

PORT OF TACOMA

PIER 4 PHASE 1 REMOVAL ACTION PROJECT PROJECT NO. - 091452 CONTRACT NO. - 069982

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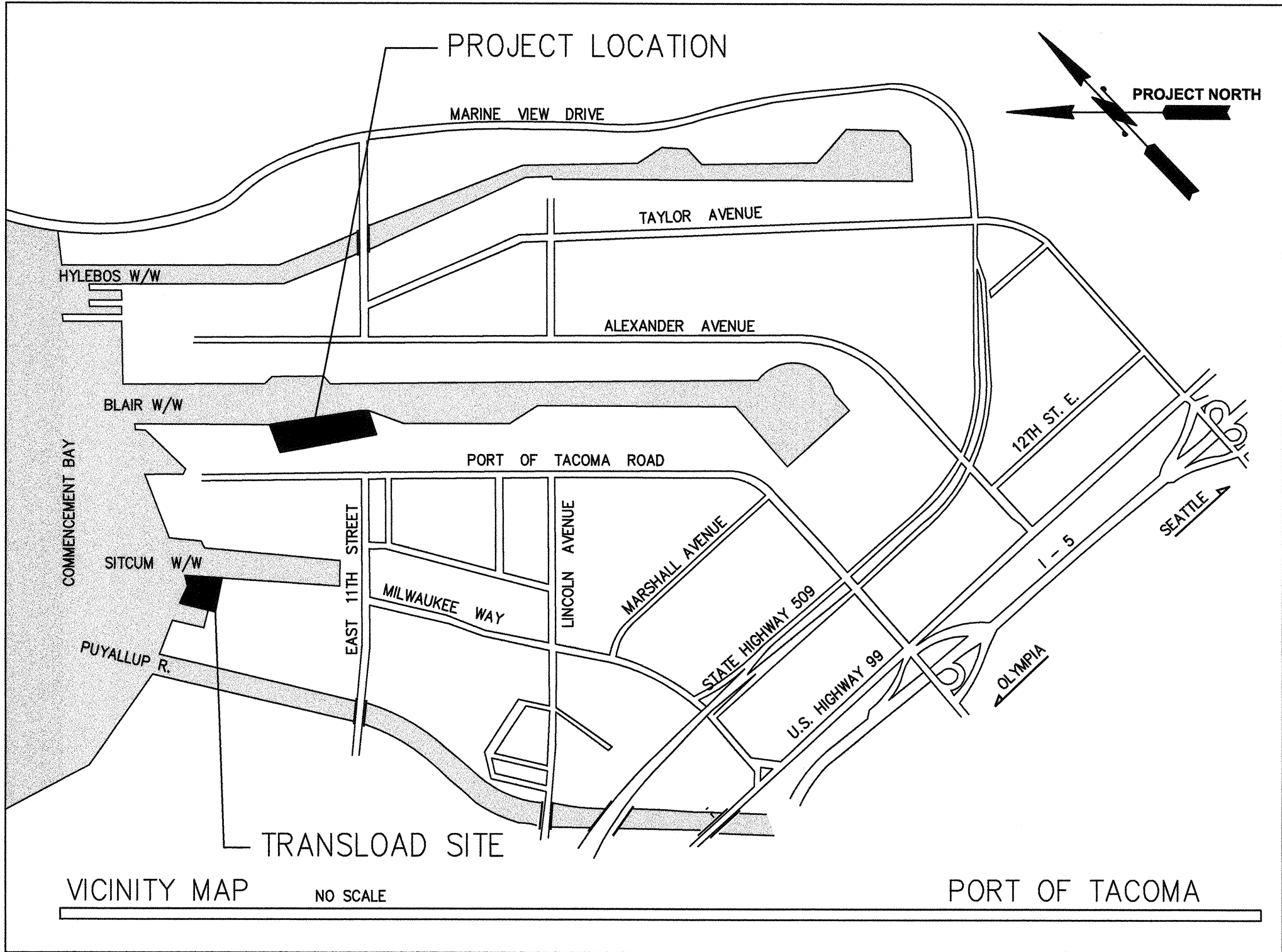
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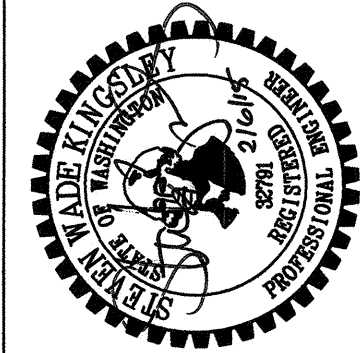


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MARK:	REVISION:	BY:	DATE:

SWK	2/6/2015
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APPROVED: *[Signature]*
2-6-15
DIRECTOR ENG. DATE: enlielsen Feb 05, 2015
PRINTED BY: enlielsen
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 1 REMOVAL ACTION PROJECT COVER SHEET	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DATE: MLLW 19.39' @ Tide 22 1933 DRAWING SCALE: AS NOTED
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G1.1 SH 1 OF 54	CONT/CONS: 069982 M. ID: 091452 PHASE: BID
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DRAWING LIST		
SHEET #	SHEET DESIGNATION	SHEET TITLE
GENERAL		
1	G1.1	COVER SHEET
2	G2.1	DRAWING LIST
3	G3.1	SYMBOLS AND ABBREVIATIONS
4	G3.2	GENERAL NOTES
5	G4.1	SURVEY CONTROL AND NOTES
6	G5.1	OVERALL SITE PLAN
7	G6.1	CONSTRAINTS AND ACCESS PLAN
8	G7.1	EXISTING CONDITIONS PLAN
9	G8.1	TESC GENERAL NOTES
10	G8.2	TESC PLAN - SHEET 1
11	G8.3	TESC PLAN - SHEET 2
12	G8.4	TESC PLAN - SHEET 3
13	G8.5	TESC DETAILS
DEMOLITION		
14	D1.1	UTILITY AND SITE DEMOLITION PLAN - SHEET 1
15	D1.2	UTILITY AND SITE DEMOLITION PLAN - SHEET 2
16	D1.3	UTILITY AND SITE DEMOLITION DETAILS
17	D2.1	PIER DEMOLITION PLAN - SHEET 1
18	D2.2	PIER DEMOLITION PLAN - SHEET 2
19	D3.1	PILE EXTRACTION PLAN - SHEET 1
20	D3.2	PILE EXTRACTION PLAN - SHEET 2
21	D4.1	PIER DEMOLITION SECTIONS - SHEET 1
22	D4.2	PIER DEMOLITION SECTIONS - SHEET 2
DREDGE		
23	C1.1	DREDGE PLAN
24	C1.2	DREDGE SECTIONS - SHEET 1
25	C1.3	DREDGE SECTIONS - SHEET 2
26	C1.4	DREDGE SECTIONS - SHEET 3
27	C1.5	DREDGE SECTIONS - SHEET 4
TRANSLOAD FACILITY		
28	C2.1	TRANSLOAD FACILITY LOCATION PLAN
29	C2.2	TRANSLOAD FACILITY PLAN
GRADING AND TEMPORARY PAVING		
30	C3.1	GRADING AND TEMPORARY PAVING PLAN - SHEET 1
31	C3.2	GRADING AND TEMPORARY PAVING PLAN - SHEET 2
32	C3.3	GRADING AND TEMPORARY PAVING DETAILS
NAVIGATION LIGHTING		
33	C4.1	NAVIGATION LIGHTING PLAN
34	C4.2	TEMPORARY NAVIGATION MARKER DETAILS

DRAWING LIST - CONTINUED		
SHEET #	SHEET DESIGNATION	SHEET TITLE
STRUCTURAL		
35	S1.1	TEST PILE LOCATION PLAN
36	S1.2	PRECAST CONCRETE PILE DETAILS
37	S1.3	NAVIGATION LIGHT DETAILS - SHEET 1
38	S1.4	NAVIGATION LIGHT DETAILS - SHEET 2
39	S1.5	STEEL PIPE PILE DETAILS
ELECTRICAL		
40	E1.1	ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
41	E2.1	SITE ELECTRICAL DEMOLITION KEY PLAN
42	E2.2	ELECTRICAL DEMOLITION PLAN - SHEET 1
43	E2.3	ELECTRICAL DEMOLITION PLAN - SHEET 2
44	E2.4	ELECTRICAL DEMOLITION PLAN - SHEET 3
45	E2.5	ENLARGED ELECTRICAL DEMOLITION PLAN SUBSTATION #8410
46	E3.1	SITE ELECTRICAL KEY PLAN
47	E3.2	ELECTRICAL PLAN - SHEET 1
48	E3.3	ELECTRICAL PLAN - SHEET 2
49	E3.4	ENLARGED ELECTRICAL PLAN SUBSTATION #8410
50	E4.1	DEMOLITION ONE-LINE DIAGRAM
51	E6.1	CONDUIT AND CONDUCTOR SCHEDULE
52	E6.2	CONDUIT AND CONDUCTOR SCHEDULE
53	E6.3	CONDUIT AND CONDUCTOR SCHEDULE
54	E6.4	CONDUIT AND CONDUCTOR SCHEDULE

G2.1 SH 2 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT DRAWING LIST				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE	SWK CHECKED BY MDK PROJ. ENGR	2/6/2015 DATE 2/6/2015 DATE
	CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E DAT-HRZ: WA83-SF PARCEL:	SECTION: 27 Tide 22 1933 MLLW 19.39' @	PRINTED BY: kvang Feb 03, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE	SWK CHECKED BY MDK PROJ. ENGR	2/6/2015 DATE 2/6/2015 DATE

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#	NUMBER
Ø	DIAMETER
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CONCRETE PIPE OR ASPHALTIC CONCRETE PAVEMENT
ACPA	AMERICAN CONCRETE PIPE ASSOCIATION
ADDL	ADDITIONAL
ADJ	ADJACENT
ADMIN	ADMINISTRATION
AGGR	AGGREGATE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APP or APPVD	APPROVED
APPROX	APPROXIMATE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
AVR	AIR & VACUUM RELEASE VALVE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BLDG	BUILDING
BM	BENCH MARK or BEAM
BMP or BMP'S	BEST MANAGEMENT PRACTICES
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BTW or BTWN	BETWEEN
BV	BALL VALVE
C.Y.	CONTAINER YARD OR CUBIC YARD
C/L	CENTERLINE
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CC	CENTER TO CENTER
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CL	CENTER LINE or CLASS
CLF	CHAIN LINK FENCE
CLR	CLEAR or CLEARANCE
CMB	CRUSHED MISCELLANEOUS BASE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMPR	COMPRESSOR
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUE or CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COUP	COUPLING
CPT	CONE PENETROMETER TEST
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSG	CASING
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CV	CHECK VALVE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST or EASTING
EA	EACH
EG	EXISTING GRADE
EL or ELEV	ELEVATION
ELEC or ELECT	ELECTRICAL
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	ELECTRICAL SUBSTATION
ETC	ET CETERA
EX or EXIST	EXISTING
EXP. JT	EXPANSION JOINT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	PORT FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE
FLGD	FLANGED JOINT

R	RIDGE or RADIUS
R/W OR ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RED	REDUCER
REF	REFERENCE
REINF	REINFORCE OR REINFORCING
REQ'D	REQUIRED
RP	RADIUS POINT
RR	RAILROAD
RT.	RIGHT
S	SLOPE
S	SOUTH
SCH or SCHED	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTH-EAST
SECT	SECTION
SERV	SERVICE
SHT	SHEET
SIM	SIMILAR
SJ	SLIP JOINT
SPECS	SPECIFICATIONS
SQFT	SQUARE FEET
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTH-WEST
SYM	SYMMETRIC or SYMBOL
T/R or TOR	TOP OF RAIL
TB	THRUST BLOCK
TBM	TEMPORARY BENCH MARK
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TG	TOP OF GRATE
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TOP	TOP OF PIPE or TOP OF SLOPE
TOR	TOP OF RAIL
TS	TRANSITION STRUCTURE
TW	TOP OF WALL
TYP	TYPICAL
UB	UPLAND BORING
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
VAC	VACUUM
VAR	VARIABLE or VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER, WEST, WIDTH
W/	WITH
W/O	WITHOUT
WABO	WASHINGTON ASSOCIATION OF BUILDING ASSOCIATES
WCB	WATERSIDE CRANE BEAM
WELD	WELDING
WHS	WELDED HEADED STUD
WM	WATER METER
WOB	WHARF OFFSHORE BORING
WP	PORT WATER CAP/PLUG
WT	PORT WATER TEE
WWAY	WALKWAY
WWR	WELD WIRE REINFORCEMENT
XS	EXTRA STRONG

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Diagram illustrating the numbering convention for detail, section, or elevation drawings on a sheet:

- NUMBER OF DETAIL, SECTION OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET** (Points to the 'X' in the circle)
- DRAWING NUMBER WHERE DETAIL, SECTION OR ELEVATION IS DRAWN** (Points to the 'X-X' below the circle)

DETAIL/SECTION

PLAN



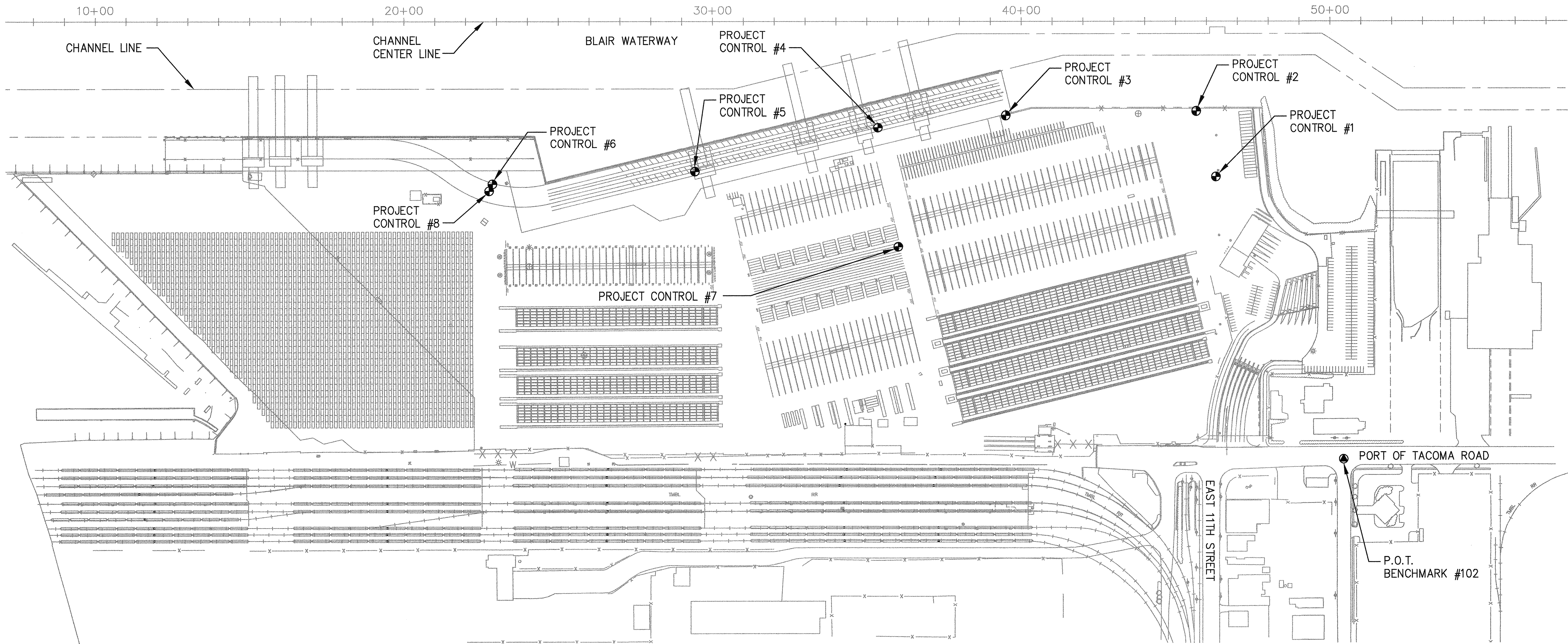
 SURVEY CONTROL POINT
 POT CONTROL POINT


 N XXXX
 E XXXX

COORDINATES

	EXISTING STORM DRAIN
	EXISTING SANITARY SEWER
	EXISTING BURIED POWER
	EXISTING TELEPHONE
	EXISTING EDGE OF PAVEMENT
	EXISTING EXISTING WATER
	EXISTING TYPE B SHIP BUMPER
	EXISTING TYPE A SHIP BUMPER
	EXISTING CRANE STOP BAR
	EXISTING STOW PIN
	EXISTING SHIP TIE DOWN
	EXISTING ELECTRICAL VAULT
	EXISTING TELEPHONE VAULT
	EXISTING LIGHT STANDARD
	EXISTING PEDESTRIAN WALK SYMBOL
	EXISTING STORM DRAIN MANHOLE
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING BOLLARD
	EXISTING CATCH BASIN
	EXISTING WATER VALVE
	EXISTING HANDICAP RAMP
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING WHARF ACCESS MANHOLE
	EXISTING WATER MANHOLE
	EXISTING WATER METER
	EXISTING POWER VAULT

1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ENGINEER BEFORE PROCEEDING. DIMENSIONS AND CALLOUTS NOTED AS PLUS OR MINUS ($\pm$) OR (REF) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY THE ENGINEER IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM AS INDICATED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS – DO NOT SCALE THE DRAWINGS
3. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND SIZES SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS, AND BRING ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK TO THE ENGINEER'S ATTENTION.
4. THE EXISTING PIER 4 STRUCTURE AND SITE UTILITIES HAVE UNDERGONE NUMEROUS REPAIR AND UPGRADE PROJECTS SINCE THE TIME OF THE ORIGINAL CONSTRUCTION. THESE REPAIRS MAY NOT ALL BE REFLECTED IN THESE CONTRACT DOCUMENTS, REFERENCE DRAWINGS FOR THESE CONTRACTS ARE AVAILABLE FROM THE PORT OF TACOMA.
5. A COPY OF THE PLANS SHALL BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THROUGHOUT THE PROGRESS OF THE WORK OF THIS CONTRACT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES IN THE CONTRACT DOCUMENTS. UPON THE COMPLETION OF THIS CONTRACT, PROVIDE ONE COMPLETE SET OF RECORD DOCUMENTS TO THE PORT OF TACOMA.
6. THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE PROJECT SITE PRIOR TO WORK. CONTRACTOR SHALL CONTACT 811 "CALL BEFORE YOU DIG" TO LOCATE ALL UTILITIES AT LEAST 48 HOURS PRIOR TO WORK.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES AND OTHER FEATURES THAT MAY IMPACT THE WORK. CONTRACTOR SHALL BRING ANY CONFLICTS TO THE ENGINEER'S ATTENTION PRIOR TO BEGINNING AFFECTED WORK.
8. ANY DAMAGE TO EXISTING UTILITIES, OTHER FACILITIES OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA AND WITHIN THE PORT OF TACOMA PROPERTY THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT. (EXCEPT FOR ITEMS DESIGNATED FOR DEMOLITION)
9. ALL ACTIVATION AND DEACTIVATION OF UTILITIES SHALL BE COORDINATED WITH THE ENGINEER IN ADVANCE. PROVIDE A MINIMUM OF 3 DAYS ADVANCE WRITTEN NOTICE TO THE ENGINEER.
10. THE CONTRACTOR SHALL KEEP ALL STREETS AND VEHICULAR TRAFFIC AREAS USED FOR THIS WORK CLEAN AT ALL TIMES, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
12. MAINTAIN UTILITY SERVICE TO EXISTING BUILDINGS, PIER 3 AND FIRE HYDRANTS DURING CONSTRUCTION UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER.



RELATIONSHIP BETWEEN VERTICAL DATUMS:

NAVD 88 = 3.50
MLLW = 6.17
NGVD 29 = 0.0

NAVD 88 = 0.0
MLLW = 2.67
NGVD 29 = -3.50

NAVD 88 = -2.67
MLLW = 0.00
NGVD 29 = -6.17

PORT OF TACOMA VERTICAL DATUM (1960-1978 EPOCH)

SURVEY AND DATUM INFORMATION:

- BATHYMETRIC SURVEY BY SOLMAR HYDRO AND SITTS + HILL ENGINEERS INC. DATED JULY, 2013.
- UPLAND SURVEY BY KPFF CONSULTING ENGINEERS DATED JANUARY 2013.
- DATUM INFORMATION:
HORIZONTAL DATUM: WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/07.
VERTICAL DATUM: TIDAL DATUM MLLW = 0.00'
- UPLAND SURVEY TIES TO PORT OF TACOMA SURVEY CONTROL AS SHOWN ON PORT OF TACOMA 2007 SURVEY CONTROL MAP TITLED "BLAIR-HYLEBOS PENINSULA CONTROL MAP." PREPARED BY PARAMETRIX DATED JANUARY 7, 2008.

SURVEY CONTROL PLAN

SCALE: 1"=200'

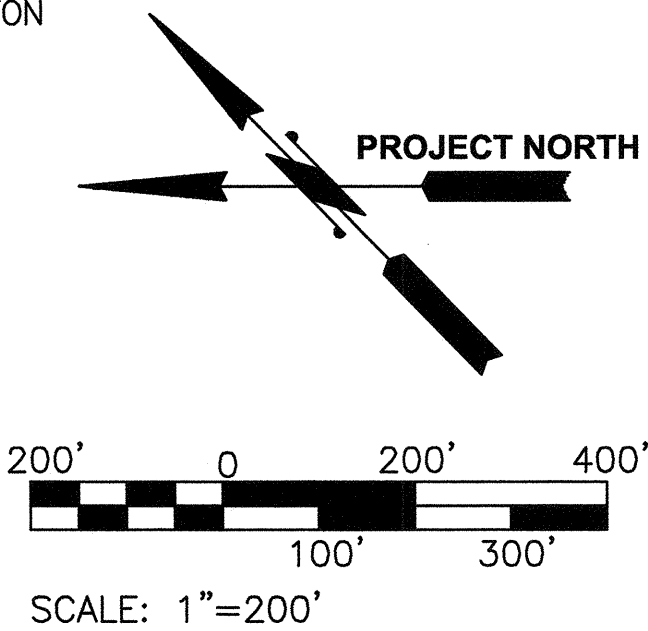
SURVEY CONTROL POINTS

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
102	711167.81	1167410.52	17.62	POT CONTROL POINT MNSB - 10' SW OF CL PORT OF TACOMA
106	709098.54	1169548.72	17.01	POT CONTROL POINT MNSB - INTERSECTION OF PORT OF TACOMA
1	712109.00	1167747.77	18.04	MAG NAIL
2	712306.49	1167850.98	17.34	MAG NAIL
3	712726.22	1167398.64	18.24	MAG NAIL
4	712986.28	1167074.44	17.11	MAG NAIL
5	713295.71	1166548.06	17.07	MAG NAIL
6	713723.48	1166048.58	16.73	MAG NAIL
7	712662.85	1166852.22	16.17	MAG NAIL
8	713714.79	1166025.29	16.47	MAG NAIL

TIDAL INFORMATION:

- TIDAL INFORMATION OBTAINED FROM NOAA WEBSITE FOR STATION 9446484 FOR THE 1983-2001 EPOCH.

HOWL	=	14.56'
MHHW	=	11.80'
MHW	=	10.92'
MSL	=	6.86'
MLW	=	2.85'
MLLW	=	0.0'
LOWL	=	-4.70'
- PROJECT SPECIFIC ORDINARY HIGH WATER MARK (OHWM) EL = 12.78', AS IDENTIFIED BY WASHINGTON DEPARTMENT OF FISH AND WILDLIFE (WDFW).



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APPROVED: *David H. Brown*
2-6-15
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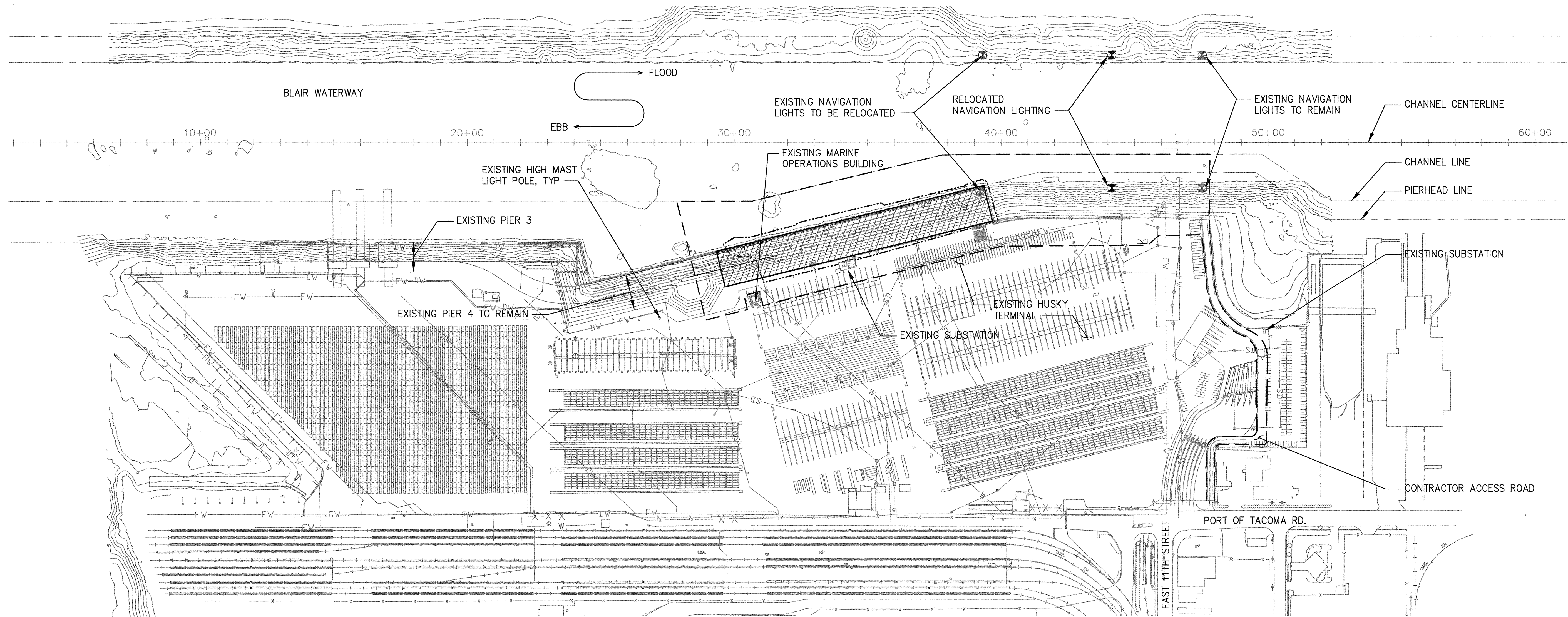
SWK 2/6/2015
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SITCUM PLAZA
TACOMA, WA 98401-1837

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PIER 4 PHASE 1
REMOVAL ACTION PROJECT
SURVEY CONTROL AND NOTES

G4.1
SH 5 OF 54
CONT/CONS: 069982
M. ID: 091452
PHASE: BID

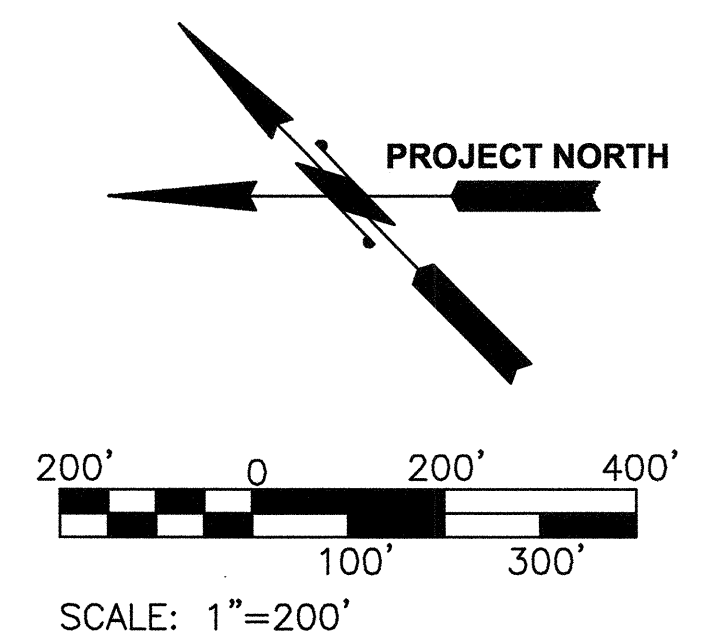
TOWNSHIP: 21N RANGE: 3E SECTION: 27
DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933
PARCEL: DRAWING SCALE: AS NOTED



SCALE: 1"=200'

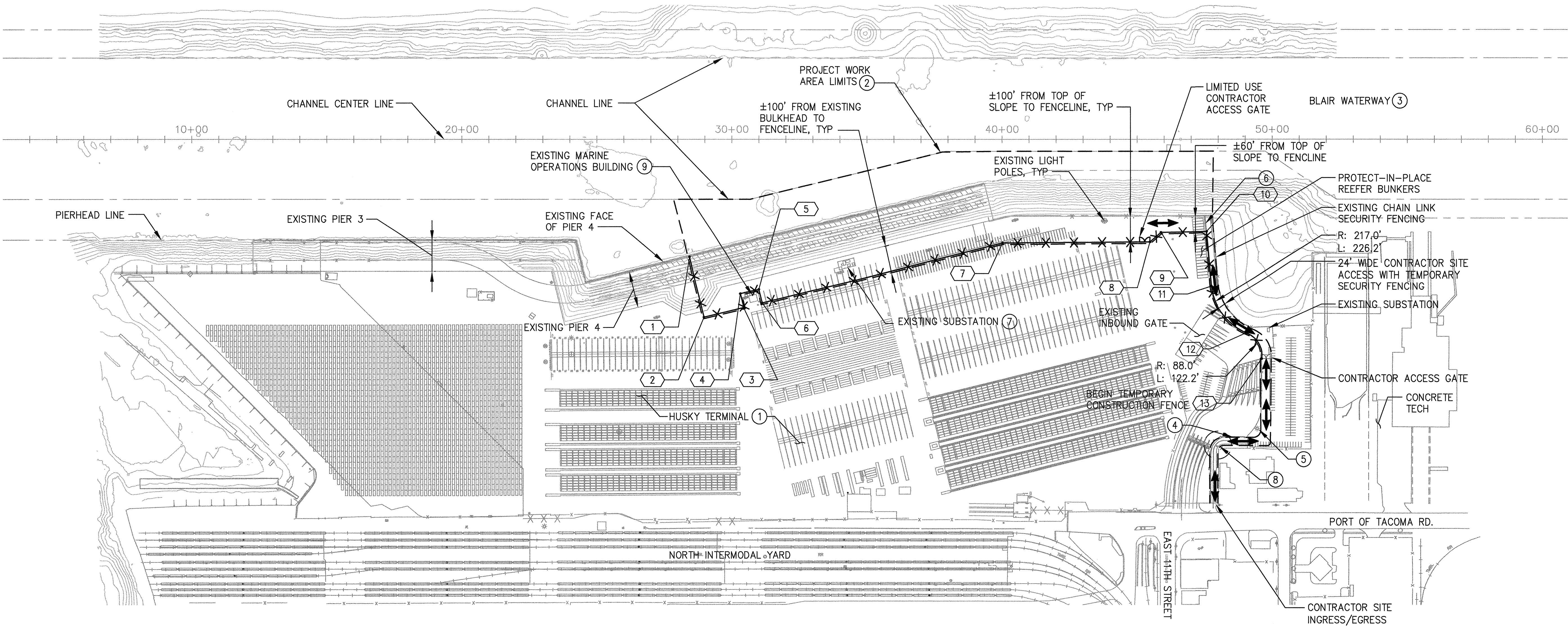
1. THIS PLAN PROVIDES AN OVERVIEW OF THE PROJECT ELEMENTS AND DOES NOT COMPLETELY DESCRIBE THE PROJECT. SEE COMPLETE CONTRACT DOCUMENTS FOR ALL CONTRACT AND PROJECT REQUIREMENTS.

 PROJECT WORK AREA LIMITS
 LIMITS OF DREDGING
 EXISTING PIER 4 DEMOLITION



G5.1 SH 6 OF 54 PIER 4 PHASE 1 REMOVAL ACTION PROJECT OVERALL SITE PLAN	APPROVED: 2-6-15		SWK CHECKED BY DATE	2/6/2015 DATE
	DIRECTOR ENG. DATE PRINTED BY: kvang Feb 03, 2015 PORT ADDRESS: ONE SITCUM PLAZA		MDK PROJ. ENGR DATE	2/6/2015 DATE
	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 19.33			
	PHASE: BID PARCEL:			
	DRAWING SCALE: AS NOTED			

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CONSTRAINTS AND ACCESS PLAN

SCALE: 1"=200'

LEGEND

- PROJECT WORK AREA LIMITS
- X-X- TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCKS, SEE 3 G8.5
- ↔ CONTRACTOR ACCESS ROUTE

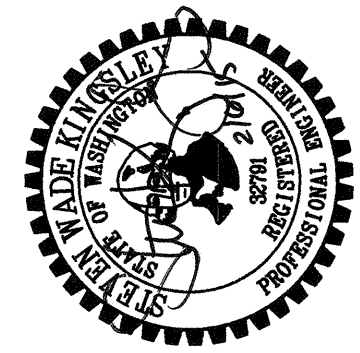
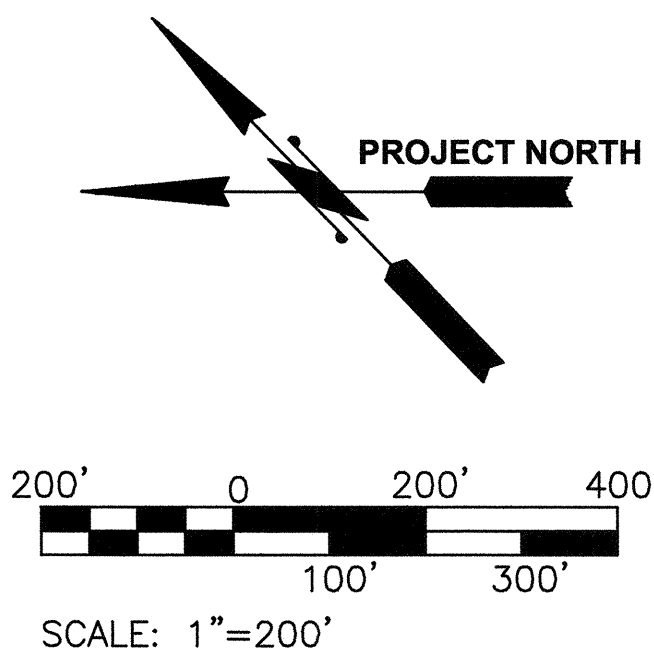
KEY NOTES

- HUSKY TERMINAL IS A RESTRICTED OPERATING TERMINAL. THE CONTRACTOR SHALL NOT INTERFERE WITH THE TERMINAL OPERATIONS.
- CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA.
- THE BLAIR WATERWAY IS AN ACTIVE SHIPPING CHANNEL THE CONTRACTOR SHALL NOT OBSTRUCT SHIPPING OPERATIONS TO AND FROM THE HUSKY TERMINAL, ANY OTHER TERMINAL, OR ANY OTHER VESSEL TRAFFIC IN THE WATERWAY.
- CONTRACTOR SHALL PROTECT-IN-PLACE EXISTING CONCRETE BARRIERS AND NOT IMPACT INCOMING TRUCK TRAFFIC.
- CONTRACTOR SHALL PROTECT-IN-PLACE EXISTING HIGH MAST LIGHT POLE, ROUTE CONSTRUCTION TRAFFIC SOUTH OF POLE AND NOT IMPACT INCOMING TERMINAL TRUCK TRAFFIC OR GATE OPERATION.
- CONTRACTOR SHALL DEMOLISH EASTERN MOST REEFER BUNKER ONLY AS REQUIRED FOR CONSTRUCTION TRAFFIC TURNING MOVEMENTS, SEE ELECTRICAL DEMOLITION PLANS.
- THE EXISTING ELECTRICAL SUBSTATION SHALL REMAIN IN OPERATION DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT THE SUBSTATION AND ALLOW ACCESS BY PORT MAINTENANCE AND OPERATIONS PERSONNEL.
- CONTRACTOR TO RELOCATE JERSEY BARRIER TO ACCOMMODATE TRUCK TURNING. ENGINEER TO CONFIRM RELOCATION PRIOR TO WORK.
- CONTRACTOR SHALL PROTECT IN PLACE THE EXISTING MARINE OPERATIONS BUILDING, ALL ASSOCIATED EQUIPMENT AND UTILITY LINES, SEE DEMOLITION PLAN E2.4.

