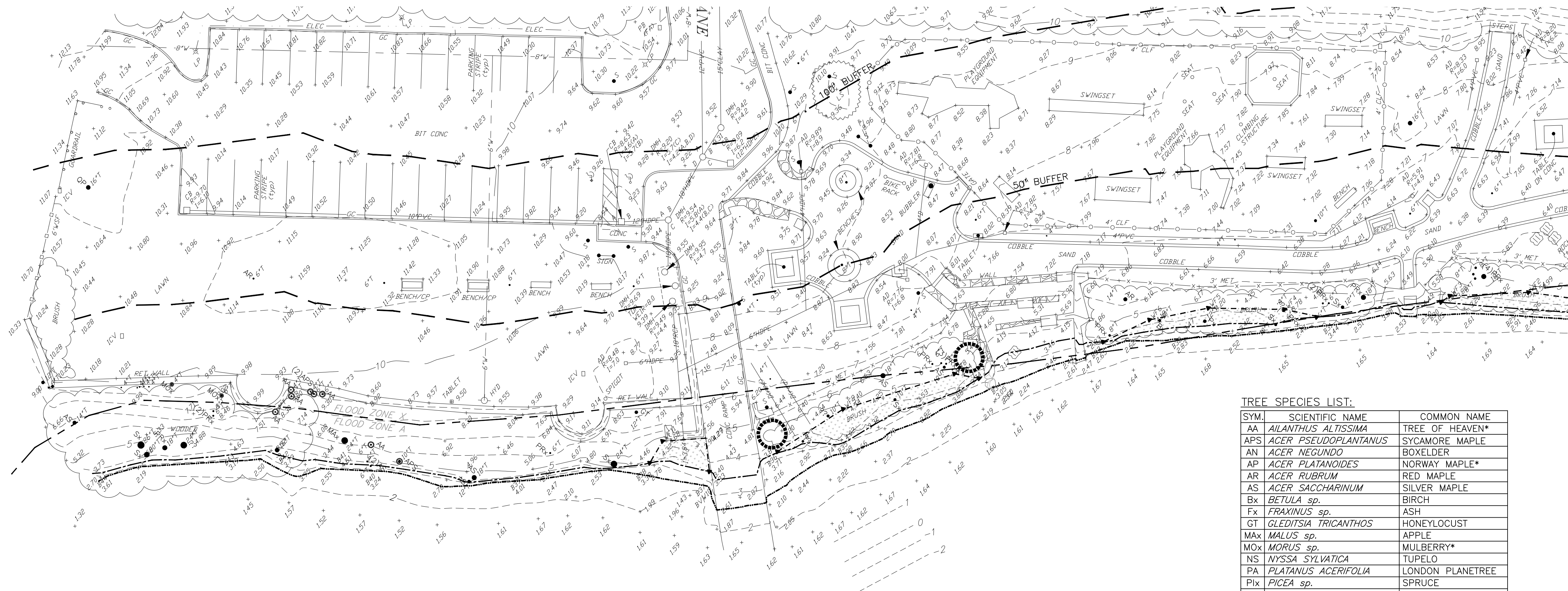
Revisions

Number: Description: Date:

Sheet Title:

COVER SHEET

Sheet No:

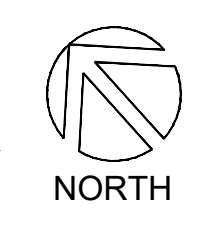


- LEGEND:**
- AD AREA DRAIN
  - BIT BITUMINOUS CONCRETE
  - BOT BOTTOM
  - BR BIKE RACK
  - CB CATCH BASIN
  - CLF CHAIN LINK FENCE
  - CONC CONCRETE
  - DMH DRAIN MANHOLE
  - FA FIRE ALARM
  - GC GRANITE CURB
  - GW GUY WIRE
  - HW HEADWALL
  - HYD HYDRANT
  - I= INVERT
  - ICV IRRIGATION CONTROL VALVE
  - LP LIGHT POLE
  - LS LANDSCAPING
  - MC METAL COVER
  - MET METAL
  - MH MANHOLE
  - N.P.V. NO PIPES VISIBLE
  - P POST
  - PB PULL BOX
  - R= RIM
  - RCP REINFORCED CONCRETE PIPE
  - S SIGN
  - UP UTILITY POLE
  - WG WATER GATE
  - WSF WOOD STOCKADE FENCE
  - 12" T 12" TREE
  - Handicapped Parking
  - Overhead Wires
  - W WATER LINE
  - D DRAIN LINE
  - 10- GRADE CONTOUR
  - PROPERTY LINE
  - EDGE OF WATER AT TIME OF SURVEY
  - FEMA FLOOD ZONE LINE
  - LIMIT OF BORDERING VEGETATED WETLAND
  - BORDERING VEGETATED WETLAND
  - BANK
  - BUFFER ZONE
  - BANK (B) & WETLAND (WF) FLAGS
  - Cyperus engelmannii LOCATION (OBSERVED OCTOBER 2017)

**TREE SPECIES LIST:**

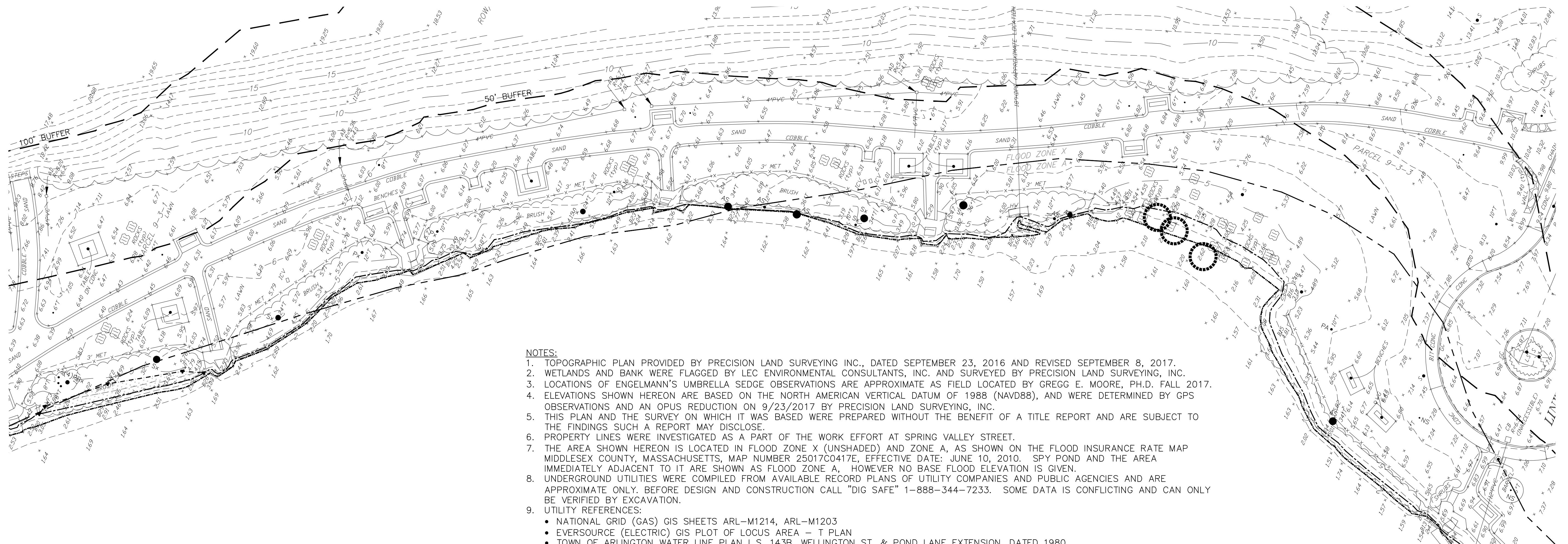
SYM.	SCIENTIFIC NAME	COMMON NAME
AA	<i>AILANTHUS ALTISSIMA</i>	TREE OF HEAVEN*
APS	<i>ACER PSEUDOPLANTANUS</i>	SYCAMORE MAPLE
AN	<i>ACER NEGUNDO</i>	BOXELDER
AP	<i>ACER PLATANOIDES</i>	NORWAY MAPLE*
AR	<i>ACER RUBRUM</i>	RED MAPLE
AS	<i>ACER SACCHARINUM</i>	SILVER MAPLE
Bx	<i>BETULA sp.</i>	BIRCH
Fx	<i>FRAXINUS sp.</i>	ASH
GT	<i>GLEDITSIA TRICANTHOS</i>	HONEYLOCUST
Max	<i>MALUS sp.</i>	APPLE
MOx	<i>MORUS sp.</i>	MULBERRY*
NS	<i>NYSSA SYLVATICA</i>	TUPELO
PA	<i>PLATANUS ACERIFOLIA</i>	LONDON PLANETREE
Pix	<i>PICEA sp.</i>	SPRUCE
Pox	<i>POPULUS sp.</i>	ASPEN, POPLAR
PRx	<i>PRUNUS sp.</i>	CHERRY
QP	<i>QUERCUS PALUSTRIS</i>	PIN OAK
Ox	<i>QUERCUS sp.</i>	OAK
RP	<i>ROBINIA PSEUDOACACIA</i>	BLACK LOCUST*
Sx	<i>SALIX sp.</i>	WILLOW
Ux	<i>ULMUS sp.</i>	ELM

\* INVASIVE SPECIES



**AREA 1: SPY POND PARK (NORTH)**

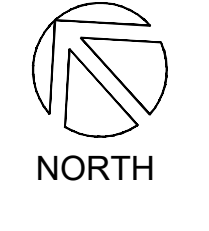
SCALE: 1" = 20'-0"



- NOTES:**
- TOPOGRAPHIC PLAN PROVIDED BY PRECISION LAND SURVEYING INC., DATED SEPTEMBER 23, 2016 AND REVISED SEPTEMBER 8, 2017.
  - WETLANDS AND BANK WERE FLAGGED BY LEC ENVIRONMENTAL CONSULTANTS, INC. AND SURVEYED BY PRECISION LAND SURVEYING, INC.
  - LOCATIONS OF ENGELMANN'S UMBRELLA SEDGE OBSERVATIONS ARE APPROXIMATE AS FIELD LOCATED BY GREGG E. MOORE, PH.D. FALL 2017.
  - ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AND WERE DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION ON 9/23/2017 BY PRECISION LAND SURVEYING, INC.
  - THIS PLAN AND THE SURVEY ON WHICH IT WAS BASED WERE PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE SUBJECT TO THE FINDINGS SUCH A REPORT MAY DISCLOSE.
  - PROPERTY LINES WERE INVESTIGATED AS A PART OF THE WORK EFFORT AT SPRING VALLEY STREET.
  - THE AREA SHOWN HEREON IS LOCATED IN FLOOD ZONE X (UNSHADED) AND ZONE A, AS SHOWN ON THE FLOOD INSURANCE RATE MAP MIDDLESEX COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0417E, EFFECTIVE DATE: JUNE 10, 2010. SPY POND AND THE AREA IMMEDIATELY ADJACENT TO IT ARE SHOWN AS FLOOD ZONE A. HOWEVER NO BASE FLOOD ELEVATION IS GIVEN.
  - UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. BEFORE DESIGN AND CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233. SOME DATA IS CONFLICTING AND CAN ONLY BE VERIFIED BY EXCAVATION.
  - UTILITY REFERENCES:
    - NATIONAL GRID (GAS) GIS SHEETS ARL-M1214, ARL-M1203
    - EVERSOURCE (ELECTRIC) GIS PLOT OF LOCUS AREA - T PLAN
    - TOWN OF ARLINGTON WATER LINE PLAN L.S. 143B, WELLINGTON ST. & POND LANE EXTENSION, DATED 1980.
    - TOWN OF ARLINGTON PLAN AND PROFILE LINWOOD ST. DRAIN, JAN 1941.
    - TOWN OF ARLINGTON STORM DRAIN PLAN IN WELLINGTON STREET, JULY 1950.
    - TOWN OF ARLINGTON SHEETS L1 & L2, CONTRACT #2633, SPY POND PARK DATED 10/13/1992 BY PRESSLEY ASSOCIATES

**AREA 2: SPY POND PARK (SOUTH)**

SCALE: 1" = 20'-0"



Stamp:



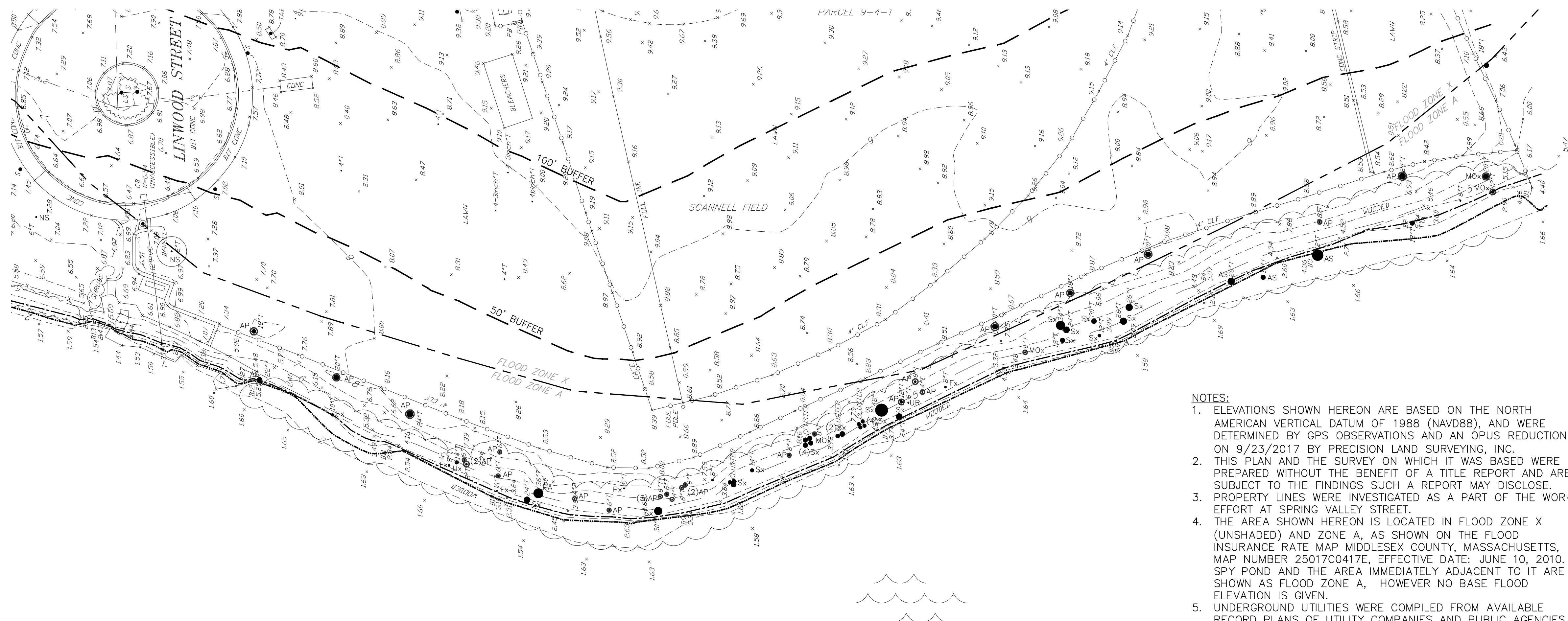
Project:  
Job Number: H-355321  
Date: January 4, 2019  
Drawn By: A. Keel  
Designed By:

Reviewed By: H. Holmes, D. Bitsko  
Revisions:  
Number: Description: Date:

Sheet Title:

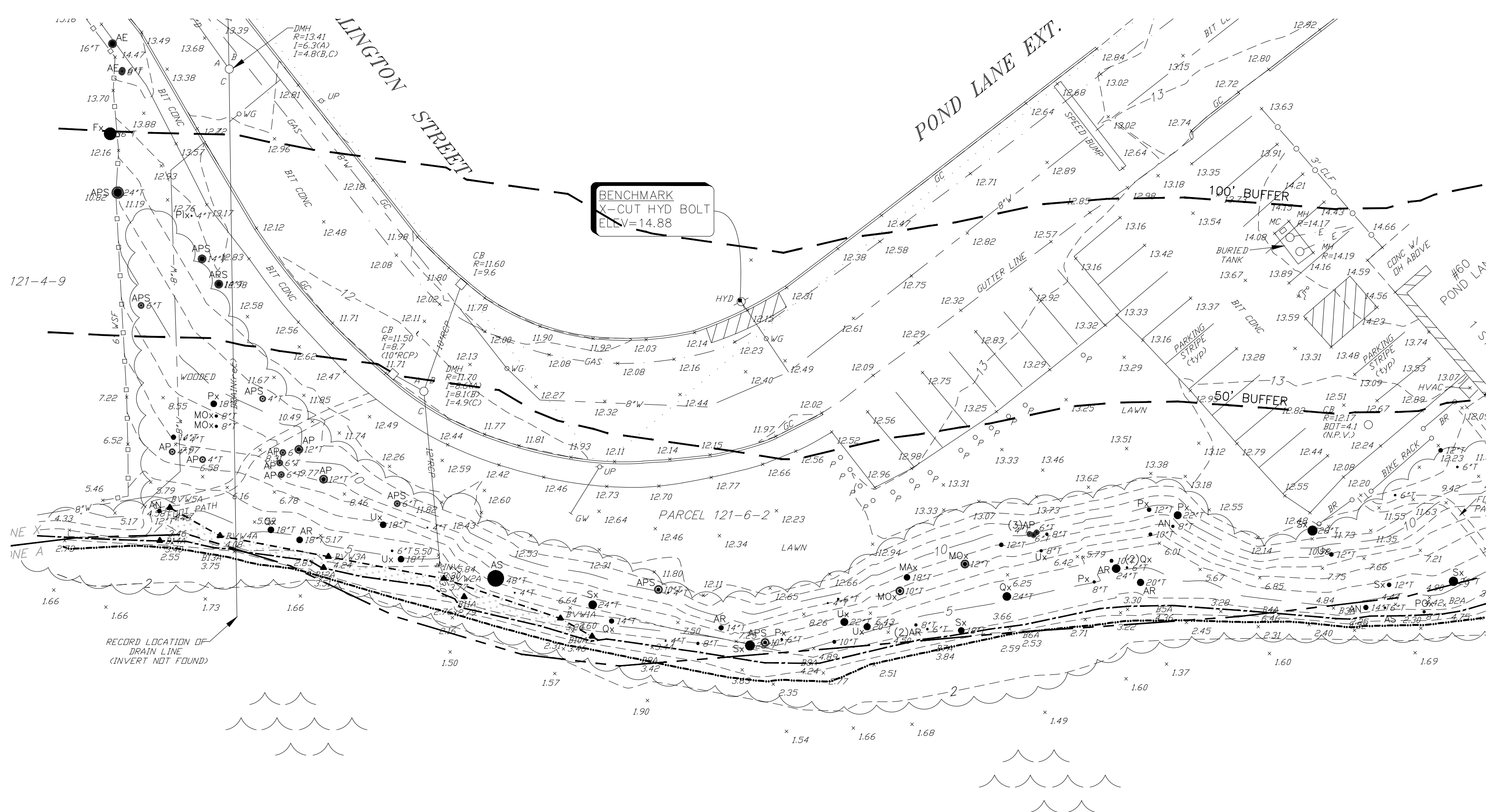
**EXISTING CONDITIONS & RESOURCE AREAS PLAN**

Sheet No:



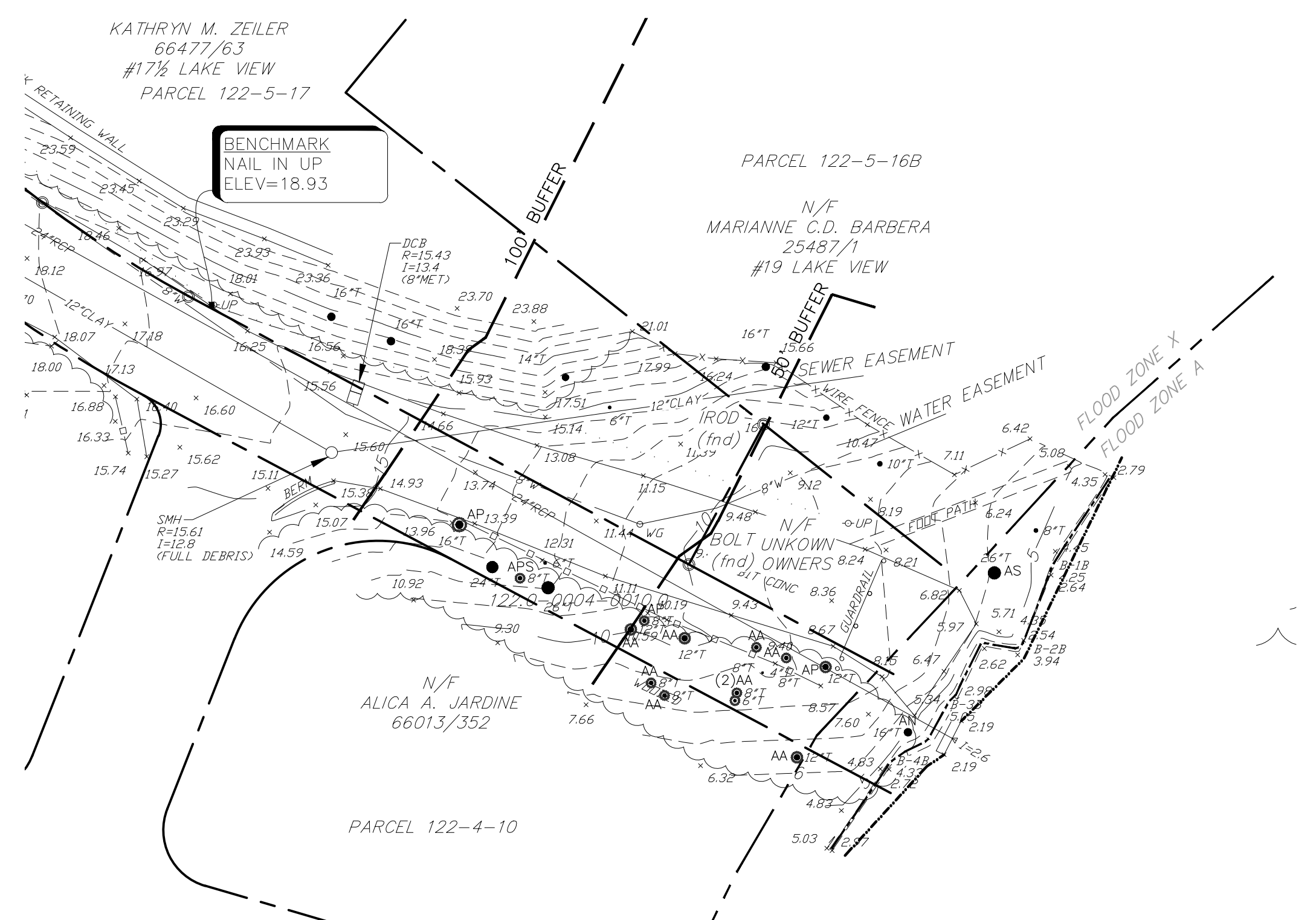
**AREA 3: SCANNELL FIELD**

SCALE: 1" = 20'-0"



**AREA 4: BOYS AND GIRLS CLUB**

SCALE: 1" = 20'-0"



**AREA 5: SPRING VALLEY**

SCALE: 1" = 20'-0"

- LEGEND:**
- AD AREA DRAIN
  - BIT CONC BITUMINOUS CONCRETE
  - BOT BOTTOM
  - BR BIKE RACK
  - CB CATCH BASIN
  - CLF CHAIN LINK FENCE
  - CONC CONCRETE
  - DMH DRAIN MANHOLE
  - FA FIRE ALARM
  - GC GRANITE CURB
  - GW GUY WIRE
  - HW HEADWALL
  - HYD HYDRANT
  - IN INVERT
  - ICV IRRIGATION CONTROL VALVE
  - LP LIGHT POLE
  - LS LANDSCAPING
  - MC METAL COVER
  - MET METAL
  - MH MANHOLE
  - N.P.V. NO PIPES VISIBLE
  - P POST
  - PB PULL BOX
  - RIM RIM
  - RCP REINFORCED CONCRETE PIPE
  - S SIGN
  - UP UTILITY POLE
  - WG WATER GATE
  - WF WOOD STOCKADE FENCE
  - 12" T 12" TREE
  - Handicapped Parking HANDICAPPED PARKING
  - Overhead Wires OVERHEAD WIRES
  - Water Line WATER LINE
  - DRAIN LINE DRAIN LINE
  - 10- GRADE CONTOUR
  - PROPERTY LINE PROPERTY LINE
  - EDGE OF WATER AT TIME OF SURVEY EDGE OF WATER AT TIME OF SURVEY
  - FEMA FLOOD ZONE LINE FEMA FLOOD ZONE LINE
  - LIMIT OF BORDERING VEGETATED WETLAND LIMIT OF BORDERING VEGETATED WETLAND
  - BORDERING VEGETATED WETLAND BORDERING VEGETATED WETLAND
  - BANK BANK
  - BUFFER ZONE BUFFER ZONE
  - ▲ BANK (B) & WETLAND (WF) FLAGS

- NOTES:**
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AND WERE DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION ON 9/23/2017 BY PRECISION LAND SURVEYING, INC.
  - THIS PLAN AND THE SURVEY ON WHICH IT WAS BASED WERE PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE SUBJECT TO THE FINDINGS SUCH A REPORT MAY DISCLOSE.
  - PROPERTY LINES WERE INVESTIGATED AS A PART OF THE WORK EFFORT AT SPRING VALLEY STREET.
  - THE AREA SHOWN HEREON IS LOCATED IN FLOOD ZONE X (UNSHADED) AND ZONE A, AS SHOWN ON THE FLOOD INSURANCE RATE MAP MIDDLESEX COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0417E, EFFECTIVE DATE: JUNE 10, 2010. SPY POND AND THE AREA IMMEDIATELY ADJACENT TO IT ARE SHOWN AS FLOOD ZONE A, HOWEVER NO BASE FLOOD ELEVATION IS GIVEN.
  - UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. BEFORE DESIGN AND CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233. SOME DATA IS CONFLICTING AND CAN ONLY BE VERIFIED BY EXCAVATION.
  - UTILITY REFERENCES:
    - NATIONAL GRID (GAS) GIS SHEETS ARL-M1214, ARL-M1203
    - EVERSOURCE (ELECTRIC) GIS PLOT OF LOCUS AREA - T PLAN
    - TOWN OF ARLINGTON WATER LINE PLAN L.S. 143B, WELLINGTON ST. & POND LANE EXTENSION, DATED 1980.
    - TOWN OF ARLINGTON PLAN AND PROFILE LINWOOD ST. DRAIN, JAN 1941.
    - TOWN OF ARLINGTON STORM DRAIN PLAN IN WELLINGTON STREET, JULY 1950.
    - TOWN OF ARLINGTON SHEETS L1 & L2, CONTRACT #2633, SPY POND PARK DATED 10/13/1992 BY PRESSLEY ASSOCIATES

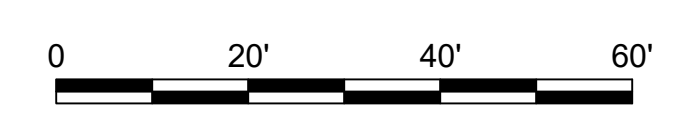
**TREE SPECIES LIST:**

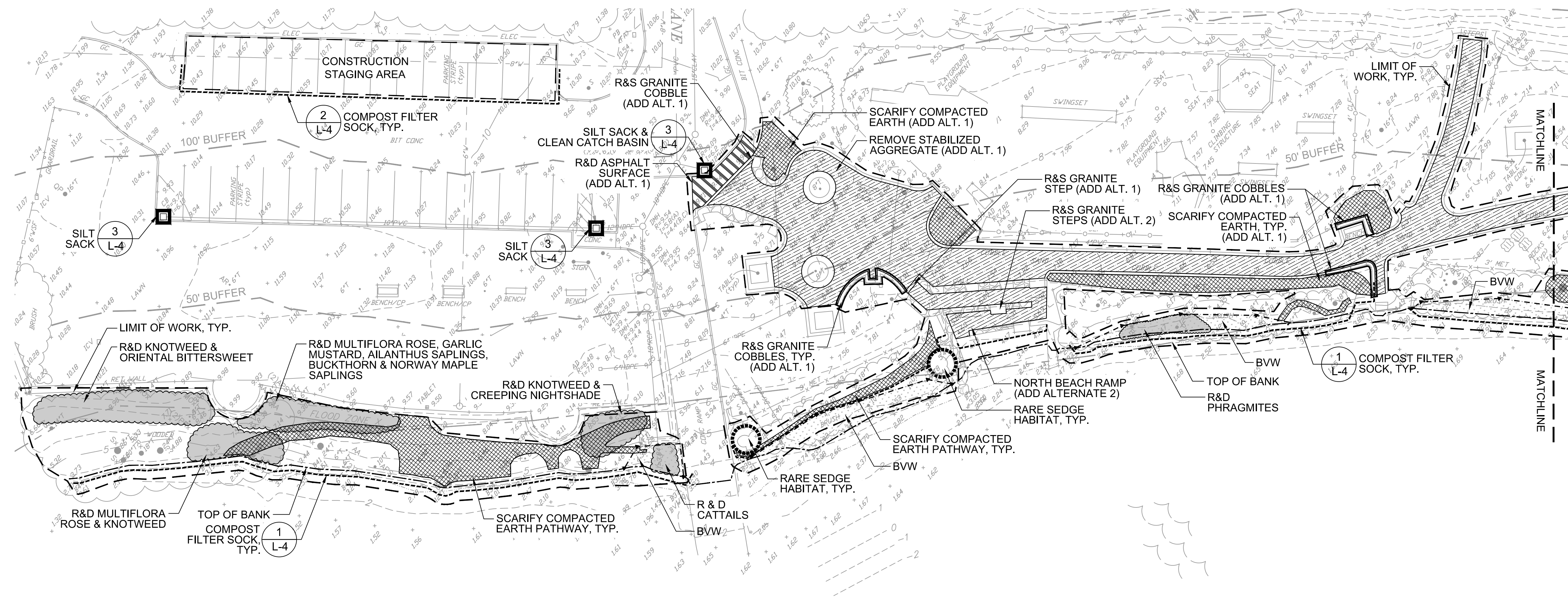
SYM.	SCIENTIFIC NAME	COMMON NAME
AA	<i>AILANTHUS ALTISSIMA</i>	TREE OF HEAVEN*
APS	<i>ACER PSEUDOPLATANUS</i>	SYCAMORE MAPLE
AN	<i>ACER NEGUNDO</i>	BOXELDER
AP	<i>ACER PLATANOIDES</i>	NORWAY MAPLE*
AR	<i>ACER RUBRUM</i>	RED MAPLE
AS	<i>ACER SACCHARINUM</i>	SILVER MAPLE
Bx	<i>BETULA sp.</i>	BIRCH
Fx	<i>FRAXINUS sp.</i>	ASH
GT	<i>GLEDITSIA TRICANTHOS</i>	HONEYLOCUST
Max	<i>MALUS sp.</i>	APPLE
MOx	<i>MORUS sp.</i>	MULBERRY*
NS	<i>NYSSA SYLVATICA</i>	TUPELO
PA	<i>PLATANUS ACERIFOLIA</i>	LONDON PLANETREE
Pix	<i>PICEA sp.</i>	SPRUCE
Pox	<i>POPULUS sp.</i>	ASPEN, POPLAR
PRx	<i>PRUNUS sp.</i>	CHERRY
QP	<i>QUERCUS PALUSTRIS</i>	PIN OAK
Ox	<i>QUERCUS sp.</i>	OAK
RP	<i>ROBINIA PSEUDOACACIA</i>	BLACK LOCUST*
Sx	<i>SALIX sp.</i>	WILLOW
Ux	<i>ULMUS sp.</i>	ELM

