

VICINITY MAP:



PROJECT BOUNDARY

Project Site Address:

11269 East Marginal Way South
Tukwila, WA 98168

Contract Documents for the Purchase of:

Bid No. xx-xx

DUWAMISH GARDENS

JULY 30, 2013

Consultant Design Team:

Landscape Architect:



100 S. King Street Suite 200
Seattle, WA 98104
206.583.0620

In Association with:

Civil Engineer:

Maul Foster Alongi, Inc.
911 Western Avenue, Suite 575
Seattle, WA 98104

Hydrologic, Environmental,
& Geotechnical Engineer:

Shannon & Wilson, Inc.
400 N 34th Street
Seattle, WA 98103

Surveyor & Structural
Engineer:

Lin & Associates, Inc.
901 Fifth Avenue, Suite 1610
Seattle, WA 98164

Aquatic Sciences:

Taylor Aquatic Science &
Policy

DRAWING INDEX	
SHEET	SHEET TITLE
GENERAL	
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2	EXISTING CONDITIONS PLAN
CIVIL	
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EC2	EROSION AND WATER CONTROL DETAILS
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CITY OF TUKWILA



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

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In association with:
Maul Foster Alongi, Inc.
Shannon & Wilson, Inc.
Lin & Associates, Inc.
Taylor Aquatic Science &
Policy

DUWAMISH GARDENS

COVER SHEET

no	date	revisions

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SURVEY NOTES

HORIZONTAL DATUM:

WASHINGTON COORDINATE SYSTEM, NAD83/91, NORTH ZONE

BASIS OF BEARINGS AND COORDINATES:

DERIVED BETWEEN LIN @ ASSOCIATES CONTROL POINTS 10001 AND 10002
N12°16'16"W 343.51' (MEASURED)

CONTROL POINT 10000
FOUND 2" BRASS DISK W/PUNCH MARK,
IN CASE, DOWN 0.50'
N 186186.11
E 1280780.72
ELEV. 27.26

CONTROL POINT 10001
FOUND 2" BRASS DISK W/PUNCH MARK,
IN CASE, DOWN 0.45'
N 186521.77
E 1280707.72
ELEV. 20.75

VERTICAL DATUM:

NAVD88

BENCHMARK:
SOUND TRANSIT (ST) H/V CONTROL POINT HV-21RS,
2" DIA. ALUMINIUM DISK STAMPED "SOUND TRANSIT LIGHT RAIL HV-21RS", W/ BARBED WIRE
ELEV=19.77 FEET

UNITS:

U.S. SURVEY FOOT. MULTIPLY BY 12/39.37 TO GET METERS.
CONTOUR INTERVAL SHOWN: 2'

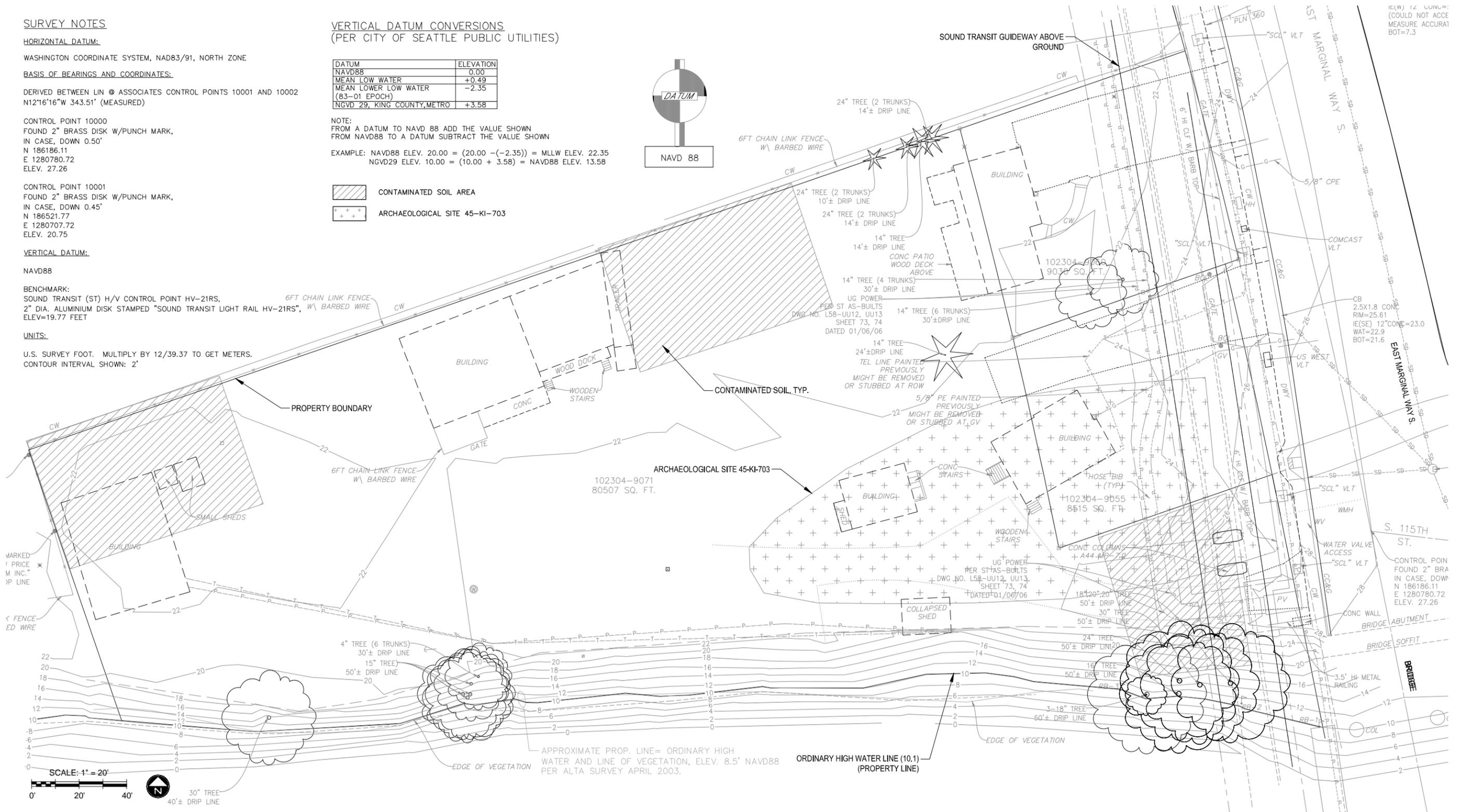
**VERTICAL DATUM CONVERSIONS
(PER CITY OF SEATTLE PUBLIC UTILITIES)**

DATUM	ELEVATION
NAVD88	0.00
MEAN LOW WATER	+0.49
MEAN LOWER LOW WATER (83-01 EPOCH)	-2.35
NGVD 29, KING COUNTY, METRO	+3.58

NOTE:
FROM A DATUM TO NAVD 88 ADD THE VALUE SHOWN
FROM NAVD88 TO A DATUM SUBTRACT THE VALUE SHOWN

EXAMPLE: NAVD88 ELEV. 20.00 = (20.00 - (-2.35)) = MLLW ELEV. 22.35
NGVD29 ELEV. 10.00 = (10.00 + 3.58) = NAVD88 ELEV. 13.58

-  CONTAMINATED SOIL AREA
-  ARCHAEOLOGICAL SITE 45-KI-703



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

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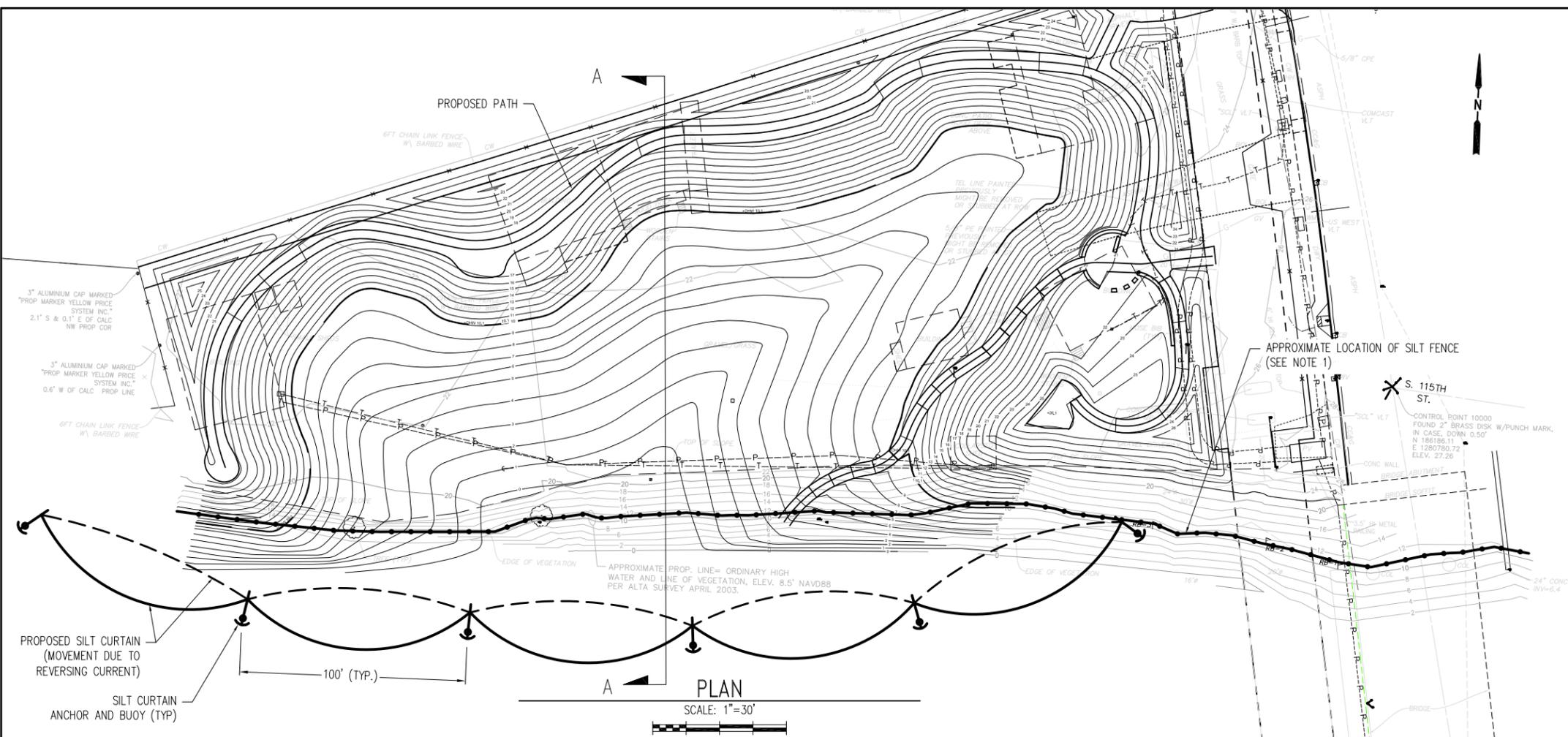