NOTES

TABLE 1: TEMPORARY CONSTRUCTION FENCE COORDINATES (SEE NOTE 2)

#	NORTHING	EASTING
1	713403.72	1166514.37
2	713208.01	1166399.07
3	713131.23	1166529.52
4	713176.58	1166556.24
5	713140.69	1166617.16
6	713095.56	1166590.57
7	712633.63	1167381.52
8	712256.63	1167776.19
9	712253.43	1167829.88
10	712138.22	1167952.99
11	711983.44	1167828.29
12	711769.40	1167798.32
13	711659.55	1167773.56



APPROVED: *David J. Howard* SWK 2/6/2015
DIRECTOR ENG. DATE 2-6-15 MDK 2/6/2015
PRINTED BY: sstainer Feb 05, 2015
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
CONSTRAINTS AND ACCESS PLAN

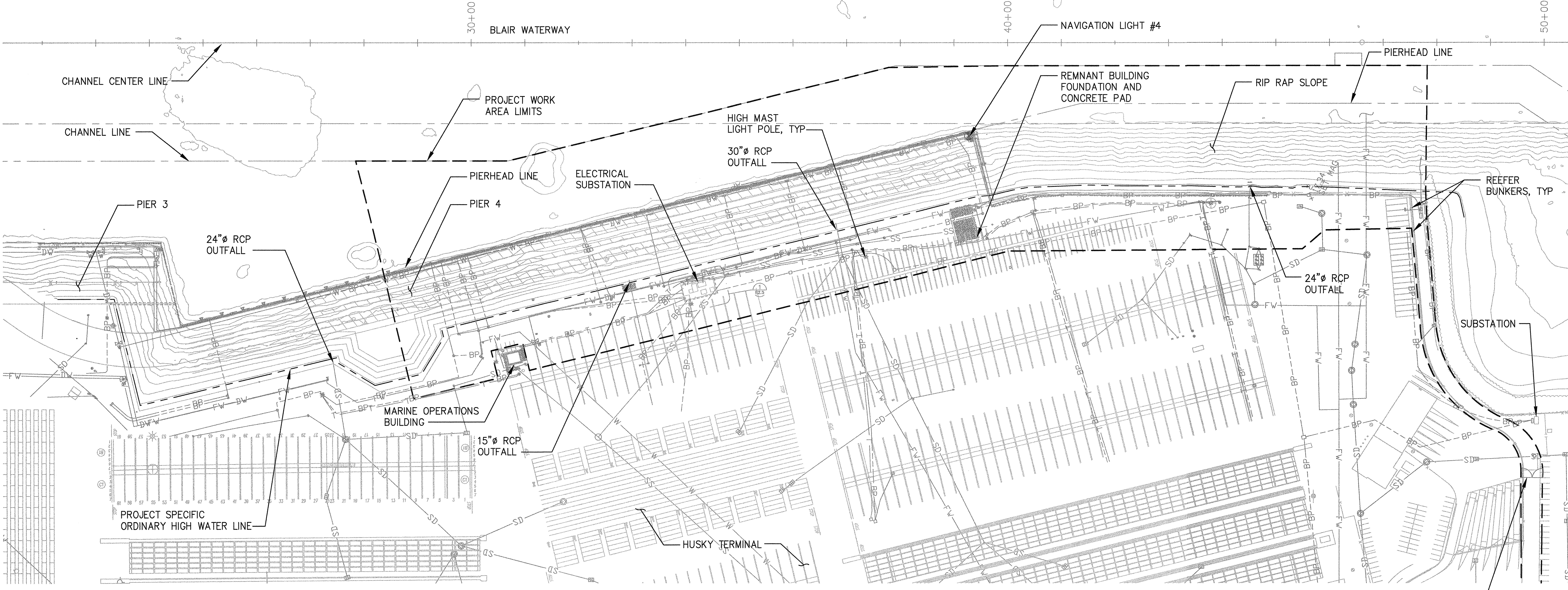
G6.1
SH 7 OF 54

CONT/CONS: 069982
M. ID: 091452
PHASE: BID

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253) 396-1841

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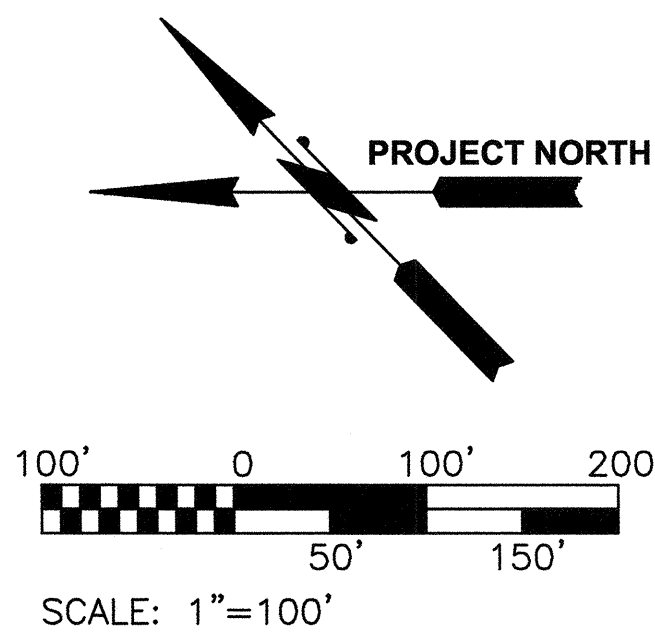


LEGEND

- PROJECT WORK AREA LIMITS
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE

EXISTING CONDITIONS PLAN

SCALE: 1"=100'

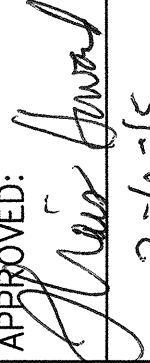


G7.1 SH 8 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT EXISTING CONDITIONS PLAN				APPROVED: <i>[Signature]</i> 2-6-15	SWK 2/6/2015
					CHECKED BY: MDK 2/6/2015	DATE
					DIRECTOR ENG. DATE: 2-6-15	MDK 2/6/2015
					PRINTED BY: sstahler Feb 05, 2015	DATE
CONT/CONS: 069982		TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	
M. ID: 091452		DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED		
PHASE: BID		PARCEL:				
 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (203) 388-3841						
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TESC NOTES:

1. APPROVAL OF THIS TEMPORARY EROSION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF PIPES, STRUCTURES, ETC.) OR THE CONTRACTOR MAINTAINED CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE CONTRACTOR SHALL COMPLY WITH, MAINTAIN, AND MODIFY AS NEEDED THE APPROVED CONSTRUCTION SWPPP IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE IMPLEMENTATION OF THESE TESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS ANTICIPATED FOR SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
5. ON-SITE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND SHALL BE MAINTAINED DURING AND AFTER EXCAVATION AND GRADING OPERATIONS TO THE APPROVAL OF THE PORT.
6. IF CONSTRUCTION OCCURS DURING DRY WEATHER PERIODS, DUST FROM CONSTRUCTION SHALL BE MINIMIZED THROUGH USE OF BEST MANAGEMENT PRACTICES (BMPS) OUTLINED IN THE SWPPP AND THE CITY'S STORMWATER MANUAL.
7. THE TESC FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE PORT DRAINAGE SYSTEM, THE BLAIR WATERWAY, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS
8. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION. DAILY INSPECTION REPORTS MUST BE REVIEWED BY THE CONTRACTOR, SIGNED AND MADE AVAILABLE TO THE PORT, CITY AND ANY OTHER ENVIRONMENTAL AUTHORITIES AT ALL TIMES. A COPY OF ALL INSPECTION RECORDS SHALL BE KEPT ON SITE.
9. ALL FACILITIES SHALL BE MAINTAINED ON SITE BY SWEEPING TO PREVENT DEBRIS, DUST AND MUD FROM ACCUMULATING ON THE PAVED SURFACES, BANK SLOPE, OR IN THE BLAIR WATERWAY, SITCUM WATERWAY, AND COMMENCEMENT BAY.
10. NON-COMPLIANCE WITH THE EROSION CONTROL AND WATER QUALITY REQUIREMENTS MAY RESULT IN A TEMPORARY STOP-WORK ORDER AT THE CONTRACTORS EXPENSE, UNTIL SAID EROSION CONTROL MEASURES ARE FUNCTIONAL.
11. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES OUTSIDE OF THE DESIGNATED PROJECT WORK AREA LIMITS OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM, ONTO THE BANK SLOPE, OR INTO THE BLAIR WATERWAY, SITCUM WATERWAY, AND COMMENCEMENT BAY.
12. DEWATERING ACTIVITIES SHALL BE PERFORMED IN A MANNER THAT ENSURES NO SILT-LADEN WATER ENTERS THE BLAIR WATERWAY, SITCUM WATERWAY, COMMENCEMENT BAY, OR STORM DRAINAGE SYSTEM.
13. ALL CATCH BASIN INLET PROTECTION INSTALLED SHALL BE REPLACED AND LEFT IN PLACE AT THE END OF CONSTRUCTION, AFTER FINAL INSPECTION AND ACCEPTANCE.
14. REMOVE SEDIMENT FROM THE STORM SYSTEM ONCE THE SITE IS PERMANENTLY STABILIZED. THE CLEANING AND REMOVAL OPERATION SHALL NOT FLUSH SEDIMENT DOWNSTREAM.
15. COORDINATE TESC PROVISION THAT ARE OUTSIDE OF THE PROJECT WORK AREA WITH THE ENGINEER AND PORT.
16. THE CONTRACTOR SHALL REMOVE MATERIAL AND/OR DEBRIS FROM VEHICLES EXITING THE PROJECT LIMITS, BUT NOT WASH THE DEBRIS INTO THE EXISTING STORM DRAINAGE SYSTEM.
17. IN ADDITION TO INLET PROTECTION SHOWN ON PLAN, CONTRACTOR SHALL INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING CATCH BASINS THAT ARE DISCOVERED IN FIELD WITHIN THE PROJECT WORK AREA LIMITS.
18. THE TEMPORARY FLOATING DEBRIS BOOM SHALL BE INSTALLED AT THE START OF WORK AND MAINTAINED, UPGRADED, REPAIRED OR REPLACED THE ENTIRE CONSTRUCTION PERIOD UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.

G8.1 SH 9 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TESC GENERAL NOTES				APPROVED:  2-6-15	SWK	2/6/2015
	CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DATE-HRZ: 19.39' @ Tide 22 1933 PARCEL:	DIRECTOR ENG. DATE PRINTED BY: kvang Feb 03, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MDK	2/6/2015	DATE	
			MARK:	REVISION:	BY:	APPR:	DATE:

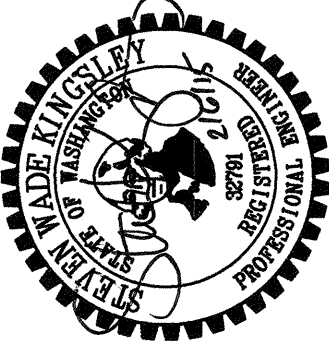


Port of Tacoma

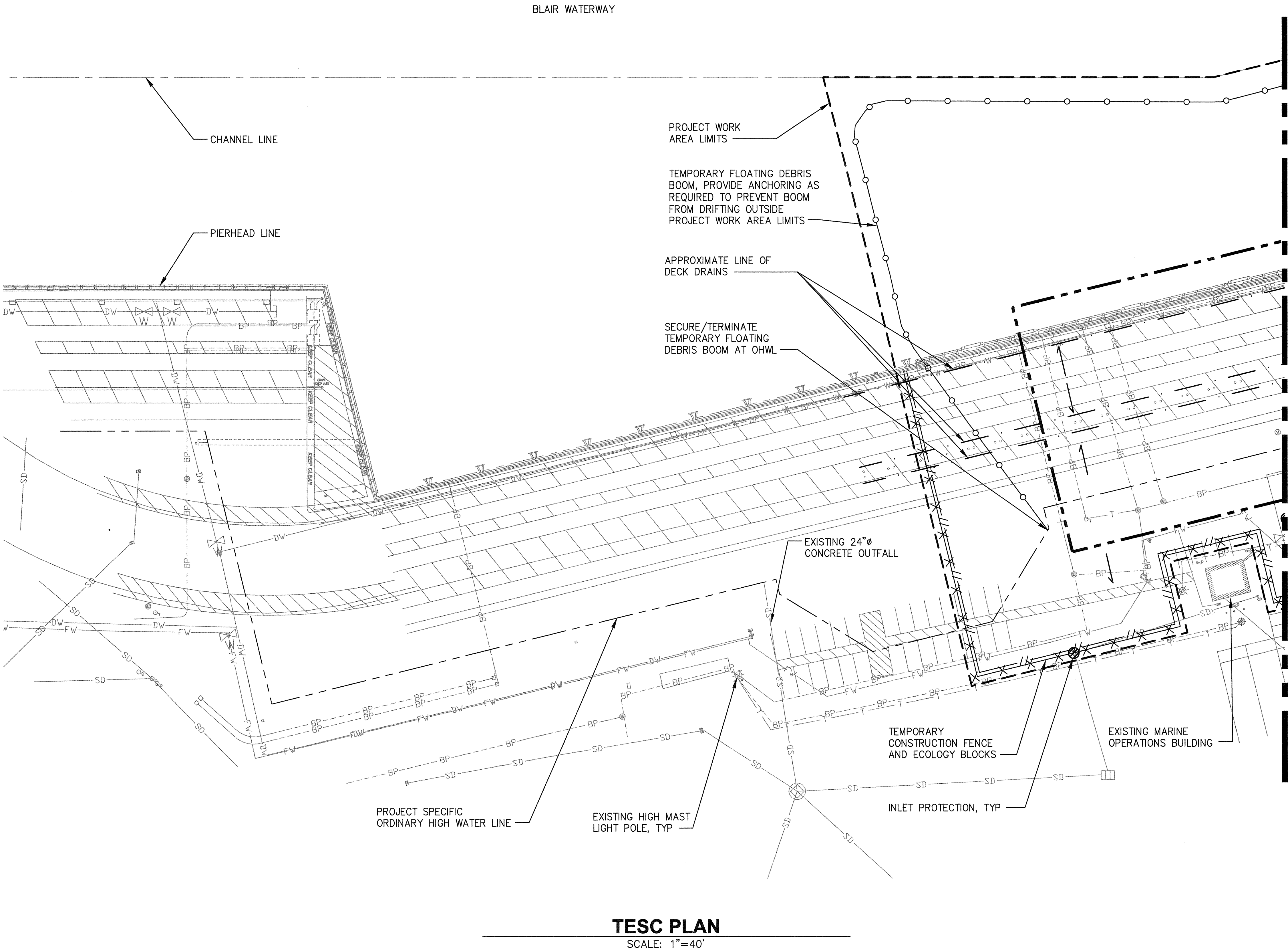
P.O. BOX 1887 TACOMA, WA 98401 (206)985-5861

kpff

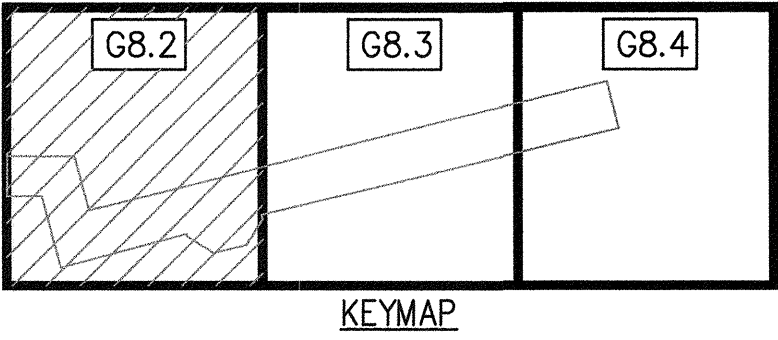
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TESC PLAN
SCALE: 1"=40'

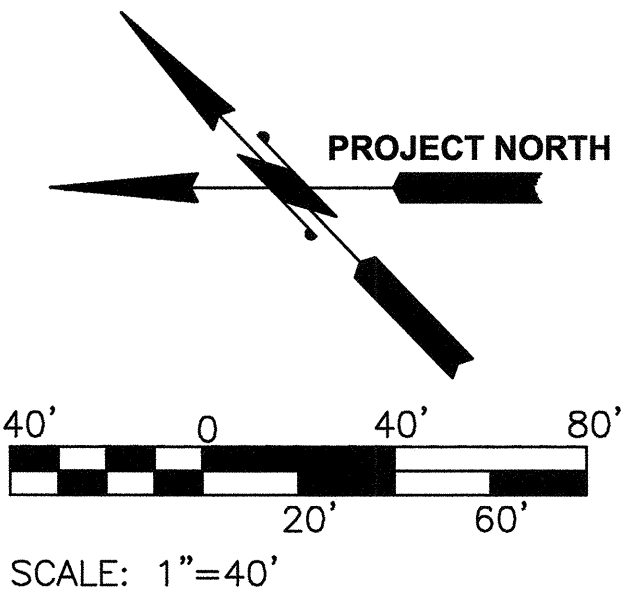


TESC NOTES

- SEE SHEET G8.1 FOR TESC NOTES.
- SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCK LOCATION.

LEGEND

- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCKS
- INLET PROTECTION, 3
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE
- APPROXIMATE LINE OF DECK DRAINS
- GENERAL DIRECTION OF SURFACE FLOW



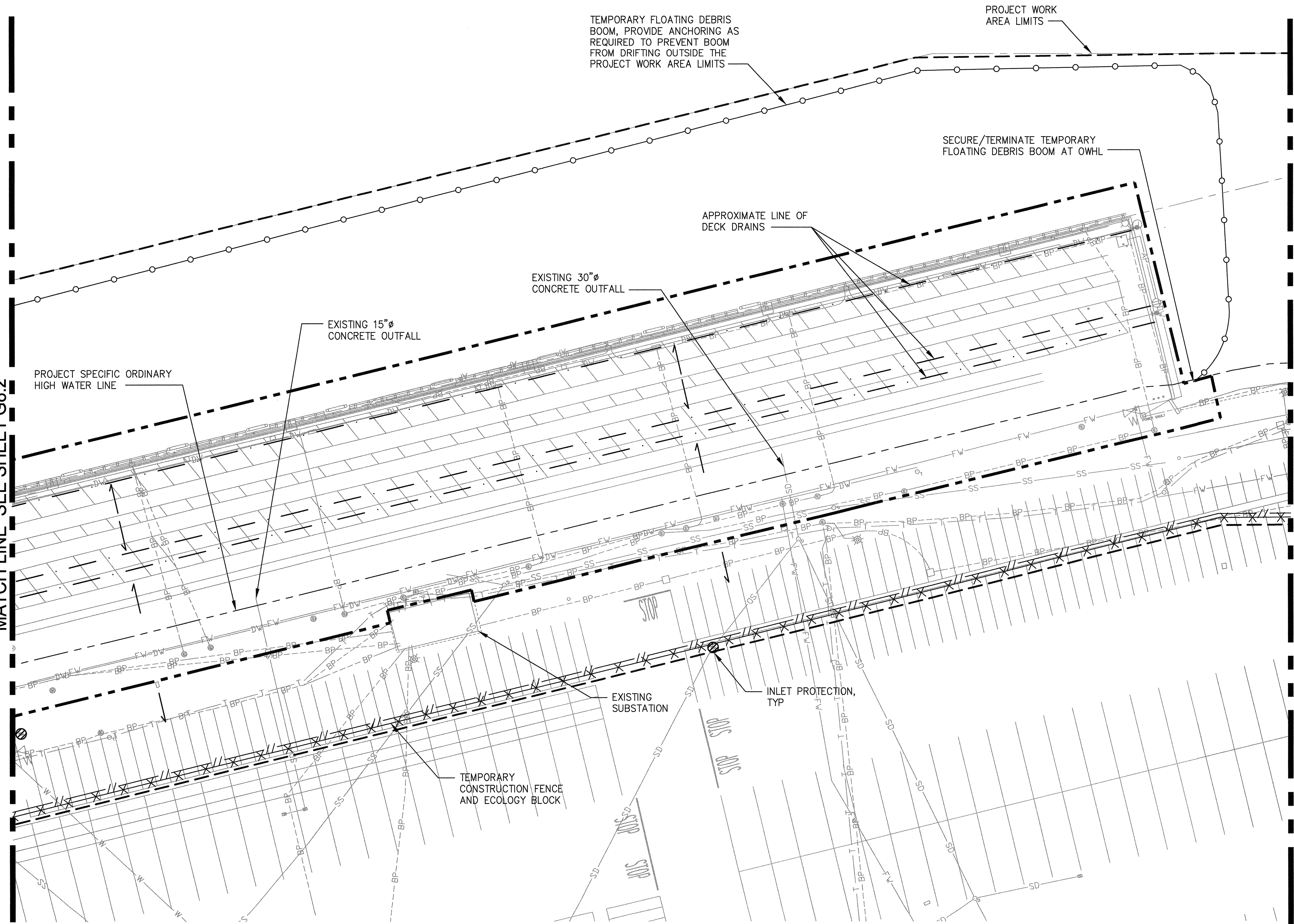
G8.2 SH 10 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TESC PLAN - SHEET 1				APPROVED: <i>[Signature]</i> 2-6-15	SWK 2/6/2015
	CONTRACT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DATE: 27 Feb 2015	DIRECTOR ENG. DATE: kvarg Feb 03, 2015 PRINTED BY: kvarg PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MDK 2/6/2015	CHECKED BY: DATE	DATE
		DAT-HRZ: WA83-SF PARCEL:	DRAWING SCALE: AS NOTED	MARK:	REVISION:	BY:
				APPR:	DATE:	

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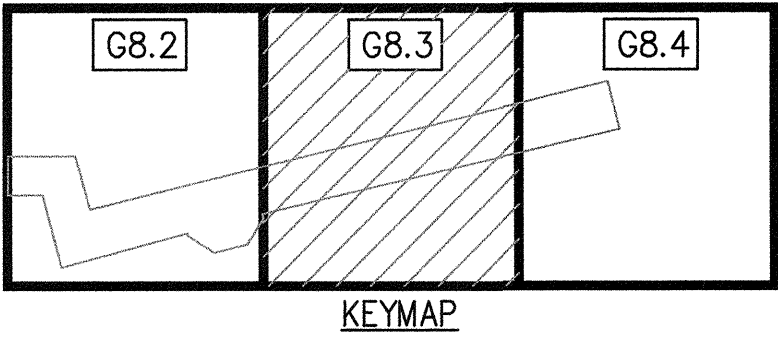
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MATCH LINE SEE SHEET G8.2

MATCH LINE SEE SHEET G8.4



TESC PLAN
SCALE: 1"=40'

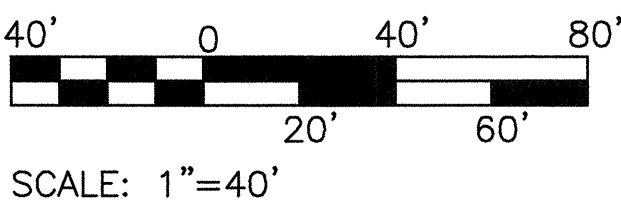
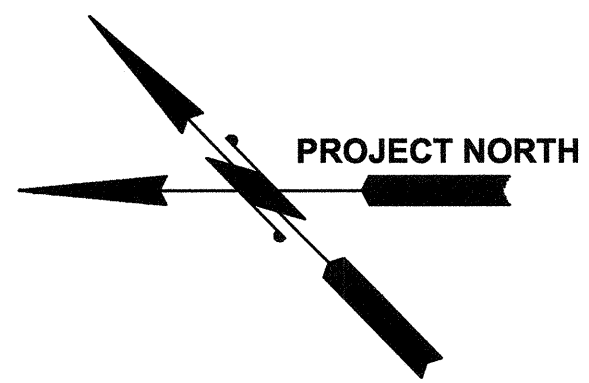


TESC NOTES

- SEE SHEET G8.1 FOR TESC NOTES.
- SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCK LOCATION.

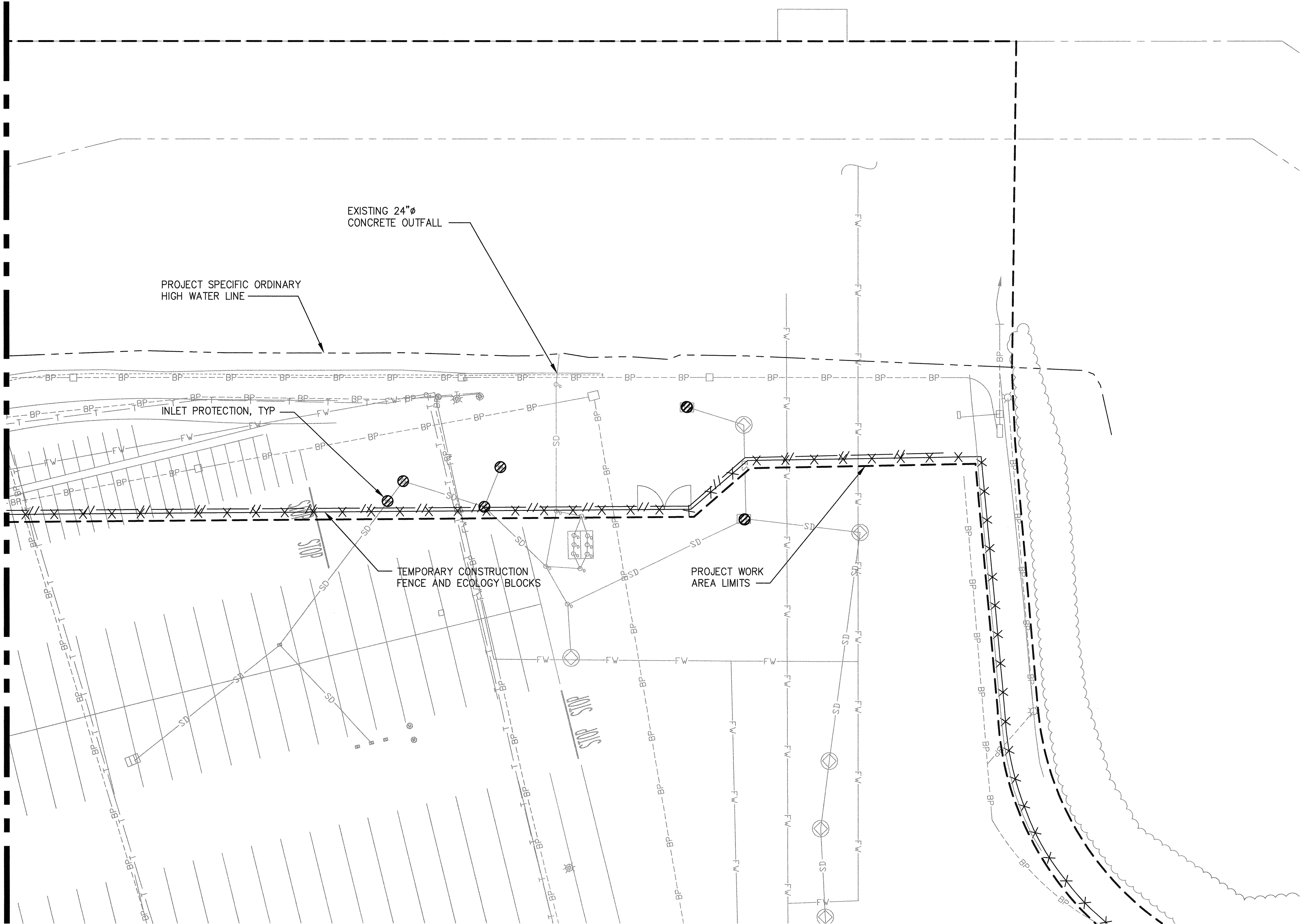
LEGEND

- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCKS
- INLET PROTECTION, TYP
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE
- APPROXIMATE LINE OF DECK DRAINS
- GENERAL DIRECTION OF SURFACE FLOW

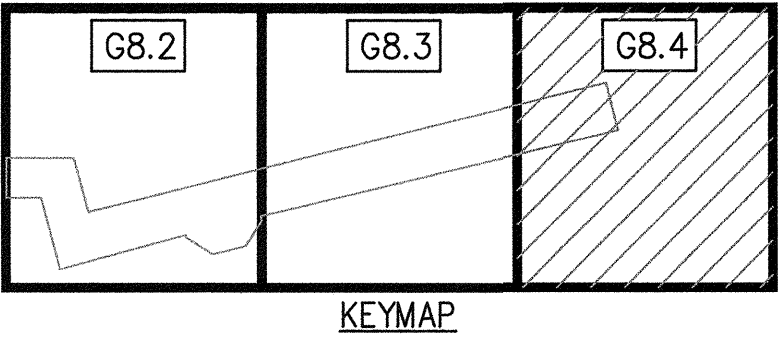


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	2/6/2015		2/6/2015	
	SWK	CHECKED BY	MDK	DATE
	2-6-15		2-6-15	
	DIRECTOR	ENG. DATE	PROJ. ENGR	DATE
PIER 4 PHASE 1 REMOVAL ACTION PROJECT TESC PLAN - SHEET 2	27		27	
	SECTION	3E	SECTION	3E
G8.3 SH 11 OF 54	21N		21N	
	TOWNSHIP	21N	TOWNSHIP	21N
CONT/CONS: 069982		M.L.W. 19.39' @ Tide 22 1933		
M. ID: 091452		DAT-HRZ: WA83-SF		
PHASE: BID		DRAWING SCALE: AS NOTED		
PARCEL:		TACOMA, WA 98401-1837		

MATCH LINE SEE SHEET G8.3

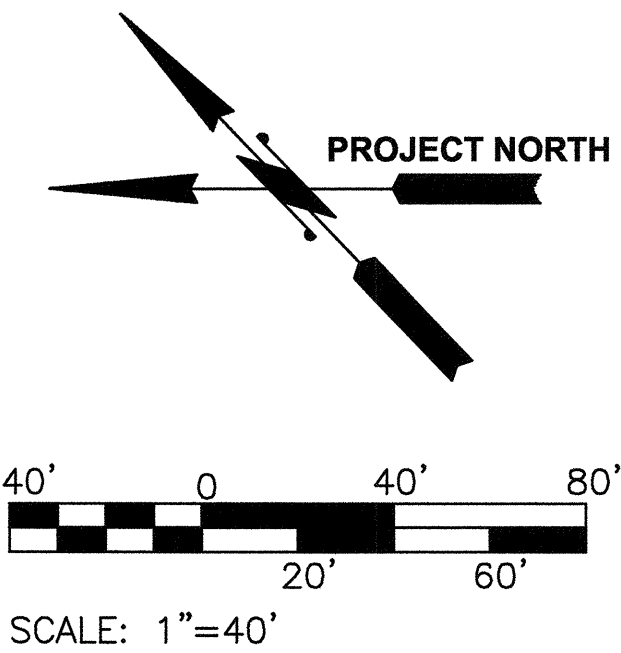


TESC PLAN
SCALE: 1"=40'



LEGEND

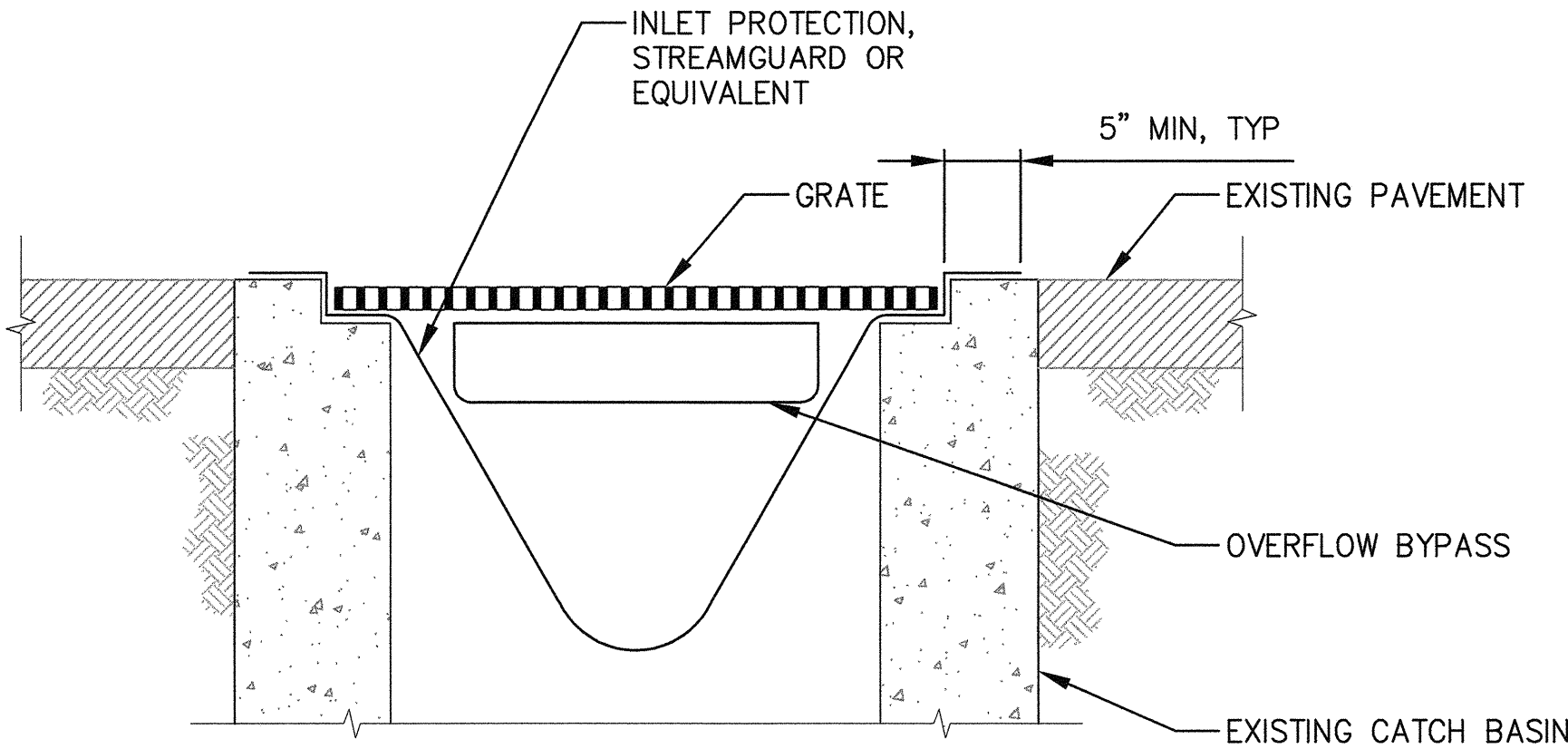
- PROJECT WORK AREA LIMITS
- - - DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- x x - TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCKS
- ⊗ INLET PROTECTION, (3) G8.5
- TEMPORARY FLOATING DEBRIS BOOM
- /// TEMPORARY SEDIMENT BARRIER
- - - PROJECT SPECIFIC ORDINARY HIGH WATER LINE
- . - APPROXIMATE LINE OF DECK DRAINS
- ↑ GENERAL DIRECTION OF SURFACE FLOW



TESC NOTES

1. SEE SHEET G8.1 FOR TESC NOTES.
2. SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE AND ECOLOGY BLOCK LOCATION.

G8.4 SH 12 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TESC PLAN - SHEET 3					kpff 2407 North 21st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	
	CONTRACT/CONS: 069982	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27			
	M. ID: 091452	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kvang Feb 03, 2015			
	PHASE: BID	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837			
APPROVED: <i>David J. Hines</i> DIRECTOR ENG. DATE: 2-6-15				SWK: 2/6/2015	CHECKED BY: DATE: 2/6/2015	MDK: 2/6/2015	PROJ. ENGR: DATE: 2/6/2015
MARK: REVISION: BY: DATE:				APPR: DATE:			

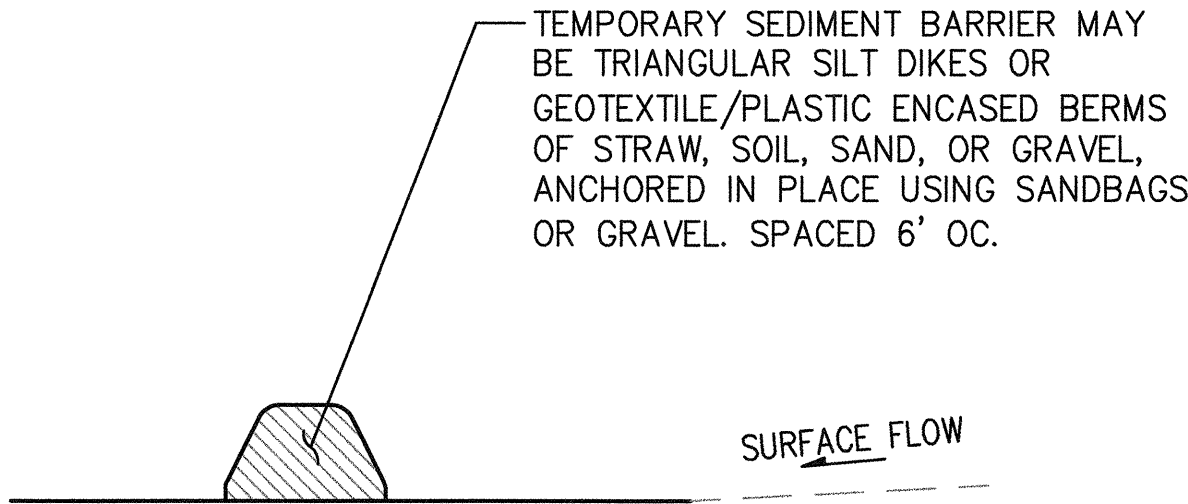


MAINTENANCE STANDARDS:

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED BY FLUSHING. ALL SEDIMENT MUST BE DISPOSED OF OFF-SITE.
2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY, OR AS DIRECTED BY THE ENGINEER.

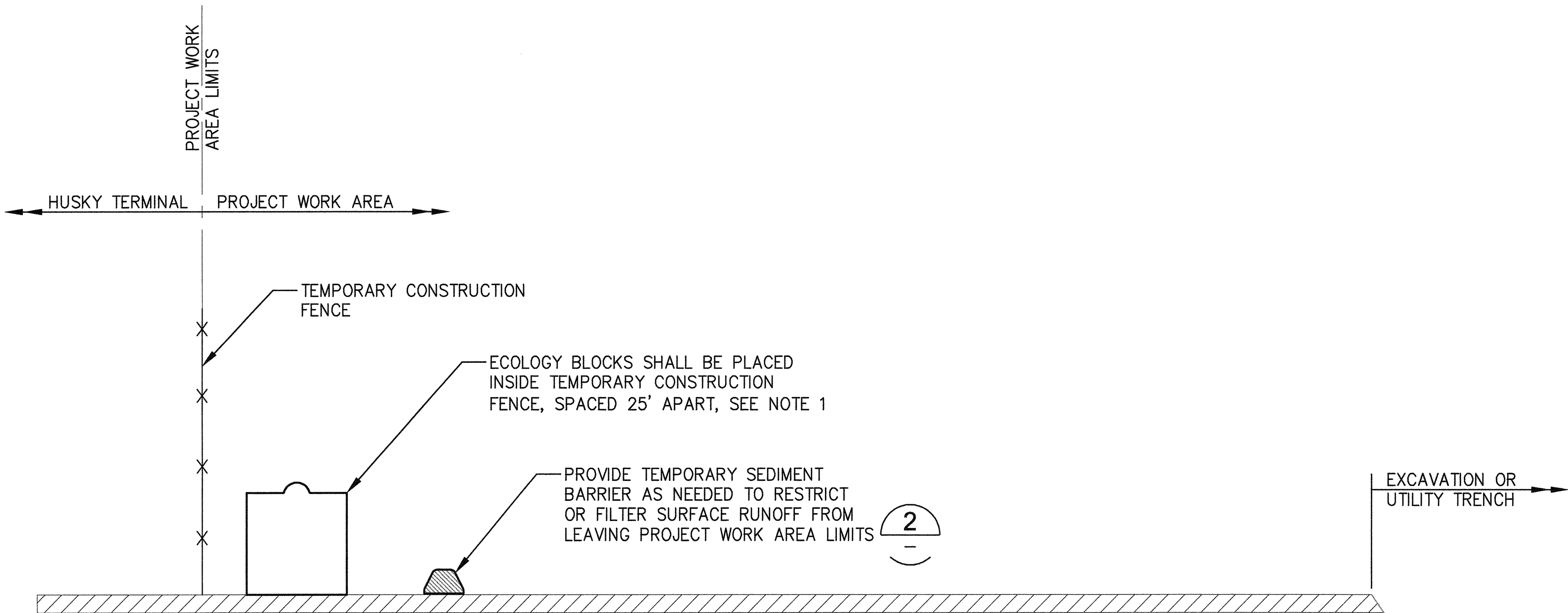
CATCH BASIN
INLET PROTECTION

G8.2, G8.3, G8.4 NTS



TEMPORARY
SEDIMENT BARRIER

G8.2, G8.3, G8.4 NTS

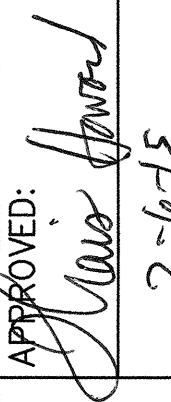
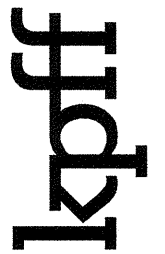


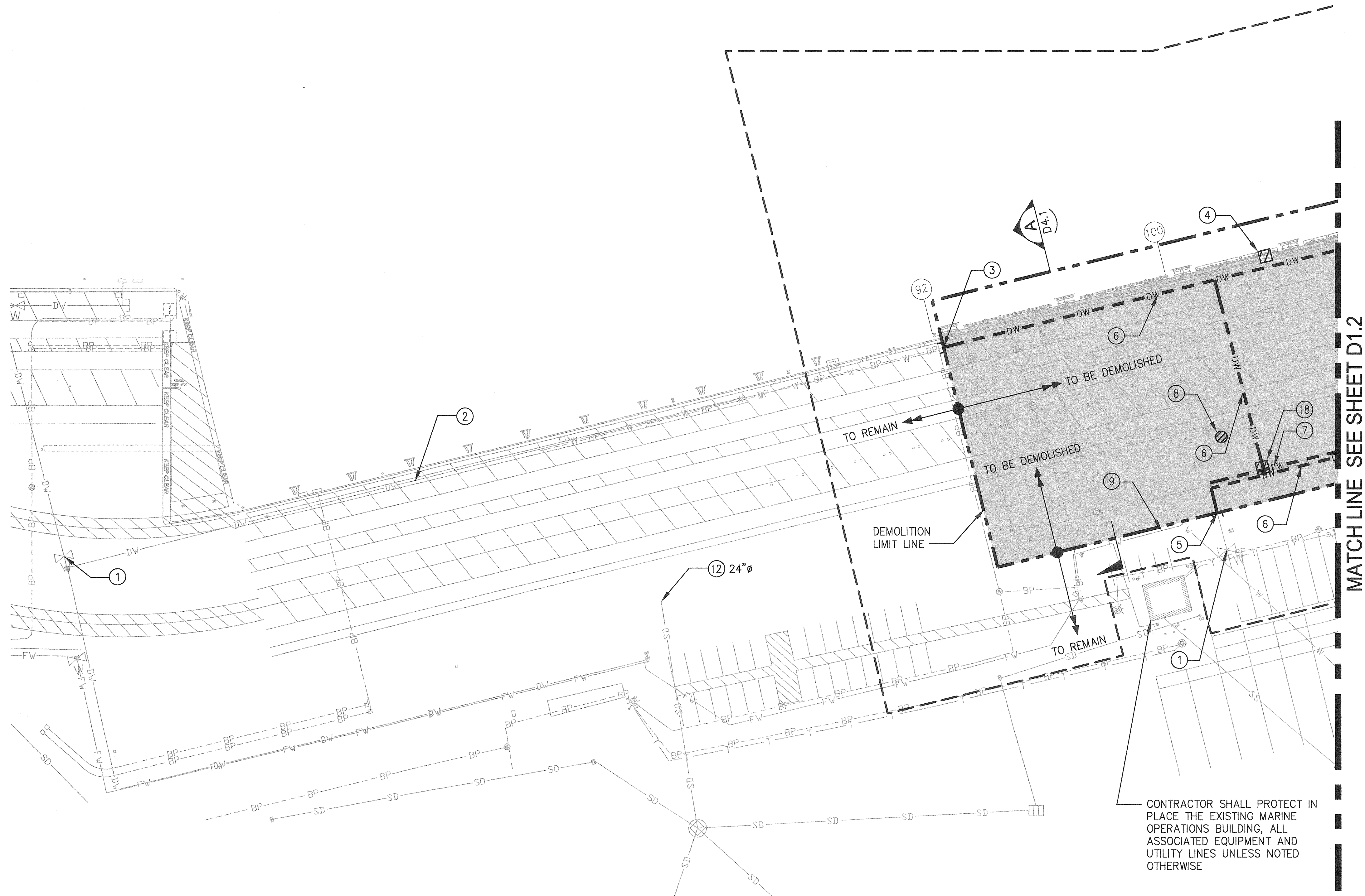
NOTES:

1. AFTER CONSTRUCTION IS COMPLETE, ECOLOGY BLOCKS ARE TO BE SALVAGED AND PLACED AT TOP OF THE DREDGE CUT BACK SLOPE, SEE SHEET C3.1, C3.2 AND

DETAIL- TYP
EXCAVATION SECTION

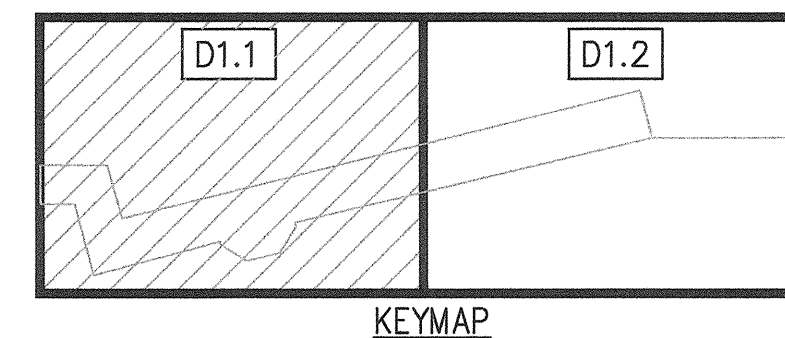
G8.2, G8.3, G8.4 NTS

G8.5 SH 13 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TESC DETAILS				APPROVED:  2-6-15 DIRECTOR ENG. DATE kvang Feb 03, 2015 PRINTED BY: PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	SWK 2/6/2015 CHECKED BY MDK 2/6/2015 PROJ. ENGR DATE		 2407 North 24th Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (203)355-9841	
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27						
	M. ID: 091452	DAT-HRZ: WA83-SF	VERT: MLW 19.39' @ Tide 22 1933						
	PHASE: BID	PARCEL:	DRAWING SCALE: AS NOTED						
	MARK:	REVISION:	BY:	APPR:					



UTILITY AND SITE DEMOLITION PLAN

SCALE: 1"=40'



A hand-drawn diagram showing a compass rose with four arrows pointing North, South, East, and West. The North arrow is labeled "PROJECT NORTH".

