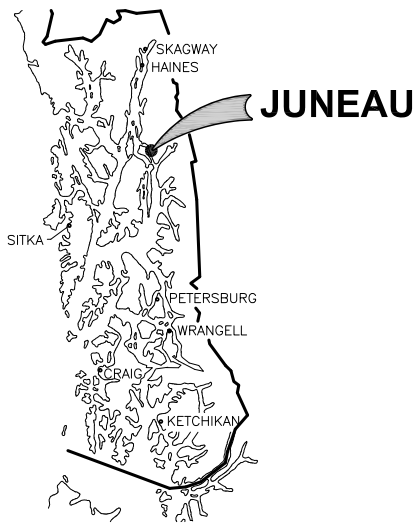


CITY & BOROUGH OF JUNEAU, ALASKA

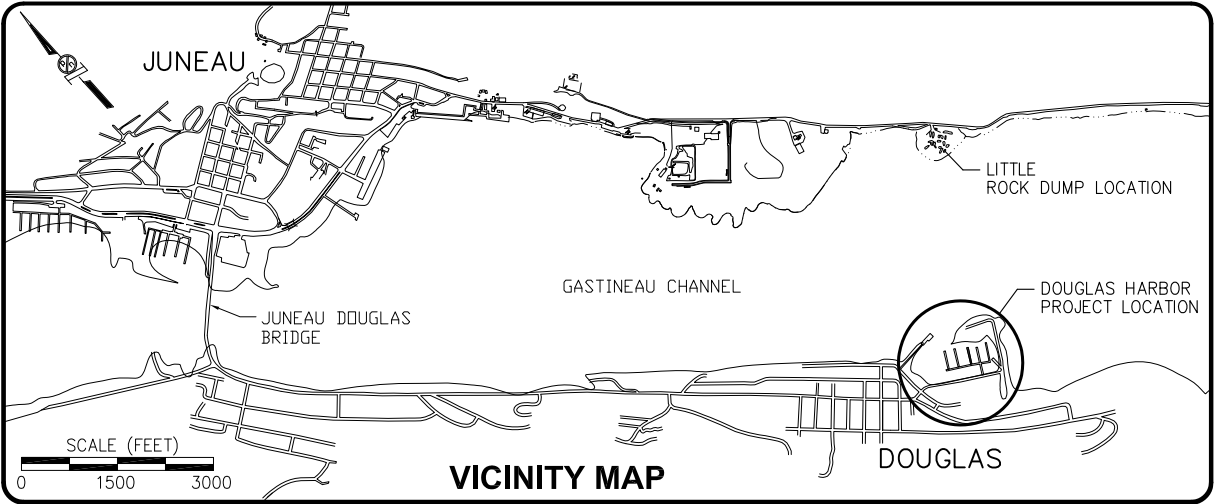
OLD DOUGLAS HARBOR REBUILD

PHASE 1

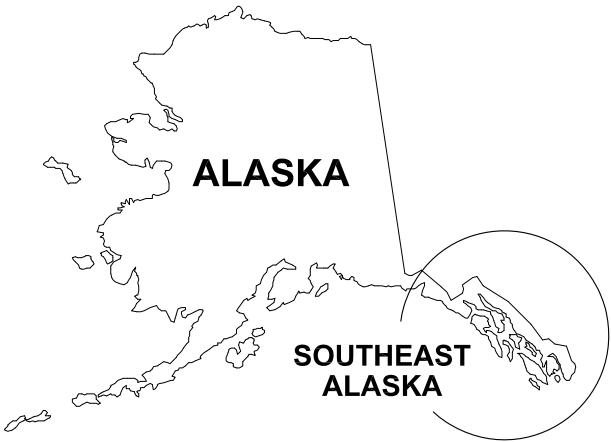
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SOUTHEAST ALASKA



VICINITY MAP



LOCATION MAP

PROJECT SCHEDULE

DESCRIPTION	SCHEDULE
EARLIEST FIELD START	AUGUST 17, 2015
SUBSTANTIAL COMPLETION	OCTOBER 1, 2015
FINAL COMPLETION	OCTOBER 10, 2015

DRAWING INDEX

SHEET NO.	DWG. NO.	TITLE	
GENERAL			
1	OF 9	1.01	TITLE SHEET, VICINITY MAP AND DRAWING INDEX
2	OF 9	1.02	LEGEND, ABBREVIATIONS AND GENERAL NOTES
3	OF 9	1.03	EXISTING CONDITIONS AND DEMOLITION SITE PLAN
4	OF 9	1.04	EXISTING GANGWAY AND APPROACH DOCK SITE PLAN
5	OF 9	1.05	DEMOLITION DETAILS
5	OF 9	1.06	DEMOLITION DETAILS TYPICAL FLOAT
WATER SYSTEM			
6	OF 9	2.01	WATER SYSTEM PLAN, PROFILE & DEMOLITION DETAILS
7	OF 9	2.02	WATERLINE TRENCH DETAILS
8	OF 9	2.03	WATER SYSTEM DETAILS
ELECTRICAL			
E1	OF 2	E1.01	SITE PLAN & LEGEND
E2	OF 2	E1.02	MAINWALKS A,B,C, & HEADWALK DEMOLITION PLAN

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SHEET TITLE:
TITLE SHEET, VICINITY MAP
AND DRAWING INDEX

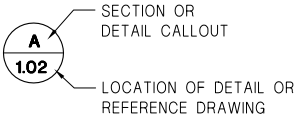
PND PROJECT NO.: 152012

1.01
SHEET
1 OF 9

ABBREVIATIONS

A		H		Q	
@	AT	H&T	HUB & TACK	QTY	QUANTITY
AC	ASBESTOS CEMENT PIPE	HD	HEAVY DUTY	R	
ACP	ASPHALT CONCRETE PAVEMENT	HOG	HOT-DIPPED GALVANIZED	RAD	RADIUS
ADA	AMERICANS WITH DISABILITIES ACT	HDPE	HIGH DENSITY POLYETHYLENE	RE	RIM ELEVATION
ADJ	ADJUSTABLE	HORIZ	HORIZONTAL	REF	REFERENCE
APF	ASSOCIATED PILE AND FITTING CORP.	HSE	HOUSE	REINF	REINFORCEMENT
APPROX. or APPX.	APPROXIMATE	HT	HEIGHT	REQD	REQUIRED
ATS	ALASKA TIDELANDS SURVEY	HWY.	HIGHWAY	RET	RETAINING
AV	AIR RELEASE VALVE	I		RO	ROUGH OPENING
B		IAW	IN ACCORDANCE WITH	ROW	RIGHT OF WAY
BCC	BEGINNING OF CURB CUT	ID	INSIDE DIAMETER	S	
BFV	BUTTERFLY VALVE	IE	INVERT ELEVATION	S	SOUTH
BLDG	BUILDING	IN	INCH	SCHED/SCH	SCHEDULE
BOP/BP	BEGINNING OF PROJECT	IP	IRON PIPE	SD	STORM DRAIN
BTM, BOT	BOTTOM	INCL	INCLUDE (D) (ING)	SDI	STORM DRAIN INLET STRUCTURE
C		INCL	INCLUDE (D) (ION)	SDO	STORM DRAIN OUTLET STRUCTURE
C&G	CURB & GUTTER	INV	INVERT	SDR	STANDARD DIMENSION RATIO
CB	CATCH BASIN	J		SF	SQUARE FOOT
CBJ	CITY & BOROUGH OF JUNEAU	JB	JUNCTION BOX	SHLDR	SHOULDER
CI	CAST IRON	L		SI	STREET INTERSECTION
CIP	CAST-IN-PLACE	LBS	POUNDS	SPEC	SPECIFICATION (S)
CJ	CONTROL JOINT	LF	LINEAR FEET	SQ	SQUARE
CL	CENTER LINE	LL	LIVE LOAD	SRB	SHOT ROCK BORROW
CLR	CLEAR	LOC	LOCATION	SSC	SANITARY SEWER CONNECTION
CMP	CORRUGATED METAL PIPE	LS	LUMP SUM	SS	STAINLESS STEEL, SANITARY SEWER
CO	CLEANOUT	M		SDMH	STORM DRAIN MANHOLE
C.O.E.	CORPS OF ENGINEERS	MAX	MAXIMUM	SSMH	SANITARY SEWER MANHOLE
COMM	COMMUNICATION	M.E.	MATCH EXISTING	STA	STATION
CONC.	CONCRETE	MECH	MECHANICAL	STD	STANDARD
CP	COMPLETE PENETRATION	MFR	MANUFACTURE (R)	STL	STEEL
CPEP/CPP	CORRUGATED POLYETHYLENE PIPE	MH	MANHOLE	STRG	STRONG
COR	CORNER	MJ	MECHANICAL JOINT	SW	SEWER
CSC	COUNTERSINK	MI	MALLEABLE IRON	SWR	SQUARE YARD
CTR	CENTER	MIN	MINIMUM	SY	SYMMETRICAL
CY	CUBIC YARD	MLLW	MEAN LOWER LOW WATER	T	
D		MSF	1000 SQUARE FEET	t	THICK
DCP	DISSIMILAR PIPE COUPLING	MSE	MECHANICALLY STABILIZED EARTH	T&B	TOP AND BOTTOM
D/DIA	DIAMETER	MTL	MATERIAL (S)	T&G	TONGUE AND GROOVE
DBL	DOUBLE	N		TBC	TOP BACK OF CURB
DEMO	DEMOLITION	N	NORTH	TBD	TO BE DETERMINED
DL	DEAD LOAD	NFS	NON FROST SUSCEPTIBLE	TBM	TEMPORARY BENCH MARK
DIP	DUCTILE IRON PIPE	NIC	NOT IN CONTRACT	TD	TRENCH DRAIN
DIM	DIMENSION	NO	NUMBER	TEL	TELEPHONE
DN	DOWN	NTS	NOT TO SCALE	TEMP	TEMPERATURE, TEMPORARY
DTL	DETAIL	O		TH	TEST HOLE
E		OBD	OVERBURDEN	THK	THICK
E	EAST	OC	ON CENTER	TRANS	TRANSVERSE
EA.	EACH	OD	OUTSIDE DIAMETER	TV	TELEVISION
EC	EDGE OF CONCRETE	OG	ORIGINAL GOUND	TYP	TYPICAL
ECC	END OF CURB CUT	OHE	OVERHEAD ELECTRICAL	U	
EG	EXISTING GRADE	OWS	OIL-WATER SEPARATOR	UBC	UNIFORM BUILDING CODE
EJ	EXPANSION JOINT	OPP	OPPSITE	UE	UNDERGROUND ELECTRIC
EL/ELEV	ELEVATION	P		UMC	UNIFORM MECHANICAL CODE
ELEL	ELECTRICAL	P	PIPE	ULMW	ULTRA HIGH MOLECULAR WEIGHT
EOP	END OF PROJECT	PCC	PRECAST CONCRATE	UON/UNO	UNLESS OTHERWISE NOTED
EP	END PROJECT/EDGE OF PAVEMENT	PE	POLYETHYLENE	UPC	UNIFORM PLUMBING CODE
EQ	EQUAL	PED	PEDESTAL	V	
EQUIP	EQUIPMENT	PER	PERIMETER	VB	VALVE BOX
EST	ESTIMATE	PERF	PERFORATE (D)	VERT	VERTICAL
EW	EACH WAY	PI	POINT OF INTERSECTION	VG	VALLEY GUTTER
EXC	EXCAVATE	PLWD	PLYWOOD	W	
EXIST, (E)	EXISTING	PL	PROPERTY LINE, PLATE	W/	WEST
F		POC	POINT OF CURVE	WD	WOOD
FC	FACE OF CURB	PP	POLYPROPYLENE	WELDMT	WELDMENT
FD	FLOOR DRAIN	PRC	POINT OF REVERSE CURVATURE	WL	WATERLINE
FF	FINISHED FLOOR	PROJ	PROJECT	WQU	WATER QUALITY UNIT
FG	FINISHED GRADE	PRKG	PARKING	WV	WATER VALVE
FH	FIRE HYDRANT, FLAT HEAD	PRV	PRESSURE REDUCING VALVE	WW	WATER WATER
FIN	FINISH (ED)	PSI	POUND PER SQUARE INCH	WWTP	WASTE WATER TREATMENT PLANT
FM	FORCE MAIN SEWER	PT	POINT, PRESSURE TREATED,	W/O	WITHOUT
FND	FOUNDATION	PVC	POINT OF TANGENCY	X	
FOC	FACE OF CURB	PVI	POINT OF VERTICAL CURVATURE,	XFMR	TRANSFORMER
FT	FOOT		POLY-VINYL CHLORIDE	<PT	ANGLE POINT
FTG	FOOTING				
FL	FLOWLINE OR FLANGE				
G					
GAL	GALLON				
GALV	GALVANIZED				
GB	GRADE BREAK				
GLB	GLUE LAMINATED BEAM				
GPM	GALLONS PER MINUTE				
GRD	GROUND				
GV	GATE VALVE				