DUWAMISH GARDENS
EXISTING CONDITIONS PLAN

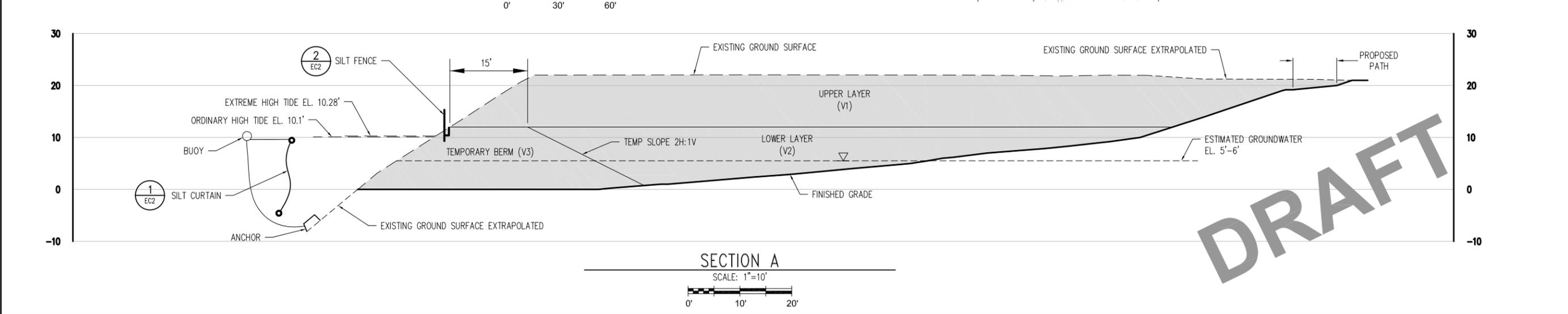
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CITY OF TUKWILA



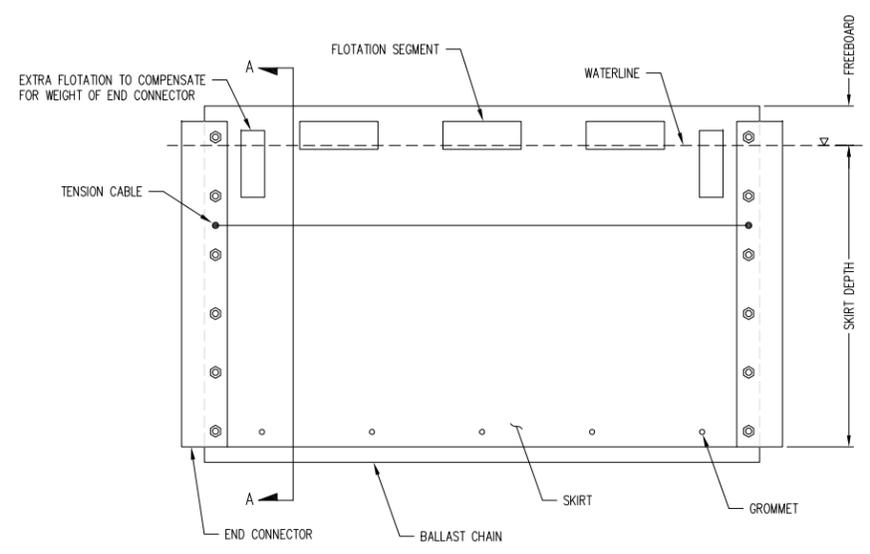
- NOTES:
1. INSTALL SILT FENCE AT ELEVATION 11' PRIOR TO EARTHWORK ALONG RIVER BANK GRADING AREAS.
 2. REMOVE CONTAMINATED TOPSOIL PER SPECIFICATIONS.
 3. REMOVE UPPER SOIL LAYER (V1) TO ELEVATION 12'. UPPER LAYER REMOVAL ALLOWED PRIOR TO IN-WATER WORK WINDOW.
 4. TEMPORARY BERM (V3) TO REMAIN IN PLACE AND PROTECT INTERIOR AREAS UNTIL INTERIOR GRADING OF LOWER LAYER (V2) COMPLETE. TEMPORARY BERM SIDE SLOPES TO BE CONFIRMED.
 5. EXCAVATE AND DEWATER INTERIOR GRADING OF LOWER LAYER (V2). LOWER LAYER REMOVAL ALLOWED PRIOR TO IN-WATER WORK WINDOW BUT MUST BE CONDUCTED OUTSIDE OF THE WET SEASON.
 6. TEMPORARY SLOPE ON LANDWARD SIDE OF V3 MUST BE PROTECTED WITH PLASTIC SHEETING DURING ANY TIME THAT IT IS NOT BEING ACTIVELY WORKED FOR MORE THAN 1 WEEK.
 7. INSTALL SILT CURTAIN DURING IN-WATER WORK WINDOW AND PRIOR TO REMOVING TEMPORARY BERM.
 8. REMOVE TEMPORARY BERM (V3) FROM LANDWARD SIDE. BREACHING ALLOWED ONLY DURING IN-WATER WORK WINDOW AND DURING LOW TIDE.



DRAFT

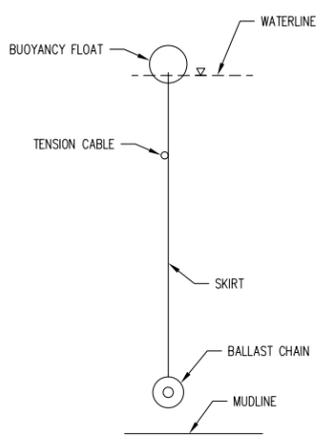
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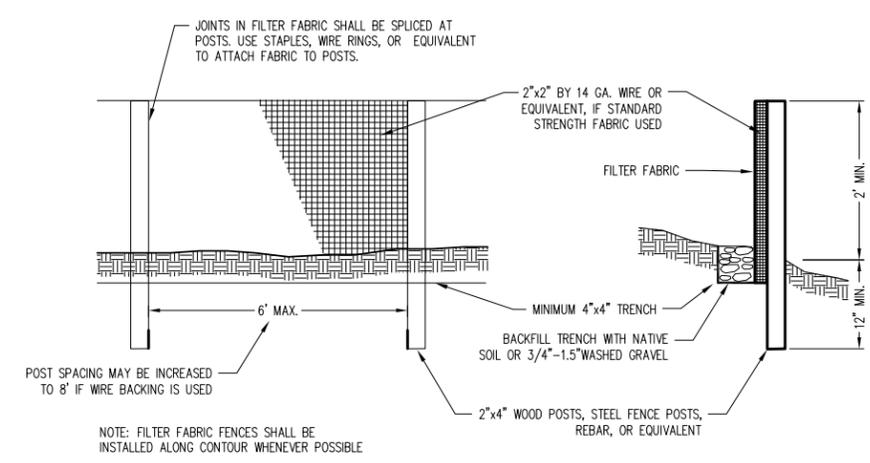
SILT CURTAIN DETAIL
NTS

1
EC2



VIEW A-A

NOTE:
ANCHOR CHAIN EVERY 100 FEET.
ALLOW APPROX. 1 FOOT CLEARANCE BETWEEN
LOWER EDGE OF SKIRT AND MUD LAYER.



SILT FENCE DETAIL
NTS

2
EC2

DRAFT

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PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

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field bk no		



SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants
400 North 34th Street, Suite 100
P.O. Box 300303
Seattle, Washington 98103
(206) 632-8020 FAX: (206) 633-6777

DUWAMISH GARDENS
EROSION AND WATER CONTROL
DETAILS

no	date	revisions

EC2
file no
scale
date

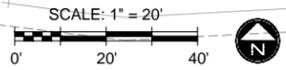
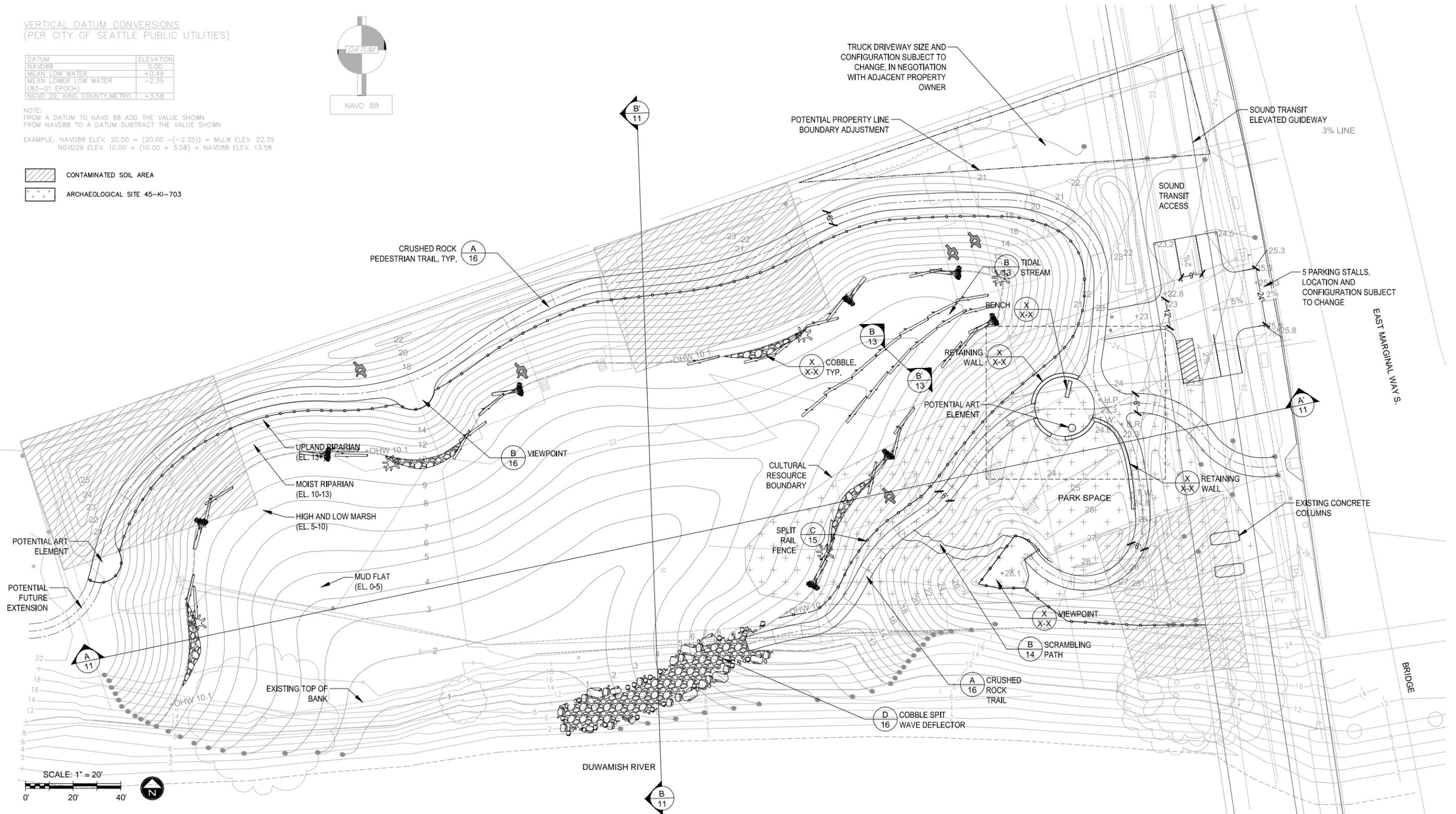
VERTICAL DATUM CONVERSIONS
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DUWAMISH GARDENS
LAYOUT PLAN