\* INVASIVE SPECIES



Project:  
Job Number: H-355321  
Date: January 4, 2019  
Drawn By: A. Keel  
Designed By:  
Reviewed By: H. Holmes, D. Bitsko  
Revisions:  
Number: Description: Date:

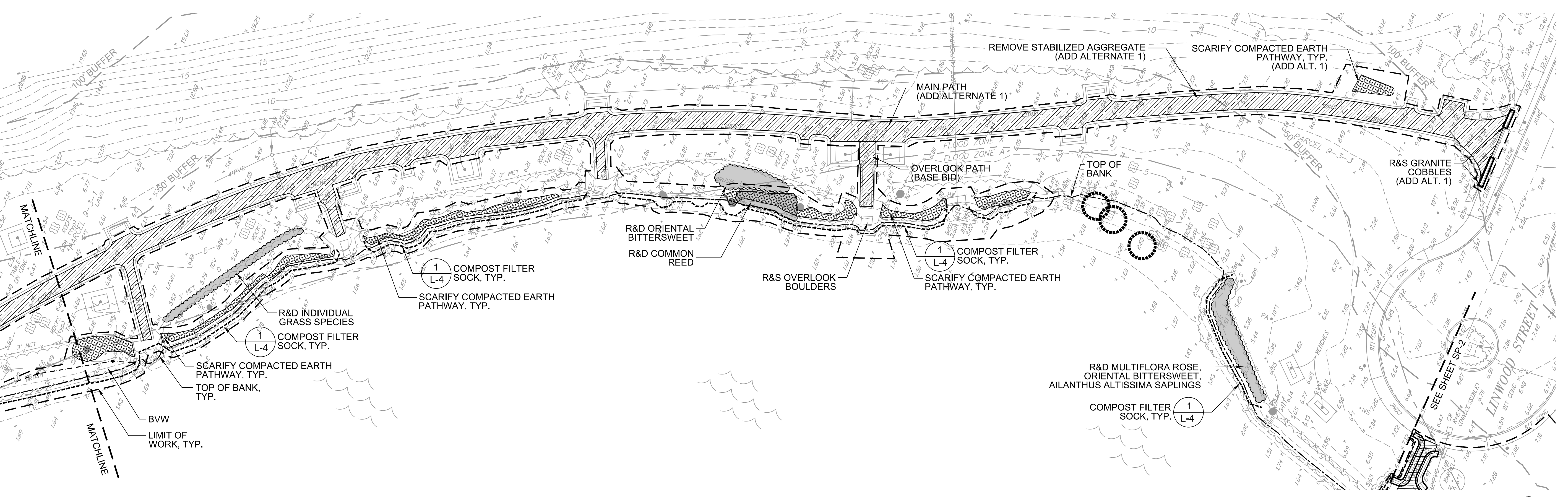




- LEGEND**
- PROPERTY LINE
  - LIMIT OF WORK
  - TOP OF BANK
  - BORDERING VEGETATED WETLAND (BVW)
  - LIMIT OF 50'/100' BUFFER ZONE
  - FEMA FLOOD ZONE X LINE
  - COMPOST FILTER SOCK
  - REMOVE ASPHALT SURFACE
  - REMOVE STABILIZED AGGREGATE
  - SCARIFY COMPACTED EARTH PATH
  - INVASIVE PLANT REMOVAL
  - CYPERUS ENGELMANNII (OBSERVED OCT. 2017)
  - INLET PROTECTION
  - GRANITE COBBLE TO BE STOCKPILED
  - R&D REMOVE & DISPOSE OF
  - R&S REMOVE & STOCKPILE (SALVAGE)

- NOTES:**
1. SPY POND WATER ELEVATION SHALL BE LOWERED TO ELEVATION 2.0 FT NAVD 88 PRIOR TO COMMENCEMENT OF ANY COIR FASCINE RELATED CONSTRUCTION ACTIVITIES. CONTACT ARLINGTON DPW TO COORDINATE WATER ELEVATION LEVEL.
  2. EROSION CONTROL FABRIC SHALL BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER WHERE SOILS ARE BEING REGRADED AND/OR SCARIFIED.
  3. LIMITS OF INVASIVE SPECIES REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

**AREA 1: SPY POND PARK (NORTH)**  
SCALE: 1" = 20'-0"



**AREA 2: SPY POND PARK (SOUTH)**  
SCALE: 1" = 20'-0"

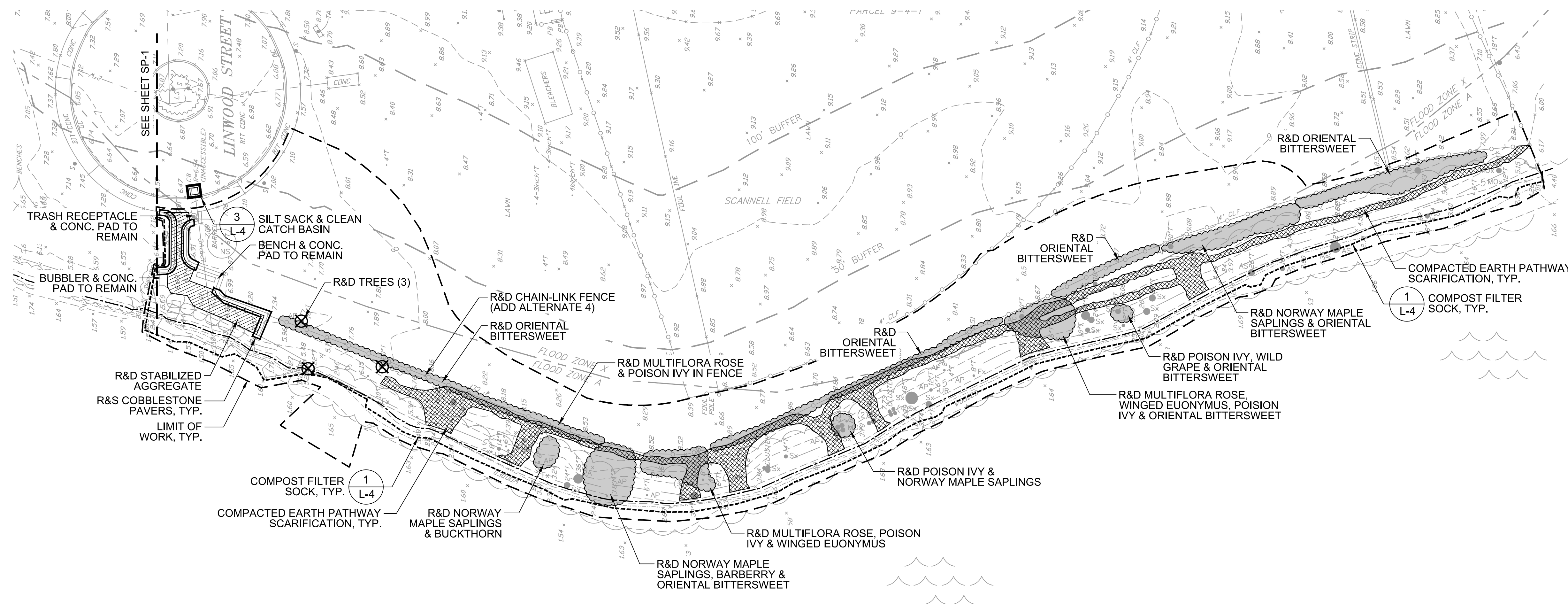


Project:

Job Number: H-355321  
Date: January 4, 2019  
Drawn By: A. Keel  
Designed By: H. Holmes  
Reviewed By: H. Holmes, D. Bitsko

Revisions	Number:	Description:	Date:

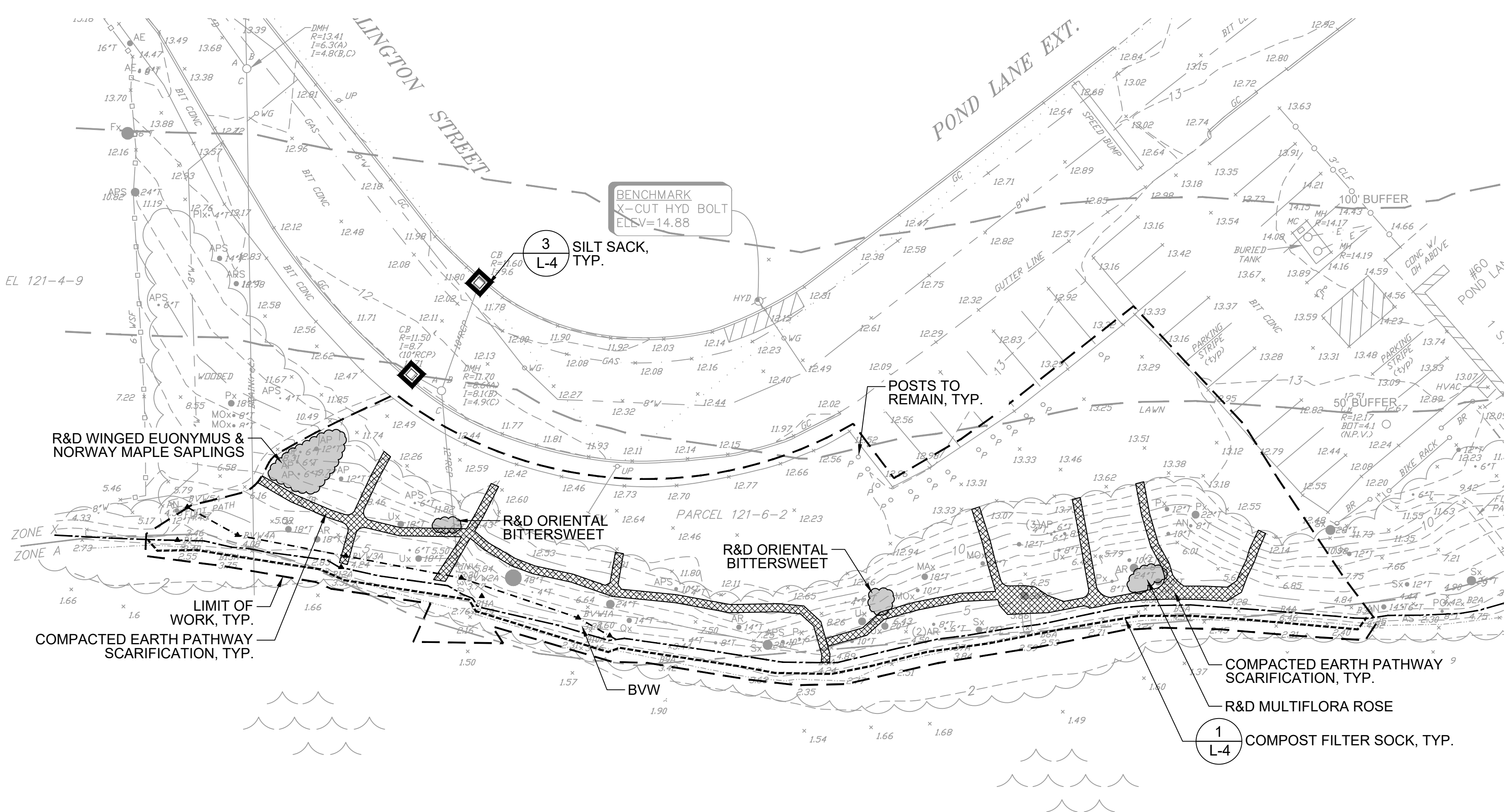
Sheet Title:



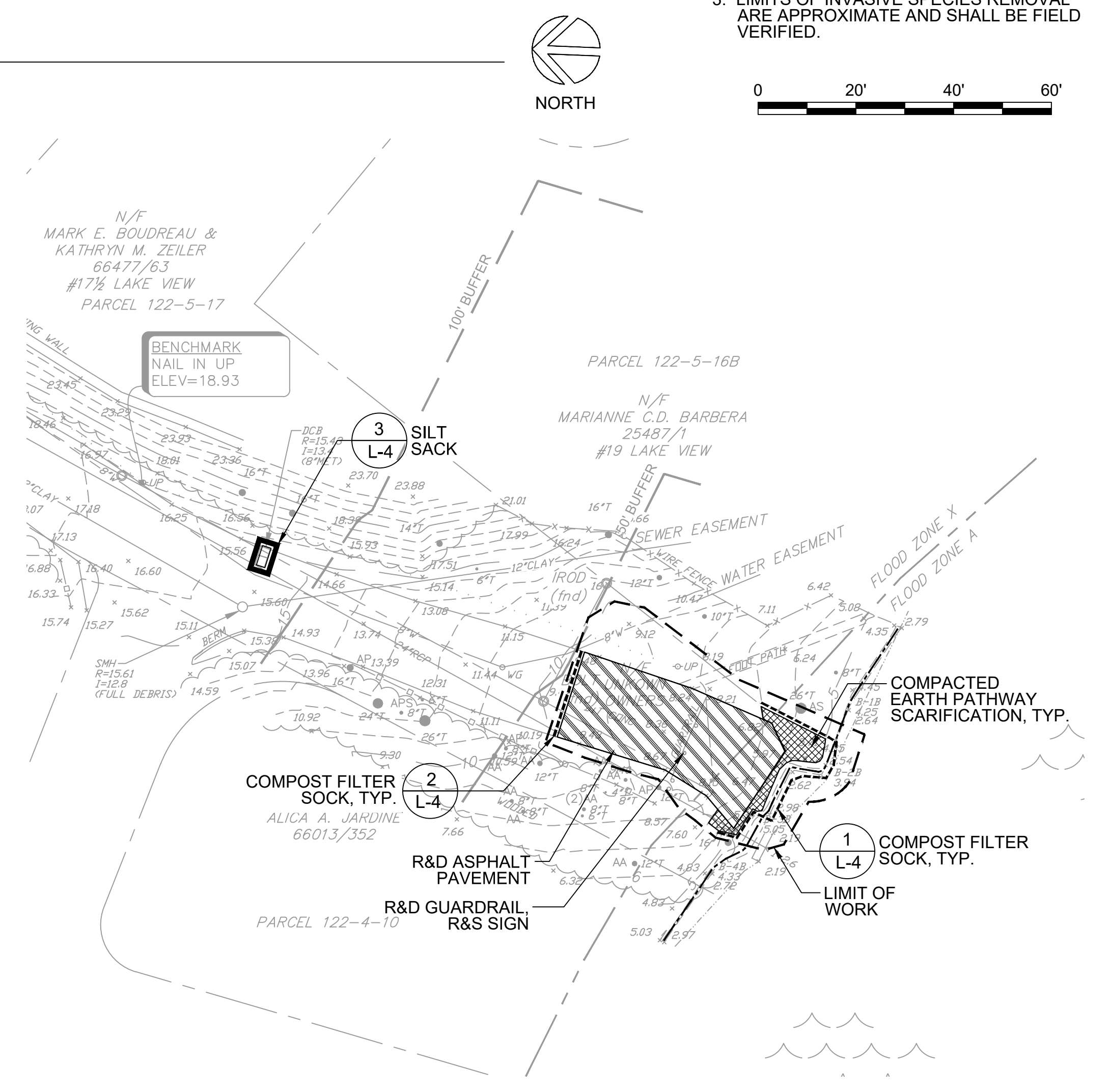
- LEGEND**
- PROPERTY LINE
  - - - LIMIT OF WORK
  - - - TOP OF BANK
  - - - BORDERING VEGETATED WETLAND (BVW)
  - - - LIMIT OF 50'/100' BUFFER ZONE
  - - - FEMA FLOOD ZONE X LINE
  - - - COMPOST FILTER SOCK
  - [Hatched Box] REMOVE ASPHALT SURFACE
  - [Hatched Box] REMOVE STABILIZED AGGREGATE
  - [Hatched Box] SCARIFY COMPACTED EARTH PATH
  - [Cloud Shape] INVASIVE PLANT REMOVAL
  - [Circle with X] CYPHERUS ENGELMANNII (OBSERVED OCT. 2017)
  - [Square with X] INLET PROTECTION
  - [Thick Line] GRANITE COBBLE TO BE STOCKPILED
  - R&D REMOVE & DISPOSE OF
  - R&S REMOVE & STOCKPILE (SALVAGE)

- NOTES:**
1. SPY POND WATER ELEVATION SHALL BE LOWERED TO ELEVATION 2.0 FT NAVD 88 PRIOR TO COMMENCEMENT OF ANY COIR FASCINE RELATED CONSTRUCTION ACTIVITIES. CONTACT ARLINGTON DPW TO COORDINATE WATER ELEVATION LEVEL.
  2. EROSION CONTROL FABRIC SHALL BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER WHERE SOILS ARE BEING REGRADED AND/OR SCARIFIED.
  3. LIMITS OF INVASIVE SPECIES REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

**AREA 3: SCANNELL FIELD**  
 SCALE: 1" = 20'-0"



**AREA 4: BOYS AND GIRLS CLUB**  
 SCALE: 1" = 20'-0"



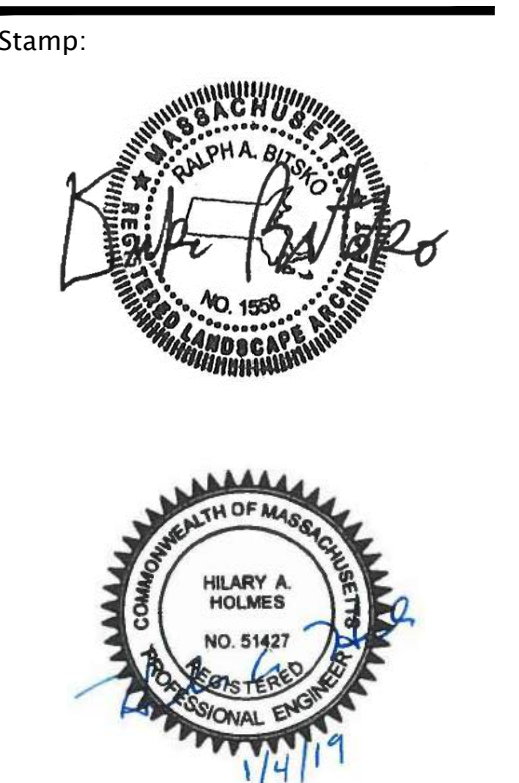
**AREA 5: SPRING VALLEY (ADD ALTERNATE 3)**  
 SCALE: 1" = 20'-0"



Job Number: H-355321  
 Date: January 4, 2019  
 Drawn By: A. Keel  
 Designed By: H. Holmes  
 Reviewed By: H. Holmes, D. Bitsko

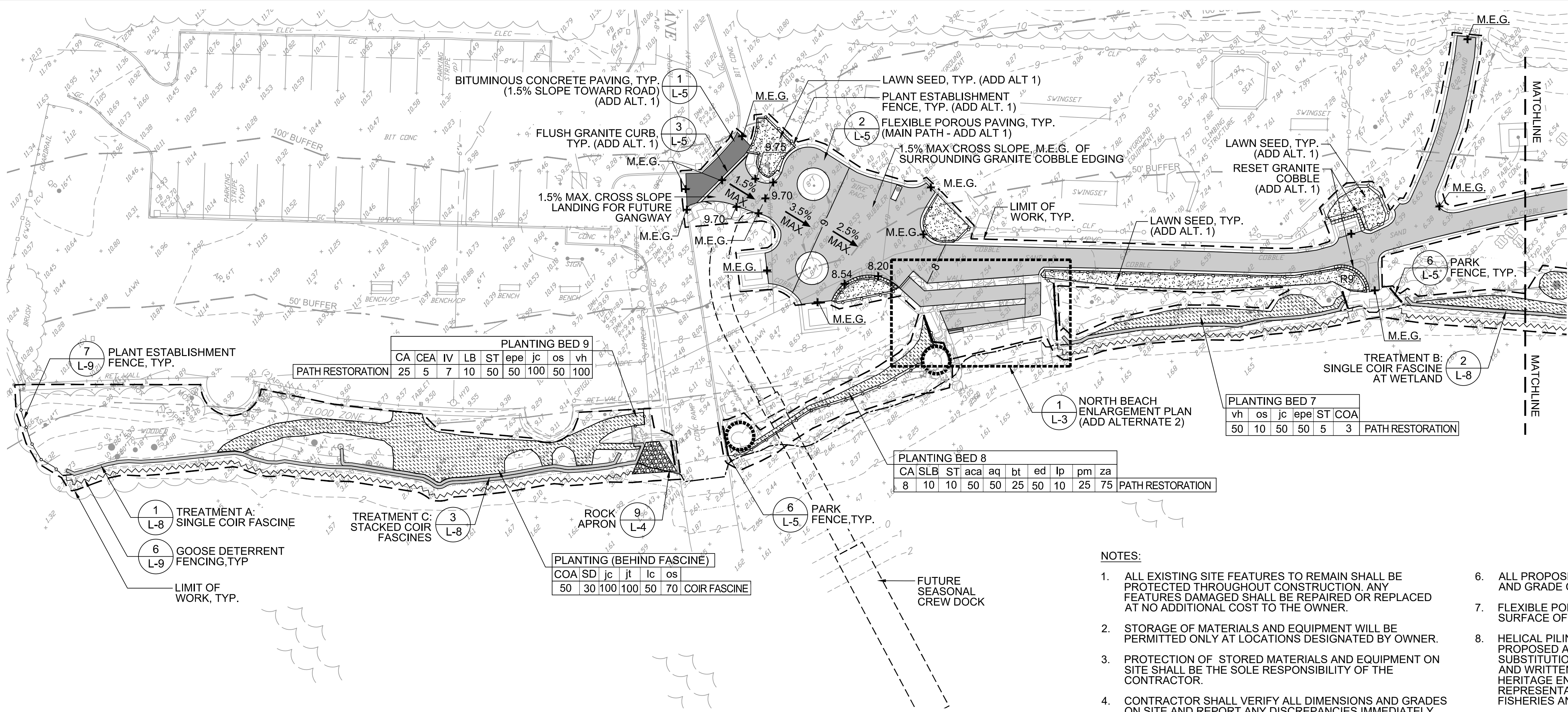
Revisions	Number:	Description:	Date:

Sheet Title:



Project:  
Job Number: H-355321  
Date: January 4, 2019  
Drawn By: A. Keel  
Designed By: H. Holmes, B. Neville, G. Johnson  
Reviewed By: D. Bitsko  
Revisions:  
Number: Description: Date:

Sheet Title:  
**SITE PLAN**  
Sheet No:



**LEGEND**

- PROPERTY LINE
- - - LIMIT OF WORK
- BITUMINOUS CONCRETE PAVING
- ▨ FLEXIBLE POROUS PAVING
- ▧ FLUSH GRANITE CURB
- ▩ RESET GRANITE COBBLE
- ROCK APRON
- ▬ DOUBLE COIR FASCINE
- ▮ SINGLE COIR FASCINE
- ▯ CHAIN LINK FENCE (4' HT.) (ADD ALTERNATE 1)
- ▰ PARK FENCE (33" HT.)
- ▱ TIMBER GUIDERAIL
- ▲ PLANT ESTABLISHMENT FENCE (4' HT.)
- △ GOOSE DETERRENT FENCING
- ▴ PLANTING AREA
- ▵ MEADOW SEED MIX
- ▶ TALL TURF SEED MIX
- ▷ LAWN SEED MIX

PLANTING BED 9

CA	CEA	IV	LB	ST	epe	jc	os	vh
25	5	7	10	50	50	100	50	100

PATH RESTORATION

PLANTING BED 8

CA	SLB	ST	aca	aq	bt	ed	lp	pm	za
8	10	10	50	50	25	50	10	25	75

PATH RESTORATION

PLANTING (BEHIND FASCINE)

COA	SD	jc	jt	lc	os
50	30	100	100	50	70

COIR FASCINE

PLANTING BED 7

vh	os	jc	epe	ST	COA
50	10	50	50	5	3

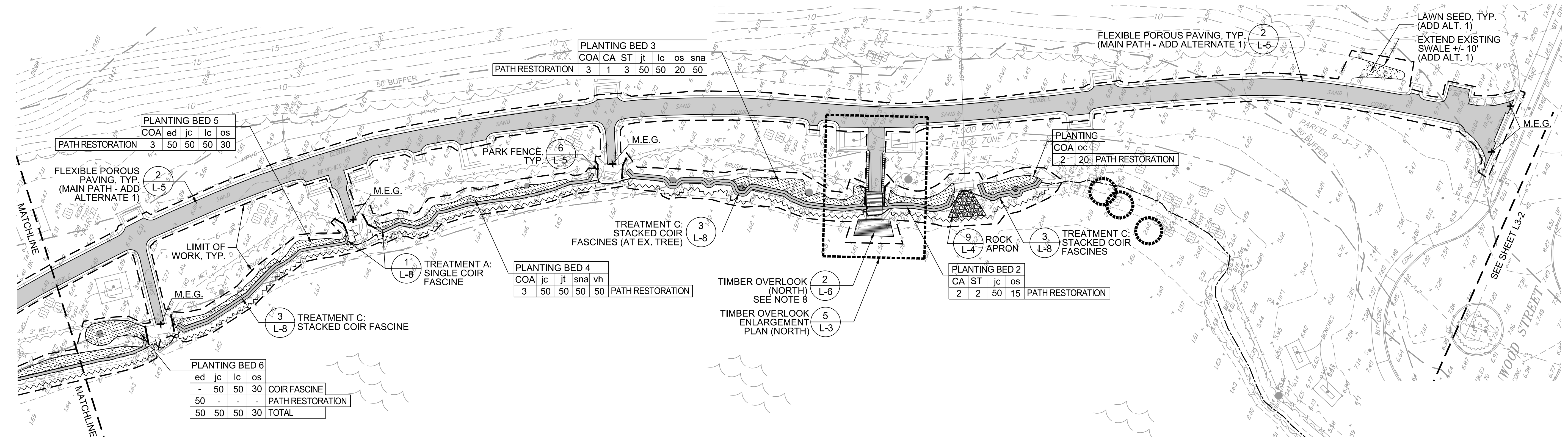
PATH RESTORATION

**NOTES:**

- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. ANY FEATURES DAMAGED SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED ONLY AT LOCATIONS DESIGNATED BY OWNER.
- PROTECTION OF STORED MATERIALS AND EQUIPMENT ON SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- FLEXIBLE POROUS PAVEMENT SUBGRADE SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF FLEXIBLE POROUS PAVEMENT SURFACING.
- ALL PROPOSED PAVING SURFACES SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES.
- FLEXIBLE POROUS PAVING MATERIAL SHALL MEET TOP SURFACE OF BENCH FOOTINGS IN ALL LOCATIONS (2).
- HELICAL PILINGS FOR TIMBER OVERLOOKS (2) ARE PROPOSED AND SHOWN IN DETAIL ON SHEET L-6. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE REVIEW AND WRITTEN AUTHORIZATION GRANTED BY THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM (NHESP) REPRESENTATIVES, MASSACHUSETTS DIVISION OF FISHERIES AND WILDLIFE (508.389.6360).
- ALL UTILITY GRATES AND COVERS EXPOSED AT GRADE SHALL BE FLUSH WITH ADJACENT FINISHED GRADE.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, GRADE TRANSITION SHALL BE BLENDED SMOOTHLY.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH LAWN SEED MIX UNLESS OTHERWISE NOTED.