EXISTING	PROPOSED	
-----		CENTERLINE
-----		EDGE ACP OR GRAVEL ROADWAY
- X - X - X -		FENCE
-----OHE-----		OVERHEAD ELECTRIC LINE
-----		PROPERTY LINE
-----UE-----		UNDERGROUND ELECTRIC LINE
-----SS-----		UNDERGROUND SANITARY SEWER LINE
=====		UNDERGROUND STORM DRAIN PIPE
-----W _k -----	-----W-----	UNDERGROUND WATER LINE
		SET SPIKE OR PK NAIL
		SURVEY MONUMENT
		BOREHOLE
PND-04-1 		CATCH BASIN
		ELECTRIC PEDESTAL
		ELECTRIC TRANSFORMER
		FIRE HYDRANT
		GUY ANCHOR
+ -25.2 		GROUND SPOT ELEVATION (MLLW)
		JUNCTION BOX
		KEY BOX/WATER VALVE
		LIGHT POLE OR PILE MOUNTED LIGHT
		SANITARY SEWER MANHOLE
		SIGN
		STORM DRAIN MANHOLE
		STORM DRAIN MANHOLE W/ CONC. AREA DRAIN
		TELEPHONE RISER
		TREE(S)
		UTILITY POLE



GENERAL NOTES

1. EROSION AND POLLUTION CONTROL PLANS

THE CONTRACTOR SHALL DEVELOP AND SUBMIT FOR ENGINEER AND AGENCY REVIEW AND APPROVAL A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS PLAN SHALL INCLUDE AN EROSION AND SEDIMENT CONTROL PLAN BASED UPON THE CONTRACTOR'S SCHEDULING, EQUIPMENT AND WORK. TO THE GREATEST EXTENT POSSIBLE FOLLOW THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT/PF) ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE (ASWPPPG). THE PLAN SHALL CONSIDER FIRST PREVENTING EROSION, THEN MINIMIZING AND TRAPPING SEDIMENT PRIOR TO ITS ENTERING THE WATERWAYS. THE PLAN MUST ADDRESS THE SITE-SPECIFIC CONTROLS AND MANAGEMENT FOR THE CONSTRUCTION SITE AS WELL AS ALL MATERIAL SITES, WASTE DISPOSAL SITES AND AFFECTED AREAS. THE PLAN MUST INCORPORATE ALL THE REQUIREMENTS OF THE PROJECT PERMITS. BEST MANAGEMENT PRACTICES AS LISTED IN THE ASWPPPG SHALL BE USED.

THE CONTRACTOR SHALL PREPARE A HAZARDOUS MATERIAL CONTROL PLAN (HMCP) FOR THE HANDLING, STORAGE, CLEAN-UP AND DISPOSAL OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES. THE CONTRACTOR SHALL LIST AND GIVE LOCATIONS OF ALL HAZARDOUS MATERIALS, INCLUDING FIELD OFFICE MATERIALS, TO BE USED AND STORED ON-SITE AND THEIR ESTIMATED QUANTITIES. THE PLAN SHALL PROVIDE DETAILS FOR STORING THESE MATERIALS AS WELL AS DISPOSING WASTE PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS GENERATED BY THE PROJECT.

IDENTIFY THE LOCATIONS WHERE HAZARDOUS MATERIAL STORAGE, FUELING AND MAINTENANCE ACTIVITIES WILL TAKE PLACE. IF ON-SITE, DESCRIBE THE MAINTENANCE ACTIVITIES AND LIST ALL CONTROLS TO PREVENT THE ACCIDENTAL SPILLAGE OF OIL, PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS. DETAIL PROCEDURES FOR CONTAINMENT AND CLEANUP OF HAZARDOUS SUBSTANCES INCLUDING A LIST OF THE TYPES AND QUANTITIES OF EQUIPMENT AND MATERIALS AVAILABLE ON-SITE TO BE USED.

THE PLAN SHALL PROVIDE DETAILS FOR PREVENTION, CONTAINMENT, CLEAN-UP AND DISPOSAL OF SOIL AND WATER CONTAMINATED BY ACCIDENTAL SPILLS AND FOR UNEXPECTED CONTAMINATED SOIL AND WATER ENCOUNTERED DURING CONSTRUCTION.

2. MATCH EXISTING GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH ELEVATIONS AT EXISTING ROADS.
3. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE PRESENT HOWEVER ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY, PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITY COMPANIES PRIOR TO ANY/ ALL EXCAVATIONS AT THE FOLLOWING TELEPHONE NUMBERS:

DIAL BEFORE YOU DIG!

586-1333

UNDERGROUND POWER, TELEPHONE, T.V., COMMUNICATIONS, WATER AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN HERE DO NOT SUBSTITUTE FOR FIELD LOCATES.

4. CBJ ENGINEERING STANDARD DETAILS BOOK DATED AUGUST, 2011 IS MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
5. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
6. GRADING AND ALIGNMENT OF PIPE, STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES.
7. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.



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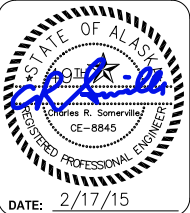
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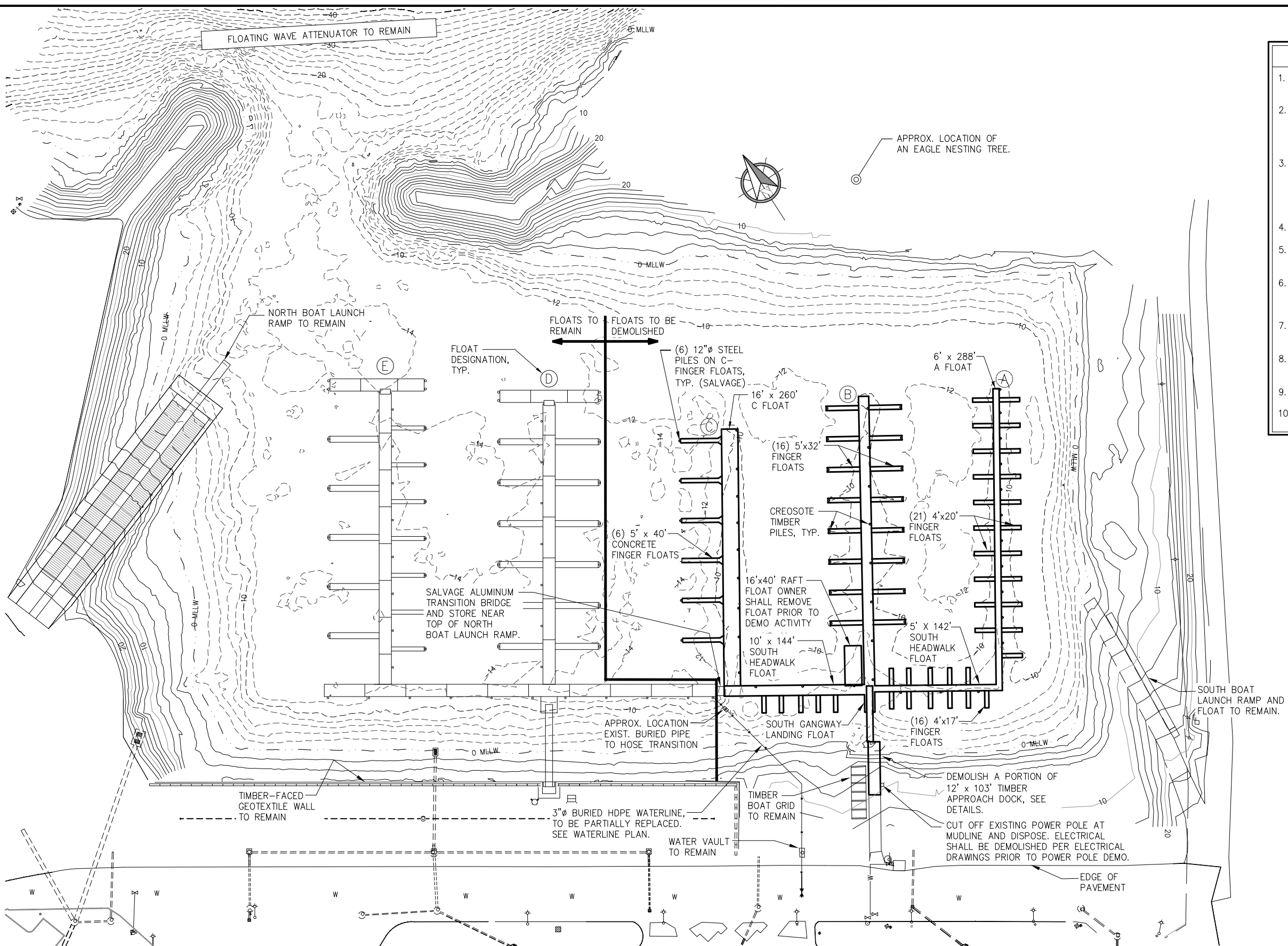
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PHASE I
CBJ PROJECT - DH15-004

