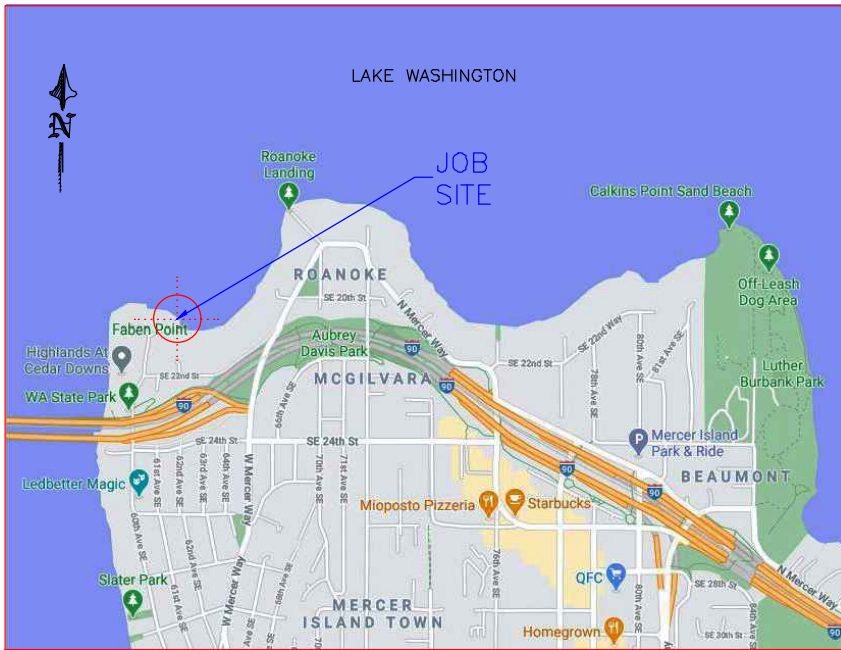
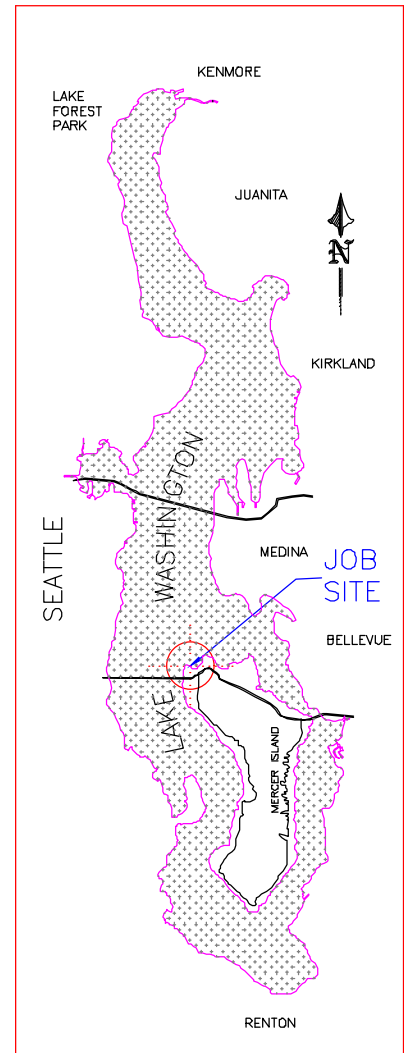


VICINITY MAP/NO SCALE



AREA MAP/NO SCALE



LEGAL DESCRIPTION

SECTION: SE-02-24-04 LAT: 47.592649 (47° 35' 33.5364" N)
 TAXLOT #: 243970-0110 LONG: -122.251115 (122° 15' 4.014" W)

FABENS POINT WATERFRONT TRS E 1/2 OF 18 ALL 19 TGW POR VAC
 ELIZABETH WAY LY BET C/L OF TR 18 & E LN OF TR 19 PROD SLY & W
 1/2 VAC MERCER ST PROD NLY FR S LN OF TR 20 TO OUTER BDRY OF SH
 LDS & TGW SH LDS ADJ TGW POR OF TR 20 ELY OF LN BAAP ON S LN SD
 TR 20 N 89-55-45 W 92.06 FT FR SE COR THOF TH N 00-01-54 E PLT
 E LN SD TR 20 A DIST OF 268.52 FT TH S 89-55-45 E 2.06 FT TH N
 00-01-54 E 44.50 FT TO N LN SD TR 20 LESS S 100 FT SD TR 20 TGW
 POR OF SD S 100 OF TR 20 & LESS POR SD VAC 62ND SE AS BOTH ARE
 SHOWN ON PLAT OF MI LLA 83-04-12 REC NO 8306299004 ALL OF SD
 ABOVE DESC BEING POR OF MI LLA 83-04-12 REC NO 8306299004

PRELIMINARY

PROJECT DESIGNED BY:

Waterfront Construction Inc.

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ADJACENT OWNERS:

- ① EJ FERULLO
1910 FABEN DR
MERCER ISLAND, WA 98040
- ② ERIC DAHLBERG
6208 SE 22ND ST
MERCER ISLAND, WA 98040

APPLICATION#:

PROPOSED: PIER REBUILD

PURPOSE: REPLACE FAILED PIER

DATUM: C.O.E. MLLW=0.0'