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17
file no
scale 1"=20'
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CITY OF TUKWILA

VERTICAL DATUM CONVERSIONS
(PER CITY OF SEATTLE PUBLIC UTILITIES)

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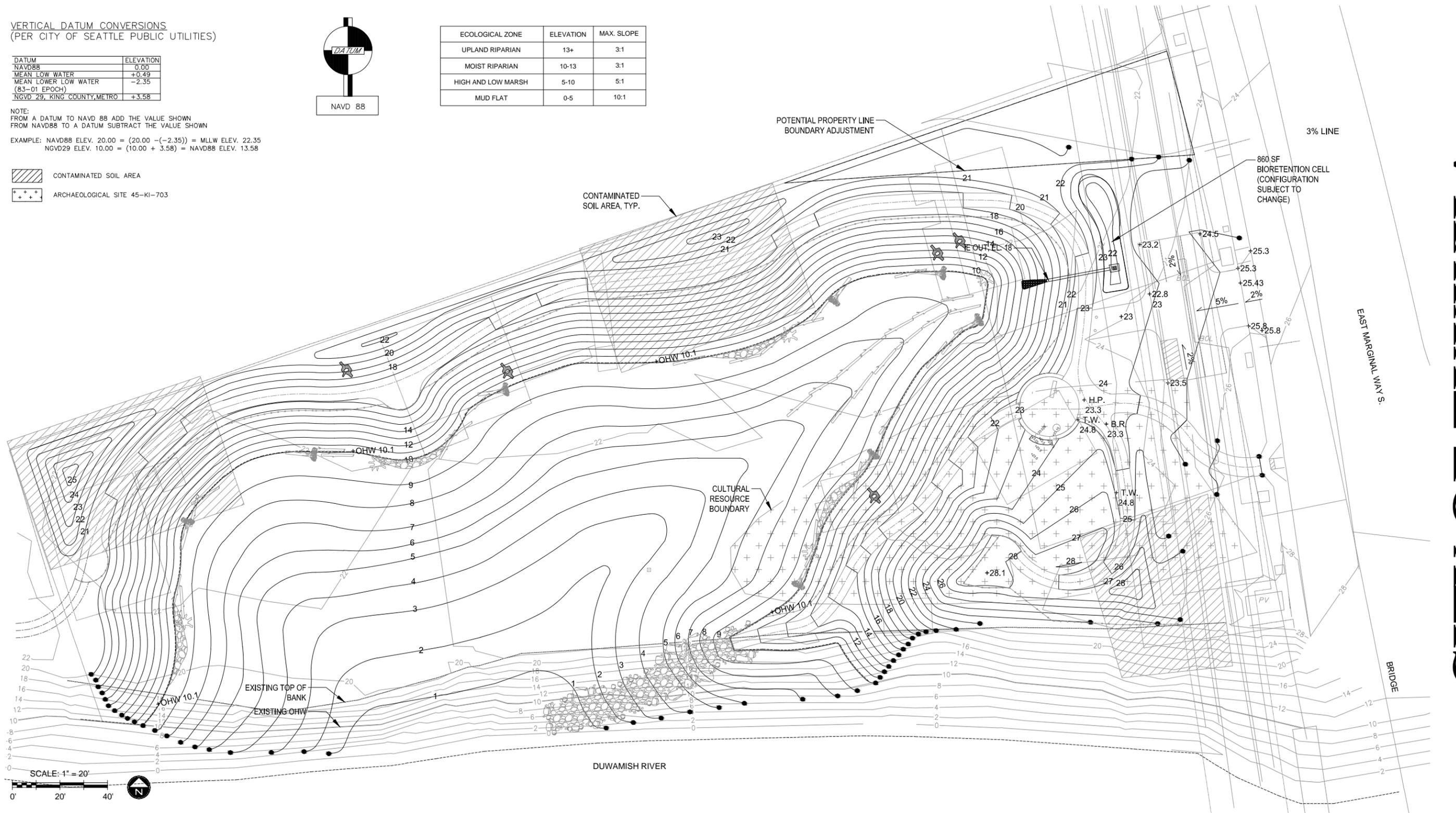
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-  CONTAMINATED SOIL AREA
-  ARCHAEOLOGICAL SITE 45-KI-703



ECOLOGICAL ZONE	ELEVATION	MAX. SLOPE
UPLAND RIPARIAN	13+	3:1
MOIST RIPARIAN	10-13	3:1
HIGH AND LOW MARSH	5-10	5:1
MUD FLAT	0-5	10:1



SCALE: 1" = 20'
0' 20' 40'



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

	by	date
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checked		
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proj dir		
field bk no		

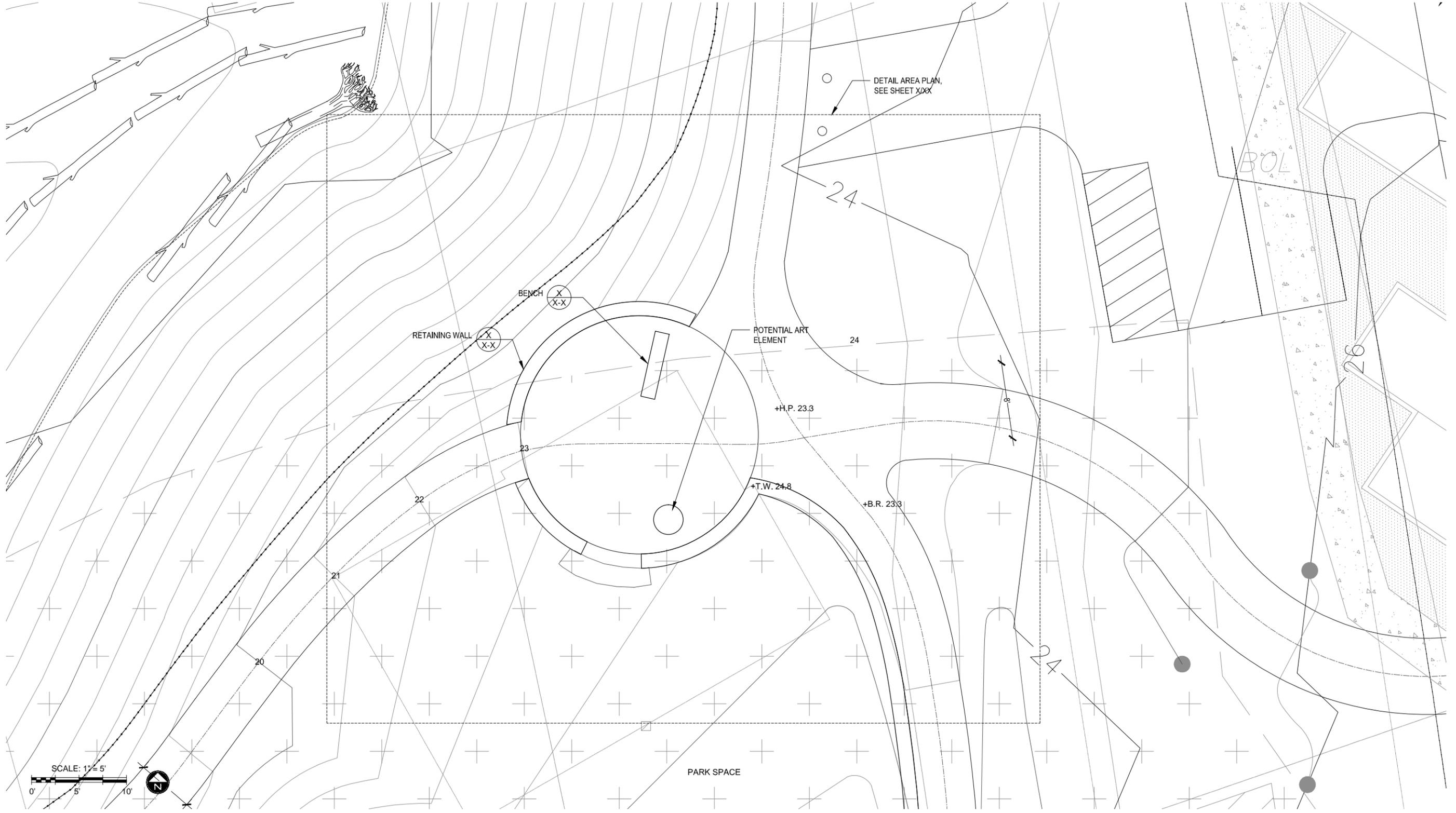


DUWAMISH GARDENS
GRADING AND DRAINAGE PLAN

no	date	revisions

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17
file no
scale 1"=20'-0"
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CITY OF TUKWILA



