

# BOAT LAUNCH AT DON ARMENI PARK

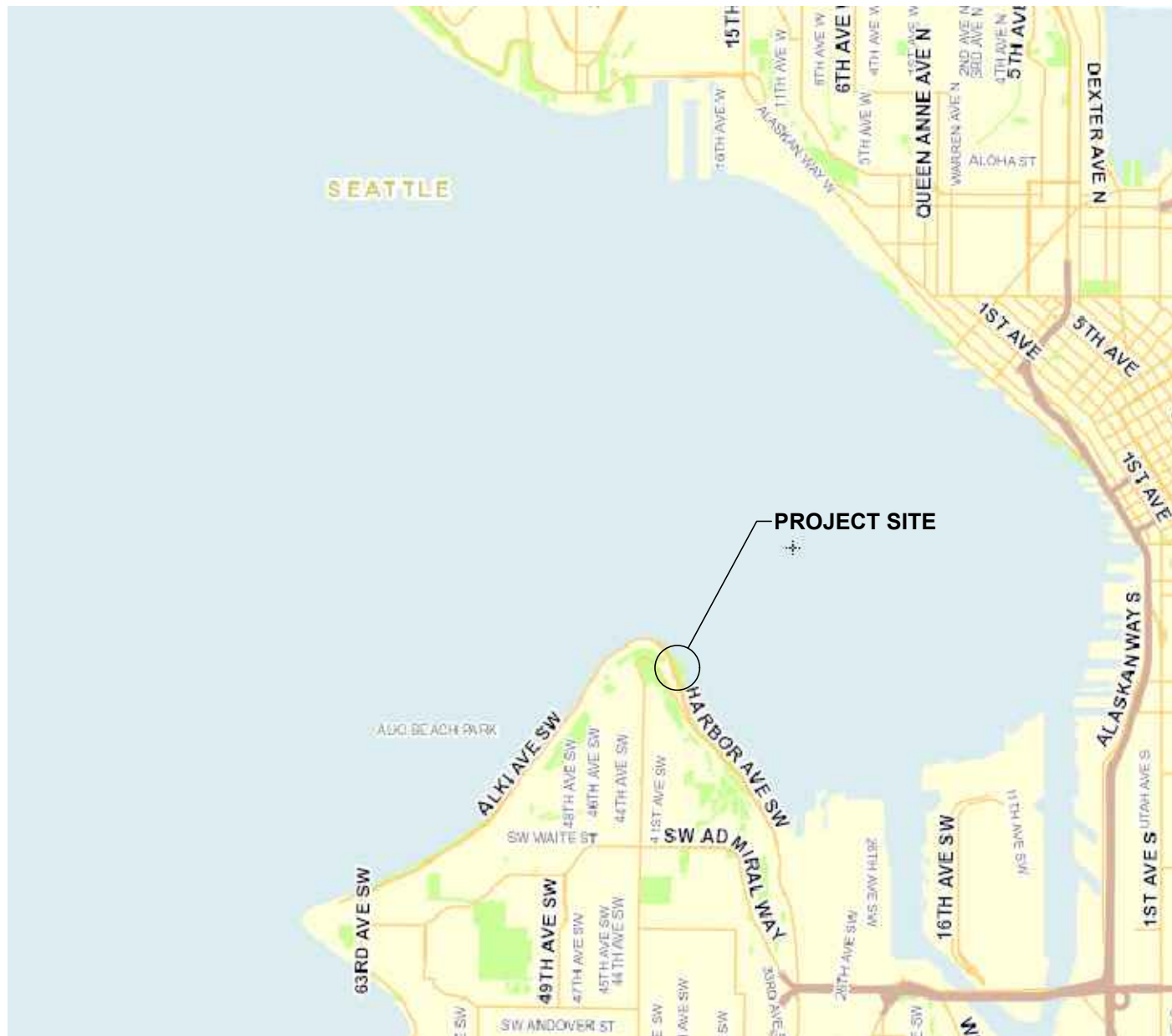
CITY of SEATTLE PARKS & RECREATION DEPARTMENT

CONTRACT NO.: XXXX

PW NO.: 200X-XXX

ORDINANCE NO.: XXXXXX

## LOCATION MAP



TIDAL DATUM MLLW
HOWL (HIGHEST OBSERVED WATER LEVELS) = 14.50
MHHW = 11.35
MHW = 10.49
MLLW = 0.00
ELW (EXTREME LOWEST TIDE) = -4.50

## PROPERTY OWNER

SEATTLE PARKS AND RECREATION  
800 MAYNARD AVE SOUTH  
SEATTLE, WA 98134-1336

## PARCEL NO.

7666706950  
7666706952

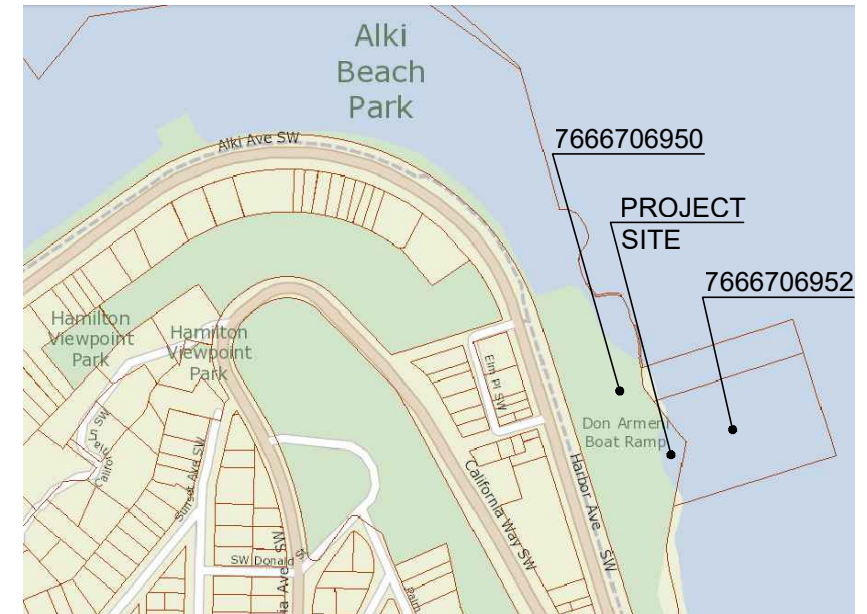
## LEGAL DESCRIPTION

PARCEL 7666706950 - SEATTLE TIDE LANDS EXT #1 BLK 452 TOGETHER WITH LOTS 6 - 7 BLOCK 452 A TOGETHER WITH ALL OF BLOCKS 453-456- 457-457A - 460 - 460A -461 - 461A - 464 - 464A - 465 - 465A - 466 SD PL TOGETHER WITH BLOCK 17 1ST PLAT OF WSL & I CO TOGETHER WITH A PORTION OF VACATED STREETS ADJACENT - TOGETHER WITH A PORTION OF SEC 10-24-3 & TIDE LANDS LYING SOUTHEASTERLY OF SAID BLOCK 466 & NORTHWESTERLY OF ALKI AVE SW & NORTHEASTERLY OF ALKI PT ADD & SOUTHWESTERLY OF SAID BLOCK 465 TOGETHER WITH PORTIONS OF VACATED STREETS ADJACENT TOGETHER WITH A PORTION OF PETER WICKSTROM TRACTS UNRECORDED LYING NORTHWESTERLY OF ALKI AVE TOGETHER WITH A PORTION OF GOVT. LOT 1 ADJACENT TO SAID BLOCK 453 & VACATED MARYLAND PLACE & LYING BETWEEN INNER & OUTER HARBOR LINES - IF ANY TOGETHER WITH LOTS A THRU 4 OF ALKI POINT.

PARCEL 7666706952 - SEATTLE TIDE LANDS AREA IN FRONT OF ABOVE LOTS - SEE MINORS 6940 & 6950

**NWS-2018-1191-WRD**

## PROJECT VICINITY



NOT TO SCALE

SYMBOLS	
DETAIL CALLOUT	
SECTION CALLOUT	

## DRAWING INDEX

SHEET #	SHEET DESIGNATION	SHEET TITLE
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6	S-4	EXISTING CONCRETE RAMP DETAILS
7	S-5	TESC PLAN
8	S-6	TESC DETAILS
9	S-7	PROPOSED SITE PLAN
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12	S-10	CONCRETE ABUTMENT

APPROVED FOR ADVERTISING:  
Kenneth J. Nakatsu  
Director of Executive Administration  
Seattle, Washington \_\_\_\_\_ 20\_\_\_\_  
By: \_\_\_\_\_  
Director, Contracting Services Division

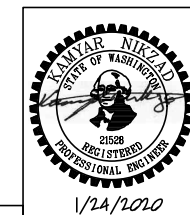
REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_



**kpff** 1601 5th Avenue, Suite 1600  
Seattle, WA 98101  
206.622.5822  
www.kpff.com

**BOAT LAUNCH  
DON ARMENI PARK**

<b>COVER SHEET</b>	
DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 1 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	G-1
CONTRACT NO. -	
SCALE AS SHOWN	



PERMIT SET

**DON ARMENI BOAT RAMP 3033697-LU**  
**ZONING CODE SUMMARY - APPLICABLE PROVISIONS**  
 ADDRESS: 1222 Harbor Ave SW, Seattle, WA 98116  
 ZONING: MR  
 SHORELINE: CM  
 ECA: Steep Slope, Potential Liquefaction Area, Flood Prone

Code Title	Code Section	Required	Proposed
General development	23.60A.152.A	All shoreline developments, shoreline modifications, and uses shall be located, designed, constructed and managed to achieve no net loss of ecological functions.	The proposed grated piers and steel pilings replace existing solid piers and creosote treated pilings with an improvement of ecological function.
General development	23.60A.152.B	All shoreline development, shoreline modifications, and uses shall be located, designed, constructed, and managed to avoid, or if that is infeasible, to minimize to the maximum extent feasible, adverse impacts or interference with beneficial natural shoreline processes such as water circulation, littoral drift, sand movement, or erosion.	The proposed grated piers and steel pilings are designed and will be located to minimize adverse impacts or interference with beneficial natural shoreline processes.
General development	23.60A.152.C	All shoreline developments, shoreline modifications, and uses shall be located, designed, constructed, and managed to prevent the need for shoreline defense and stabilization measures and flood protection works.	No additional shoreline armoring is proposed; 130 lineal feet of shoreline armoring is being permanently removed at Lowman Beach Park.
General development	23.60A.152.D	Dredging	No dredging is proposed
General development	23.60A.152.E	Surrounding Use	The proposed boat ramp repairs are consistent with the surrounding park and recreation public use