SCALE: 1"=40'

NOTES

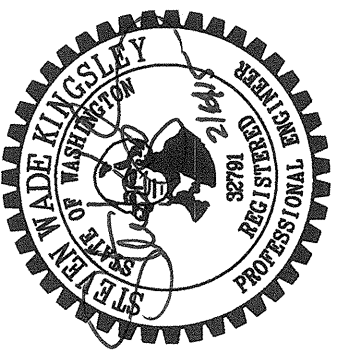
1. SEE PIER 4 DEMOLITION PLANS FOR STRUCTURE DEMOLITION REQUIREMENTS.
2. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
3. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS.

KEY NOTES

- ① PRIOR TO BEGINNING WATER DEMOLITION FIELD LOCATE AND CLOSE EXISTING GATE VALVES
- ② ABANDON EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE
- ③ CUT AND CAP EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE APPROXIMATELY 3.5' SOUTH OF BENT 92 PER DETAIL 2 ON SHEET D1.3
- ④ DEMOLISH EXISTING SHIP SERVICE PIPING, VALVES, METERS BACKFLOW PREVENTOR, STRAINER AND VAULT
- ⑤ CUT AND CAP EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE AT LIMITS OF DREDGE SLOPE PER DETAIL 2 ON SHEET D1.3
- ⑥ DEMOLISH EXISTING 4"Ø DOMESTIC WATER LINE
- ⑦ DEMOLISH EXISTING 12"Ø FIRE WATER LINE
- ⑧ DEMOLISH EXISTING GATE VALVE
- ⑨ PROTECT IN PLACE EXISTING FIRE WATER LINE
- ⑩ CUT AND CAP EXISTING 10"Ø OR 12"Ø PRESSURIZED FIRE WATER LINE PER DETAIL 2 ON SHEET D1.3
- ⑪ DEMOLISH CONCRETE OUTFALL STRUCTURE PER DETAIL 1/D1.3, CUT AND STABILIZE EXISTING CONC OUTFALL PIPE AT DREDGE CUT BACK SLOPE
- ⑫ PROTECT IN PLACE EXISTING CONCRETE OUTFALL PIPE AND STRUCTURE
- ⑬ DEMOLISH EXISTING SANITARY SEWER MANHOLE AND BACKFILL VOID
- ⑭ DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE
- ⑮ CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE AT DREDGE CUT BACK SLOPE, PER DETAIL 2 ON SHEET D1.3
- ⑯ CUT AND CAP 6" FIRE HYDRANT LATERAL. ABANDON FIRE HYDRANT AND VAULT
- ⑰ DEMOLISH AND SALVAGE FOR RELOCATION THE EXISTING NAVIGATION LIGHT, SEE NAVIGATION LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS
- ⑱ DEMOLISH EXISTING WATER VAULT AND APPURTENANCES
- ⑲ DEMOLISH EXISTING WATER SYSTEM HOTBOX AND ASSOCIATED EQUIPMENT

LEGEND

- | | |
|---|---|
|  | DEMOLISH AND REMOVE EXISTING UTILITY, UTILITY TYPE INDICATED ON PLANS |
|  | DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES |
|  | DEMOLISH ASPHALT PAVING |
|  | CUT AND CAP EXISTING UTILITY, 2
D1.3 |
|  | DEMOLITION LIMIT LINE |
|  | PROJECT WORK AREA LIMITS |



APPROVED	SWK	2/6/2015
<i>Handwritten Signature</i>	CHECKED BY	DATE
<u>2-6-15</u>	MDK	2/6/2015
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PRINTED BY: kvang	Feb 03, 2015	
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TACOMA, WA 98401-1837		

**PIER 4 PHASE 1
REMOVAL ACTION PROJECT
UTILITY AND SITE DEMOLITION PLAN - SHEET 1**

D1.1
SH 14 OF 54

CONT/CONS: 069982
M. ID: 091452
PHASE: BID

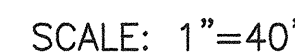


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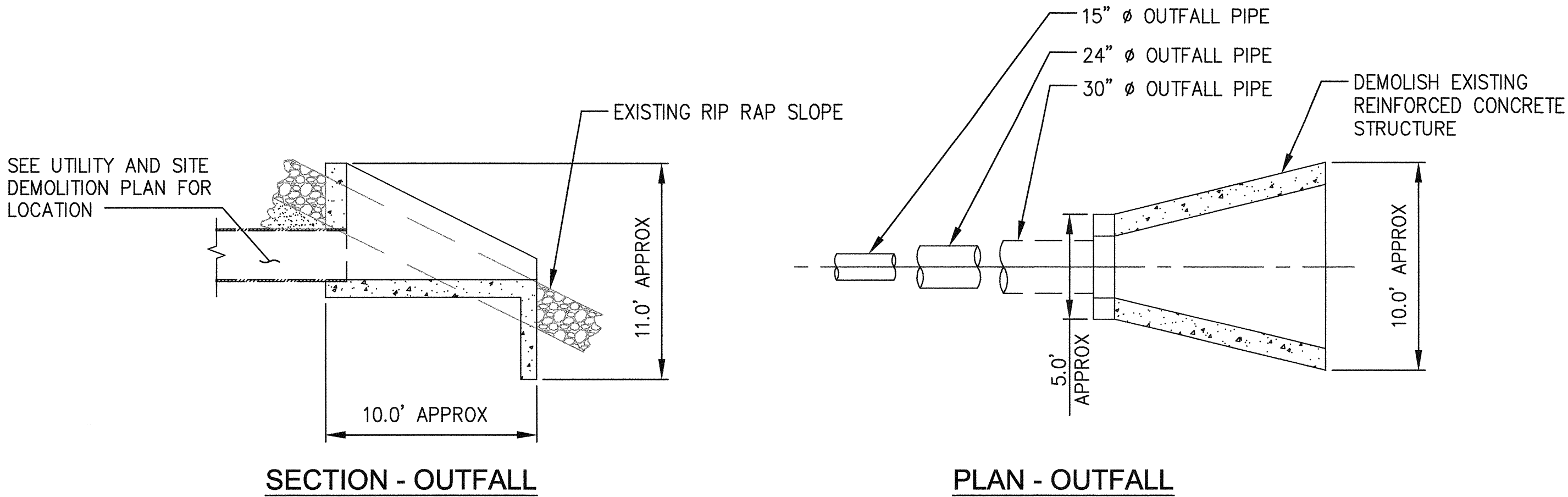
1. SEE PIER 4 DEMOLITION PLANS FOR STRUCTURE DEMOLITION REQUIREMENTS.
2. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
3. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS.

- ① PRIOR TO BEGINNING WATER LINE DEMOLITION FIELD LOCATE AND CLOSE EXISTING GATE VALVES
- ② ABANDON EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE
- ③ CUT AND CAP EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE APPROXIMATELY 3.5' SOUTH OF BENT 92 PER DETAIL 2 ON SHEET D1.3
- ④ DEMOLISH EXISTING SHIP SERVICE PIPING, VALVES, METERS BACKFLOW PREVENTOR, STRAINER AND VAULT
- ⑤ CUT AND CAP EXISTING 4"Ø PRESSURIZED DOMESTIC WATER LINE AT LIMITS OF DREDGE SLOPE PER DETAIL 2 ON SHEET D1.3
- ⑥ DEMOLISH EXISTING 4"Ø DOMESTIC WATER LINE
- ⑦ DEMOLISH EXISTING 12"Ø FIRE WATER LINE
- ⑧ DEMOLISH EXISTING GATE VALVE
- ⑨ PROTECT IN PLACE EXISTING FIRE WATER LINE
- ⑩ CUT AND CAP EXISTING 10"Ø OR 12"Ø PRESSURIZED FIRE WATER LINE PER DETAIL 2 ON SHEET D1.3
- ⑪ DEMOLISH CONCRETE OUTFALL STRUCTURE PER DETAIL 1/D1.3, CUT AND STABILIZE EXISTING CONC OUTFALL PIPE AT DREDGE CUT BACK SLOPE
- ⑫ PROTECT IN PLACE EXISTING CONCRETE OUTFALL PIPE AND STRUCTURE
- ⑬ DEMOLISH EXISTING SANITARY SEWER MANHOLE AND BACKFILL VOID
- ⑭ DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE
- ⑮ CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE AT DREDGE CUT BACK SLOPE, PER DETAIL 2 ON SHEET D1.3
- ⑯ CUT AND CAP 6" FIRE HYDRANT LATERAL. ABANDON FIRE HYDRANT AND VAULT.
- ⑰ DEMOLISH AND SALVAGE FOR RELOCATION THE EXISTING NAVIGATION LIGHT, SEE NAVIGATION LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS
- ⑱ DEMOLISH EXISTING WATER VAULT AND APPURTENANCES
- ⑲ DEMOLISH EXISTING WATER SYSTEM HOTBOX AND ASSOCIATED EQUIPMENT

	DEMOLISH AND REMOVE EXISTING UTILITY, UTILITY TYPE INDICATED ON PLANS
	DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
	DEMOLISH ASPHALT PAVING
	CUT AND CAP EXISTING UTILITY,
	DEMOLITION LIMIT LINE
	PROJECT WORK AREA LIMITS

 2
 D1.3

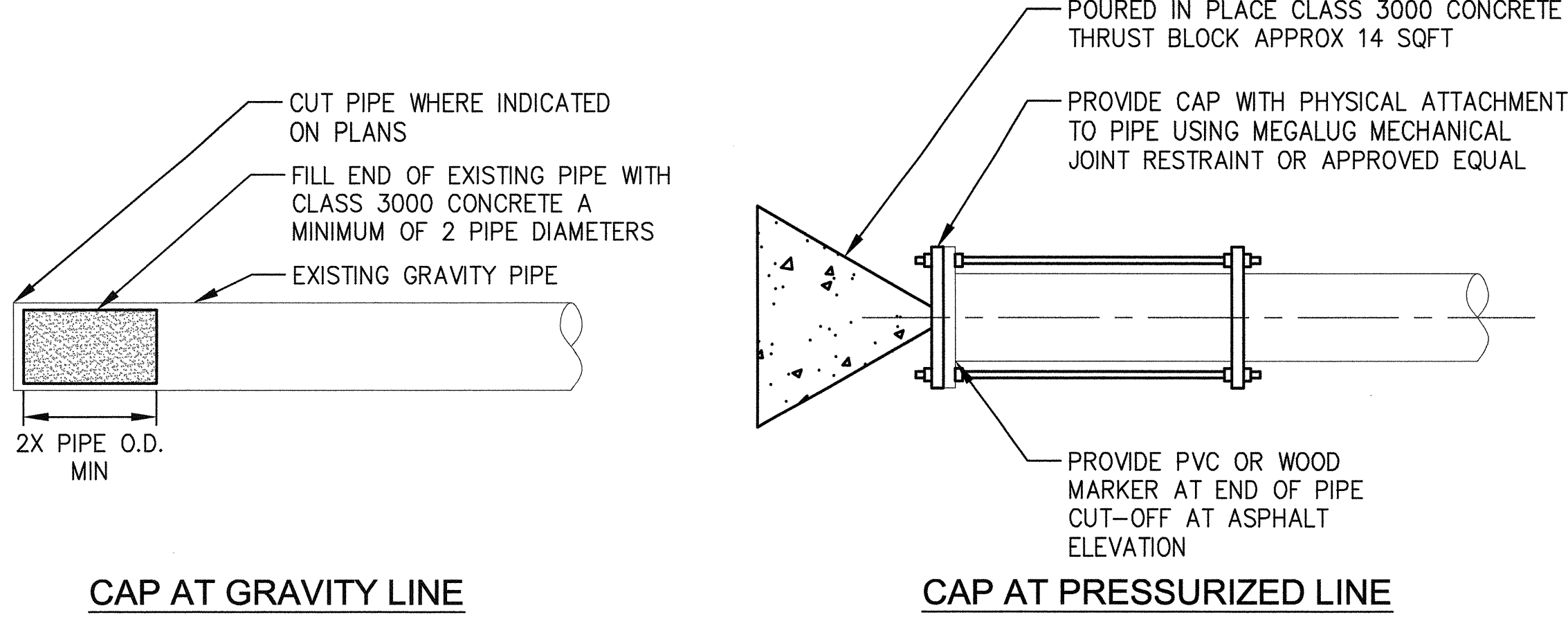
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- NOTES:
1. ALL DIMENSIONS PROVIDED FOR REFERENCE ONLY.
 2. COMPLETELY DEMOLISH OUTFALL PIPING AND REINFORCED CONCRETE WING WALLS
 3. AFTER DEMOLITION IS COMPLETE STABILIZE OUTFALL PIPE AT DREDGE CUTBACK SLOPE

1 OUTFALL DEMOLITION DETAIL

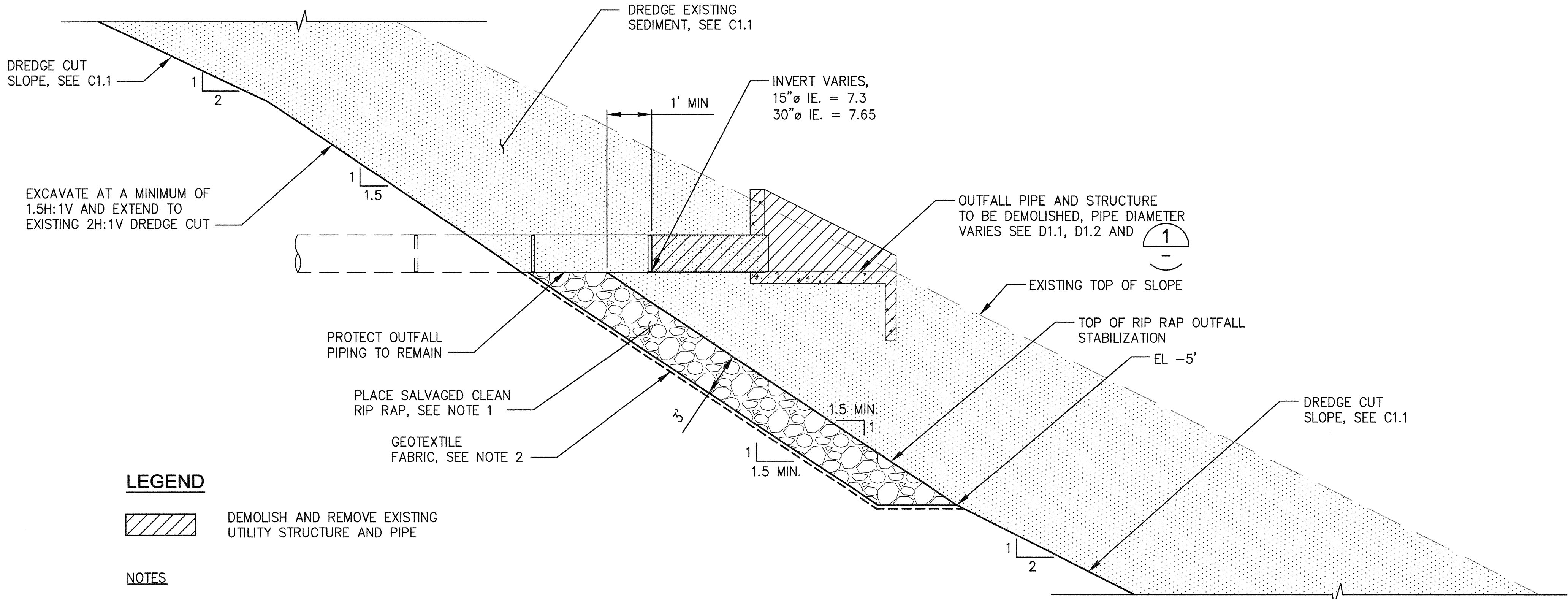
D1.1, D1.2 NTS



- NOTES
1. THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND OR COMPACTED SELECT BACKFILL.
 2. THRUST BLOCK AREA SHALL BE CENTERED ON PIPE.
 3. CLASS 3000 CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI.
 4. EXISTING PIPE TYPES VARY, CONTRACTOR TO FIELD VERIFY PRIOR TO BEGINNING DEMOLITIONS

2 CUT AND CAP DETAIL

D1.1, D1.2 NTS



- LEGEND**
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND PIPE

- NOTES
1. SALVAGED CLEAN RIP RAP SHALL BE PLACED AT A MINIMUM SLOPE OF 1.5H:1V WITH A MINIMUM THICKNESS OF 3FT. RIP RAP SHALL EXTEND FROM THE PIPE INVERT DOWN TO ELEVATION -5' MLLW WITH A MINIMUM APRON WIDTH OF THE PIPE O.D. + 6FT. REMOVE EXISTING CLEAN SEDIMENT AS REQUIRED TO PLACE GEOTEXTILE AND RIP RAP
 2. GEOTEXTILE FABRIC SHALL BE MIRAFI FW404 OR APPROVED EQUAL AND INSTALLED PER MANUFACTURERS RECOMMENDATION

3 EXISTING OUTFALL STABILIZATION DETAIL

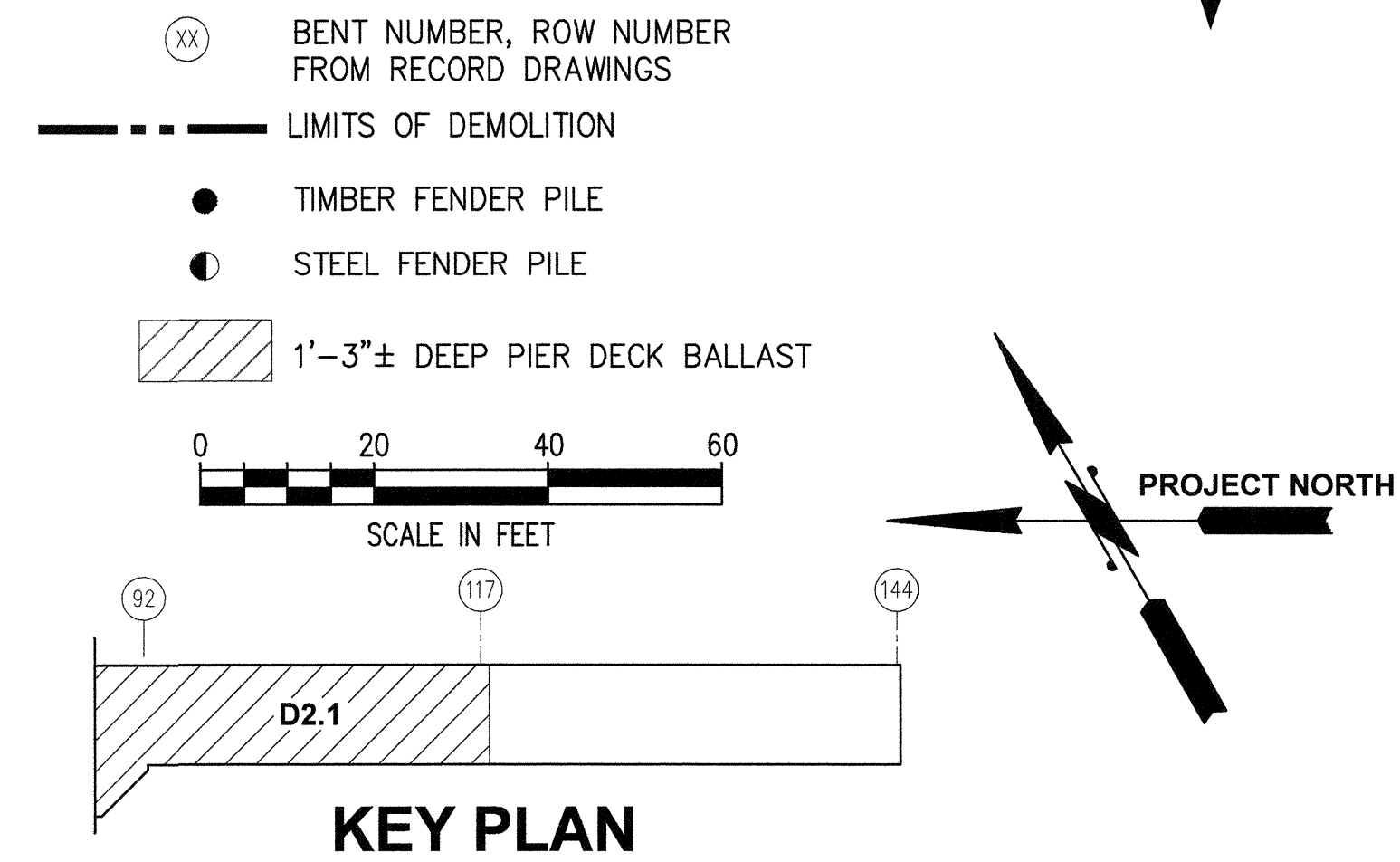
D1.1, D1.2 NTS

Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax: (253) 396-0152	kpff		SWK	2/6/2015	CHECKED BY	DATE
			MDK	2/6/2015	PROJ. ENGR	DATE
APPROVED: <i>[Signature]</i> DIRECTOR			2-6-15	DATE	entelisen Feb 05, 2015	PRINTED BY:
PIER 4 PHASE 1 REMOVAL ACTION PROJECT UTILITY AND SITE DEMOLITION DETAILS			PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
D1.3 SH 16 OF 54	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
	CONT/CONS:	069982	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
	M. ID:	091452	DRAWING SCALE: AS NOTED			
	PHASE:	BID	PARCEL:			



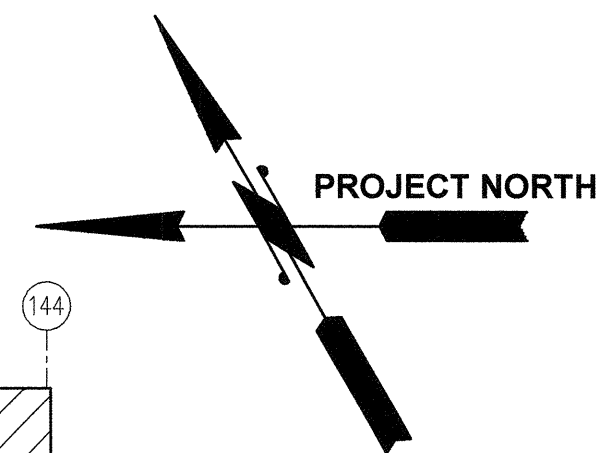
1. SEE ELECTRICAL DEMOLITION PLANS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD. SEE SPECIFICATIONS.
3. DEMOLISH AND REMOVE EVERYTHING WITHIN DEMOLITION LIMITS SHOWN, INCLUDING BUT NOT LIMITED TO EXISTING PAVING, BALLAST, DECK PANELS, PILE CAPS, FENDERS, BOLLARDS, CRANE RAIL, AND CONCRETE STRUCTURE, UNLESS NOTED OTHERWISE.

PIER DEMOLITION PLAN



D2.1 SH 17 OF 54		PIER 4 PHASE 1 REMOVAL ACTION PROJECT PIER DEMOLITION PLAN - SHEET 1				APPROVED: <i>[Signature]</i> 2-6-15		SEK CHECKED BY DATE		2/6/15 DATE		TAH 2/6/15		PROJ. ENGR DATE		2/6/15 DATE		2-6-15	
CON/CONS: 069982 M. ID: 091452 PHASE: BID		TOWNSHIP: 21N RANGE: 3E SECTION: 27		DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933		DRAWING SCALE: AS NOTED		DIRECTOR ENG. DATE		PRINTED BY: dmumma Feb 03, 2015		PORT ADDRESS: ONE SITCUM PLAZA		TACOMA, WA 98401-1837		2-6-15			

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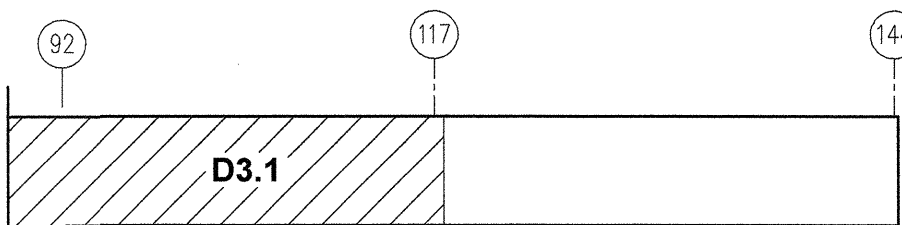
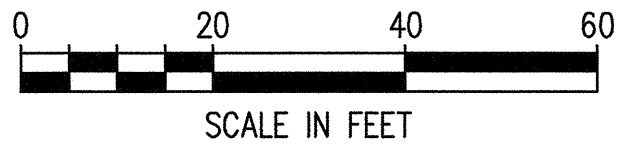
1. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN, INCLUDING PILE LENGTHS, WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD. SEE SPECIFICATIONS.
2. ALL PILES WITHIN THE DEMOLITION LIMITS SHALL BE REMOVED FOR THEIR FULL LENGTH AND DISPOSED OF PER THE SPECIFICATIONS.
3. EXTRACTION OF ALL PILES OTHER THAN BULKHEAD PILES IS SUBJECT TO THE TIMING RESTRICTIONS INDICATED IN THE SPECIFICATIONS.
4. EXTRACTION OF BULKHEAD PILES MAY OCCUR AT ANY TIME DURING THE CONTRACT.

PILE EXTRACTION PLAN

$$1'' = 20' - 0''$$

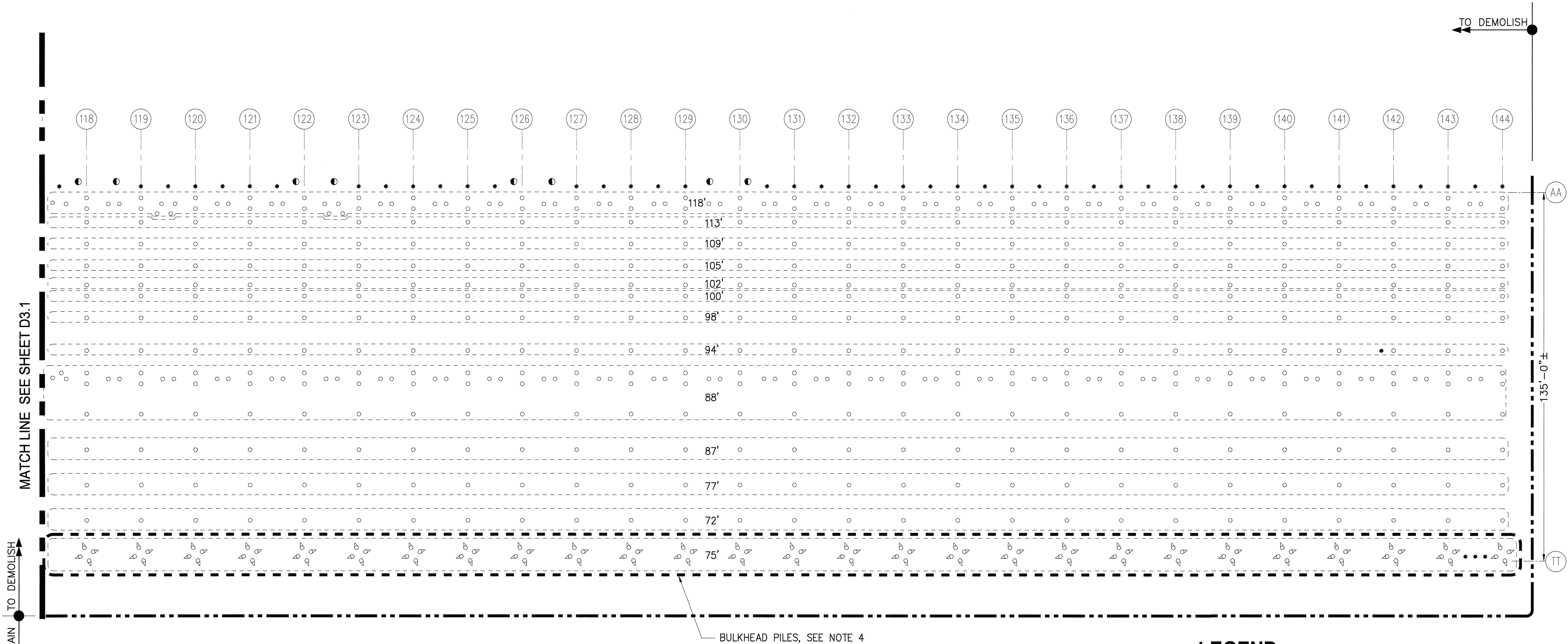
LEGEND:

- LIMITS OF DEMOLITION**
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED
CONCRETE PILE - PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED
CONCRETE PILE - BATTERED
- TIMBER FENDER PILE, APPROX 88' LONG
- STEEL FENDER PILE, APPROX 100' LONG
- APPROX CONC PILE LENGTH, EACH PILE.
SEE NOTE 2



KEY PLAN

D3.1 SH 19 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT PILE EXTRACTION PLAN - SHEET 1				APPROVED: <i>John Howard</i> 2-6-15	SEK CHECKED BY DATE	2/6/15
	DIRECTOR ENG. DATE		TAH PROJ. ENGR	DATE	2/6/15		
	PRINTED BY: dmumma Feb 03, 2015		PORT ADDRESS: ONE SITCUM PLAZA				
	TACOMA, WA 98401-1837						
CONTRACT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27	DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED				



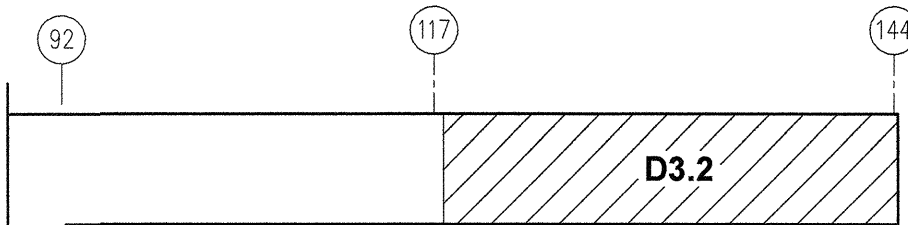
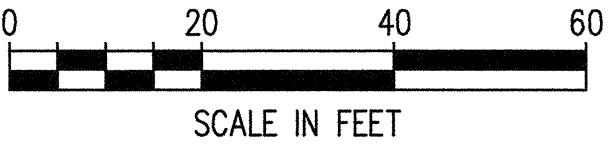
PILE EXTRACTION NOTES:

1. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN, INCLUDING PILE LENGTHS, WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD. SEE SPECIFICATIONS.
2. ALL PILES WITHIN THE DEMOLITION LIMITS SHALL BE REMOVED FOR THEIR FULL LENGTH AND DISPOSED OF PER THE SPECIFICATIONS.
3. EXTRACTION OF ALL PILES OTHER THAN BULKHEAD PILES IS SUBJECT TO THE TIMING RESTRICTIONS INDICATED IN THE SPECIFICATIONS.
4. EXTRACTION OF BULKHEAD PILES MAY OCCUR AT ANY TIME DURING THE CONTRACT.

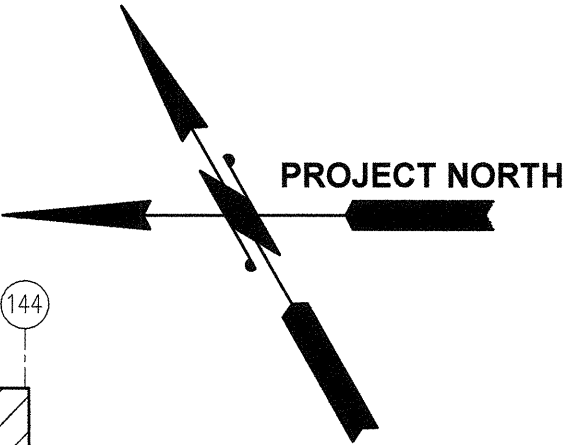
1 PILE EXTRACTION PLAN 1" = 20'-0"

LEGEND:

- LIMITS OF DEMOLITION
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE - PLUMB
- ◊ 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE - BATTERED
- TIMBER FENDER PILE, APPROX 88' LONG
- ◐ STEEL FENDER PILE, APPROX 100' LONG
- 118' APPROX CONC PILE LENGTH, EACH PILE. SEE NOTE 2

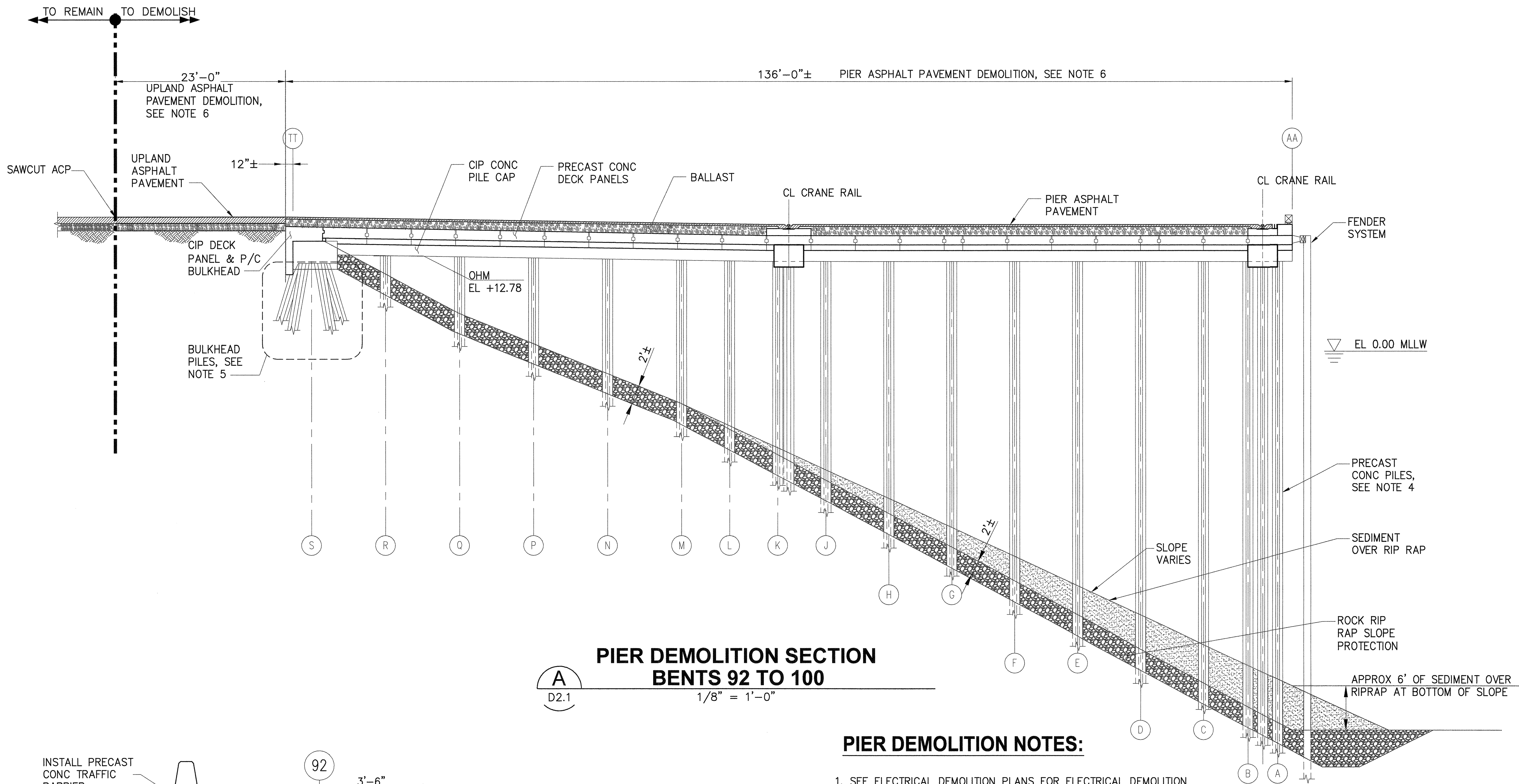


KEY PLAN



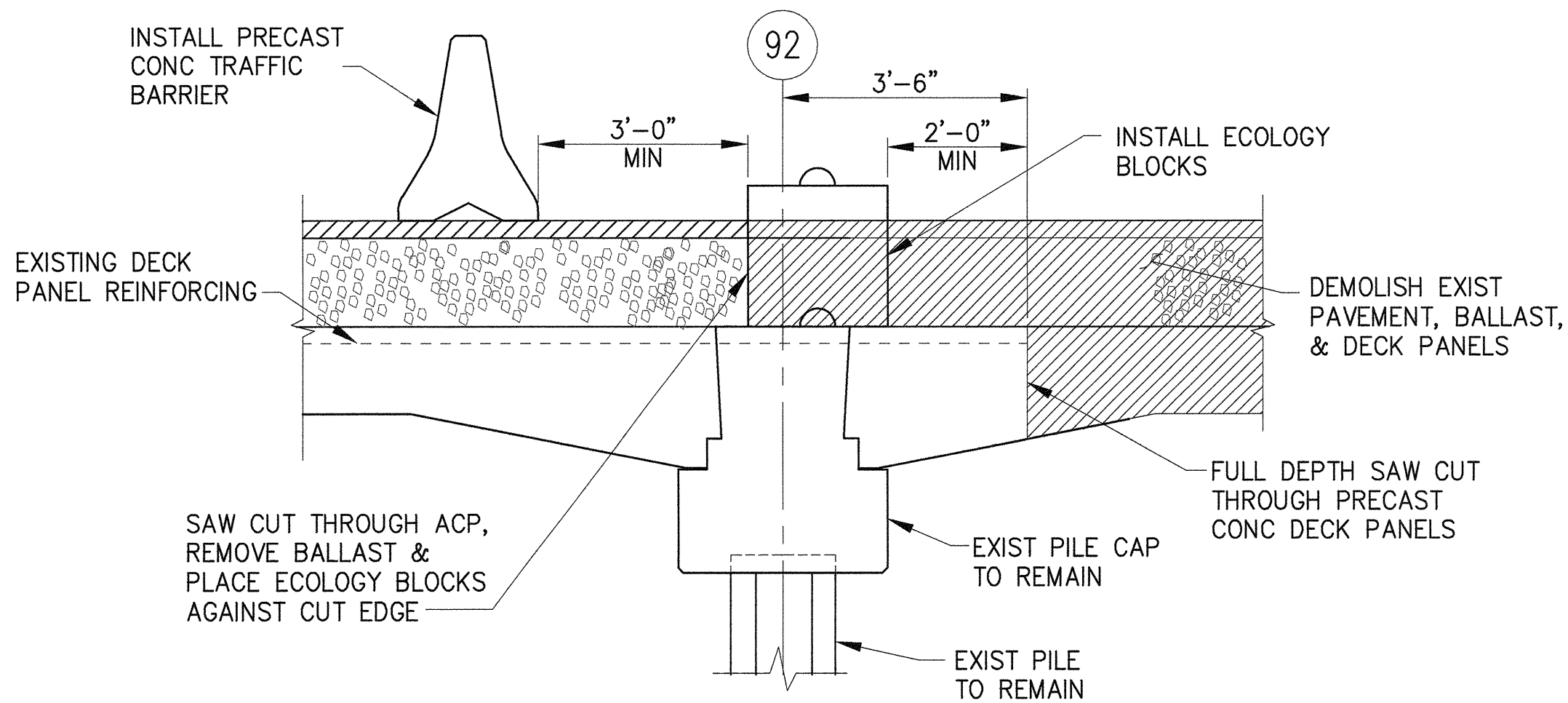
D3.2 SH 20 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT PILE EXTRACTION PLAN - SHEET 2				APPROVED: <i>[Signature]</i> 2-6-15	SEK CHECKED BY TAH	2/6/15 DATE 2/6/15 DATE
	CONT/CONS: 069982	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE	drumma Feb 03, 2015	PROJ. ENGR DATE
	M. ID: 091452	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY:	PORT ADDRESS: ONE SITCUM PLAZA		
	PHASE: BID	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837			
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**PIER DEMOLITION SECTION
BENTS 92 TO 100**

1/8" = 1'-0"