**AREA 1: SPY POND PARK (NORTH)**

SCALE: 1" = 20'-0"



PLANTING BED 5

COA	ed	jc	lc	os
3	50	50	50	30

PATH RESTORATION

PLANTING BED 3

COA	CA	ST	jt	lc	os	sna
3	1	3	50	50	20	50

PATH RESTORATION

PLANTING BED 4

COA	jc	jt	sna	vh
3	50	50	50	50

PATH RESTORATION

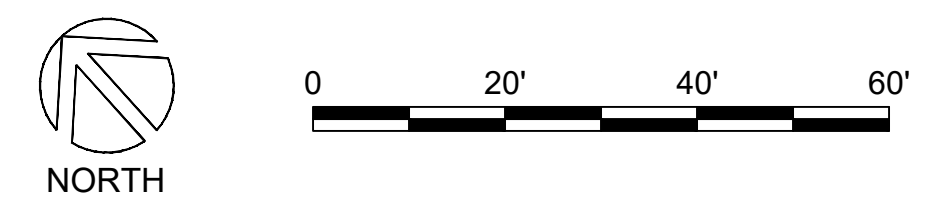
PLANTING BED 6

ed	jc	lc	os
-	50	50	30
50	-	-	-
50	50	50	30

COIR FASCINE  
PATH RESTORATION  
TOTAL

**AREA 1: SPY POND PARK (SOUTH)**

SCALE: 1" = 20'-0"



Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



**SPY POND**  
**EDGE & EROSION CONTROL PROJECT**  
 ARLINGTON, MA  
**BID DOCUMENTS**

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A.Keel

Designed By:

H.Holmes, B.Neville, G.Johnson

Reviewed By:

D.Bitko

Revisions

Number: Description: Date:

Sheet Title:

Sheet No:

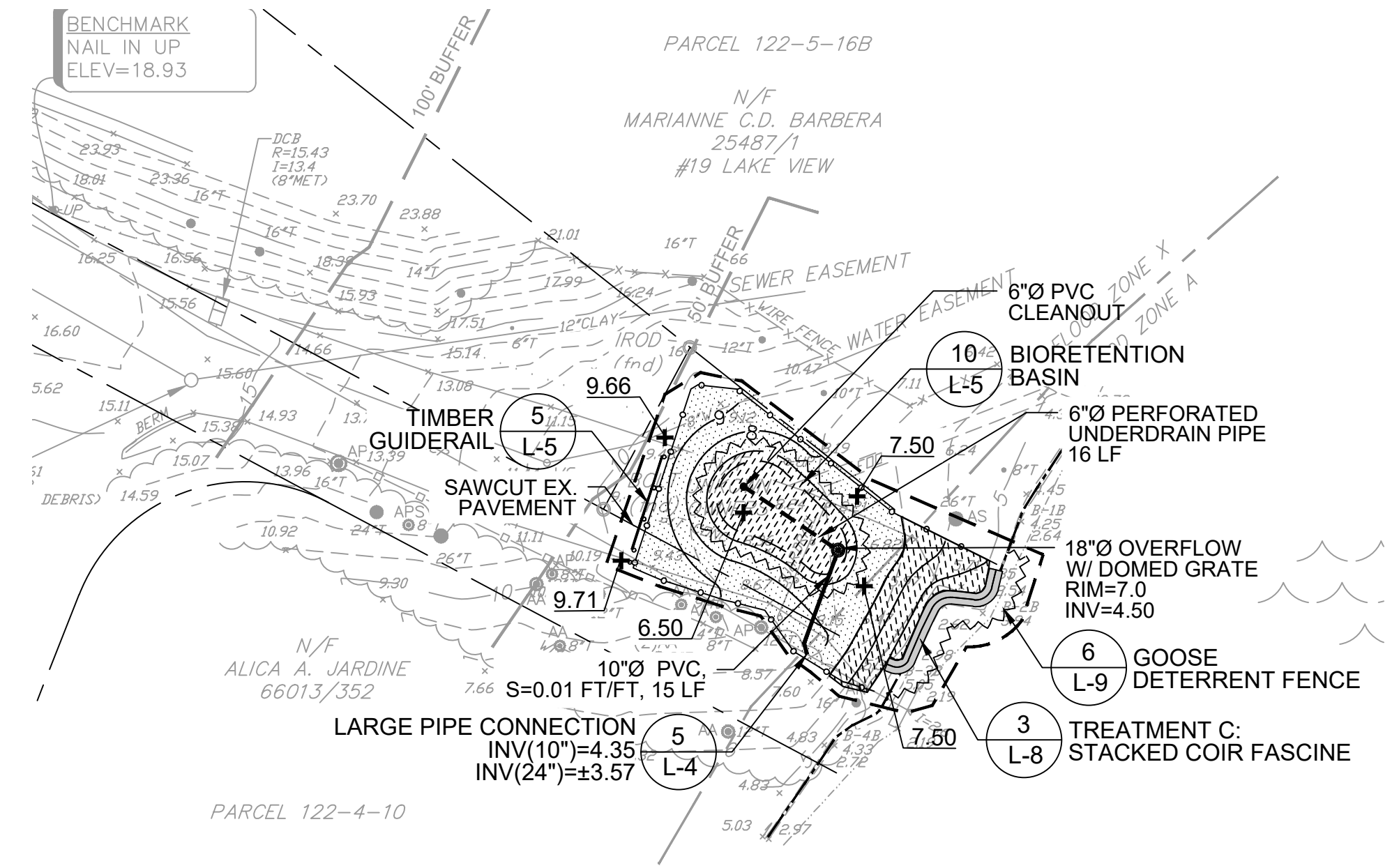
**LEGEND**

- PROPERTY LINE
- - - LIMIT OF WORK
- BITUMINOUS CONCRETE PAVING
- ▨ FLEXIBLE POROUS PAVING
- ▤ FLUSH GRANITE CURB
- ▥ RESET GRANITE COBBLE
- ▧ ROCK APRON
- ▩ DOUBLE COIR FASCINE
- SINGLE COIR FASCINE
- CHAIN LINK FENCE (4' HT.) (ADD ALTERNATE 1)
- ▬ PARK FENCE (33" HT.)
- ▭ TIMBER GUIDERAIL
- ▮ PLANT ESTABLISHMENT FENCE (4' HT.)
- ▯ GOOSE DETERRENT FENCING
- ▰ PLANTING AREA
- ▱ MEADOW SEED MIX
- ▲ TALL TURF SEED MIX
- △ LAWN SEED MIX

**NOTES:**

- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. ANY FEATURES DAMAGED SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED ONLY AT LOCATIONS DESIGNATED BY OWNER.
- PROTECTION OF STORED MATERIALS AND EQUIPMENT ON SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- FLEXIBLE POROUS PAVEMENT SUBGRADE SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF FLEXIBLE POROUS PAVEMENT SURFACING.
- ALL PROPOSED PAVING SURFACES SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES.
- FLEXIBLE POROUS PAVING MATERIAL SHALL MEET TOP SURFACE OF BENCH FOOTINGS IN ALL LOCATIONS (2).
- HELICAL PILING FOR TIMBER OVERLOOKS (2) ARE PROPOSED AND SHOWN IN DETAIL ON SHEET L-6. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE REVIEW AND WRITTEN AUTHORIZATION GRANTED BY THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM (NHESP) REPRESENTATIVES, MASSACHUSETTS DIVISION OF FISHERIES AND WILDLIFE (508.389.6360).
- ALL UTILITY GRATES AND COVERS EXPOSED AT GRADE SHALL BE FLUSH WITH ADJACENT FINISHED GRADE.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, GRADE TRANSITION SHALL BE BLENDED SMOOTHLY.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH LAWN SEED MIX UNLESS OTHERWISE NOTED.

COIR LOG	PLANTING																		
	CO	SD	SA	SRA	VL	at	dp	ep	jc	lc	os	pm	pv	rf	ss	sla	sna	ta	za
PATH RESTORATION	-	-	-	-	-	-	25	-	25	-	-	20	-	-	50	50	-	25	25
BASIN	-	-	-	-	-	50	-	50	100	-	-	150	50	100	-	-	-	-	-
TOTAL	10	10	40	10	10	50	25	50	175	50	50	20	150	50	150	50	50	25	25

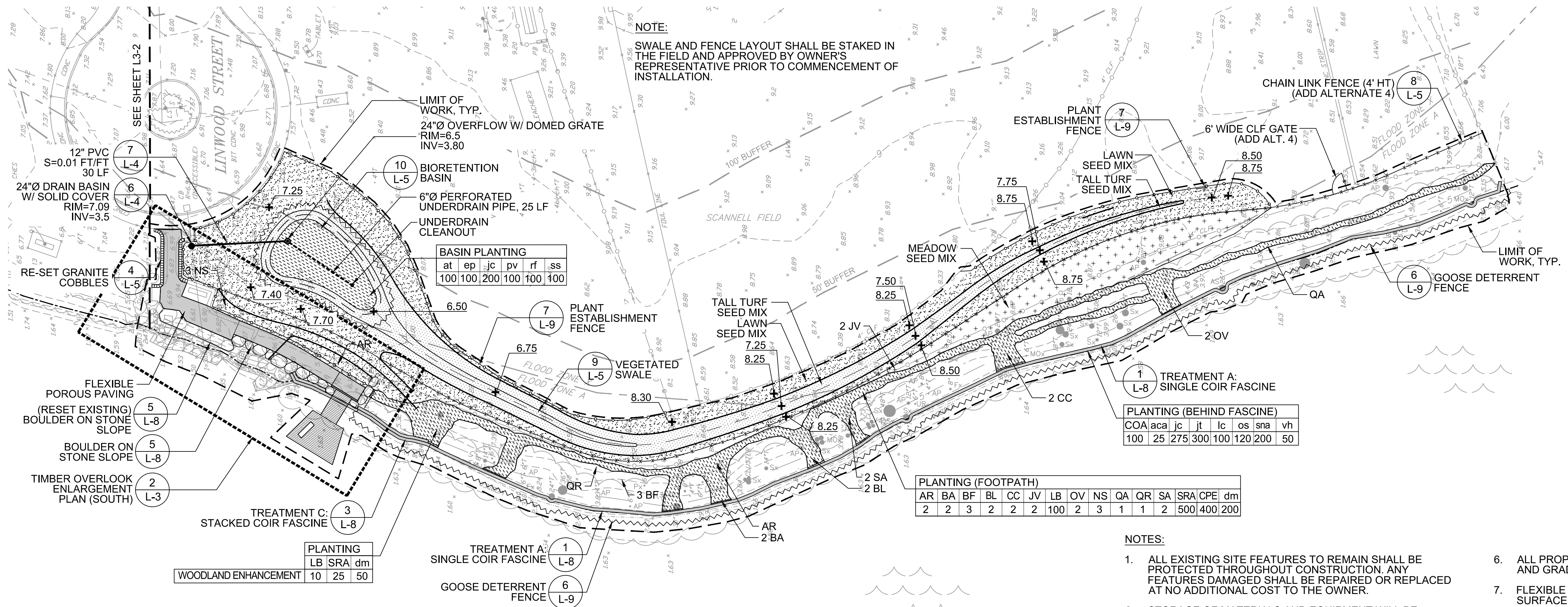


**AREA 4: SPRING VALLEY (ADD ALTERNATE 3)**

SCALE: 1" = 20'-0"

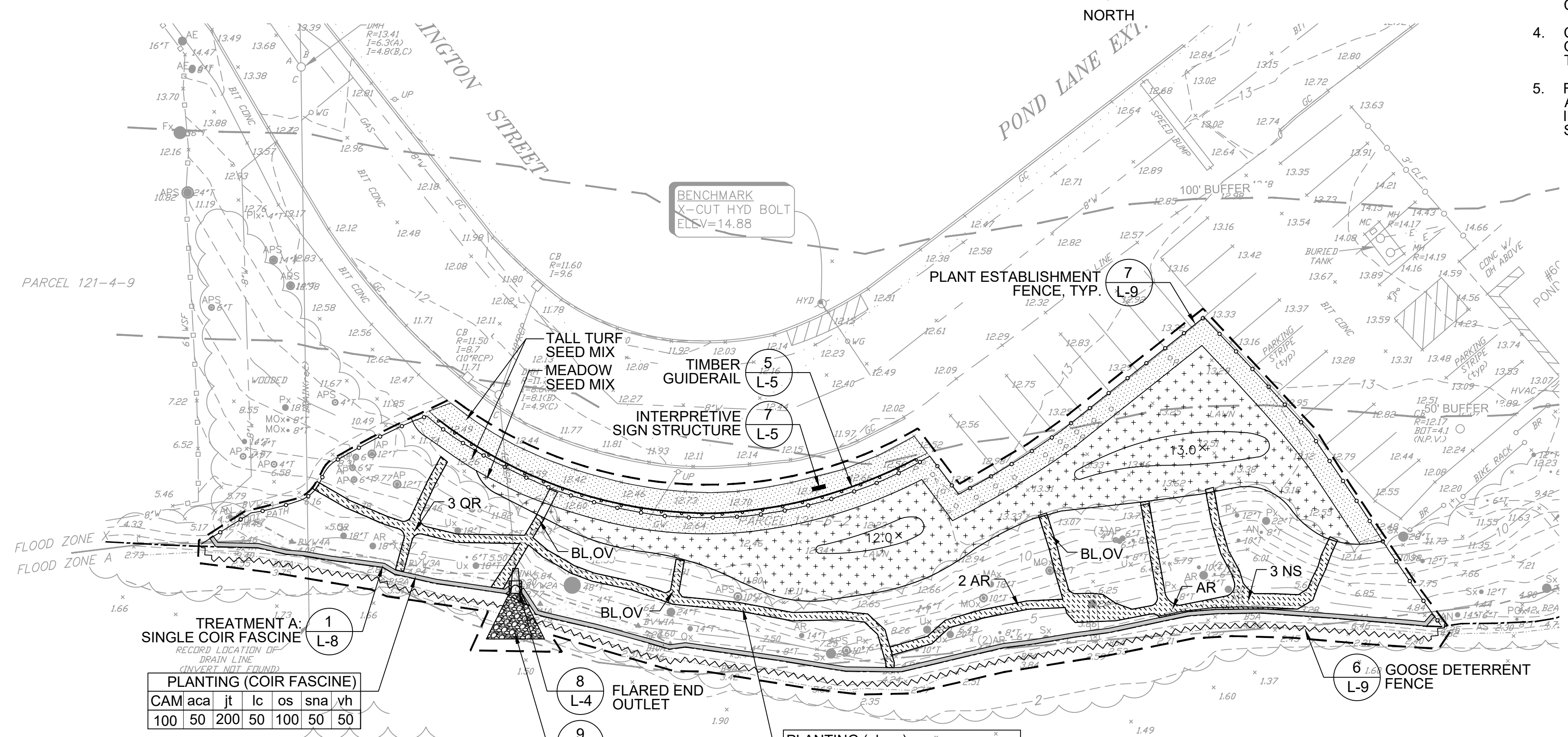
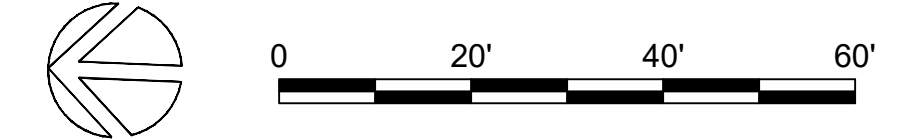


**NOTE:**  
SWALE AND FENCE LAYOUT SHALL BE STAKED IN THE FIELD AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION.



**AREA 2: SCANNELL FIELD**

SCALE: 1" = 20'-0"



**AREA 3: BOYS AND GIRLS CLUB**

SCALE: 1" = 20'-0"



**NOTE:**  
INTERPRETIVE SIGNAGE LOCATION TO BE APPROVED IN FIELD BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



**SPY POND**  
**EDGE & EROSION CONTROL PROJECT**  
ARLINGTON, MA  
**BID DOCUMENTS**

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A. Keel

Designed By:

H. Holmes, G. Johnson

Reviewed By:

H. Holmes, D. Bitsko

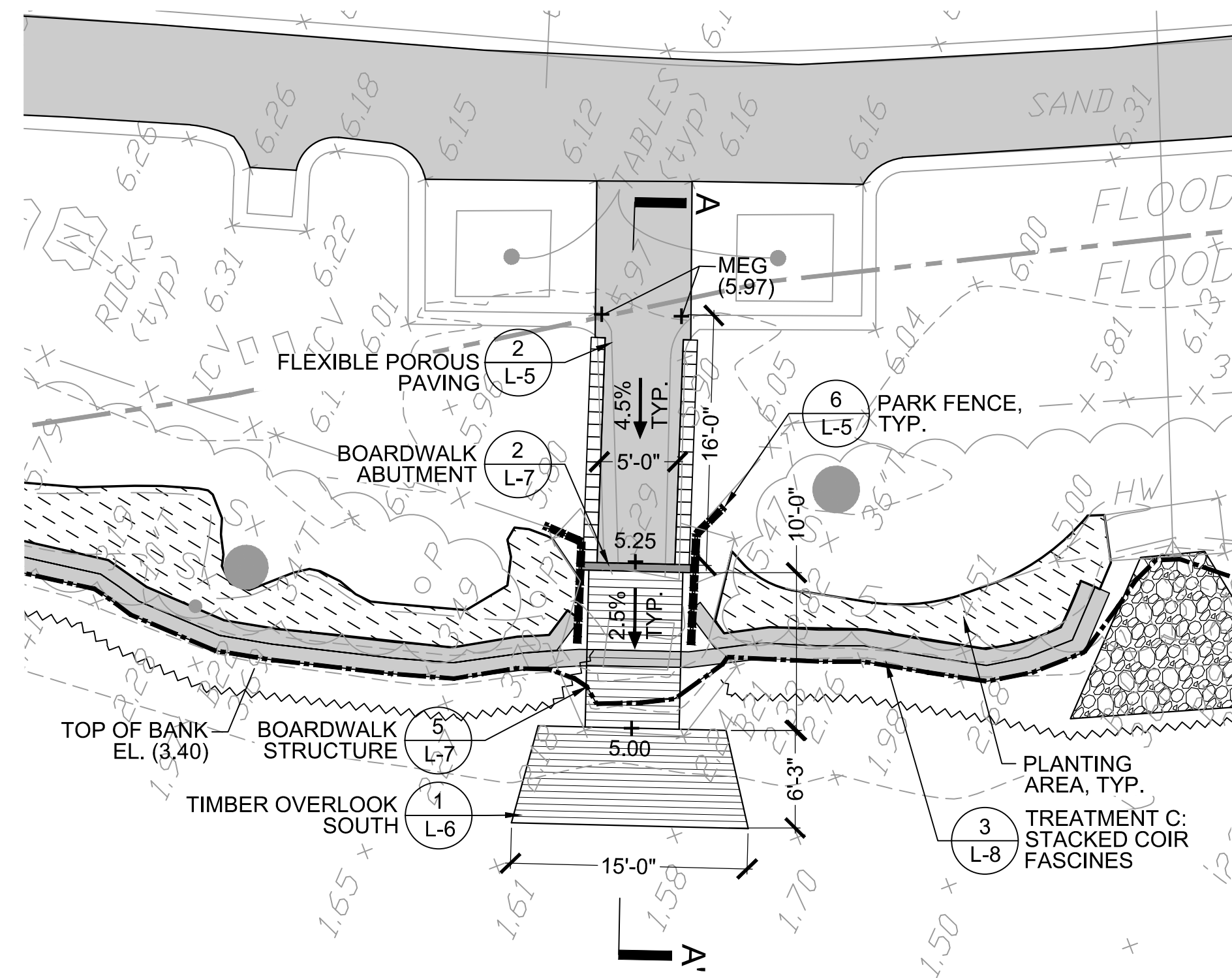
Revisions

Number:	Description:	Date:

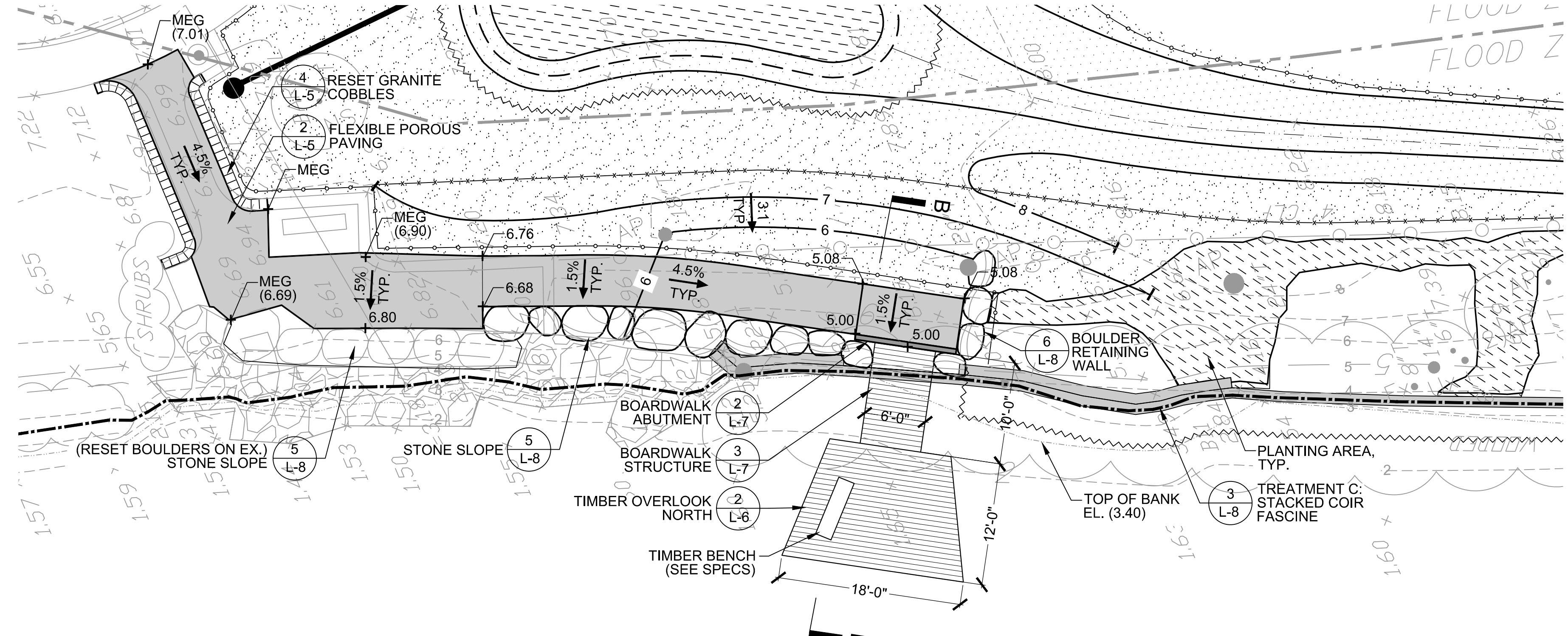
Sheet Title:

**TIMBER OVERLOOK ENLARGEMENT PLANS & SECTIONS**

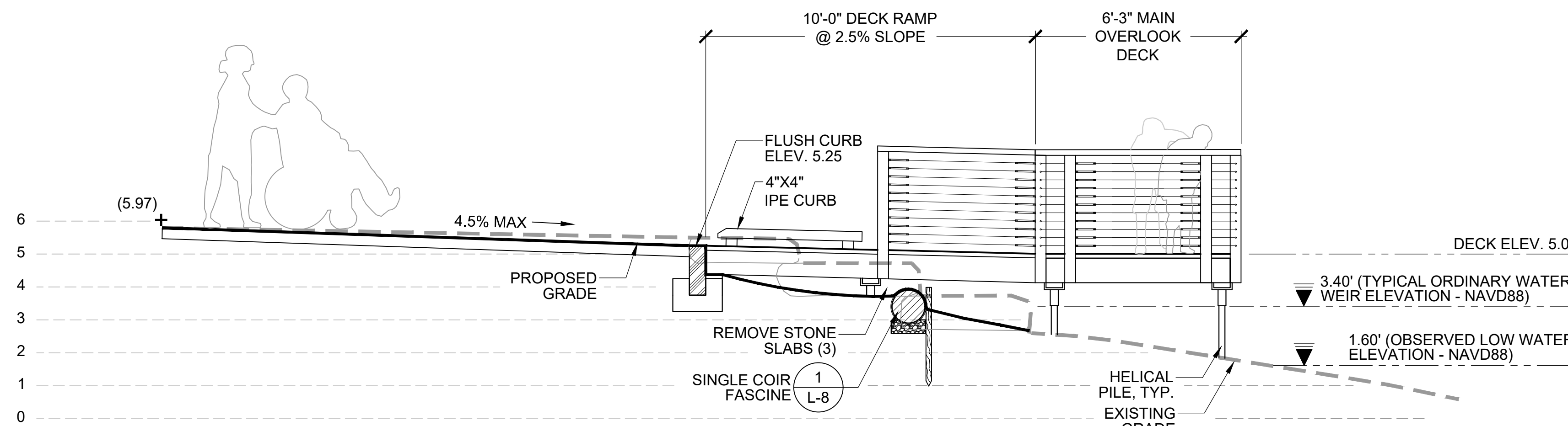
Sheet No:



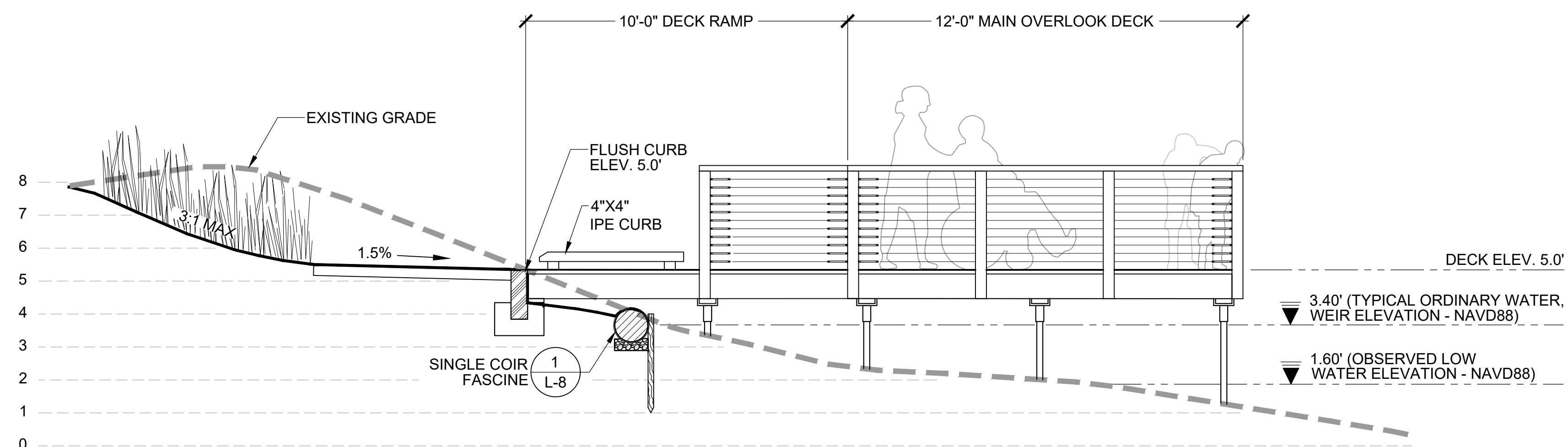
**5** TIMBER OVERLOOK ENLARGEMENT PLAN (NORTH)  
SCALE: 1/8" = 1'-0" NORTH



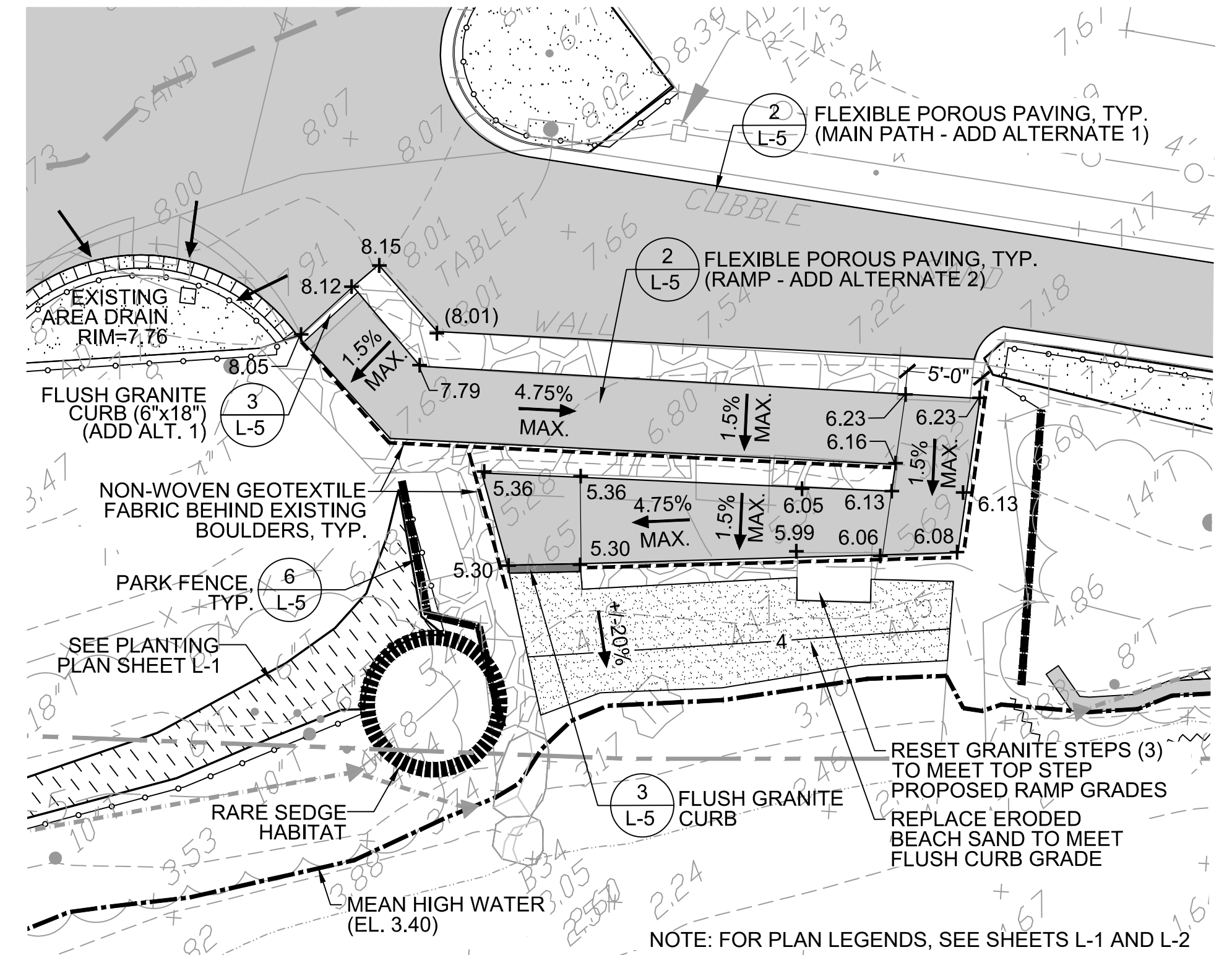
**2** TIMBER OVERLOOK ENLARGEMENT PLAN (SOUTH)  
SCALE: 1/8" = 1'-0" NORTH



**4** TIMBER OVERLOOK SECTION A-A' (NORTH)  
SCALE: 3/8" = 1'-0"



**3** TIMBER OVERLOOK SECTION B-B' (SOUTH)  
SCALE: 3/8" = 1'-0"

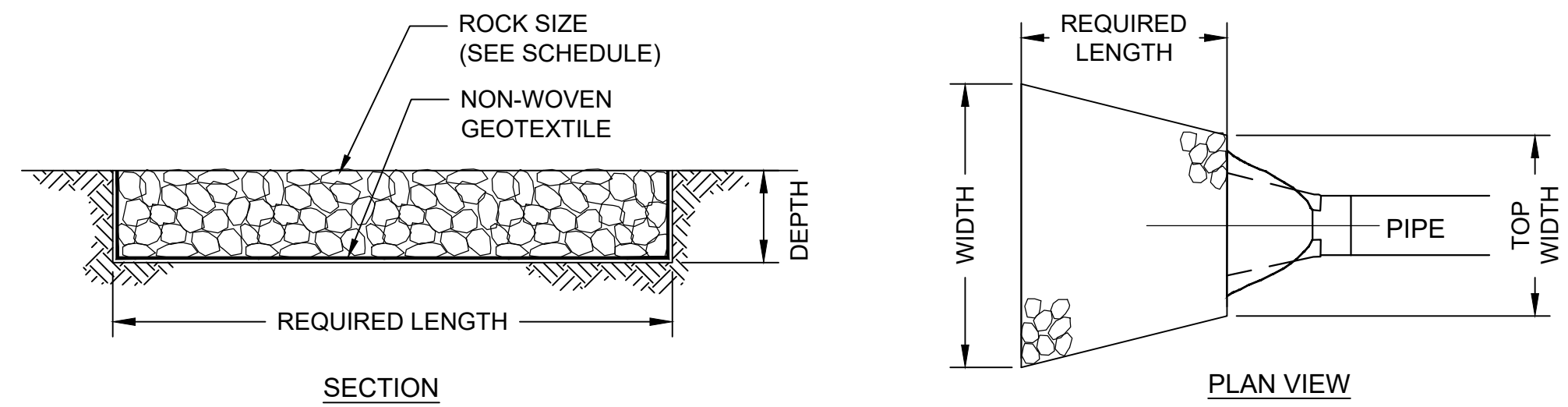


**1** NORTH BEACH ENLARGEMENT PLAN (ADD ALTERNATE 2)  
SCALE: 1/8" = 1'-0" NORTH

**TIMBER OVERLOOK ENLARGEMENT PLANS & SECTIONS**

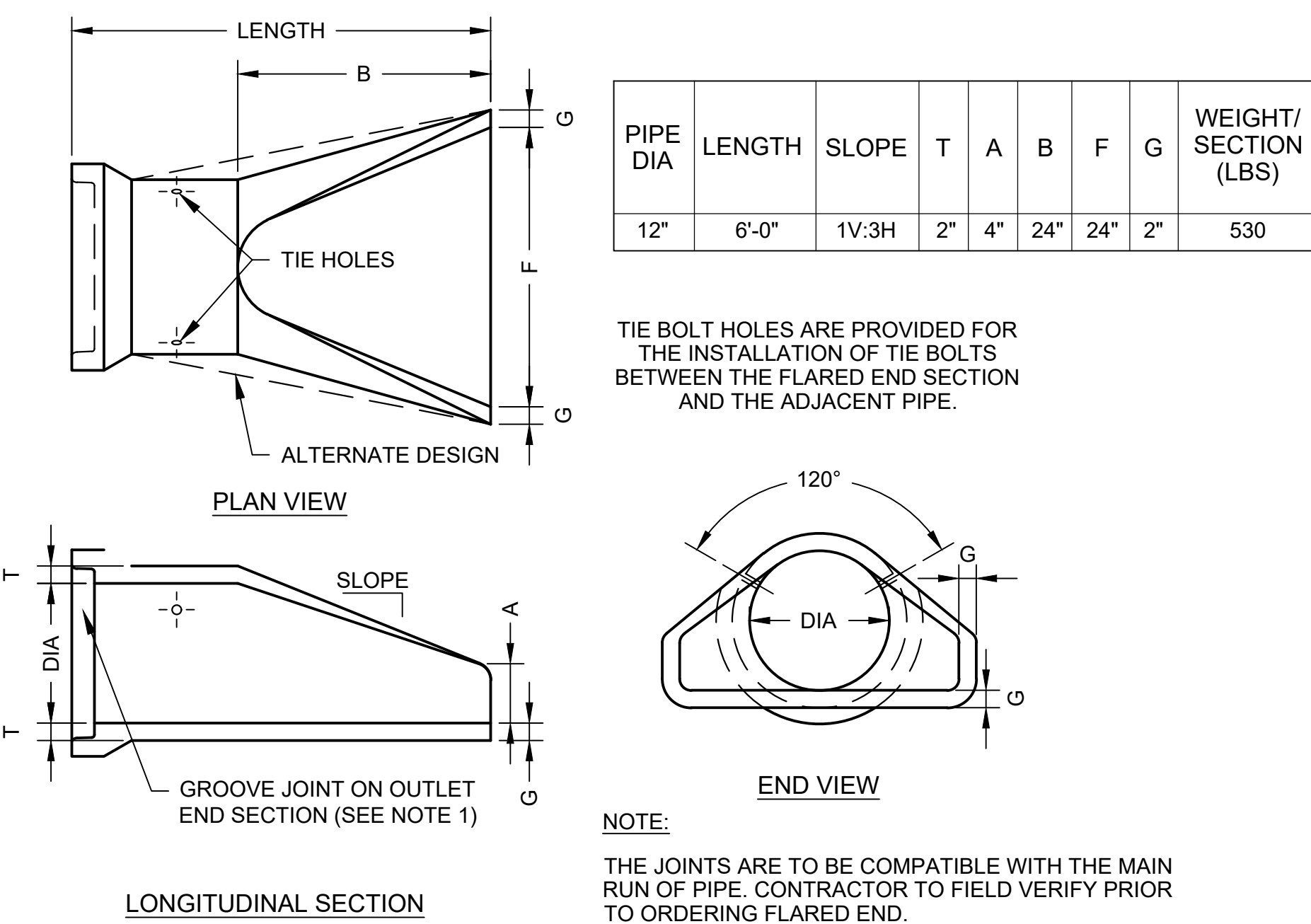
Sheet No:



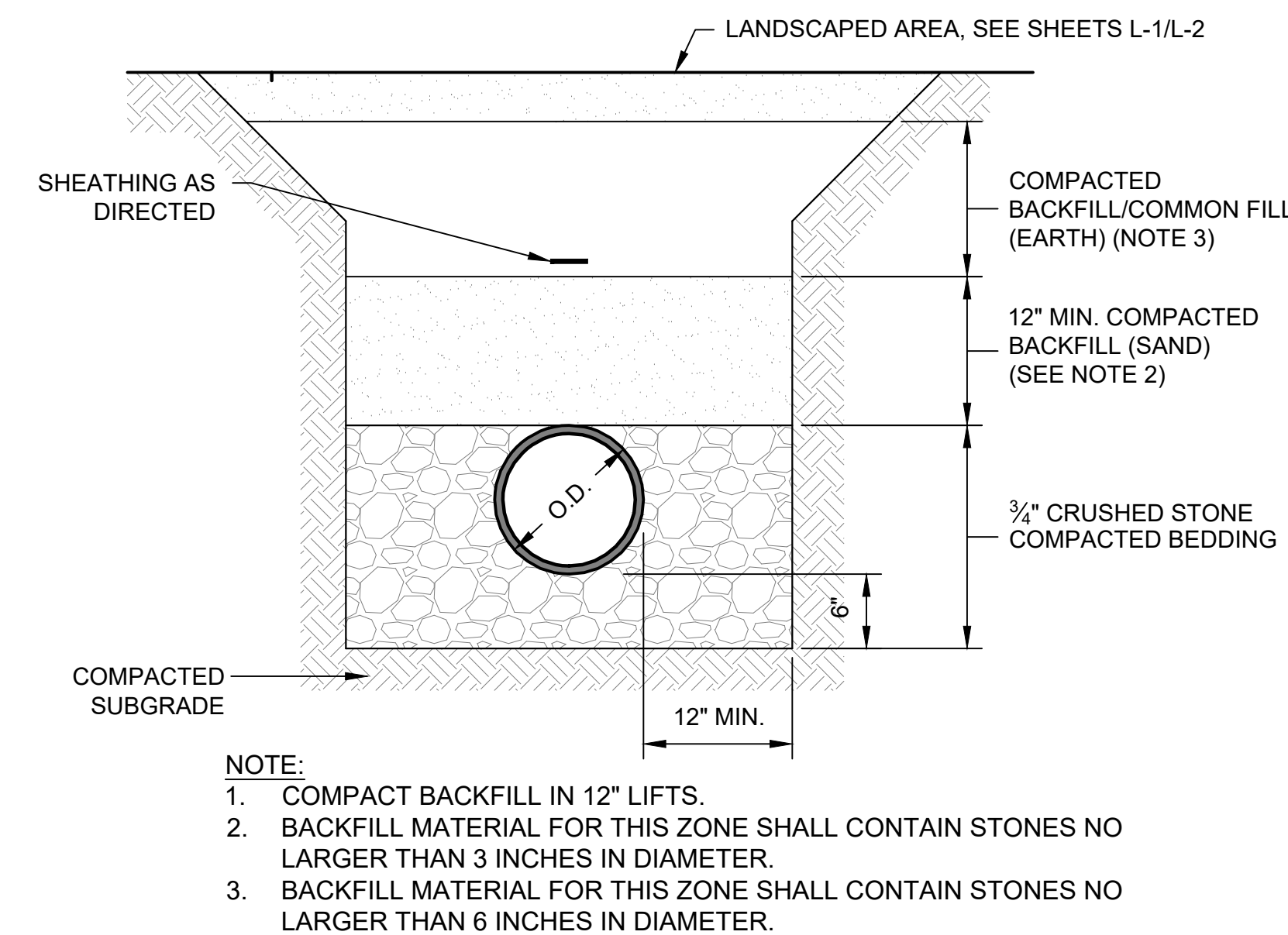


ROCK APRON DESIGN SCHEDULE							
DISCHARGE PIPE LOCATION	APRON TYPE	PIPE DIA. (IN)	TOP WIDTH (FT)	LENGTH (FT)	WIDTH (FT)	ROCK SIZE	REQUIRED DEPTH (FT)
SPY POND PARK (NORTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
SPY POND PARK (SOUTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
NEAR BOYS & GIRLS CLUB	RIPRAP	12	3	11	14	D50=6"	1.5

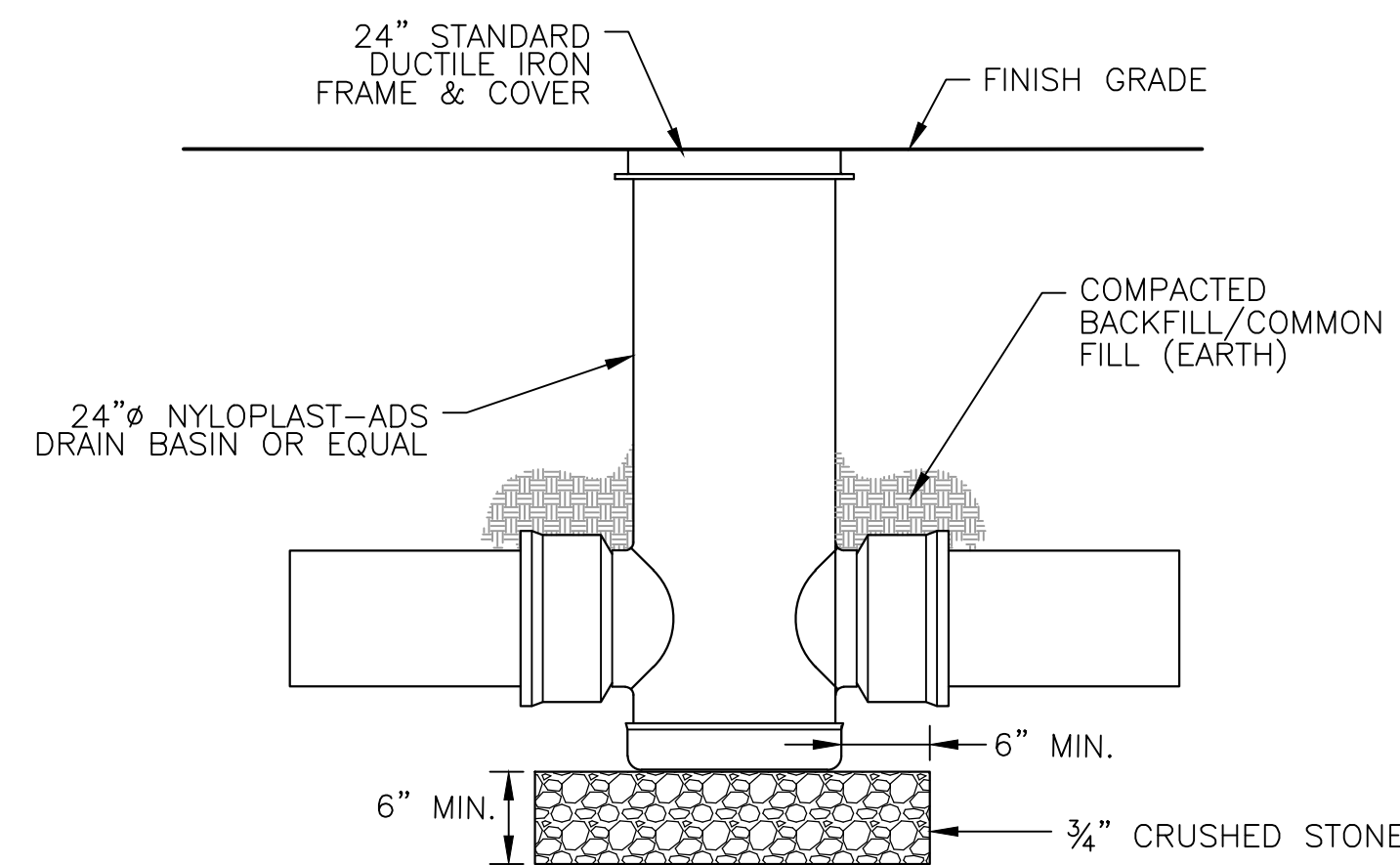
**9 ROCK APRON**  
SCALE: NTS



**8 FLARED END OUTLET**  
SCALE: NTS

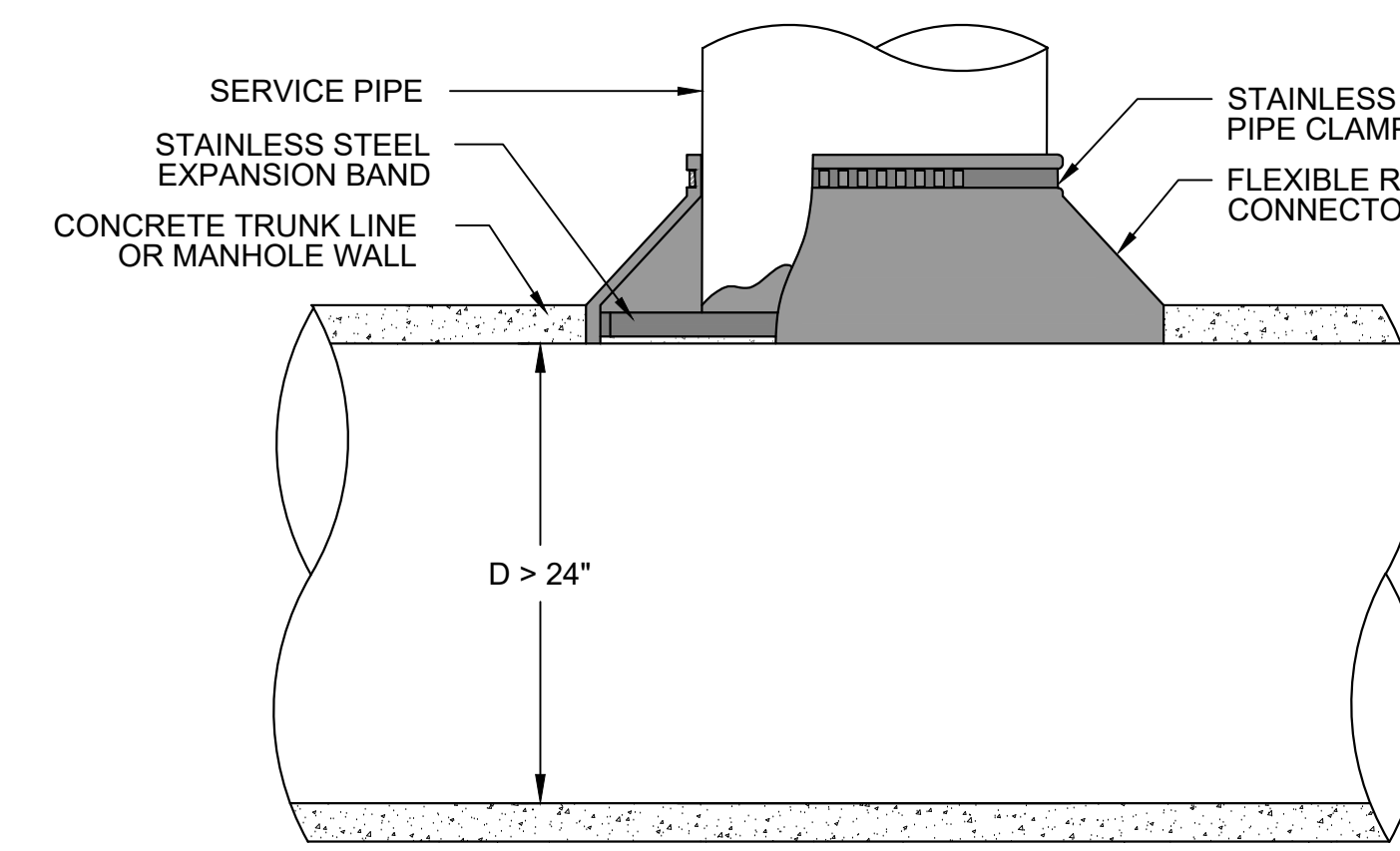


**7 PIPE TRENCH**  
SCALE: NTS



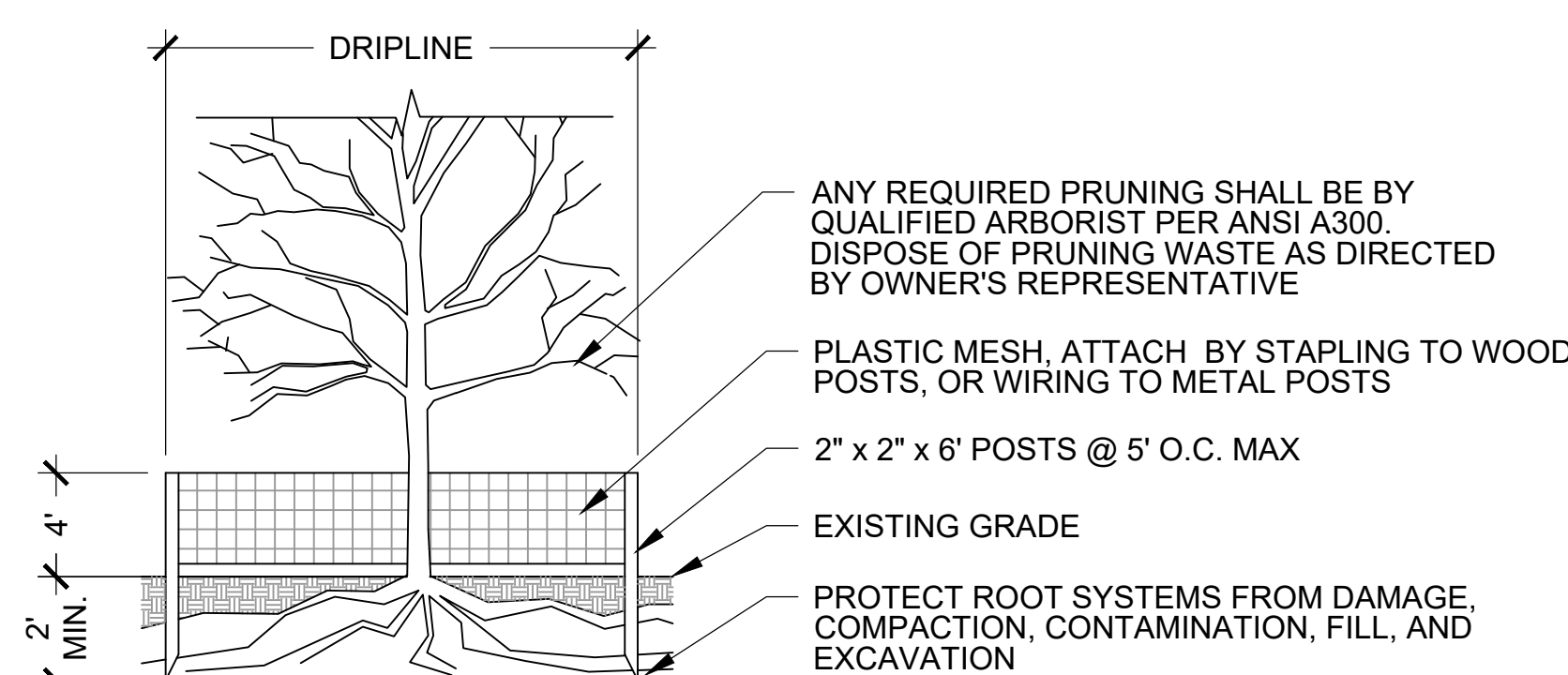
- NOTES:
- FRAME AND COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
  - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
  - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
  - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.

**6 DRAIN BASIN**  
SCALE: NTS



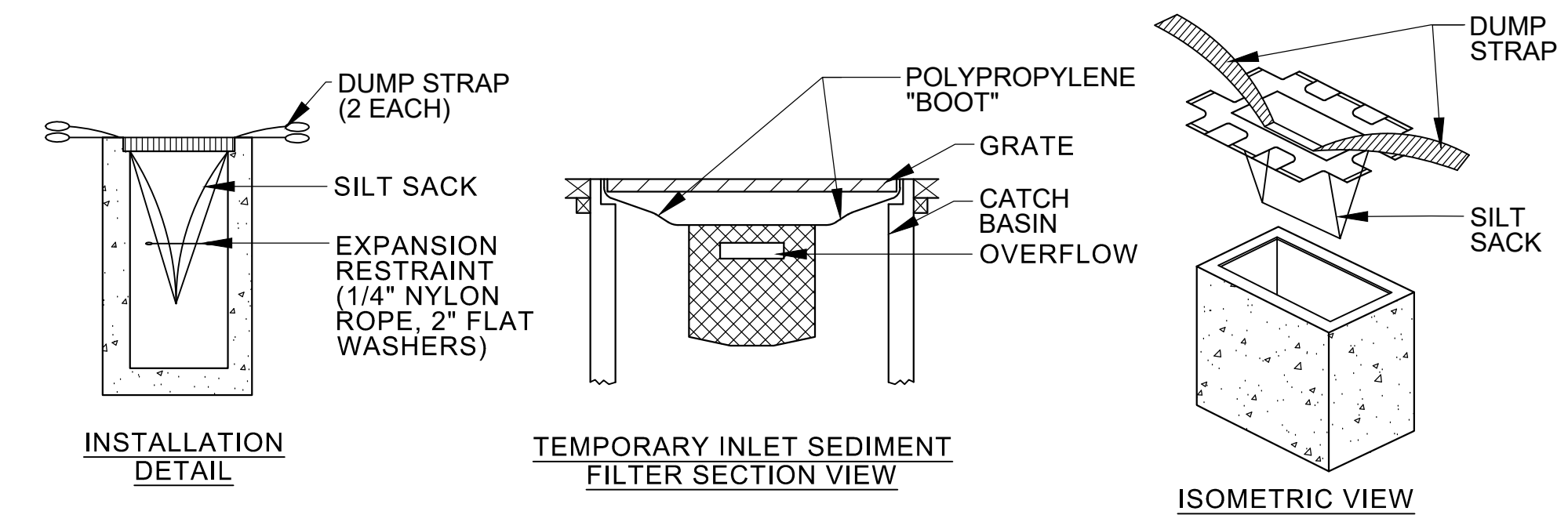
- NOTES:
- OPENING IN CONCRETE WALL SHALL BE CORED USING HIGH SPEED DIAMOND DRILL.
  - ALL METAL FIXTURES SHALL BE OF STAINLESS STEEL.
  - SERVICE LINE SHALL BE FLUSH WITH THE INSIDE OF THE CONCRETE PIPE OR WALL.
  - IF TRUNK LINE DIAMETER IS LESS THAN 24" THEN A SADDLE TYPE CONNECTION WILL BE USED.

**5 TYPICAL FIELD CONNECTION TO CONCRETE PIPE**  
SCALE: NTS



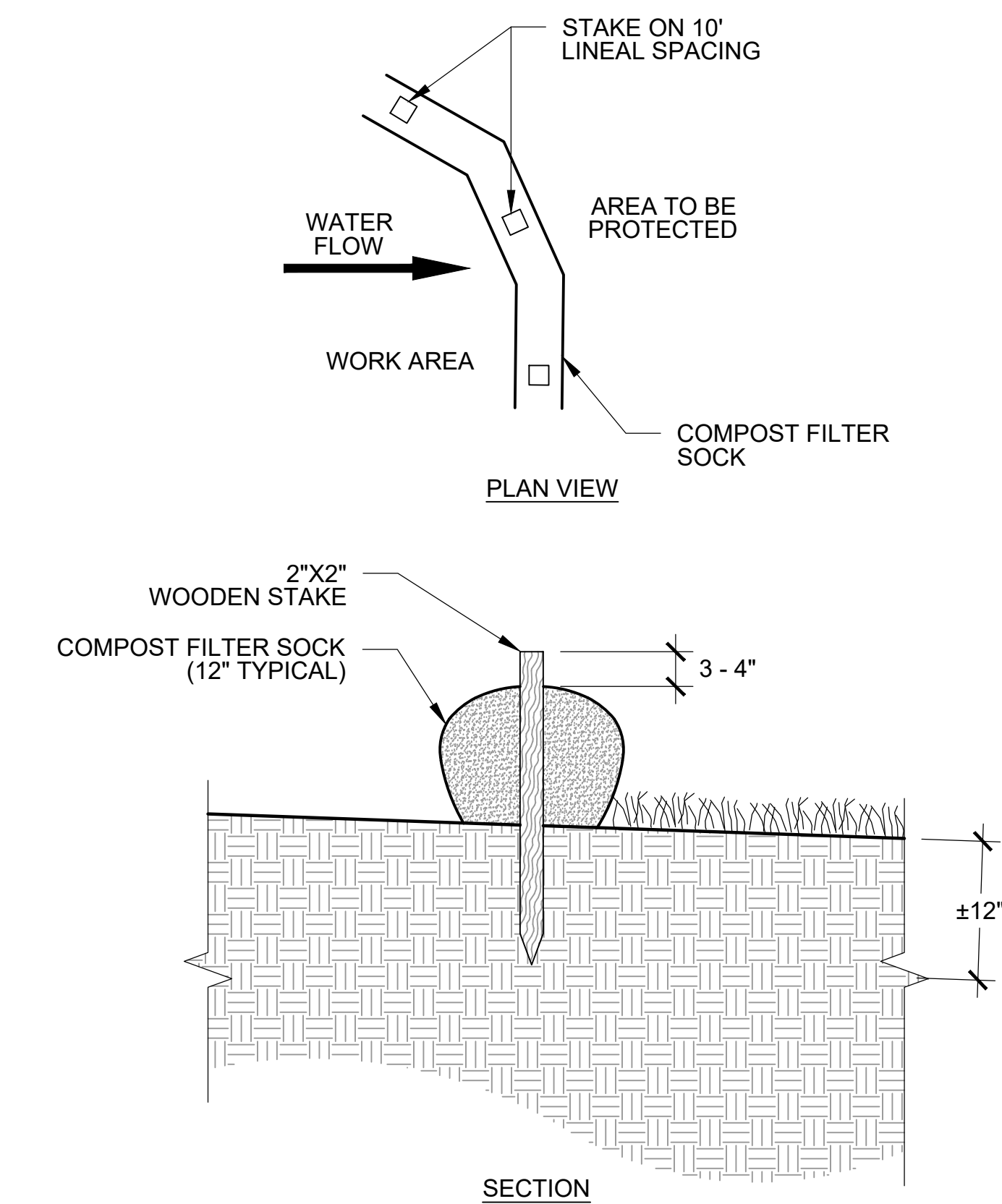
- NOTES:
- STATUS OF ALL TREES TO BE FIELD VERIFIED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
  - INSTALL TREE PROTECTION FENCE PRIOR TO START OF CONSTRUCTION AND REMOVE UPON COMPLETION PRIOR TO SEEDING.