SHEET TITLE:
LEGEND, ABBREVIATIONS
AND GENERAL NOTES

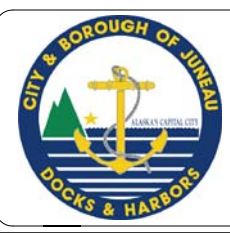
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1.02
SHEET
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- ### DEMOLITION & SALVAGE SUMMARY
1. OWNER SHALL SALVAGE ALL WATER PEDESTALS ON FLOATS PRIOR TO DEMOLITION, COORDINATE AS REQUIRED.
 2. THE OWNER SHALL DIRECTLY PAY FOR DUMP FEES TO CAPITOL DISPOSAL IN THE EVENT THE CONTRACTOR UTILIZES THE JUNEAU LANDFILL AS A DISPOSAL SITE FOR ITEMS DESIGNATED TO BE DISPOSED.
 3. REMOVE AND DISPOSE SOUTH HEADWALK FLOATS, MAINWALK FLOATS A, B, C, AND ASSOCIATED FINGER FLOATS IN THEIR ENTIRETY INCLUDING ALL TIMBER, CONCRETE, UTILITIES, MISCELLANEOUS APPURTENANCES AND ALL ASSOCIATED TIMBER PILES.
 4. ALL FLOATS & PILES DESIGNATED FOR DEMOLITION AND DISPOSAL ARE TIMBER EXCEPT AS NOTED.
 5. SALVAGE SIX (6) STEEL PIPE PILES FROM THE MAINWALK FLOAT C FINGERS AND DELIVER THEM TO THE LITTLE ROCK DUMP.
 6. REMOVE AND SALVAGE 6'x50' SOUTH GANGWAY INCLUDING ALL MOUNTING HARDWARE, MISCELLANEOUS APPURTENANCES AND DELIVER TO THE LITTLE ROCK DUMP AS NOTED.
 7. REMOVE AND SALVAGE ALUMINUM TRANSITION BRIDGE, DELIVER TO TOP OF NORTH BOAT LAUNCH RAMP PER OWNER DIRECTION.
 8. DEMOLISH APPROXIMATELY 49.5' OF EXISTING APPROACH DOCK INCLUDING THREE (3) PILE BENTS AND ASSOCIATED TIMBER PILES, SEE DETAILS.
 9. REMOVE AND DISPOSE ELECTRICAL ITEMS PER ELECTRICAL DRAWINGS.
 10. SEE WATER SYSTEM DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND DETAILS.

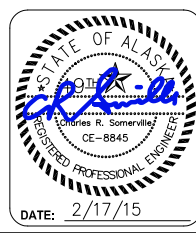


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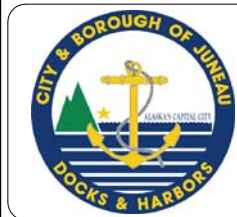
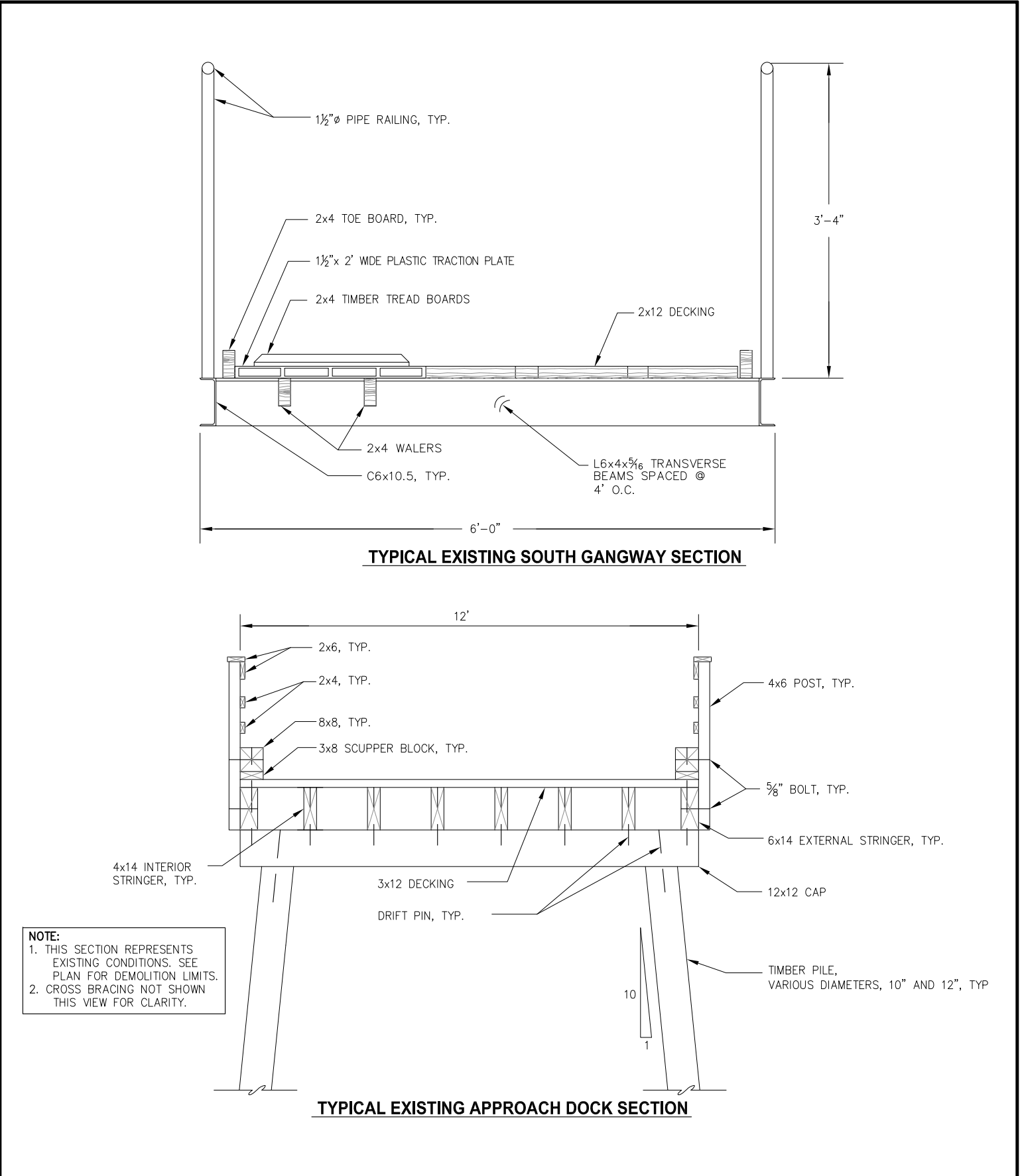
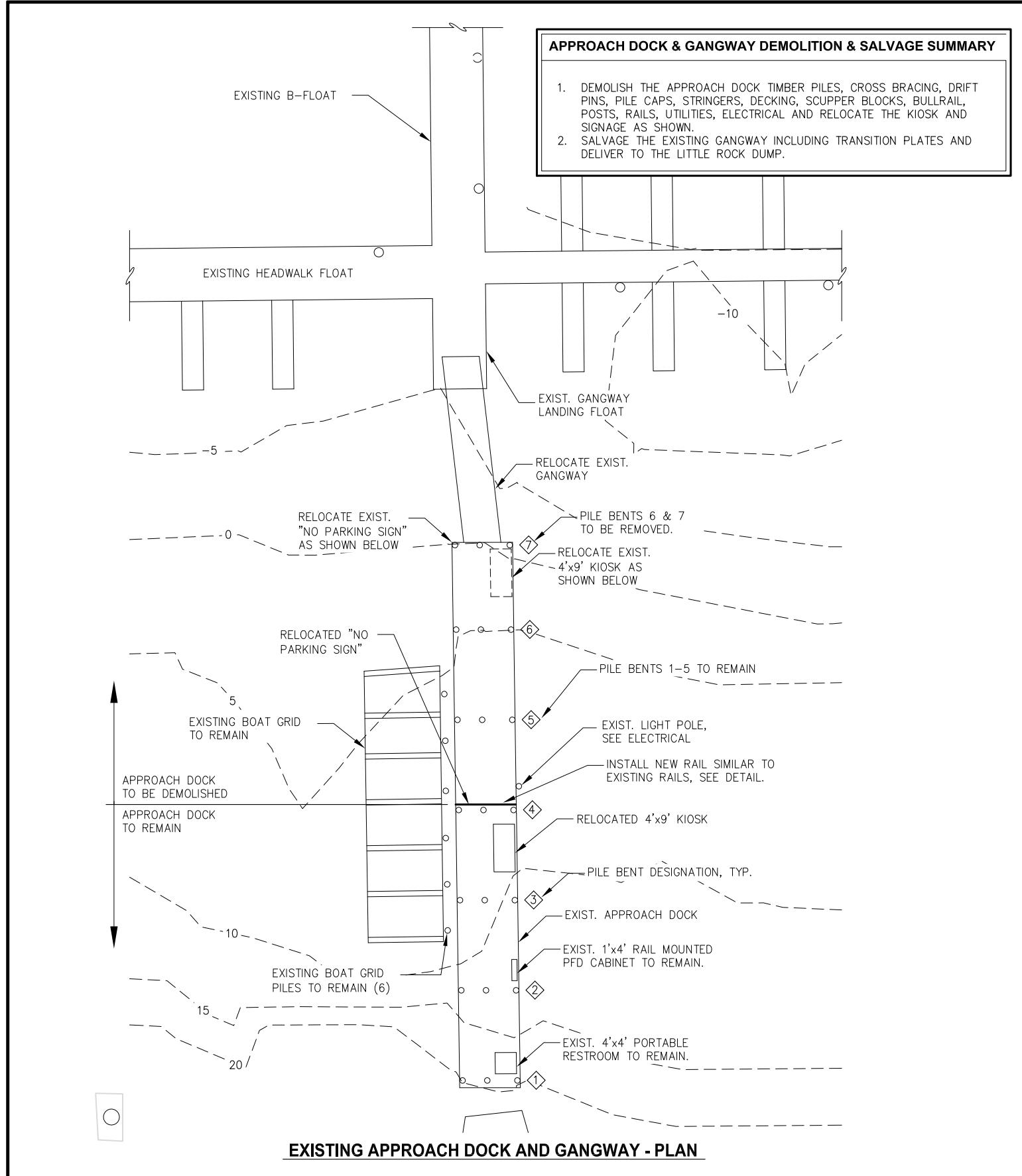