CITY OF TUKWILA



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 -ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

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DUWAMISH GARDENS
DETAIL AREA PLAN

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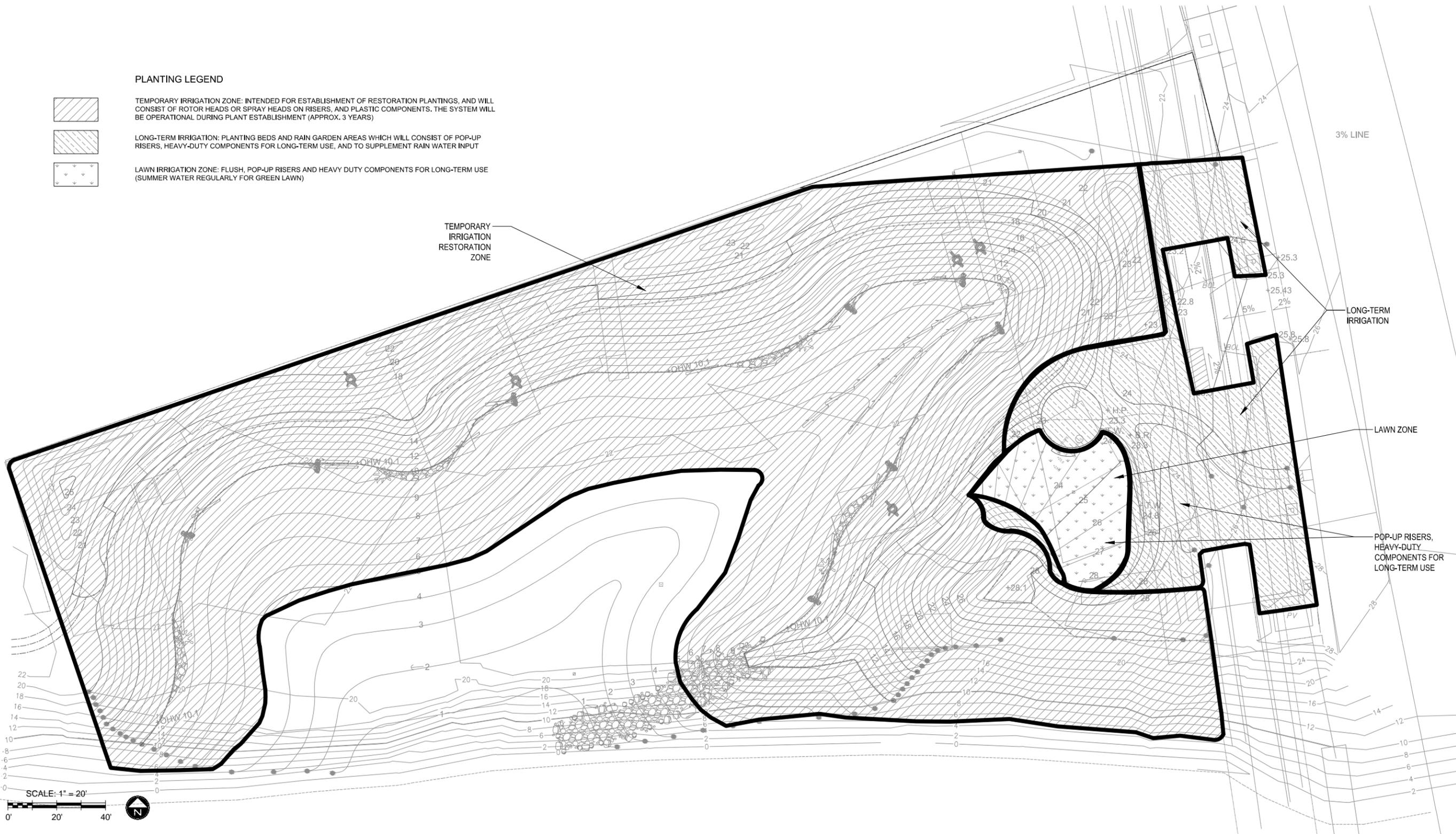
PLANTING LEGEND



TEMPORARY IRRIGATION ZONE: INTENDED FOR ESTABLISHMENT OF RESTORATION PLANTINGS, AND WILL CONSIST OF ROTOR HEADS OR SPRAY HEADS ON RISERS, AND PLASTIC COMPONENTS. THE SYSTEM WILL BE OPERATIONAL DURING PLANT ESTABLISHMENT (APPROX. 3 YEARS)

LONG-TERM IRRIGATION: PLANTING BEDS AND RAIN GARDEN AREAS WHICH WILL CONSIST OF POP-UP RISERS, HEAVY-DUTY COMPONENTS FOR LONG-TERM USE, AND TO SUPPLEMENT RAIN WATER INPUT

LAWN IRRIGATION ZONE: FLUSH, POP-UP RISERS AND HEAVY DUTY COMPONENTS FOR LONG-TERM USE (SUMMER WATER REGULARLY FOR GREEN LAWN)



CITY OF TUKWILA



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field bk no		



DUWAMISH GARDENS
IRRIGATION ZONE PLAN

no	date	revisions

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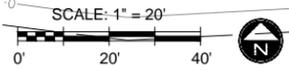
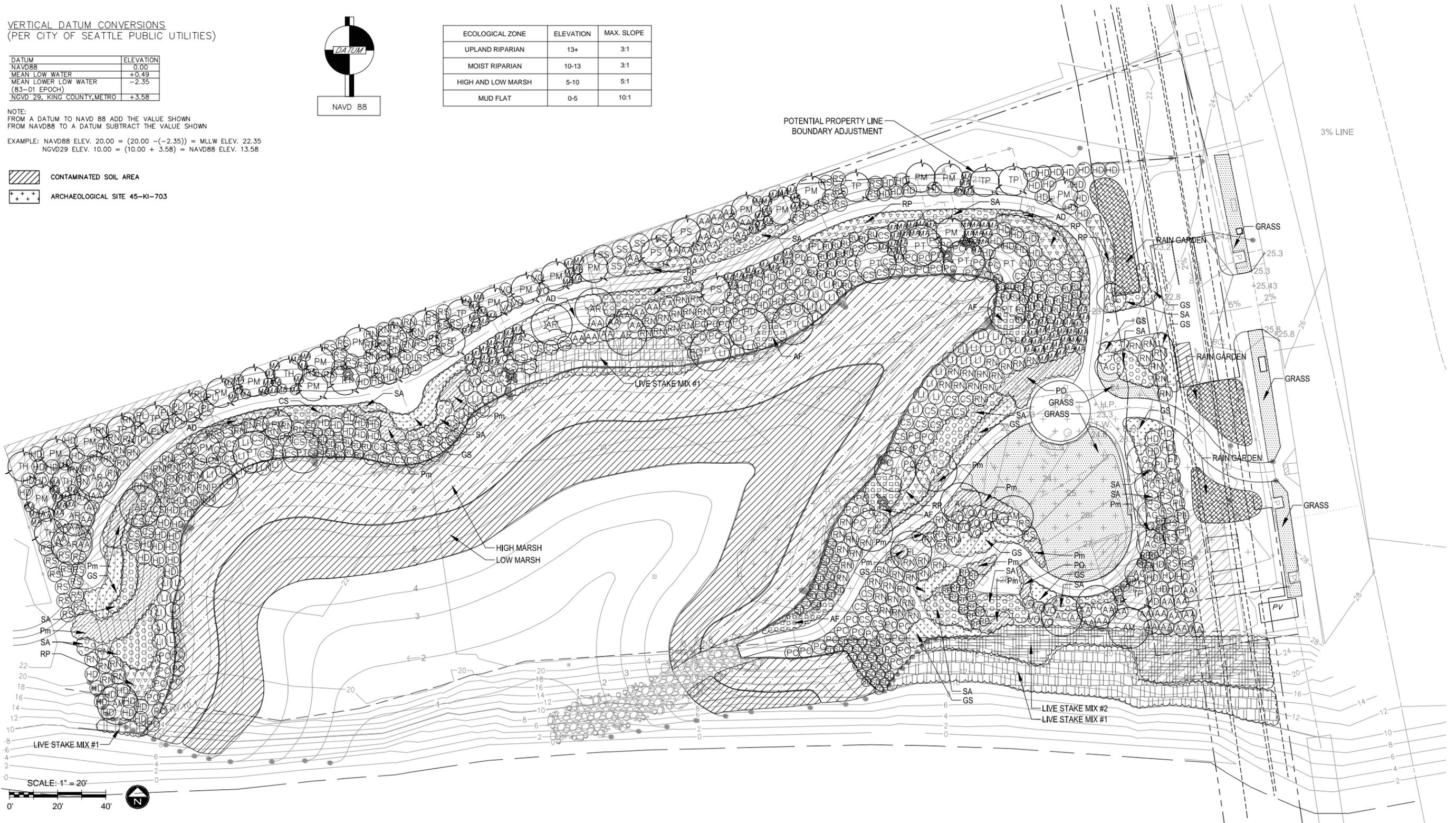
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UPLAND RIPARIAN	13+	3:1
MOIST RIPARIAN	10-13	3:1
HIGH AND LOW MARSH	5-10	5:1
MUD FLAT	0-5	10:1



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

by	date
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drawn DS	
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proj dir	
field bk no	

j.a. brennan
ASSOCIATES PLLC
LANDSCAPE ARCHITECTS & PLANNERS

DUWAMISH GARDENS
PLANTING PLAN

no	date	revisions

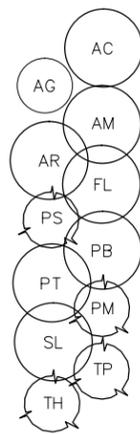
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CITY OF TUKWILA