**4 TREE PROTECTION FENCE**  
SCALE: NTS

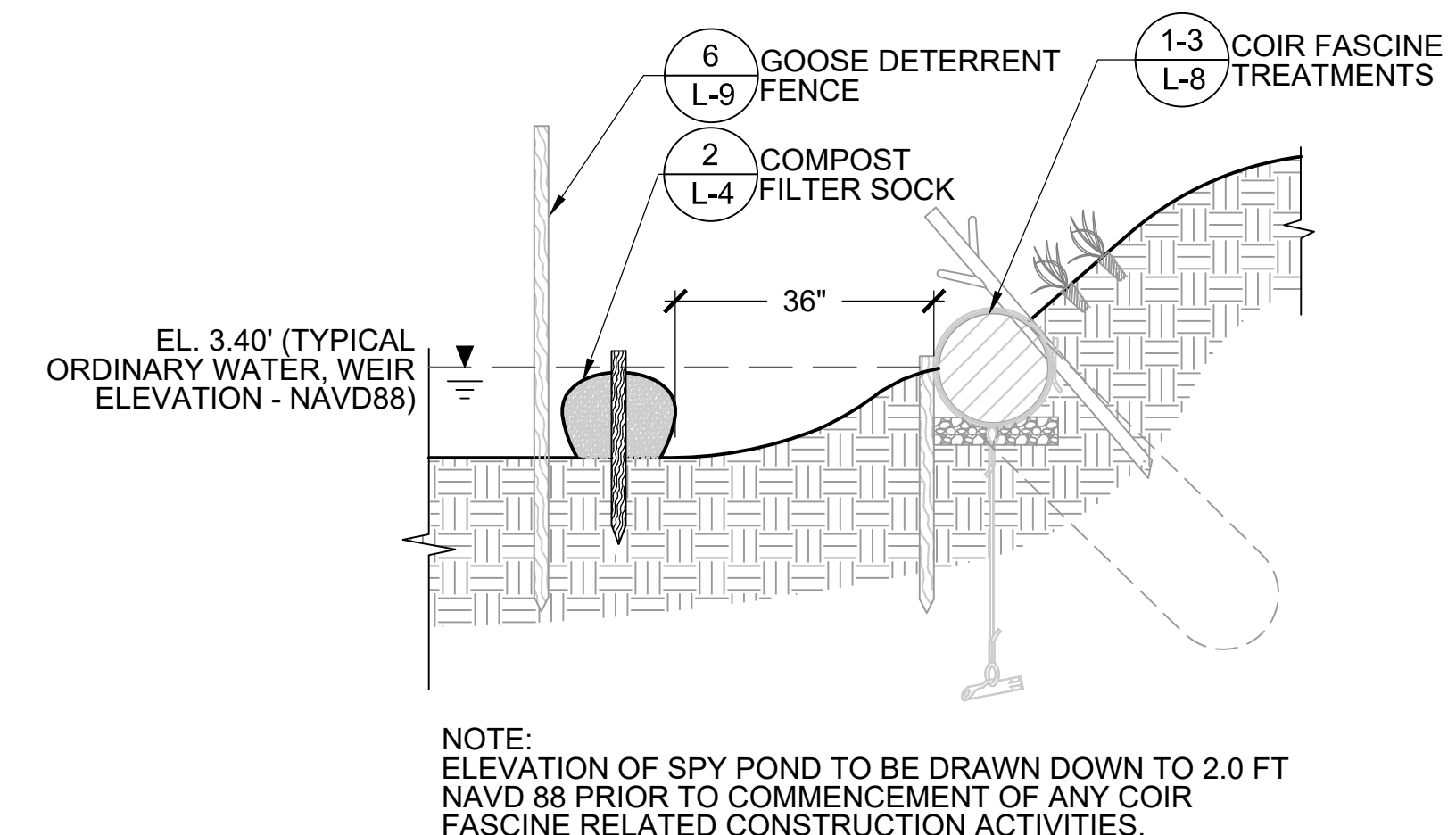


NOTE: MAINTAIN FILTER IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

**3 SILTSACK**  
SCALE: NTS

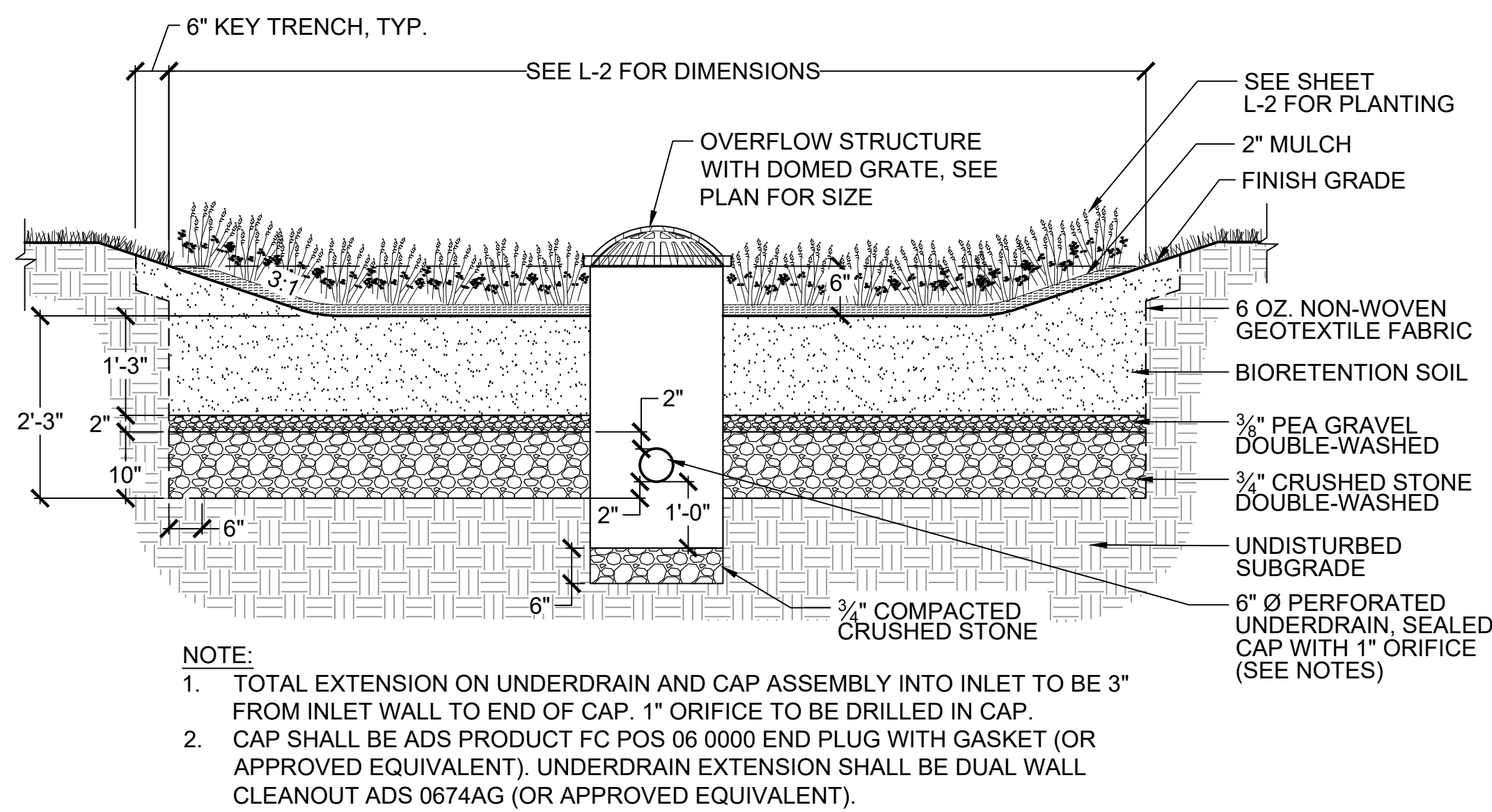


**2 COMPOST FILTER SOCK**  
SCALE: NTS

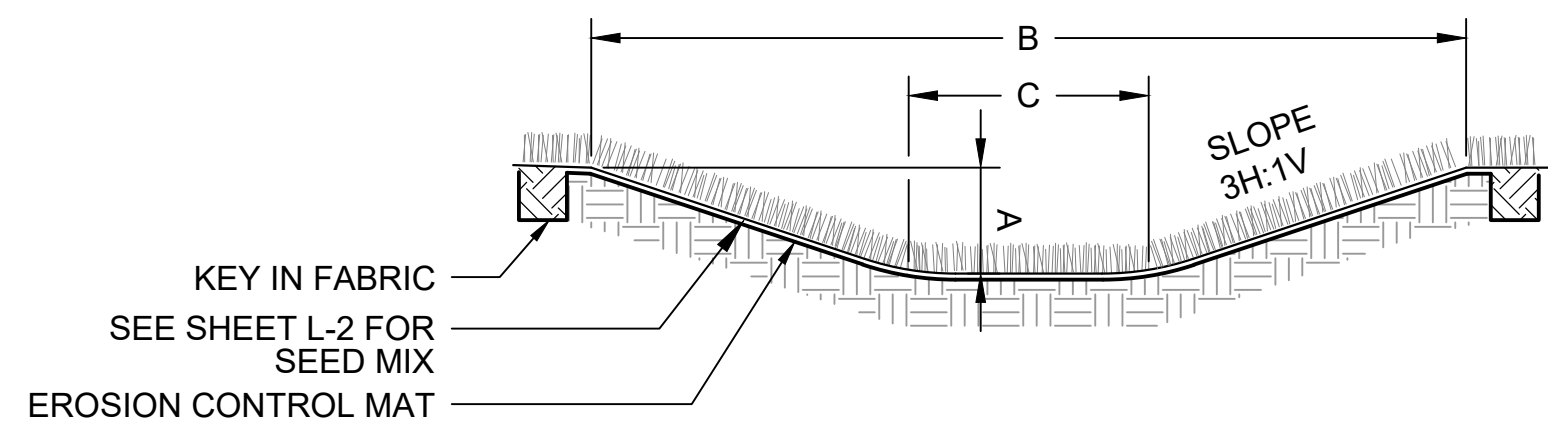


**1 COMPOST FILTER SOCK IN SPY POND**  
SCALE: NTS





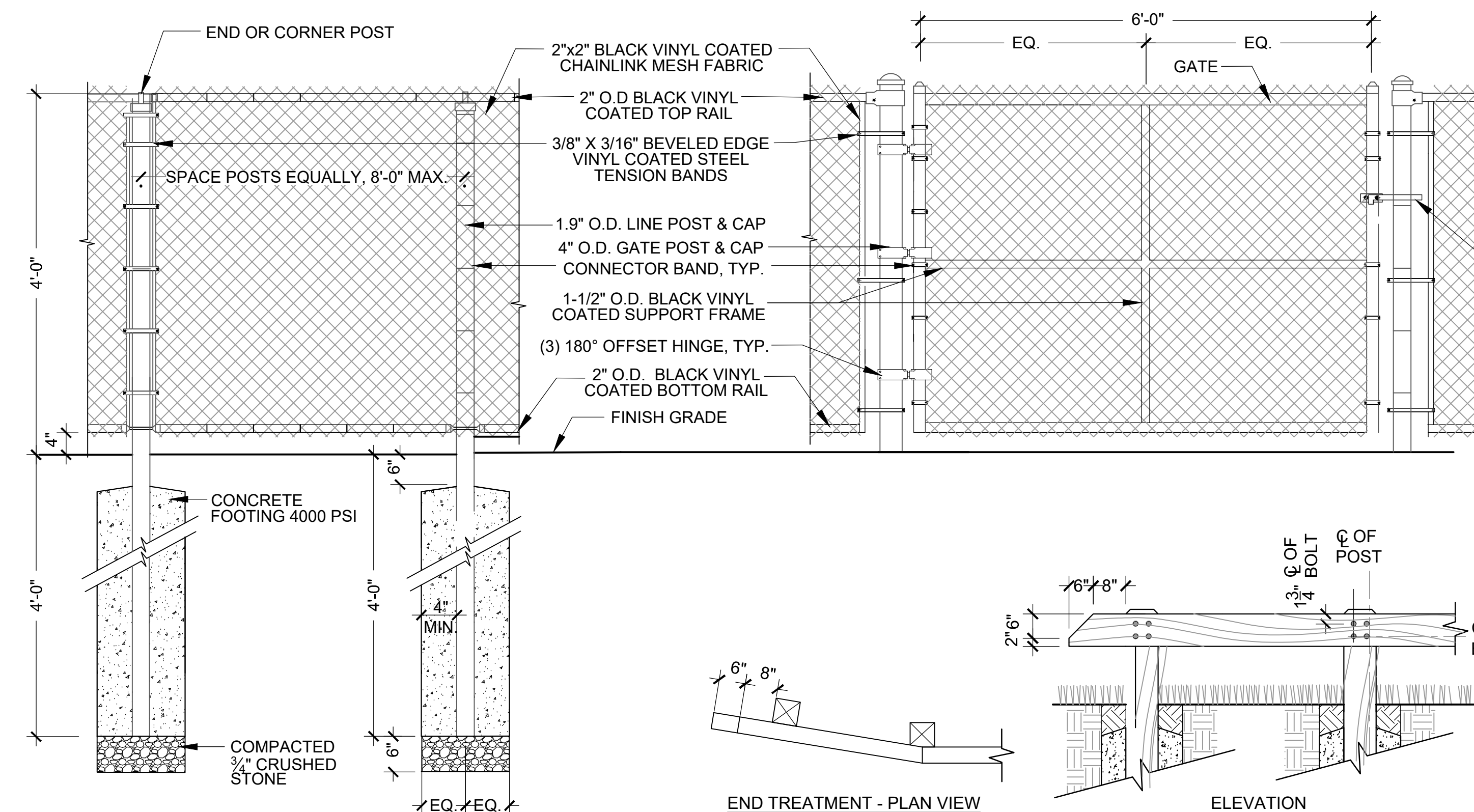
**10** BIORETENTION BASIN  
SCALE: NTS



- NOTE:  
1. SWALE LINING SHALL BE A BIODEGRADABLE EROSION CONTROL BLANKET SUCH AS BIONET® S150BN® OR EQUAL WITH A DESIGN PERMISSIBLE SHEAR STRESS UNVEGETATED VELOCITY OF 6 FT/S.  
2. SWALE SHALL BE VEGETATED PER PLANTING PLAN.

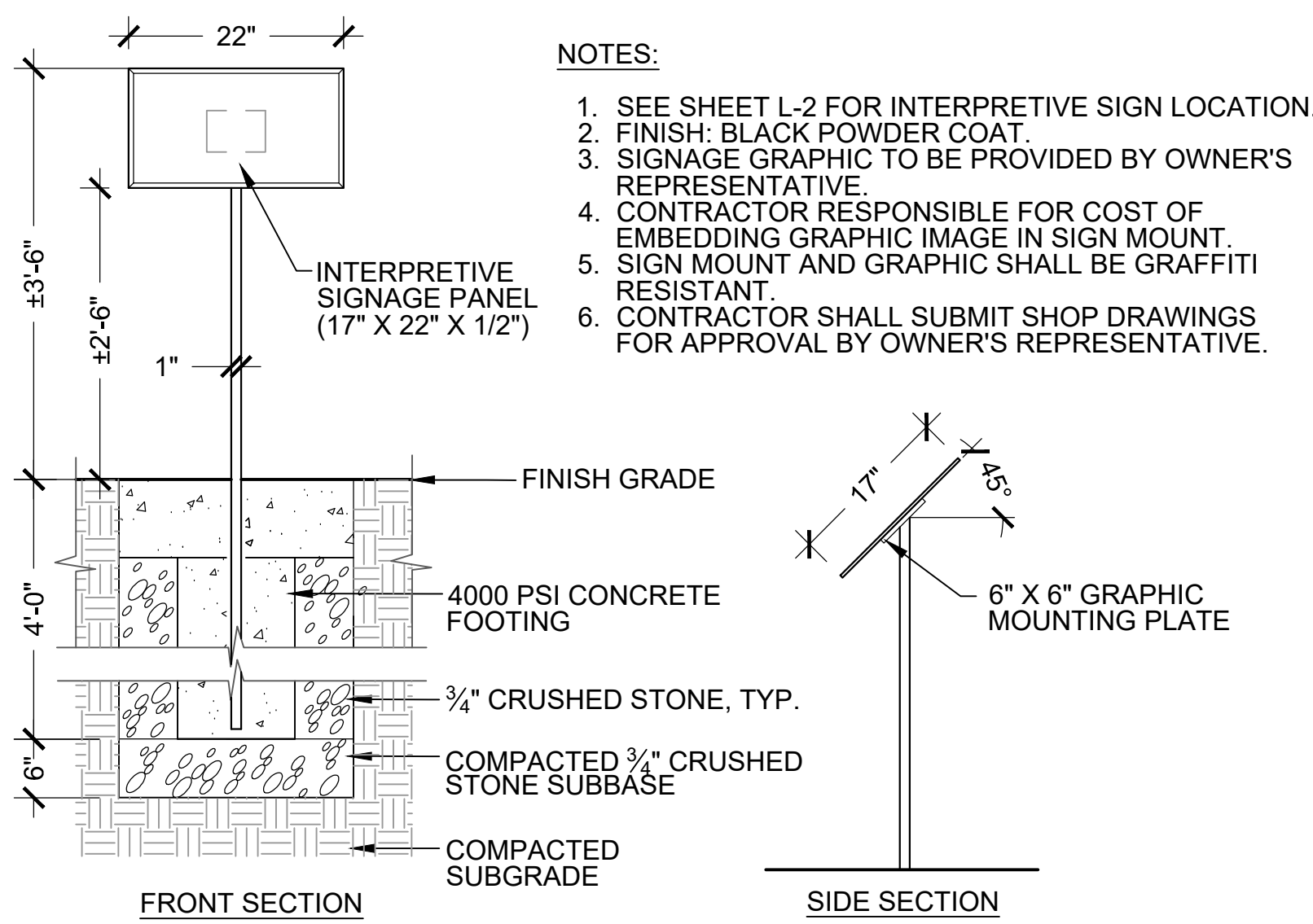
SWALE DESIGN SCHEDULE					
SWALE LOCATION	LENGTH (FT)	SLOPE (FT/FT)	A MIN. DEPTH (FT)	B MIN. TOP WIDTH (FT)	C BOTTOM WIDTH (FT)
SCANNELL FIELD	320	0.005	VARIABLES, SEE PLAN	VARIABLES, SEE PLAN	1.0
SPRING VALLEY	50	0.14	.5	6.0	3.0

**9** VEGETATED SWALE  
SCALE: NTS

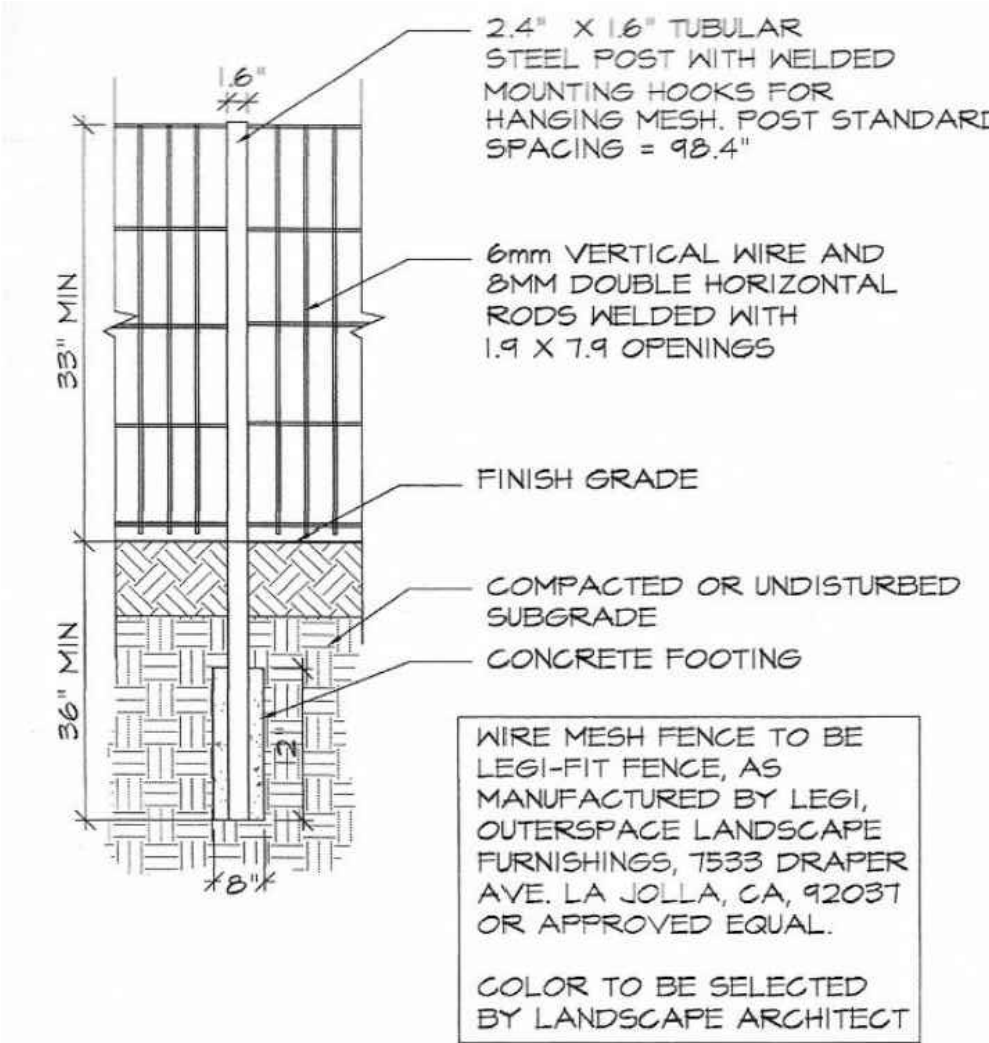


**8** CHAIN LINK FENCE AND GATE (4' HT.)  
SCALE: NTS

**5** TIMBER GUIDERAIL  
SCALE: NTS

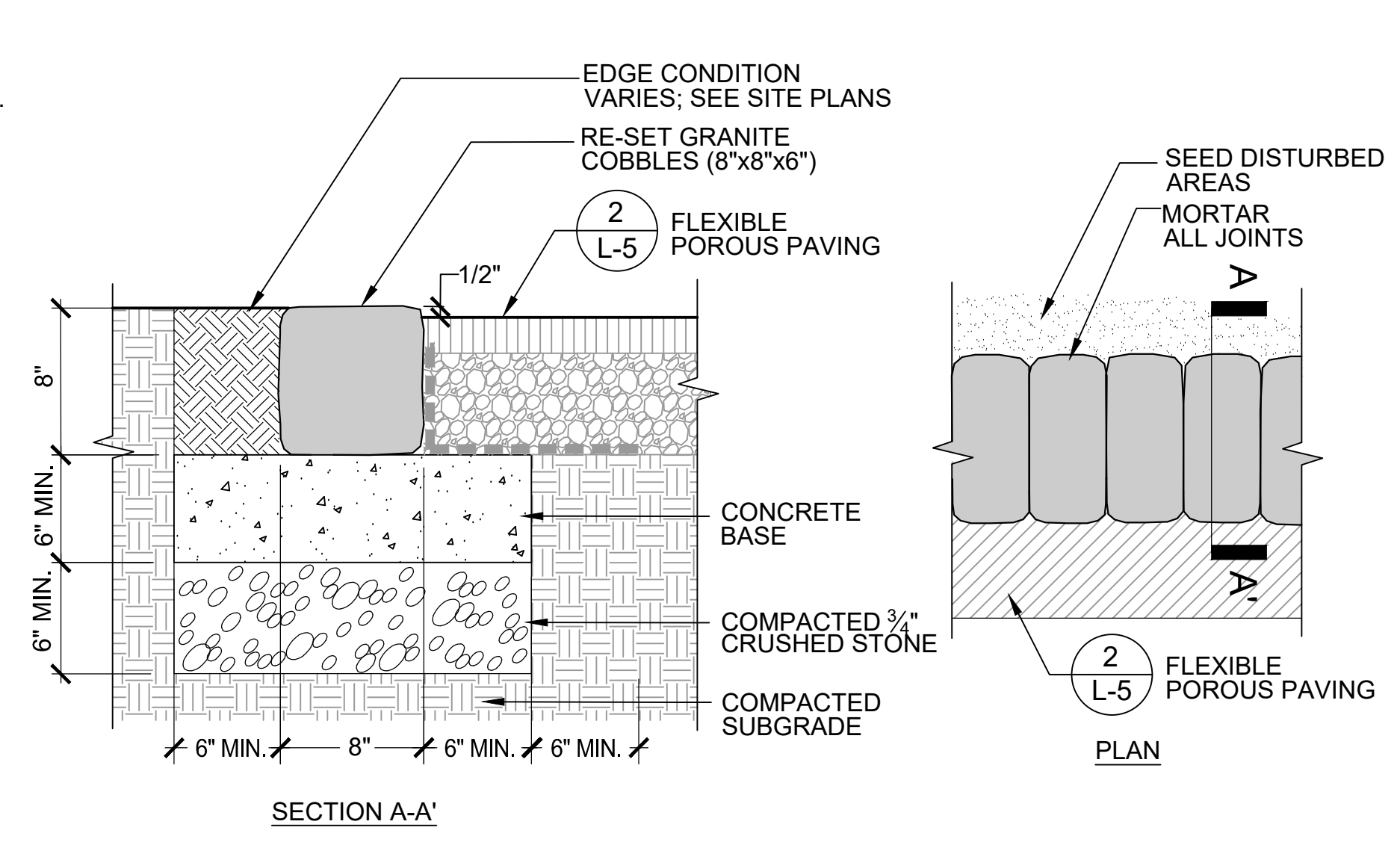


**7** INTERPRETIVE SIGN STRUCTURE  
SCALE: NTS

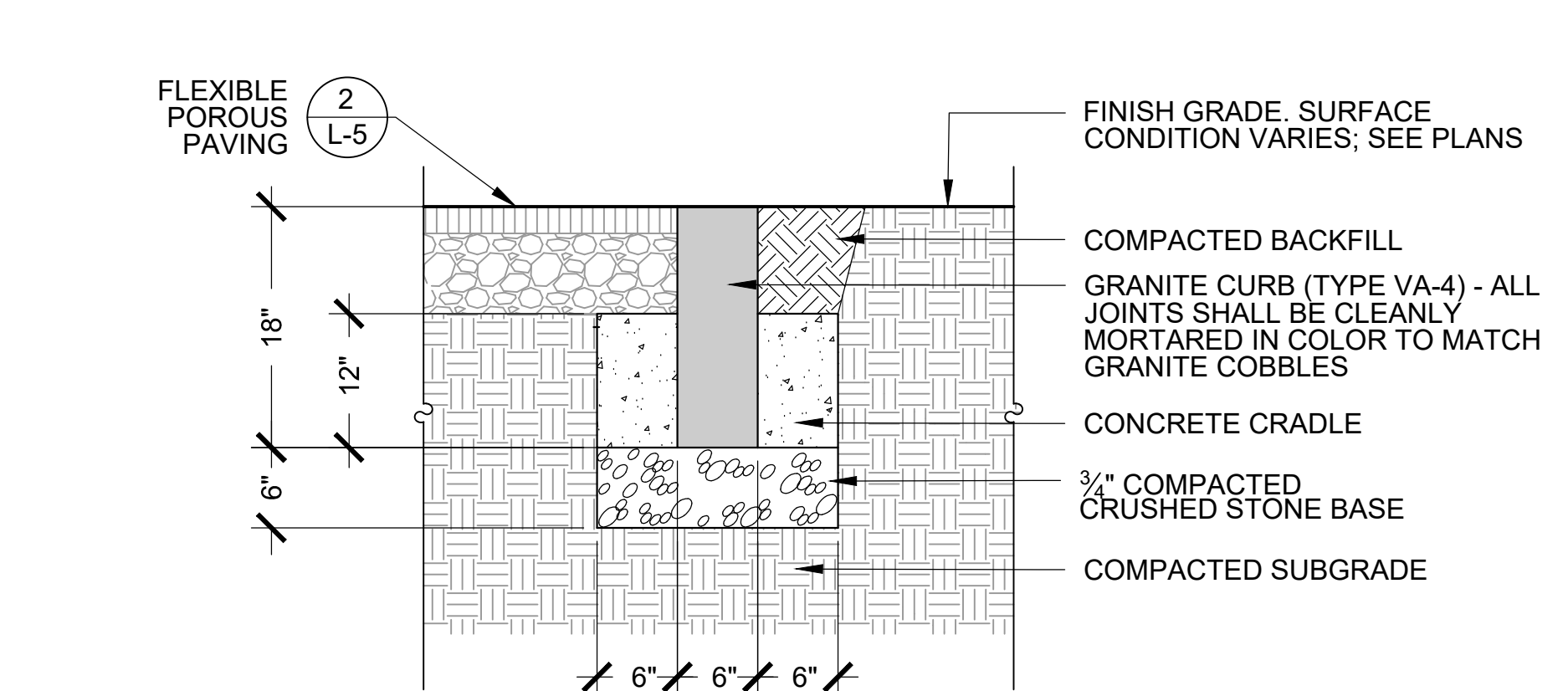


**6** PARK FENCE  
SCALE: NTS

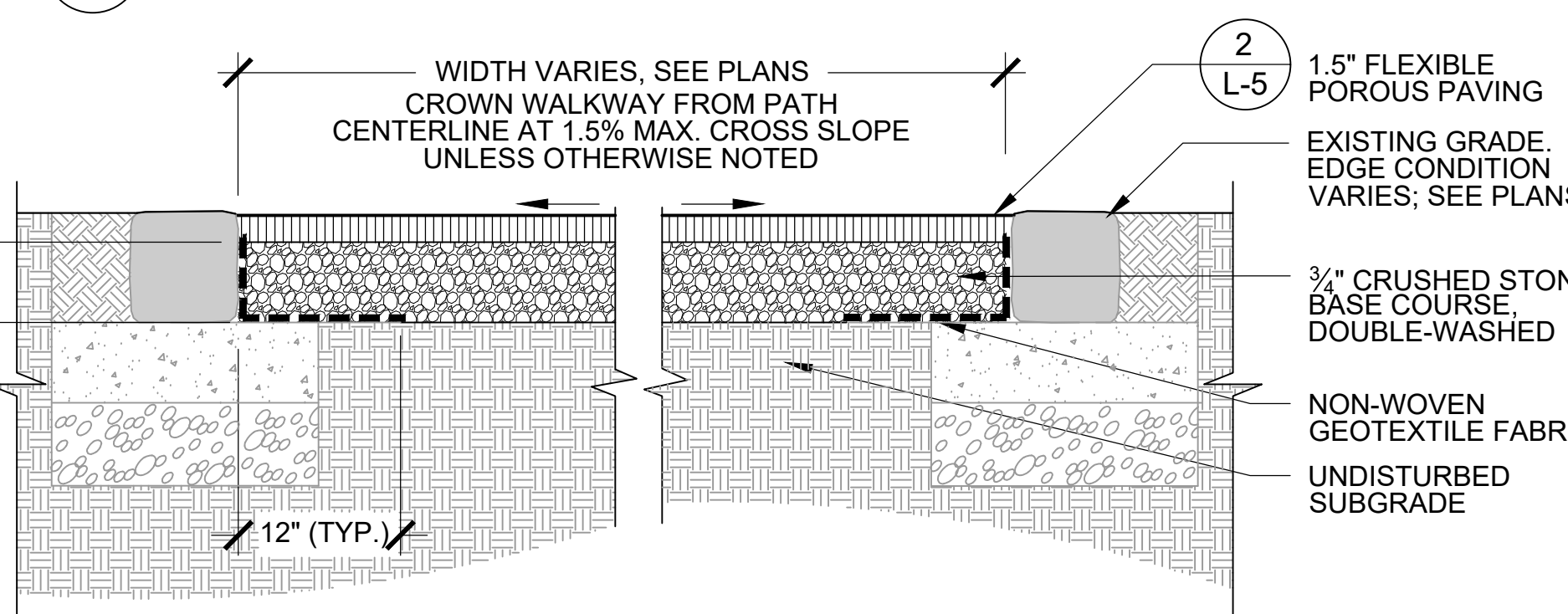
- NOTES:  
1. LOCKING MECHANISM TO BE PROVIDED BY CITY OF TOWN OF ARLINGTON DPW.  
2. GATE LOCATION SHALL BE APPROVED IN FIELD BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