Code Title	Code Section	Required	Proposed
		provided at recreational marinas, commercial marinas, vessel repair facilities, marine service stations and any use regularly servicing vessels that have petroleum product capacities of 10,500 gallons or more.	
General development	23.60A.152.T	Construction and repair work shall use best management practices to prevent the entry of debris and other waste materials into any water body.	Prior to project construction, the contractor will be required to develop a Spill Plan to address potential entry of debris and other waste materials into Elliott Bay.
General development	23.60A.152.U	Construction staging.	Construction staging will take place above OHW in the existing paved parking area adjacent to the boat ramp.
General development	23.60A.152.V	Fish kill.	In the event of a fish kill, SPR will halt project work and alert the appropriate agencies.
General development	23.60A.152.W	Navigation channels.	The project does not propose any obstruction in navigation channels.
General development	23.60A.152.X	Water-dependent use.	The boat ramp and associated piers is a water-dependent use.
General development	23.60A.152.Y	Open areas for boat storage.	The project does not propose open areas for boat storage.
Standards for boat launch and landing facilities	23.60A.175	The proposed replacement piers are an allowed use in the CM environment.	The proposed replacement piers are an allowed use in the CM environment and meets the intent of this code requirement by avoiding substrate suitable for forage fish spawning

Code Title	Code Section	Required	Proposed
General development	23.60A.152.F	Public health and safety	The project is not expected to compromise public health or safety. The proposed replacement piers and pilings will be designed to current code standards.
General development	23.60A.152.G	Disturbed areas	Disturbed areas are limited to the boat launch; no areas of native vegetation will be disturbed. Existing paved areas can be used for construction staging
General development	23.60A.152.H	Best Management Practices	BMPs will be used pursuant to DR 16-2009, Construction Stormwater Control Technical Requirements, to control impacts during construction.
General development	23.60A.152.I	Ground and surface water	The project will be designed, constructed, and operated to protect the quality and quantity of ground and surface water.
General development	23.60A.152.J	Aquatic habitat	The proposed piers are designed and will be located, constructed, and managed to avoid adverse impacts to aquatic habitat, such as increased salmonid predator habitat and adverse impacts due to shading, to the maximum extent feasible. Construction will be limited to the times of the year when construction will have the least impact on migrating salmonids as set by WDFW and the U.S. Army Corps of Engineers

Code Title	Code Section	Required	Proposed
			pursuant to subsection 23.60A.160.B.
Height	23.60A.228	Max. height is 30 feet.	The piers and pilings will be no more than twenty-five (25) feet above the surface of the water at Mean Lower Low Water (MLLW)
Lot Coverage	23.60A.230	Max. lot coverage is 35% of lot area.	The piers and pilings will cover no more than one (1) % of the lot
Shoreline setbacks	23.60A.232	Setbacks	Boat launching and piers are allowed as proposed.
View corridors	23.60A.234	A view corridor or corridors of not less than 35 percent of the width of the lot is required.	The proposed floating piers sit on the water and will not block any views
Regulated public access	23.60A.236	Public access on private lots	Not applicable – the piers are located on public property and provide public access to Elliott Bay.

Code Title	Code Section	Required	Proposed
General development	23.60A.152.K	Durable non-toxic materials	The proposed piers and pilings will be constructed of durable, non-toxic components and materials
General development	23.60A.152.L	Creosote	Existing creosote treated piles will be removed; new piles will be steel
General development	23.60A.152.M	Covered moorage or boat sheds.	The project does not propose covered moorage or boat sheds.
General development	23.60A.152.N	Light transmitting features	Light transmitting features will be incorporated into the new piers.
General development	23.60A.152.O	Tires.	The project design does not use tires.
General development	23.60A.152.P	Foam	To the extent foam is used as flotation for the new piers, it will be encapsulated within a shell that prevents breakup or loss of the foam material into the water and that is not readily subject to damage by ultraviolet radiation or abrasion.
General development	23.60A.152.Q	Artificial light	No artificial light on the pier, all existing lighting is adjacent pole mounted parking lot / area lighting for facility
General development	23.60A.152.R	The release of oil, chemicals, solid waste, untreated effluents, or other hazardous materials onto or into the water is prohibited.	Spill kits will be on site during construction, during operation of the boat launch, it is the responsibility of individual vessel owners to address spills on the floating dock
General development	23.60A.152.S	Facilities, equipment and established procedures for the containment, recovery and mitigation of spilled petroleum products shall be	The project is not a marina or vessel repair facility

APPROVED FOR ADVERTISING:  
 Kenneth J. Nakatsu  
 Director of Executive Administration  
 Seattle, Washington \_\_\_\_\_ 20\_\_\_\_\_  
 By: \_\_\_\_\_  
 Director, Contracting Services Division

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
 PARK ENGINEER \_\_\_\_\_

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

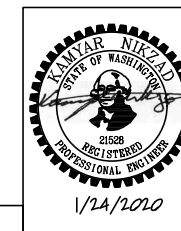


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**BOAT LAUNCH  
 DON ARMENI PARK**

**ZONING CODE SUMMARY**

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 2 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	G-2
CONTRACT NO. -	
SCALE AS SHOWN	



**NWS-2018-1191-WRD**

PERMIT SET

## GENERAL

- THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT COMPLETE FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICT.
- ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY FIELD MEASUREMENT BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL SHOP DRAWINGS FOR PRECAST CONCRETE ELEMENTS, REINFORCING STEEL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.
- CONFLICTING REQUIREMENTS: IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, AT THE DISCRETION OF THE ENGINEER, THE MORE STRINGENT PROVISION SHALL GOVERN.

## CODES AND STANDARDS

- ALL METHODS AND MATERIALS SHALL CONFORM TO IBC 2010, AS AMENDED AND ADOPTED BY THE CITY OF SEATTLE.
- REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), 2011.
- WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND PLANS, 2012.
- ALL STRUCTURAL DESIGN AND CONSTRUCTION SHALL COMPLY WITH ANSI/AISC 341-LATEST EDITION REQUIREMENTS.

## SOILS

GEOTECHNICAL REPORT BY SEATTLE PUBLIC UTILITIES, GEOTECHNICAL ENGINEERING AUGUST 14, 2015

## PILING

- CONTRACTOR SHALL BE FAMILIAR WITH DRIVING CONDITION INDICATED IN SOIL REPORT.
- PILES SHALL BE DRIVEN TO MINIMUM EMBEDMENT OF 30 FEET.
- STEEL PILING CONFORMING TO ASTM A252, GRADE III WITH YIELD STRENGTH OF 50 KSI.
- ALL PILES SHALL BE GALVANIZED PER SECTION 05126 OF THE SPECIFICATIONS.

## CONCRETE

- REINFORCING STEEL**
  - ALL REINFORCING STEEL, EXCEPT AS NOTED OTHERWISE, SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615, GRADE 60.
  - PROTECTIVE CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	COVER
CONCRETE FLOATS	1 1/2" (TO STIRRUPS OR TIES) 1 1/2" (TO LONGITUDINAL BARS)
OTHER BARS	2"
- LAP REINFORCING BARS PER ACI 2011.
- MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE YIELD STRENGTH OF THE BAR IN TENSION.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315 LATEST ADDITION.

## CAST-IN-PLACE CONCRETE

- CONCRETE

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS	5000 PSI
- ALL EXPOSED CORNERS SHALL BE TOOLED 1/2 IN CHAMFER.
  - CONCRETE MIX SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.40 UNLESS NOTED OTHERWISE.
  - AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260. AIR ENTRAINMENT IN CONCRETE SHALL BE 5% ± 1 1/2% UNLESS NOTED OTHERWISE.
  - ALL CIP CONCRETE SHALL BE BROOMED FINISH IN ACCORDANCE TO SPECIFICATIONS UNLESS NOTED OTHERWISE.

## GROUT

- ALL GROUT SHALL BE NON-SHRINK. MINIMUM COMPRESSIVE STRENGTH FOR GROUT SHALL BE 8000 PSI AT 28 DAYS.

## MISCELLANEOUS STEEL

- ALL MISCELLANEOUS STEEL SHAPES AND PLATES, EXCEPT AS NOTED BELOW, SHALL CONFORM TO ASTM A 36.
- ALL BOLTS AND NUTS SHALL CONFORM TO ASTM A 307, GRADE 36, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- ALL STEEL, INCLUDING BOLTS, INSERTS, NUTS, CHAINS, CLEATS, HANGERS AND CONNECTORS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH SPECIFICATIONS AND ASTM A153 AND A123 TO A MINIMUM OF 2 OZ/SF UNLESS INDICATED OTHERWISE. DAMAGE DUE TO FIELD WELDING SHALL BE RESTORED WITH FIELD-APPLIED GALVANIZING WELD STICK (SEE SPECIFICATIONS).
- WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AWS D1.1.
- ALL MISCELLANEOUS SLEEVES SHALL CONFORM TO ASTM A 53, GRADE B.
- ALL STEEL TUBING SHALL BE ASTM A 500 GRADE B UNO.
- ALL WELDERS ARE REQUIRED TO BE CERTIFIED BY WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO).
- WELDING OF ALUMINUM SHALL CONFORM TO AWS D1.2, 2003.
- ANY FILLET WELD NOT SHOWN SHALL BE 3/16 INCH OR MINIMUM REQUIRED BY AWS.

## BIRD CAPS

ALL BIRD CAPS SHALL BE WHITE FIBERGLASS, INNOVATION INDUSTRIES (1-800-444-9760) OR QPROVED EQUAL.

## FLOAT MATERIAL

- CONTRACTOR MAY PROPOSE A DIFFERENT MATERIAL FOR THE FLOAT THAN CONCRETE SHOWN ON CONTRACT DRAWINGS; HOWEVER, THE PERFORMANCE, FUNCTIONALITY AND SUPPORT REQUIREMENTS (NUMBER AND SPACING OF SUPPORTING GUIDE PILE, ETC.) LONGEVITY SHALL REMAIN UNCHANGED AND SHALL BE APPROVED BY THE ENGINEER.

## ALUMINUM

ALL STRUCTURAL ALUMINUM, INCLUDING TUBES, PLATES, ANGLES AND PIPE SHALL BE ALLOY 6061-T6. ALL BOLTS FOR ALUMINUM CONSTRUCTION SHALL BE STAINLESS STEEL APPROPRIATE FOR USE WITH ALUMINUM IN MARINE ENVIRONMENTS. UHMW POLYETHYLENE ISOLATORS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.

## TIMBER

### SAWN LUMBER

SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES" WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE THE SPECIES AND GRADE NOTED BELOW. DESIGN STRESSES ARE BASED ON NDS LATEST EDITION. ALL TIMBER DIMENSIONS SHOWN ON THE DRAWINGS ARE NOMINAL SIZES UNLESS NOTED OTHERWISE.