DWG#: 21-39001-A1-1

APPLICANT: MARK HOUTCHENS

SITE ADD. 6024 SE 22ND ST
MERCER ISLAND, WA 98040

MAIL ADD. 6024 SE 22ND ST
MERCER ISLAND, WA 98040

PAGE: 1 OF: 11 DATE: 11/3/2021

LAKE WASHINGTON

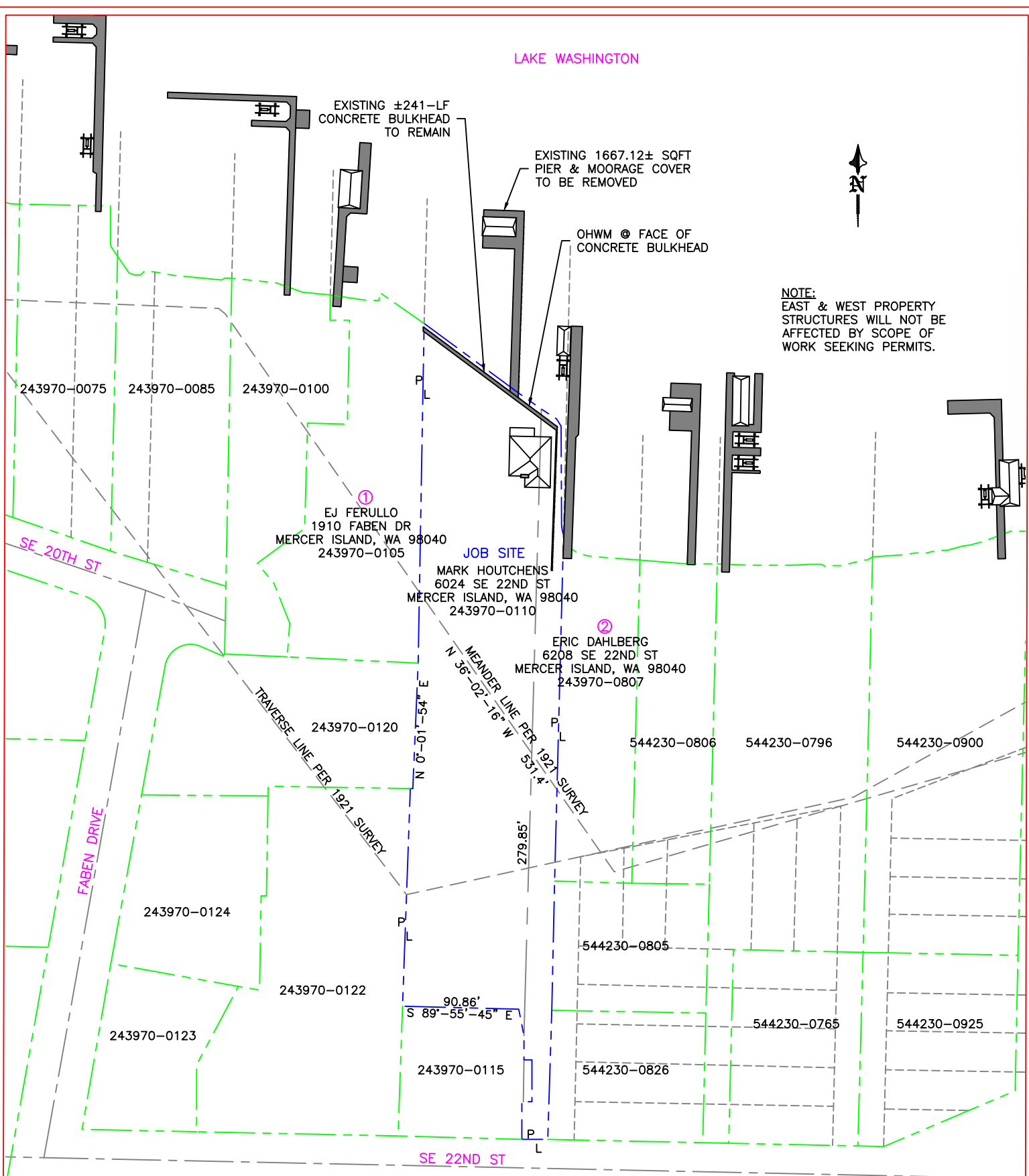
EXISTING ±241-LF
CONCRETE BULKHEAD
TO REMAIN

EXISTING 1667.12± SQFT
PIER & MOORAGE COVER
TO BE REMOVED

OHWL @ FACE OF
CONCRETE BULKHEAD



NOTE:
EAST & WEST PROPERTY
STRUCTURES WILL NOT BE
AFFECTED BY SCOPE OF
WORK SEEKING PERMITS.



①
EJ FERULLO
1910 FABEN DR
MERCER ISLAND, WA 98040
243970-0105

JOB SITE
MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0110

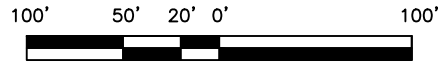
②
ERIC DAHLBERG
6208 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0807

MEANDER LINE PER 1921 SURVEY
N 56°-02'-16" W
S 51°-4'-55" E

TRAVERSE LINE PER 1921 SURVEY
N 0°-01'-54" E
279.85'

90.86'
S 89°-55'-45" E

EXISTING SITE PLAN



SCALE: 1"=100'

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REFERENCE #:	
APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040	
PROPOSED: PIER REBUILD	
SHEET: 2	OF: 11
NEAR/AT: MERCER ISLAND	
DATE: 11/3/2021	DWG#: 21-39001-A1-2

LAKE WASHINGTON

EXISTING ±241-LF
CONCRETE BULKHEAD
TO REMAIN

PROPOSED NEW 1172.1 SF DOCK

OHWL @ FACE OF
CONCRETE BULKHEAD

NOTE:
EAST & WEST PROPERTY
STRUCTURES WILL NOT BE
AFFECTED BY SCOPE OF
WORK SEEKING PERMITS.



243970-0075 243970-0085 243970-0100

①
EJ FERULLO
1910 FABEN DR
MERCER ISLAND, WA 98040
243970-0105

SE 20TH ST

JOB SITE
MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0110

②
ERIC DAHLBERG
6208 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0807

TRVERSE LINE PER 1921 SURVEY

MEANDER LINE PER 1921 SURVEY
N 36°-02'-16" W 531.4'

N 0°-01'-54" E 279.85'

243970-0120

544230-0806

544230-0796

544230-0900

FABEN DRIVE

243970-0124

243970-0122

544230-0805

544230-0765

544230-0925

243970-0123

90.86'

S 89°-55'-45" E

243970-0115

544230-0826

SE 22ND ST

PROPOSED SITE PLAN

100' 50' 20' 0' 100'



SCALE: 1"=100'

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REFERENCE #:

APPLICANT: MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040

PROPOSED: PIER REBUILD

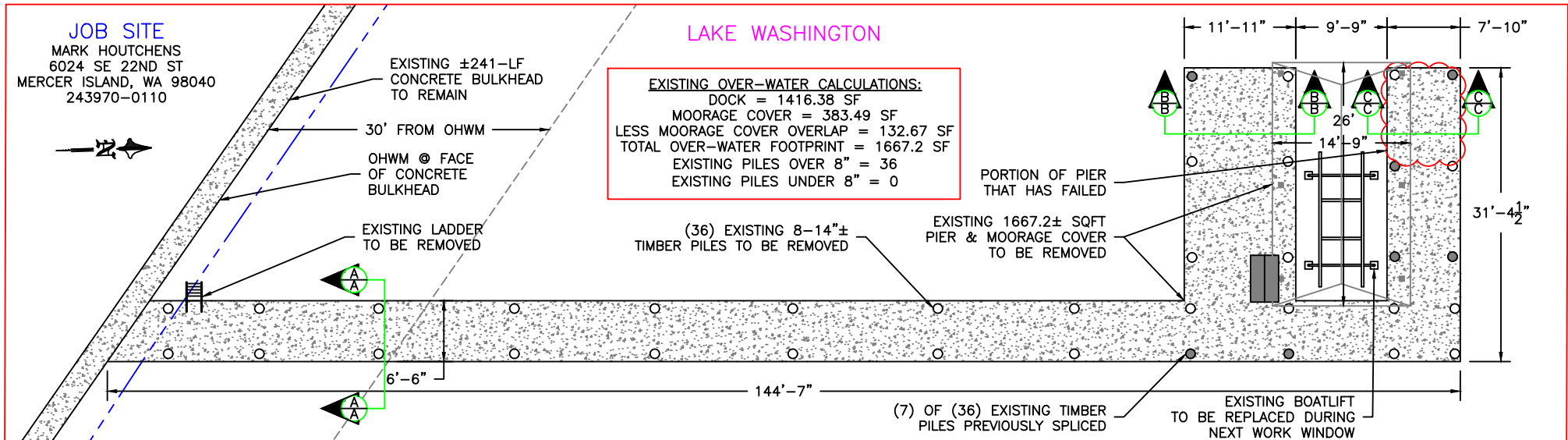
SHEET: 3 OF: 11 NEAR/AT: MERCER ISLAND

DATE: 11/3/2021 DWG#: 21-39001-A1-3

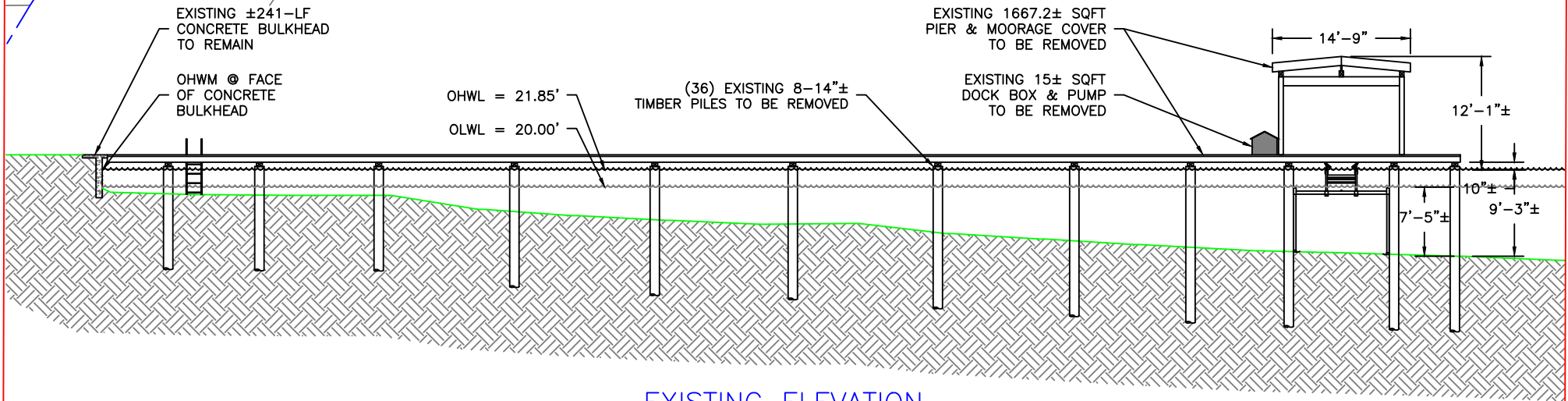
JOB SITE
 MARK HOUTCHENS
 6024 SE 22ND ST
 MERCER ISLAND, WA 98040
 243970-0110

LAKE WASHINGTON

EXISTING OVER-WATER CALCULATIONS:
 DOCK = 1416.38 SF
 MOORAGE COVER = 383.49 SF
 LESS MOORAGE COVER OVERLAP = 132.67 SF
 TOTAL OVER-WATER FOOTPRINT = 1667.2 SF
 EXISTING PILES OVER 8" = 36
 EXISTING PILES UNDER 8" = 0



EXISTING PLAN DETAIL VIEW
 SCALE: 1/16"=1'



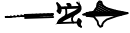
EXISTING ELEVATION
 SCALE: 1/16"=1'

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REFERENCE #:		
APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040		
PROPOSED: PIER REBUILD		
SHEET: 4	OF: 11	NEAR/AT: MERCER ISLAND
DATE: 11/3/2021	DWG #: 21-39001-A1-4	

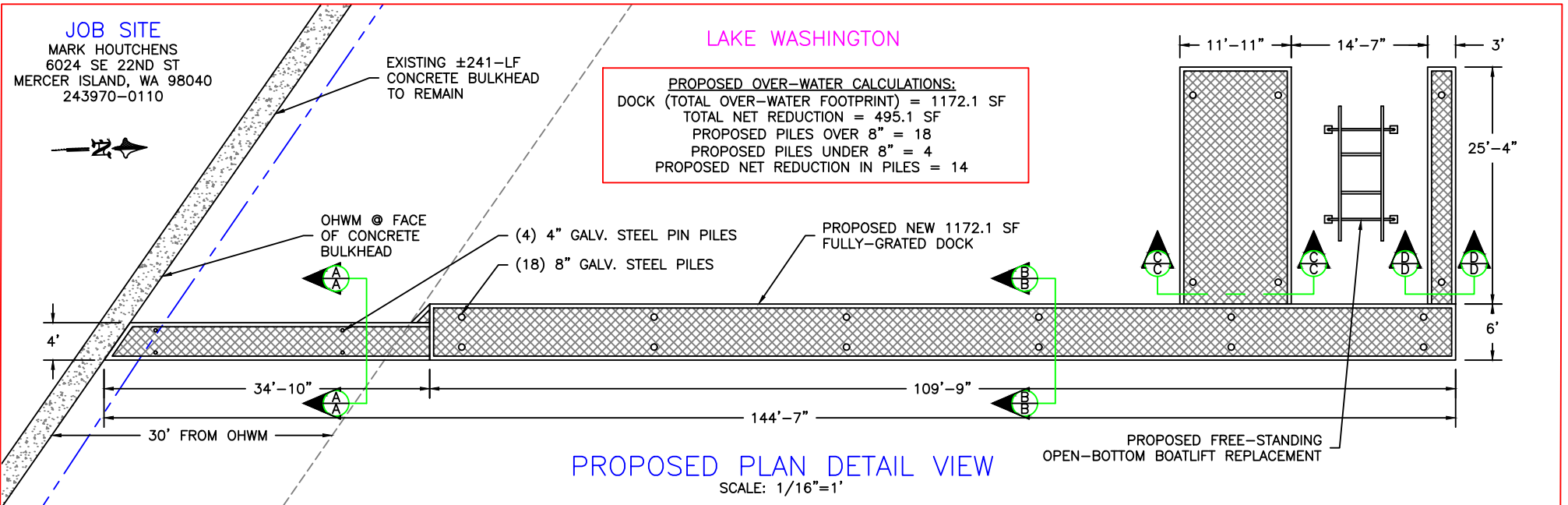
JOB SITE

MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0110

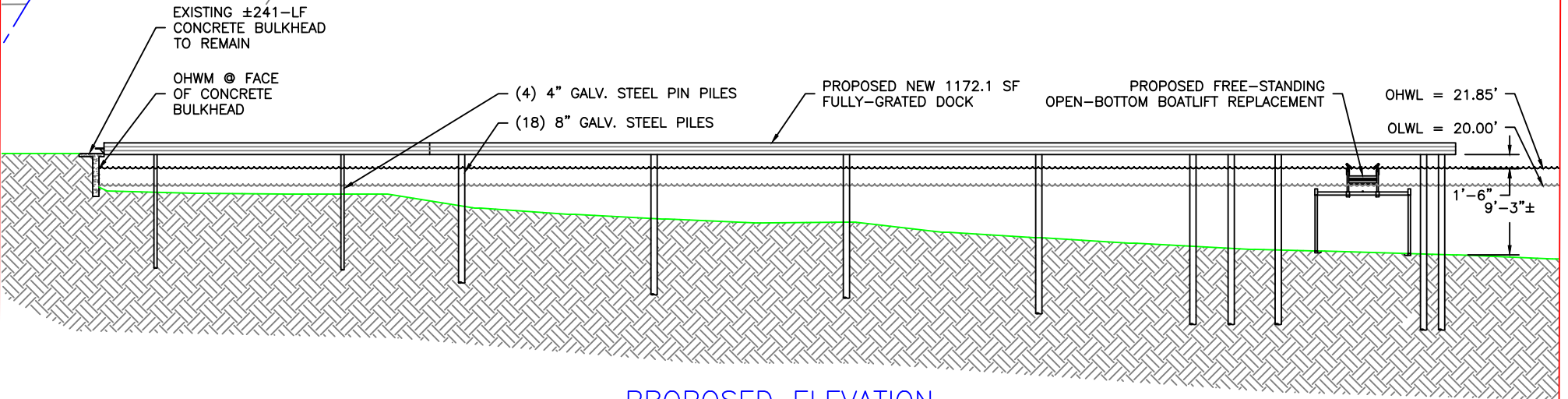


LAKE WASHINGTON

PROPOSED OVER-WATER CALCULATIONS:
DOCK (TOTAL OVER-WATER FOOTPRINT) = 1172.1 SF
TOTAL NET REDUCTION = 495.1 SF
PROPOSED PILES OVER 8" = 18
PROPOSED PILES UNDER 8" = 4
PROPOSED NET REDUCTION IN PILES = 14