PLANT LIST

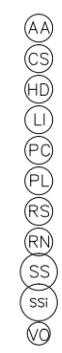
TREES



PLANTING ZONE KEY

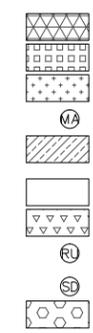
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING	UR	MR	HM	LM	RG	PARK/SS
AC	ACER CIRCINATUM	VINE MAPLE	5 GAL	CONTAINER	AS SHOWN	X					
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	1-1/2" CAL	B & B	AS SHOWN	X					X
AM	ACER MACROPHYLLUM	BIG LEAF MAPLE	5 GAL	CONTAINER	AS SHOWN	X					
AR	ALNUS RUBRA	RED ALDER	5 GAL	CONTAINER	AS SHOWN		X				
FL	FRAXINUS LATIFOLIA	OREGON ASH	5 GAL	CONTAINER	AS SHOWN	X					
PS	PICEA SITCHENSIS	SITKA SPRUCE	5 GAL	CONTAINER	AS SHOWN	X					
PB	POPULUS BALSAMIFERA	BLACK COTTONWOOD	5 GAL	CONTAINER	AS SHOWN		X				
PT	POPULUS TREMULOIDES	QUAKING ASPEN	5 GAL	CONTAINER	AS SHOWN	X	X				
PM	PSEUDOTSUGA MENZESII	DOUGLAS FIR	5 GAL	CONTAINER	AS SHOWN	X					
SL	SALIX LUCIDA	PACIFIC WILLOW	5 GAL	CONTAINER	AS SHOWN		X				
TP	THUJA PLICATA	WESTERN RED CEDAR	5 GAL	CONTAINER	AS SHOWN	X	X				
TH	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	5 GAL	CONTAINER	AS SHOWN	X					

SHRUBS



SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING	UR	MR	HM	LM	RG	PARK/SS
AA	AMELANCHIER ALNIFOLIA	SERVICEBERRY	1 GAL	CONTAINER	6' O.C.	X	X				
CS	CORNUS STOLONIFERA	REDSIER DOGWOOD	1 GAL	CONTAINER	6' O.C.	X	X				
HD	HOLIDISCUS DISCOLOR	OCEANSPRAY	1 GAL	CONTAINER	6' O.C.	X					
LI	LONICERA INVOLUCRATA	TWINBERRY	1 GAL	CONTAINER	6' O.C.		X				
PC	PHYSCARPUS CAPITATUS	PACIFIC NINEBARK	1 GAL	CONTAINER	6' O.C.		X				
PL	PHILADELPHUS LEWISII	LEWIS' MOCK-ORANGE	1 GAL	CONTAINER	6' O.C.	X					
RS	RIBES SANGUINEUM	RED FLOWERING CURRANT	1 GAL	CONTAINER	6' O.C.	X					
RN	ROSA NUTKANA	NOOTKA ROSE	12" - 18"	BARE ROOT	6' O.C.	X	X				
SS	SALIX SCOULERIANA	SCOULER'S WILLOW	1/2" - 1-1/2"	LIVESTAKE	8' O.C.	X	X				
SSi	SALIX SITCHENSIS	SITKA WILLOW	1/2" - 1-1/2"	LIVESTAKE	8' O.C.		X				
VO	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	1 GAL	CONTAINER	5' O.C.						

SMALL SHRUBS/ FERNS



SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING	UR	MR	HM	LM	RG	PARK/SS
AD	ARUNCUS DIOICUS	GOAT'S BEARD	1 GAL	CONTAINER	2' O.C.						
AF	ATHYRIUM FILIX-FEMINA	LADY FERN	1 GAL	CONTAINER	2' O.C.						
GS	GAULTHERIA SHALLON	SALAL	1 GAL	CONTAINER	2' O.C.	X					X
MA	MAHONIA AQUIFOLIUM	TALL OREGON-GRAPE	1 GAL	CONTAINER	4' O.C.	X					
Pm	POLYSTICHUM MINUTUM	SWORD FERN	1 GAL	CONTAINER	3' O.C.						
RG	ROSA RUGOSA 'SNOW PAVEMENT'	SNOW PAVEMENT ROSE	1 GAL	CONTAINER	3' O.C.						X
RP	RUBUS PARVIFLORUS	THIMBLEBERRY	1 GAL	CONTAINER	4' O.C.						
RU	RUBUS SPECTABILIS	SALMONBERRY	1 GAL	CONTAINER	4' O.C.		X				
SD	SPIREA DOUGLASII	DOUGLAS' SPIREA	1 GAL	CONTAINER	4' O.C.						
SA	SYMPHORICARPOS ALBUS	SNOWBERRY	12" - 18"	BARE ROOT	3' O.C.	X					

GROUNDCOVERS

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING	UR	MR	HM	LM	RG	PARK/SS
AF	ARCTOSTAPHYLOS ULVA-URSI	KINNICKINICK	1 GAL	CONTAINER	24" O.C.						
FC	FRAGARIA CHILOENSIS	COASTAL STRAWBERRY	4" POT	CONTAINER	18" O.C.						

EMERGENT MIX

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING	UR	MR	HM	LM	RG	PARK/SS
AR	ARGENTINA EGEDII	PACIFIC SILVERWEED	1 GAL	CONTAINER	24" O.C.			X			
AE	AGROSTIS EXERATA	SPIKE BENTGRASS	1 GAL	CONTAINER	24" O.C.			X			
AS	AGROSTIS STOLINIFERA	CREEPING BUNTGRASS	1 GAL	CONTAINER	24" O.C.			X			
CL	CAREX LYNGBYEI	LYNGBYE'S SEDGE	1 GAL	CONTAINER	24" O.C.			X	X		
CO	CAREX OBNUPTA	SLOUGH SEDGE	1 GAL	CONTAINER	24" O.C.				X		
DC	DESCHAMPSIA CAESITOSA	TUFTED HAIRGRASS	1 GAL	CONTAINER	24" O.C.			X			
JA	JUNCUS ARTICULATUS	JOINTED RUSH	1 GAL	CONTAINER	24" O.C.			X			
SM	SCIRPUS MICROCARPUS	SMALL FRUITED BULLRUSH	1 GAL	CONTAINER	24" O.C.				X		
SV	SCIRPUS VALIDUS	SOFTSTEM BULLRUSH	1 GAL	CONTAINER	24" O.C.				X		

LIVE STAKE MIX #1



PERCENTAGE	SCIENTIFIC NAME	COMMON NAME
10%	POPULUS BALSAMIFERA	BLACK COTTONWOOD
10%	CORNUS SERICEA	RED TWIG DOGWOOD
40%	SALIX SCOULERIANA	SCOULER'S WILLOW
40%	SALIX SITCHENSIS	SITKA WILLOW

LIVE STAKE MIX #2



PERCENTAGE	SCIENTIFIC NAME	COMMON NAME
10%	SAMBUCUS CERULEA	ELDERBERRY
10%	CORNUS SERICEA	RED TWIG DOGWOOD
80%	SYMPHORICARPOS ALBUS	SNOWBERRY

PLANTING ZONE KEY

PLANTING ZONE	ABBREVIATION	ELEVATION	MAX. SLOPE
UPLAND RIPARIAN	UR	13+	3:1
MOIST RIPARIAN	MR	10-13	3:1
HIGH MARSH	HM	7.5-10	5:1
LOW MARSH	LM	5-7.5	5:1
RAIN GARDEN	RG	N/A	N/A
PARK AND STREETSCAPE	PARK/SS	N/A	N/A



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

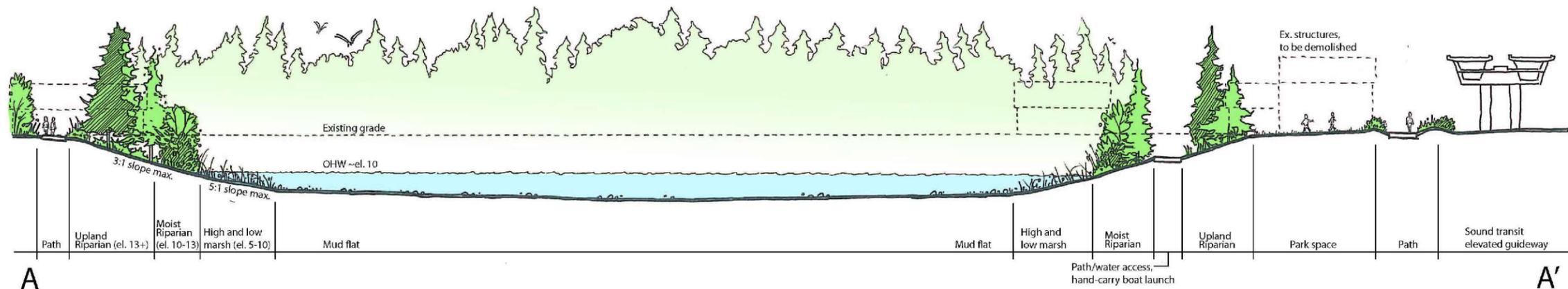
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DUWAMISH GARDENS
PLANT SCHEDULE

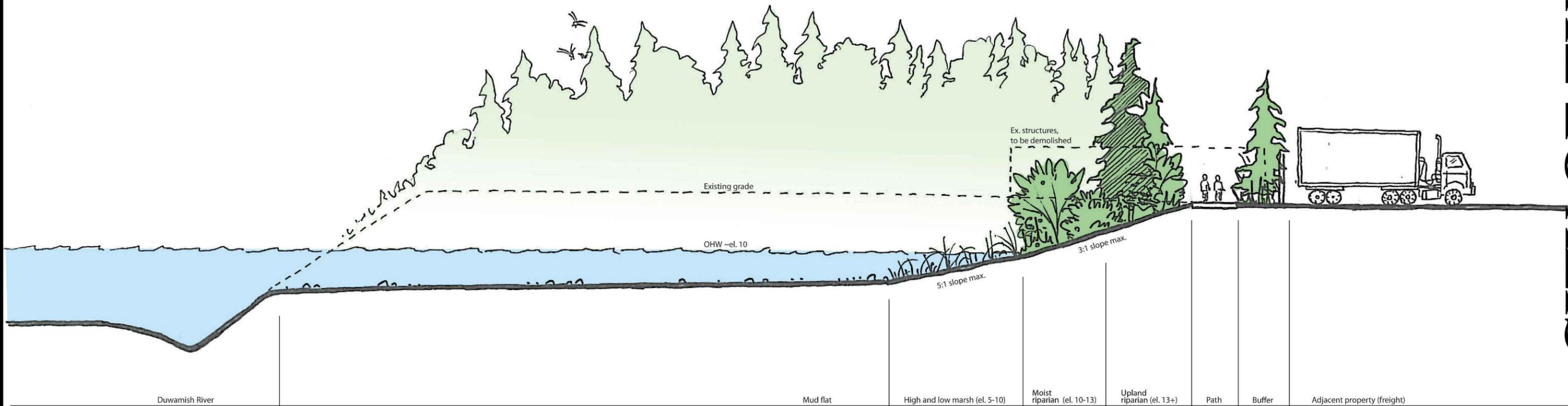
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A
SECTION A