USE	GRADE	Fb(Psi) (SINGLE USE)
CONCRETE FLOATS WALERS	DOUGLAS FIR-LARCH NO. 1	1200
OTHER LUMBER NOT LISTED	DOUGLAS FIR-LARCH NO. 1	1000

## DESIGN LOADS

- LIVE LOAD:**
  - CONCRETE FLOAT - UNIFORMLY DISTRIBUTED LIVE LOAD = 40 PSF
  - ONE CONCENTRATED LIVE LOAD OF 400 POUNDS ON ANY 12"x12" AREA.
  - CONCRETE ABUTMENT = 100 PSF = 100 PSF

### 2. DEAD LOAD: (NEW PIER)

CONCRETE	160 PCF
STEEL	490 PCF
TIMBER	40 PCF

## FLOAT DESIGN

DESIGN WAVE HEIGHT (H <sub>1</sub> )	=	2.3' FEET
DESIGN WAVE PERIOD	=	2.4' SECOND
DESIGN WAVE LENGTH	=	29.5' FEET
FREE BOARD	=	18" INCH UNDER FLOAT DEAD LOAD

## TIDAL RANGE AND DATUM

VERTICAL DATUM = MEAN LOWER-LOW WATER (MLLW) = 0.00  
 HOWL (HIGHEST OBSERVED WATER LEVELS) = 14.50  
 MHHW = 11.35  
 MHW = 10.49  
 MLLW = 0.00  
 ELW (EXTREME LOWEST TIDE) = -4.50

HORIZONTAL DATUM =

## UHMW AND HDPE

UHMW AND HDPE SHALL CONFORM TO SPECIFICATION AND HAVING UV-STABILIZED DYES. UHMW SHALL BE MADE OF 2 1/2% UV (ULTRAVIOLET) STABILIZED, VIRGIN UHMW.

## CIVIL / STRUCTURAL DRAWING ABBREVIATIONS

AB	ANCHOR BOLT	LP	LOW POINT
AC	ASPHALT CONCRETE/ACRE	LT	LEFT
ACP	ASPHALT CONCRETE PAVEMENT	LVL	LAMINATED VENEER LUMBER
ADD'L	ADDITIONAL	MAX	MAXIMUM
ADJ	ADJUSTABLE	M/E	MATCH EXISTING
AGG	AGGREGATE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MH	MANHOLE
AL	ALUMINUM	MIN	MINIMUM
ANCH	ANCHOR	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MJ	MECHANICAL JOINT
B/	BOTTOM OF	MOM	MOMENT
BC	BOTTOM OF CURB	NIC	NOT IN CONTRACT
BLDG	BUILDING	NOM	NOMINAL
BLK	BLOCKING	N	NORTH, NORTHING
BM	BEAM	NO	NUMBER
BOT	BOTTOM	NS	NEAR SIDE, NONSHRINK
BRG	BEARING	NTS	NOT TO SCALE
BTWN	BETWEEN	OC	ON CENTER
BUR	BUILT-UP ROOFING	OD	OUTSIDE DIAMETER
CAP	CAPACITY	OF	OF
CB	CATCH BASIN	OHW	ORDINARY HIGH WATER
CC	CENTER TO CENTER	OLLW	ORDINARY LOW WATER
CIP	CAST IN PLACE CONCRETE	OPNG	OPENING
CJ	CONSTRUCTION OR CONTROL JOINT	OPP	OPPOSITE
CL	CENTERLINE	PDP	PLAN DIMENSION POINT
CLG	CEILING	P	PUMP
CLR	CLEAR	PC	PIECE/POINT OF CURVATURE
CMP	CORRUGATED METAL PIPE	PEN	PENETRATION
CMU	CONCRETE MASONRY UNIT	PIV	POST-INDICATOR VALVE
CO	CLEANOUT	PNT	COORDINATE POINT
COL	COLUMN	PL	PLATE
CONC	CONCRETE	PL	PROPERTY LINE
CONN	CONNECTION	PLWD	PLYWOOD
CONST	CONSTRUCTION	PNL	PANEL
CONT	CONTINUOUS	PP	PARTIAL PENETRATION
CONTR	CONTRACTOR	PSI	POUNDS PER SQUARE INCH
COORD	COORDINATE	PSF	POUNDS PER SQUARE FOOT
CP	COMPLETE PENETRATION	PT	POINT/POINT OF TANGENCY
CTR	CENTER	PVC	POLYVINYL CHLORIDE/POINT OF VERTICAL CURB
CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
DB	DIVIDER BEAM	PVMT	PAVEMENT
DBA	DEFORMED BAR ANCHOR	PVT	POINT OF VERTICAL TANGENCY
DBL	DOUBLE	R	RADIUS
DET	DETAIL	RCP	REINFORCED CONCRETE PIPE
DF	DOUGLAS FIR	RED	REDUCER
DIA	DIAMETER	REINF	REINFORCING
DIAG	DIAGONAL	REMA	REMAIN(ER)
DIP	DUCTILE IRON PIPE	REQ'D	REQUIRED
DKG	DECKING	RJ	RESTRAINED JOINT
DL	DEAD LOAD	RO	ROUGH OPENING
DO	DITTO	RND	ROUND
DN	DOWN	RT	RIGHT
DWF	DEFORMED WIRE FABRIC	RTN	RETURN
DWG	DRAWING	SC	SLIP CRITICAL
DWL	DOWEL	SCHED	SCHEDULE
E	EAST, EASTING	SD	STORM DRAIN
EA	EACH	SEC	SECOND
EF	EACH FACE	SECT	SECTION
EL	ELEVATION	SHT	SHEET
ELA	ELASTICITY	SIM	SIMILAR
ELECT	ELECTRICAL	SOG	SLAB-ON-GRADE
ELEV	ELEVATOR	S	SOUTH
EP	EDGE OF PAVEMENT	SP	SPACE
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ	SQUARE
ESC	EROSION AND SEDIMENT CONTROL	SS	STAINLESS STEEL/SANITARY SEWER
EW	EACH WAY	STA	STATION
EX/EXIST	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	STIRR	STIRRUP
FD	FLOOR DRAIN	STL	STEEL
FDN	FOUNDATION	STRUC	STRUCTURAL
FIN	FINISH	SUPP	SUPPORT
FF	FINISH FLOOR	SYM	SYMMETRICAL
FLG	FLANGE	T/	TOP OF
FLR	FLOOR	TB	THRUST BLOCK
FS	FAR SIDE	TC	TOP OF CURB
FT	FEET	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
FTG	FOOTING	TG	TOP OF GRATE
G	GAS	TOB	TOP OF BANK
GA	GAGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
GEN	GENERAL	THK	THICK(NESS)
GL	GLUED LAMINATED BEAM	THRU	THROUGH
GR	GRADE	TRANS	TRANSVERSE
HD	HOT DIPPED	TS	STRUCTURAL TUBE
HF	HEM-FIR	TYP	TYPICAL
HK	HOOK	UBC	UNIFORM BUILDING CODE
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT	VERT	VERTICAL
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
IE	INVERT ELEVATION	W	WATER/WEST
IF	INSIDE FACE	W/	WITH
IN	INCH	WD	WOOD
INT	INTERIOR	WF	WIDE FLANGE
JST	JOIST	WHS	WELDED HEADED STUD
JT	JOINT	WL	WATER LINE
K	KIP (1,000 LBS.)	WM	WATER METER
KSF	KIPS PER SQ. FT.	W/O	WITHOUT
L	LENGTH/LINE	WP	WORK POINT
LF	LINEAL FOOT	WT	STRUCTURAL TEE
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

**NWS-2018-1191-WRD**

APPROVED FOR ADVERTISING:  
Kenneth J. Nakatsu  
Director of Executive Administration

Seattle, Washington \_\_\_\_\_ 20\_\_\_\_

By: \_\_\_\_\_  
Director, Contracting Services Division

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

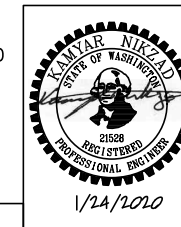


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**BOAT LAUNCH  
DON ARMENI PARK**

## GENERAL NOTES

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 3 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-1
CONTRACT NO. -	
SCALE AS SHOWN	

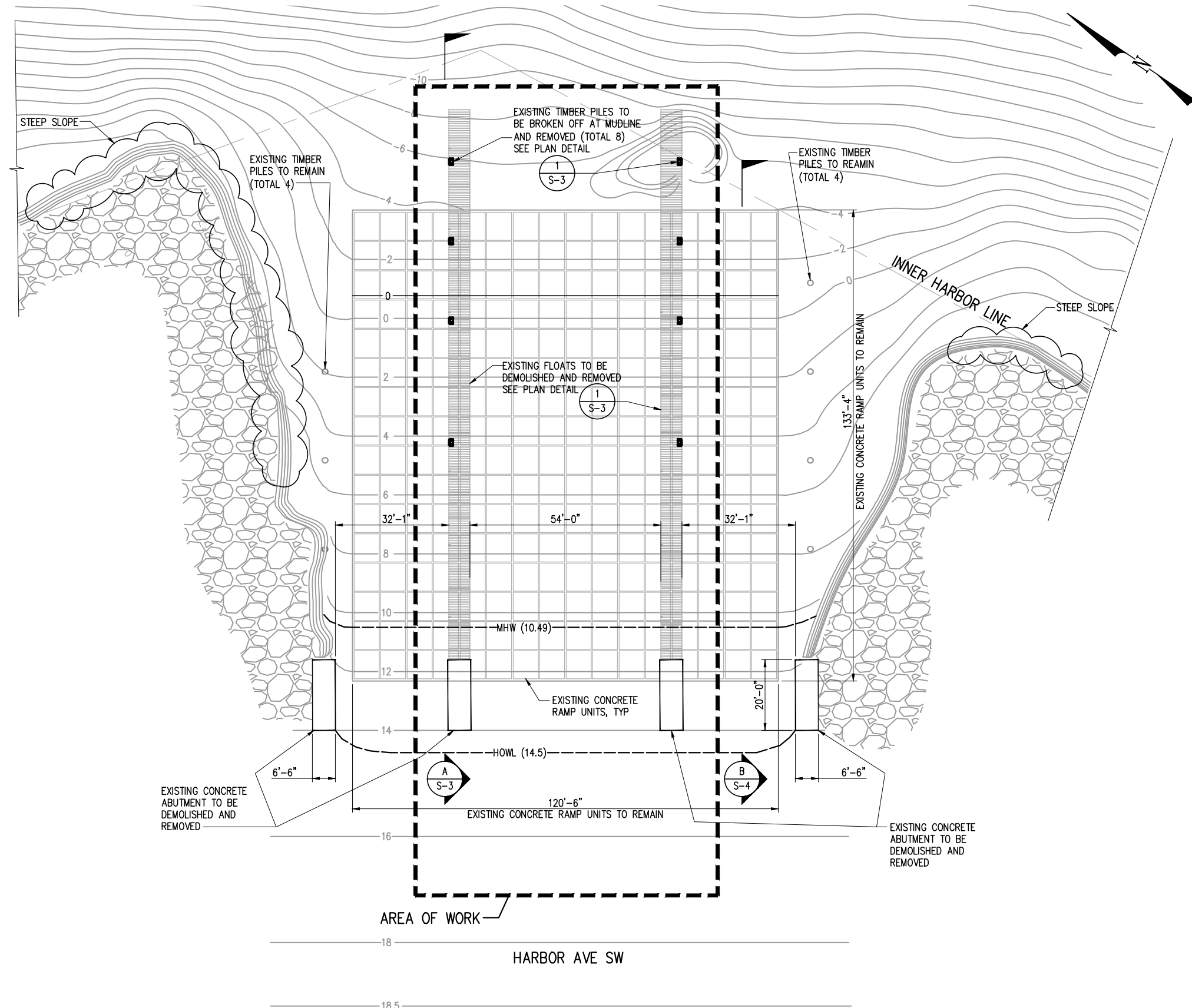


PERMIT SET

**>>>>CAUTION<<<<  
CALL BEFORE YOU DIG!**

NOT LESS THAN TWO OR MORE THAN TEN BUSINESS DAYS PRIOR TO COMMENCING EXCAVATION OR DEMOLITION, SECURE THE SERVICES OF A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND IMPROVEMENTS THAT MAY NOT BE INDICATED ON THE DRAWINGS. FOR IRRIGATION SYSTEMS, CALL SEATTLE PARKS PLUMBING SHOP (206 684 7070)