**OLD DOUGLAS HARBOR REBUILD
PHASE I**
CBJ PROJECT - DH15-004

SHEET TITLE:
**EXISTING CONDITIONS AND
DEMOLITION SITE PLAN**

PND PROJECT NO: 152012

1.03
SHEET
3 OF 9



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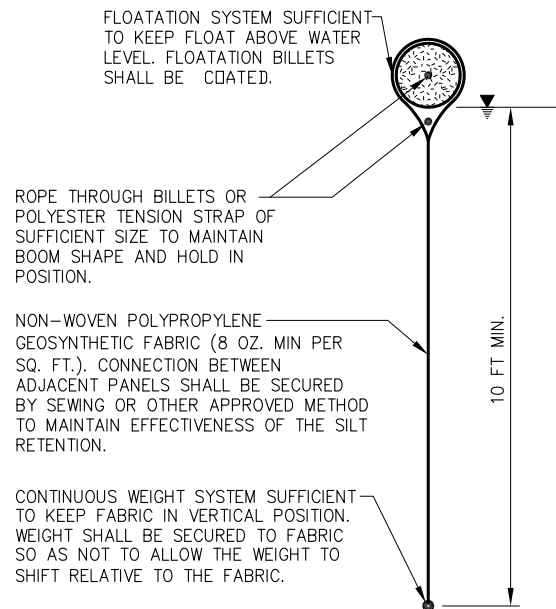


**OLD DOUGLAS HARBOR REBUILD
PHASE I
CBJ PROJECT - DH15-004**

**EXISTING GANGWAY &
APPROACH DOCK SITE PLAN**

1.04
SHEET
4 OF 9

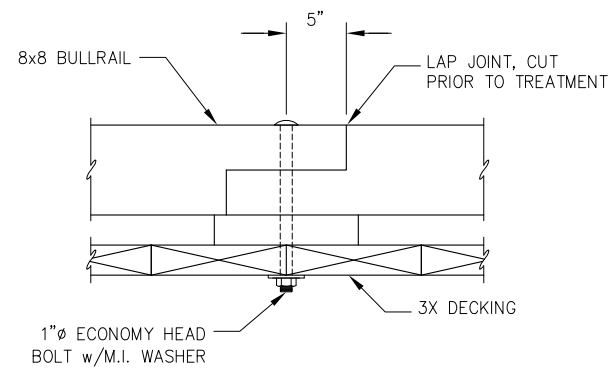
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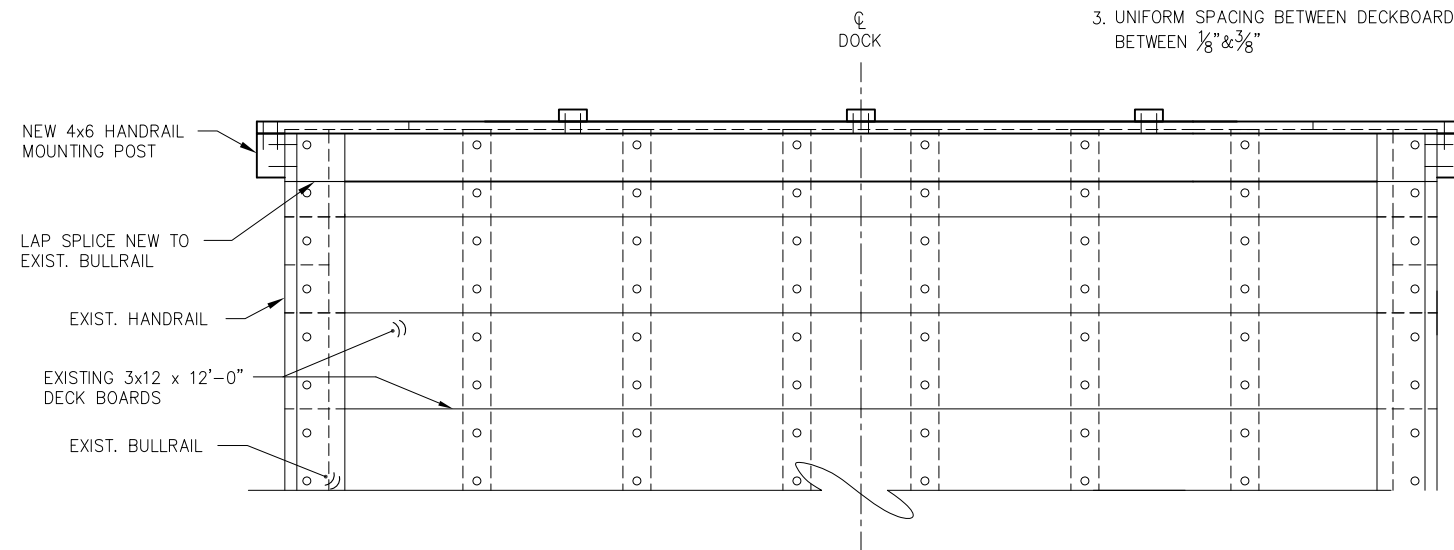
SILT CONTAINMENT BOOM

NOTES:

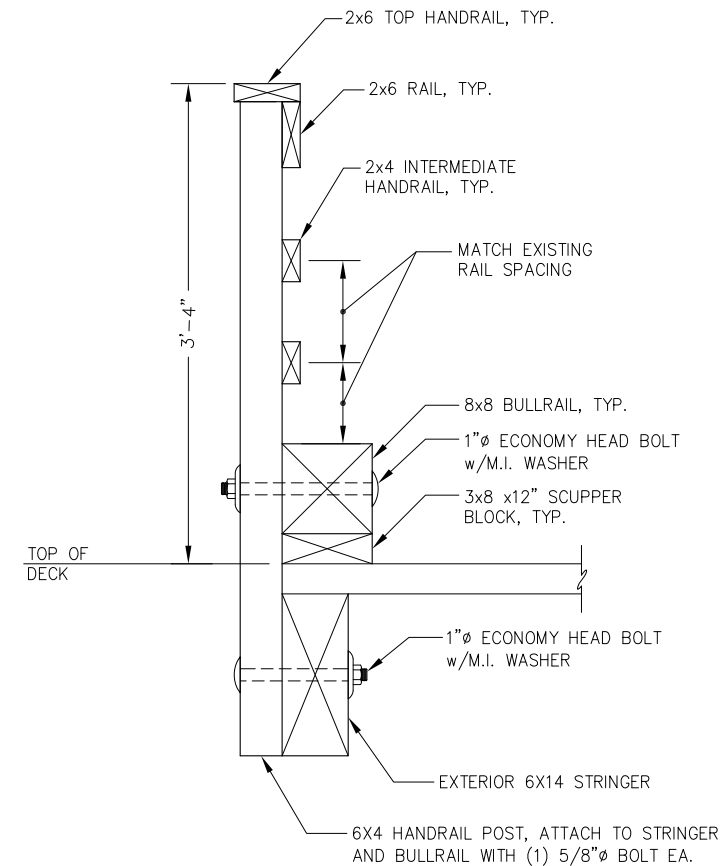
1. GENERAL REQUIREMENTS SHOWN, SEE SPECIFICATIONS SECTION 02882. FINAL DESIGN BY CONTRACTOR.
2. PLACE AND SECURE BOOM APPROXIMATELY 10' SEAWARD OF THE WATERLINE SYSTEM TRENCH EXCAVATION. MONITOR AND MAINTAIN POSITION AND INTEGRITY DURING ALL FILL PLACEMENT OPERATIONS.
3. REMOVE AND DISPOSE BOOM UPON COMPLETION OF ALL FILL PLACEMENT.