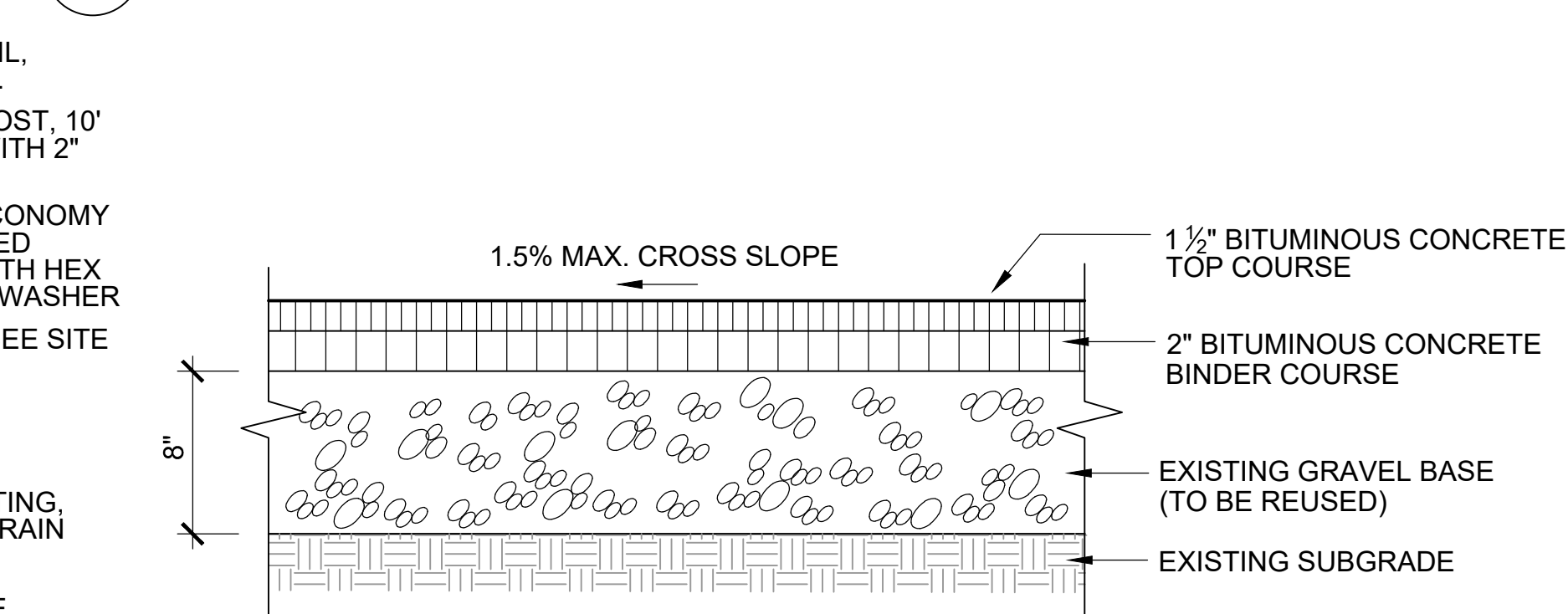
**4** RE-SET GRANITE COBBLES  
SCALE: NTS



**3** FLUSH GRANITE CURB  
SCALE: NTS



**2** FLEXIBLE POROUS PAVING  
SCALE: NTS



**1** BITUMINOUS CONCRETE PAVING  
SCALE: NTS

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



Project:  
**SPY POND**  
EDGE & EROSION CONTROL PROJECT  
ARLINGTON, MA  
BID DOCUMENTS

Job Number:  
H-355321  
Date:  
January 4, 2019  
Drawn By:  
A. Keel  
Designed By:  
H. Holmes, G. Johnson  
Reviewed By:  
H. Holmes, D. Bitsko

Revisions  
Number: Description: Date:

Sheet Title:

SITE DETAILS

Sheet No:

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



**SPY POND**  
EDGE & EROSION CONTROL PROJECT  
ARLINGTON, MA  
BID DOCUMENTS

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A. Keel

Designed By:

H. Holmes, G. Johnson

Reviewed By:

H. Holmes, D. Bitsko

Revisions

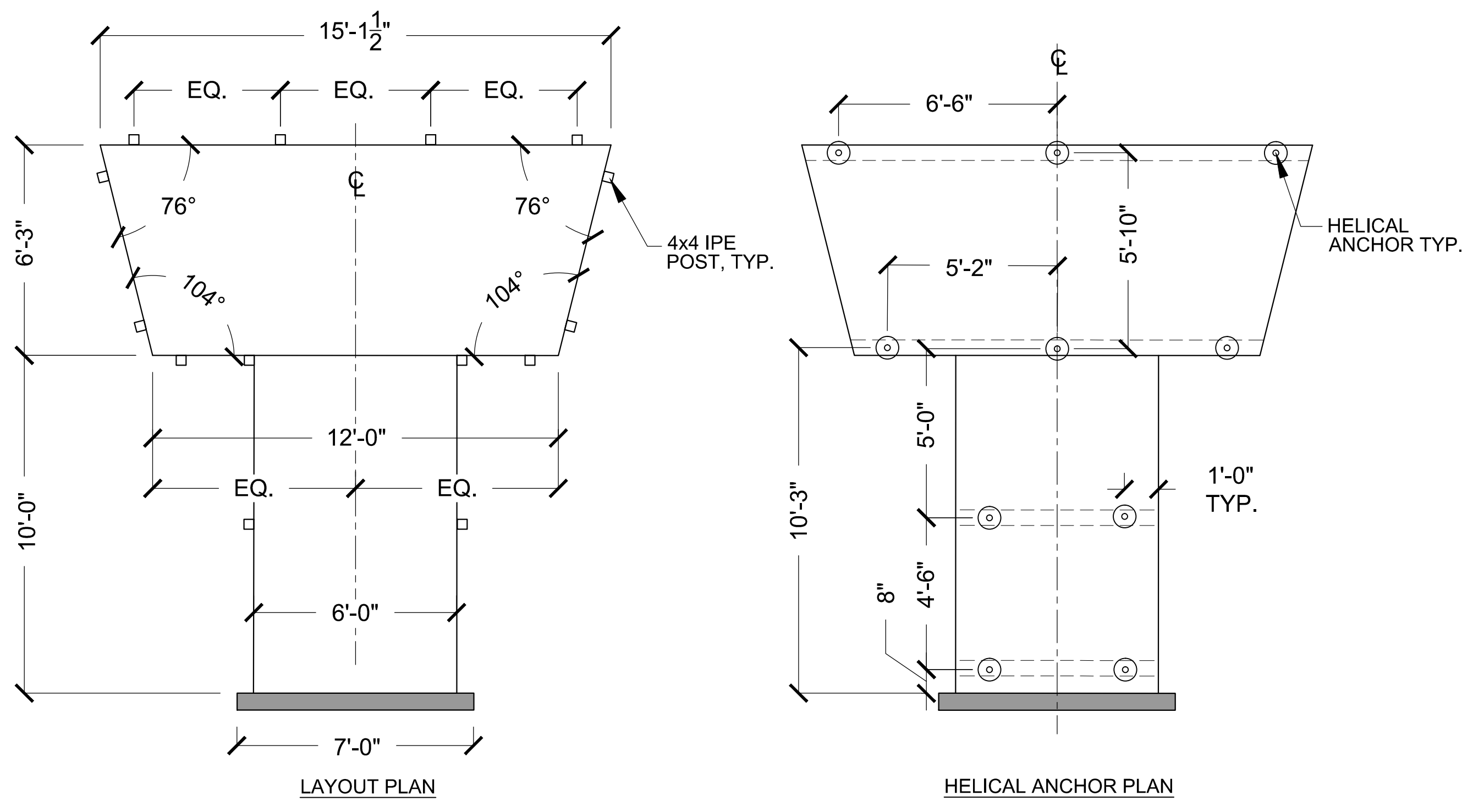
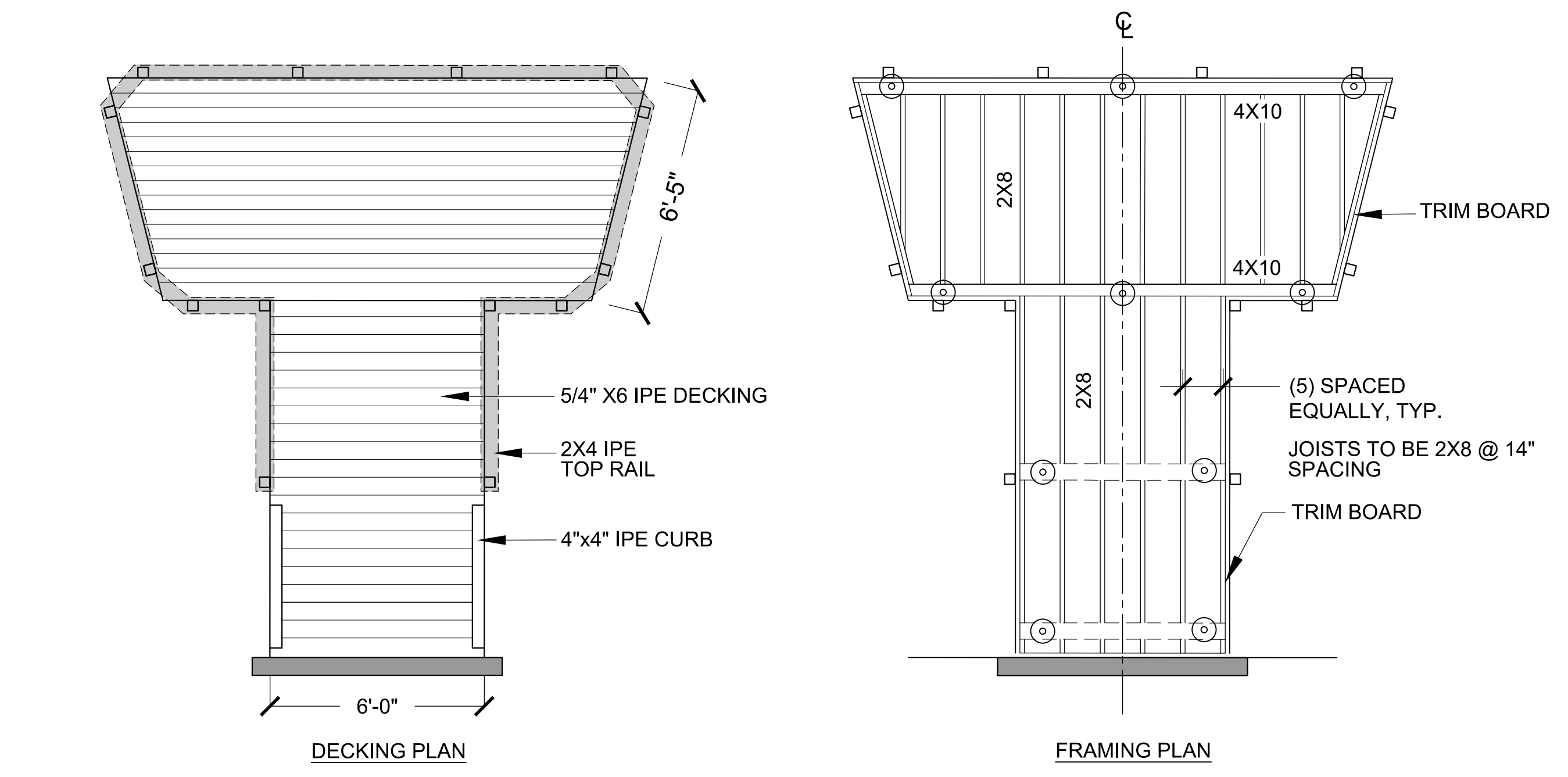
Number: Description: Date:

Sheet Title:

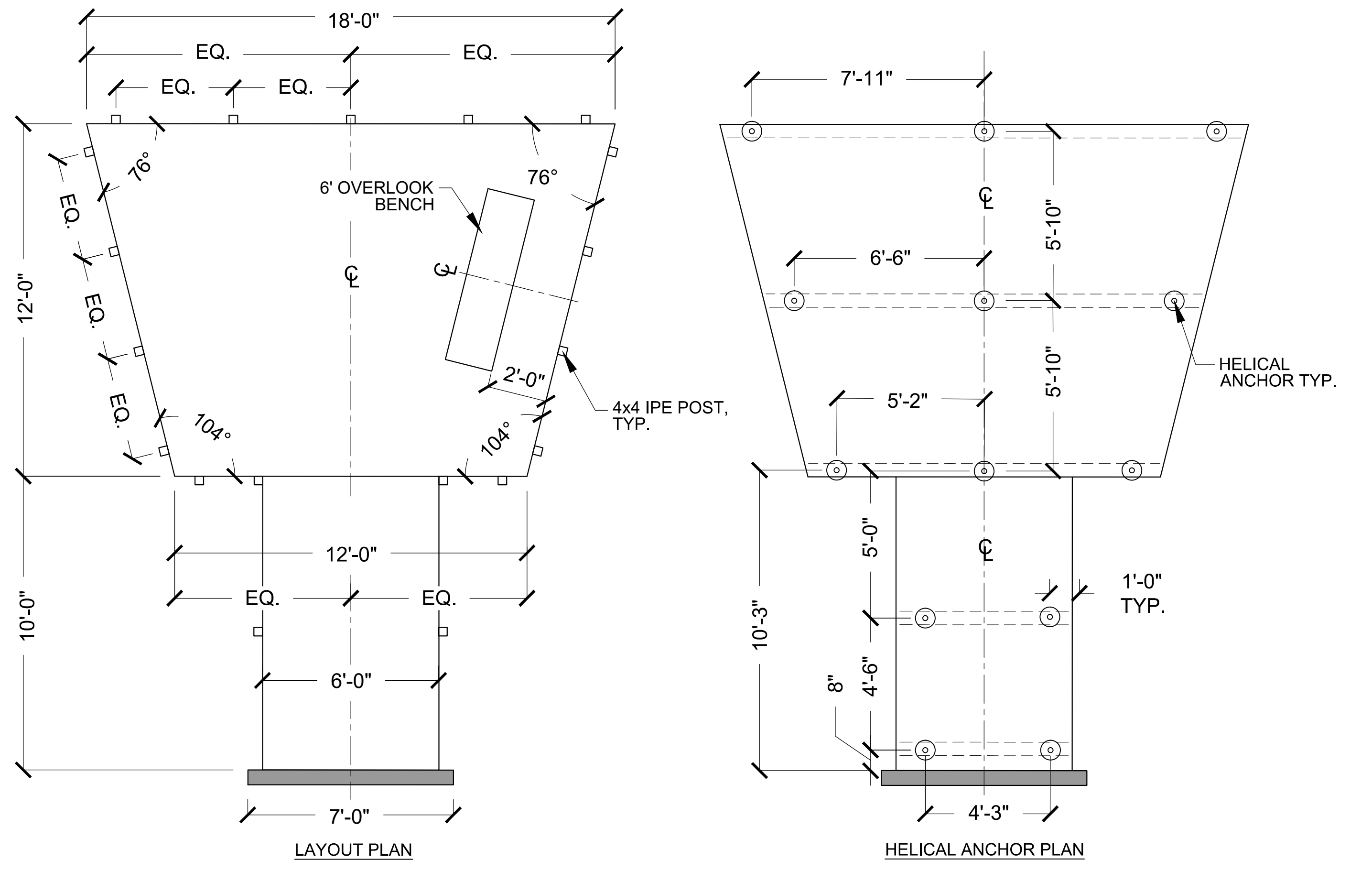
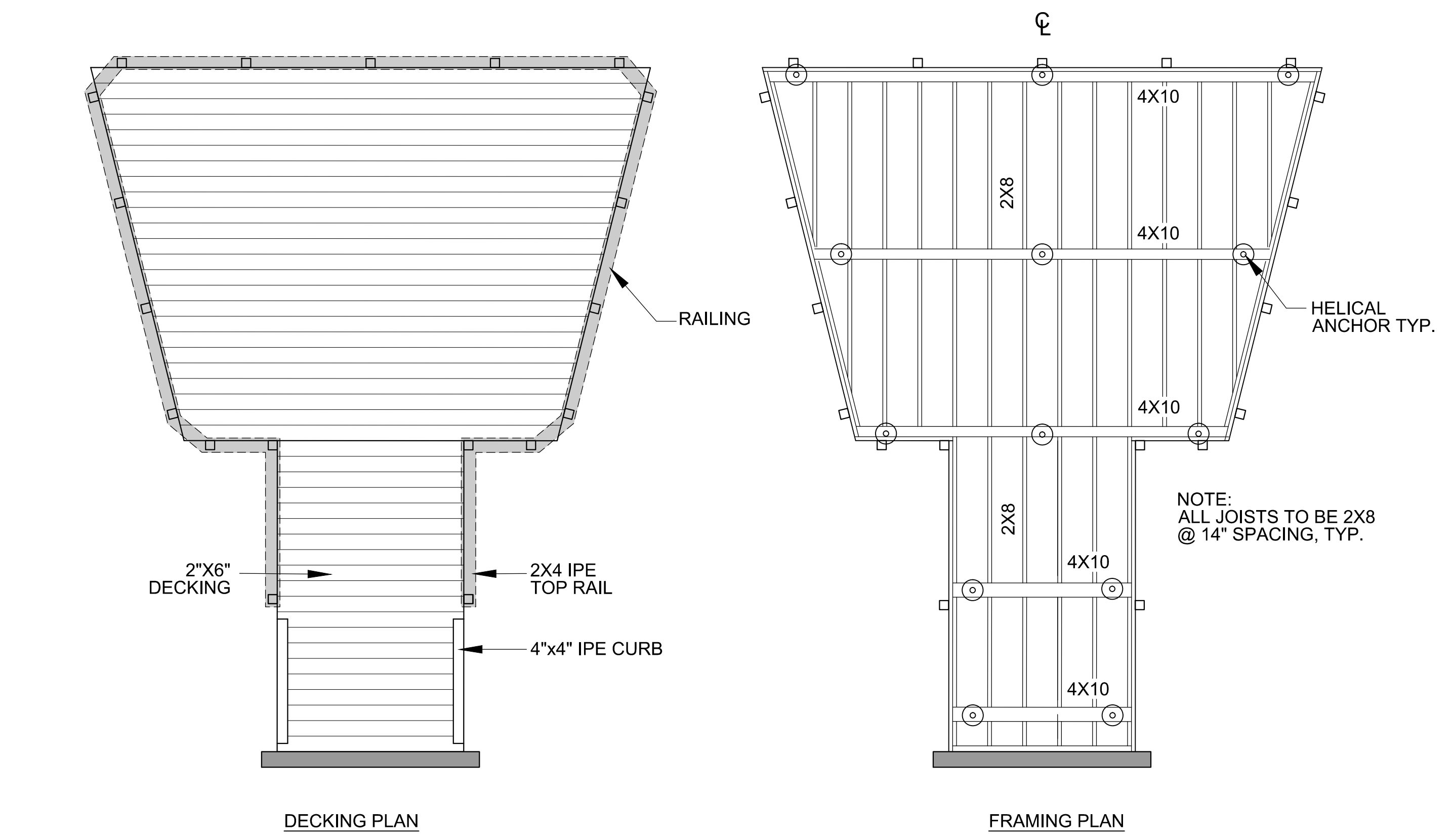
SITE DETAILS

Sheet No:

**L-6**



**2** **TIMBER OVERLOOK (NORTH)**  
SCALE: NTS

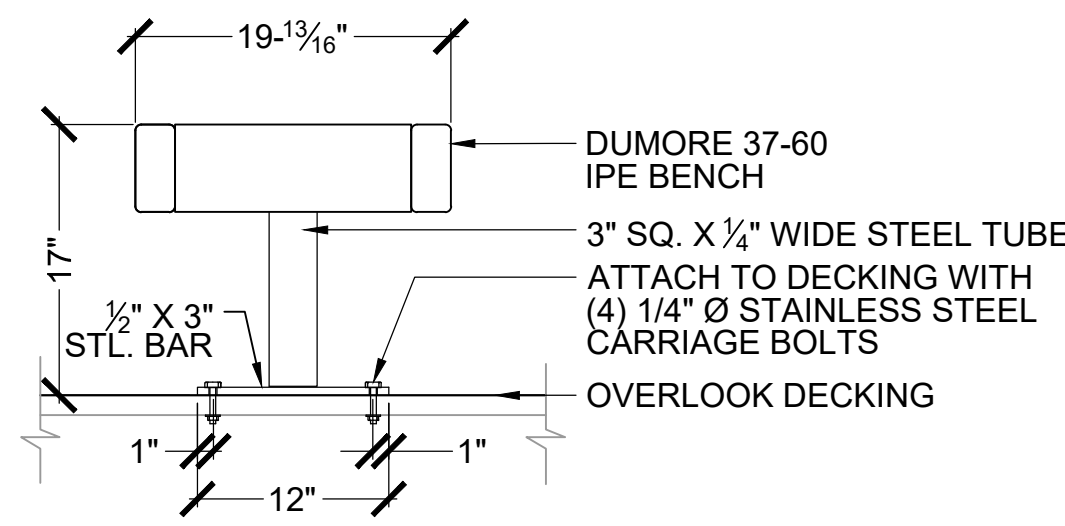
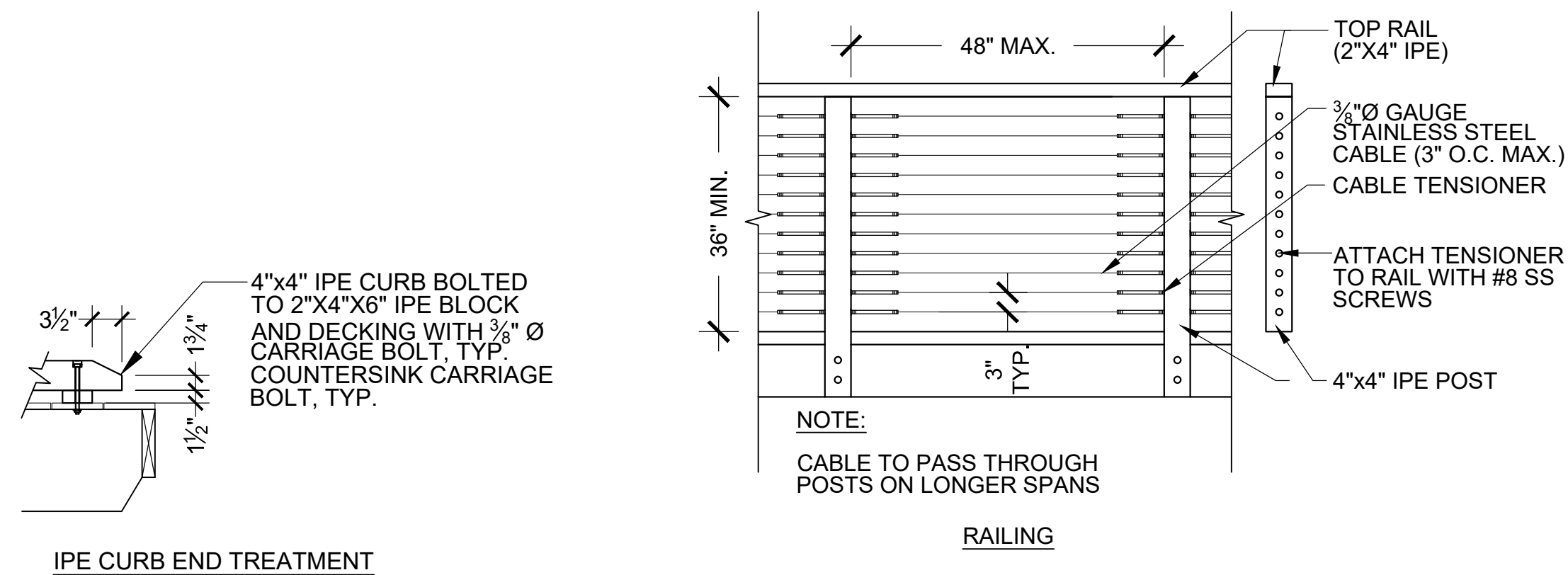


**1** **TIMBER OVERLOOK (SOUTH)**  
SCALE: NTS

**GENERAL NOTES:**

- CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE (ACI) CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, ACI 301, 315, AND 318. COLD WEATHER CONCRETING AS DEFINED BY ACI, SHALL BE IN ACCORDANCE WITH ACI 306R.
- CONCRETE MIX SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT. PER ACI-318, AT A MINIMUM CONCRETE SHALL MEET THE FOLLOWING CRITERIA:
  - MAXIMUM WATER TO CEMENT RATIO: 0.45
  - MINIMUM COMPRESSIVE STRENGTH: 4,500 PSI
  - AIR CONTENT PERCENT\*: 5.0 %

\*ASSUMING NOMINAL MAXIMUM AGGREGATE SIZE OF 3/4". ADJUST AIR CONTENT PER ACI TABLE 4.4.1 IS VARIES
- ALL REINFORCING STEEL SHALL BE CONTINUOUS NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. EMBEDDED ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR. 36.
- GRANITE CURB SHALL CONFORM TO THE REQUIREMENTS OF MASSDOT STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES M9.04.1 TYPE VA5. EACH CURB PIECE FOR EACH ABUTMENT SHALL BE OF SUFFICIENT LENGTH TO COVER THE ENTIRE WIDTH OF THE ELEVATED WALKWAY. ONLY 1 PIECE OF GRANITE SHALL BE USED FOR EACH ELEVATED WALKWAY ABUTMENT.
- ALL TIMBER HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL WHERE EXPOSED. JOIST HANGERS AND HARDWARE SHALL BE GALVANIZED. PROVIDE CONCEALED FLANGE JOIST HANGERS WHERE REQUIRED.
- PRESSURE TREATED 2X8 BLOCKING SHALL BE INSTALLED AS REQUIRED FOR INSTALLATION OF RAILING POSTS AND TYPICALLY IN A STAGGERED PATTERN AT THE MID-SPAN OF THE JOIST SPAN.
- 4X4 RAILING POST LOCATION MAY BE ADJUSTED AS REQUIRED TO ALLOW FOR INSTALLATION OF BLOCKING AND CONNECTION. RAILING POST SPACING SHALL NOT EXCEED 5'-0" O.C.
- DESIGN SERVICE AND STRENGTH LOADING IS PROVIDED IN TABLE 1 AND TABLE 2 OF DETAIL 1 ON THIS SHEET FOR THE DESIGN OF THE HELICAL ANCHORS.
- AXIAL AND HORIZONTAL LOADING SHALL ACT CONCURRENTLY FOR EACH LOAD CASE WHERE APPLICABLE.
- DECKING AND CURBS TO BE IPE AS SPECIFIED.
- JOISTS AND BEAMS TO BE PRESSURE TREATED.
- ALL WOOD DIMENSIONS ARE NOMINAL.
- CONNECTORS TO BE GALVANIZED SIMPSON-TIE OR APPROVED EQUAL.