**>>800 424 5555<<**



- EXISTING UTILITY NOTES:**
1. ALL LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND HAVE BEEN ESTABLISHED FROM AVAILABLE RECORDS AND LIMITED FIELD INVESTIGATIONS. UTILITIES NEED TO BE FIELD VERIFIED BY THE CONTRACTOR BEFORE DIGGING AND DEMOLITION.
  2. ACTIVE ELECTRICAL, DOMESTIC WATER, STORM SEWER, AND SANITARY SEWER UNDERGROUND UTILITY LINES ARE LOCATED IN THE PROJECT AREA AND NEED TO BE PROTECTED.
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NO.	REVISION - AS BUILT	DATE

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_

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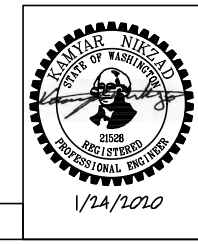


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206.622.5822  
www.kpff.com

**BOAT LAUNCH  
DON ARMENI PARK**

**DEMOLITION SITE PLAN**

DESIGNED <u>K. NIKZAD</u>	DATE <u>JAN 24, 2020</u>
DRAWN <u>M. GREEN</u>	SHEET <u>4</u> OF <u>12</u>
CHECKED <u>K. NIKZAD</u>	
ORDINANCE NO. <u>-</u>	<u>S-2</u>
CONTRACT NO. <u>-</u>	
SCALE <u>AS SHOWN</u>	



**EXISTING/DEMOLITION SITE PLAN**

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

**NWS-2018-1191-WRD**

**PERMIT SET**

CAD USER: rickt PLOT DATE: Jan 24, 2020-12:41pm  
PATH: V:\15180.1 (Seattle Parks)\Don Armeni\Design\QABL-SOZ.dwg

**>>>>CAUTION<<<<  
CALL BEFORE YOU DIG!**

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**>>800 424 5555<<**

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PARK ENGINEER \_\_\_\_\_

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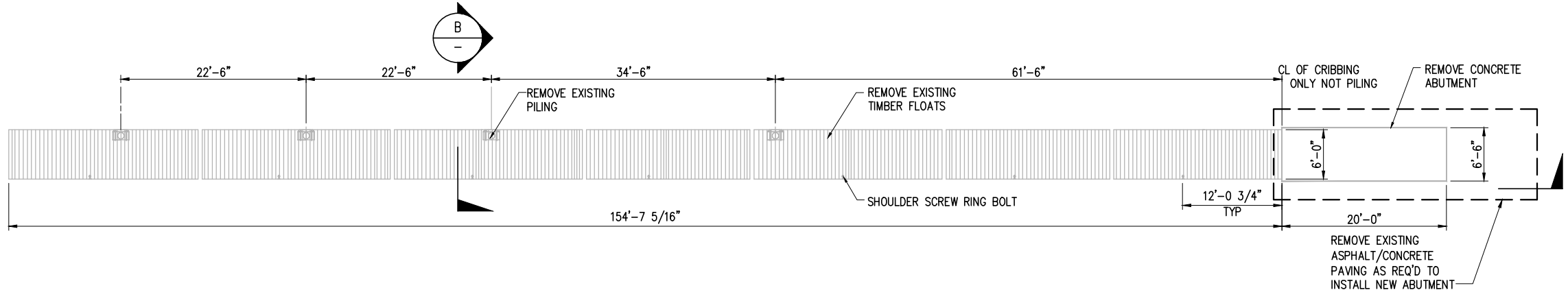
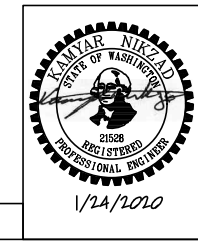


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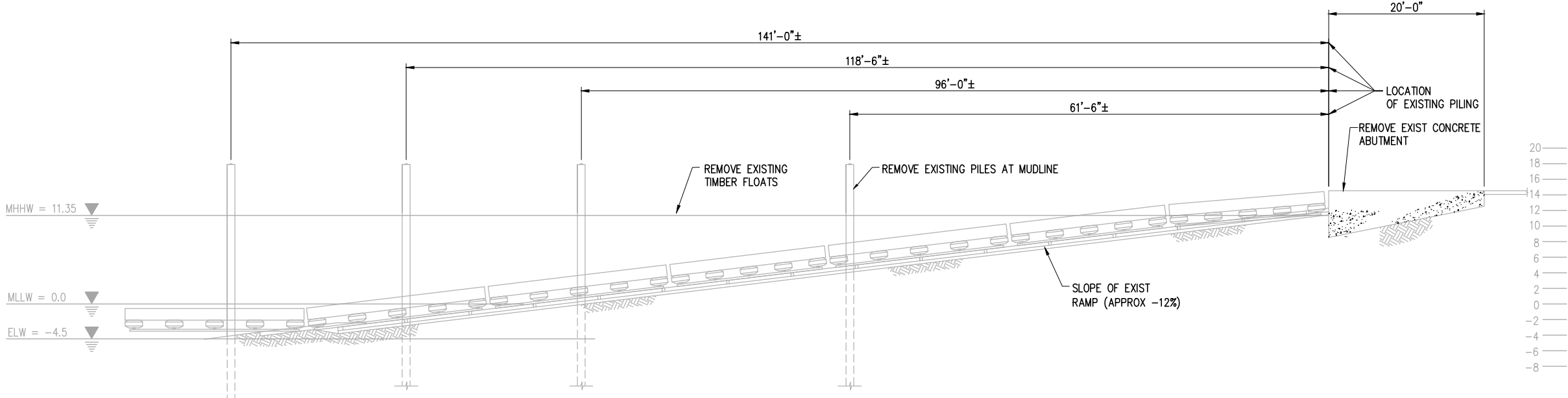
**BOAT LAUNCH  
DON ARMENI PARK**

**DEMOLITION DETAILS**

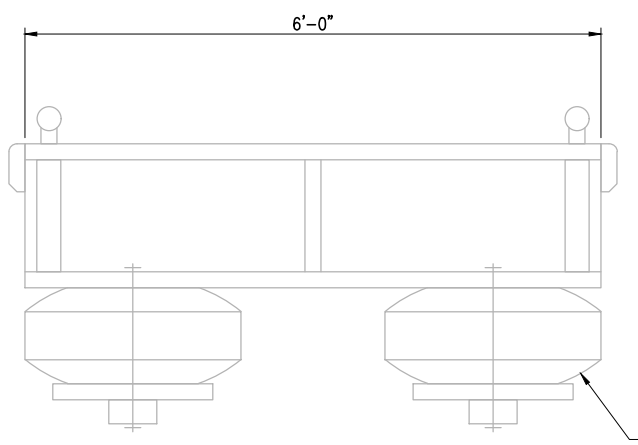
DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 5 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-3
CONTRACT NO. -	
SCALE AS SHOWN	



**EXISTING FLOAT AND PILE DEMOLITION PLAN (1)**  
SCALE: 1/8" = 1'-0"  
(SOUTH FLOAT SHOWN, NORTH FLOAT OPP)



**EXISTING FLOAT AND PILE DEMOLITION ELEVATION (A)**  
SCALE: 1/8" = 1'-0"



**SECTION - EXISTING FLOAT (B)**  
SCALE: 1" = 1'-0"

- NOTES:**
1. THE DIMENSIONS SHOWN ARE BASED ON EXISTING DRAWINGS AND SHALL BE FIELD MEASURED BY CONTRACTOR FOR BIDDING PURPOSES. FOR ADDITIONAL INFORMATION SEE EXISTING DRAWINGS AVAILABLE UPON REQUEST.
  2. CONTRACTOR SHALL FIELD VERIFY THE EXACT QUANTITIES OF FLOAT AND FLOTATION TIRE AND OTHER MATERIAL TO BE DEMOLISHED PRIOR BIDDING.

**NWS-2018-1191-WRD**

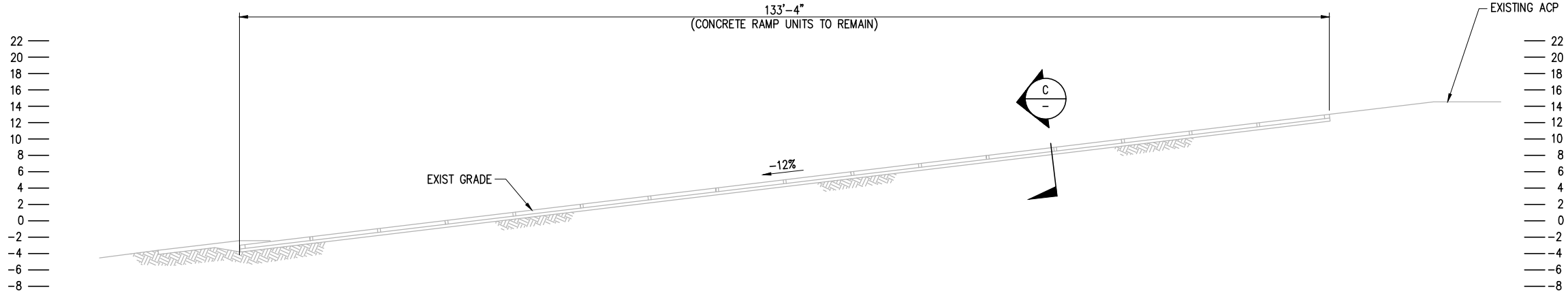
PERMIT SET

CAD USER: rickt PLOT DATE: Jan 24, 2020-12:42pm  
PATH: V:\15180.1 (Seattle Parks)\Don Armeni\Design\04BL-S03.dwg