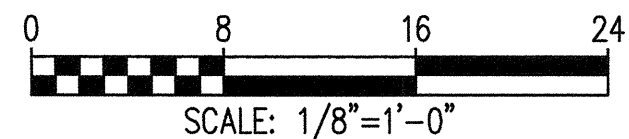


PIER DECK DEMOLITION PLAN

1/2" = 1'-0"

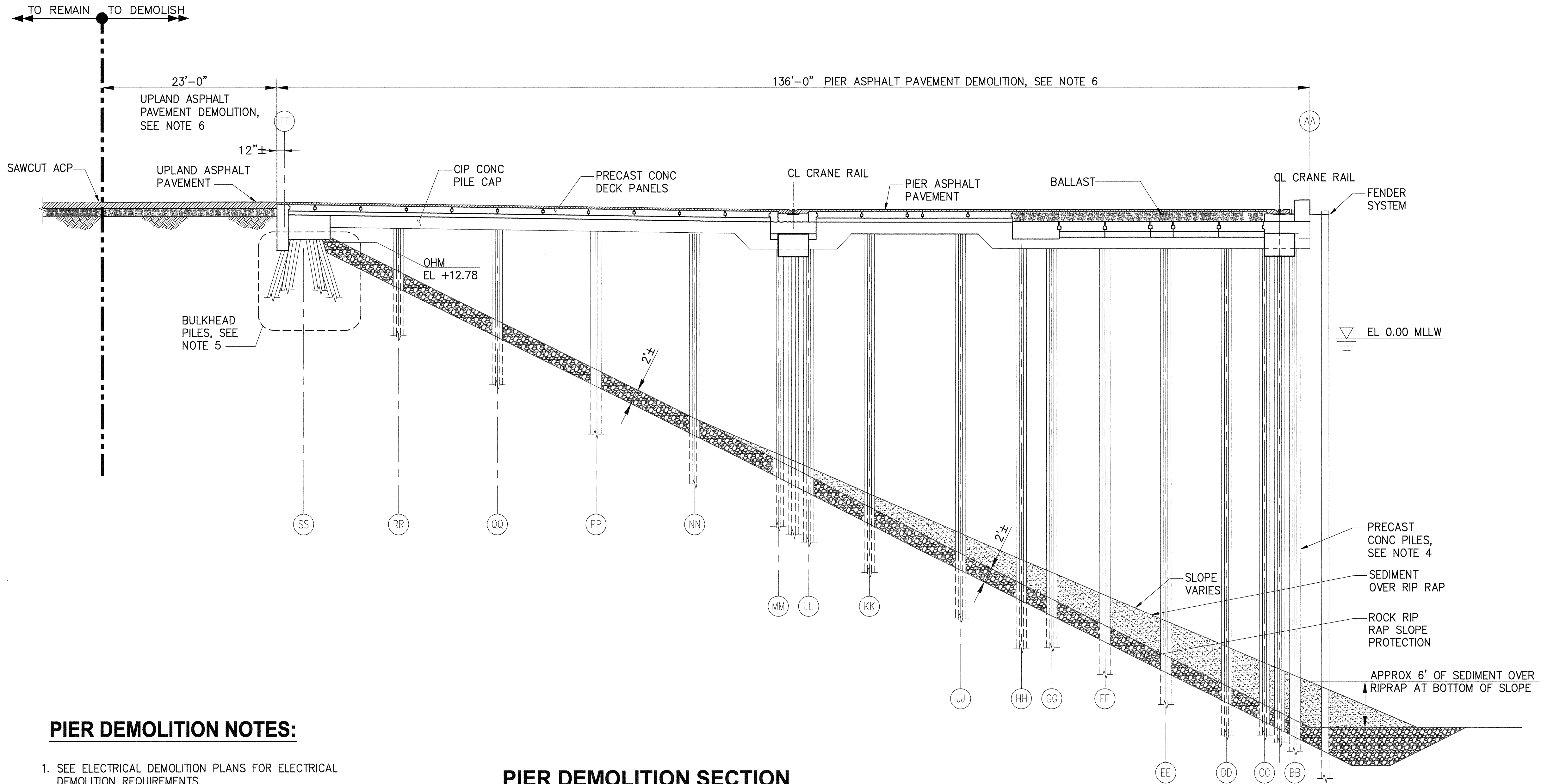
PIER DEMOLITION NOTES:

1. SEE ELECTRICAL DEMOLITION PLANS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATION.
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4. EXTRACTION OF ALL PILES OTHER THAN BULKHEAD PILES IS SUBJECT TO TIMING RESTRICTIONS INDICATED IN THE SPECIFICATIONS.
5. EXTRACTION OF BULKHEAD PILES MAY OCCUR AT ANY TIME DURING THE CONTRACT.
6. ASPHALT PAVEMENT THICKNESS HAS NOT BEEN VERIFIED. RECORD DRAWINGS INDICATE EXISTING PIER ASPHALT THICKNESS TO BE 3"± AND EXISTING UPLAND ASPHALT TO BE 10"± THICKNESS



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	DIRECTOR: <i>[Signature]</i> DATE: 2-6-15		CHECKED BY: DATE: 2/6/15	
kpff P.O. BOX 187 TACOMA, WA 98401 (253) 396-0841	MARK: REVISION: BY: DATE:		TACOMA, WA 98401-1837	
	DATE:		TACOMA, WA 98401-1837	
PIER 4 PHASE 1 REMOVAL ACTION PROJECT PIER DEMOLITION SECTIONS - SHEET 1	TOWNSHIP: 21N RANGE: 3E SECTION: 27		PRINTED BY: dtmuma Feb 05, 2015	
	DATE-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCOM PLAZA	
D4.1 SH 21 OF 54	PARCEL: AS NOTED		TACOMA, WA 98401-1837	
	CONTRACT/CONS: 069982		TACOMA, WA 98401-1837	
M. ID: 091452		TACOMA, WA 98401-1837		
PHASE: BID		TACOMA, WA 98401-1837		

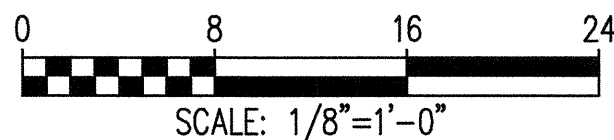
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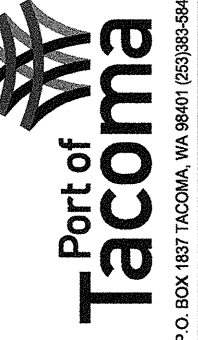


PIER DEMOLITION NOTES:

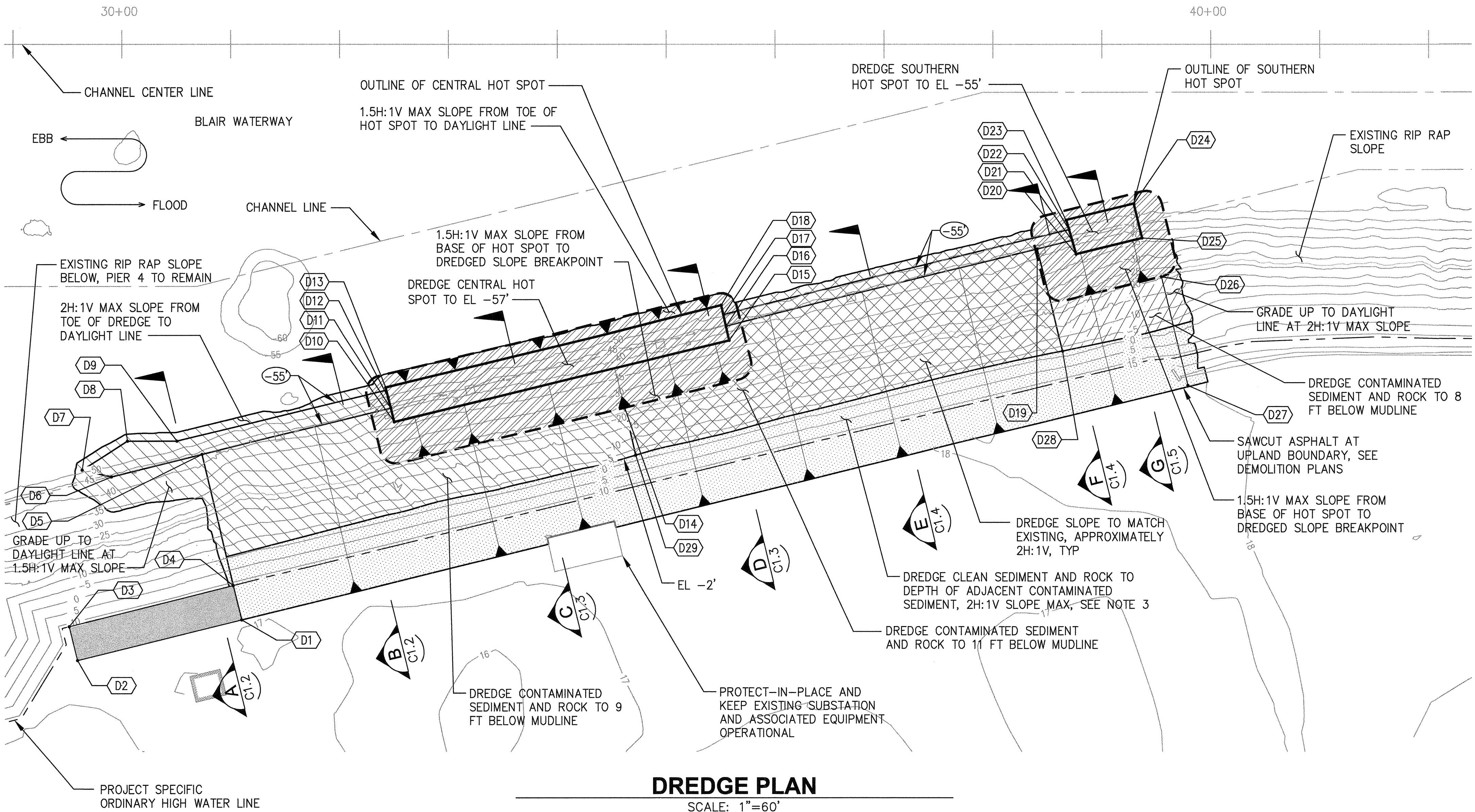
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A
D2.1, D2.2
1/8" = 1'-0"



D4.2 SH 22 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT PIER DEMOLITION SECTIONS - SHEET 2				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE 2-6-15 PROJ. ENGR DATE 2/6/15 TAH 2/6/15 CHECKED BY DATE 2/6/15 SEK	 2-6-15	 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (206) 838-3941	
	CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DATE-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933 DRAWING SCALE: AS NOTED	PRINTED BY: dnmuma Feb 05, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK: REVISION: BY: DATE: APPR: DATE:				

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DREDGE PLAN
SCALE: 1"=60'

DREDGE CONTROL POINTS		
POINT ID	NORTHING	EASTING
D1	713152.79	1166642.74
D2	713231.01	1166508.54
D3	713258.70	1166524.68
D4	713180.77	1166659.10
D5	713286.19	1166721.50
D6	713329.49	1166647.52
D7	713352.58	1166632.50
D8	713342.43	1166680.58
D9	713310.77	1166713.24
D10	713184.68	1166868.96
D11	713196.01	1166875.57
D12	713204.74	1166880.67
D13	713212.91	1166885.44
D14	713046.76	1167030.02
D15	713024.62	1167142.41
D16	713035.80	1167149.30
D17	713044.72	1167154.55

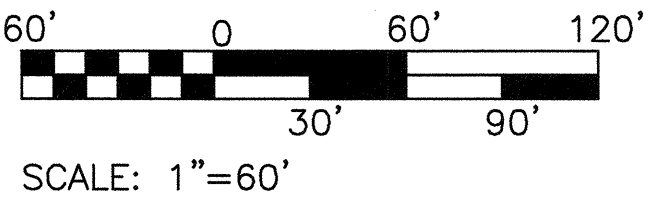
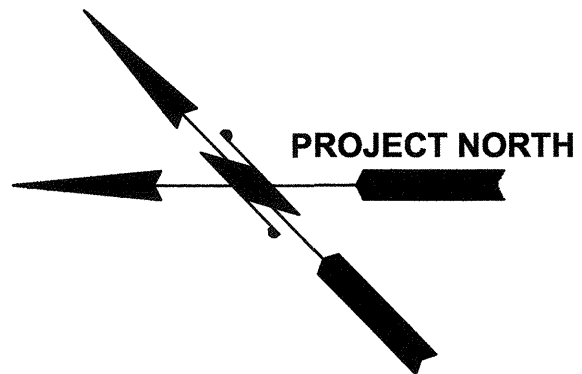
DREDGE CONTROL POINTS CONT'D		
POINT ID	NORTHING	EASTING
D18	713052.29	1167158.97
D19	712887.18	1167403.23
D20	712858.93	1167425.58
D21	712870.47	1167431.77
D22	712879.75	1167436.74
D23	712887.99	1167440.82
D24	712855.44	1167496.05
D25	712827.39	1167479.42
D26	712789.44	1167467.20
D27	712701.52	1167415.72
D28	712804.42	1167355.30
D29	713008.45	1167006.95

NOTES

- DREDGING SHALL NOT EXTEND BEYOND LIMITS SHOWN.
- CONTRACTOR SHALL COORDINATE ALL DREDGING ACTIVITIES AND SCHEDULE WITH THE PORT AND EXISTING TERMINAL OPERATORS.
- IN CLEAN MATERIAL DREDGE AREA REMOVE CLEAN RIP RAP FROM SLOPE PRIOR TO DREDGING SEDIMENT. TRANSPORT RIP RAP TO UPLANDS FOR DISPOSAL OR REUSE.
- ALL CLEAN SEDIMENT (NOT INCLUDING RIP RAP) SHALL BE DISPOSED OF AT THE COMMENCEMENT BAY OPEN WATER DISPOSAL SITE AND IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. REFER TO SPECIFICATIONS FOR HANDLING, PROTECTIVE MEASURES. FOR DISPOSAL SITE LOCATION SEE **C1.5**
- ALL CONTAMINATED SEDIMENT AND ROCK SHALL BE TRANSPORTED TO AND TREATED AT THE TRANSLOAD FACILITY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. REFER TO TRANSLOAD FACILITY PLAN AND THE SPECIFICATIONS FOR HANDLING, PROTECTIVE MEASURES, TREATMENT DEWATERING AND DISPOSAL REQUIREMENTS.
- A MULTI-PASS APPROACH SHALL BE USED FOR DREDGING OF CONTAMINATED MATERIALS. AN ADDITIONAL DREDGE PASS IS REQUIRED FOR DREDGING WITHIN THE OUTLINE OF THE HOT SPOTS. SEE SPECIFICATIONS.
- SAWCUT AND DEMOLISH ASPHALT AND EXCAVATE (MINIMUM 2H:1V SLOPE) AS REQUIRED TO DEMOLISH THE EXISTING BULKHEAD.
- SEE SPECIFICATIONS FOR ADDITIONAL DREDGING AND DISPOSAL REQUIREMENTS.

LEGEND

- EXISTING CONTOUR
- TOE OF DREDGE
- DREDGE CONTROL POINTS
- DREDGE SLOPE
- INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 9FT BELOW MUDLINE, SEE NOTE 5
- INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 11FT BELOW MUDLINE, SEE NOTE 5
- INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 8FT BELOW MUDLINE, SEE NOTE 5
- INDICATES EXTENT OF CLEAN SEDIMENT DREDGING, DREDGE CLEAN SEDIMENT AND RIP RAP TO SAME DREDGE DEPTH AS ADJACENT CONTAMINATED SEDIMENT AND RIP RAP. DEPTH VARIES 8 FT TO 11 FT, SEE NOTES 3 AND 4
- INDICATES EXTENT OF CONTAMINATED HOT SPOT DREDGING, DREDGE DEPTH AND SIZE INDICATED IN PLAN AND SECTION. DREDGING WITHIN THIS AREA SHALL OCCUR WITHIN THE CONFINES OF A PARTIAL DEPTH IMPERMEABLE SILT CURTAIN. SEE SPECIFICATIONS.
- EXCAVATION, SEE NOTE 7
- PROJECT SPECIFIC OHWL (+12.78)
- APPROXIMATE OUTLINE OF DREDGED SLOPE BREAKPOINT FOR HOT SPOT DREDGING



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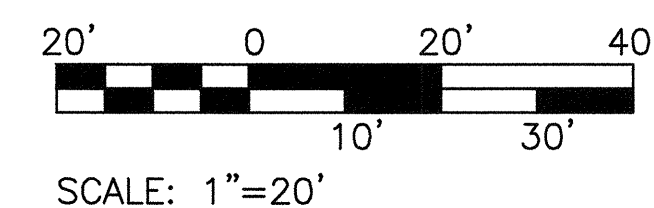
SWK	2/6/2015	APPROVED: <i>[Signature]</i>	PIER 4 PHASE 1 REMOVAL ACTION PROJECT DREDGE PLAN	SH 23 OF 54
CHECKED BY	DATE	DIRECTOR ENG. DATE	TOWNSHIP: 21N	CONTR/CONS: 069982
MDK	2/6/2015	PRINTED BY: sstainer Feb 05, 2015	RANGE: 3E	M. ID: 091452
PROJ. ENGR	DATE	PORT ADDRESS: ONE SITCUM PLAZA	SECTION: 27	PHASE: BID
		TACOMA, WA 98401-1837	VERT: MLLW 19.39' @ Tide 22 1933	
			DRAWING SCALE: AS NOTED	

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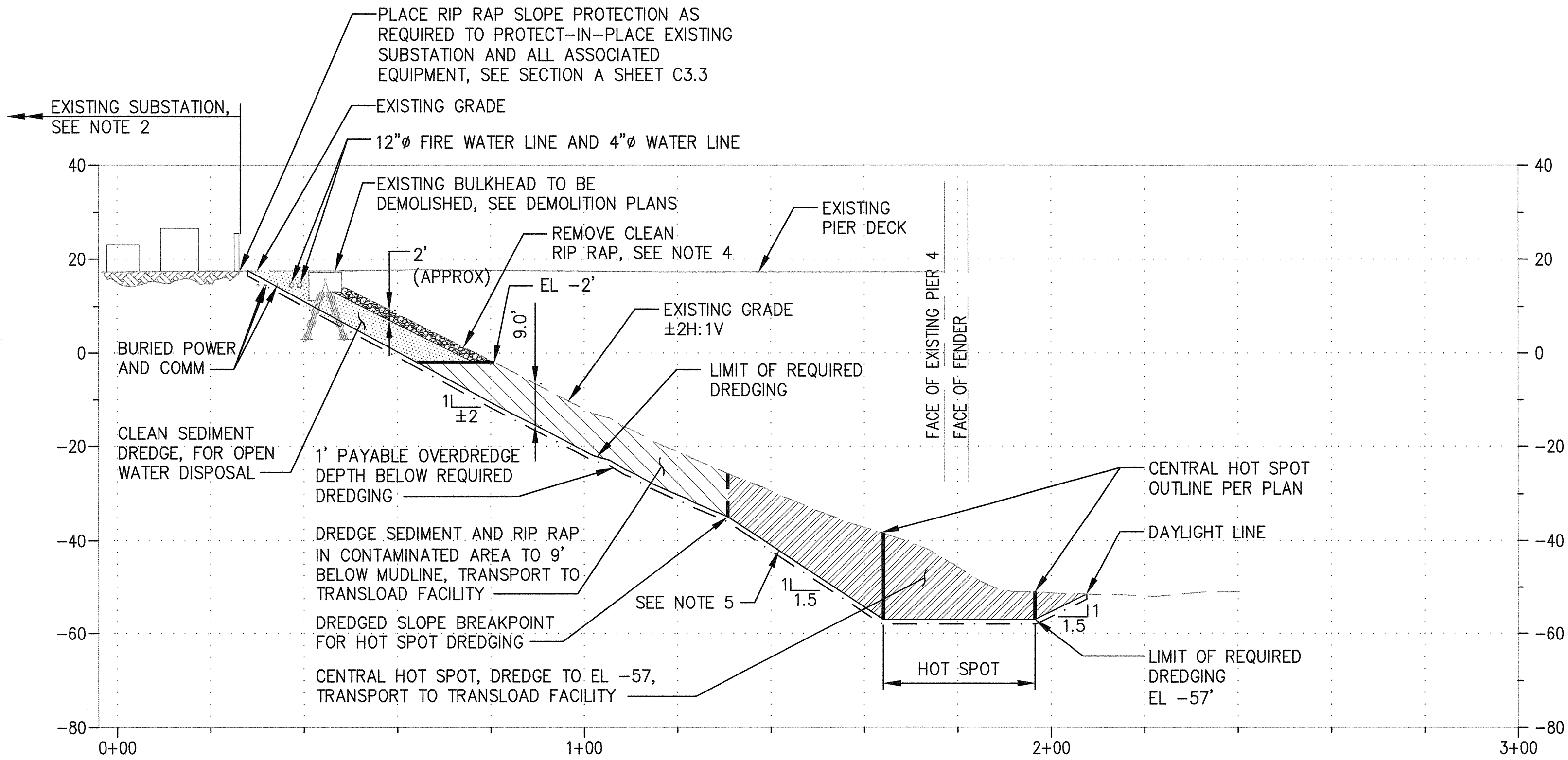


1. DEMOLISH ALL UTILITIES WITHIN THE LIMITS OF DREDGE, SEE UTILITY AND SITE DEMOLITION PLANS.
2. CONTRACTOR SHALL PROTECT-IN-PLACE AND KEEP EXISTING SUBSTATION AND ASSOCIATED EQUIPMENT OPERATIONAL.
3. EXCAVATE (MINIMUM 2H:1V SLOPE) AS REQUIRED TO DEMOLISH AND REMOVE THE EXISTING BULKHEAD, APPROX BOTTOM EL +12' MLLW..
4. IN CLEAN MATERIAL DREDGE AREA (ABOVE EL -2' MLLW) REMOVE CLEAN RIP RAP FROM SLOPE PRIOR TO DREDGING AND TRANSPORT TO UPLANDS FOR DISPOSAL OR REUSE. IN THE CONTAMINATED SEDIMENT DREDGE AREA (BELOW EL -2' MLLW) REMOVE RIP RAP ALONG WITH SEDIMENT AND TRANSPORT TO TRANSLOAD FACILITY.
5. 1.5H TO 1V IS PREDICTED AS THE STEEPEST SLOPE THAT THE DREDGE CUT WILL MAINTAIN.
6. RIP RAP WITHIN CONTAMINATED DREDGING AREA NOT SHOWN, SEE D4.1 AND D4.2 FOR ADDITIONAL INFORMATION.

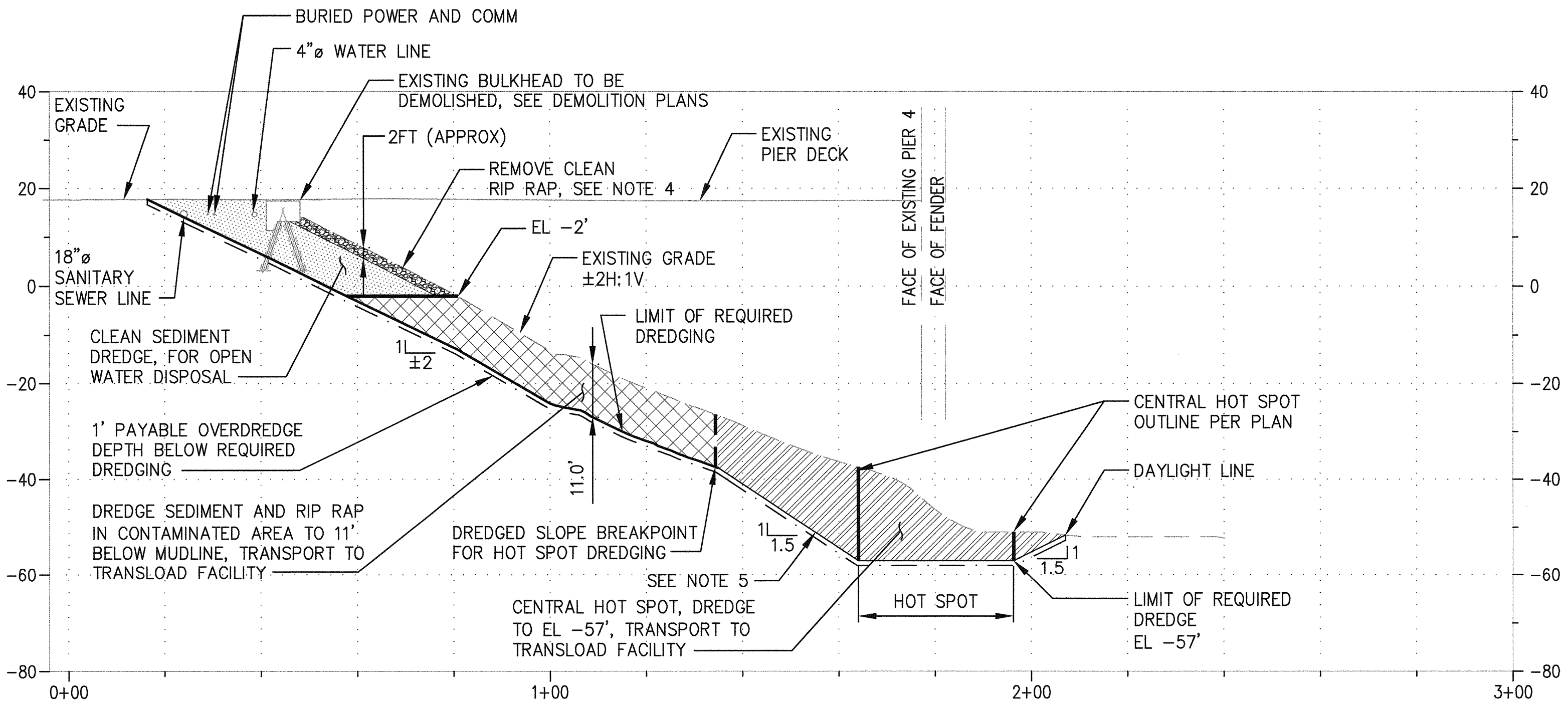
	INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 9FT BELOW MUDLINE, SEE NOTE 5
	INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 11FT BELOW MUDLINE, SEE NOTE 5
	INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 8FT BELOW MUDLINE, SEE NOTE 5
	INDICATES EXTENT OF CLEAN SEDIMENT DREDGING, DREDGE CLEAN SEDIMENT AND RIP RAP TO SAME DREDGE DEPTH AS ADJACENT CONTAMINATED SEDIMENT AND RIP RAP. DEPTH VARIES 8 FT TO 11 FT, SEE NOTES 3 AND 4
	INDICATES EXTENT OF CONTAMINATED HOT SPOT DREDGING, DREDGE DEPTH AND SIZE INDICATED IN PLAN AND SECTION. DREDGING WITHIN THIS AREA SHALL OCCUR WITHIN THE CONFINES OF A PARTIAL DEPTH IMPERMEABLE SILT CURTAIN. SEE SPECIFICATIONS.
	INDICATES RIP RAP IN CLEAN MATERIAL DREDGE AREA. RIP RAP IN CONTAMINATED DREDGE AREA NOT SHOWN.
	EXCAVATION



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**DREDGE SECTION
C1.1 THRU CENTRAL HOT SPOT**
SCALE: 1"=20'



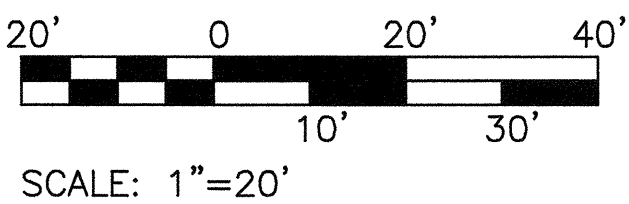
**DREDGE SECTION
D THRU CENTRAL HOT SPOT**
SCALE: 1"=20'

NOTES

1. DEMOLISH ALL UTILITIES WITHIN THE LIMITS OF DREDGE, SEE UTILITY AND SITE DEMOLITION PLANS.
2. CONTRACTOR SHALL PROTECT-IN-PLACE AND KEEP EXISTING SUBSTATION AND ASSOCIATED EQUIPMENT OPERATIONAL.
3. EXCAVATE (MINIMUM 2H:1V SLOPE) AS REQUIRED TO DEMOLISH AND REMOVE THE EXISTING BULKHEAD, APPROX BOTTOM EL +12' MLLW.
4. IN CLEAN MATERIAL DREDGE AREA (ABOVE EL -2' MLLW) REMOVE CLEAN RIP RAP FROM SLOPE PRIOR TO DREDGING AND TRANSPORT TO UPLANDS FOR DISPOSAL OR REUSE. IN THE CONTAMINATED SEDIMENT DREDGE AREA (BELOW EL -2' MLLW) REMOVE RIP RAP ALONG WITH SEDIMENT AND TRANSPORT TO TRANSLOAD FACILITY.
5. 1.5H TO 1V IS PREDICTED AS THE STEEPEST SLOPE THAT THE DREDGE CUT WILL MAINTAIN.
6. RIP RAP WITHIN CONTAMINATED DREDGING AREA NOT SHOWN, SEE D4.1 AND D4.2 FOR ADDITIONAL INFORMATION.

LEGEND

- INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 9FT BELOW MUDLINE, SEE NOTE 5
- INDICATES EXTENT OF CONTAMINATED SEDIMENT DREDGING, DREDGE CONTAMINATED SEDIMENT AND RIP RAP TO 11FT BELOW MUDLINE, SEE NOTE 5
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- INDICATES RIP RAP IN CLEAN MATERIAL DREDGE AREA. RIP RAP IN CONTAMINATED DREDGE AREA NOT SHOWN.
- EXCAVATION



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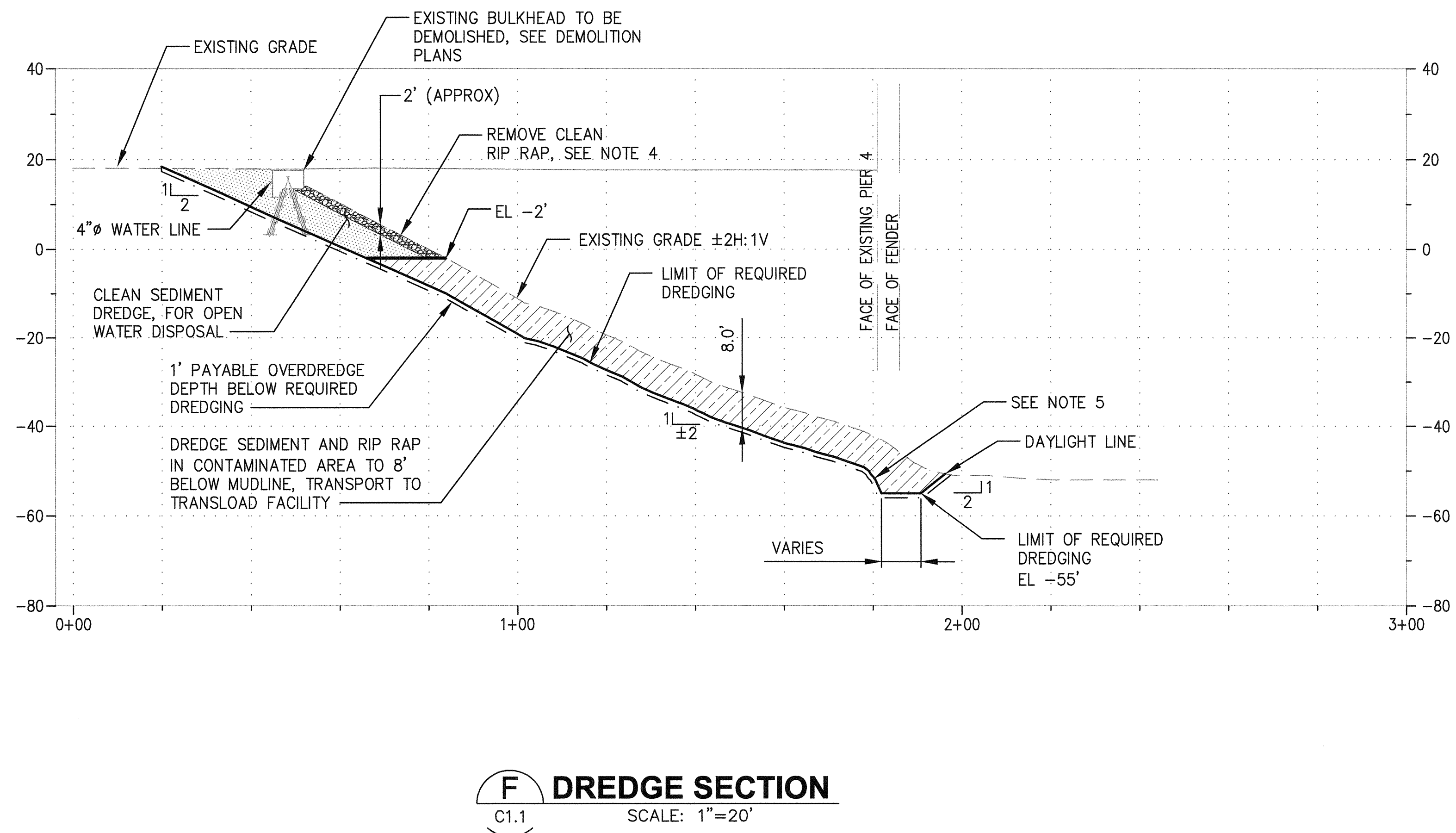
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DIRECTOR:	CHECKED BY: DATE	MDK 2/6/2015
2-6-15	PROJ. ENGR	DATE
PRINTED BY: sstainer Feb 05, 2015	PROJ. ENGR	DATE
PORT ADDRESS: ONE SITCUM PLAZA	PROJ. ENGR	DATE
DRAWING SCALE: AS NOTED	PROJ. ENGR	DATE
TACOMA, WA 98401-1837	PROJ. ENGR	DATE

**PIER 4 PHASE 1
REMOVAL ACTION PROJECT
DREDGE SECTIONS - SHEET 2**

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PARCEL: BID	DRAWING SCALE: AS NOTED	

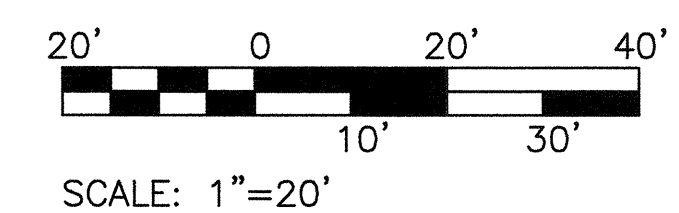
C1.3
SH 25 OF 54

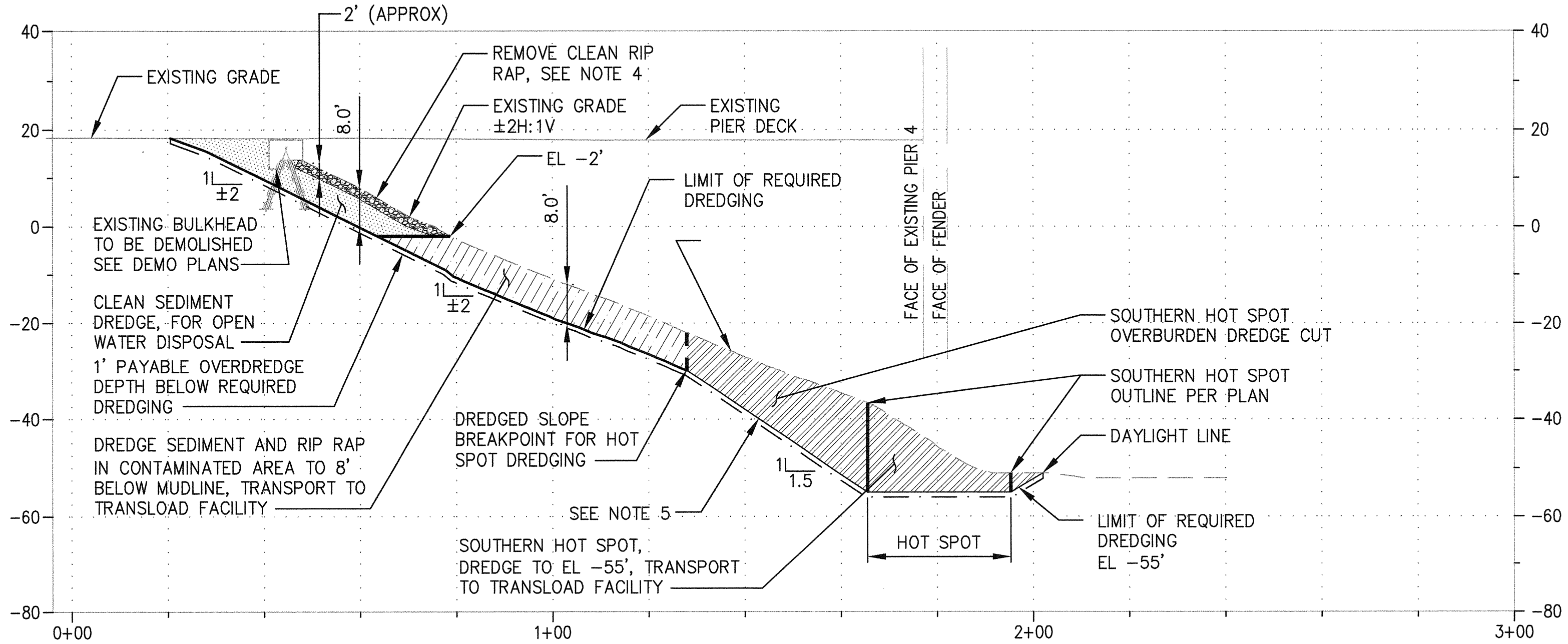
CONT/CONS: 069982
M. ID: 091452
PHASE: BID



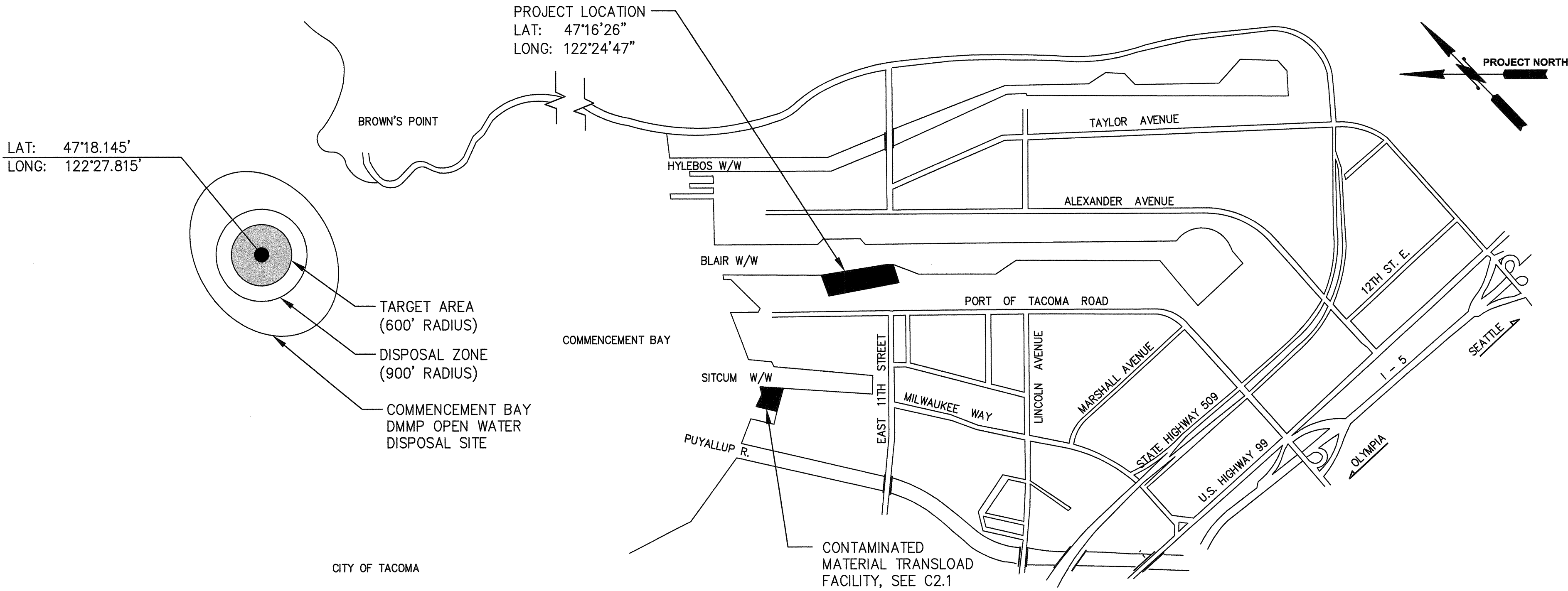
1. DEMOLISH ALL UTILITIES WITHIN THE LIMITS OF DREDGE, SEE UTILITY AND SITE DEMOLITION PLANS.
2. CONTRACTOR SHALL PROTECT-IN-PLACE AND KEEP EXISTING SUBSTATION AND ASSOCIATED EQUIPMENT OPERATIONAL.
3. EXCAVATE (MINIMUM 2H:1V SLOPE) AS REQUIRED TO DEMOLISH AND REMOVE THE EXISTING BULKHEAD, APPROX BOTTOM EL +12' MLLW..
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	EXCAVATION





**DREDGE SECTION
G THRU SOUTHERN HOT SPOT**
C1.1 SCALE: 1"=20'



**DMMP OPEN WATER
DISPOSAL SITE**
C1.1 NTS

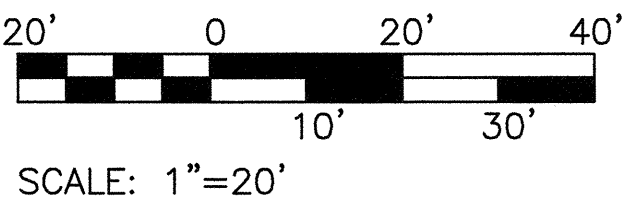
- NOTES:
- THE DMMP DISPOSAL SITE IS SHOWN CLOSER THAN THE ACTUAL SITE DISTANCE.