**TABLE 1**

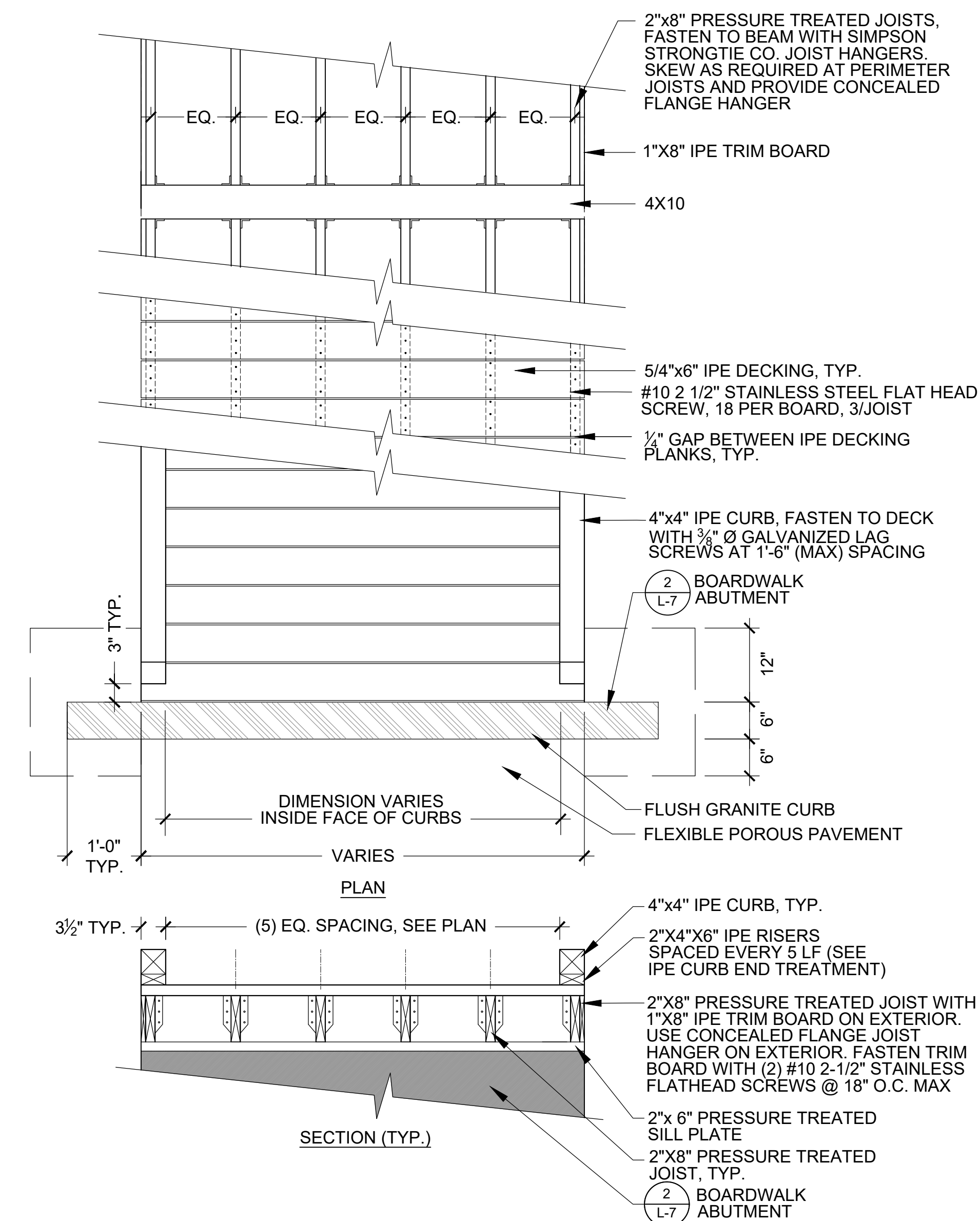
DESIGN LOADS PER HELICAL ANCHOR			
SOUTH OVERLOOK STRUCTURE			
LOAD CASE	LIMIT STATE	MAXIMUM AXIAL LOAD* (KIPS)	MAXIMUM SHEAR AT ANCHOR HEAD HEAD (KIPS)
1	SERVICE	-5.5	-
2	SERVICE	6.3	1.20
3	STRENGTH	-7.7	-
4	STRENGTH	10.5	2.00

\* - INDICATES UPLIFT CONDITION

**TABLE 2**

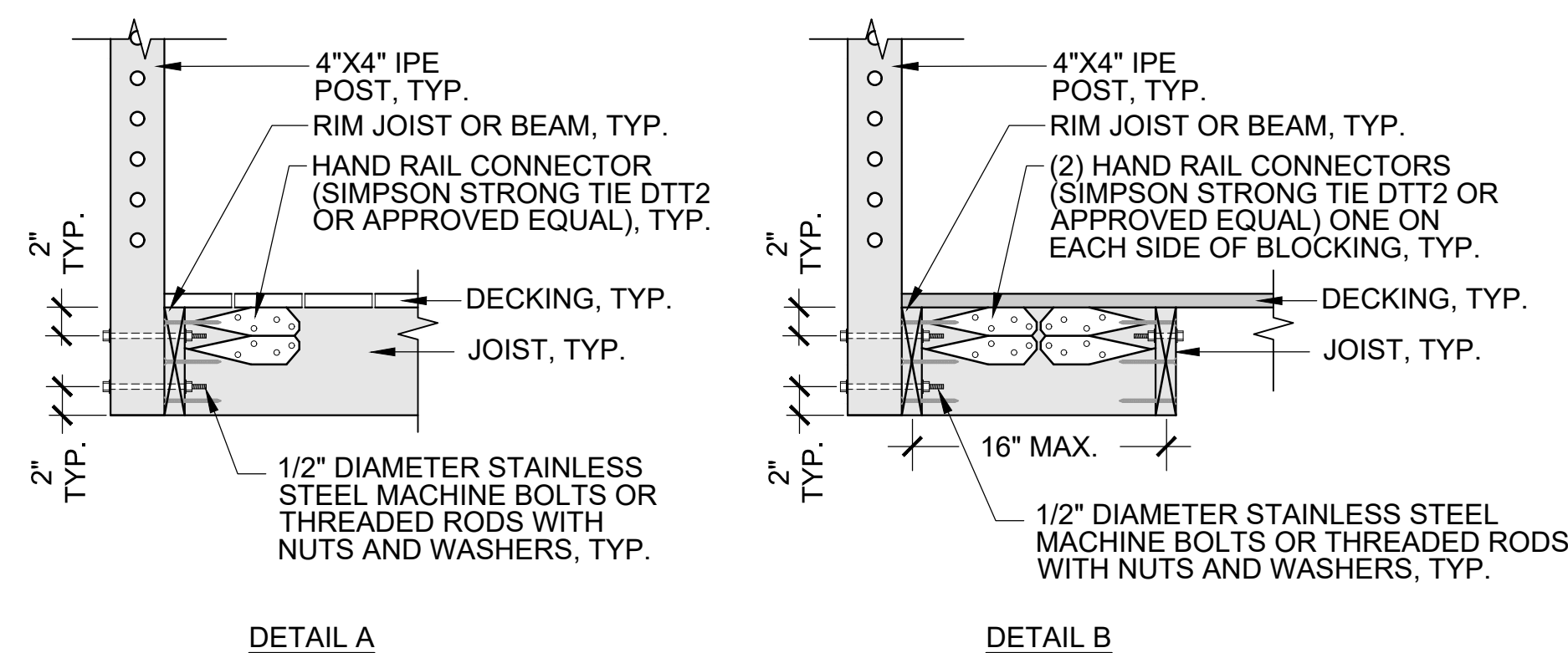
DESIGN LOADS PER HELICAL ANCHOR			
NORTH OVERLOOK STRUCTURE			
LOAD CASE	LIMIT STATE	MAXIMUM AXIAL LOAD* (KIPS)	MAXIMUM SHEAR AT ANCHOR HEAD HEAD (KIPS)
1	SERVICE	-3.7	-
2	SERVICE	3.9	0.75
3	STRENGTH	-4.8	-
4	STRENGTH	6.5	1.20

\* - INDICATES UPLIFT CONDITION



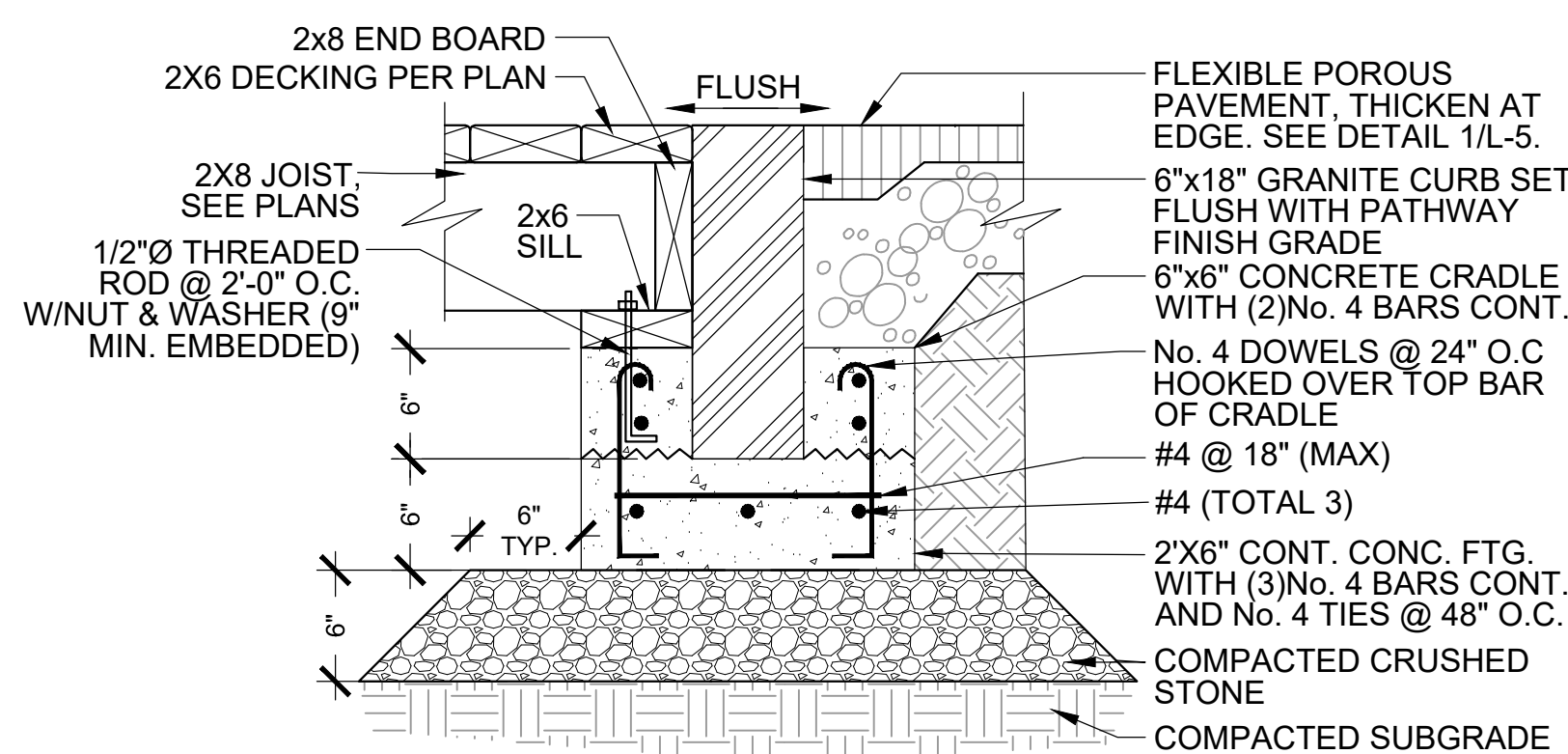
**4 6' TIMBER BENCH (SOUTH OVERLOOK)**

SCALE: NTS



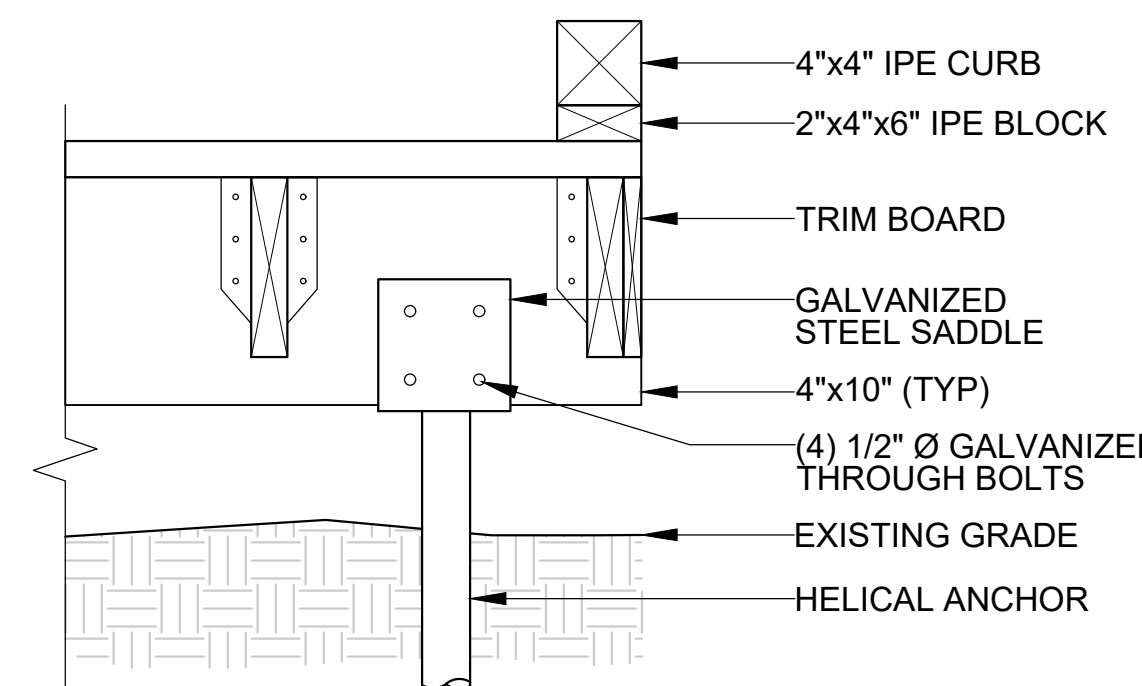
**3 4"X4" IPE POST CONNECTION**

SCALE: NTS



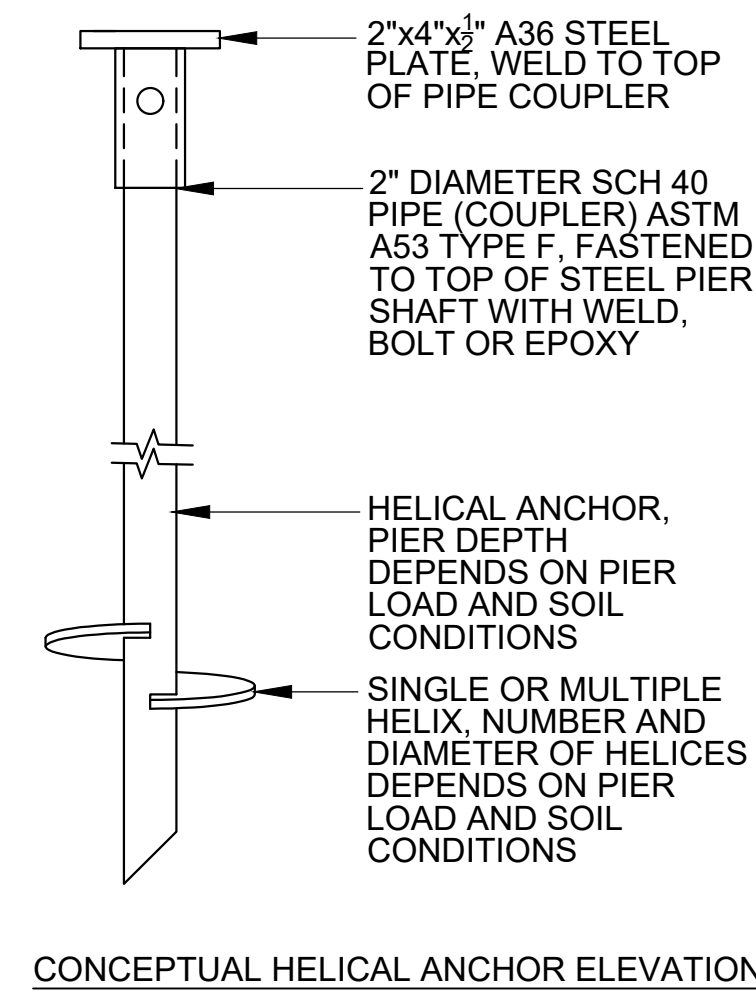
**2 BOARDWALK ABUTMENT**

SCALE: NTS



**1 HELICAL ANCHOR**

SCALE: NTS



**5 BOARDWALK STRUCTURE**

SCALE: NTS

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



**SPY POND**  
**EDGE & EROSION CONTROL PROJECT**  
 ARLINGTON, MA  
**BID DOCUMENTS**

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A. Keel

Designed By:

H. Holmes, G. Johnson

Reviewed By:

H. Holmes, D. Bitsko

Revisions

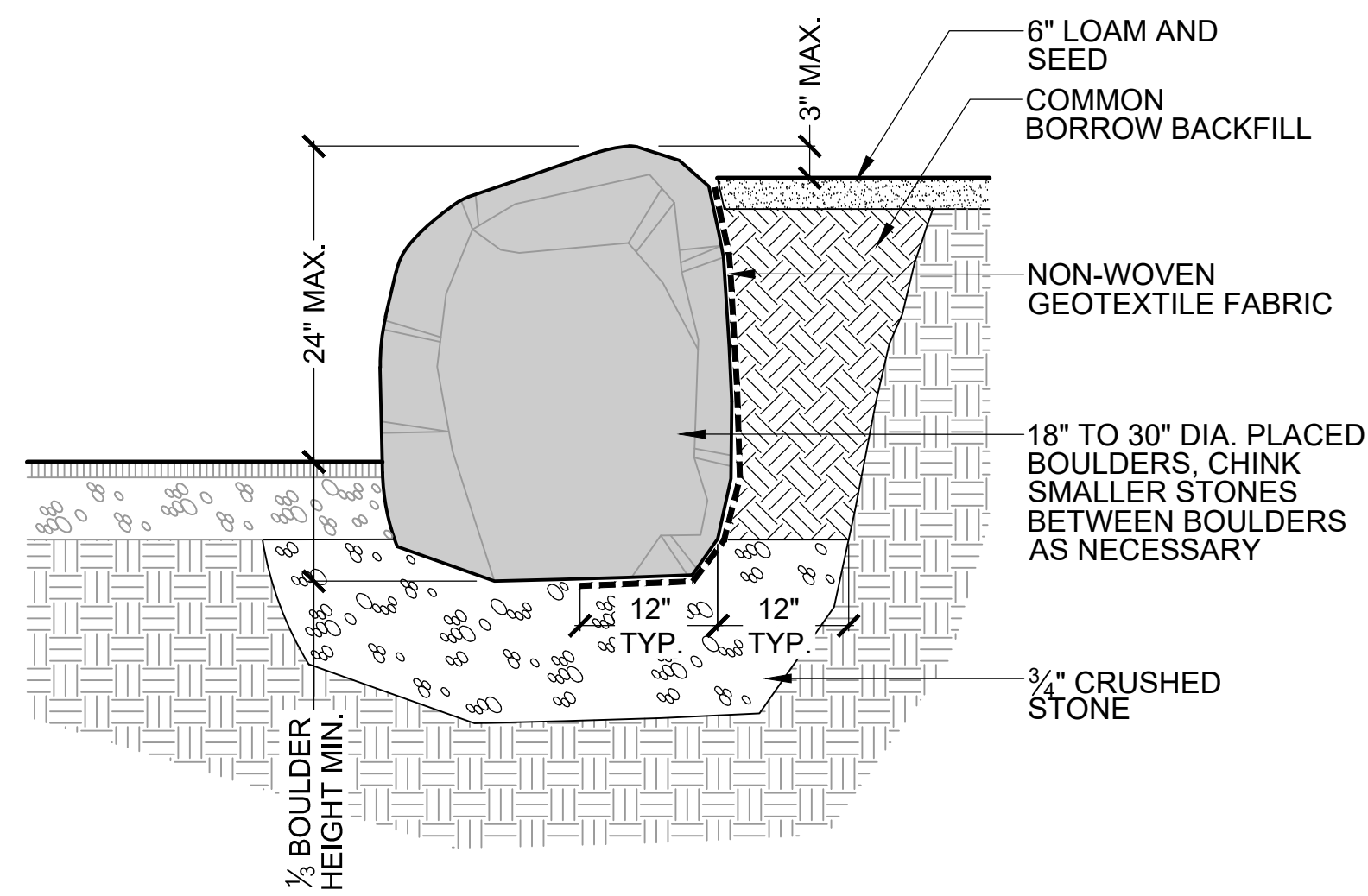
Number: Description: Date:

Sheet Title:

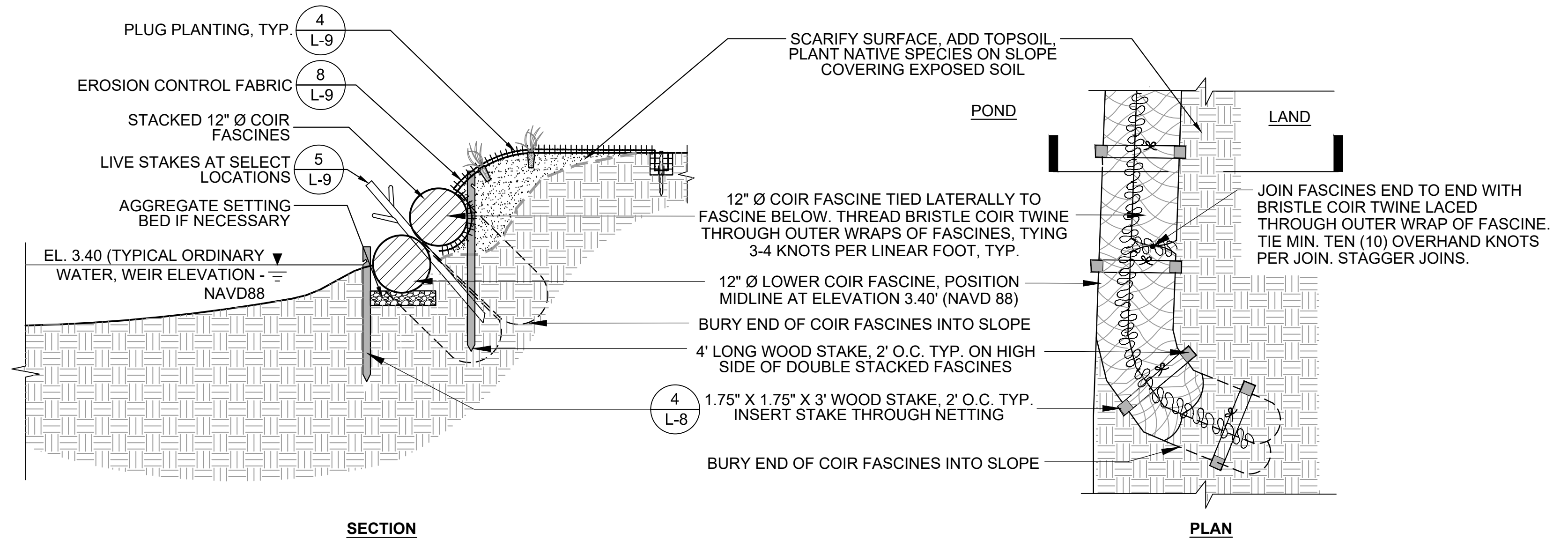
SITE DETAILS

Sheet No:

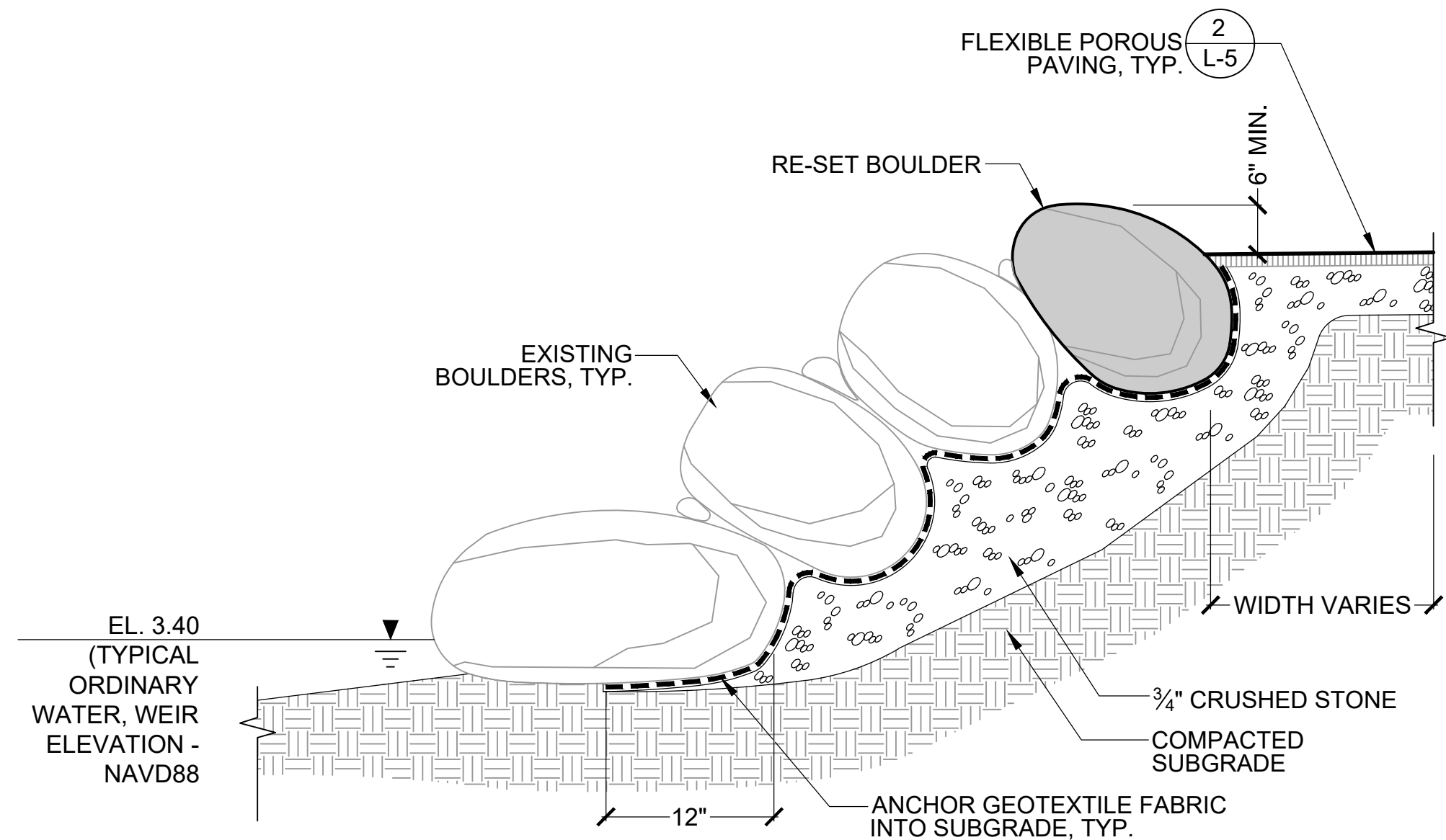
**L-7**



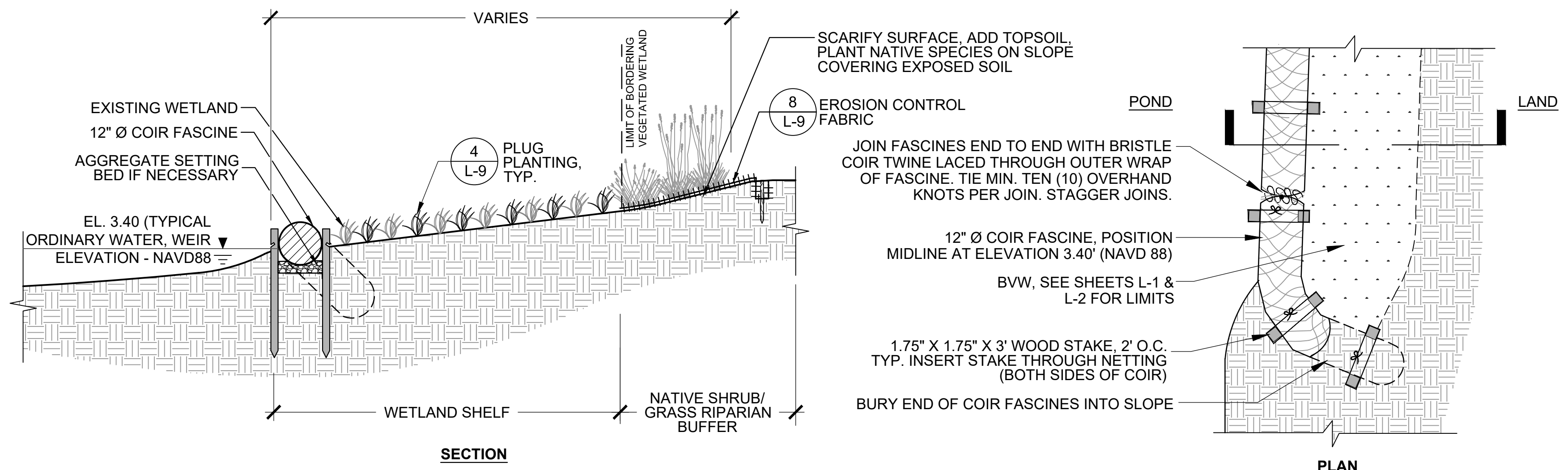
**6 BOULDER RETAINING WALL - SCANNELL FIELD**  
SCALE: NTS



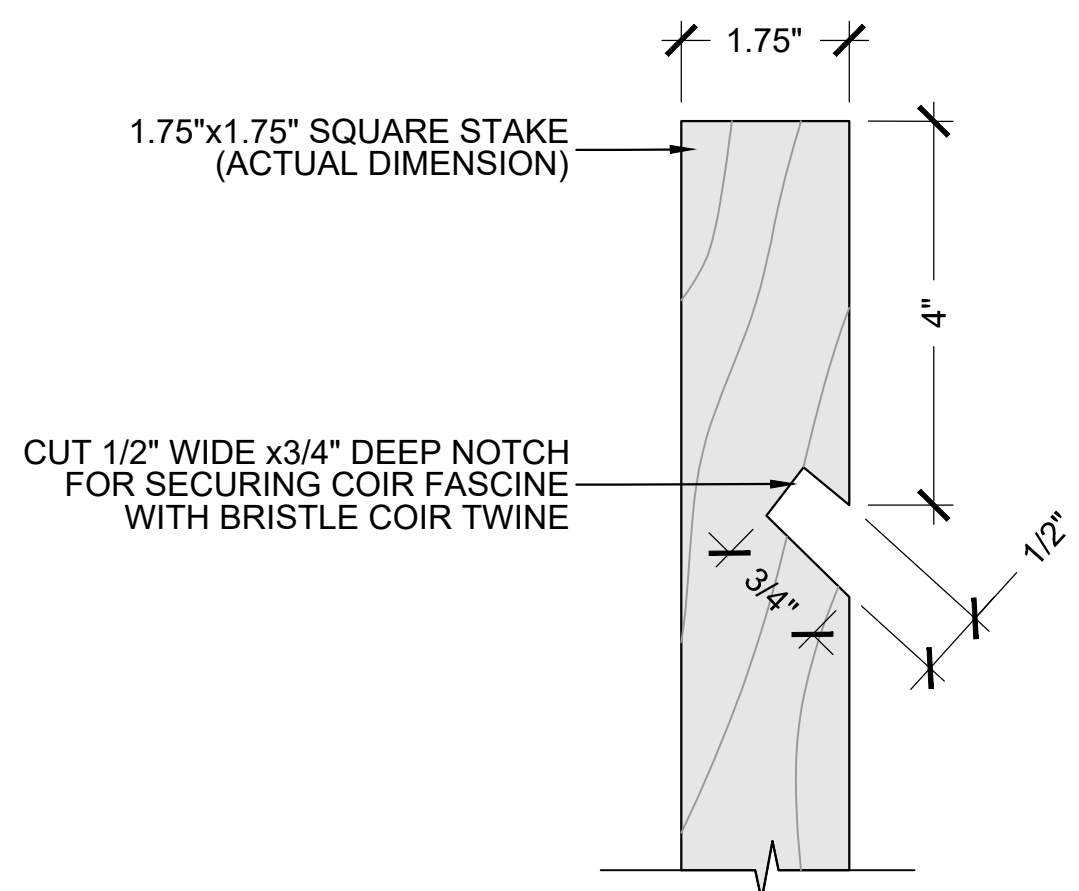
**3 TREATMENT C: STACKED COIR FASCINE**  
SCALE: NTS



**5 STONE SLOPE - SCANNELL FIELD**  
SCALE: NTS



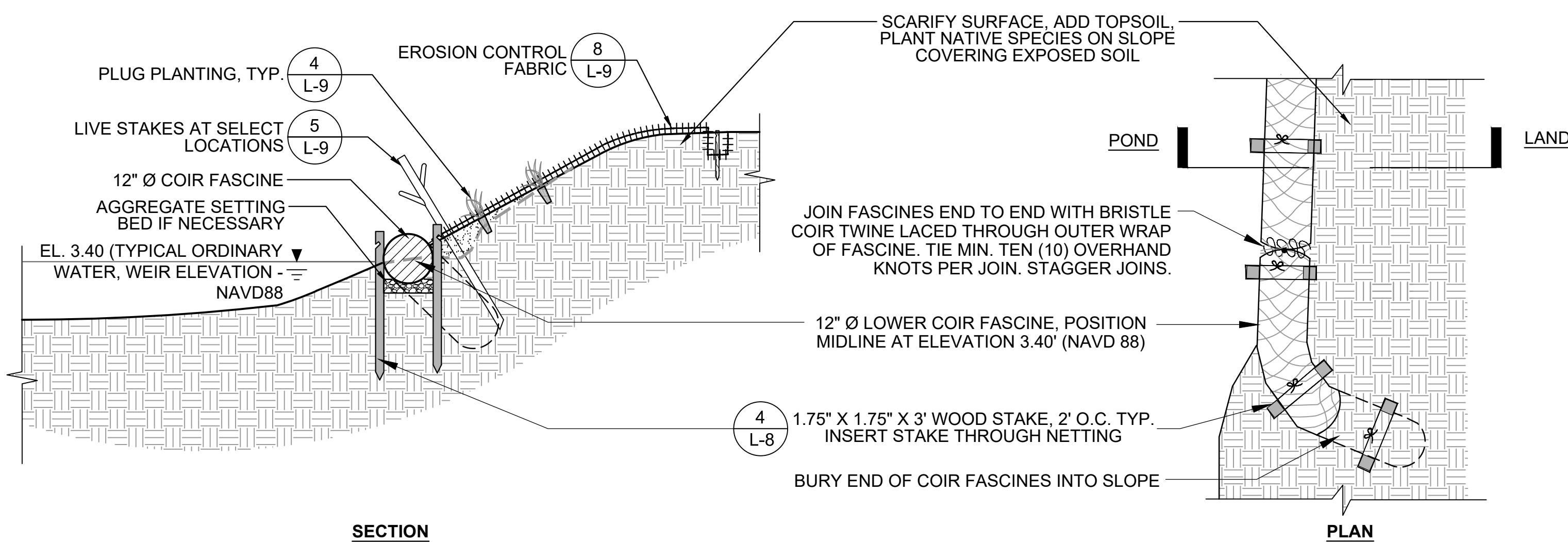
**2 TREATMENT B: SINGLE COIR FASCINE AT WETLAND**  
SCALE: NTS



NOTE:

STAKES SHALL BE 3'-0" LENGTH ON BOTH SIDES OF SINGLE COIR FASCINE AND LOWER SIDE OF STACKED FASCINE. 4'-0" LENGTH STAKES SHALL BE USED ON THE HIGH SIDE (LAND SIDE) OF THE UPPER STACKED FASCINE.