SCALE: 1" = 20'
0' 20' 40'



B
SECTION B

SCALE: 1" = 10'
0' 10' 20'



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DUWAMISH GARDENS
SITE SECTIONS

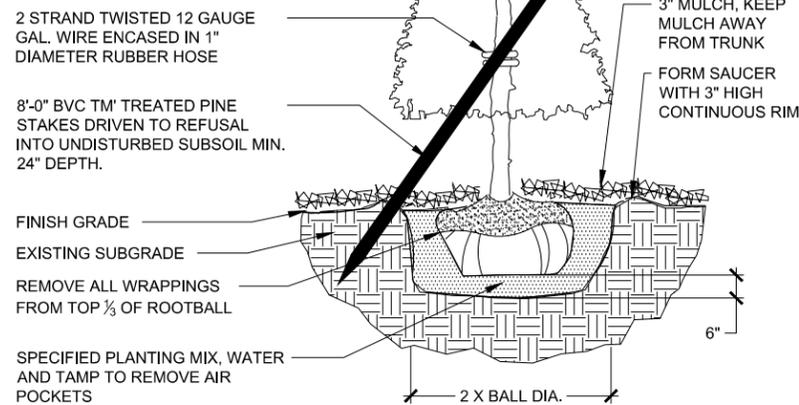
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scale
date

NOTES:

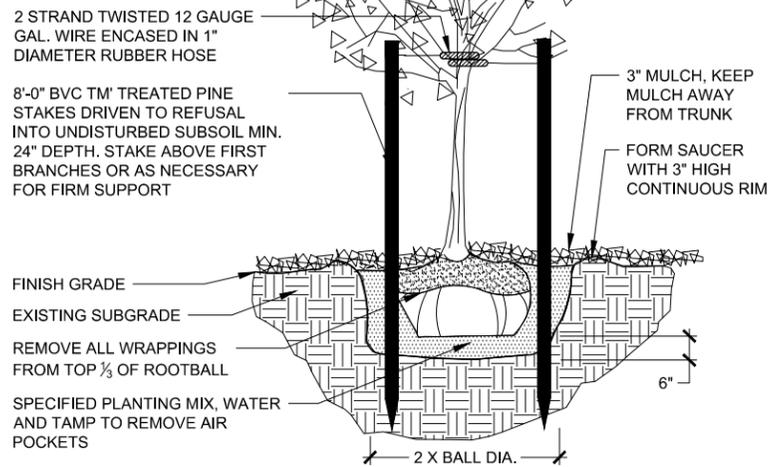
- STAKE TREES OVER 5' HEIGHT
- PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE
- SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING
- FLAG GUYING WIRES WITH SURVEYOR TAPE



A CONIFER TREE PLANTING

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

- STAKE TREES OVER 5' HEIGHT
- PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE
- SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING
- FLAG GUYING WIRES WITH SURVEYOR TAPE



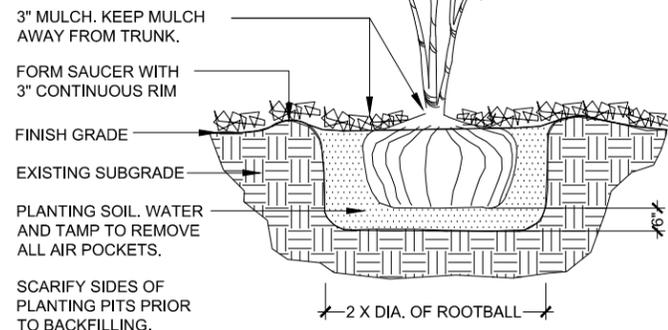
B DECIDUOUS TREE PLANTING

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

NOTE:

- MULCH COMPLETELY BETWEEN ALL PLANTS EXCEPT IN SEEDED AND MARSH AREAS.

- PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.

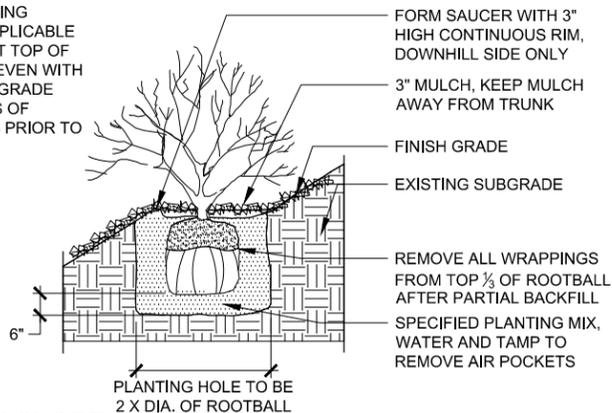


C SHRUB PLANTING

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

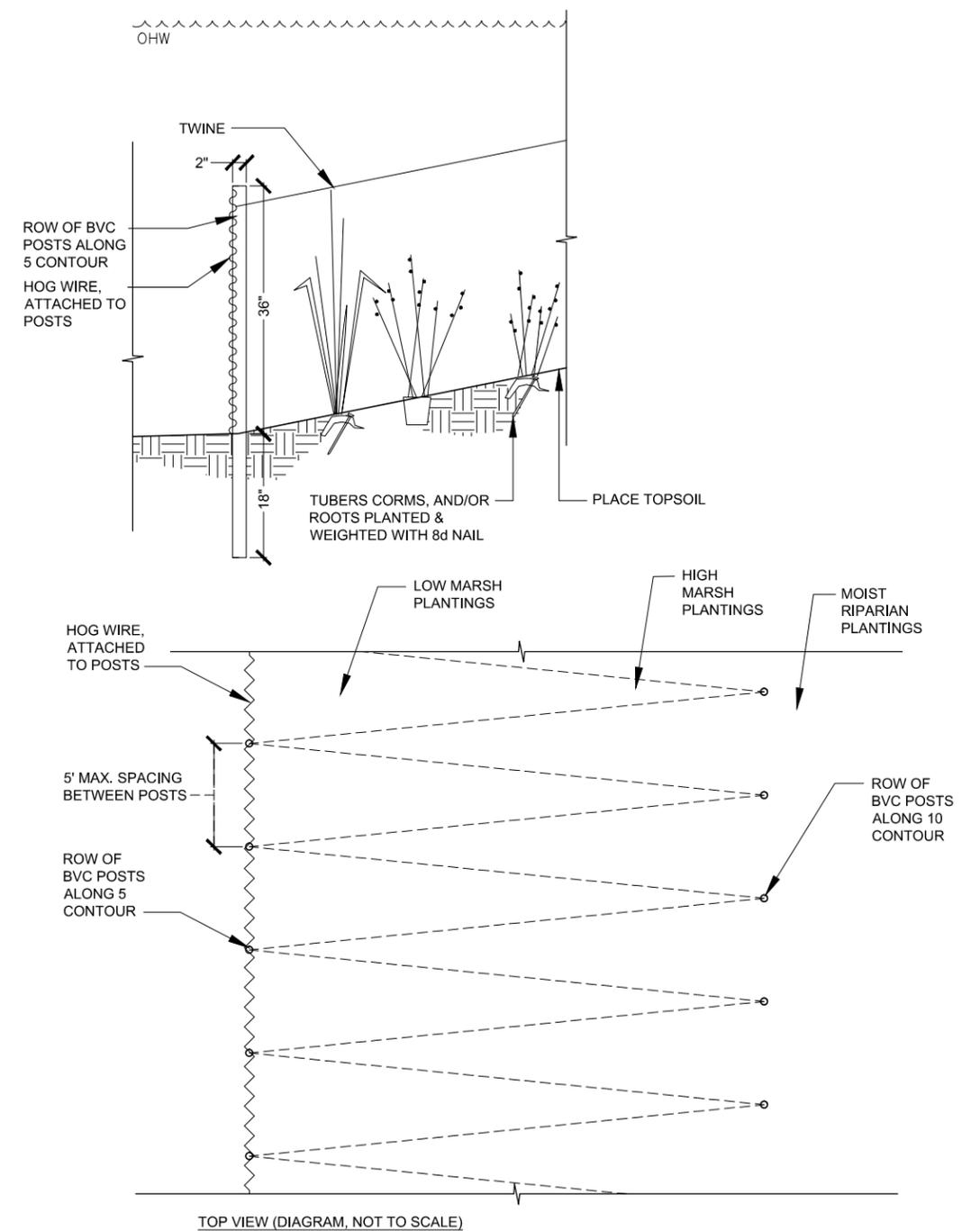
NOTES:

- STAKE TREES AS SHOWN IN TREE PLANTING DETAILS AS APPLICABLE
- PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE
- SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING



D SHRUB ON SLOPE PLANTING

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



E EMERGENT PLUG PLANTING

SCALE: 1" = 1'-0"



PUBLIC WORKS DEPT.