NOTES

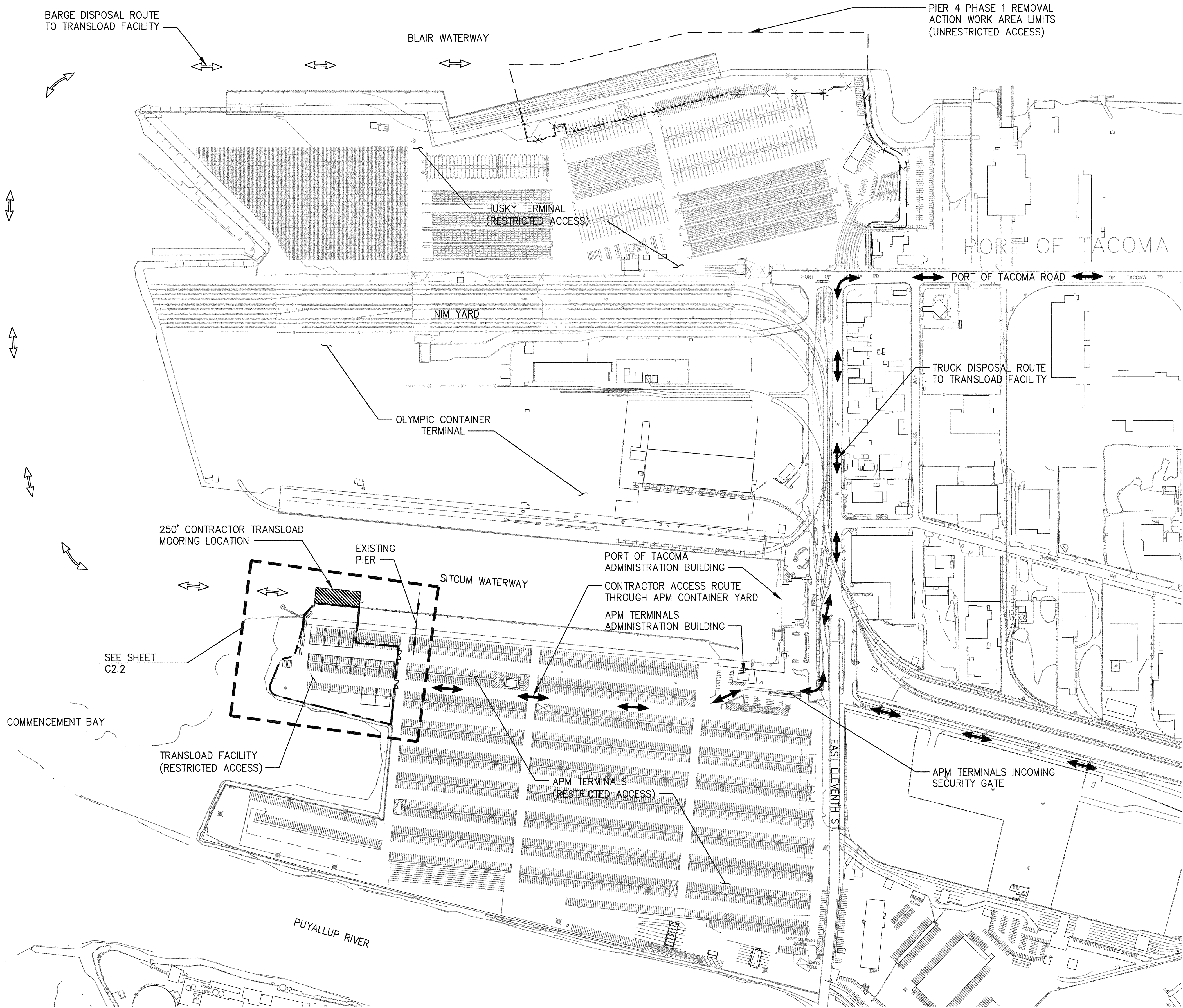
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LEGEND

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- INDICATES RIP RAP IN CLEAN MATERIAL DREDGE AREA. RIP RAP IN CONTAMINATED DREDGE AREA NOT SHOWN.
- EXCAVATION



Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253)396-5161	DATE:	
	APPR:	
kpff	BY:	
	REVISION:	
	MARK:	
PIER 4 PHASE 1 REMOVAL ACTION PROJECT DREDGE SECTIONS - SHEET 4		
C1.5 SH 27 OF 54	TOWNSHIP: 21N	SECTION: 27
	RANGE: 3E	DATE: 2/6/2015
	VERT: WA83-SF	PRINTED BY: sstainer Feb 05, 2015
	PARCEL:	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
CONTRACT/CONS: 069982		
M. ID: 091452		
PHASE: BID		



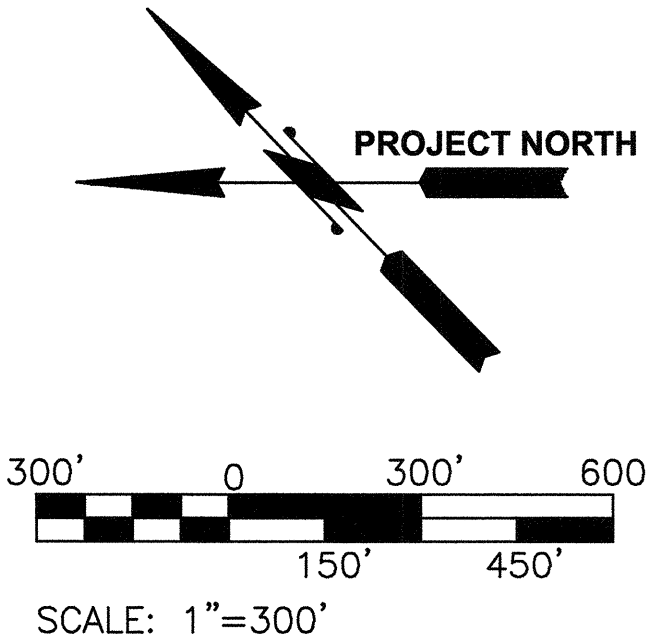
TRANSLOAD FACILITY PLAN
SCALE: 1"=300'

NOTES

1. ALL CONTAMINATED MATERIAL DREDGED AT THE PIER 4 SITE SHALL BE TRANSPORTED TO THE TRANSLOAD FACILITY LOCATED AS SHOWN WITHIN THE APM CONTAINER YARD. THE TRANSLOAD FACILITY SHALL BE USED TO PROCESS CONTAMINATED DREDGE MATERIAL FOR LANDFILL DISPOSAL. THE TRANSLOAD FACILITY SHALL BE DESIGNED, SET-UP, OPERATED, MAINTAINED, AND CLEANED UP BY THE CONTRACTOR PER THE CONTRACT DOCUMENTS.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR TRANSLOADING.

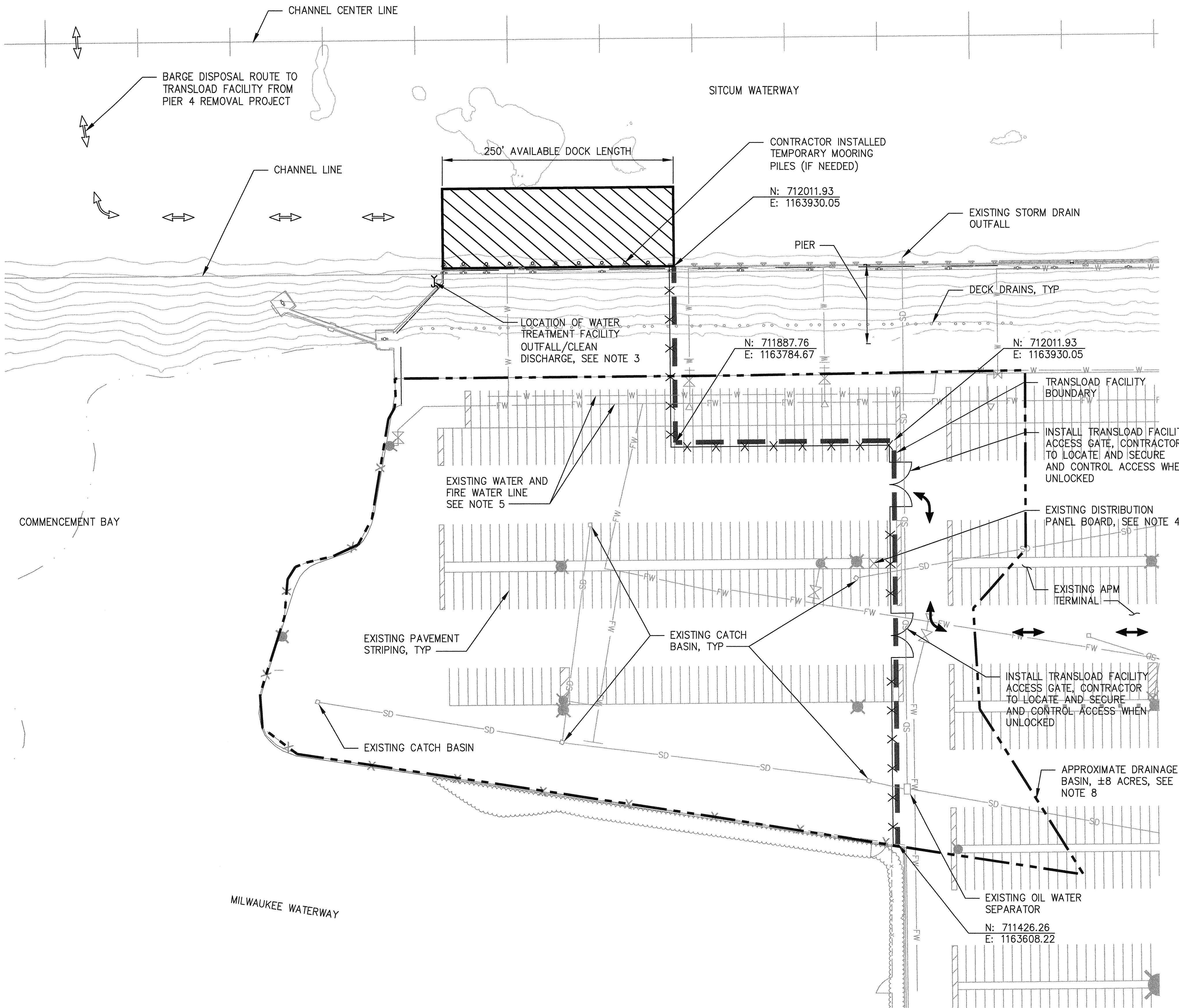
LEGEND

- CONTRACTOR ACCESS ROUTE
- CONTRACTOR TRANSLOAD FACILITY BARGE ROUTE
- CONTRACTOR MOORING LOCATION TRANSLOAD FACILITY
- TRANSLOAD FACILITY LIMITS
- PIER 4 PHASE 1 WORK AREA LIMITS



C2.1 SH 28 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TRANSLOAD FACILITY LOCATION PLAN				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE PRINTED BY: kvang Feb 04, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		kpff 3407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	Port of Tacoma P.O. BOX 487 TACOMA, WA 98407 (203)955-8641
	CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27 VERT: MLLW 19.39' @ Tide 22 1933 DAT-HRZ: WA83-SF PARCEL: AS NOTED	SWK: 2/6/2015 CHECKED BY: MDK DATE: 2/6/2015 PROJ. ENGR: DATE: 2/6/2015	MARK: REVISION: BY: DATE: APPR:				

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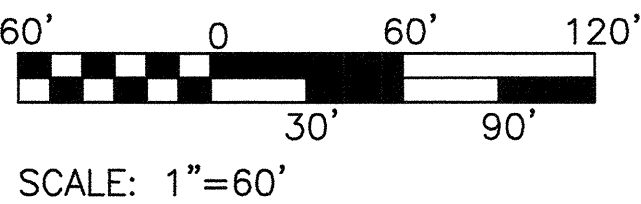
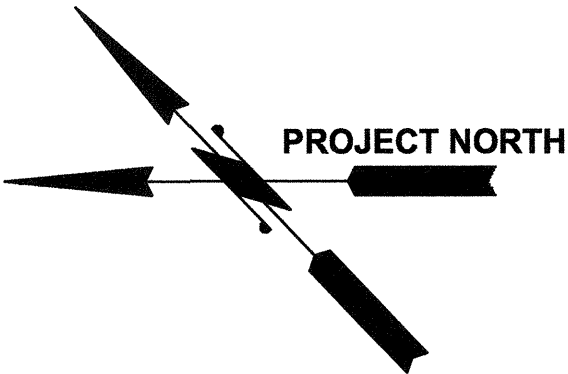
TRANSLOAD FACILITY PLAN
SCALE: 1"=60'

NOTES

1. APM TERMINAL IS A SECURED OPERATING TERMINAL. THE CONTRACTOR SHALL NOT INTERFERE WITH TERMINAL OPERATIONS.
2. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE TRANSLOAD FACILITY BOUNDARY UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA.
3. CONTRACTOR TO DETERMINE PIPE ROUTING ACROSS THE TRANSLOAD FACILITY FROM THE WATER TREATMENT FACILITY TO TEMPORARY OUTFALL LOCATION.
4. IF NECESSARY, CONTRACTOR SHALL CONSTRUCT A TEMPORARY POWER FEED FROM THE EXISTING DISTRIBUTION PANEL BOARD AND SHALL COORDINATE WITH APM TERMINALS AND THE PORT. THE EXISTING DISTRIBUTION PANEL BOARD IS RATED 600 AMPS, 480Y/277 VOLTS, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. A FRESH WATER SYSTEM EXISTS WITHIN THE TRANSLOAD FACILITY BOUNDARY, CONTRACTOR SHALL COORDINATE WITH APM TERMINALS AND THE PORT IF A TEMPORARY WATER CONNECTION IS REQUIRED, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. CONTRACTOR SHALL NOT PARK ANY EQUIPMENT OR PERSONAL VEHICLES OUTSIDE TRANSLOAD FACILITY.
7. TERMINAL TRAFFIC SHALL HAVE RIGHT-OF-WAY AT ALL TIMES.
8. CONTRACTOR SHALL COLLECT AND TREAT ALL SURFACE WATER GENERATED BOTH ON-SITE AS WELL AS ANY SURFACE WATER ENTERING THE TRANSLOAD FACILITY FROM OFF-SITE.

LEGEND

- CONTRACTOR BERTHING LOCATION
- CONTRACTOR TRUCK ACCESS ROUTE
- LIGHT POLE
- FIRE HYDRANT
- TRANSLOAD FACILITY BOUNDARY
- INSTALL TEMPORARY FENCE
- CONTRACTOR TRANSLOAD FACILITY BARGE ROUTE
- FIRE WATER
- WATER
- STORM DRAIN
- DRAINAGE BASIN



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C2.2

SH 29 OF 54

CONTRACT/CONS: 069982
M. ID: 091452
PHASE: BID

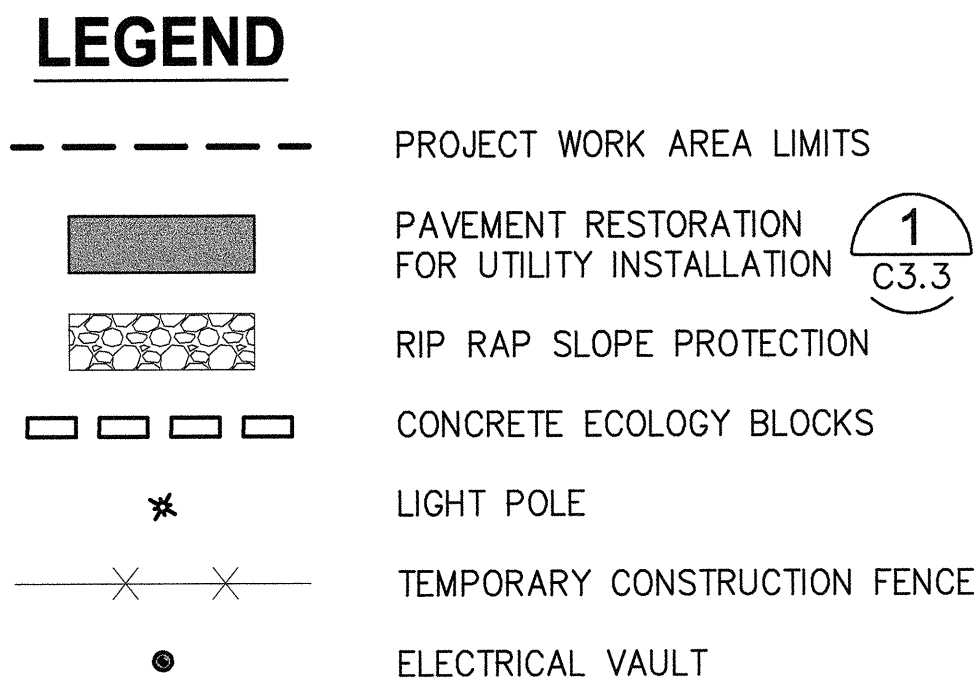
PIER 4 PHASE 1
REMOVAL ACTION PROJECT
TRANSLOAD FACILITY PLAN

TOWNSHIP: 21N RANGE: 3E SECTION: 27
DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: AS NOTED

2/6/2015
CHECKED BY: SWK
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DATE: 2/6/2015

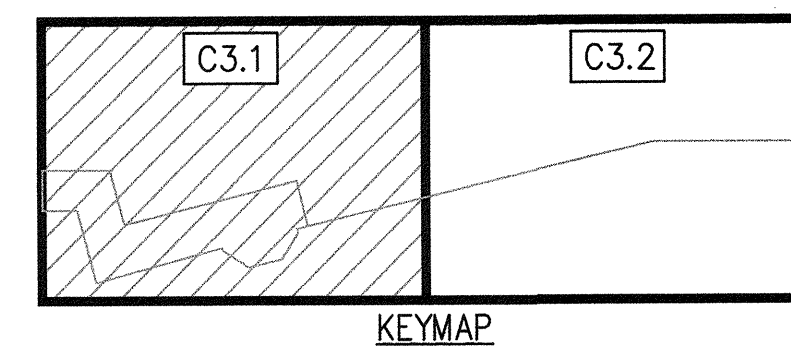
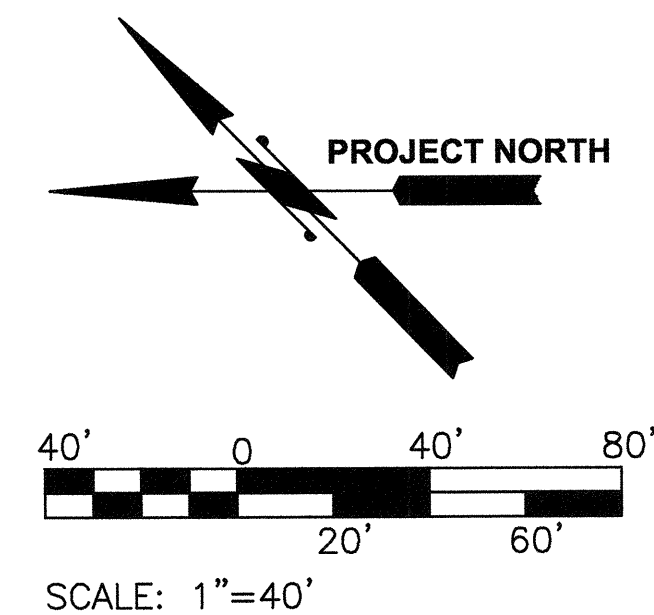
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DATE:

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NOTES

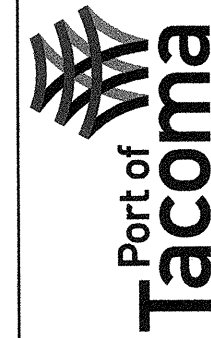
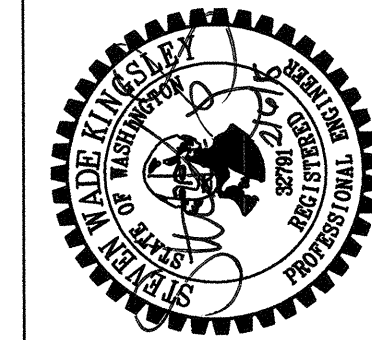
1. CONCRETE ECOLOGY BLOCKS SHALL BE SPACED A MAXIMUM OF 5FT APART ALONG THE TOP OF DREDGE CUTBACK SLOPE AND WHERE INDICATED IN PLAN.
2. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
3. UTILITY TRENCHING AND PAVEMENT REPLACEMENT OUTSIDE PROJECT WORK AREA LIMITS TO BE COORDINATED WITH PORT AND TENANT.



GRADING AND TEMPORARY PAVING PLAN

SCALE: 1"=40'

MATCH LINE SEE SHEET C3.2

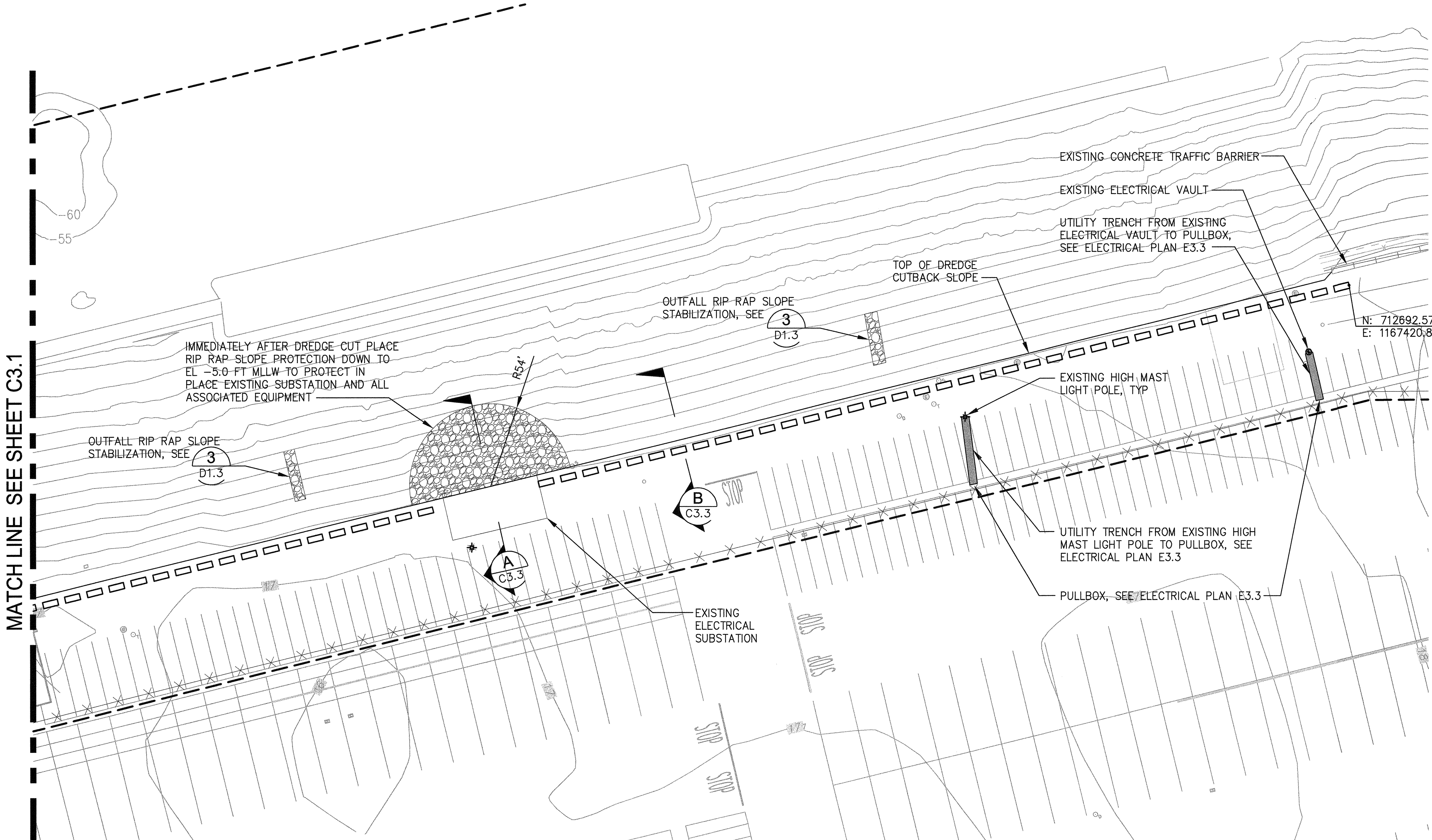


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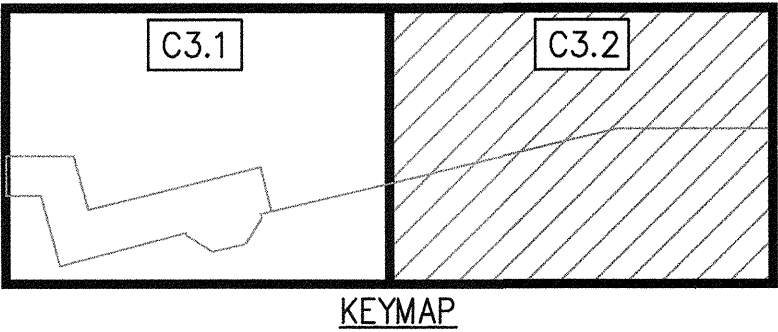
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C3.1 SH 30 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT GRADING AND TEMPORARY PAVING PLAN - SHEET 1				APPROVED: 	SWK CHECKED BY	2/6/2015 DATE
					2-6-15	MDK 2/6/2015	
					DIRECTOR ENG. DATE	PROJ. ENGR DATE	
					PRINTED BY: kwong	Feb 04, 2015	
CONT/CONS: 069982		TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837		
M. ID: 091452		DAT-HRZ: WA83-SF	VERT: MLW 19.39' @ Tide	22 1933			
PHASE: BID		DRAWING SCALE: AS NOTED		PARCEL:			

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GRADING AND TEMPORARY PAVING PLAN
SCALE: 1"=40'

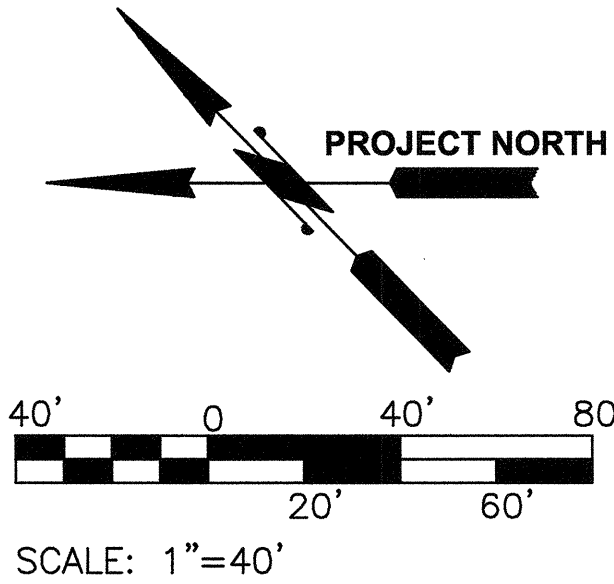


LEGEND

- PROJECT WORK AREA LIMITS
- PAVEMENT RESTORATION FOR UTILITY INSTALLATION (1 C3.3)
- RIP RAP SLOPE PROTECTION
- CONCRETE ECOLOGY BLOCKS
- LIGHT POLE
- TEMPORARY CONSTRUCTION FENCE
- ELECTRICAL VAULT

NOTES

- CONCRETE ECOLOGY BLOCKS SHALL BE SPACED A MAXIMUM OF 5FT APART ALONG THE TOP OF DREDGE CUTBACK SLOPE AND WHERE INDICATED IN PLAN.
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MARK:	REVISION:	BY:	DATE:

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
GRADING AND TEMPORARY PAVING PLAN - SHEET 2

C3.2

SH 31 OF 54

CONTR/CONS:	069982	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091452	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39'	@ Tide	22 1933
PHASE:	BID	PARCEL:	DRAWING SCALE: AS NOTED				

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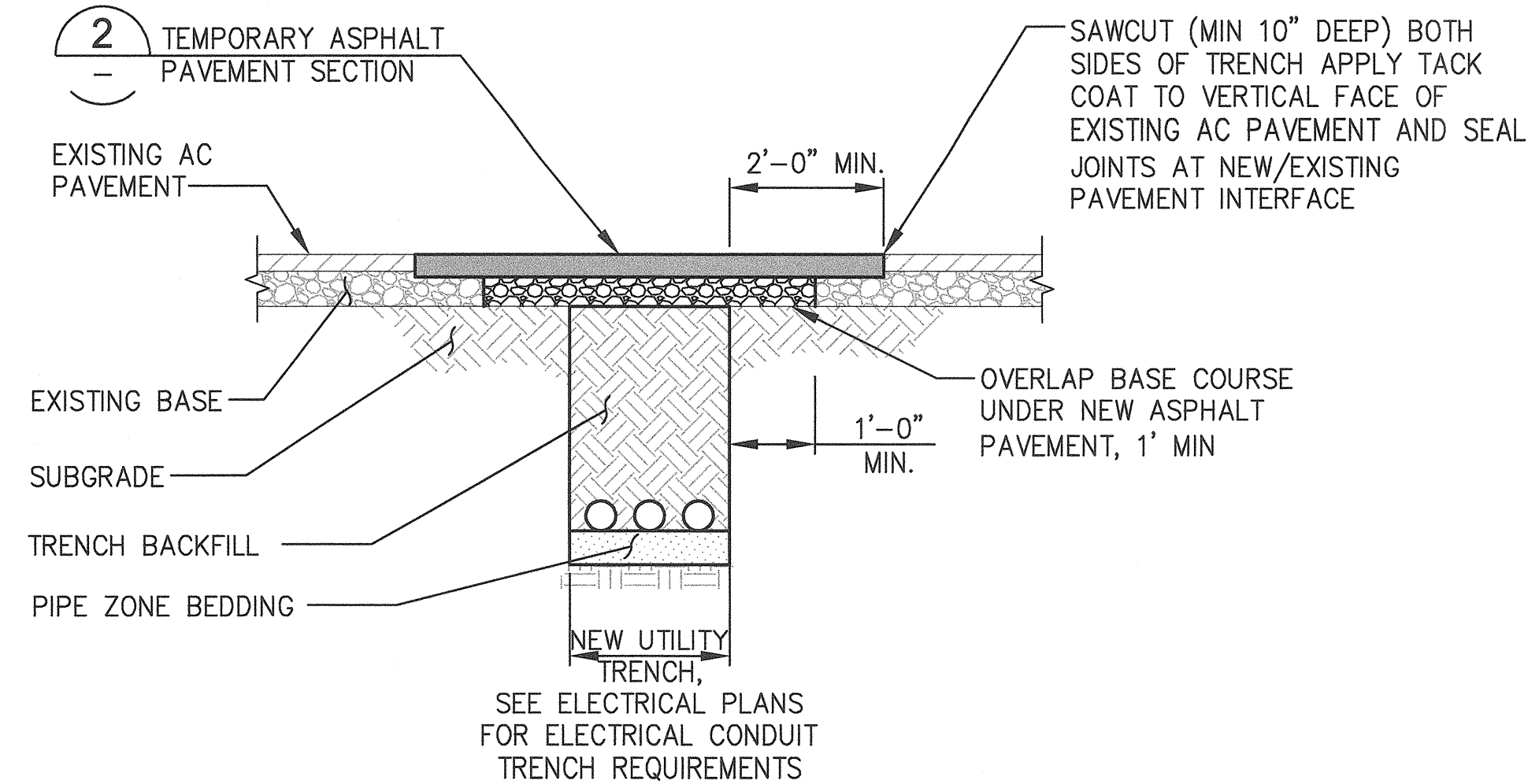
SWK 2/6/2015
CHECKED BY: DATE

MDK 2/6/2015
PROJECT ENGR DATE

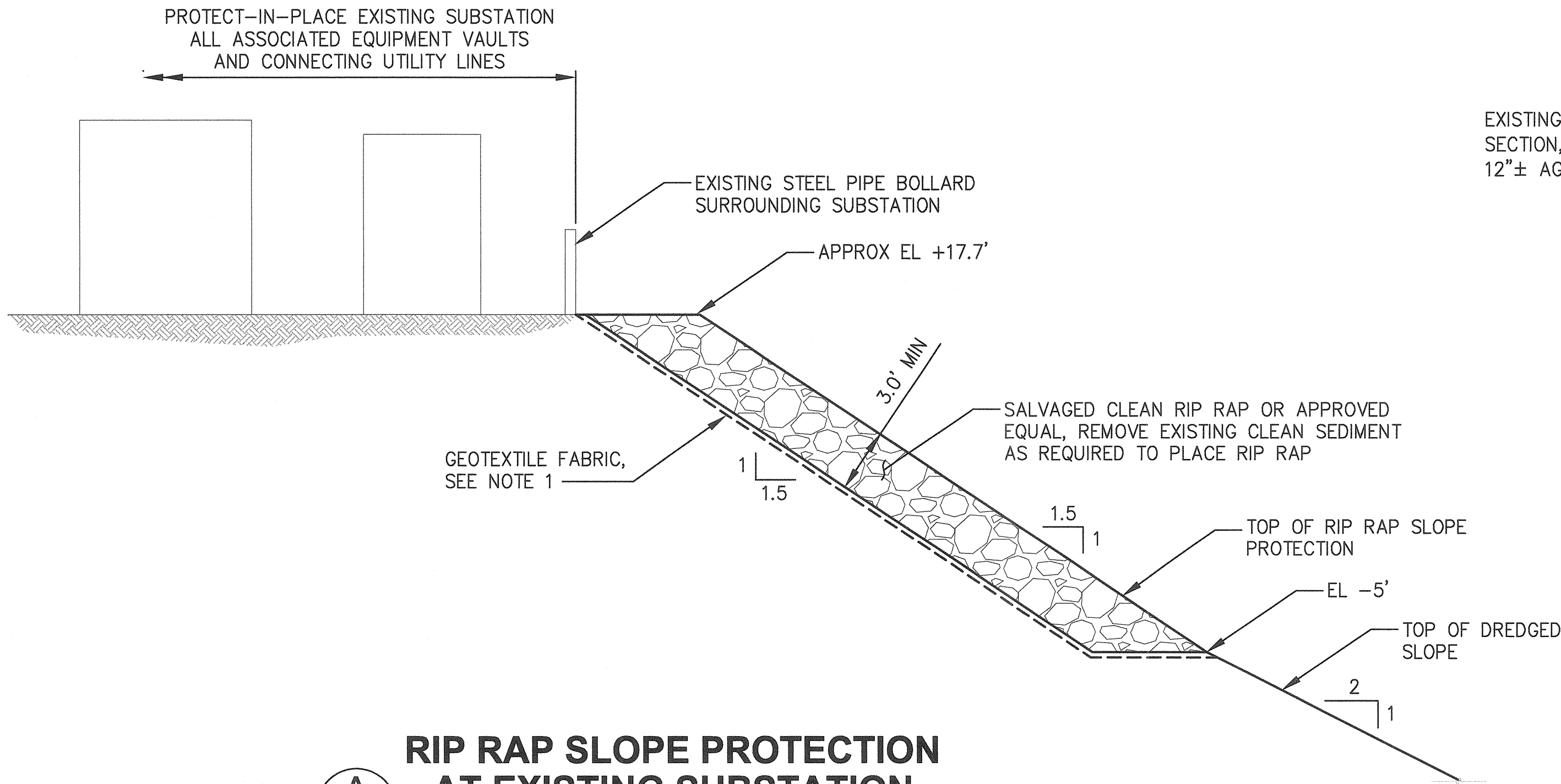
PRINTED BY: kvang Feb 04, 2015

PORT ADDRESS: ONE SITCUM PLAZA
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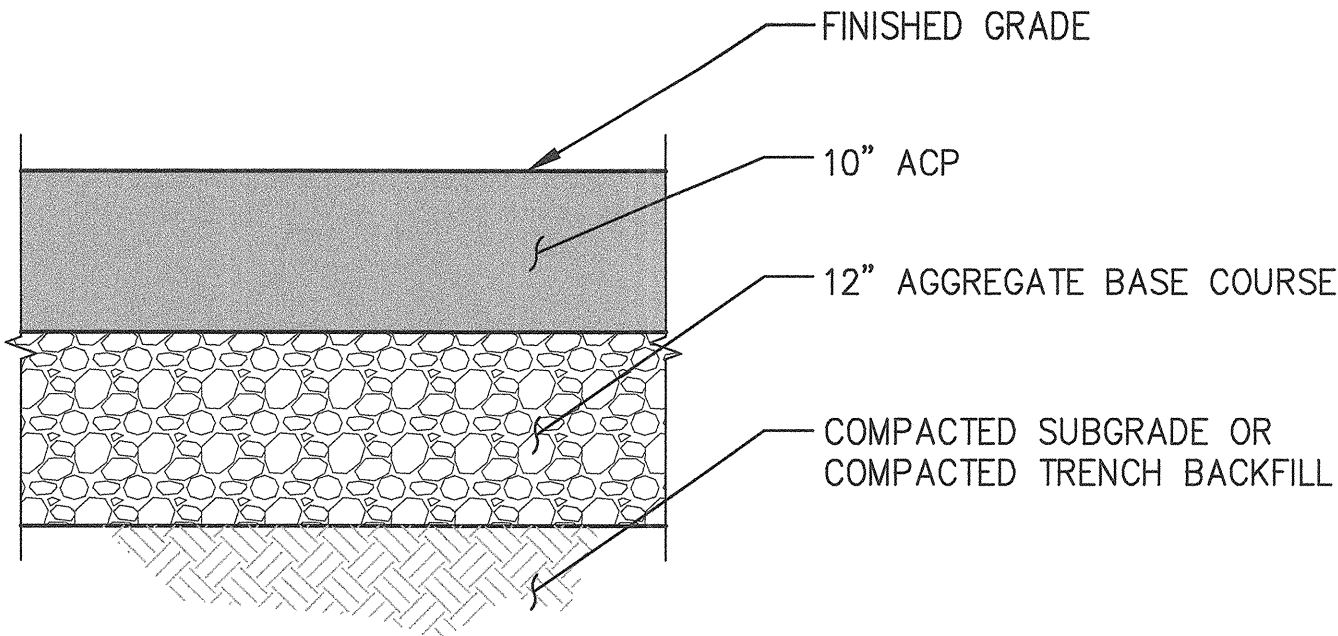


1 PAVEMENT RESTORATION
C3.1,C3.2 NTS

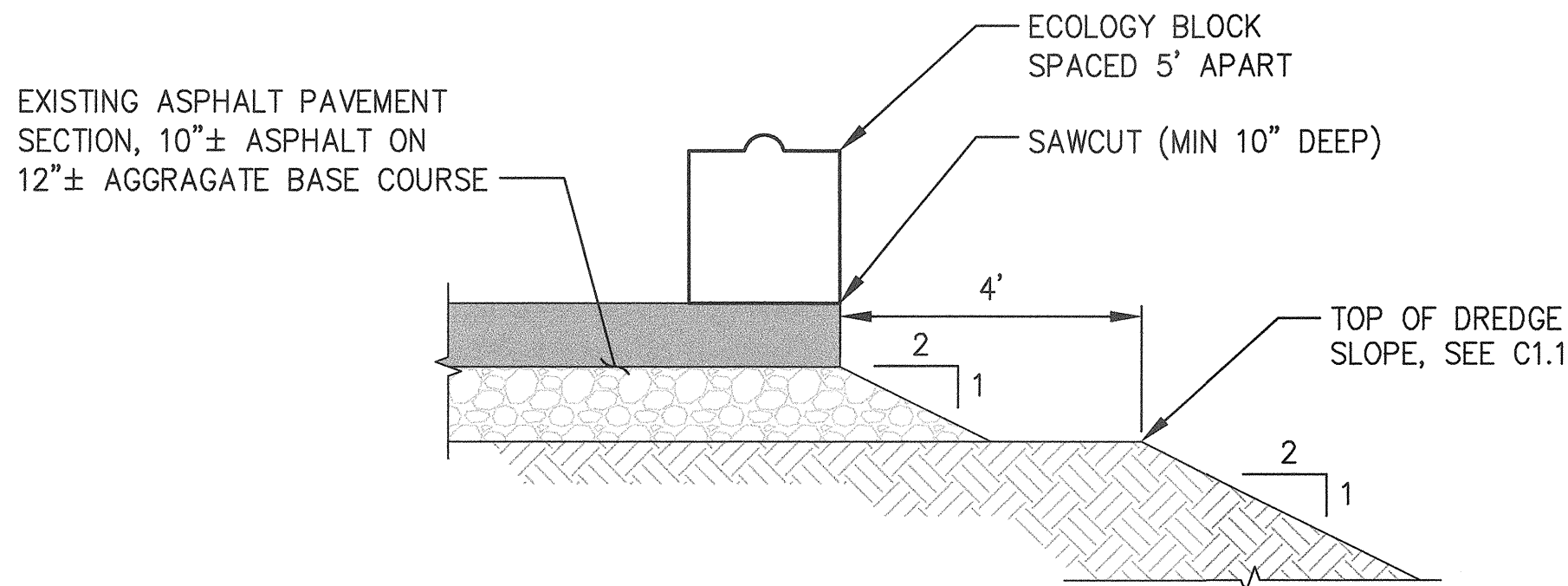


A RIP RAP SLOPE PROTECTION AT EXISTING SUBSTATION
C3.2 NTS

- NOTES:
1. GEOTEXTILE FABRIC SHALL BE MIRAFI FW404 OR APPROVED EQUAL AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