**>>>>CAUTION<<<<  
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**>>800 424 5555<<**



**EXISTING CONCRETE RAMP ELEVATION** **B**  
SCALE: 1/8" = 1'-0" S-2

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REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_

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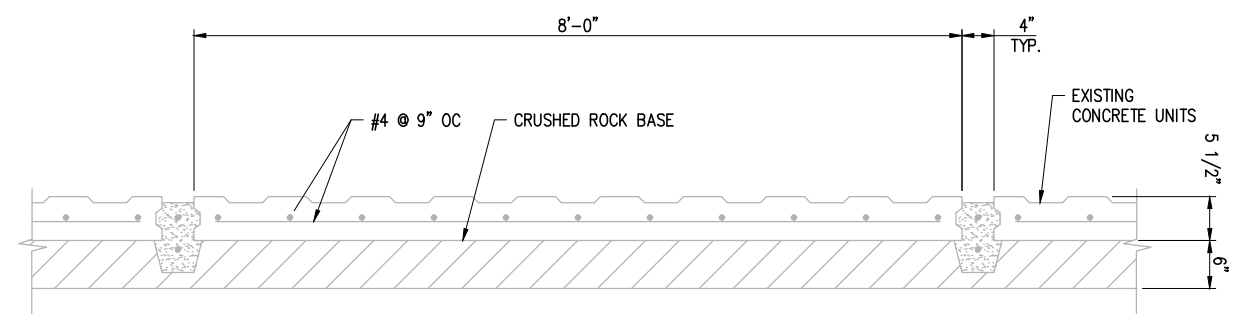


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**BOAT LAUNCH  
DON ARMENI PARK**

**EXISTING CONCRETE  
RAMP DETAILS**

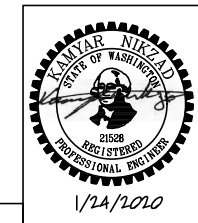
DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 6 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-4
CONTRACT NO. -	
SCALE AS SHOWN	



**SECTION** **C**  
SCALE: 1" = 1'-0"

**NWS-2018-1191-WRD**

**PERMIT SET**



CAD USER: rickt PLOT DATE: Jan 24, 2020-12:42pm  
PATH: V:\15180:1 (Seattle Parks)\Don Armeni\Design\QDABL-S04.dwg

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IMPROVEMENTS THAT MAY NOT BE INDICATED ON THE  
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2. ACTIVE ELECTRICAL, DOMESTIC WATER, STORM  
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UTILITY LINES ARE LOCATED IN THE PROJECT  
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NO.	REVISION - AS BUILT	DATE

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
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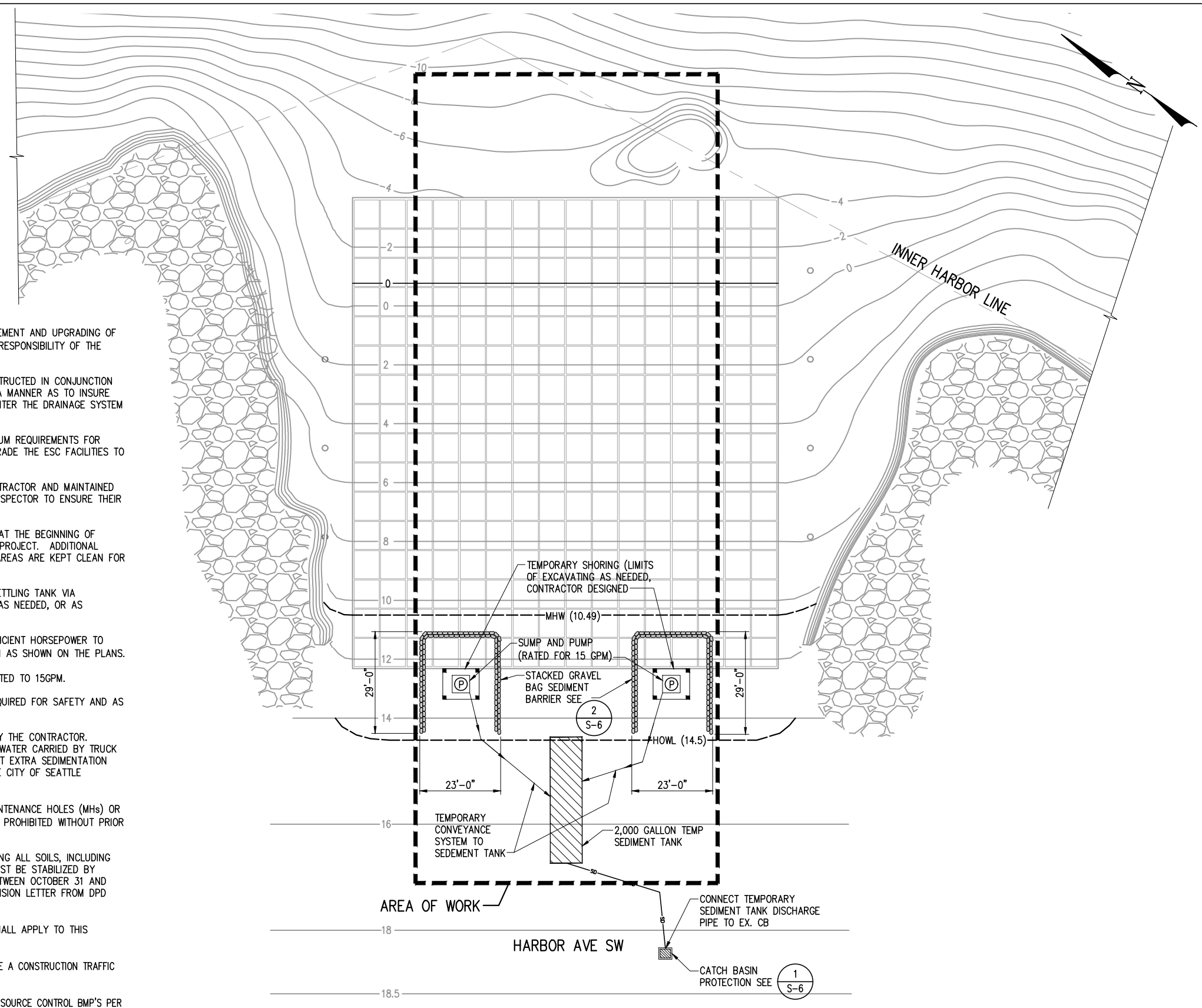
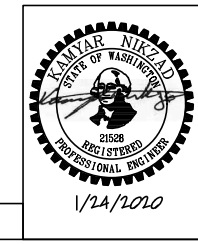


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**BOAT LAUNCH  
DON ARMENI PARK**

**TESC PLAN**

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 7 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-5
CONTRACT NO. -	
SCALE AS SHOWN	



**TESC NOTES**

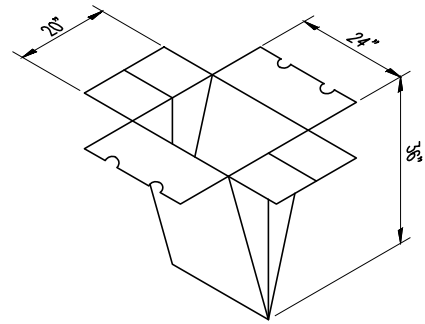
1. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE EROSION SEDIMENT CONTROL (ESC) FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE ESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE, ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
3. THE ESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL UPGRADE THE ESC FACILITIES TO ACCOUNT FOR SEVERE STORM EVENTS.
4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY OR AS DIRECTED BY THE CITY OF SEATTLE INSPECTOR TO ENSURE THEIR CONTINUED FUNCTION.
5. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
6. WATER FROM DISTURBED AREAS SHALL BE DIRECTED TO A SETTLING TANK VIA TEMPORARY DRAINAGE SWALES AND A PUMP, CONSTRUCTED AS NEEDED, OR AS DIRECTED BY THE CITY OF SEATTLE INSPECTOR.
7. THE CONTRACTOR SHALL PROVIDE BACKUP PUMPS WITH SUFFICIENT HORSEPOWER TO DELIVER TREATED WATER INTO THE SIDE SEWER/STORM DRAIN AS SHOWN ON THE PLANS.
8. DISCHARGE TO THE SIDE SEWER/STORM DRAIN SHALL BE LIMITED TO 15GPM.
9. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCING AS REQUIRED FOR SAFETY AND AS DIRECTED BY THE CITY INSPECTOR.
10. CATCH BASINS IN THE STREET SHALL BE INSPECTED DAILY BY THE CONTRACTOR. WATER LEAVING THE SITE DURING CONSTRUCTION, INCLUDING WATER CARRIED BY TRUCK TIRES, SHALL BE CLEAN. THE CONTRACTOR SHALL IMPLEMENT EXTRA SEDIMENTATION CONTROL METHODS AS NECESSARY AND AS DIRECTED BY THE CITY OF SEATTLE INSPECTOR.
11. TEMPORARY CONNECTION TO PUBLIC FACILITIES SUCH AS MAINTENANCE HOLES (MHs) OR CATCH BASINS (CBs) IN THE RIGHT-OF-WAY ARE EXPRESSLY PROHIBITED WITHOUT PRIOR CONSENT BY SPU.
12. CONTRACTOR SHALL PREVENT ON-SITE EROSION BY STABILIZING ALL SOILS, INCLUDING STOCK PILES, THAT ARE TEMPORARILY EXPOSED. GRADING MUST BE STABILIZED BY OCTOBER 31, AND NO EXCAVATION SHALL BE PERFORMED BETWEEN OCTOBER 31 AND APRIL 1 WITHOUT AN APPROVED DRY SEASON GRADING EXTENSION LETTER FROM DPD GEOTECHNICAL ENGINEERING GROUP.
13. ALL NOTES FOUND ON THE CITY'S TESC STANDARD PLANS SHALL APPLY TO THIS PROJECT.
14. FOR CONSTRUCTION INGRESS/EGRESS, CONTRACTOR WILL PRODUCE A CONSTRUCTION TRAFFIC PLAN FOR RIGHT-OF-WAY USE PERMIT.
15. CONTRACTOR SHALL ENSURE, THROUGH PROPER APPLICATION OF SOURCE CONTROL BMP'S PER THE SWPPP, THAT NO TOXIC OR THERMO-POLLUTED WATER ENTERS THE AQUATIC ENVIRONMENT.
16. FIELD LOCATE TEMPORARY SEDIMENT TANK (AS MANUFACTURED BY BAKER OR APPROVED EQUAL). TANK VOLUME SHOWN (2,000 GALLON) IS BASED ON THE 25-YEAR 24-HOUR DESIGN STORM PEAK VOLUME FOR A DISTURBED AREA EQUIVALENT TO THE AREA WITHIN THE LIMITS OF DISTURBANCE. ESTIMATED MINIMUM TOTAL AREA OF DISTURBANCE = 0.035 ACRES. CALCULATED TOTAL STORM VOLUME AREA = 3,150 GALLONS. THE CONTRACTOR IS RESPONSIBLE FOR ADDING ADDITIONAL TANKS SHOULD THE DISTURBED AREA INCREASE. CONTRACTOR SHALL MONITOR DISCHARGE FLOW AND WATER QUALITY OF EFFLUENT INTO THE EXISTING STORM DRAINAGE CATCH BASIN. CONTRACTOR SHALL PROVIDE ADDITIONAL TREATMENT AND/OR FILTRATION AS REQUIRED TO MEET THE CITY OF SEATTLE AND NPDES PERMIT TURBIDITY DISCHARGE REQUIREMENTS.