-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

by	date
designed	MP
drawn	DS
checked	
proj eng	
proj dir	
field bk no	



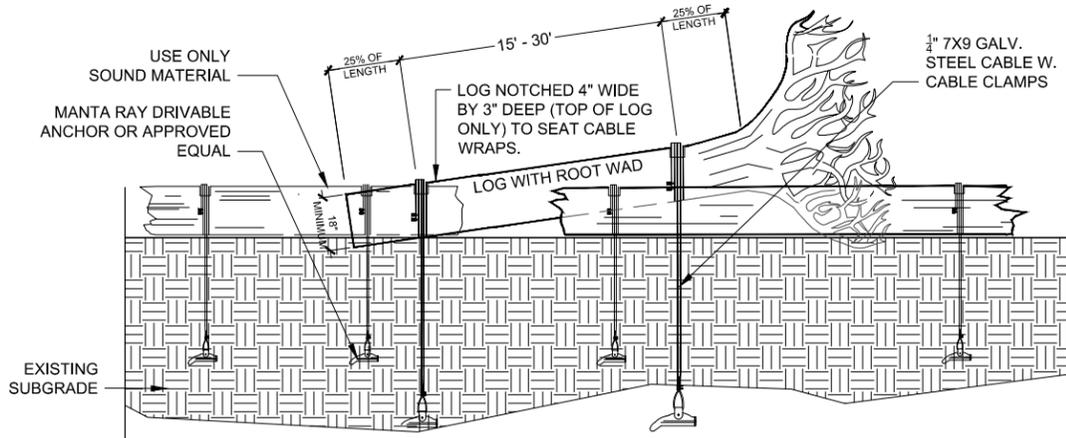
DUWAMISH GARDENS

DETAILS: PLANTING

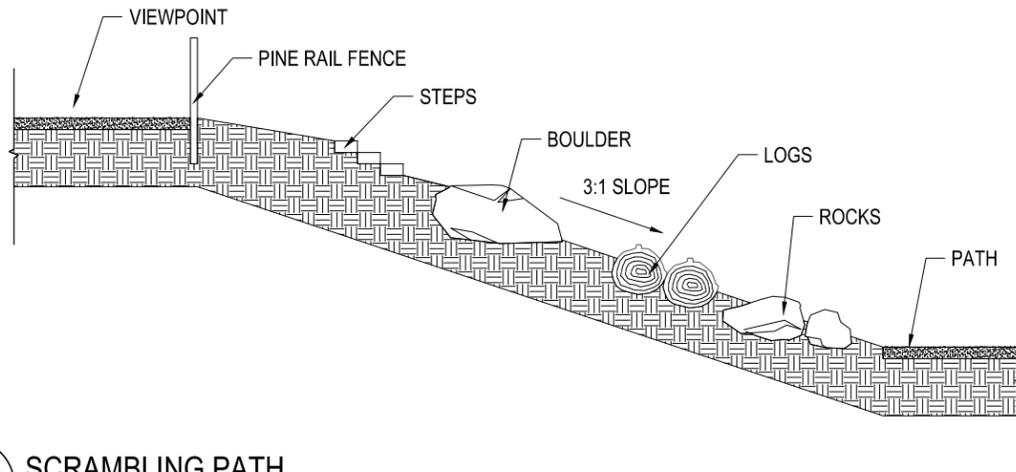
no	date	revisions

12
17

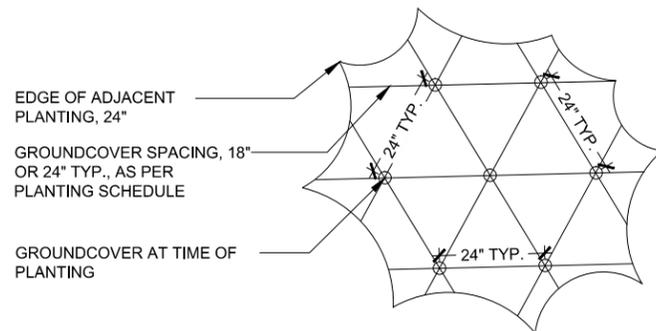
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scale
date



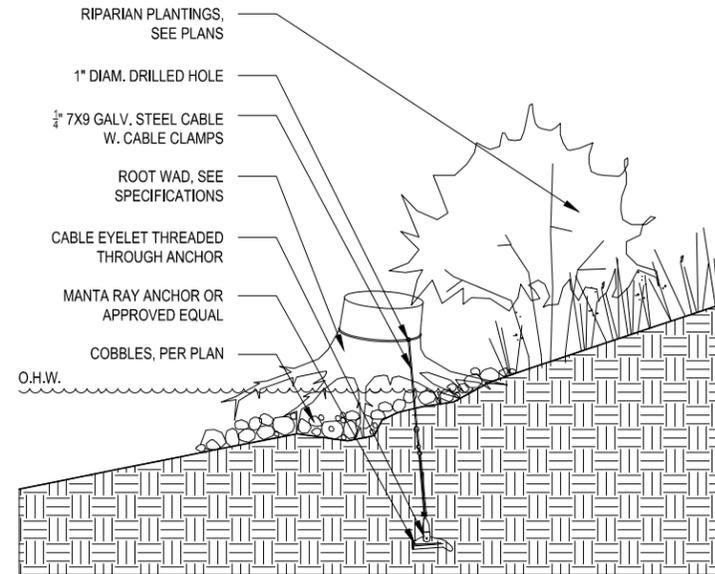
A ROOT WAD WITH WOODY DEBRIS
SCALE: 1/2" = 1'-0"



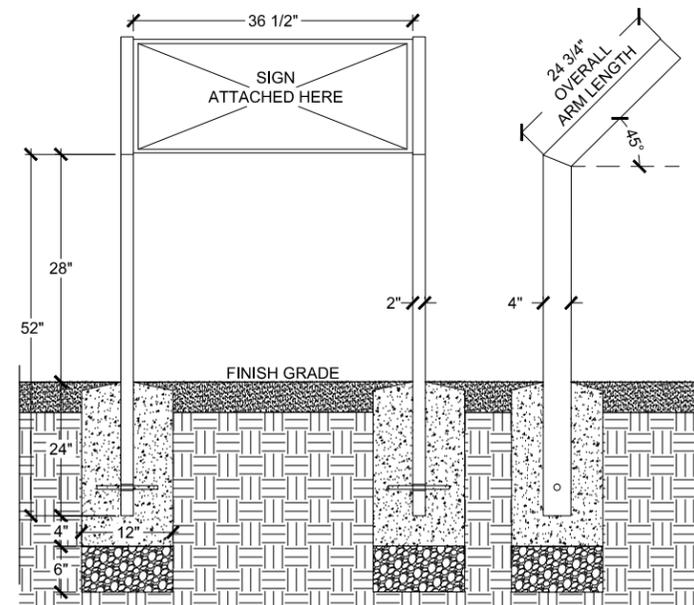
B SCRAMBLING PATH
SCALE: 1/4" = 1'-0"



C GROUNDCOVER SPACING
SCALE: 1/2" = 1'-0"



D ROOT WAD
SCALE: 1/2" = 1'-0"



E SIGN
SCALE: 1" = 1'-0"



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

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proj dir	
field bk no	

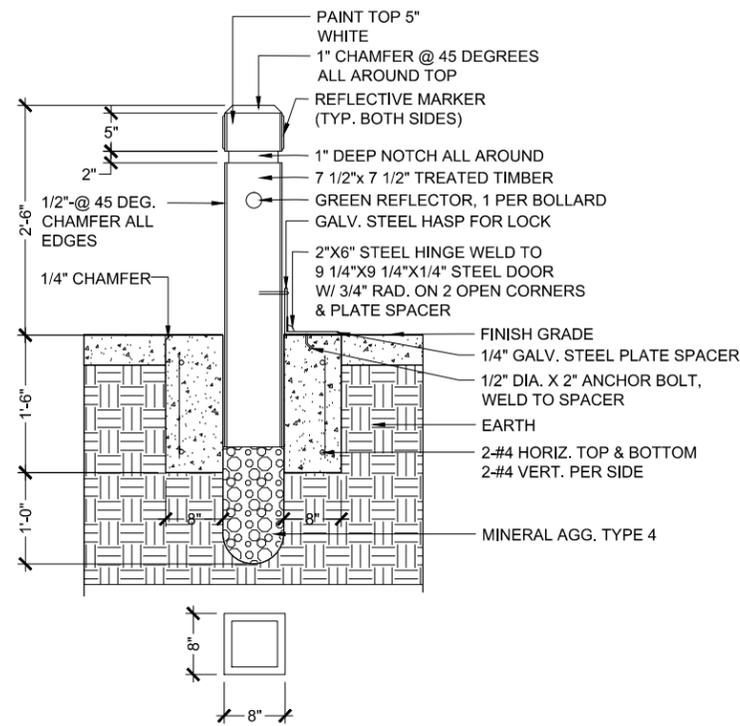


DUWAMISH GARDENS
DETAILS: MISC.

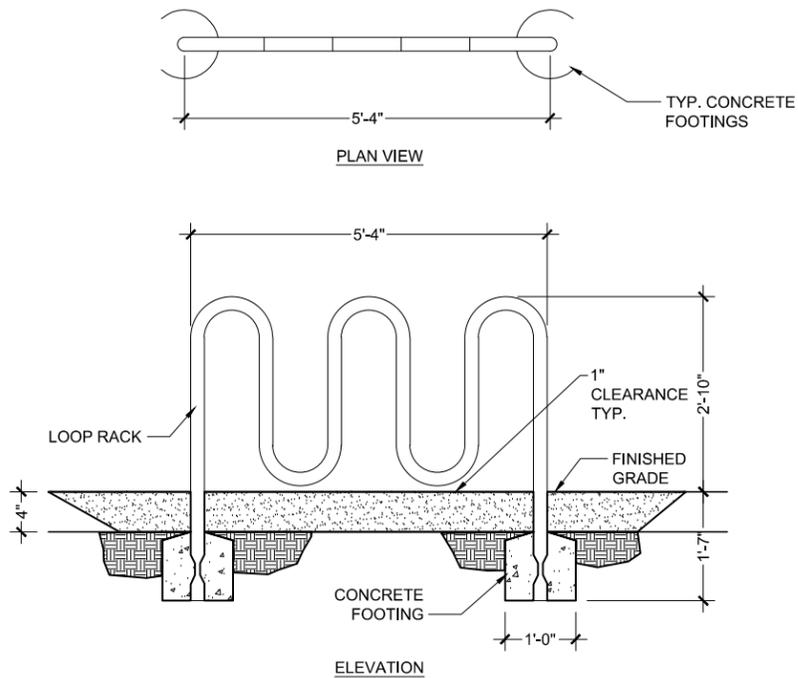
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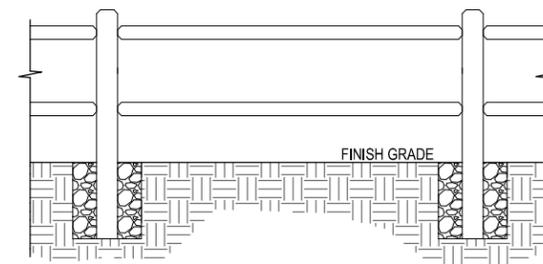
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date



A REMOVABLE BOLLARD
SCALE: 1" = 1'-0"