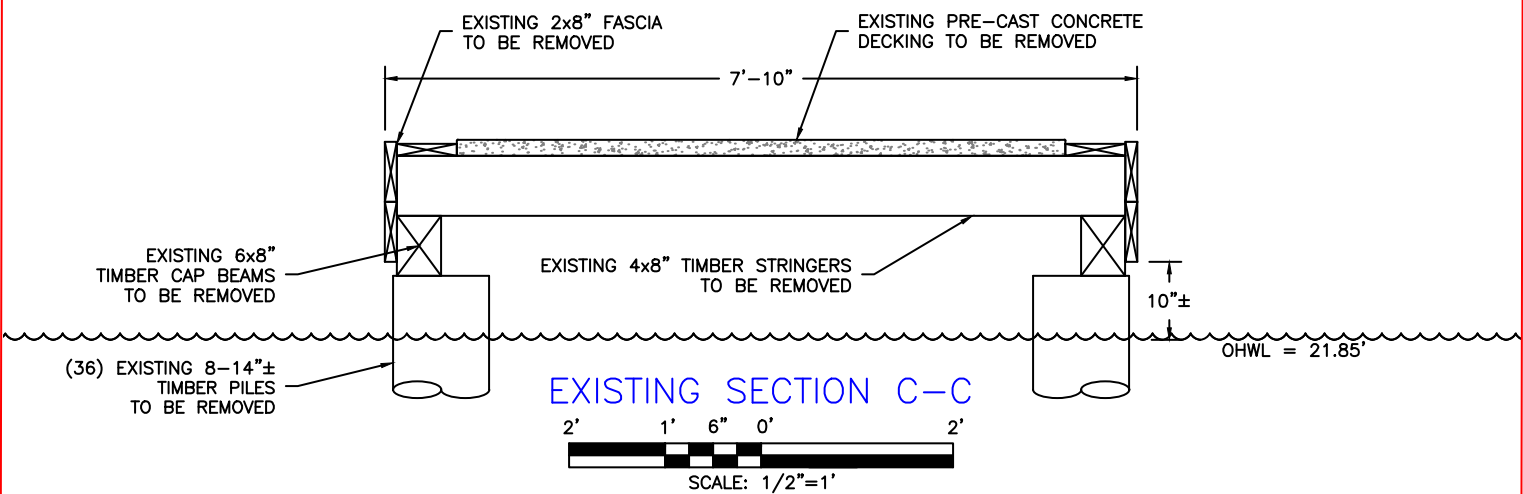
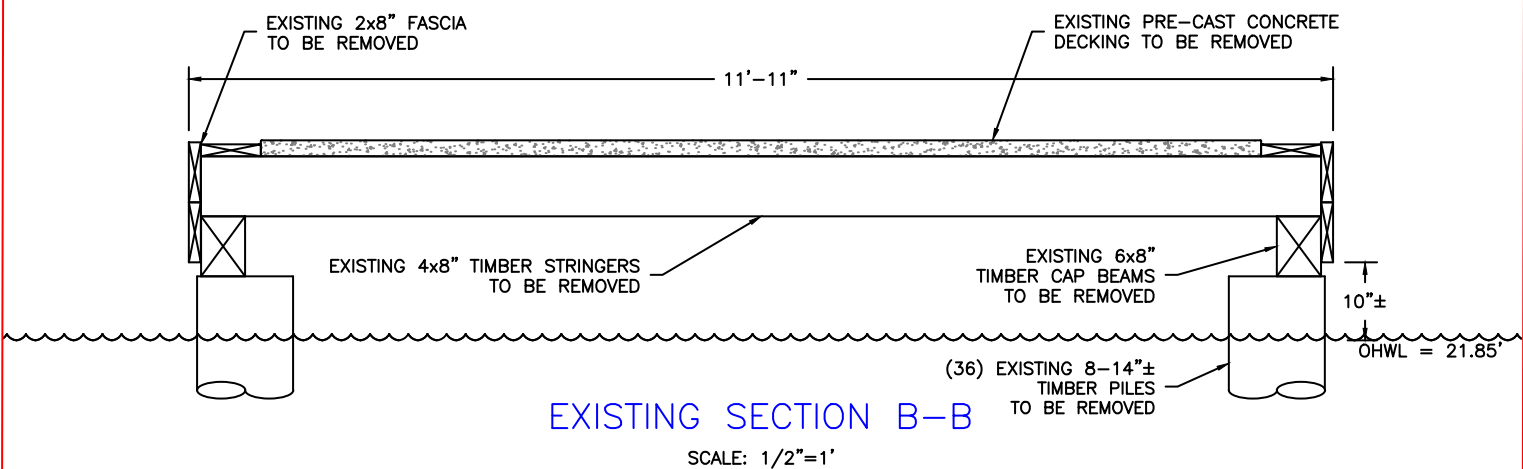
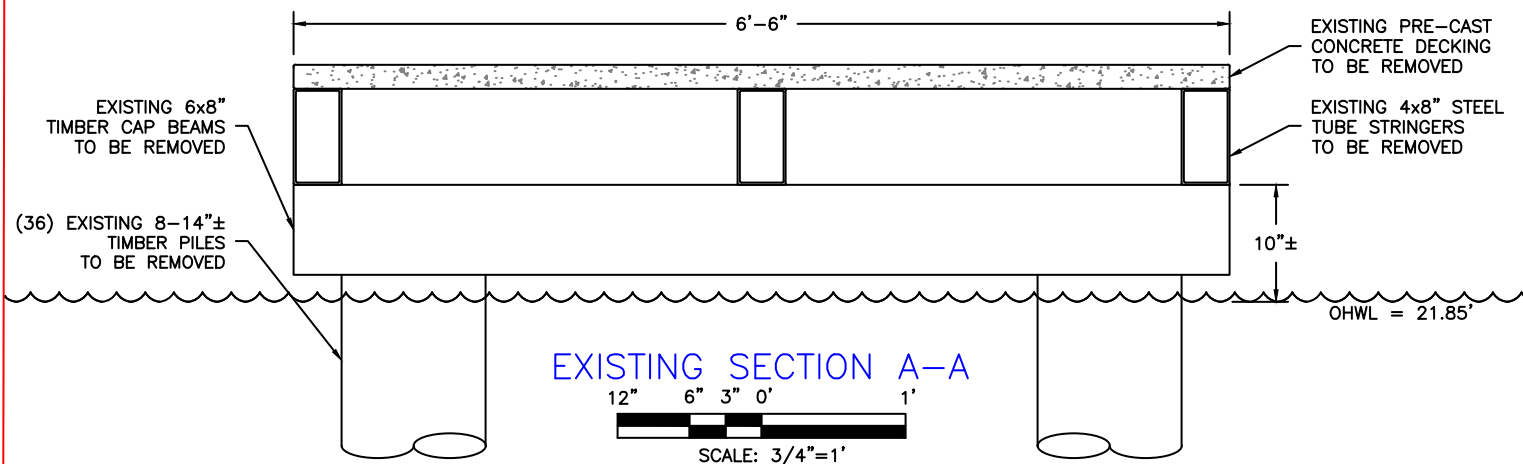
PROPOSED PLAN DETAIL VIEW
SCALE: 1/16"=1'