**TESC PLAN**  
SCALE: 1/16"=1'-0"

**NWS-2018-1191-WRD**

PERMIT SET

CAD USER: rickt PLOT DATE: Jan 24, 2020-12:42pm  
PATH: V:\151801 (Seattle Parks)\Don Armeni\Design\04BL-S05.dwg



**DIRECTIONS FOR USE:**

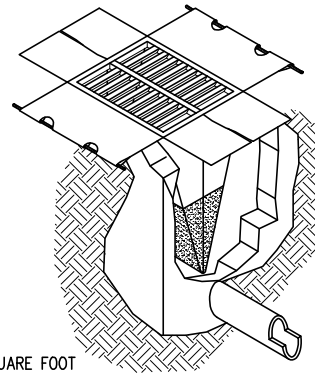
- REMOVE DRAIN GRATE
- INSERT FILTER
- REPLACE GRATE TO HOLD IN POSITION

**SPECIFICATIONS:**

- FILTERS MIN. 3 FEET DEEP
- CONSTRUCTED OF WOVEN POLYPROPYLENE
- SEAMS DOUBLE-STITCHED
- PERMEABILITY-40GAL. PER MINUTE PER SQUARE FOOT
- REUSABLE OR THROW-AWAY

**MAINTENANCE:**

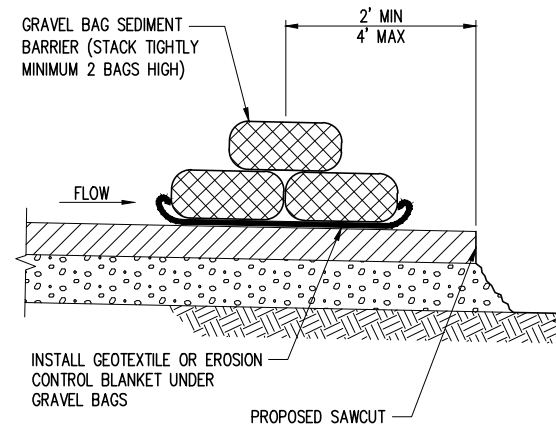
- REMOVE WHEN FILLED TO HALF-WAY MARK (USE FRONT-LOADER OR OTHER EQUIPMENT FOR REMOVAL)
- CLEAN AND RE-USE, OR REPLACE



**CATCH BASIN PROTECTION**

NTS

1  
S-5



**STACKED GRAVEL BAG  
SEDIMENT BARRIER**

NTS

2  
S-5

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**>>800 424 5555<<**

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NO.	REVISION - AS BUILT	DATE

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

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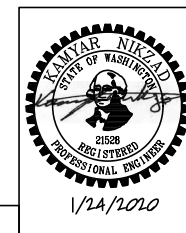


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206.622.5822  
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**BOAT LAUNCH  
DON ARMENI PARK**

**TESC DETAILS**

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 8 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-6
CONTRACT NO. -	
SCALE AS SHOWN	

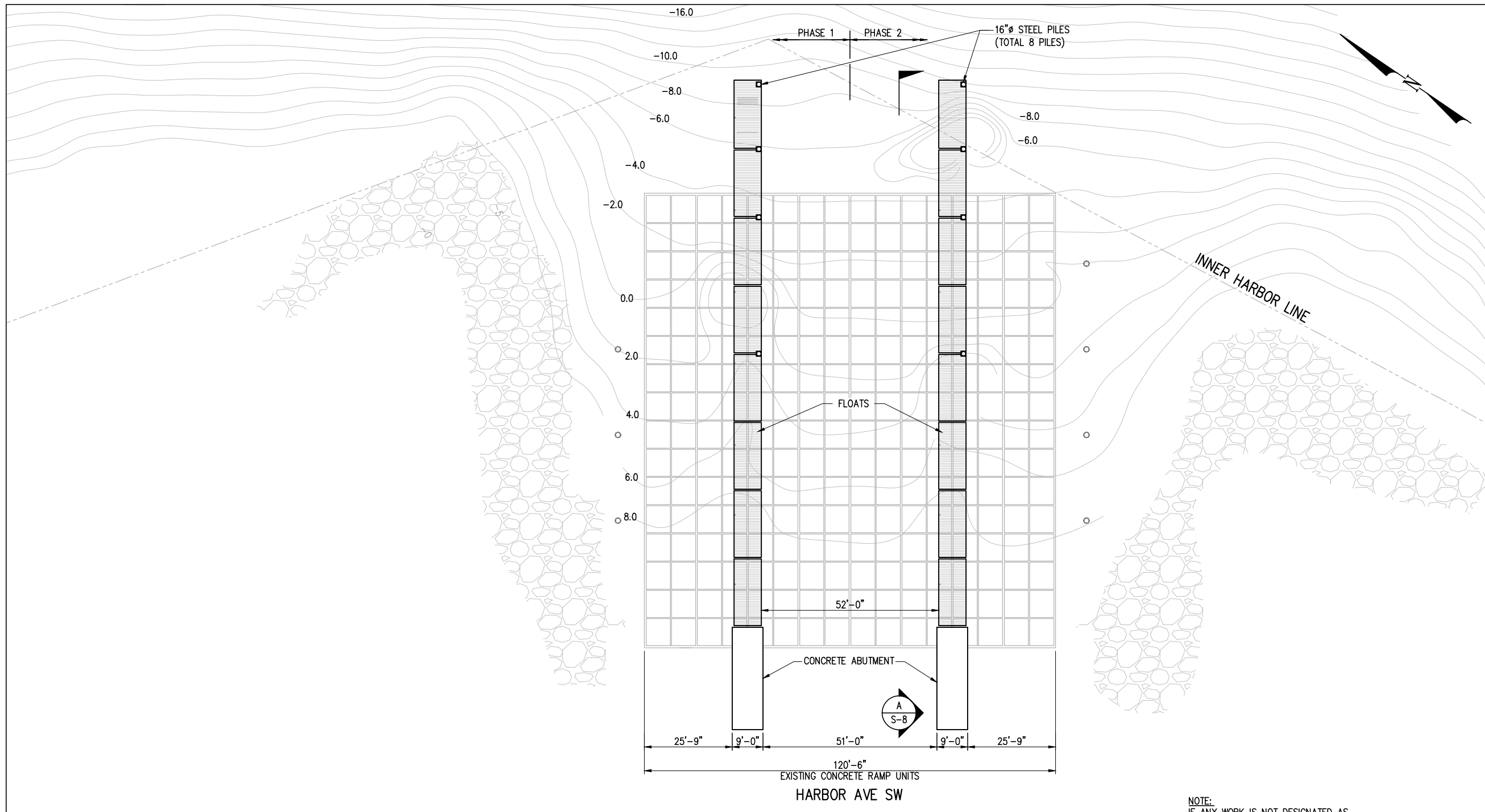


**NWS-2018-1191-WRD**

PERMIT SET



CAD USER: rickt PLOT DATE: Jan 24, 2020-12:43pm  
 PATH: V:\15180:1 (Seattle Parks)\Don Armeni\Design\0401-007.dwg



**PROPOSED SITE PLAN**  
 SCALE: 1/16"=1'-0"

**NOTE:**  
 IF ANY WORK IS NOT DESIGNATED AS  
 EXISTING IT SHALL BE NEW.

**>>>>CAUTION<<<<**  
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NO.	REVISION - AS BUILT	DATE

**REVIEWED:**  
 PARK ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
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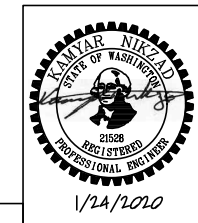


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**BOAT LAUNCH  
 DON ARMENI PARK**

**PROPOSED SITE PLAN**

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 9 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-7
CONTRACT NO. -	
SCALE AS SHOWN	



**NWS-2018-1191-WRD**

**PERMIT SET**

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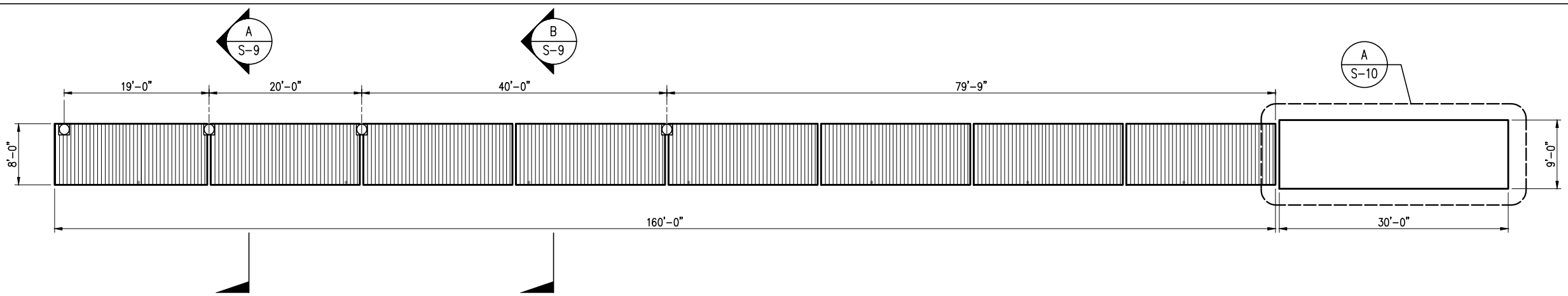
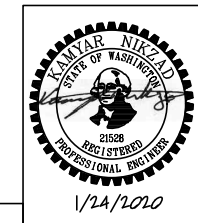