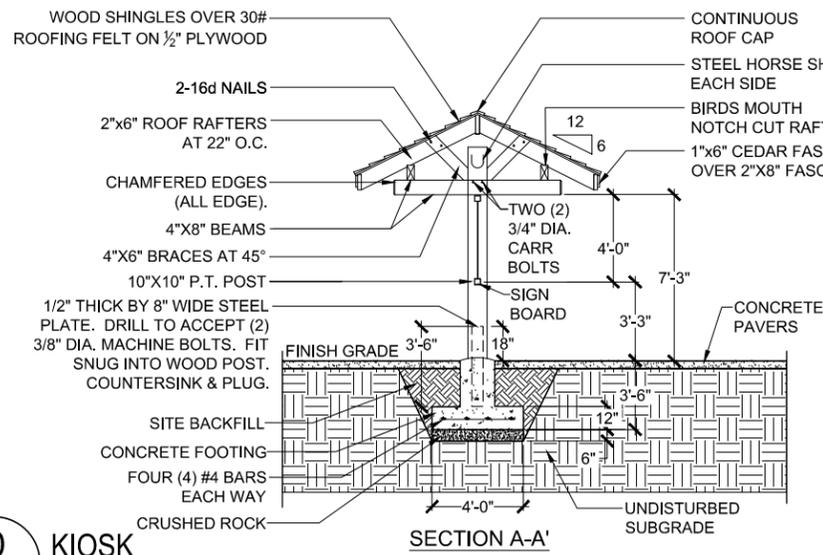


B BIKE RACK
SCALE: 3/4" = 1'-0"

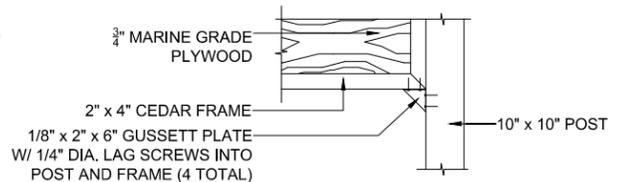
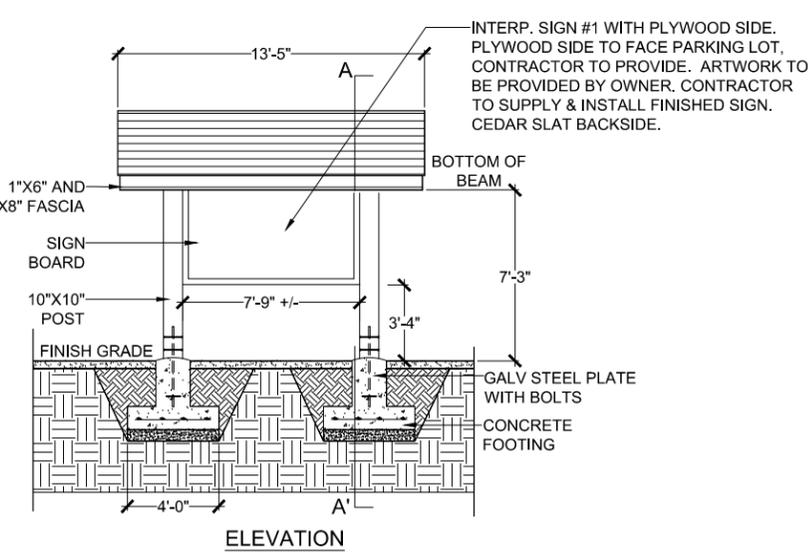


C PINE RAIL FENCE
SCALE: 1/2" = 1'-0"

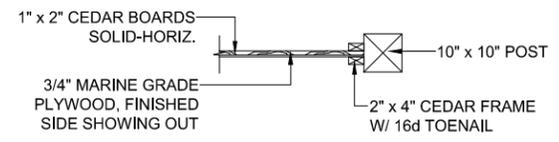
NOTE: PROVIDE END POSTS AND CORNER POSTS AS SHOWN ON PLANS.



D KIOSK
SCALE: 1/4" = 1'-0"



SIGN BOARD ELEVATION



SIGN BOARD PLAN



PUBLIC WORKS DEPT.
-ENGINEERING-STREETS-WATER-SEWER-PARKS-BUILDING-

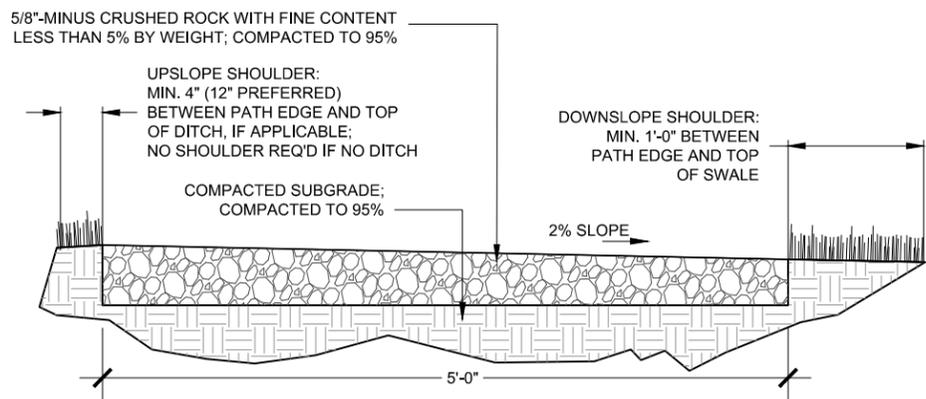
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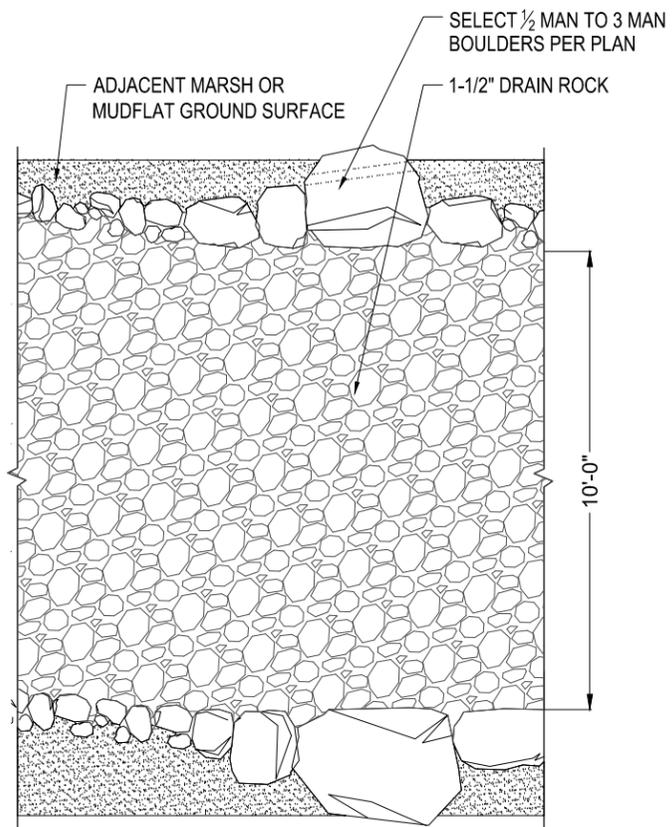
DUWAMISH GARDENS
DETAILS: SITE AMENITIES

no	date	revisions

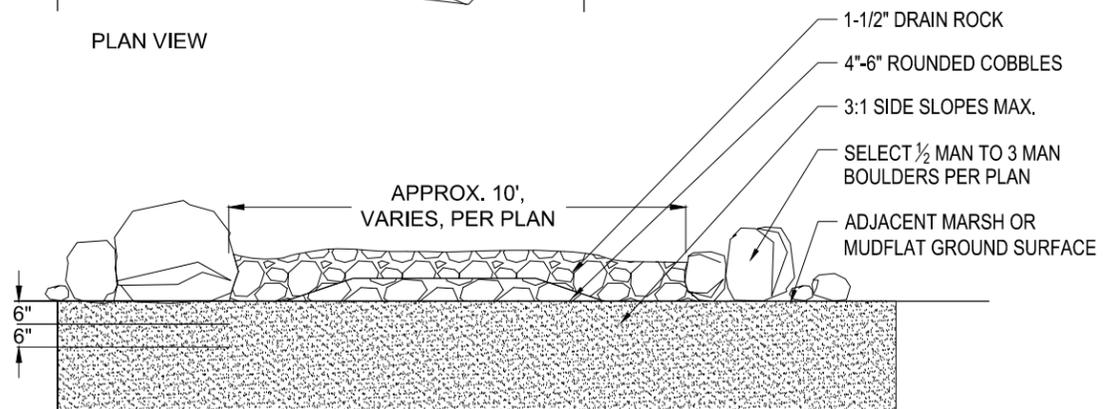
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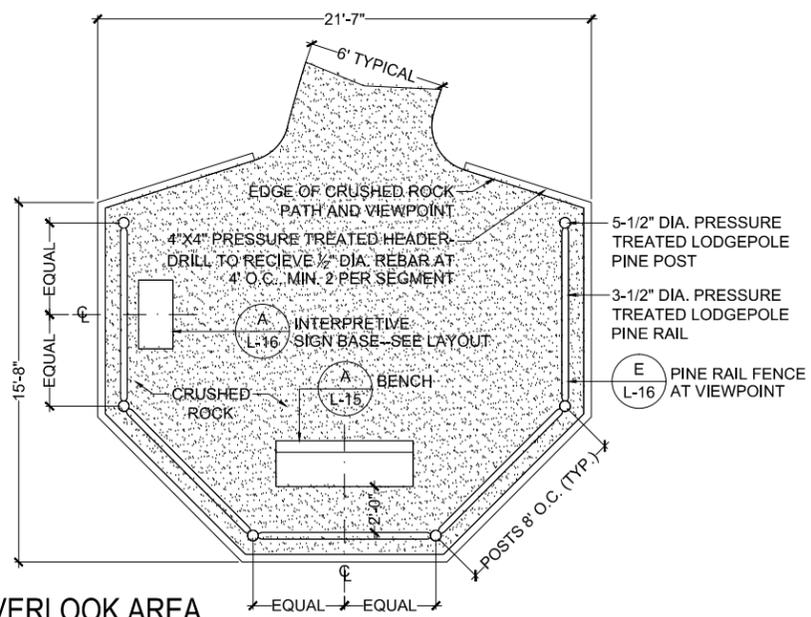
A CRUSHED ROCK PAVING
 SCALE: 1 1/2" = 1'-0"



PLAN VIEW



SECTION VIEW



B OVERLOOK AREA
 SCALE: 1/4" = 1'-0"

C COBBLE SPIT WAVE DEFLECTOR
 SCALE: 1/2" = 1'-0"



by	date
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drawn	DS
checked	
proj eng	
proj dir	
field bk no	



no	date	revisions