PROPOSED ELEVATION
SCALE: 1/16"=1'

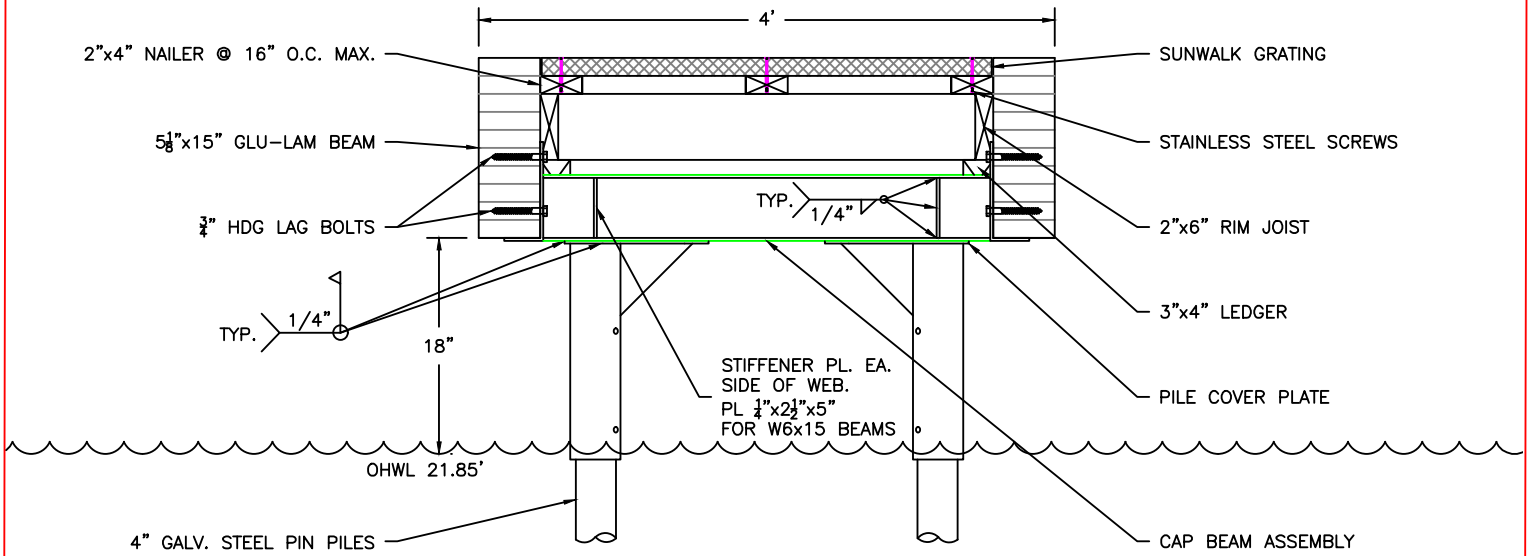
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REFERENCE #:	
APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040	
PROPOSED: PIER REBUILD	
SHEET: 5	OF: 11
DATE: 11/3/2021	NEAR/AT: MERCER ISLAND DWG#: 21-39001-A1-5



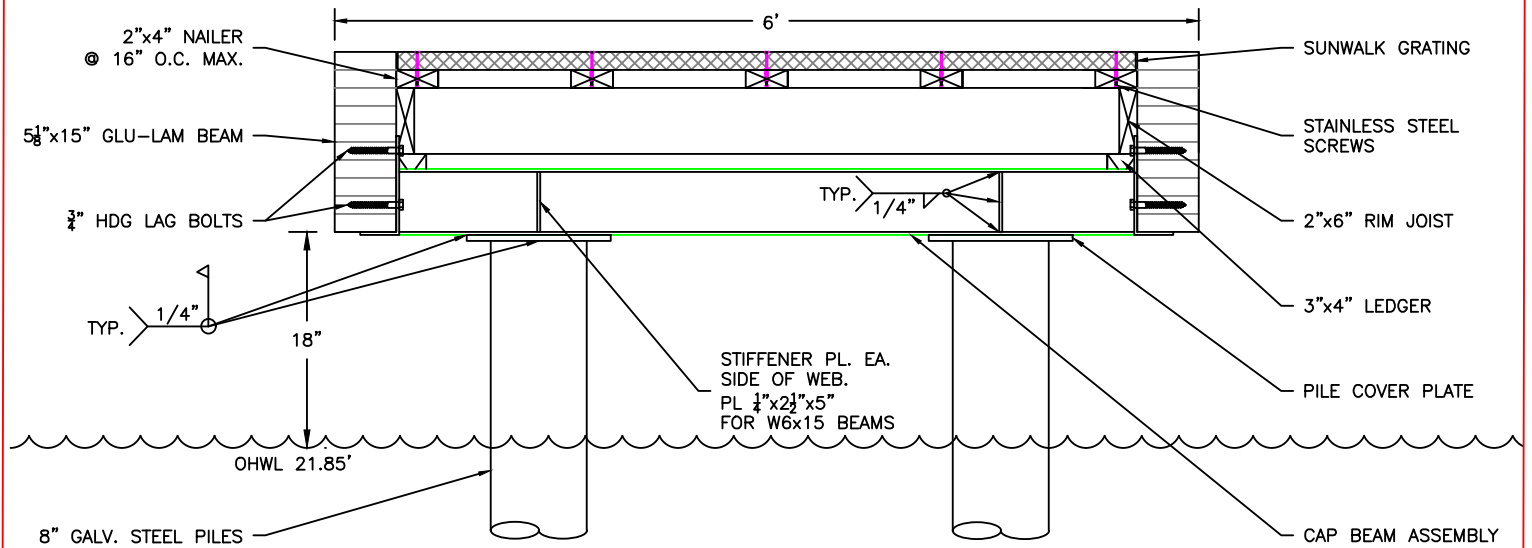
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REFERENCE #:		
APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040		
PROPOSED: PIER REBUILD		
SHEET: 6	OF: 11	NEAR/AT: MERCER ISLAND
DATE: 11/3/2021	DWG#: 21-39001-A1-6	

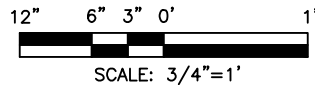


PROPOSED SECTION A-A

SCALE: 3/4"=1'