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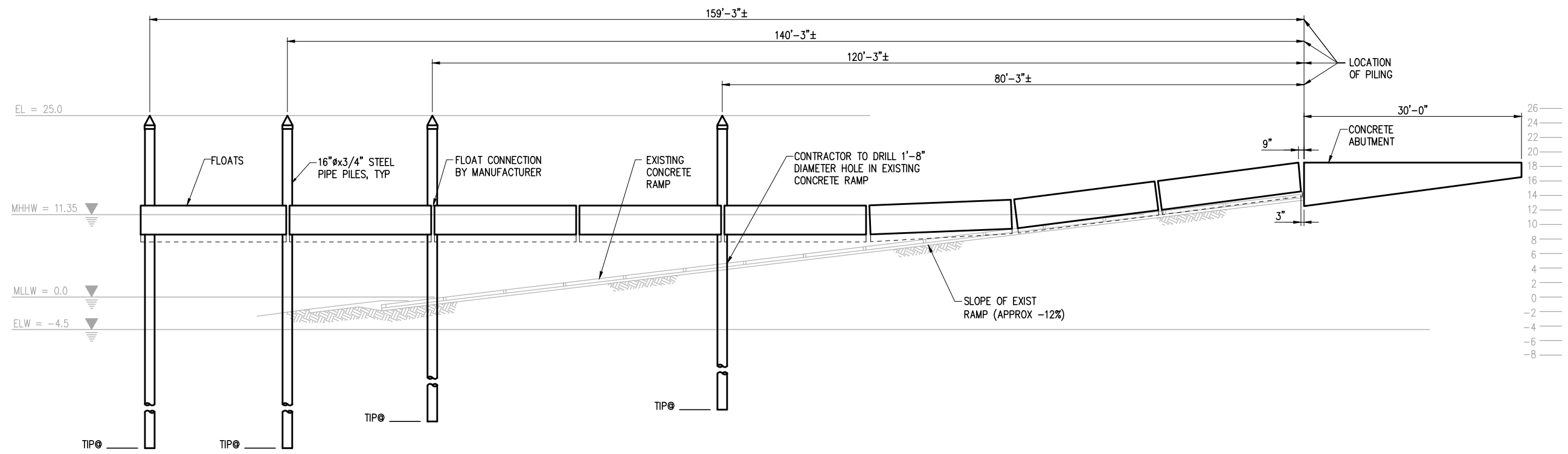
**BOAT LAUNCH  
DON ARMENI PARK**

**PLAN AND ELEVATION**

DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 10 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-8
CONTRACT NO. -	
SCALE AS SHOWN	



**PLAN - FLOATS** (1)  
SCALE: 1/8" = 1'-0"



**ELEVATION AT MHHW** (A)  
SCALE: 1/8" = 1'-0"

**NWS-2018-1191-WRD**

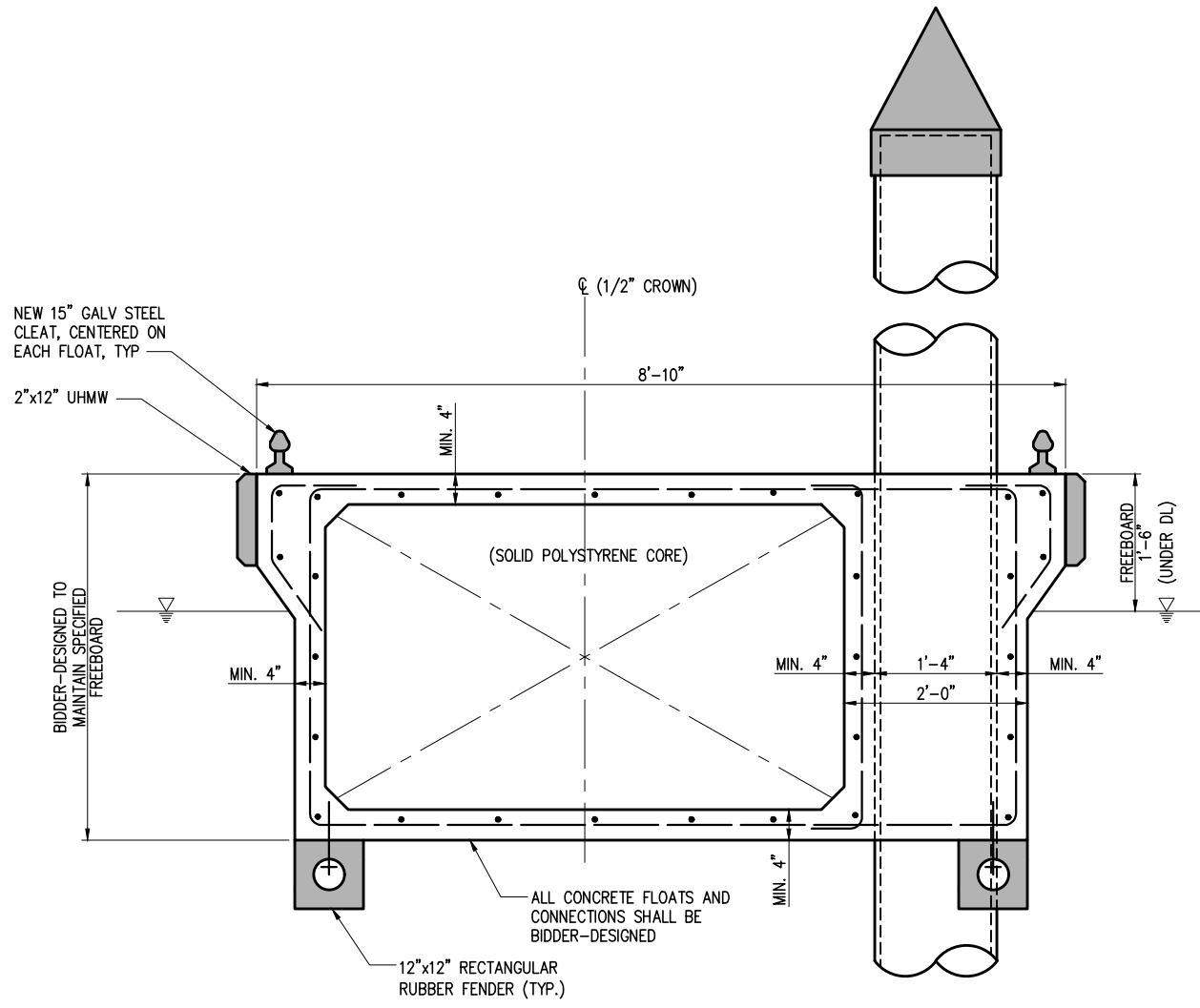
PERMIT SET

CAD USER: rickt PLOT DATE: Jan 24, 2020-12:44pm  
PATH: V:\15180:1 (Seattle Parks)\Don Armeni\Design\04BL-S08.dwg

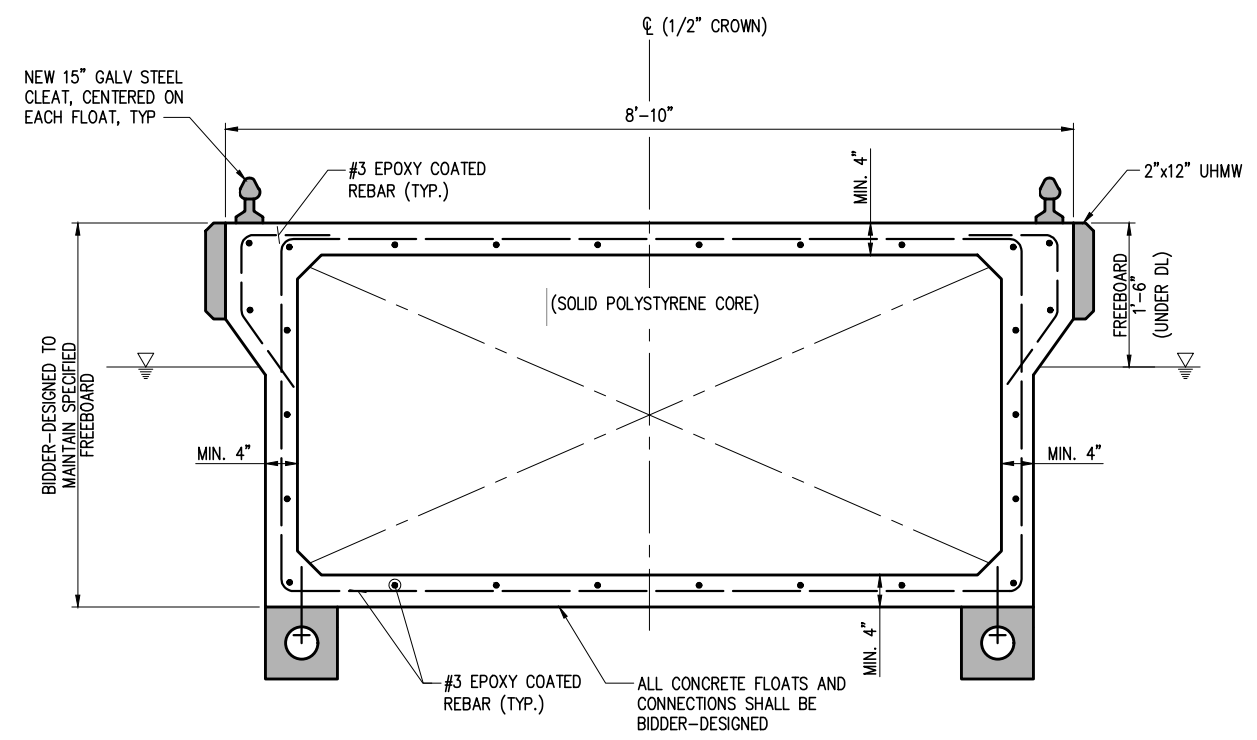
**>>>>CAUTION<<<<  
CALL BEFORE YOU DIG!**

NOT LESS THAN TWO OR MORE THAN TEN BUSINESS DAYS PRIOR TO COMMENCING EXCAVATION OR DEMOLITION, SECURE THE SERVICES OF A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND IMPROVEMENTS THAT MAY NOT BE INDICATED ON THE DRAWINGS. FOR IRRIGATION SYSTEMS, CALL SEATTLE PARKS PLUMBING SHOP (206 684 7070)

**>>800 424 5555<<**



**SECTION AT PILE**  
SCALE: 1" = 1'-0"  
**A**  
S-8



**SECTION AT FLOAT**  
SCALE: 1" = 1'-0"  
**B**  
S-8

**EXISTING UTILITY NOTES:**  
1. ALL LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND HAVE BEEN ESTABLISHED FROM AVAILABLE RECORDS AND LIMITED FIELD INVESTIGATIONS. UTILITIES NEED TO BE FIELD VERIFIED BY THE CONTRACTOR BEFORE DIGGING AND DEMOLITION.  
2. ACTIVE ELECTRICAL, DOMESTIC WATER, STORM SEWER, AND SANITARY SEWER UNDERGROUND UTILITY LINES ARE LOCATED IN THE PROJECT AREA AND NEED TO BE PROTECTED.  
3. NOT ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN FIELD LOCATED.  
4. PRIOR TO ANY DEMOLITION AND EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY EROSION AND SEDIMENTATION MEASURES AND TEMPORARY CHAINLINK FENCING IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND PERMIT REQUIREMENTS.