DOCK BULLRAIL SPLICE



END OF APPROACH DOCK / HANDRAIL PLAN



TYPICAL HANDRAIL SECTION

- NOTES:
1. 2X6 TOP RAIL NOT SHOWN FOR CLARITY
 2. ATTACH RAIL MEMBERS TO 4x6 POSTS w/(2) 16d SPIRAL SHANK GALV. NAILS. ATTACH TO 2x4 POST WITH (2) 8d SPIRAL SHANK GALV. NAILS.
 3. UNIFORM SPACING BETWEEN DECKBOARDS BETWEEN $\frac{1}{8}$ " & $\frac{3}{8}$ "



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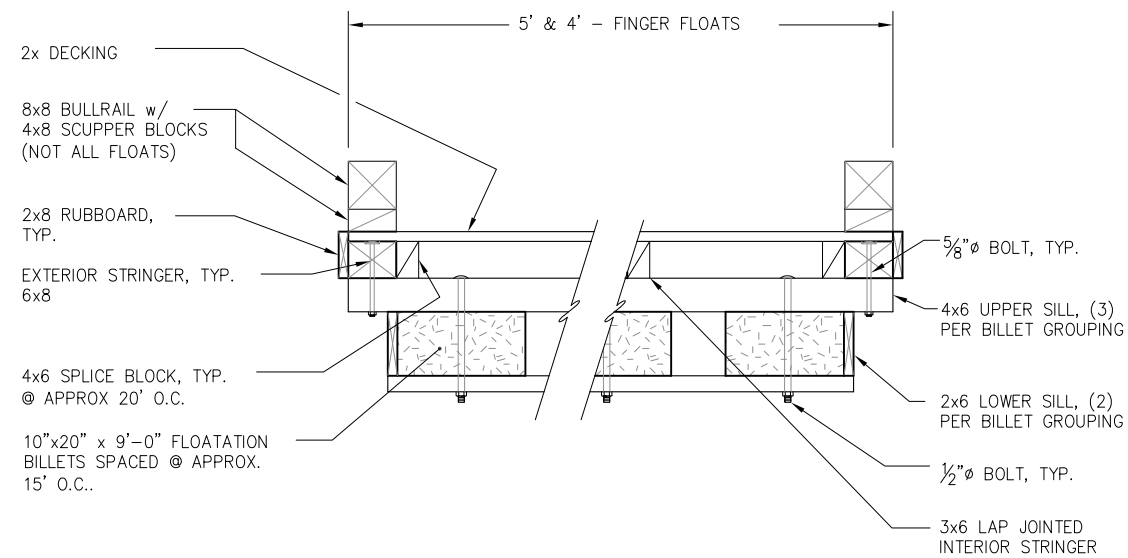
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SHEET TITLE:
DEMOLITION DETAILS

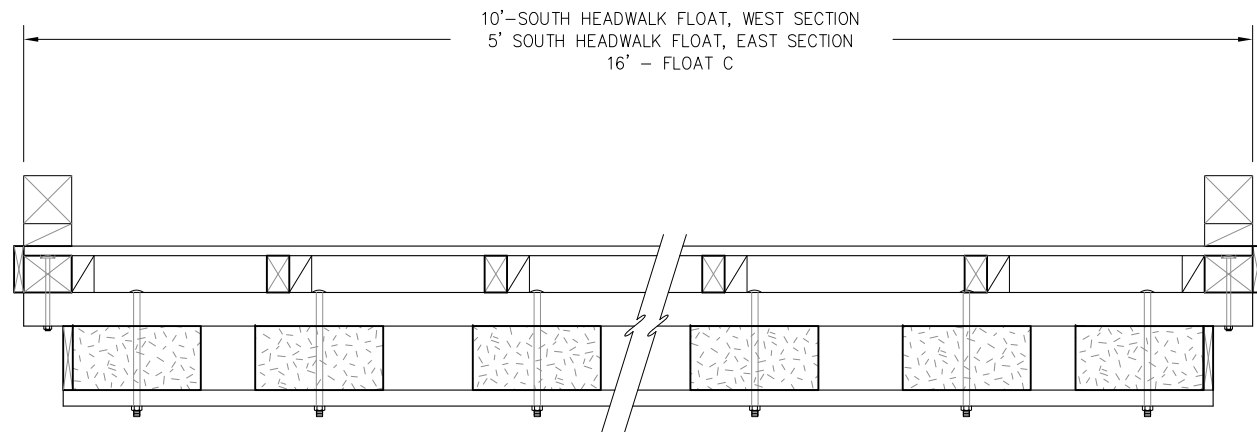
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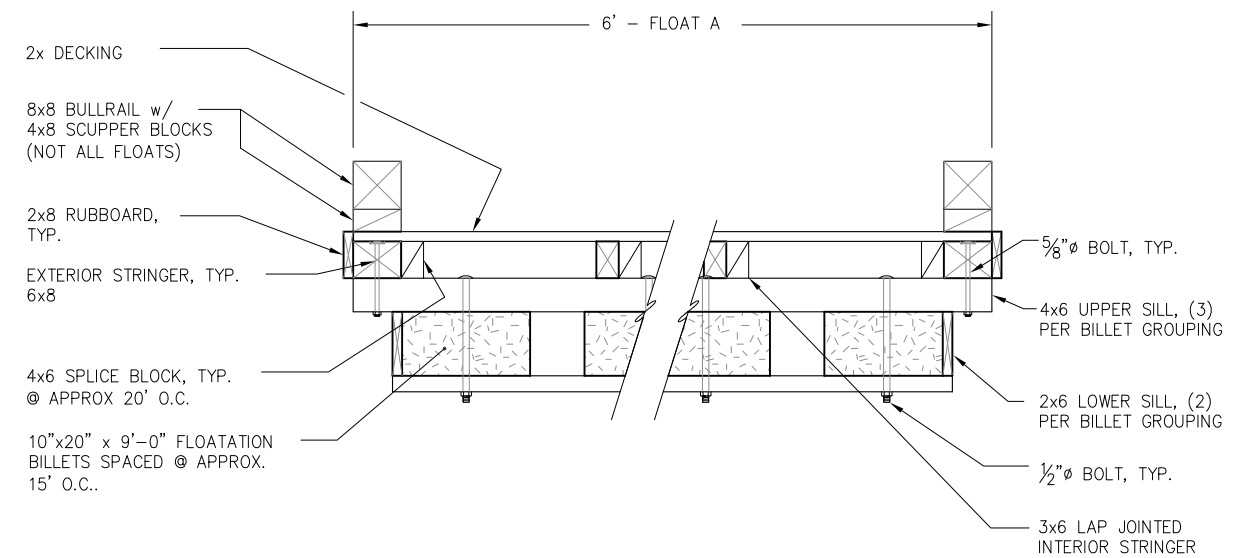
SHEET
5 OF 9



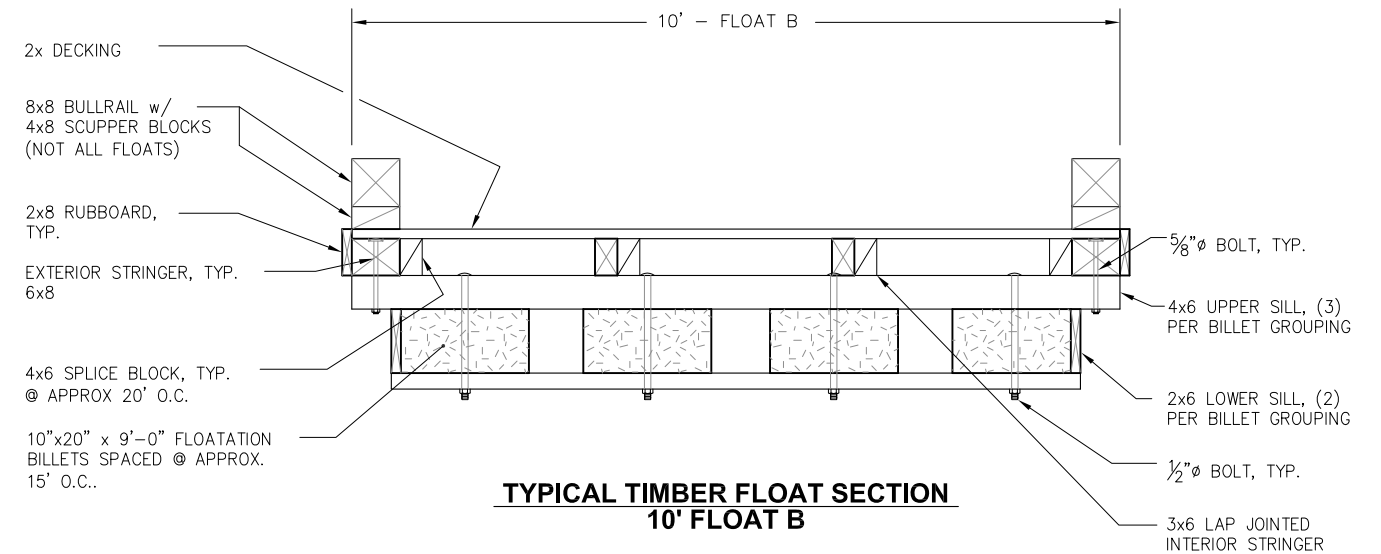
**TYPICAL TIMBER FLOAT SECTION
5' & 4' FINGER FLOAT**



**TYPICAL TIMBER FLOAT SECTION
10'-SOUTH HEADWALK FLOAT, WEST SECTION
5' SOUTH HEADWALK FLOAT, EAST SECTION
16' FLOAT C**



**TYPICAL TIMBER FLOAT SECTION
6' FLOAT A**



**TYPICAL TIMBER FLOAT SECTION
10' FLOAT B**

NOTES:

1. ALL TIMBER AND FLOATATION DETAILS SHOWN APPROXIMATE, EXISTING VARIES
2. UTILITIES NOT SHOWN
3. CONCRETE FLOATS NOT SHOWN