2 TEMPORARY ASPHALT PAVEMENT SECTION
NTS



B TYPICAL PAVEMENT EDGE SECTION
C3.2 NTS



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PORT ADDRESS:	ONE SITCUM PLAZA	
TACOMA, WA	98401-1837	

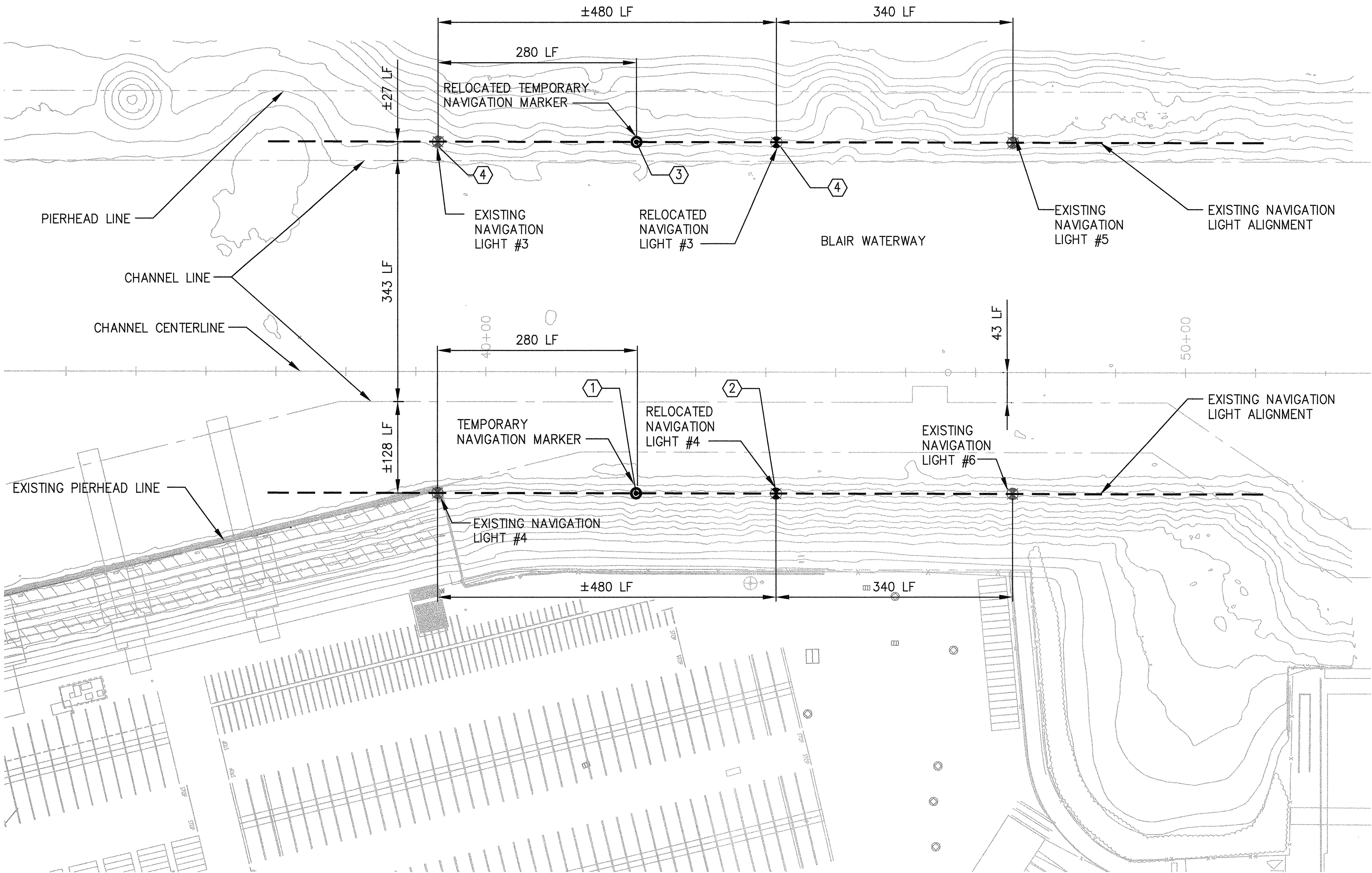
PIER 4 PHASE 1	SECTION:	27
REMOVAL ACTION PROJECT	RANGE:	3E
GRADING AND TEMPORARY PAVING DETAILS	TOWNSHIP:	21N
	DAT-HRZ:	WA83-SF
	VERT:	MLLW 19.39' @ Tide 22 1933
	DRAWING SCALE:	AS NOTED

C3.3	SH 32 OF 54
CONT/CONS:	069982
M. ID:	091452
PHASE:	BID

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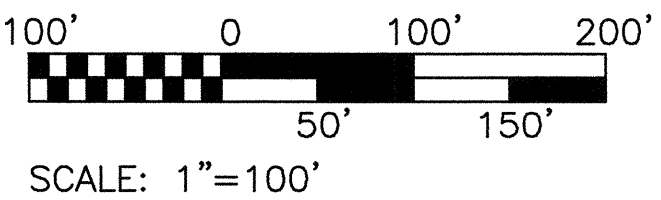
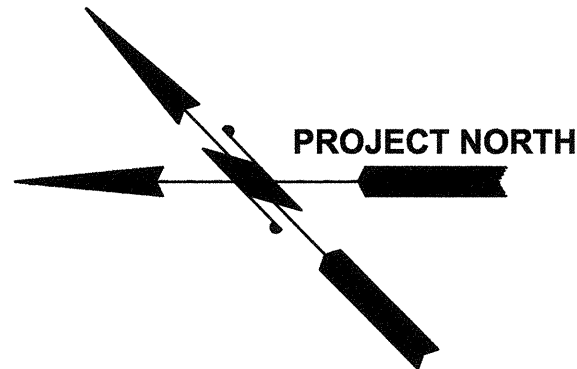
kpff

MARK: REVISION: BY: APPR: DATE:



NAVIGATION LIGHTING PLAN

SCALE: 1"=100'



GENERAL NOTES:

- SEE SPECIFICATIONS FOR LIST OF REFERENCE DRAWINGS DETAILING THE EXISTING NAVIGATION LIGHTS.
- EXISTING NAVIGATION LIGHT LOCATIONS ARE APPROXIMATE, PRIOR TO BEGINNING WORK CONTRACTOR SHALL SURVEY THE EXISTING LIGHT LOCATIONS, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- AT THE CONTRACTOR'S OPTION THE TEMPORARY NAVIGATION MARKER CAN BE MOVED FROM THE WEST SIDE OF THE WATERWAY TO THE EAST SIDE OF THE WATERWAY AFTER CONSTRUCTION OF NAVIGATION LIGHT #4 IN THE PERMANENT LOCATION IS COMPLETE.
- REFER TO SPECIFICATIONS FOR TIMING RESTRICTIONS ASSOCIATED WITH THIS WORK.

NAVIGATION LIGHT PHASING:

- TEMPORARY NAVIGATION MARKER ON WEST SIDE OF WATERWAY SHALL BE INSTALLED AND OPERATING PRIOR TO REMOVAL OF NAVIGATION LIGHT #4. TEMPORARY NAVIGATION MARKER SHALL BE INSTALLED ALONG SAME ALIGNMENT AS EXISTING NAVIGATION LIGHT #4 AND #6, BUT OFFSET 280 LF SOUTH OF EXISTING NAVIGATION LIGHT #4.
- CONSTRUCT NAVIGATION LIGHT #4 AT PERMANENT LOCATION.
- TEMPORARY NAVIGATION MARKER ON EAST SIDE OF WATERWAY SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF NAVIGATION LIGHT #3. TEMPORARY NAVIGATION MARKER SHALL BE INSTALLED ALONG SAME ALIGNMENT AS EXISTING NAVIGATION LIGHT #3 AND #5, BUT OFFSET 280 LF SOUTH OF EXISTING NAVIGATION LIGHT #3.
- REMOVE AND SALVAGE NAVIGATION LIGHT #3 AND ALL APPURTENANCES AND INSTALL AT PERMANENT LOCATION.

NAVIGATION LIGHT #3 DEMOLITION AND CONSTRUCTION NOTES:

- DISCONNECT THE EXISTING POWER SOURCE.
- REMOVE EXISTING STEEL TOWER AND PLATFORM ASSEMBLY FROM SUPPORTING STEEL PILES AT EXISTING WELD SPLICE.
- EXTRACT AND DISPOSE OF EXISTING STEEL PILES.
- INSTALL NEW PILES AT THE DESIGNATED LOCATION ALONG EXISTING ALIGNMENT AND ERECT THE EXISTING TOWER AND PLATFORM ASSEMBLY PER DETAILS ON S1.3 AND S1.4. THE RELOCATED TOWER AND LIGHT ELEVATION SHALL MATCH THE EXISTING TOWER AND LIGHT ELEVATION. REPLACE ANY HARDWARE DAMAGED DURING REMOVAL OF EXISTING TOWER OR PROVIDE NEW AS REQUIRED FOR RE-INSTALLATION OF THE TOWER AND PLATFORM.

NAVIGATION LIGHT #4 DEMOLITION AND CONSTRUCTION NOTES:

- DISCONNECT THE EXISTING POWER SOURCE.
- REMOVE EXISTING STEEL TOWER AND PLATFORM ASSEMBLY FROM EXISTING PIER 4 DECK.
- INSTALL NEW PILES AT THE DESIGNATED LOCATION ALONG EXISTING ALIGNMENT AND ERECT THE EXISTING TOWER AND PLATFORM ASSEMBLY, PER DETAILS ON S1.3 AND S1.4. THE RELOCATED TOWER AND LIGHT ELEVATION SHALL MATCH THE EXISTING TOWER AND LIGHT ELEVATION. REPLACE ANY HARDWARE DAMAGED DURING REMOVAL OF EXISTING TOWER OR PROVIDE NEW AS REQUIRED FOR RE-INSTALLATION OF THE TOWER AND PLATFORM.

LEGEND

- EXISTING NAVIGATION LIGHT
- TEMPORARY NAVIGATION MARKER,

1
C4.2
- RELOCATED NAVIGATION LIGHT
- EXISTING NAVIGATION LIGHT ALIGNMENT, SEE NOTE 2

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APPROVED: 2-6-15
DIRECTOR ENG. DATE
PRINTED BY: kvang Feb 04, 2015
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
NAVIGATION LIGHTING PLAN

C4.1

SH 33 OF 54

CONT/CONS: 069982
M. ID: 091452
PHASE: BID

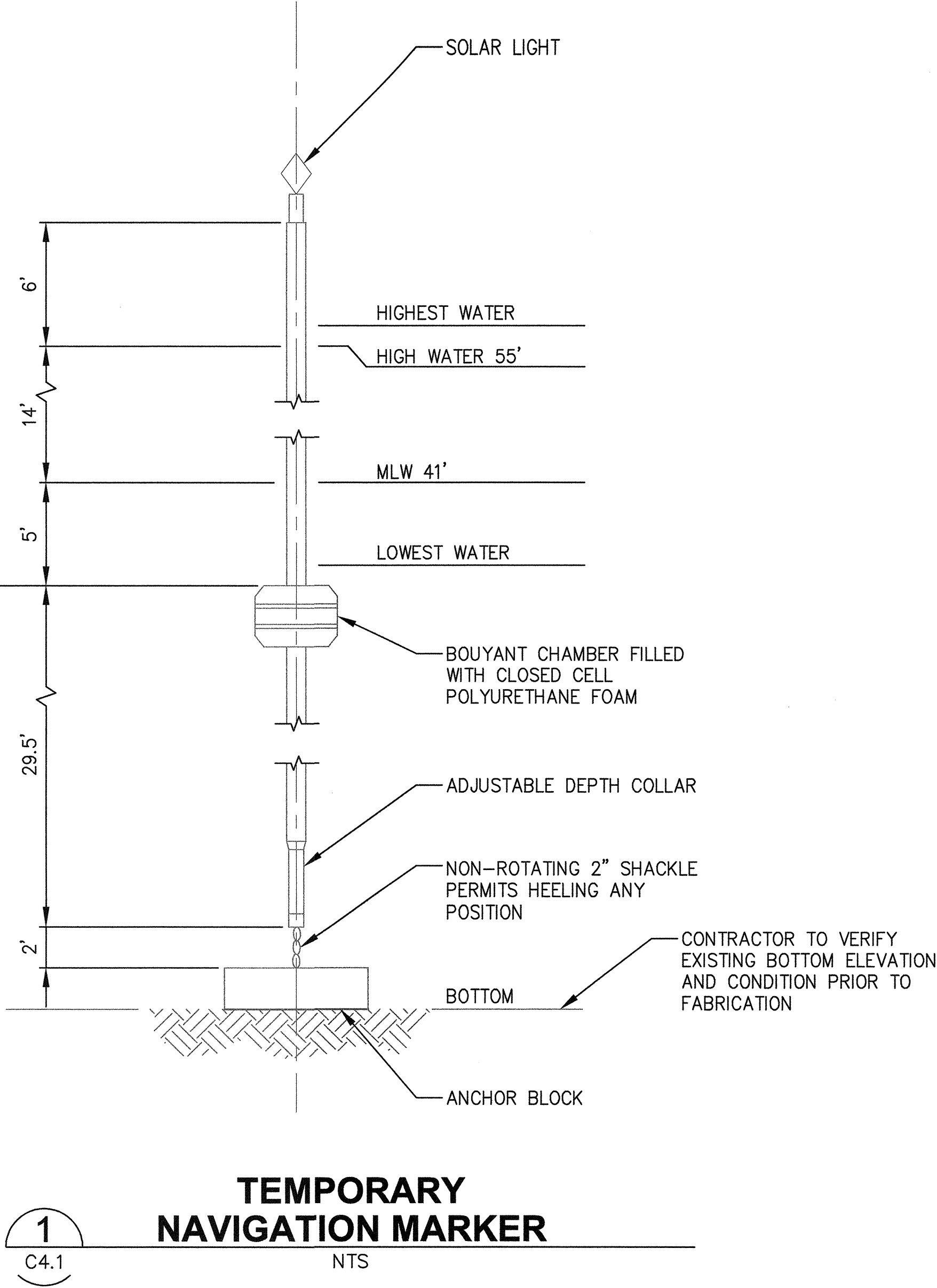
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RANGE: 3E
SECTION: 27
DAT-HRZ: WA83-SF
VERT: MILLW 19.39' @ Tide 22 1933
PARCEL: AS NOTED

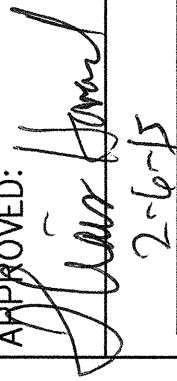
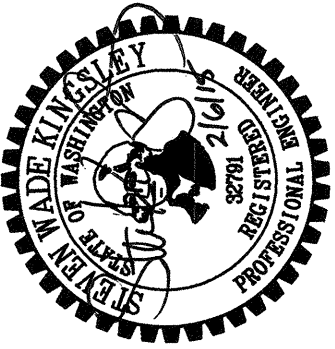
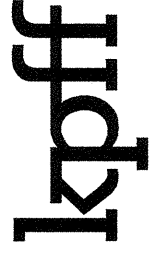
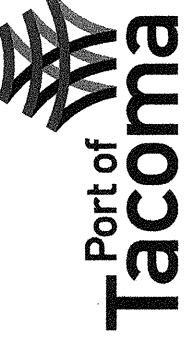
DRAWING SCALE: AS NOTED

SWK 2/6/2015
CHECKED BY DATE
MDK 2/6/2015
PROJ. ENGR DATE
kvang Feb 04, 2015
TACOMA, WA 98401-1837

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BY: DATE:
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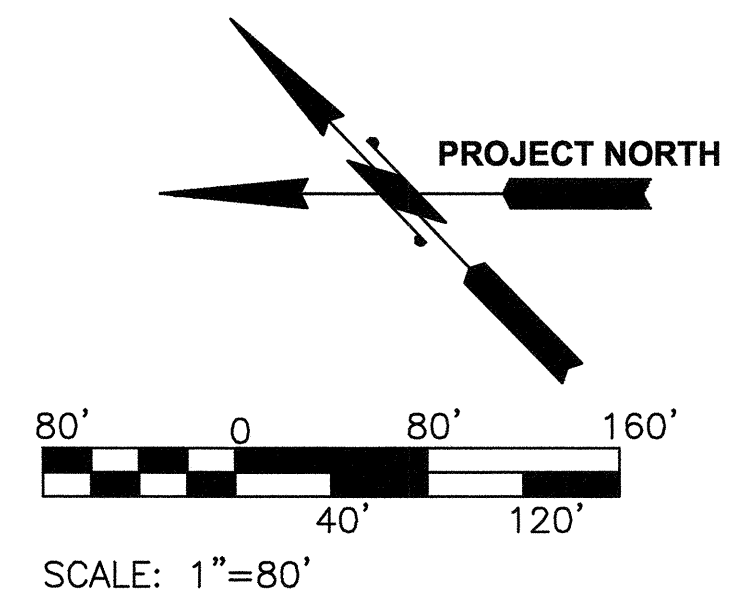
C4.2 SH 34 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT TEMPORARY NAVIGATION MARKER DETAILS				APPROVED:  2-6-15	SWK	2/6/2015		
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE	MDK	2/6/2015			
	DAT-HRZ: 091452	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kvarg Feb 04, 2015	PROJ. ENGR DATE	BY:	DATE:			
	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	MARK:	REVISION:	APPR:			
	PHASE: BID		TACOMA, WA 98401-1837						
									
				2407 North 21st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162					

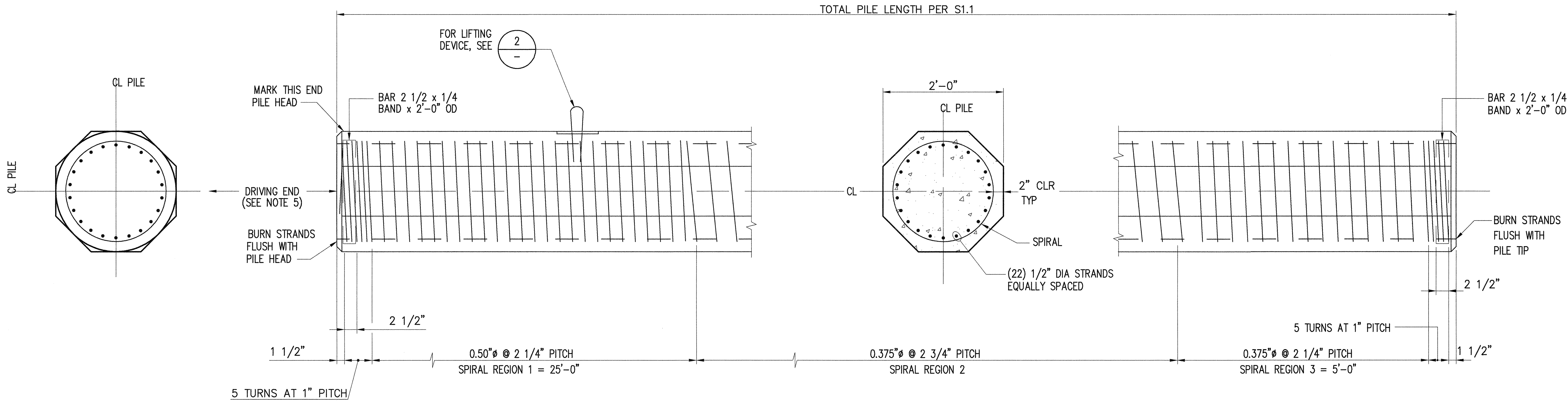
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1. EXISTING BATHYMETRY SHOWN. TEST PILES SHALL BE INSTALLED AFTER COMPLETION OF DREDGE WORK INDICATED ON DRAWING C1.1. SEE SPECIFICATIONS FOR ADDITIONAL TIMING RESTRICTIONS FOR TEST PILE INSTALLATION AND REMOVAL.
2. ALL TEST PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED.
3. ALL TEST PILES SHALL BE COMPLETELY EXTRACTED AND DISPOSED OF AFTER COMPLETION OF THE TEST PILE PROGRAM.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE TEST PILE PROGRAM.

TEST PILE SCHEDULE						
DESIGNATION	PILE TYPE	TIP ELEVATION	CUT-OFF ELEVATION	TOTAL PILE LENGTH	NORTHING	EASTING
⊕ TP-1	24" SOLID OCTAGONAL PRESTRESSED CONCRETE	-125	-	145	713582.04	1166334.56
⊕ TP-2	24" SOLID OCTAGONAL PRESTRESSED CONCRETE	-110	-	130	713307.68	1166577.50
⊕ TP-3	24" SOLID OCTAGONAL PRESTRESSED CONCRETE	-125	-	145	713068.73	1166984.65
⊕ TP-4	24" SOLID OCTAGONAL PRESTRESSED CONCRETE	-115	-	135	712807.25	1167433.54



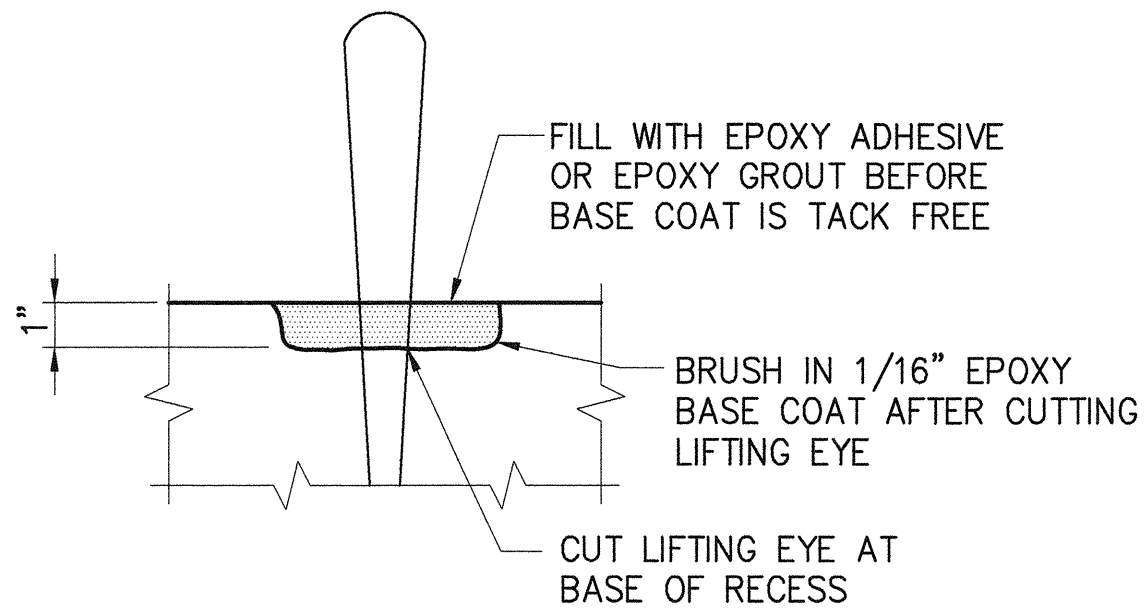


1
24" SOLID OCTAGONAL PRECAST
PRESTRESSED CONCRETE PILE
1"=1'-0"

NOTES:

- MINIMUM CONCRETE STRENGTHS ARE AS FOLLOWS:
 - ⊗ RELEASE F'_c = 4800 PSI
 - ⊗ DRIVING F'_c = 8000 PSI
 - ⊗ 28 DAYS F'_c = 8000 PSI
- 24" SOLID OCTAGONAL PRECAST PRESTRESSED PILE PROPERTIES:

SECTION AREA	477 IN ²
WEIGHT	524 LBS/FT
SECTION MODULUS	1513 IN ³
DESIGN PRESTRESS FORCE	578 KIPS
DESIGN PRESTRESS IN CONC	1211 PSI
- PRESTRESSING STEEL SHALL BE UNCOATED 270 KSI – 1/2" – 7 WIRE, LOW RELAXATION, STRAND CONFORMING TO ASTM A416
- FOR PILE TIP ELEVATIONS SEE S1.1.
- MARK DRIVING END OF ALL PILES CLEARLY AT PRECAST PLANT.
- PILES SHALL HAVE MARKS DESIGNATING THE SIZE, LENGTH, AND TEST PILE DESIGNATION AT THE PRECAST PLANT.
- SPIRAL REINFORCING MAY BE SPICED BY WRAPPING ONE AND ONE HALF TURNS OF SPIRAL AND TERMINATING WITH A 135° SEISMIC HOOK.
- SPIRAL REINFORCEMENT SHALL BE ASTM A82 SMOOTH OR DEFORMED.



NOTE:
LIFTING DEVICE AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR CONSIDERING ALL LOADS IMPARTED TO THE PILE (NORMAL AND PARALLEL TO THE LONGITUDINAL AXIS) BY THE RIGGING BEING USED. ALL MODES OF LIFTING (FABRICATION AND FIELD) SHALL BE CONSIDERED.

2
LIFTING EYE DETAIL
NTS

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2-6-15

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PRINTED BY:	drumma Feb 03, 2015
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TACOMA, WA 98401-1837	

PIER 4 PHASE 1

REMOVAL ACTION PROJECT

PRECAST CONCRETE PILE DETAILS

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1993	
PARCEL:	DRAWING SCALE:	AS NOTED

S1.2

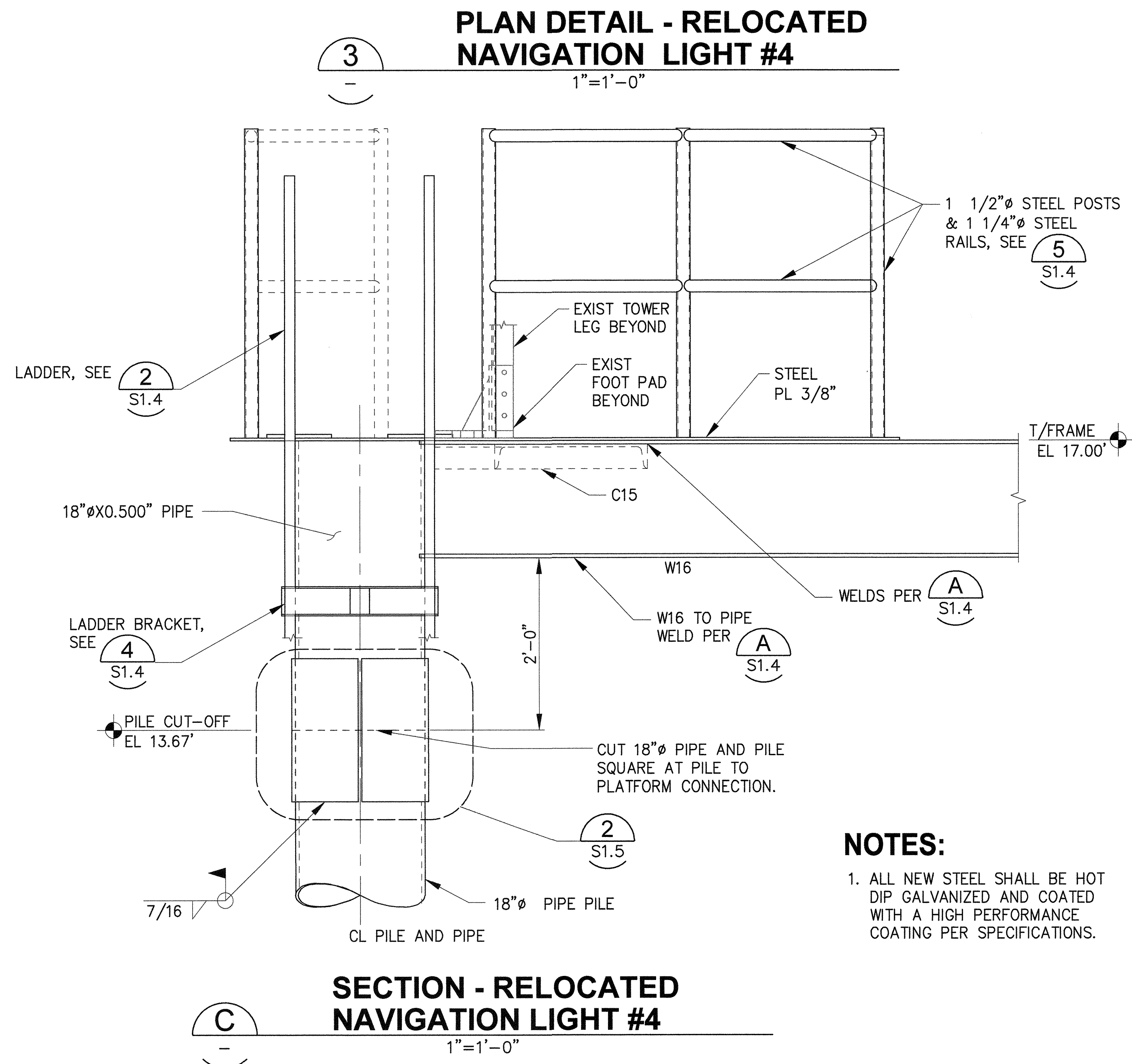
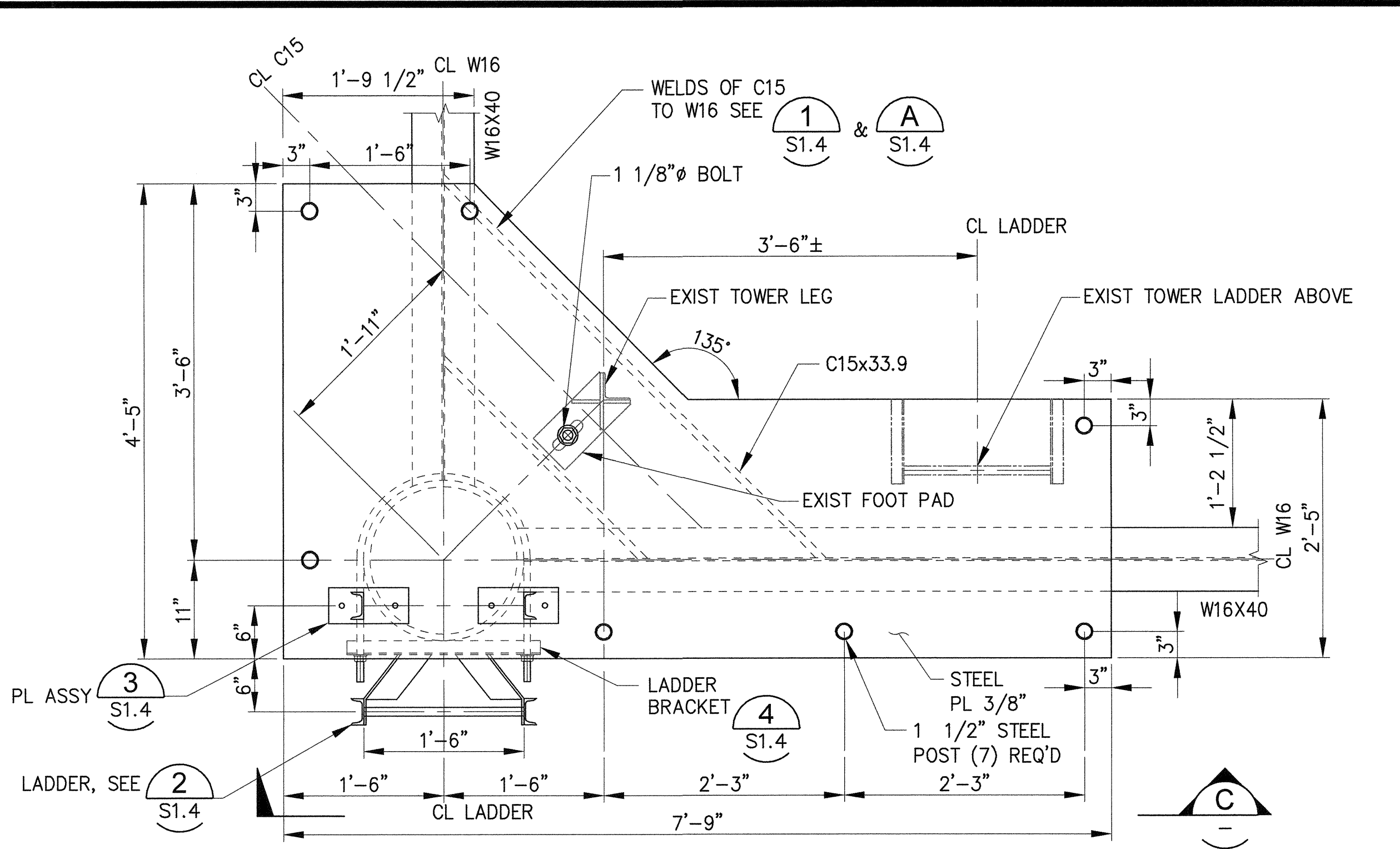
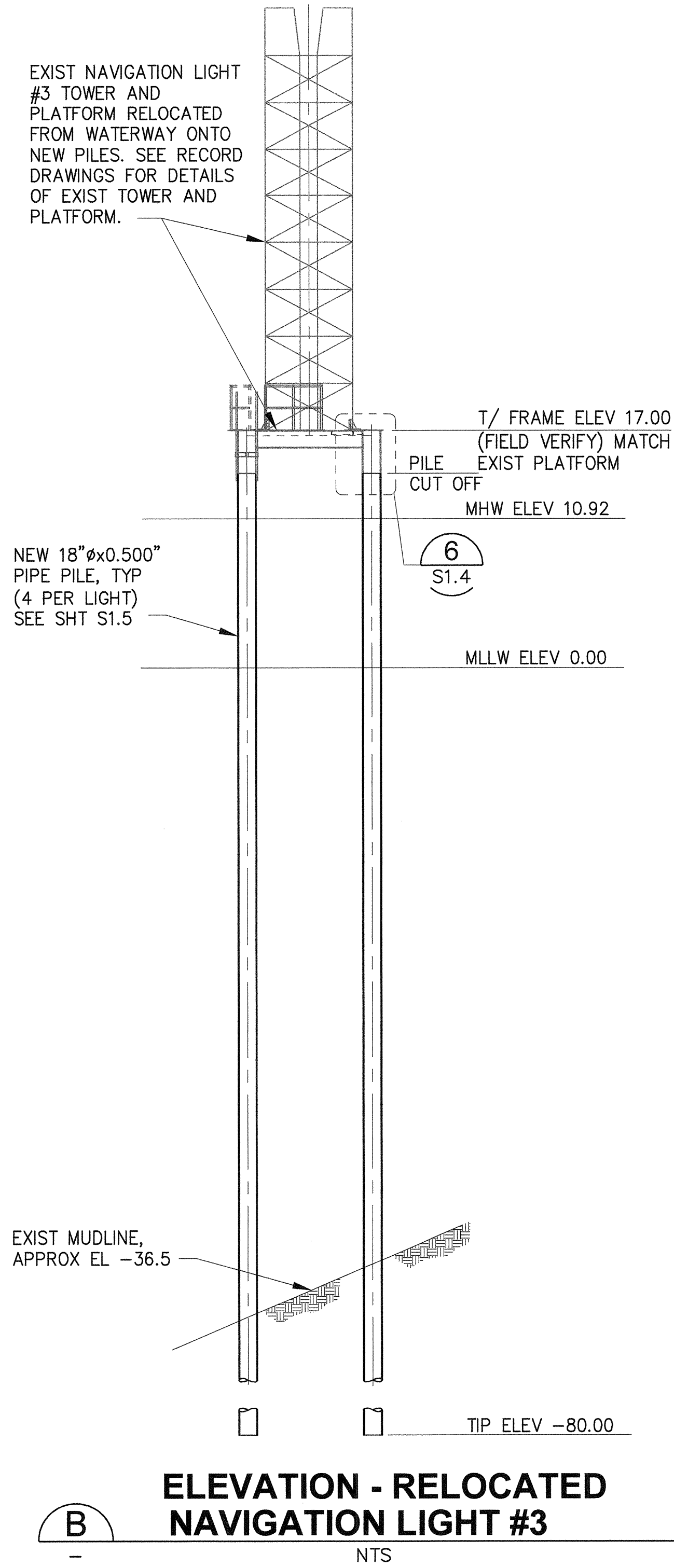
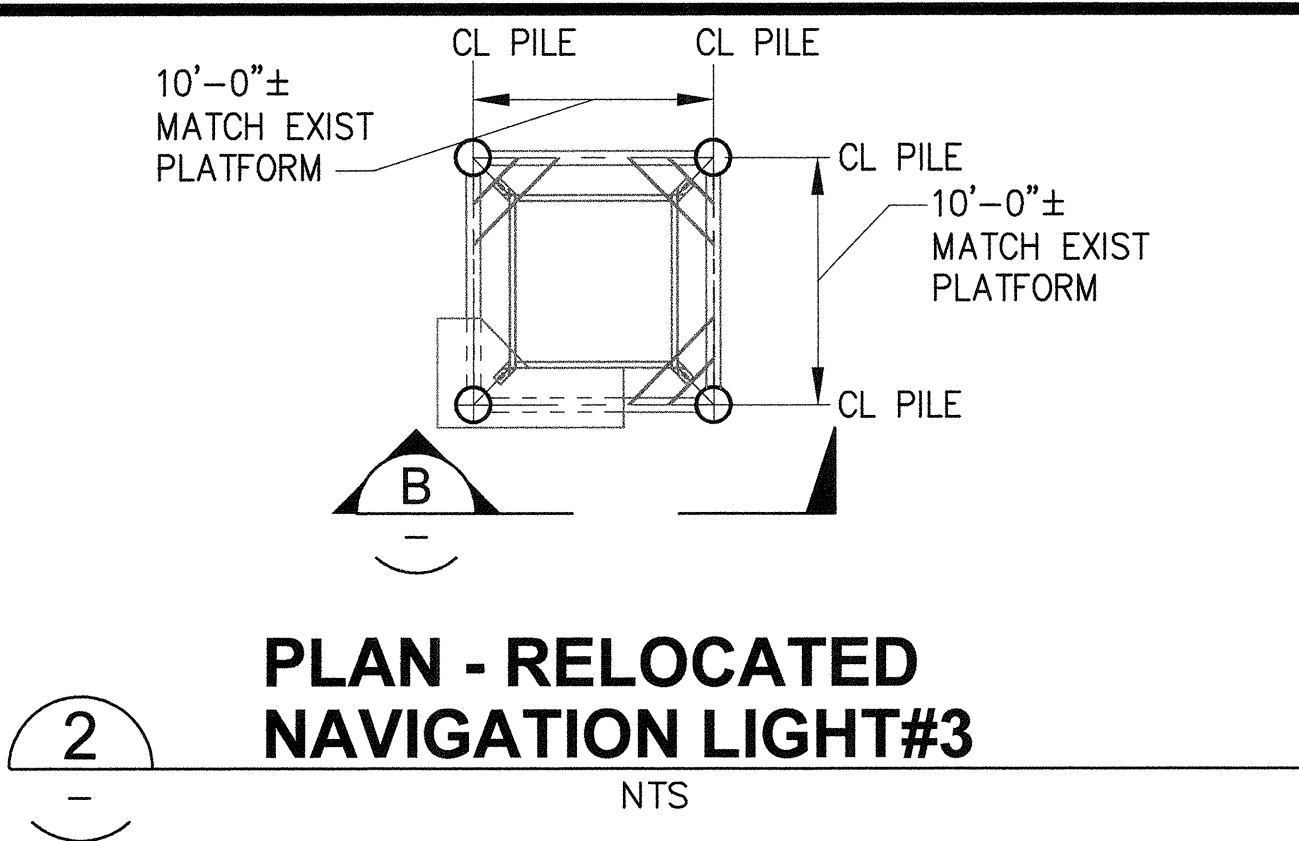
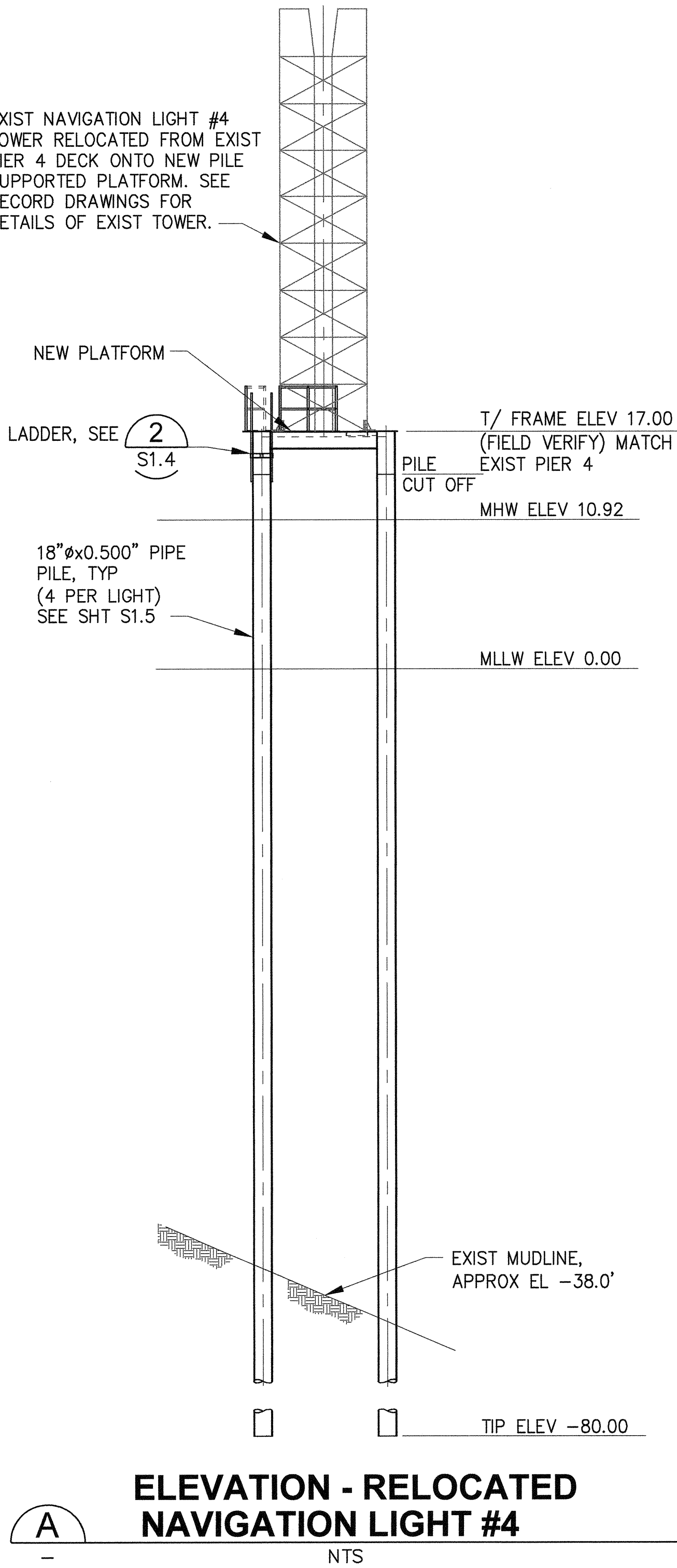
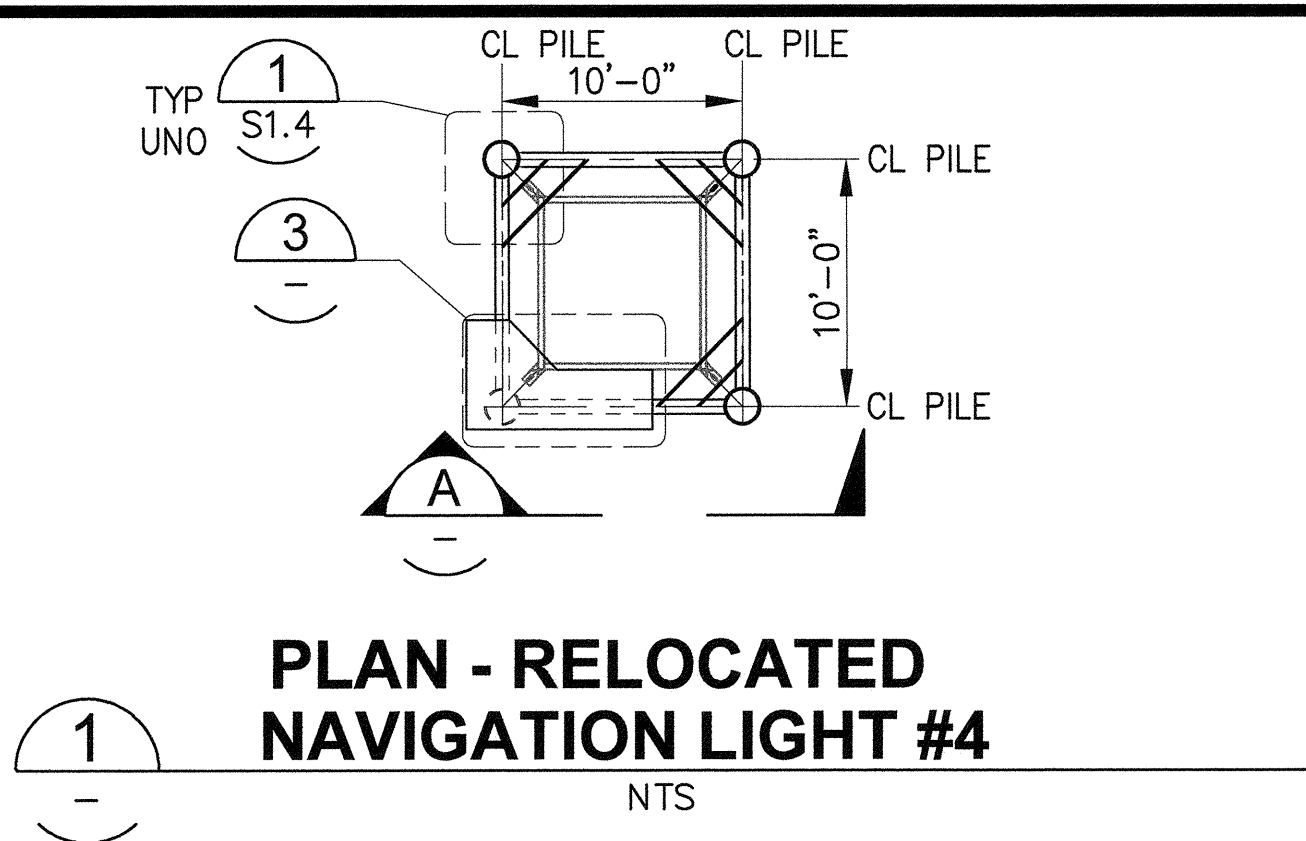
SH 36 OF 54