PROPOSED SECTION B-B



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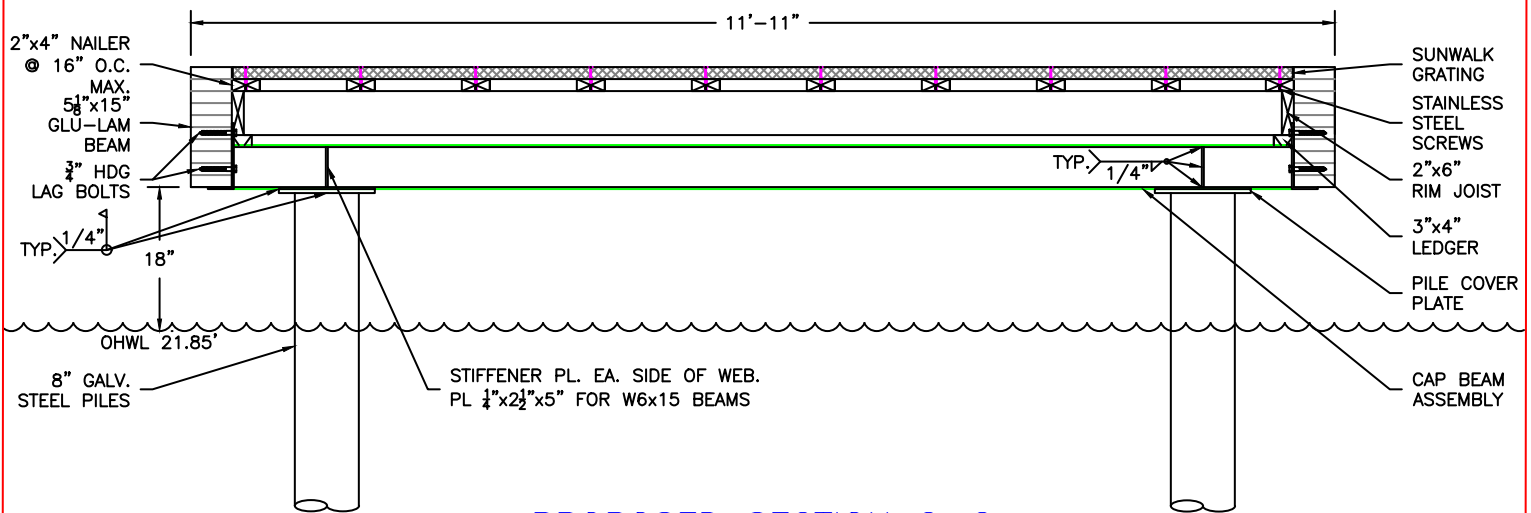
REFERENCE #:

APPLICANT: MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040

PROPOSED: PIER REBUILD

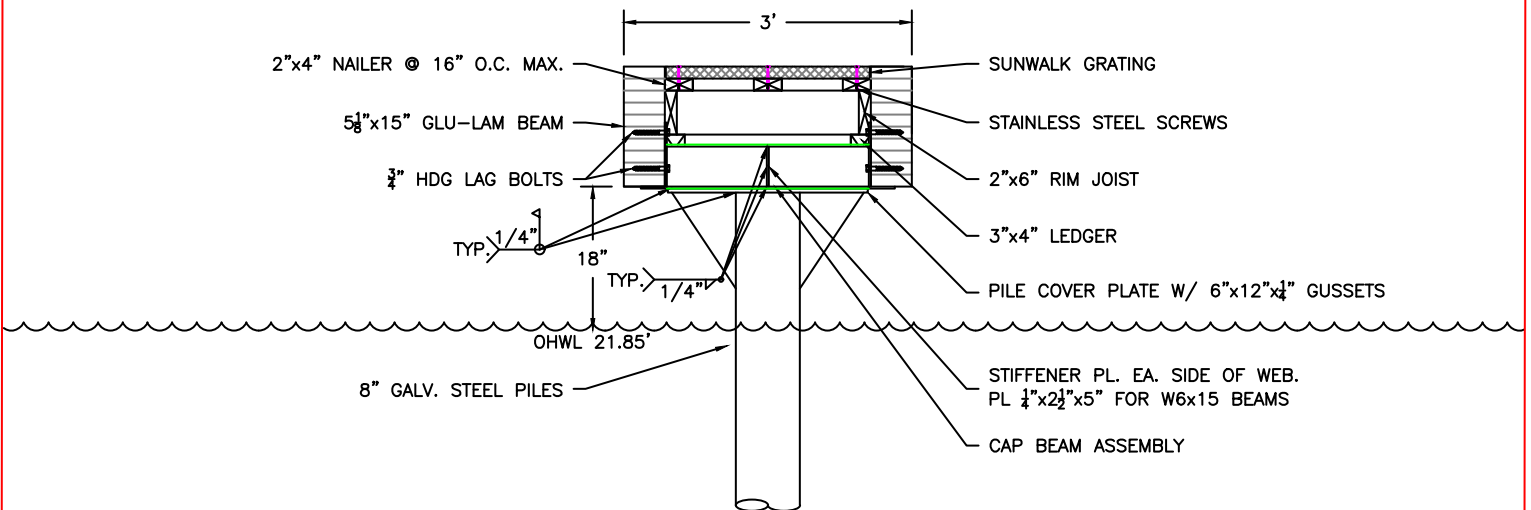
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DATE: 11/3/2021 DWG#: 21-39001-A1-7

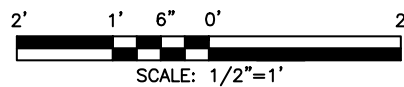


PROPOSED SECTION C-C

SCALE: 1/2"=1'



PROPOSED SECTION D-D



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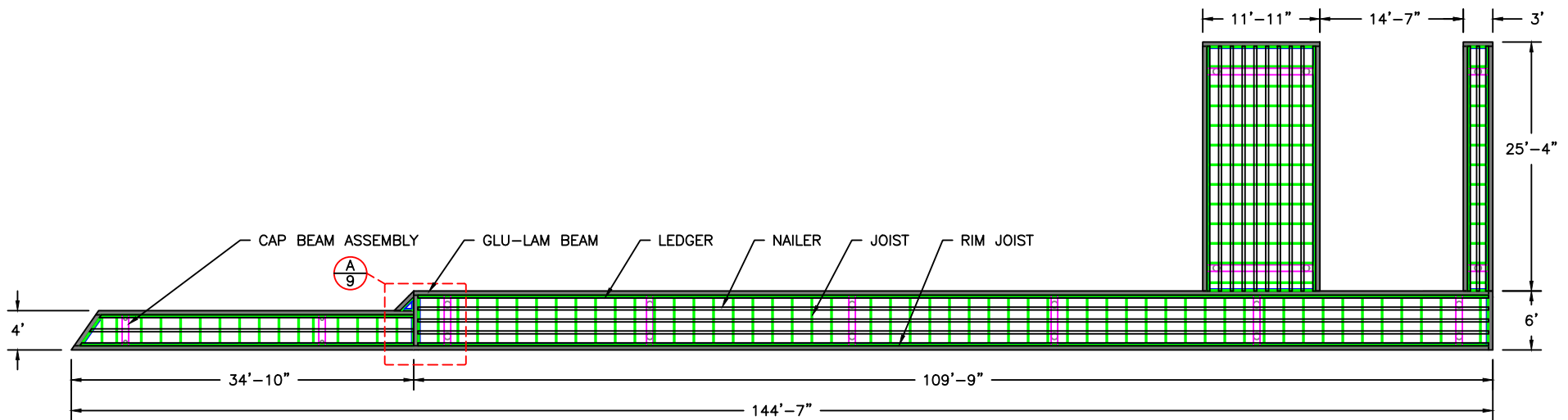
REFERENCE #:

APPLICANT: MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040

PROPOSED: PIER REBUILD

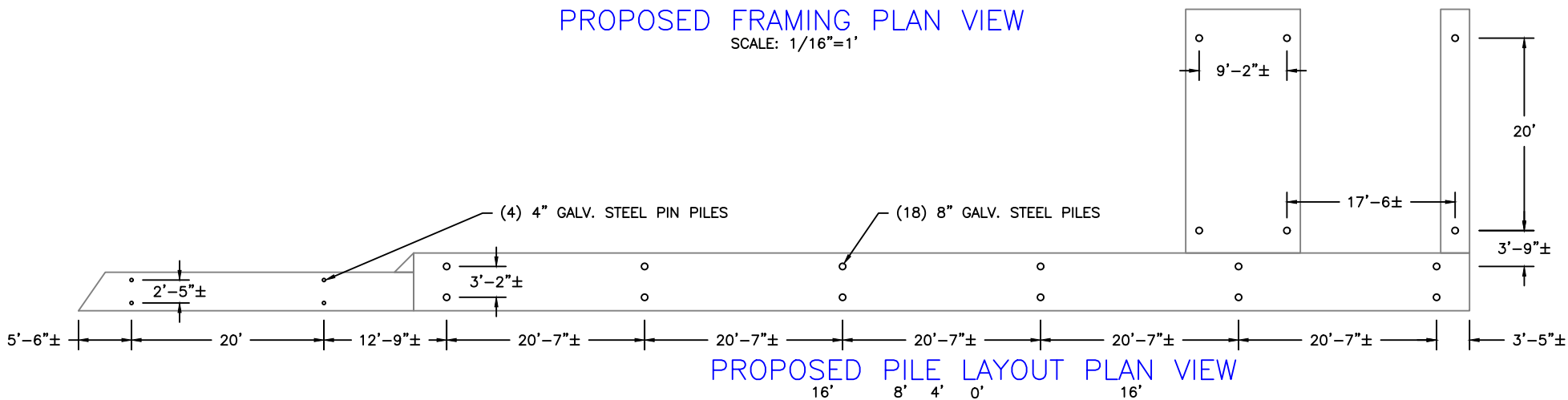
SHEET: 8 OF: 11 NEAR/AT: MERCER ISLAND

DATE: 11/3/2021 DWG#: 21-39001-A1-8



PROPOSED FRAMING PLAN VIEW

SCALE: 1/16"=1'



PROPOSED PILE LAYOUT PLAN VIEW

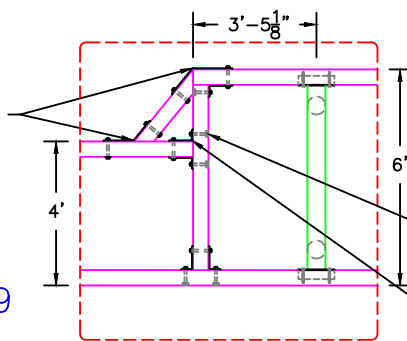
SCALE: 1/16"=1'

1/4" THICK x 8" DEEP STEEL PLATE (CONTRACTOR TO DETERMINE LENGTH OF PLATE), BENT AS SHOWN, ATTACH TO EACH BEAM WITH (2) 3/4" DIA. GALV. THRU-BOLTS W/ 2" DIA. GALV. WASHER. PROVIDE MIN. 5-1/2" BETWEEN BOLTS, PROVIDE MIN. 3" EDGE DISTANCE AT GLU-LAM BEAM, PROVIDE MIN. 1-1/2" EDGE DISTANCE AT STEEL PLATE.

TYPICAL GLU-LAM BEAM CONNECTION DETAIL A-9

4' 3' 2' 1' 0' 4'

SCALE: 3/16"=1'



(2) 3/4" DIA GALV. THRU BOLTS W/ 2" DIA WASHER, PROVIDE MIN. 3" EDGE DISTANCE AT GLU-LAM BEAM.

3/8"x4"x8"x8" LONG ANGLE BRACKET ON EITHER SIDE OF GLU-LAM BEAM

PROJECT DESIGNED BY:

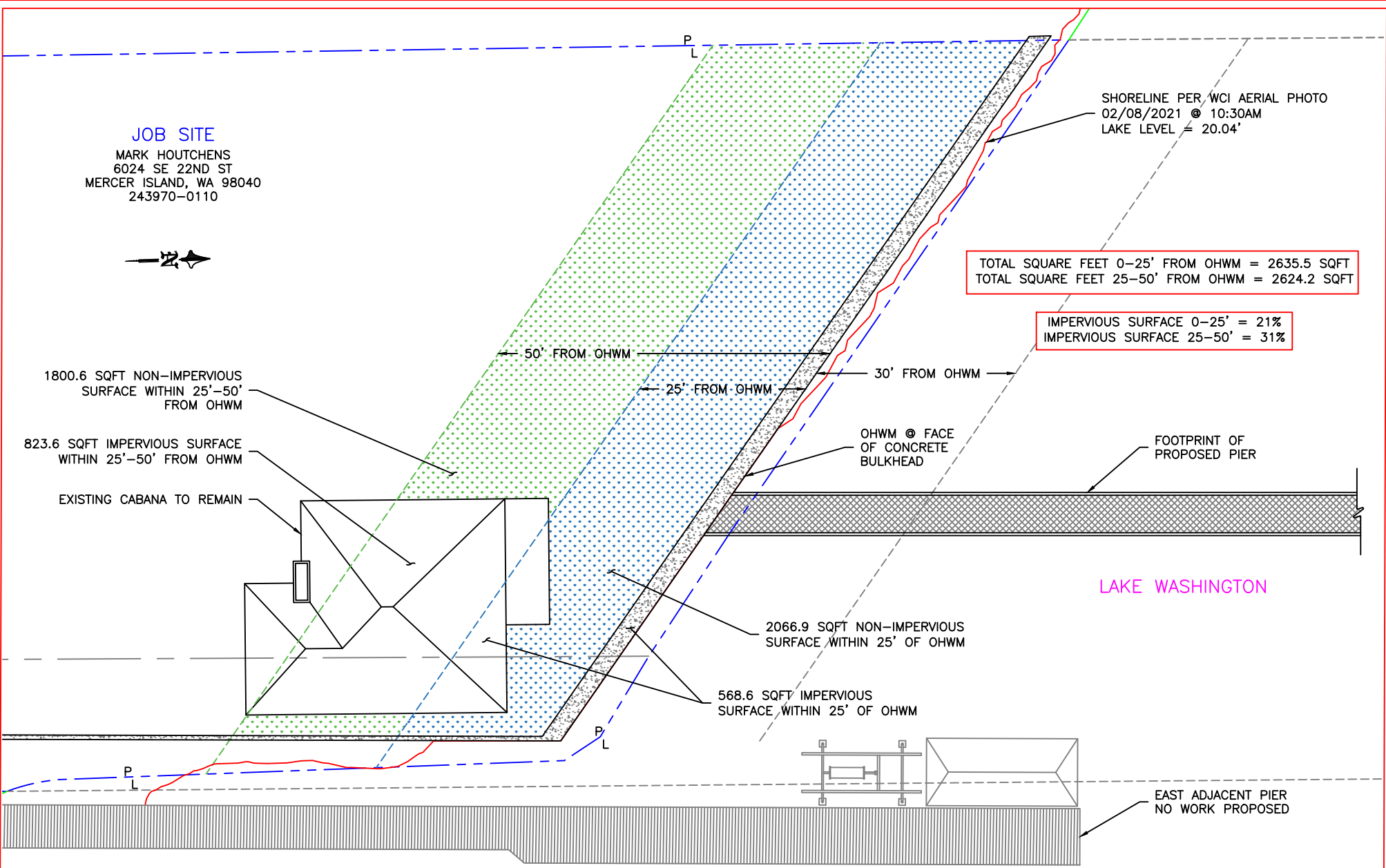
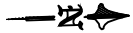
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REFERENCE #:		
APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040		
PROPOSED: PIER REBUILD		
SHEET: 9	OF: 11	NEAR/AT: MERCER ISLAND
DATE: 11/3/2021	DWG#: 21-39001-A1-9	