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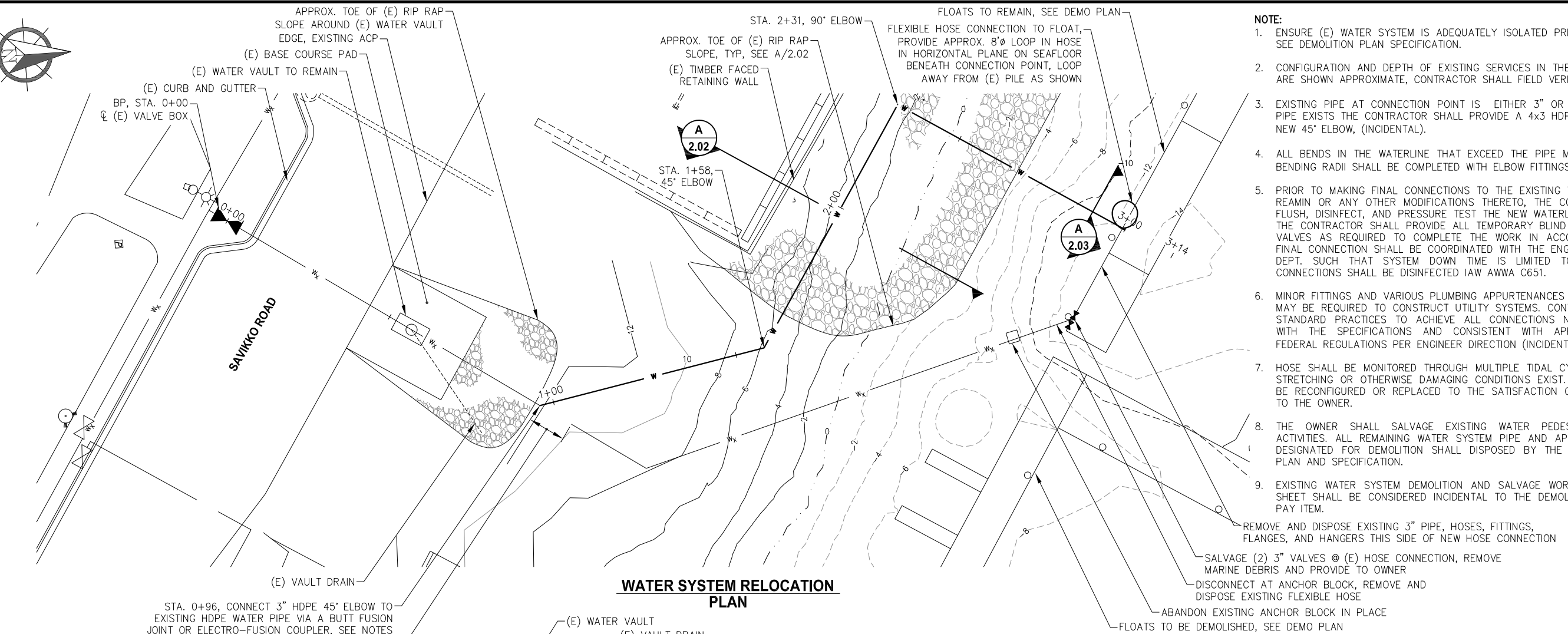
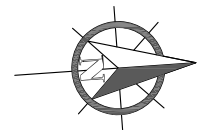


**OLD DOUGLAS HARBOR REBUILD
PHASE I
CBJ PROJECT - DH15-004**

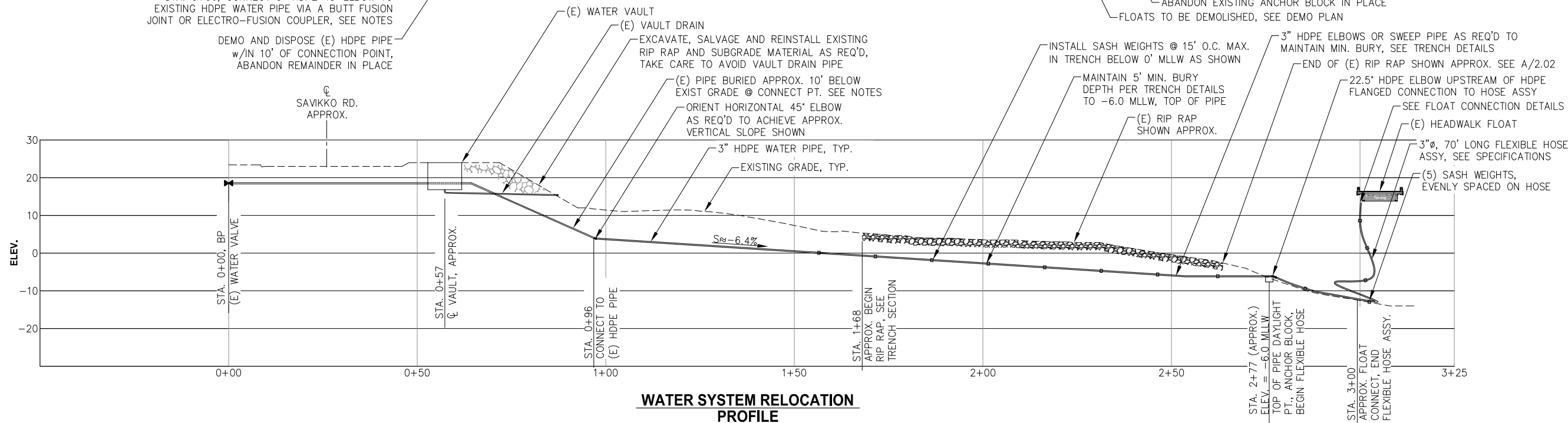
SHEET TITLE:
**DEMOLITION DETAILS
TYPICAL FLOAT**

PND PROJECT NO.: 152012

1.06
SHEET
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- NOTE:**
1. ENSURE (E) WATER SYSTEM IS ADEQUATELY ISOLATED PRIOR TO DEMOLITION OF FLOATS, SEE DEMOLITION PLAN SPECIFICATION.
 2. CONFIGURATION AND DEPTH OF EXISTING SERVICES IN THE UPSTREAM CONNECTION AREA ARE SHOWN APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY.
 3. EXISTING PIPE AT CONNECTION POINT IS EITHER 3" OR 4" HDPE. IN THE EVENT A 4" PIPE EXISTS THE CONTRACTOR SHALL PROVIDE A 4x3 HDPE REDUCER UPSTREAM OF THE NEW 45° ELBOW, (INCIDENTAL).
 4. ALL BENDS IN THE WATERLINE THAT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED BENDING RADII SHALL BE COMPLETED WITH ELBOW FITTINGS AS REQ'D, (INCIDENTAL).
 5. PRIOR TO MAKING FINAL CONNECTIONS TO THE EXISTING WATER SYSTEM DESIGNATED TO REMAIN OR ANY OTHER MODIFICATIONS THERETO, THE CONTRACTOR SHALL CONSTRUCT, FLUSH, DISINFECT, AND PRESSURE TEST THE NEW WATERLINE AND FLEXIBLE HOSE ASSY. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BLIND FLANGES, TAPS, FITTINGS AND VALVES AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SPECIFICATIONS. FINAL CONNECTION SHALL BE COORDINATED WITH THE ENGINEER, OWNER AND CBJ WATER DEPT. SUCH THAT SYSTEM DOWN TIME IS LIMITED TO 4 HOURS MAXIMUM. FINAL CONNECTIONS SHALL BE DISINFECTED IAW AWWA C651.
 6. MINOR FITTINGS AND VARIOUS PLUMBING APPURTENANCES NOT SHOWN IN UTILITY SHEETS MAY BE REQUIRED TO CONSTRUCT UTILITY SYSTEMS. CONTRACTOR SHALL USE INDUSTRY STANDARD PRACTICES TO ACHIEVE ALL CONNECTIONS NOT DETAILED IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSISTENT WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS PER ENGINEER DIRECTION (INCIDENTAL).
 7. HOSE SHALL BE MONITORED THROUGH MULTIPLE TIDAL CYCLES TO ENSURE NO BINDING, STRETCHING OR OTHERWISE DAMAGING CONDITIONS EXIST. UNSATISFACTORY HOSE SHALL BE RECONFIGURED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE OWNER.
 8. THE OWNER SHALL SALVAGE EXISTING WATER PEDESTALS PRIOR TO DEMOLITION ACTIVITIES. ALL REMAINING WATER SYSTEM PIPE AND APPURTENANCES ON THE FLOATS DESIGNATED FOR DEMOLITION SHALL DISPOSED BY THE CONTRACTOR, SEE DEMOLITION PLAN AND SPECIFICATION.
 9. EXISTING WATER SYSTEM DEMOLITION AND SALVAGE WORK SHOWN OR DESCRIBED THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE DEMOLITION, DISPOSAL AND SALVAGE PAY ITEM.



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APPROVED: CRS

SCALE: SCALE IN FEET

0 15 30 FT.

**OLD DOUGLAS HARBOR REBUILD
PHASE I
CBJ PROJECT - DH15-004**

SHEET TITLE:
**WATER SYSTEM PLAN, PROFILE
AND DEMOLITION DETAILS**

PND PROJECT NO: 152012

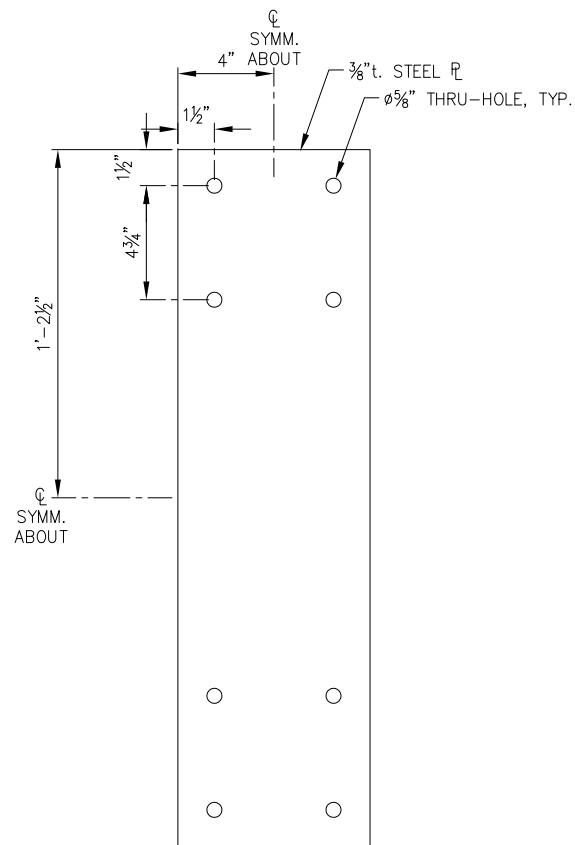
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SHEET
7 OF 9