CONT/CONS:	069982
M. ID:	091452
PHASE:	BID

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BINDING EDGE

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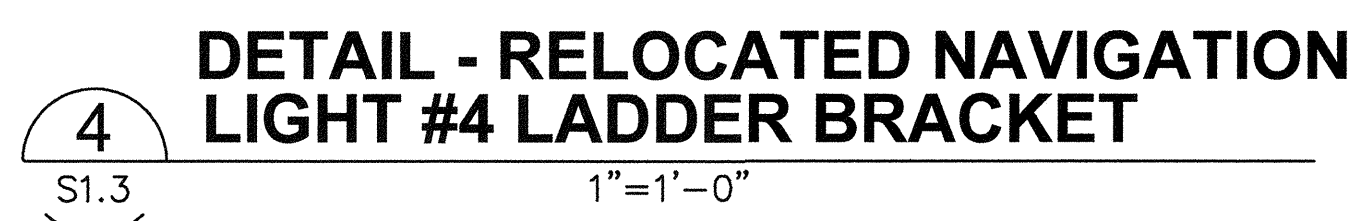
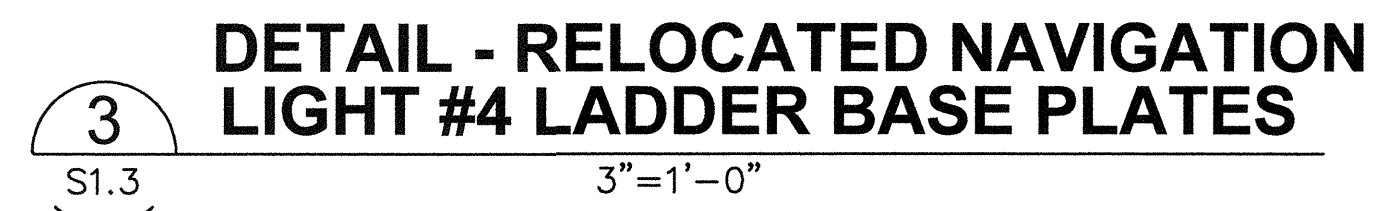
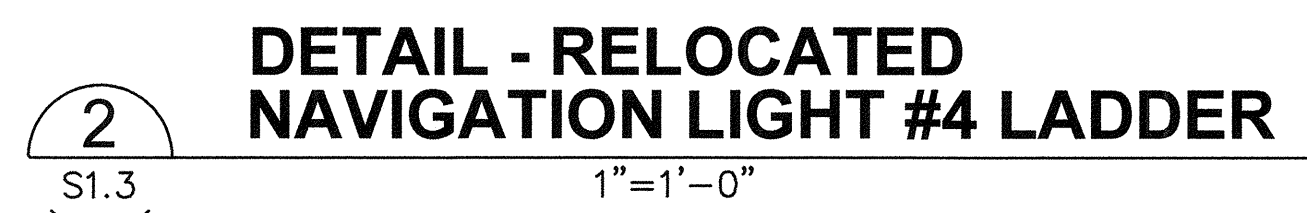
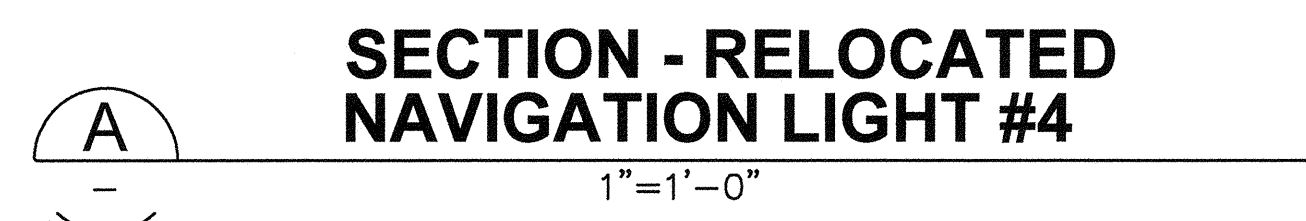


NOTES:

1. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED AND COATED WITH A HIGH PERFORMANCE COATING PER SPECIFICATIONS.

		2/6/15		
2007 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162		DATE	2/6/15	
		BY:		
P.O. BOX 187 TACOMA, WA 98401-0187		REVISION:		
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PRINTED BY: dmmrma Feb 03, 2015		REVISION:		
PORT ADDRESS: ONE SITCUM PLAZA		MARK:		
TACOMA, WA 98401-1837		REVISION:		
PIER 4 PHASE 1 REMOVAL ACTION PROJECT NAVIGATION LIGHT DETAILS - SHEET 1		DATE	2/6/15	
TOWNSHIP: 21N		SECTION: 27	DATE	2/6/15
RANGE: 3E		VERT: MLLW 19.39' @ Tide 22 1933	DATE	2/6/15
M. ID: 091452		PARCEL: WA83-SF	DATE	2/6/15
PHASE: BID		DATE	2/6/15	

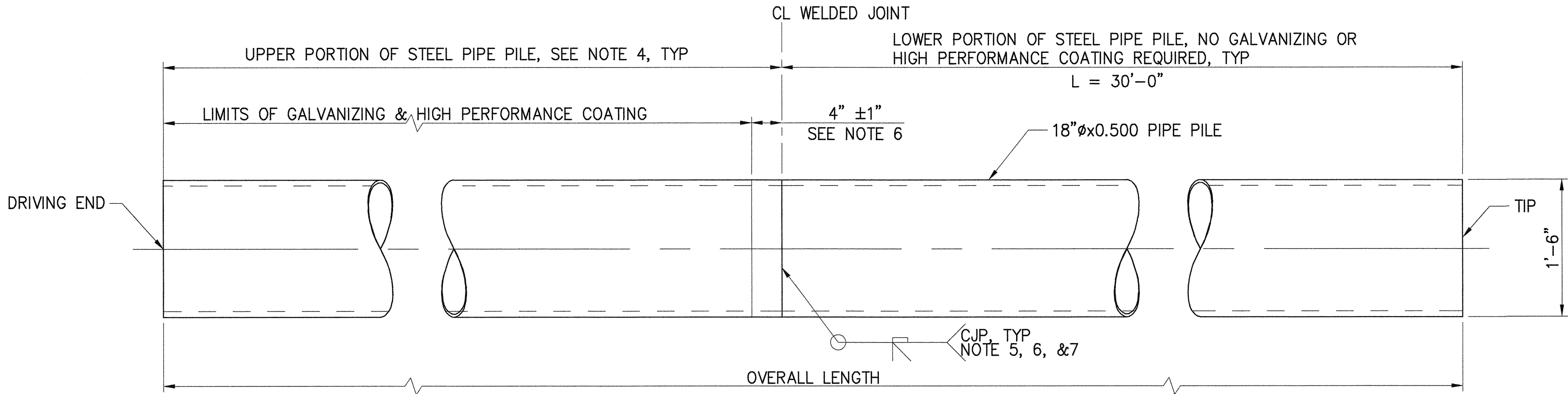
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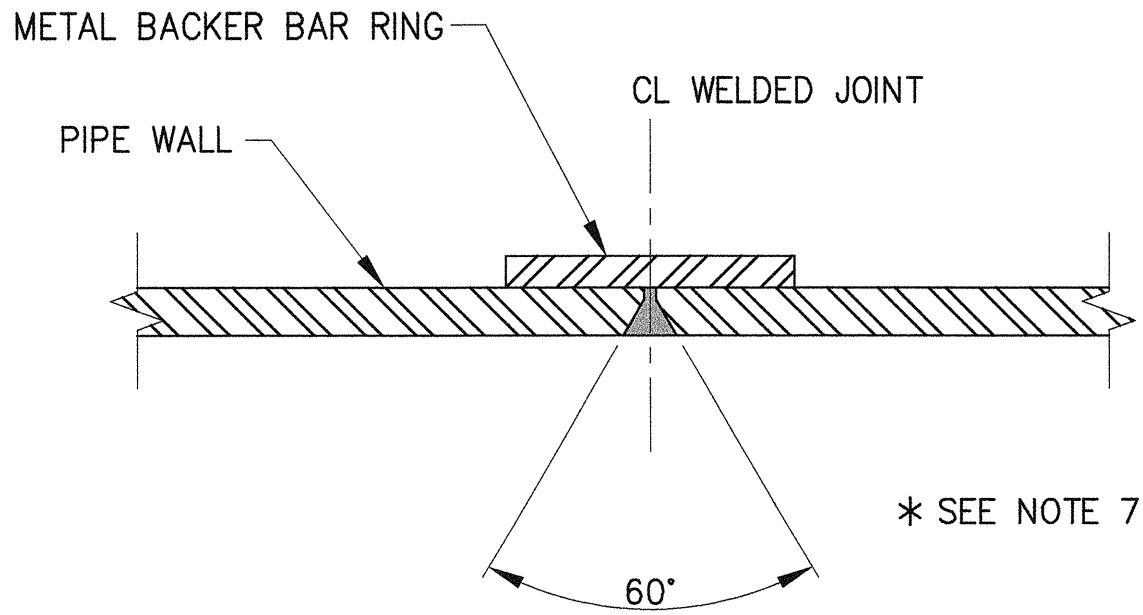
1. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED AND COATED WITH A HIGH PERFORMANCE COATING PER SPECIFICATIONS

NOTES:

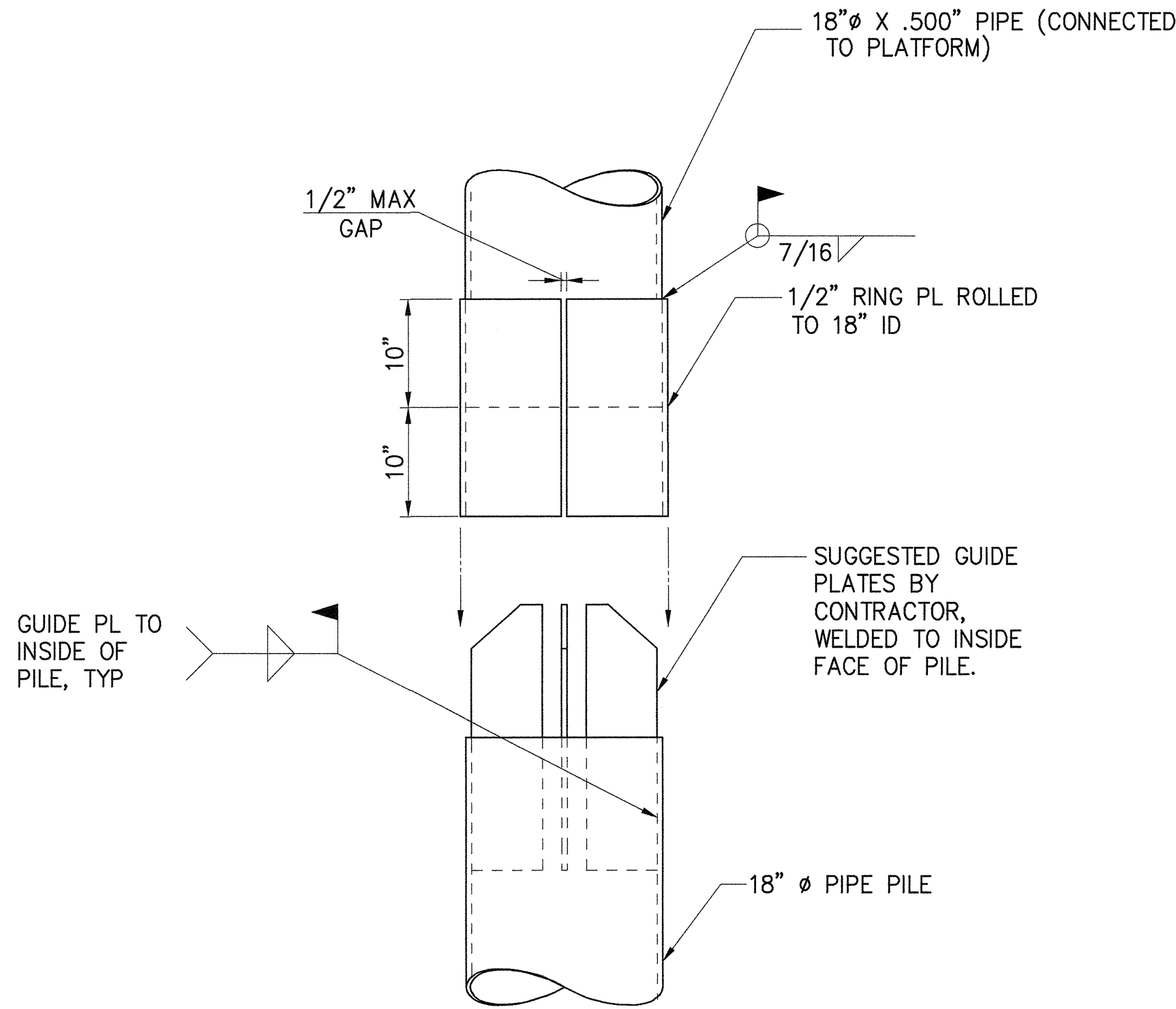
- 1. ALL STEEL PIPE PILES SHALL CONFORM TO THE STRUCTURAL NOTES AND SPECIFICATIONS.
- 2. ALL PILES SHALL BE FABRICATED AND COATED PRIOR TO DELIVERY ON SITE.
- 3. STEEL PIPE PILING SHALL CONFORM TO ASTM A252, GR 2, Fy = 50 KSI MIN.
- 4. UPPER PORTION OF STEEL PIPE PILE TO BE GALVANIZED AND COATED WITH A HIGH PERFORMANCE COATING IN ACCORDANCE WITH THE SPECIFICATIONS.
- 5. WELDING SHALL CONFORM TO "STRUCTURAL WELDING CODE – STEEL", AWS D1.1.
- 6. HOLD BACK COATING FROM CL WELDED JOINT ON INSIDE AND OUTSIDE OF PIPE FOR WELDING.
- 7. MANUFACTURER MAY USE THE ALTERNATE CJP TUBULAR BUTT JOINT. ALL CJP TUBULAR BUTT JOINTS SHALL HAVE A WPS QUALIFIED IN ACCORDANCE WITH AWS D1.1 SECTION 4.



1
S1.3
STEEL PIPE PILE DETAIL
1"=1'-0"



ALTERNATE CJP TUBULAR BUTT JOINT
NTS

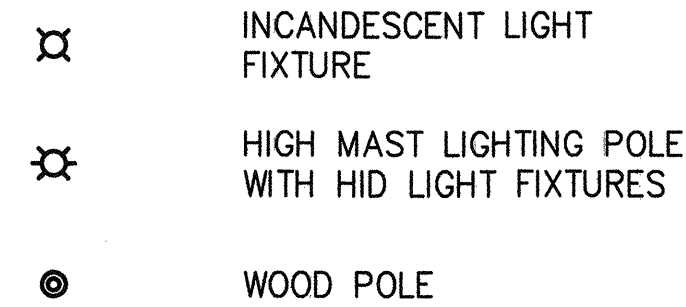


2
S1.3,S1.4
PIPE TO PILE CONNECTION DETAIL
1"=1'-0"

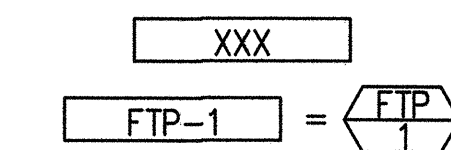
S1.5 SH 39 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT STEEL PIPE PILE DETAILS				APPROVED: <i>[Signature]</i> 2-6-15	SEK 2/6/15
	CONTRACT/CONS: 069982	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE: 2-6-15	CHECKED BY: TAH
	M. ID: 091452	DAT-HRZ: WA83-SF	VERT: MLW 19.39 @ Tide 22 1933	PRINTED BY: dmurphy	PROJ. ENGR DATE: 2/6/15	DATE: 2/6/15
	PHASE: BID	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		
kpff 3407 North 24th Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98407 (253) 393-5841		MARK: REVISION: BY: APPR: DATE:		

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DRAWING CONVENTIONS



- - -BP→ HEAVY DASHED LINE
 - - -T→ INDICATES ELECTRICAL OR
 COMMUNICATIONS ITEMS TO
 BE REMOVED



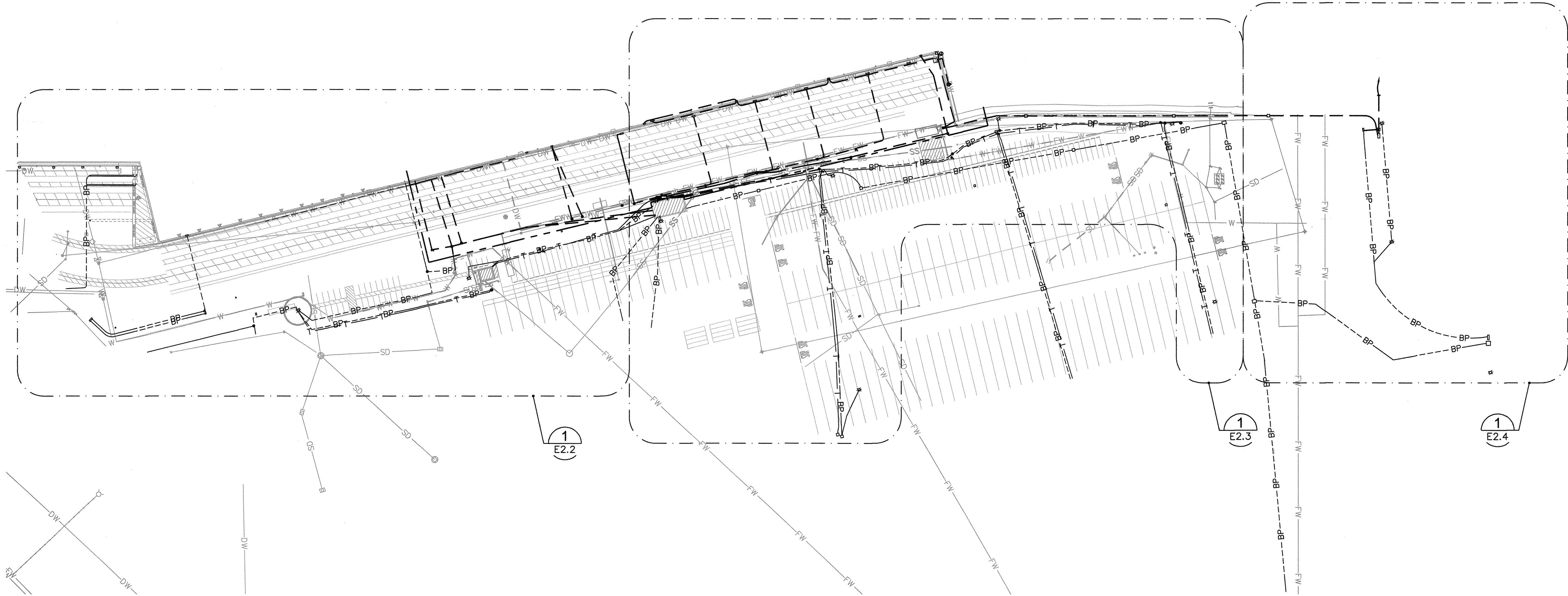
CONDUIT DESIGNATIONS

GENERAL NOTES

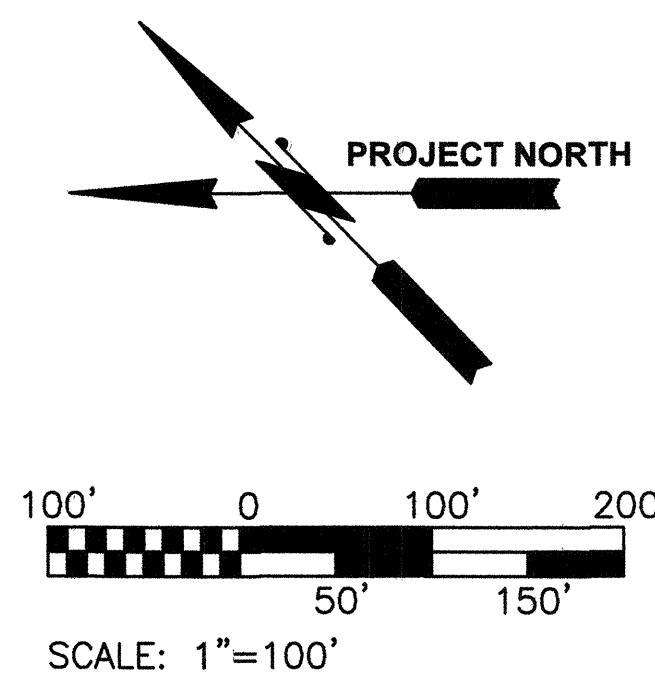
A	AMMETER, AMPERE	E	EMPTY, EXISTING	LC	LIGHTING CONTACTOR	SHT	SHEET
AF	AMP FUSE	EF	EXHAUST FAN	LCD	LIQUID CRYSTAL DISPLAY	SUB	SUBSTATION
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRICAL	LED	LIGHT EMITTING DIODE	SUPV	SUPERVISOR
AFG	ABOVE FINISHED GRADE	ELEV	ELEVATION, ELEVATOR			SW	SWITCH
AIC	AMPERE INTERRUPTING CAPACITY	EMT	ELECTRICAL METALLIC EMT TUBING	M	MAGNETIC COIL	SYM	SYMMETRICAL
ANN	ANNUNCIATOR	EXIST	EXISTING	MCC	MOTOR CONTROL CENTER		
AS	AMP SWITCH			MH	MANHOLE, METAL HALIDE	T	THERMOSTAT
ASYM	ASYMMETRICAL	F	FAHRENHEIT	MIN	MINIMUM	TB	TERMINAL BLOCK,
ATS	AUTOMATIC TRANSFER SWITCH	FACP	FIRE ALARM CONTROL PANEL	MOV	METAL OXIDE VARISTOR		TRANSFORMER BANK
AUX	AUXILIARY	F,FU	FUSE	MPZ	MINI POWER ZONE	TEL	TELEPHONE
		FLUOR	FLUORESCENT FLUOR	MTG	MOUNTING	THRU	THROUGH
BF	BALLAST FACTOR	FSA	FIRE SYSTEM ANUNCIATOR	N	NEUTRAL, NEW	TP	TACOMA POWER
BLDG	BUILDING	FT	FOOT	NC	NORMALLY CLOSED	TTB	TELEPHONE TERMINAL BOARD
BRKR	BREAKER	FVNR	FULL VOLTAGE NON-REVERSING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	TYP	TYPICAL
						TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
C	CONDUIT			NEUT	NEUTRAL		
CB	CIRCUIT BREAKER	G,GRD	GROUND	NP	NORMALLY OPEN, NUMBER	UG	UNDERGROUND
CCTV	CLOSED CIRCUIT TELEVISION	GA	GAUGE	NEC		UH	UNIT HEATER
CKT	CIRCUIT	GALV	GALVANIZED	NREC	NAMEPLATE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CL	CENTER LINE	GFI	GROUND FAULT INTERRUPTER		NON-RESIDENTIAL ENERGY CODE		
CLF	CURRENT LIMITING FUSE	GRC,GRS	GALVANIZED RIGID STEEL			V	VOLTMETER, VOLT
CLR	CLEAR						
CM	CIRCULAR MILS	HH	HANDHOLE	Ø	PHASE, DIAMETER		
C.O.	CONDUIT ONLY	HP	HORSEPOWER	P	PANEL, POLE	W	WIRE, WATT
COMM	COMMUNICATIONS	HPS	HIGH PRESSURE SODIUM	PB	PUSH-BUTTON	W/	WITH
CONC	CONCRETE	HWH	HOT WATER HEATER	PF	POWER FACTOR	WHD	WATTHOUR DEMAND METER
CONT	CONTINUED			PH	PHASE	W/O	WITHOUT
CPT	CONTROL POWER TRANSFORMER	IC	INTERRUPTING CAPACITY	PIV	POST INDICATOR VALVE	WP	WEATHERPROOF
				PNL	PANEL		
CR	CONTROL RELAY	J-BOX	JUNCTION BOX	POMB	POSITION ORIENTED MOGUL	XFMR	TRANSFORMER
CT	CURRENT TRANSFORMER				BASE (SOCKET)		
CTRL	CONTROL	K	KEY OPERATOR	PS	PRESSURE SWITCH		
CU	COPPER	KCM	THOUSAND CIRCULAR MILS	PSE	PUGET SOUND ENERGY		
		KV	KILOVOLT(S)	PVC	POLYVINYL CHLORIDE		
DDC	DEDICATED DIALER CIRCUIT	KVA	KILOVOLT AMPERE(S)				
DEM	DEMAND	KVAR	KILOVAR(S)	R	RELAY		
DEMO	DEMOLITION	KVARH	KILOVARHOURS	RGS	RIGID GALVANIZED STEEL		
DIM	DIMENSION	KW	KILOWATT(S)	RM	ROOM		
DISC	DISCONNECT	KWHR	KILOWATTHOURS				
DN	DOWN			SCHED	SCHEDULE		
DS	DISCONNECT SWITCH			SD	SMOKE DETECTOR		
DWG	DRAWING						

1. CONTRACTOR TO VERIFY ALL WIRING IN VAULTS, PULLBOXES, ETC. WITHIN AREA OF DEMOLITION TO VERIFY IT IS DE-ENERGIZED PRIOR TO PROCEEDING WITH ANY DEMOLITION WORK.
2. SEE GENERAL NOTES ON SHEET G3.2.

E1.1 SH 40 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES				APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE <u>2-6-15</u> PRINTED BY: <u>Curtis Feb 05, 2015</u> PORT ADDRESS: <u>ONE SITCOM PLAZA</u>	SAB CHECKED BY DATE HAS 2/5/15 PROJ. ENGR DATE	2/5/15 2/5/15 DATE DATE
	CONTRACT/CONS: 0699882 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N DAT-HRZ: WA83-SF	RANGE: 3E VERT: MLLW 19.39' @ Tide	SECTION: 27 DATE: 22 1933	DRAWING SCALE: AS NOTED PARCEL: TACOMA, WA 98401-1837		

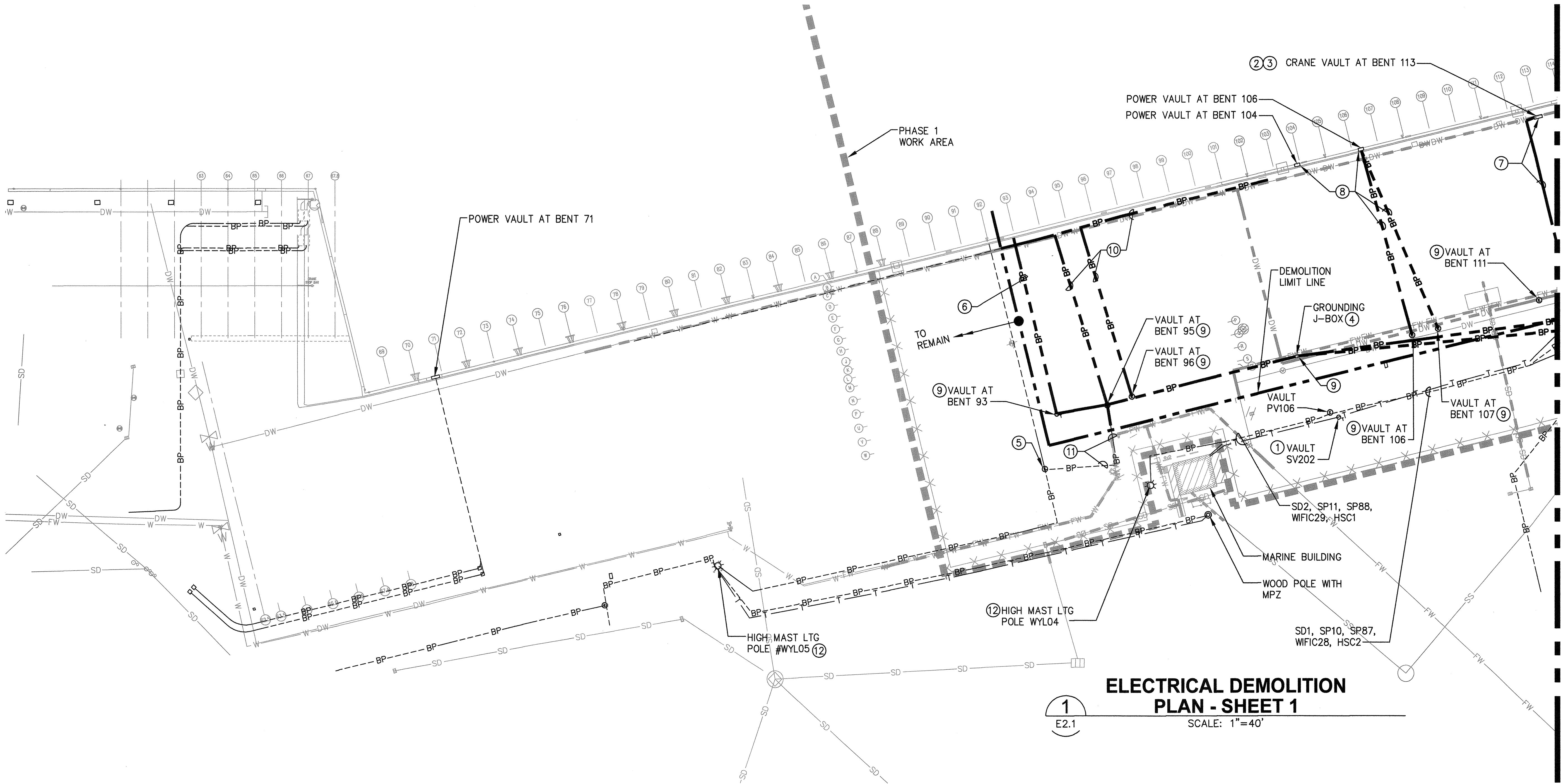


SITE ELECTRICAL DEMOLITION KEY PLAN
SCALE: 1"=100'



E2.1 SH 41 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT SITE ELECTRICAL DEMOLITION KEY PLAN					ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-6022 FAX (206) 243-5205		 P.O. BOX 1837 TACOMA, WA 98401 (206) 383-5841	
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DATE: 2/5/15		MARK:	REVISION:	BY:	DATE:
	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: Curtis Feb 05, 2015	CHECKED BY: HAS		APPR:			
	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837	SAB					

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ELECTRICAL DEMOLITION
PLAN - SHEET 1

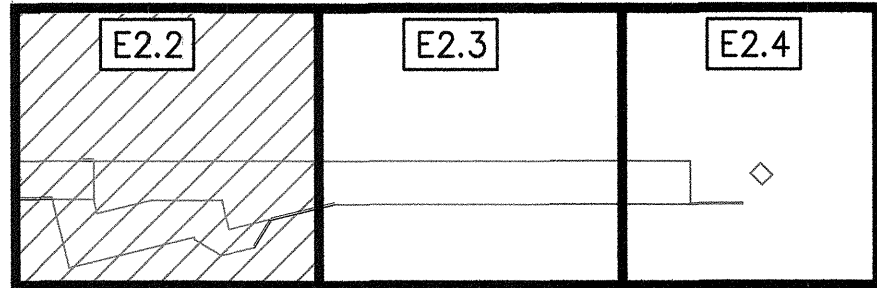
SCALE: 1"=40'

KEY NOTES

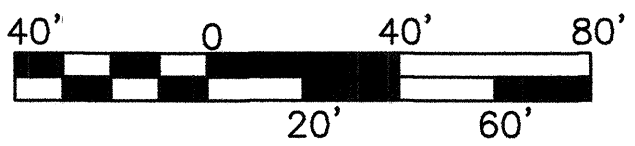
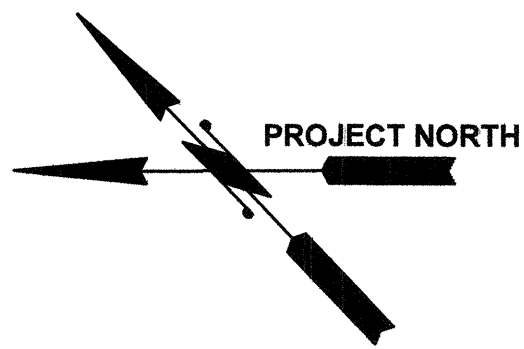
- CUT (4) FIBER OPTIC CABLES AND (1) TELEPHONE CABLE WHERE CABLES ENTER SOUTH WALL OF THE VAULT. REMOVE CABLES BETWEEN VAULT AND TERMINATION LOCATION AT COMMUNICATIONS RACK ON SECOND FLOOR OF MARINE BUILDING.
- COORDINATE WITH TACOMA POWER FOR DISCONNECTING ELECTRICAL SERVICE AT THE PAD-MOUNTED SWITCHGEAR AT SUBSTATION #8410 THAT SERVES THE 1500KVA, 13.8KV-4.16KV TRANSFORMER. SEE SHEET E2.5 FOR THE SWITCHGEAR LOCATION AND SHEET E4.1 FOR THE SUBSTATION #8410 ONE-LINE DIAGRAM.
- DISCONNECT 5KV CABLES AT CRANE SWITCH AT SUBSTATION #8410 AND DISCONNECT LOAD END OF CABLES AT CRANE VAULT. SEE SHEET E2.5 FOR LOCATION OF 5KV CRANE SWITCH.
- SEE SHEET E3.5 FOR PROVIDING GROUND ROD IN 480V PULLBOX AT SUBSTATION #8410. AFTER GROUND ROD INSTALLATION AND CONNECTION OF GROUND WIRES TO GROUND ROD, DISCONNECT GROUND WIRES IN GROUNDING J-BOX.
- AFTER TEMPORARY CONDUIT AND WIRE ARE ROUTED FROM HIGH MAST LIGHTING POLE #WYL04 TO THIS VAULT FOR SERVICE TO HIGH MAST LIGHTING FIXTURES (YARD AND SECURITY), CUT THE EXISTING WIRES IN THE VAULT ROUTED TO HIGH MAST LIGHTING POLE #WYL05 AND SPLICE THE TEMPORARY WIRES TO THE WIRES ROUTED TO POLE #WYL05. SEE SHEET E3.2 FOR TEMPORARY WIRING TO VAULT.
- REMOVE ABANDONED CONDUIT AND WIRE IN PIER STRUCTURE.
- REMOVE CRANE VAULT, AND ASSOCIATED CONDUIT AND CABLE IN PIER STRUCTURE. ASSUME VAULT IS 6'x6'x6'.
- REMOVE ABANDONED POWER VAULT, AND ASSOCIATED CONDUIT AND WIRE IN PIER STRUCTURE. ASSUME VAULT IS 6'x6'x6'.
- REMOVE VAULT, AND ASSOCIATED DUCTBANKS AS INDICATED. ASSUME VAULT IS 6'x6'x6'.
- REMOVE ABANDONED CONDUITS, WIRES AND CABLES.
- REMOVE WIRES FROM DUCTBANK, AND ABANDON DUCTBANK IN PLACE.
- HIGH MAST LIGHTING FIXTURES TO REMAIN OPERATIONAL EVERY NIGHT. IF CONTRACTOR NEEDS TO SHUTDOWN NORMAL POWER TO THE FIXTURES, CONTRACTOR SHALL SUPPLY BACKUP POWER SUPPLY TO MAINTAIN SERVICE TO THE FIXTURES.