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
PARK ENGINEER

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

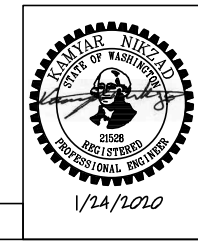


**kpff** 1601 5th Avenue, Suite 1600  
Seattle, WA 98101  
206.622.5822  
www.kpff.com

**BOAT LAUNCH  
DON ARMENI PARK**

**FLOAT SECTIONS**

DESIGNED <u>K. NIKZAD</u>	DATE <u>JAN 24, 2020</u>
DRAWN <u>M. GREEN</u>	SHEET <u>11</u> OF <u>12</u>
CHECKED <u>K. NIKZAD</u>	
ORDINANCE NO. <u>-</u>	<b>S-9</b>
CONTRACT NO. <u>-</u>	
SCALE <u>AS SHOWN</u>	



**NWS-2018-1191-WRD**

PERMIT SET

CAD USER: rickt PLOT DATE: Jan 24, 2020-12:44pm  
PATH: V:\15180:1 (Seattle Parks)\Don Armeni\Design\QDABL-S09.dwg

**>>>>CAUTION<<<<**  
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**>>800 424 5555<<**

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3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
 PARK ENGINEER \_\_\_\_\_

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

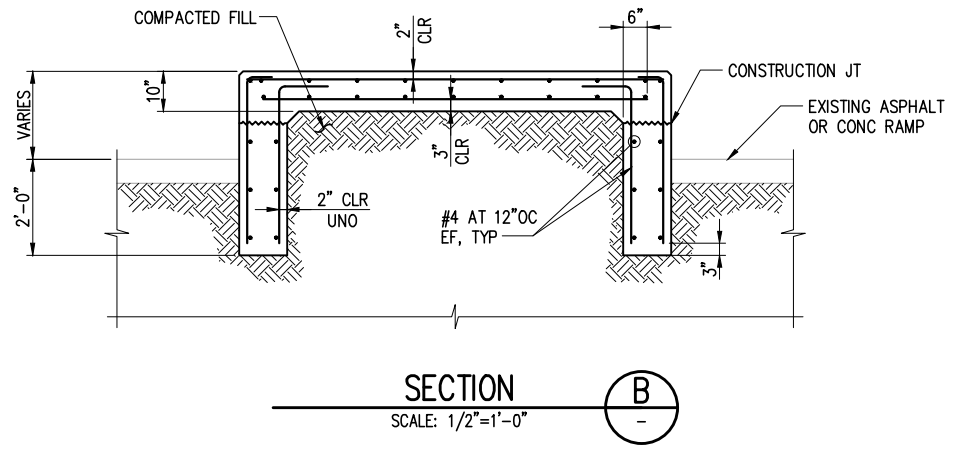
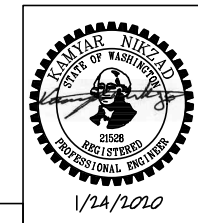


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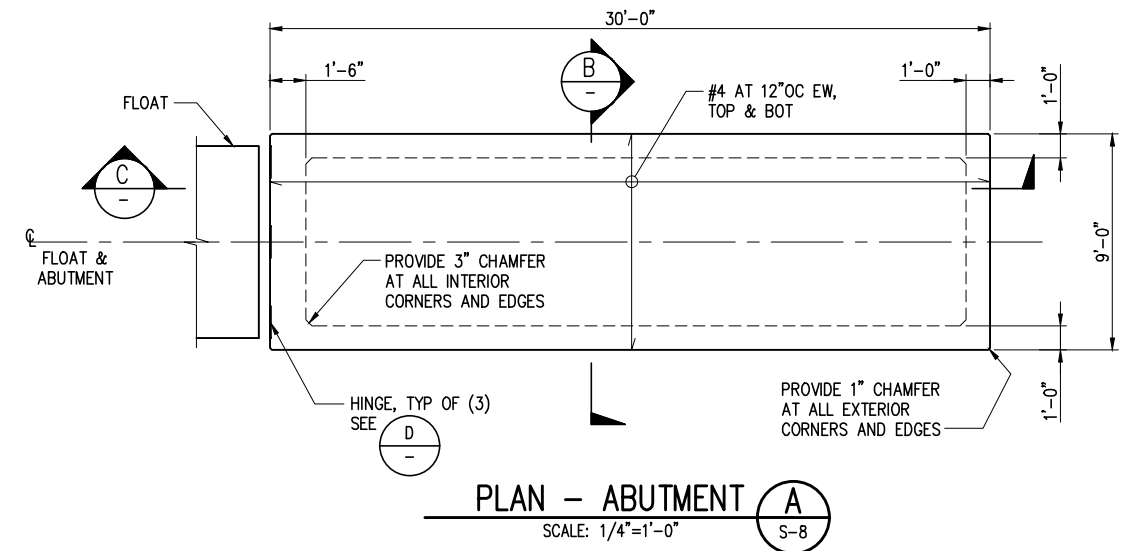
**BOAT LAUNCH  
 DON ARMENI PARK**

**CONCRETE ABUTMENT**

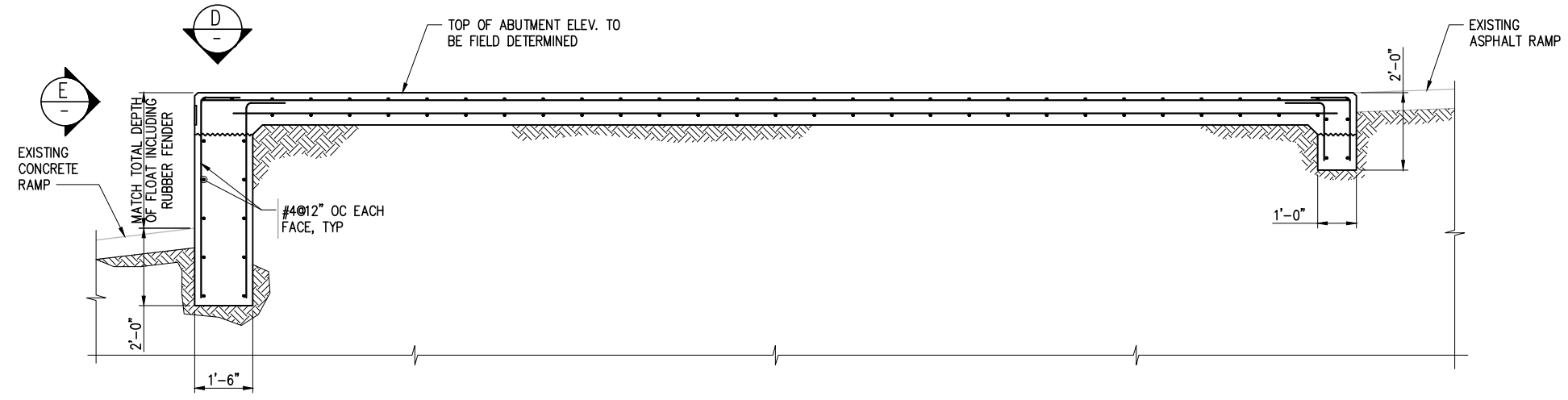
DESIGNED K. NIKZAD	DATE JAN 24, 2020
DRAWN M. GREEN	SHEET 12 OF 12
CHECKED K. NIKZAD	
ORDINANCE NO. -	S-10
CONTRACT NO. -	
SCALE AS SHOWN	



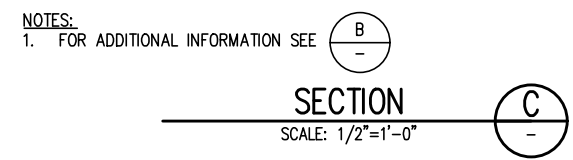
**SECTION B**  
 SCALE: 1/2"=1'-0"



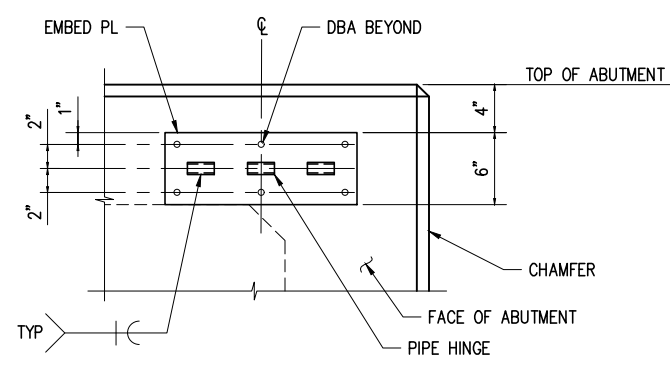
**PLAN - ABUTMENT A**  
 SCALE: 1/4"=1'-0"



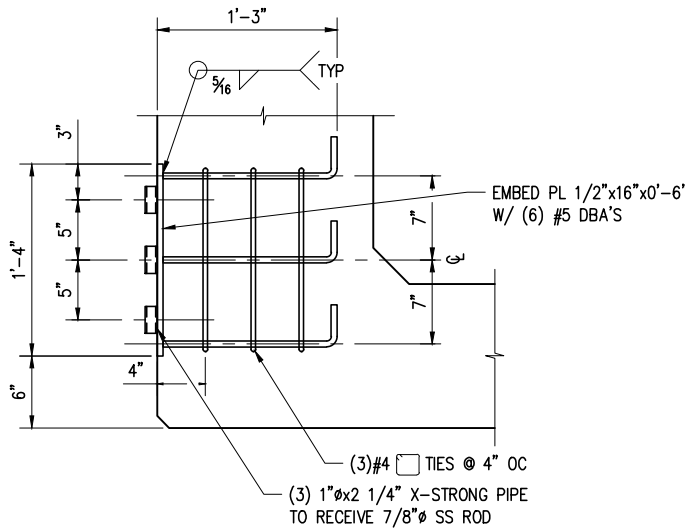
**SECTION D**



**SECTION C**  
 SCALE: 1/2"=1'-0"



**PARTIAL ELEVATION E**  
 SCALE: 1 1/2"=1'-0"



**PARTIAL PLAN - DETAIL D**  
 SCALE: 1 1/2"=1'-0"

**NOTES:**  
 1. CORNER CONDITION SHOWN. CONDITION AT CENTERLINE OF ABUTMENT SIMILAR.  
 2. WALL REINFORCEMENT NOT SHOWN FOR CLARITY

**NOTES:**  
 1. CORNER CONDITION SHOWN. CONDITION AT CENTERLINE OF ABUTMENT SIMILAR.  
 2. WALL REINFORCEMENT NOT SHOWN FOR CLARITY  
 3. FOR ADDITIONAL INFORMATION SEE D

**NWS-2018-1191-WRD**

PERMIT SET

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 PATH: V:\15180:1 (Seattle Parks)\Don Armeni\Design\DABL-S10.dwg