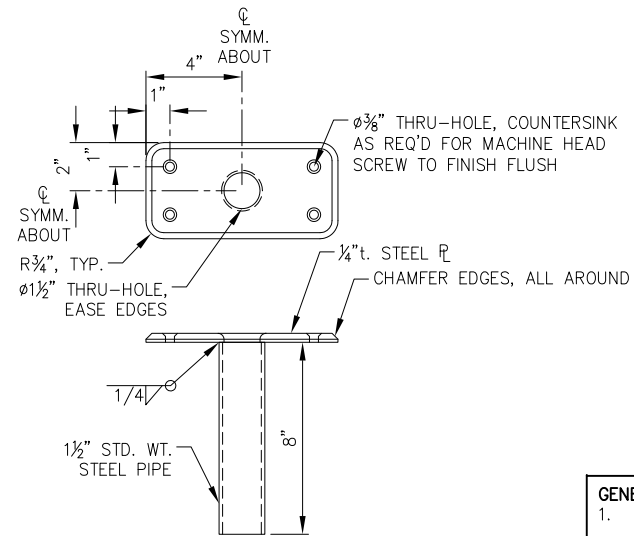


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OF 9

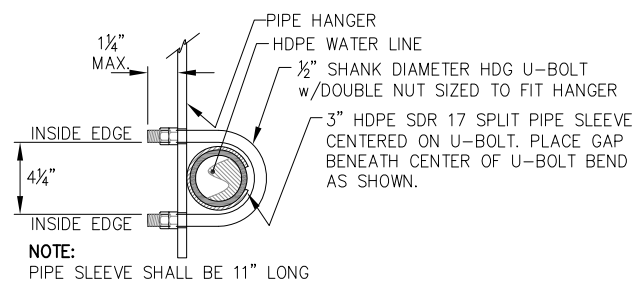




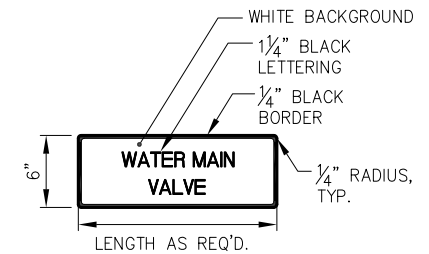
**PIPE HANGER
DETAIL**



**VALVE RISER BRACKET
DETAIL**



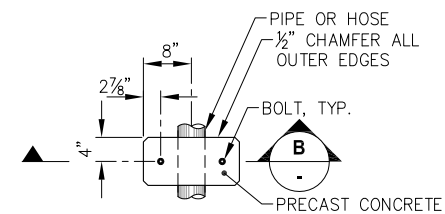
**PIPE MOUNTING
DETAIL**



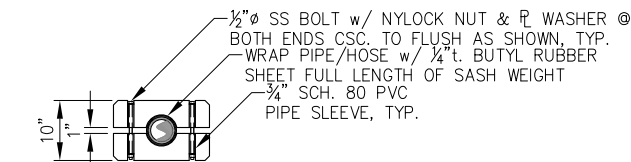
NOTE:
MOUNT ON BULLRAIL ADJACENT VALVE RISER BRACKET
w/ (4) 1/4" x 3" S.S. SCREWS w/WASHERS. FINAL
LOCATION PER ENGINEER DIRECTION.

**VALVE SIGNAGE
DETAIL**

- GENERAL NOTES:**
1. ALL FABRICATED STEEL AND HARDWARE SHALL BE HOT DIP GALVANIZED EXCEPT AS NOTED.
 2. ALL STEEL DESIGNATED AS STAINLESS STEEL SHALL BE 316L STAINLESS STEEL.
 3. EASE ALL EDGES OF FABRICATED STEEL PIECES.
 4. ALL HOT DIP GALVANIZED PARTS SHALL BE GALVANIZED AFTER FABRICATION.
 5. ALL LAG BOLTED CONNECTIONS SHALL BE PILOT DRILLED.
 6. HOLES THROUGH TIMBER FOR HANGER BOLTS AND RISER BRACKETS TO BE FIELD DRILLED, TAKE CARE TO AVOID FLOAT HARDWARE, TREAT ALL TIMBER CUTS & PENETRATIONS PER AWPA M-4



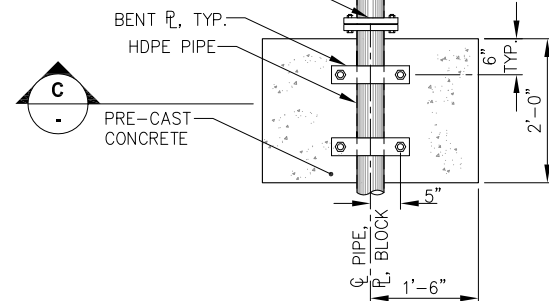
**SASH WEIGHT
PLAN**



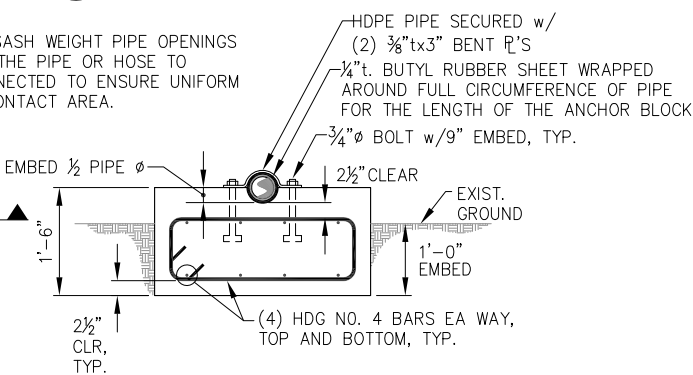
**SASH WEIGHT
SECTION**

HOSE WHERE APPLICABLE, SEE SPECIFICATIONS FOR HOSE AND FITTING REQUIREMENTS
FLANGED CONNECTION TO HOSE WHERE APPLICABLE SEE SITE PLAN

NOTE:
ANCHOR BLOCK AND SASH WEIGHT PIPE OPENINGS SHALL BE SIZED FOR THE PIPE OR HOSE TO WHICH THEY ARE CONNECTED TO ENSURE UNIFORM CONTACT FOR FULL CONTACT AREA.



**ANCHOR BLOCK
PLAN**



**ANCHOR BLOCK
SECTION**

VALVE RISER BRACKET, CENTER OVER RISER & ROUTE DECK AS REQ'D TO ENSURE BRACKET IS INSTALLED 1/8" BELOW DECK SURFACE

SECURE BRACKET TO DECK w/ (4) 1/4" x 1 1/2" LONG SS MACHINE HEAD SCREWS

316 SS WELD ROD, TYP. ALL WELDS ON RISER ASSY.

5/16" t 316 SS PL FABRICATE TO SQUARE WRENCH TO FIT VALVE OPERATING NUT AND SEAL WELD CUTS

3" HDPE FULL PORT BALL VALVE

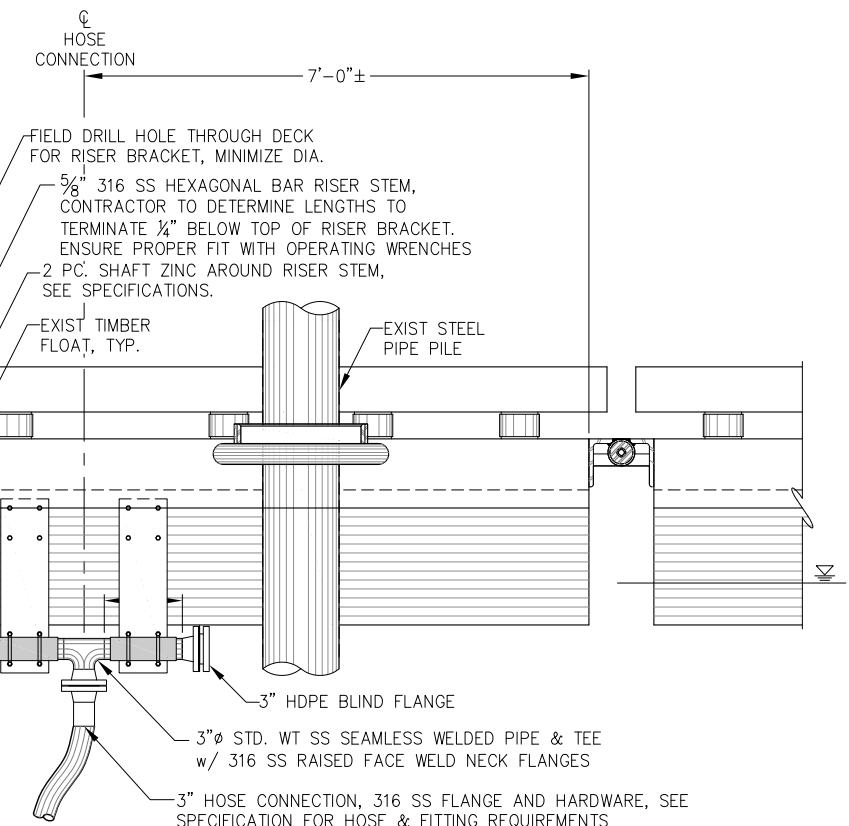
PIPE HANGER, MOUNT TO GLB w/ (4) 1/2" x 5" LONG HDG LAG BOLTS, VERTICAL POSITION SHALL BE AS REQ'D TO MATCH EXISTING PIPE, TYP.

CONNECT TO EXIST PIPE WITH BUTT JOINT OR ELECTRO-FUSION COUPLER IN APPROX. LOCATION SHOWN

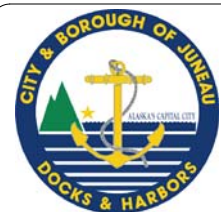
NOTE:

1. VALVES SHALL BE OPERATED WITH A TEE-HANDLE SOCKET WRENCH OF ADEQUATE LENGTH TO TURN THE HANDLE ABOVE THE BULLRAIL, PROVIDE SNAP-ON, OR EQUAL TEE HANDLE SOCKET WRENCH TO OWNER VERIFY FIT UP w/ 3/8" HEXAGONAL BAR.