**4 NOTCHED WOODEN STAKE (AT COIR FASCINES)**  
SCALE: NTS

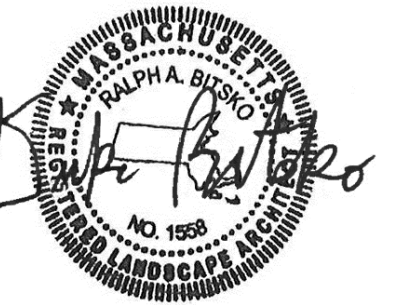


**1 TREATMENT A: SINGLE COIR FASCINE**  
SCALE: NTS

Client/Owner:

Town of Arlington Park & Recreation Commission  
422 Summer St.  
Arlington, MA 02474

Stamp:



Project: **SPY POND**  
EDGE & EROSION CONTROL PROJECT  
ARLINGTON, MA  
BID DOCUMENTS

Project:

Job Number:

H-355321

Date:

January 4, 2019

Drawn By:

A. Keel

Designed By:

H. Holmes, G. Johnson

Reviewed By:

H. Holmes, D. Bitsko

Revisions

Number: Description: Date:

Sheet Title:

SITE DETAILS

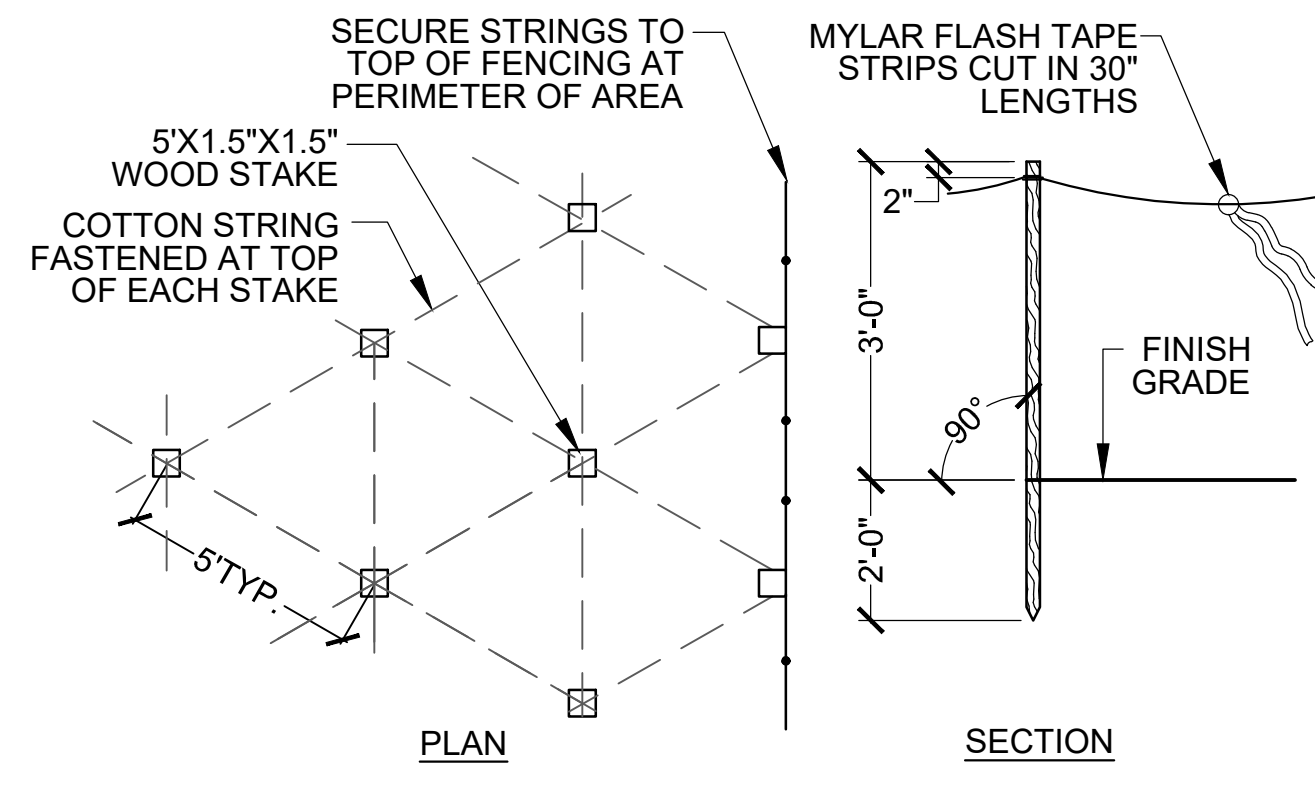
Sheet No:

**L-8**

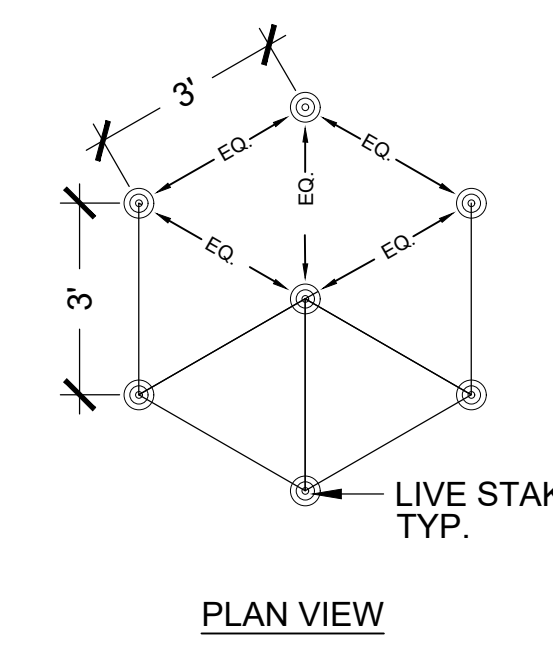
**PLANTING NOTES:**

- SUBSTITUTIONS OF PLANT SPECIES SHALL NOT BE PERMITTED. IN CASES WHERE INDIVIDUAL SPECIES ARE NOT COMMERCIALY AVAILABLE, QUANTITIES WILL BE MADE UP WITH ANOTHER SPECIES IN THE PLANT SCHEDULE AFTER WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.
- ALL SPECIES SHALL BE STRAIGHT SPECIES; NO CULTIVARS SHALL BE USED, UNLESS OTHERWISE NOTED AND APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE.
- SPRING VALLEY PLANTINGS (AREA 4) ASSOCIATED WITH ADD ALTERNATE #3.
- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN HORTICULTURE INDUSTRY ASSOCIATION. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- TO ENSURE AVAILABILITY AND SECURE QUANTITIES OF SPECIFIED PLANT MATERIALS, CONTRACTOR SHALL MAKE ARRANGEMENTS WITH NURSERY(IES) AND OWNER WITHIN THIRTY (30) DAYS OF AWARD OF CONTRACT (SEE SPECIFICATION SECTION 02900 - PLANTING).
- CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING PLAN AS SHOWN ON DRAWINGS.
- NO PLANT MATERIAL SHALL BE PLANTED BEFORE ACCEPTANCE OF FINAL GRADING AND SLOPE TREATMENTS BY THE OWNER'S REPRESENTATIVE.

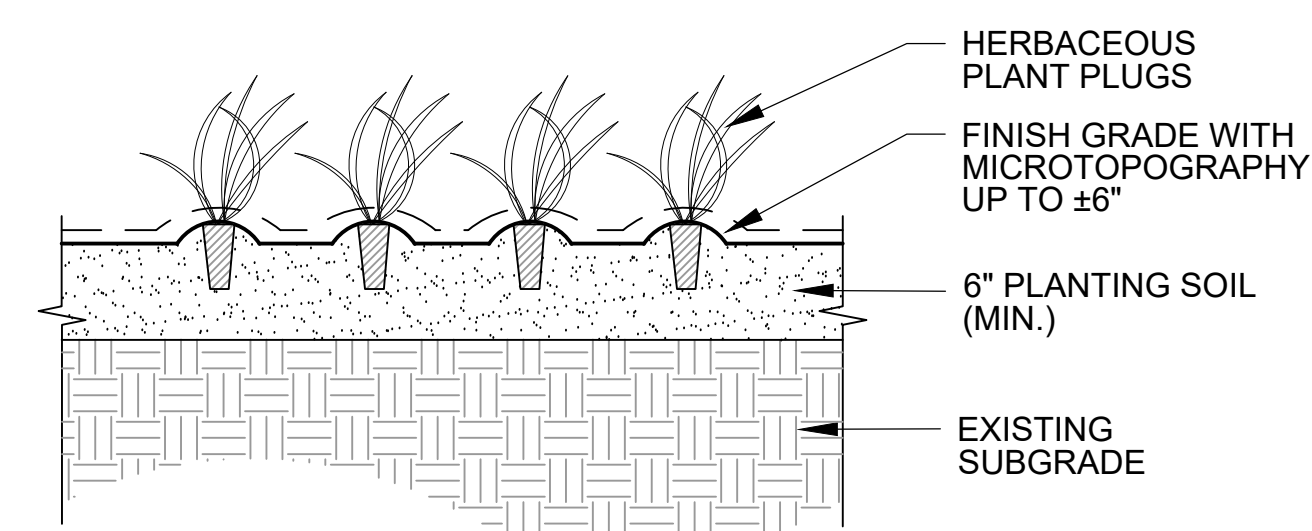
- WATERING OF INSTALLED PLANTS AND SEEDING AREAS, EITHER THROUGH THE TEMPORARY IRRIGATION SYSTEM OR BY HAND, SHALL OCCUR WITHIN 24 HOURS OF THE FIRST DAY OF PLANTING OR SEEDING AND CONTINUE AS OUTLINED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL THE COMPLETION OF THE MAINTENANCE AND GUARANTEE PERIODS AS OUTLINED IN THE CONTRACT DOCUMENTS.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN. NO FIELD-COLLECTED SPECIMENS WILL BE ALLOWED.
- ALL NEW PLANTS SHALL BE CONTAINERIZED SHRUBS OR HERBACEOUS PLUGS, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE OWNER'S REPRESENTATIVE AT THE NURSERY PRIOR TO DELIVERY TO THE SITE. TAGGING OF REPRESENTATIVE SAMPLES OF SHRUBS AND HERBACEOUS MATERIAL MAY BE ACCEPTABLE WITH PRIOR APPROVAL BY OWNER'S REPRESENTATIVE.
- ALL AREAS TO BE SEEDING SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN.



**6 GOOSE DETERRENT FENCE**  
SCALE: NTS

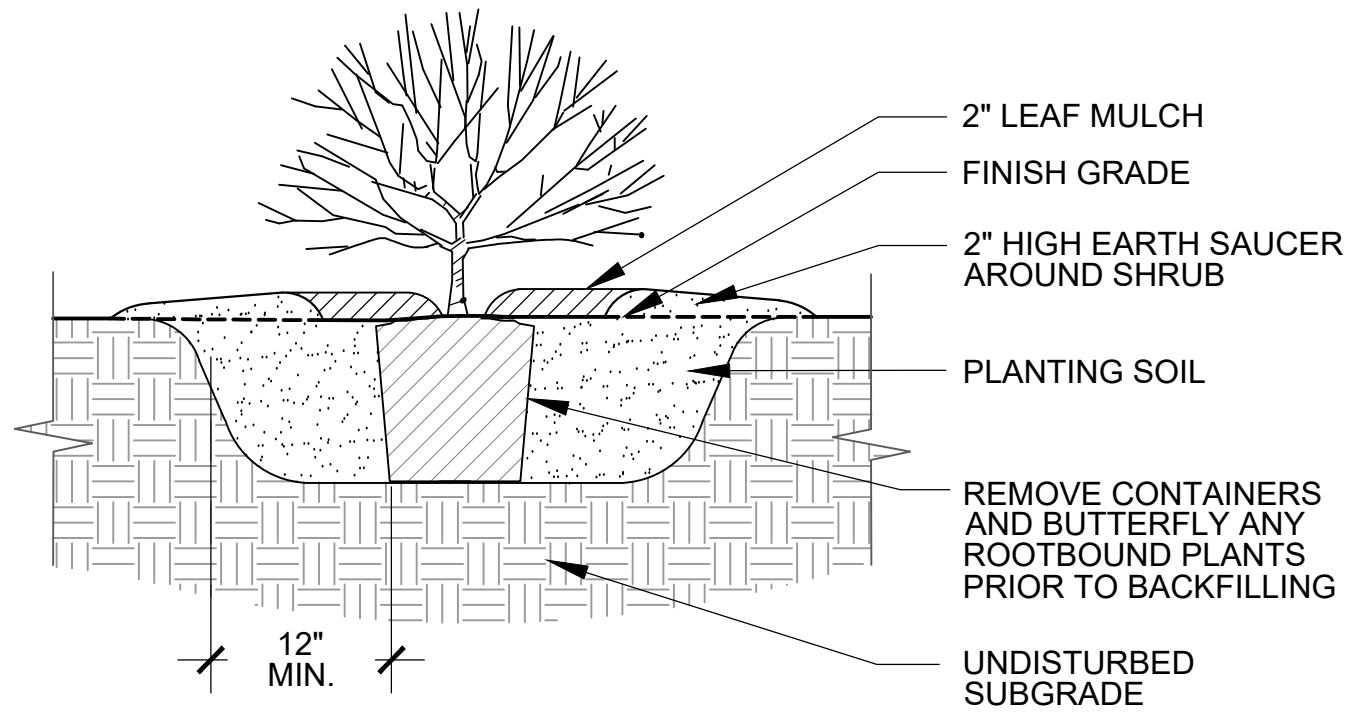


**5 LIVE STAKE PLANTING**  
SCALE: NTS

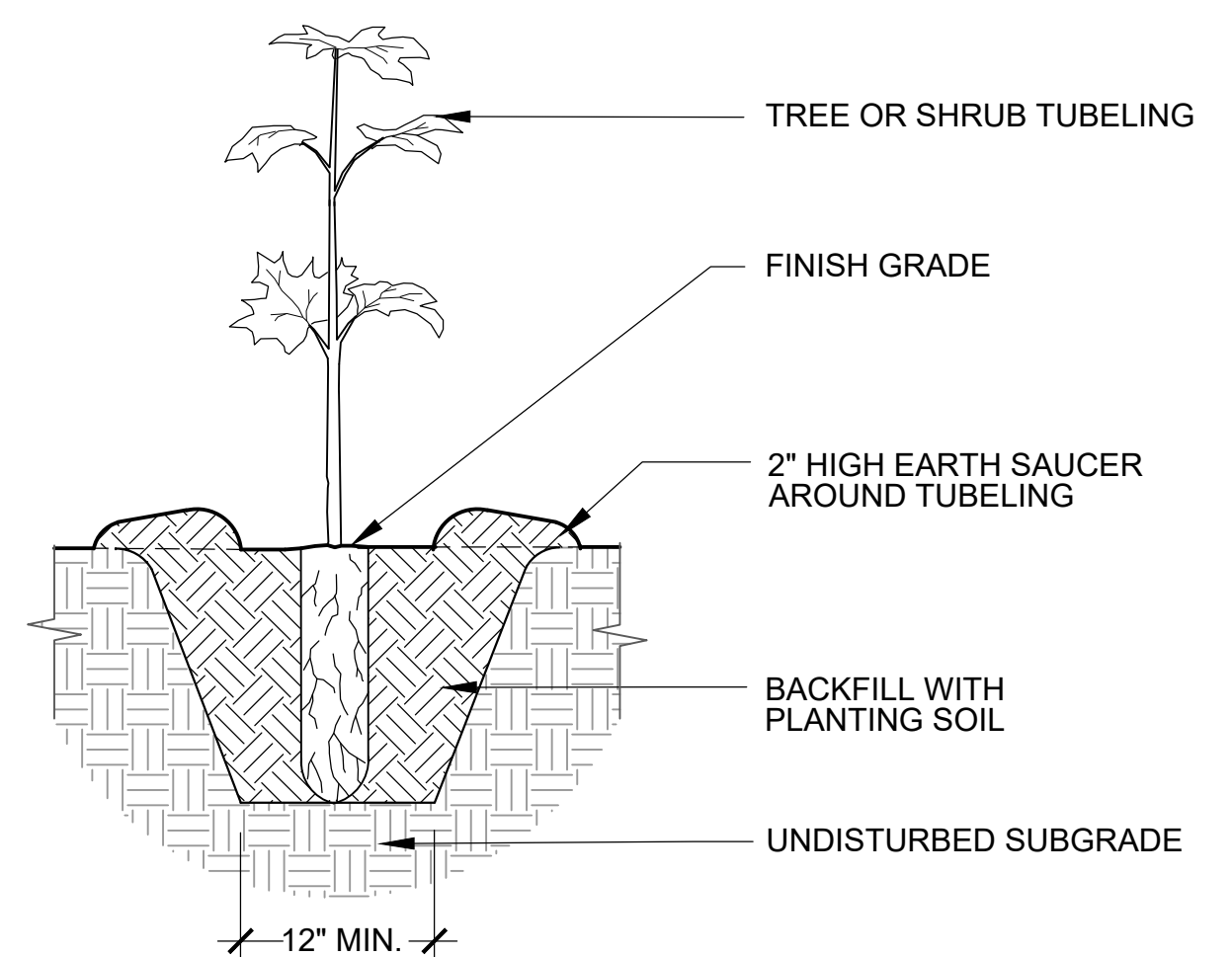


**4 PLUG PLANTING**  
SCALE: NTS

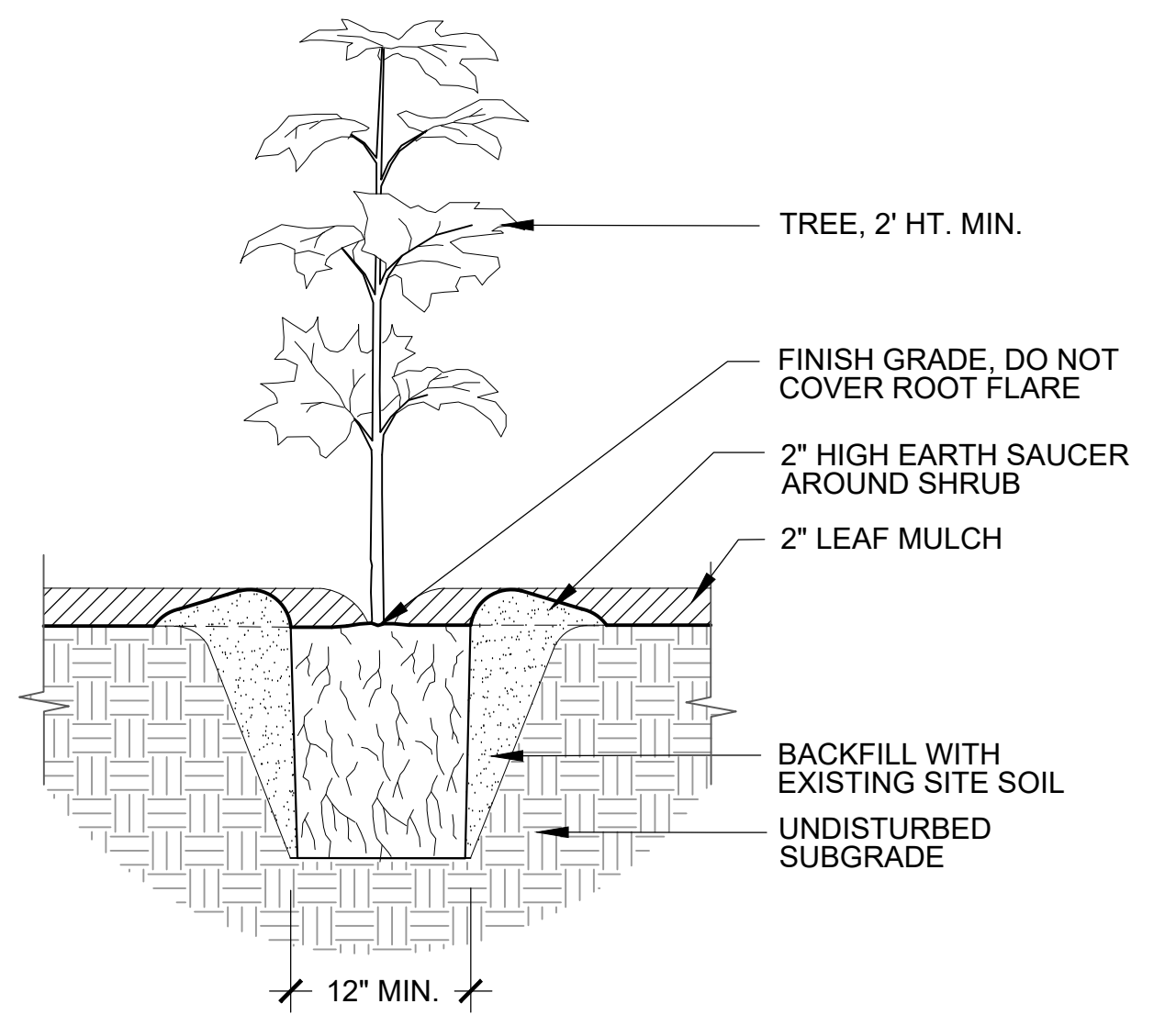
- NOTES:
- EROSION CONTROL FABRIC TO BE INSTALLED PRIOR TO PLANTING.
  - CUT "X" PATTERN IN EROSION CONTROL FABRIC 4"x4" TO ALLOW FOR PLUG PLANTING.
  - SEE PLANT SCHEDULE FOR PLUG SPACING.



**3 SHRUB/FERN PLANTING**  
SCALE: NTS



**2 TUBELING PLANTING**  
SCALE: NTS



**1 TREE PLANTING (2' HT)**  
SCALE: NTS

TOTAL QTY	Area 1 Spy Pond	Area 2 Scannell Field	Area 3 Boys & Girls	Area 4 Spring Valley	SIZE	DETAIL # (SHT L-9)	ID	Species (synonym)	Common Name
<b>TREES/TUBELINGS &amp; 2' HT. CONTAINERS</b>									
5	2	3			#2, 4' ht	1	AR	<i>Acer rubrum</i>	red maple
3		3			#2, 4' ht	1	BF	<i>Benthamidia (Cornus) florida</i>	flowering dogwood
2	2				#2, 4' ht	1	BA	<i>Betula alleghaniensis</i>	yellow birch
5		2	3		#2, 4' ht	1	BL	<i>Betula lenta</i>	black (sweet) birch
2	2				#2, 4' ht	1	CC	<i>Carpinus caroliniana</i>	American hornbeam
2	2				#2, 4' ht	1	JV	<i>Juniperus virginiana</i>	red cedar
6	3	3			#2, 4' ht	1	NS	<i>Nyssa sylvatica</i>	black gum
5	2	3			#2, 4' ht	1	OV	<i>Ostrya virginiana</i>	hop-hornbeam
1	1				#2, 4' ht	1	QA	<i>Quercus alba</i>	white oak
4	1	3			#2, 4' ht	1	QR	<i>Quercus rubra</i>	red oak
42	2			40	#2, 4' ht	1	SA	<i>Sassafras albidum</i>	sassafras
77	0	22	15	40					

SHRUBS/LIVE STAKES, TUBELINGS & #1 CONTAINERS	#1	#3	CA	CEA	CO	CAM	IV	LB	SD	SLB	ST	COA	SRA	VL
36	36													
5	5													
10			10											
100				100										
7	7													
110	10				100									
40	30					10								
10	10													
70	70													
404	64	100		240										
500	0	500												
10				10										
1302	232	600		440		30								

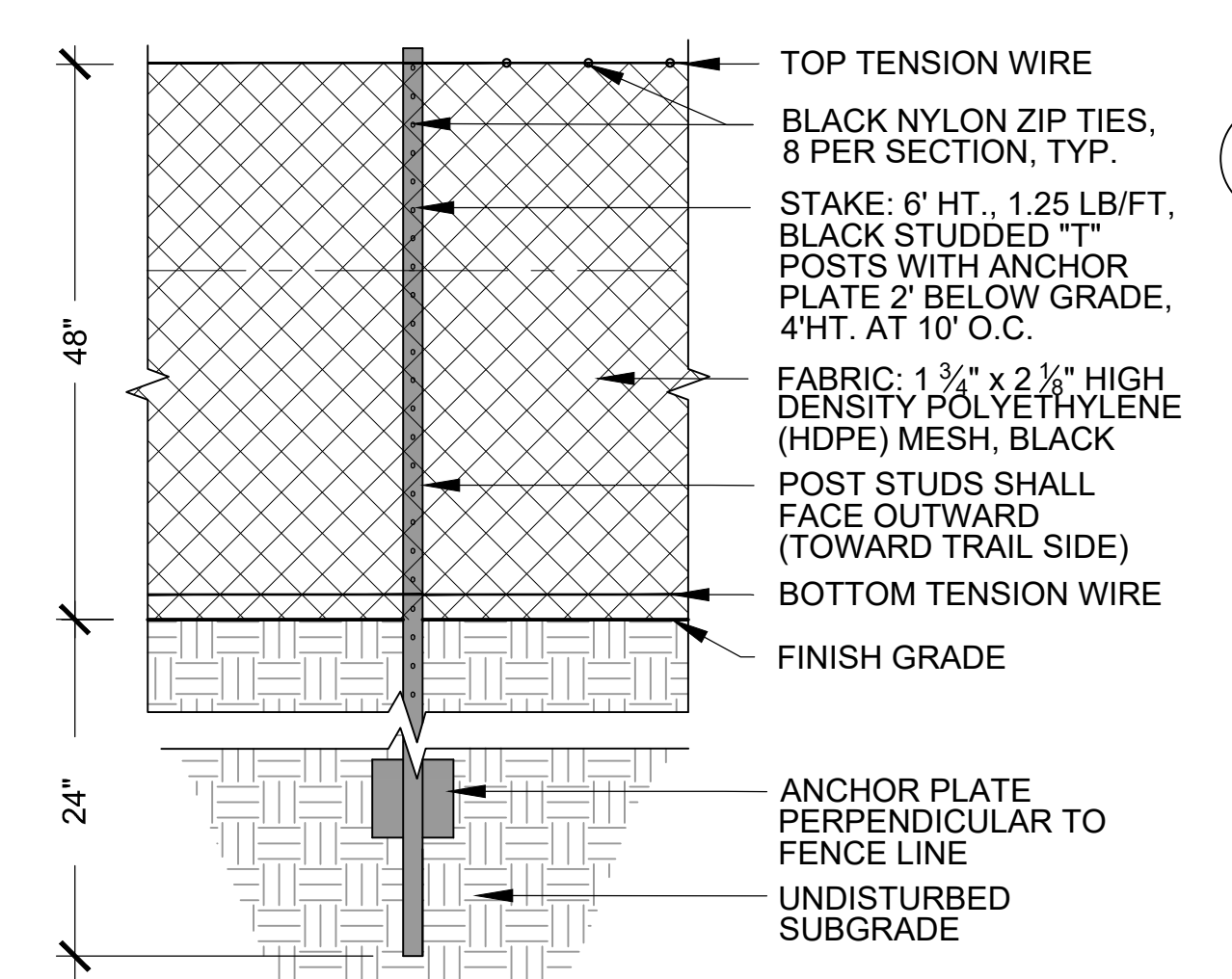
HERBACEOUS/ PLUGS & #1 CONTAINERS (FOOTPATH RESTORATION)	#1	#3	aca	aq	bt	cpe	dp	dc	dm	epe	ed	jc	jt	lc	os	oc	pjm	ss	sla	sna	to	vh	za
75		25	50																				
50	50																						
25	25																						
600		400	200																				
25							25																
150	50	100																					
250		200	50																				
100	100																						
150	150																						
325	300			25																			
100	100																						
100	100																						
125	125																						
20	20																						
45	25																						
50																							
50																							
100	100																						
25																							
200	200																						
100	75																						
2665	1420	725	300	220																			

HERBACEOUS/ PLUGS & #1 CONTAINERS (BYW, FASCINES, BIOBASINS)	#1	#3	aca	at	ep	jc	jt	lc	lp	os	pv	rf	ss	sna	vh
50	50														
150		100		50											
150		100		50											
775	150	475		150											
600	100	300	200												
300	100	100	50	50											
10	10														
370	100	120	100	50											
250		100		150											
150		100		50											
200		100		100											
400	100	200	50	50											
100		50		50											
3505	610	1745	450	700											

AREA TOTALS	7549	2262	3092	1205	990
TOTAL QTY					
Area 1 Spy Pond					
Area 2 Scannell Field					
Area 3 Boys & Girls					
Area 4 Spring Valley					

**9 PLANT SCHEDULE**  
SCALE: NTS

**8 EROSION CONTROL FABRIC**  
SCALE: NTS



**7 PLANT ESTABLISHMENT FENCE**  
SCALE: NTS

- NOTE:
- AT CHANGES IN DIRECTION, FENCE SHALL BE GENTLE CURVE, NOT EXCEEDING A RADIUS OF 170.

**6 GOOSE DETERRENT FENCE**  
SCALE: NTS