JOB SITE

MARK HOUTCHENS
6024 SE 22ND ST
MERCER ISLAND, WA 98040
243970-0110



TOTAL SQUARE FEET 0-25' FROM OHWM = 2635.5 SQFT
TOTAL SQUARE FEET 25-50' FROM OHWM = 2624.2 SQFT

IMPERVIOUS SURFACE 0-25' = 21%
IMPERVIOUS SURFACE 25-50' = 31%

1800.6 SQFT NON-IMPERVIOUS SURFACE WITHIN 25'-50' FROM OHWM

823.6 SQFT IMPERVIOUS SURFACE WITHIN 25'-50' FROM OHWM

EXISTING CABANA TO REMAIN

2066.9 SQFT NON-IMPERVIOUS SURFACE WITHIN 25' OF OHWM

568.6 SQFT IMPERVIOUS SURFACE WITHIN 25' OF OHWM

LAKE WASHINGTON

EAST ADJACENT PIER
NO WORK PROPOSED

PROJECT DESIGNED BY:
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PROPOSED IMPERVIOUS SURFACE CALCULATION - PLAN VIEW

20' 15' 10' 5' 0' 20'

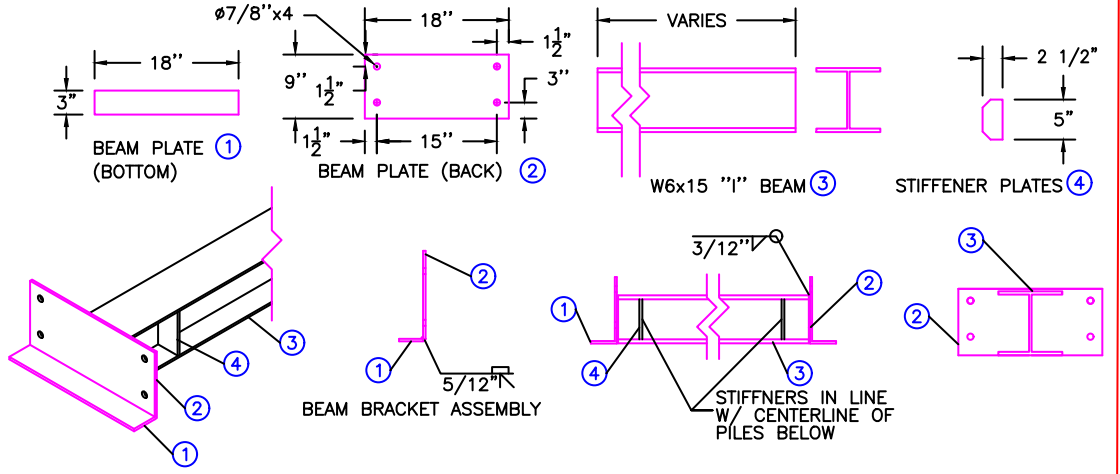


SCALE: 1"=20'

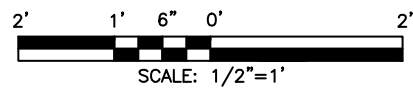
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APPLICANT: MARK HOUTCHENS 6024 SE 22ND ST MERCER ISLAND, WA 98040		
PROPOSED: PIER REBUILD		
SHEET: 10	OF: 11	NEAR/AT: MERCER ISLAND
DATE: 11/3/2021	DWG#: 21-39001-A1-10	

MATERIAL LIST

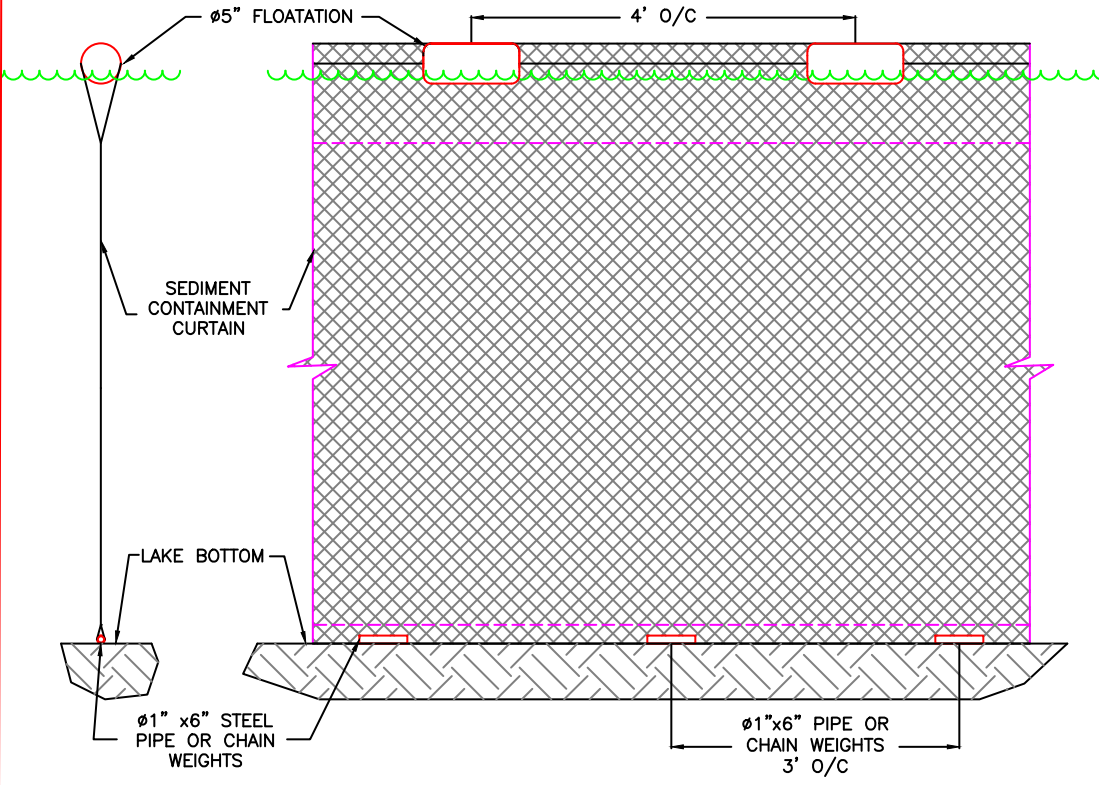
PART	SPECS	TREATMENT	QTY.
PILING	X-STRONG 4" & 8"	GALVANIZED	(24)
CAPS	W6x15 "I" BEAM	GALVANIZED	±71-LF
GLU-LAMS	5 1/8"x15" DF	ACZA	±424-LF
JOIST	2"x6" DF #2 OR BTR	ACZA	±473-LF
RIM JOIST	2"x6" DF #2 OR BTR	ACZA	±433-LF
NAILERS	2"x4" DF #2 OR BTR	ACZA	±1067-LF
LEDGERS	3"x4" DF #2 OR BTR	ACZA	±347-LF
GRATING	MOLDED PLASTIC	NONE	±1067-SF
HARDWARE	STEEL	STAINLESS OR HDG.	



STEEL CAP ASSEMBLY



PART #	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
4	STIFFENER PLATES	5"x2-1/2"x1/4" STEEL PLATE
3	W6x15 "I" BEAM	6" 15 LB PER FOOT I-BEAM
2	BACK BEAM PLATE	18"x9"x5/12" STEEL PLATE
1	BOTTOM BEAM PLATE	18"x3"x5/12" STEEL PLATE



TEMP. FLOATING SILT CONTAINMENT FENCE

SCALE: 1/2"=1'

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SHEET: 11 OF: 11 NEAR/AT: MERCER ISLAND
DATE: 11/3/2021 DWG#: 21-39001-A1-11