2. HANGER ASSEMBLIES SHALL BE CLAMPED TO RESTRICT PIPE MOVEMENT



**A HOSE CONNECTION
2.01 ELEVATION**



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**OLD DOUGLAS HARBOR REBUILD
PHASE I
CBJ PROJECT - DH15-004**

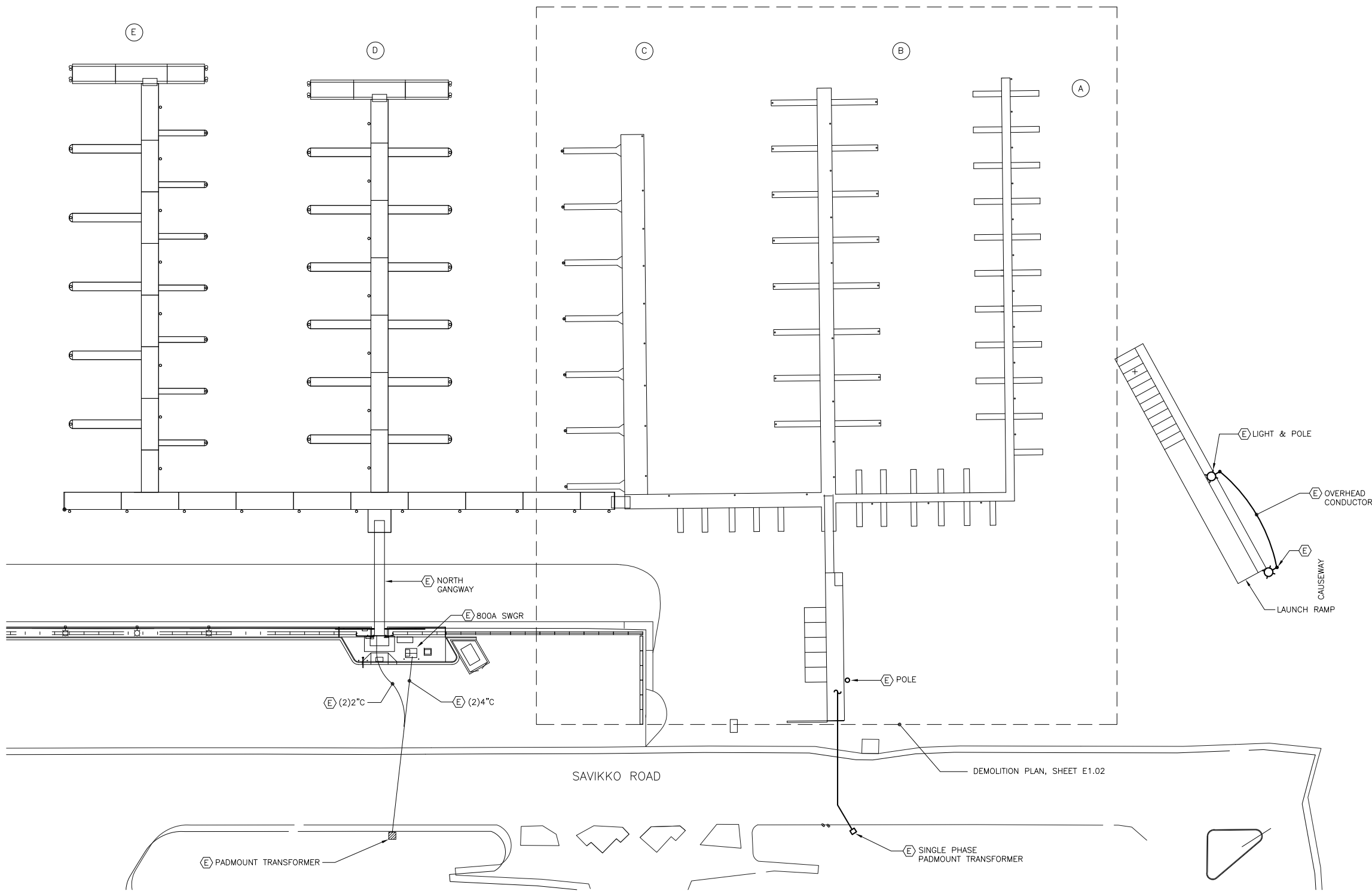
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WATER SYSTEM DETAILS

PND PROJECT NO: 152012

2.03

SHEET
9 OF 9

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SITE PLAN

LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CATV	CABLE TELEVISION
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
DIA	DIAMETER
EA	EACH
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDG	HOT DIPPED GALVANIZED
HOA	HAND-OFF-AUTO
LC	LIGHTING CONTACTOR
LFNC	LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT.
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MTD	MOUNTED
PH	PHASE
PVC	POLYVINYL CHLORIDE
SS	STAINLESS STEEL
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER

POWER

	SHORETIE PEDESTAL WITH DUAL 30 AMP 120V, 1 PH RECEPTACLES. SEE SHEET 6.13
	SHORETIE PEDESTAL WITH DUAL 50 AMP 208V, 1 PH AND 30 AMP, 120V, 1 PH RECEPTACLES. SEE SHEET 6.13
	SHORETIE PEDESTAL WITH BOLLARD LUMINAIRE ONLY.
	POLE MOUNTED LUMINAIRE
	HANDHOLE
	JUNCTION BOX
	CONDULET
	UTILITY POLE
	PANELBOARD
	TELEPHONE PEDESTAL
	GROUND ROD
	HOSE BIBB
	HEAT TRACE
	PHOTO ELECTRIC CONTROL
	EXISTING
	NEW
	REMOVE
	RELOCATE
	VIDEO CAMERA



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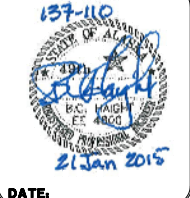
ENGINEERS, INC.

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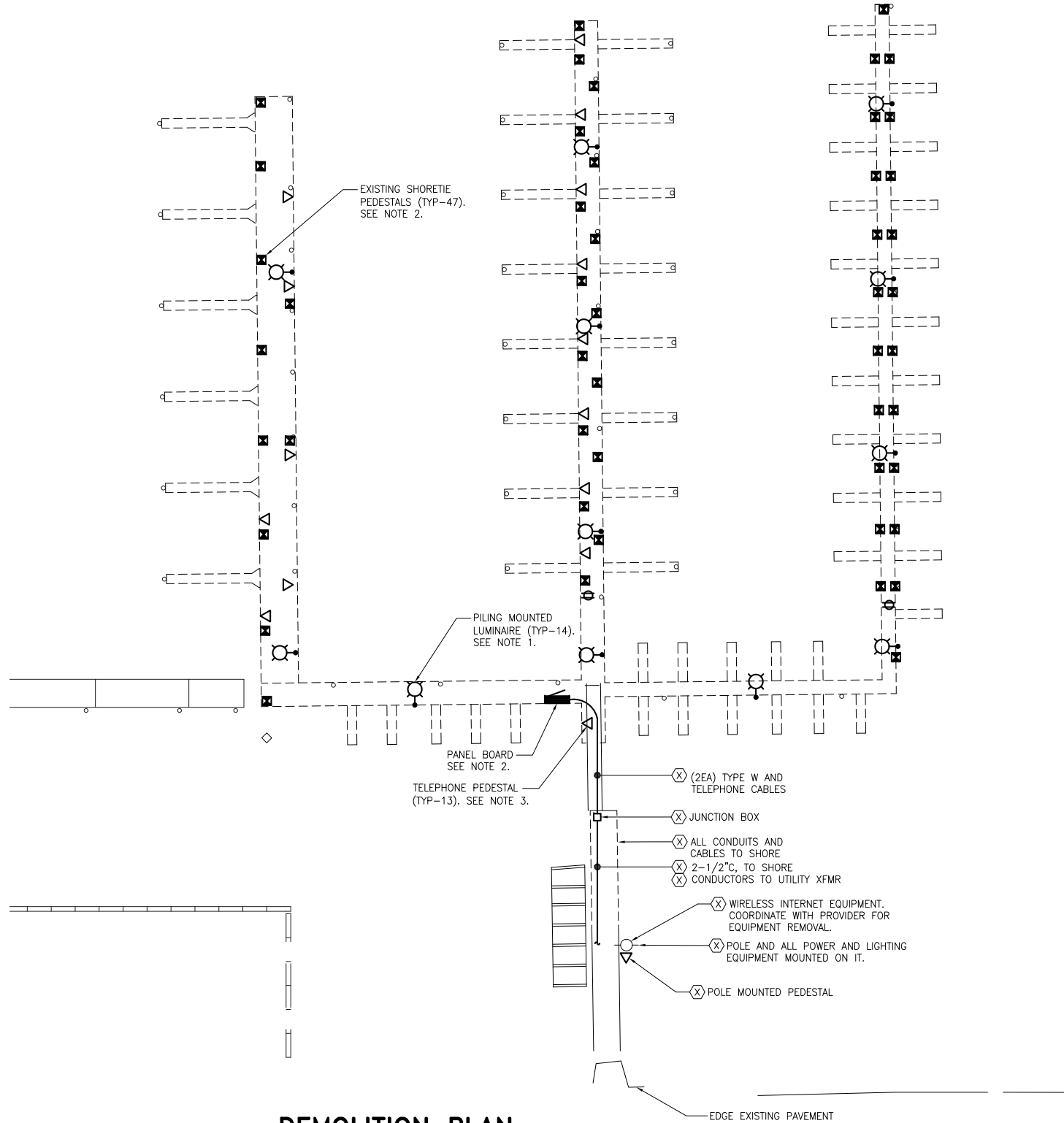
OLD DOUGLAS HARBOR REPLACEMENT
CBJ PROJECT NO. DH 07-133

SHEET TITLE: **SITE PLAN & LEGEND**

PN&D PROJECT NO. 062065.01 DWG. FILE: 61E1.01.DWG

E1.01
SHEET
E1 OF 2

Feb 11, 2015 - 3:59pm
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DEMOLITION PLAN

NOTES

1. EXISTING PILING MOUNTED LIGHTING SYSTEM INCLUDING AERIAL CABLES, LUMINAIRES AND LIGHTING CABLES SHALL BE DEMOLISHED IN THEIR ENTIRETY AND LEGALLY DISPOSED.
2. EXISTING POWER SYSTEM INCLUDING CABLE, SHORETIE PEDESTALS AND PANELBOARD SHALL BE DEMOLISHED IN THEIR ENTIRETY AND LEGALLY DISPOSED.
3. ALL TELEPHONE AND CATV SYSTEM COMPONENTS SHALL BE DEMOLISHED. COORDINATE REMOVAL OF THESE SYSTEMS DIRECTLY WITH UTILITIES AND THEIR CUSTOMERS.



REVISIONS					
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0 30 60FT



OLD DOUGLAS HARBOR REPLACEMENT
CBJ PROJECT NO. DH 07-133

SHEET TITLE:
MAINWALKS A,B,C & HEADWALK DEMOLITION PLAN

PN&D PROJECT NO. 062065.01 DWG. FILE: E1.02.DWG

E1.02
SHEET E2 OF 2