GENERAL NOTES

- REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
- SEE E6 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
- ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 1 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.



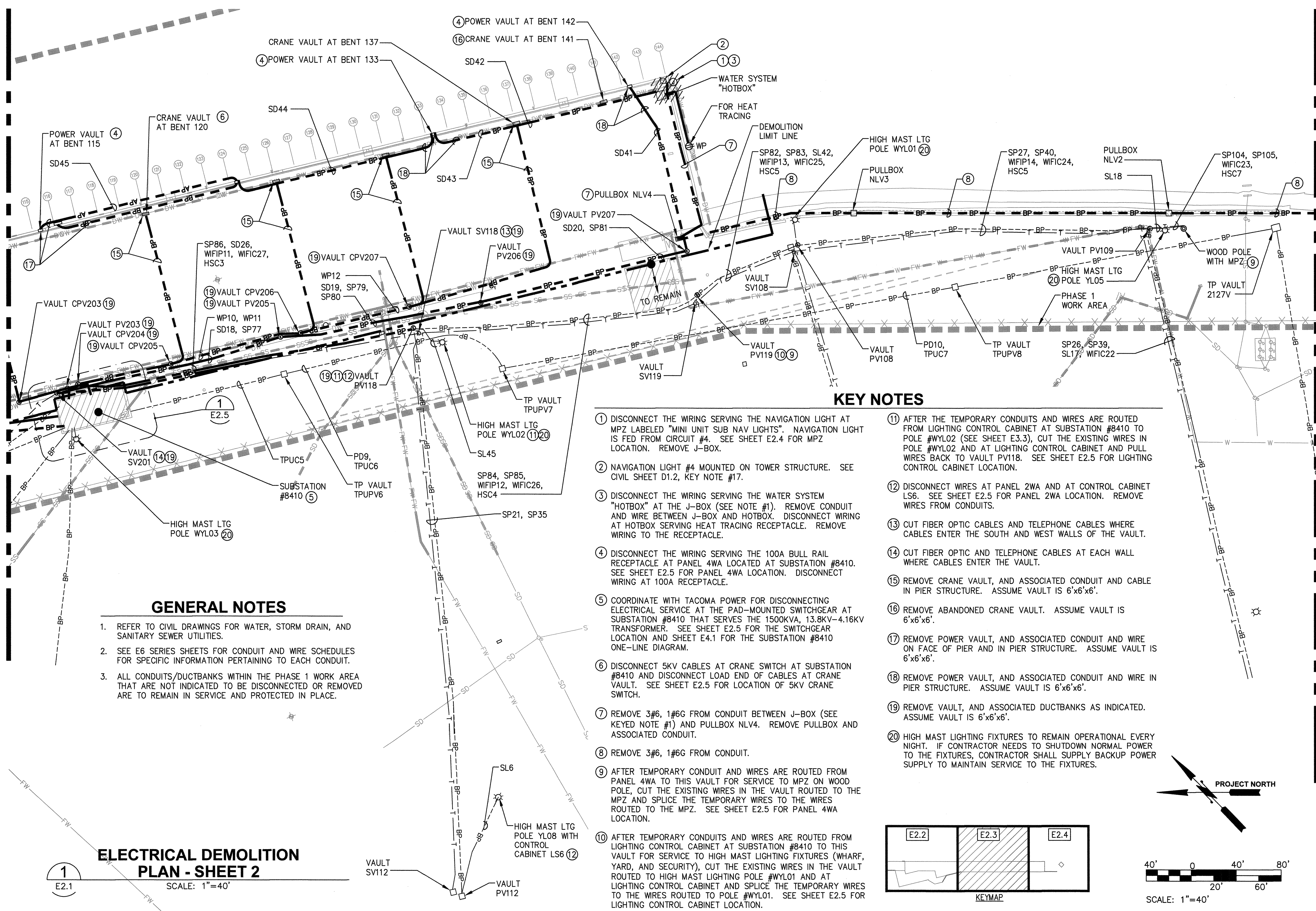
KEYMAP



SCALE: 1"=40'

MATCH LINE SEE SHEET E2.3

E2.2 SH 42 OF 54	PIER 4 PHASE 1										
	REMOVAL ACTION PROJECT										
	ELECTRICAL DEMOLITION PLAN - SHEET 1										
	APPROVED: <i>[Signature]</i>										
	2-6-15										
CONT/CONS: 069982	TOWNSHIP: 21N		RANGE: 3E		SECTION: 27		SAB			2/5/15	
	DAT-HRZ: WA83-SF		VERTI: MLLW 19.39' @ Tide 22 1933		DIRECTOR ENG. DATE			CHECKED BY		DATE	
	PARCEL:		DRAWING SCALE: AS NOTED		PRINTED BY: Curtis Feb 05, 2015			HAS		2/5/15	
					PORT ADDRESS: ONE SITCUM PLAZA			PROJ. ENGR		DATE	
					TACOMA, WA 98401-1837						
ELCON ASSOCIATES, INC											
ENGINEERS - CONSULTANTS											
16300 CHRISTENSEN ROAD, SUITE 330											
SEATTLE, WASHINGTON 98168											
TEL (206) 243-5022											
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GENERAL NOTES

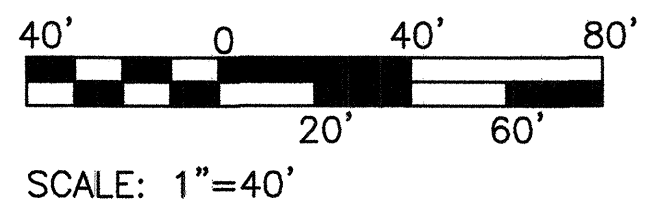
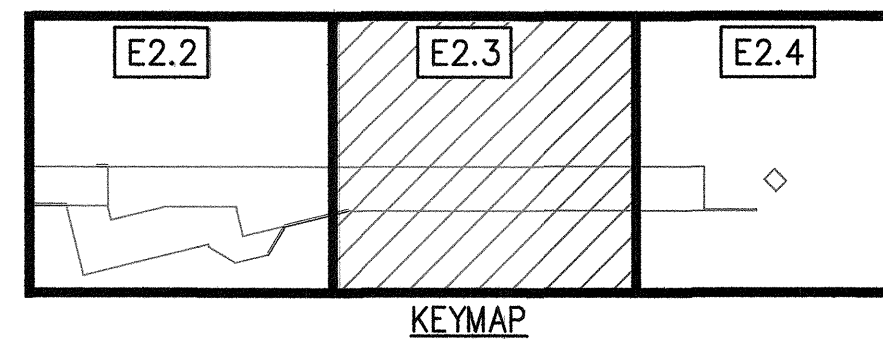
1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E6 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 1 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

ELECTRICAL DEMOLITION
PLAN - SHEET 2

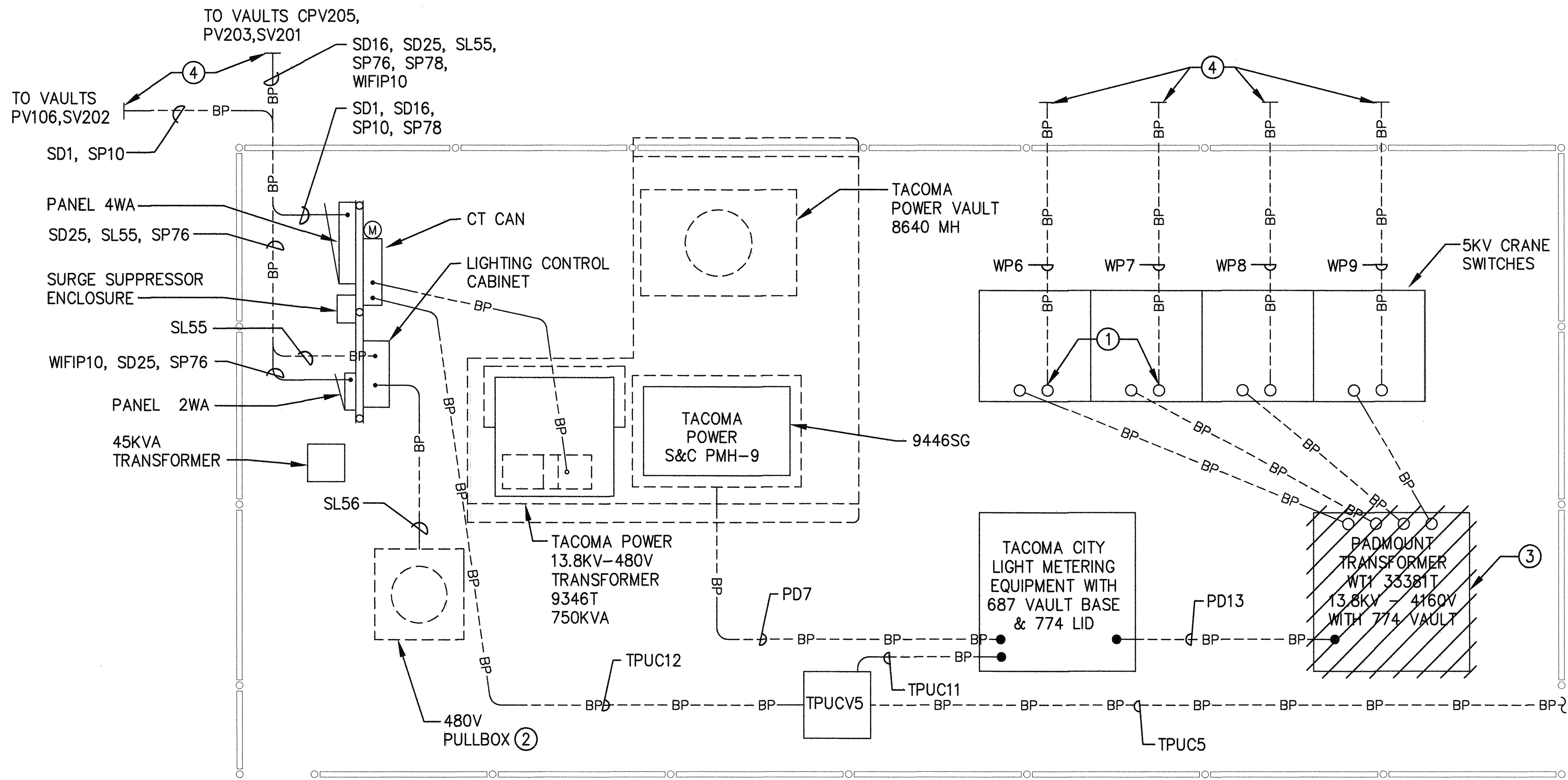
SCALE: 1"=40'

KEY NOTES

1. DISCONNECT THE WIRING SERVING THE NAVIGATION LIGHT AT MPZ LABELED "MINI UNIT SUB NAV LIGHTS". NAVIGATION LIGHT IS FED FROM CIRCUIT #4. SEE SHEET E2.4 FOR MPZ LOCATION. REMOVE J-BOX.
2. NAVIGATION LIGHT #4 MOUNTED ON TOWER STRUCTURE. SEE CIVIL SHEET D1.2, KEY NOTE #17.
3. DISCONNECT THE WIRING SERVING THE WATER SYSTEM "HOTBOX" AT THE J-BOX (SEE NOTE #1). REMOVE CONDUIT AND WIRE BETWEEN J-BOX AND HOTBOX. DISCONNECT WIRING AT HOTBOX SERVING HEAT TRACING RECEPTACLE. REMOVE WIRING TO THE RECEPTACLE.
4. DISCONNECT THE WIRING SERVING THE 100A BULL RAIL RECEPTACLE AT PANEL 4WA LOCATED AT SUBSTATION #8410. SEE SHEET E2.5 FOR PANEL 4WA LOCATION. DISCONNECT WIRING AT 100A RECEPTACLE.
5. COORDINATE WITH TACOMA POWER FOR DISCONNECTING ELECTRICAL SERVICE AT THE PAD-MOUNTED SWITCHGEAR AT SUBSTATION #8410 THAT SERVES THE 1500KVA, 13.8KV-4.16KV TRANSFORMER. SEE SHEET E2.5 FOR THE SWITCHGEAR LOCATION AND SHEET E4.1 FOR THE SUBSTATION #8410 ONE-LINE DIAGRAM.
6. DISCONNECT 5KV CABLES AT CRANE SWITCH AT SUBSTATION #8410 AND DISCONNECT LOAD END OF CABLES AT CRANE VAULT. SEE SHEET E2.5 FOR LOCATION OF 5KV CRANE SWITCH.
7. REMOVE 3#6, 1#6G FROM CONDUIT BETWEEN J-BOX (SEE KEYED NOTE #1) AND PULLBOX NLV4. REMOVE PULLBOX AND ASSOCIATED CONDUIT.
8. REMOVE 3#6, 1#6G FROM CONDUIT.
9. AFTER TEMPORARY CONDUIT AND WIRES ARE ROUTED FROM PANEL 4WA TO THIS VAULT FOR SERVICE TO MPZ ON WOOD POLE, CUT THE EXISTING WIRES IN THE VAULT ROUTED TO THE MPZ AND SPLICE THE TEMPORARY WIRES TO THE WIRES ROUTED TO THE MPZ. SEE SHEET E2.5 FOR PANEL 4WA LOCATION.
10. AFTER TEMPORARY CONDUITS AND WIRES ARE ROUTED FROM LIGHTING CONTROL CABINET AT SUBSTATION #8410 TO THIS VAULT FOR SERVICE TO HIGH MAST LIGHTING FIXTURES (WHARF, YARD, AND SECURITY), CUT THE EXISTING WIRES IN THE VAULT ROUTED TO HIGH MAST LIGHTING POLE #WYL01 AND AT LIGHTING CONTROL CABINET AND SPLICE THE TEMPORARY WIRES TO THE WIRES ROUTED TO POLE #WYL01. SEE SHEET E2.5 FOR LIGHTING CONTROL CABINET LOCATION.
11. AFTER THE TEMPORARY CONDUITS AND WIRES ARE ROUTED FROM LIGHTING CONTROL CABINET AT SUBSTATION #8410 TO POLE #WYL02 (SEE SHEET E3.3), CUT THE EXISTING WIRES IN POLE #WYL02 AND AT LIGHTING CONTROL CABINET AND PULL WIRES BACK TO VAULT PV118. SEE SHEET E2.5 FOR LIGHTING CONTROL CABINET LOCATION.
12. DISCONNECT WIRES AT PANEL 2WA AND AT CONTROL CABINET LS6. SEE SHEET E2.5 FOR PANEL 2WA LOCATION. REMOVE WIRES FROM CONDUITS.
13. CUT FIBER OPTIC CABLES AND TELEPHONE CABLES WHERE CABLES ENTER THE SOUTH AND WEST WALLS OF THE VAULT.
14. CUT FIBER OPTIC AND TELEPHONE CABLES AT EACH WALL WHERE CABLES ENTER THE VAULT.
15. REMOVE CRANE VAULT, AND ASSOCIATED CONDUIT AND CABLE IN PIER STRUCTURE. ASSUME VAULT IS 6'x6'x6'.
16. REMOVE ABANDONED CRANE VAULT. ASSUME VAULT IS 6'x6'x6'.
17. REMOVE POWER VAULT, AND ASSOCIATED CONDUIT AND WIRE ON FACE OF PIER AND IN PIER STRUCTURE. ASSUME VAULT IS 6'x6'x6'.
18. REMOVE POWER VAULT, AND ASSOCIATED CONDUIT AND WIRE IN PIER STRUCTURE. ASSUME VAULT IS 6'x6'x6'.
19. REMOVE VAULT, AND ASSOCIATED DUCTBANKS AS INDICATED. ASSUME VAULT IS 6'x6'x6'.
20. HIGH MAST LIGHTING FIXTURES TO REMAIN OPERATIONAL EVERY NIGHT. IF CONTRACTOR NEEDS TO SHUTDOWN NORMAL POWER TO THE FIXTURES, CONTRACTOR SHALL SUPPLY BACKUP POWER SUPPLY TO MAINTAIN SERVICE TO THE FIXTURES.



ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205	DATE:	
	APPR:	
	BY:	
	REVISION:	
	MARK:	
	REVISION:	
	BY:	
	DATE:	
PIER 4 PHASE 1 REMOVAL ACTION PROJECT ELECTRICAL DEMOLITION PLAN - SHEET 2	SAB	2/5/15
	CHECKED BY	DATE
	HAS	2/5/15
	DATE	2/5/15
E2.3 SH 43 OF 54	DIRECTOR	2-6-15
	ENG. DATE	2-6-15
	PRINTED BY:	Curtis Feb 05, 2015
	PORT ADDRESS:	ONE SITCOM PLAZA
CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP:	21N
	RANGE:	3E
	SECTION:	27
	DATE-HRZ:	WAB3-SF
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	DRAWING SCALE:	AS NOTED
	TACOMA, WA	98401-1837



1
E2.3
ENLARGED ELECTRICAL DEMOLITION
PLAN - SUBSTATION #8410
NO SCALE

GENERAL NOTES

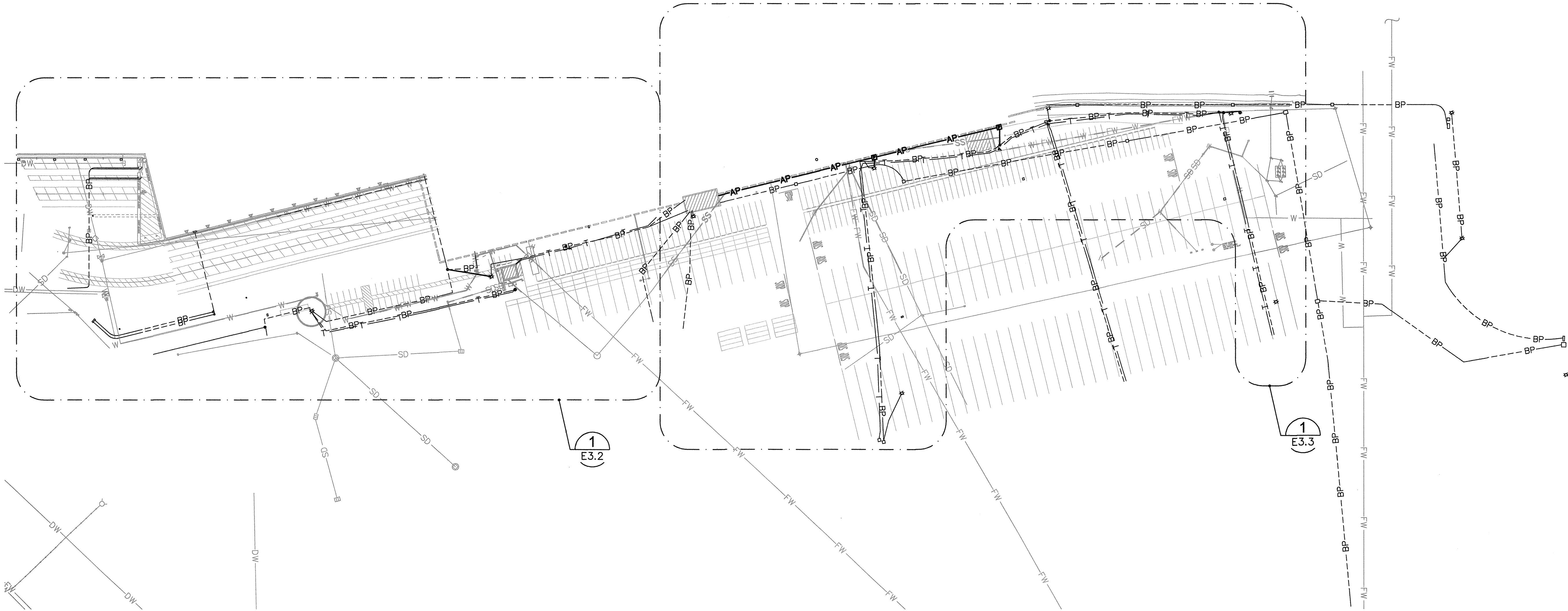
- SEE E6 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
- ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 1 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

- DISCONNECT 5KV CABLES AT CRANE SWITCH.
- AFTER TEMPORARY CONDUIT AND WIRE ARE ROUTED FROM LIGHTING CONTROL CABINET AT SUBSTATION #8410 FOR HIGH MAST LIGHTING FIXTURES (YARD AND SECURITY) AT POLE #WYL05, DISCONNECT SPLICE IN THE 480V PULLBOX.
- TACOMA POWER TO DISCONNECT AND REMOVE PAD MOUNTED TRANSFORMER.
- AFTER REMOVAL OF WIRE FROM THESE CONDUITS PER KEY NOTES ON SHEETS E2.2 AND E2.3, CUT CONDUITS AT THESE LOCATIONS AND ABANDON IN PLACE.

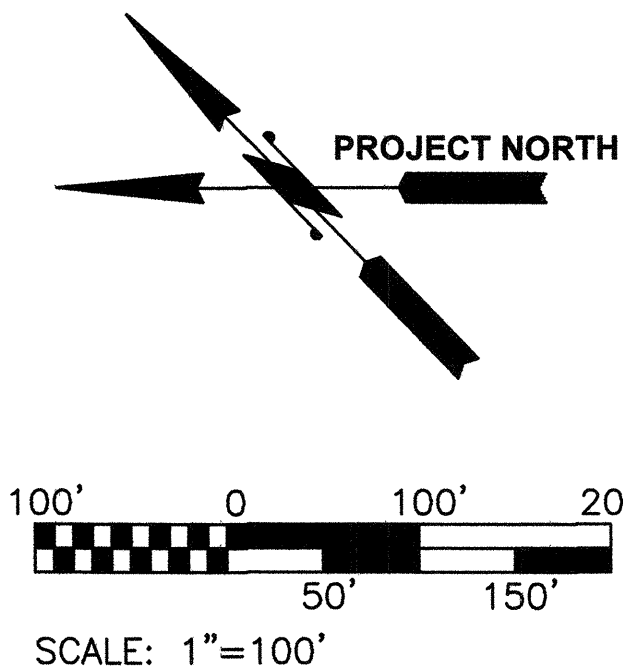
E2.5 SH 45 OF 54 CONT/CONS: 069982 M. ID: 091452 PHASE: BID	PIER 4 PHASE 1 REMOVAL ACTION PROJECT ENLARGED ELECTRICAL DEMOLITION PLAN SUBSTATION #8410	APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE PRINTED BY: Curtis Feb 05, 2015 PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837	SAB CHECKED BY HAS PROJ. ENGR DATE	2/5/15 DATE 2/5/15 DATE	ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205	P.O. BOX 1837 TACOMA, WA 98401 (206) 384-8841	MARK:	REVISION:	BY:	APPR:	DATE:

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SITE ELECTRICAL KEY PLAN

SCALE: 1"=100'



E3.1
SH 46 OF 54

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
SITE ELECTRICAL KEY PLAN

APPROVED:	SAB	2/5/15
<i>[Signature]</i>	CHECKED BY	DATE
DIRECTOR ENG. DATE	HAS	2/5/15
2-6-15	PROJ. ENGR	DATE
PRINTED BY: Curtis Feb 05, 2015		
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TACOMA, WA 98401-1837		

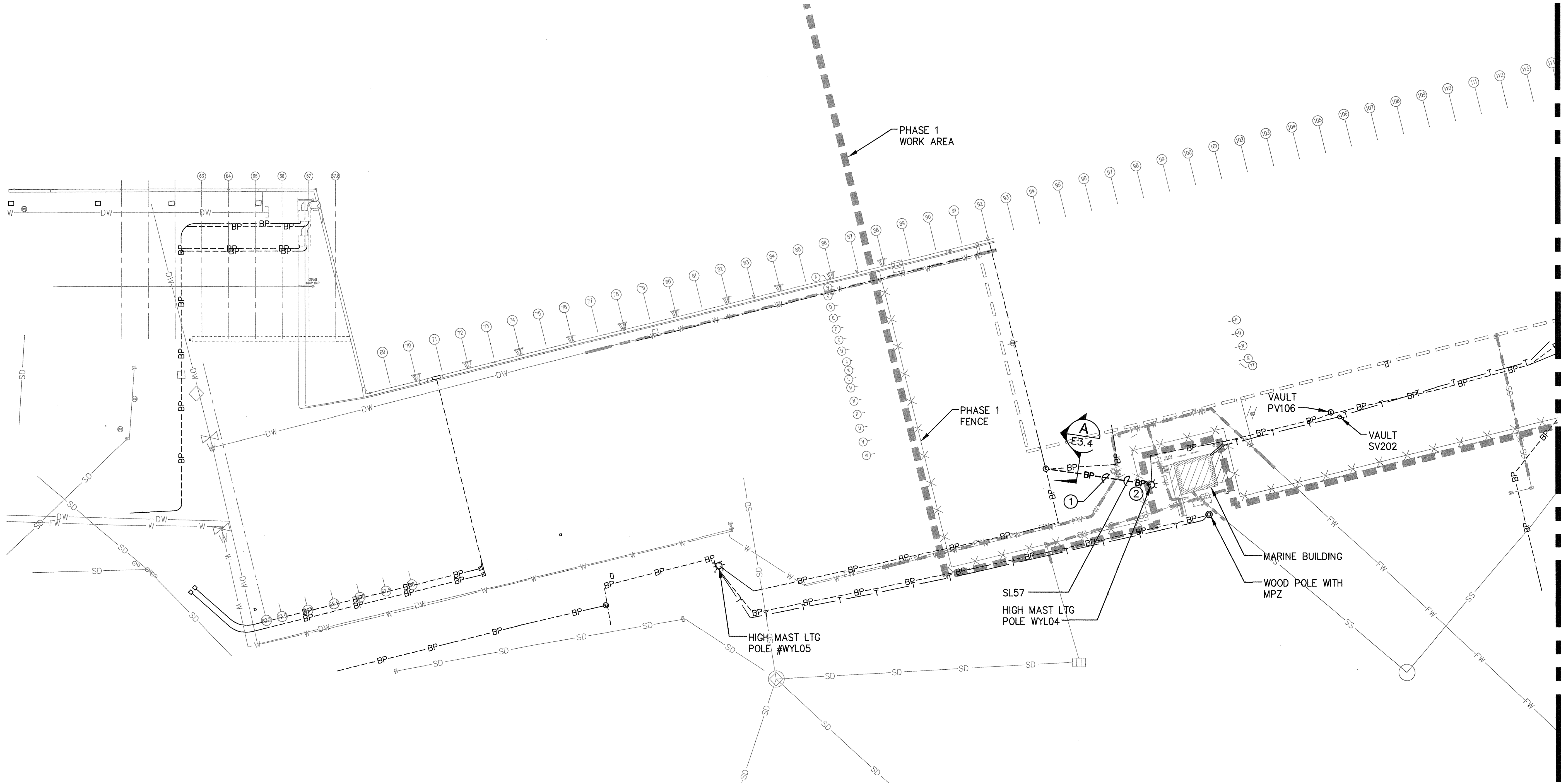


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KEY NOTES

- ① ROUTE CONDUIT FROM EXISTING MANHOLE TO HIGH MAST LIGHTING POLE #WYL04. EXTEND CONDUIT UP THE SIDE OF THE CONCRETE POLE BASE TO A CONDULET AT THE TOP OF CONCRETE BASE. PROVIDE 2" CONDUIT FROM CONDULET TO BENEATH LIGHTING POLE BASEPLATE AND TERMINATE WITH A GROUNDING BUSHING. SPLICE THE WIRES FOR YARD AND SECURITY LIGHTING TO THE EXISTING WIRES AT POLE #WYL04. SEE NOTE #5 ON SHEET E2.2 FOR SPLICING WIRES IN VAULT.
- ② REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.

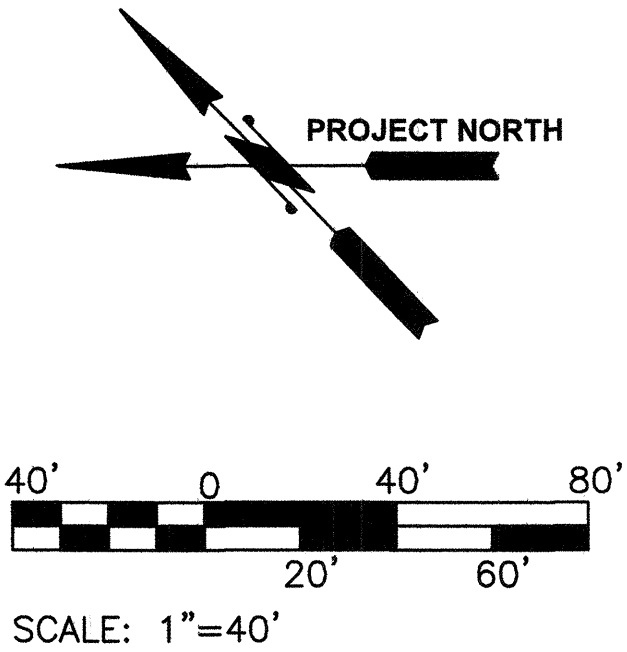
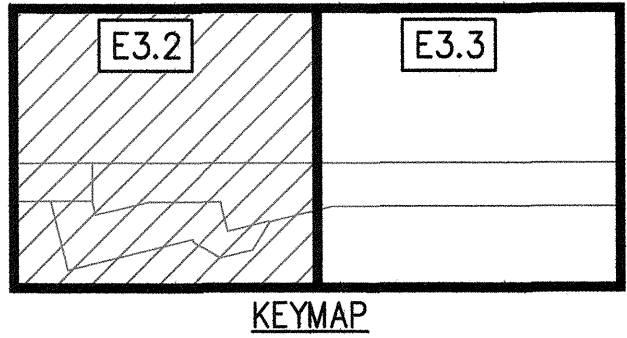
GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.

1 ELECTRICAL PLAN - SHEET 1

E3.1

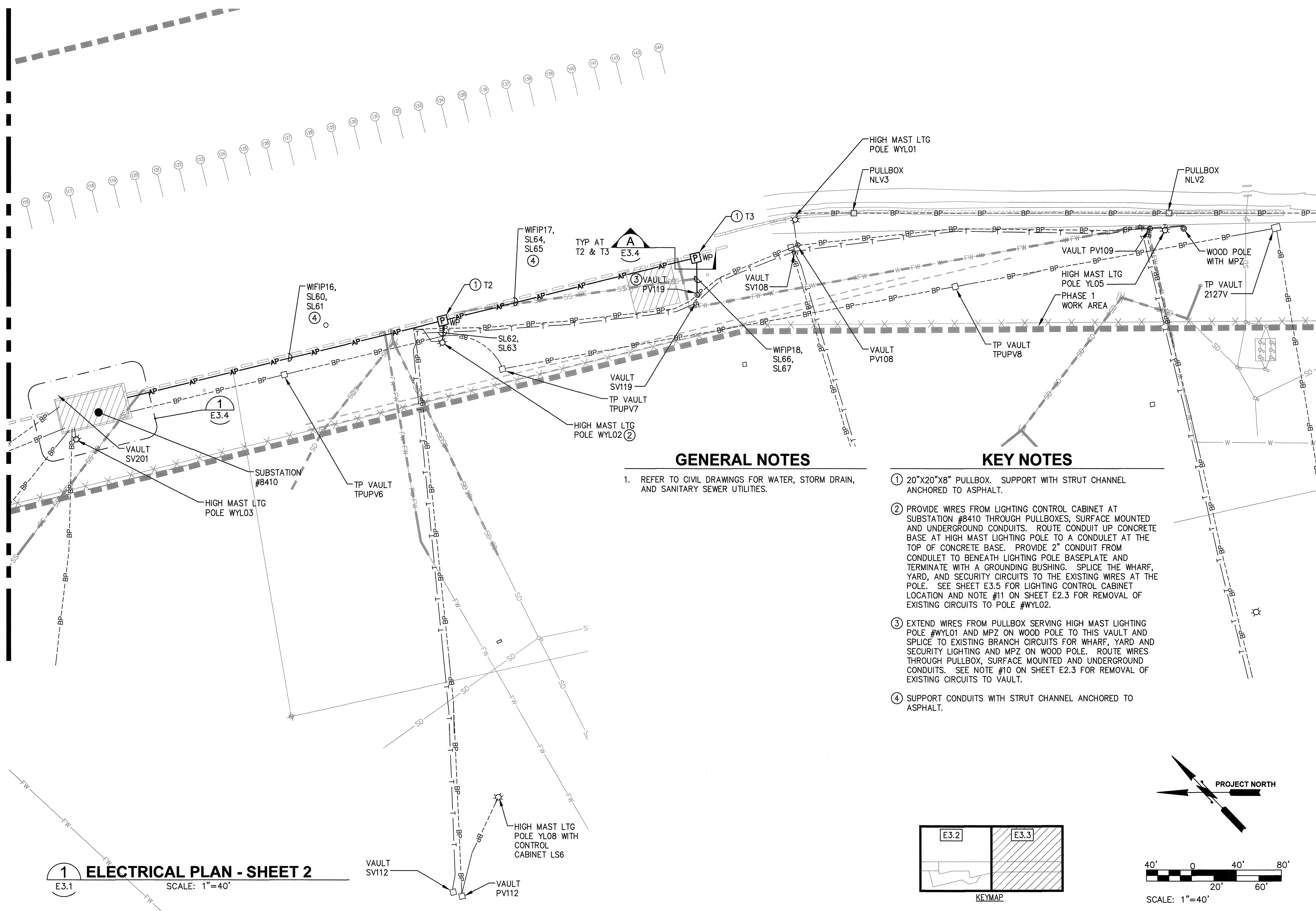
SCALE: 1"=40'

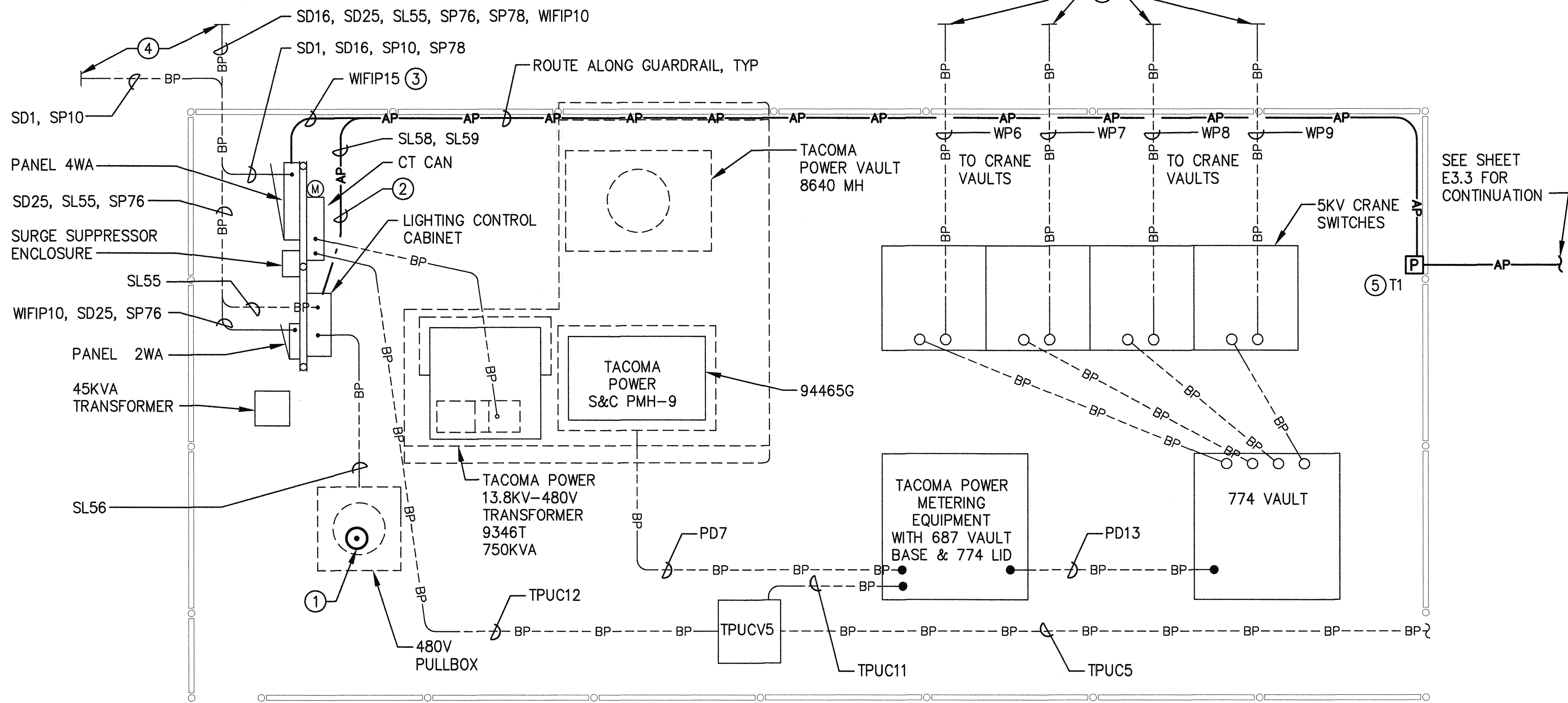


MATCH LINE SEE SHEET E3.3

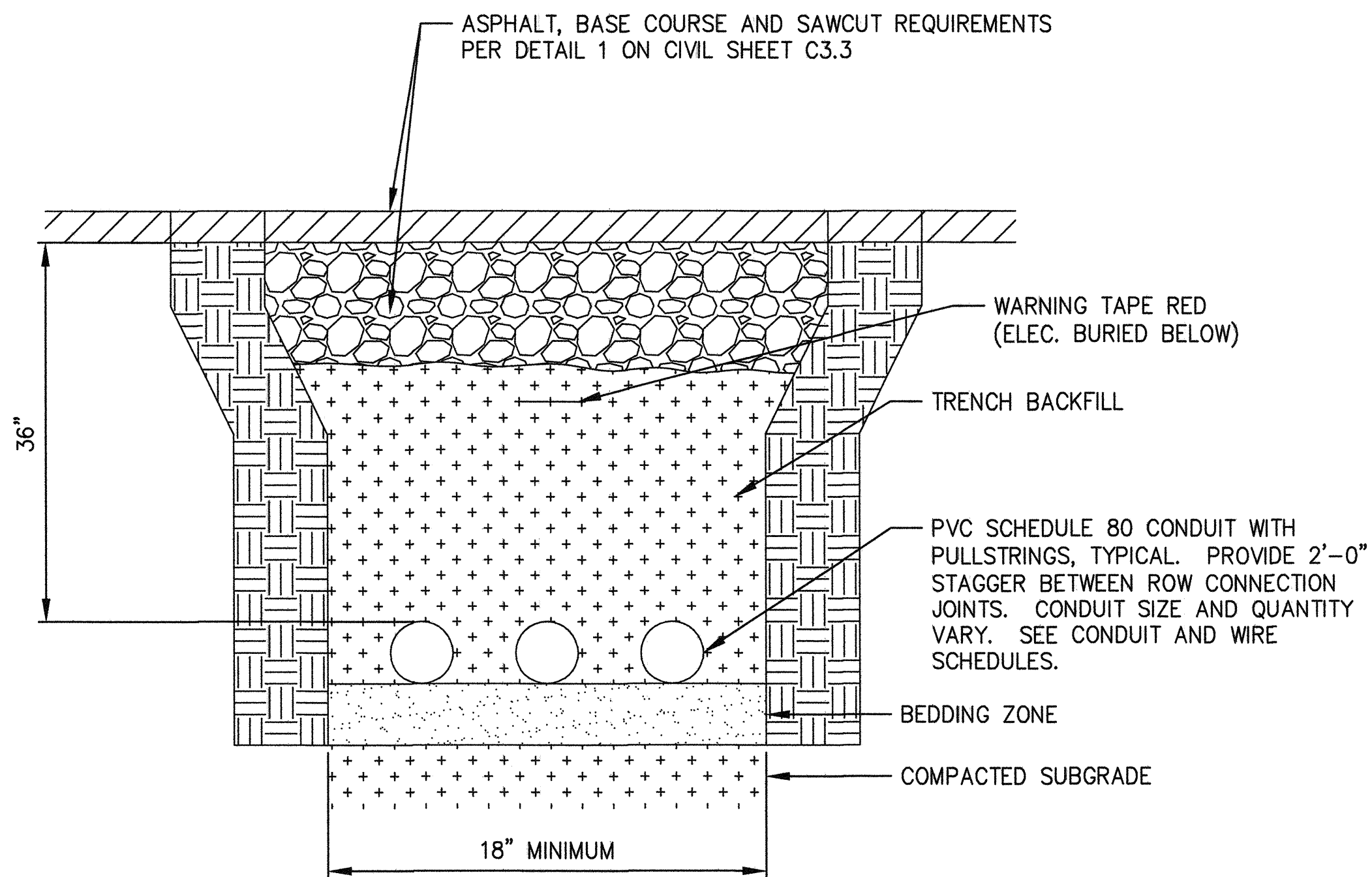
E3.2 SH 47 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT ELECTRICAL PLAN - SHEET 1				SAB 2/5/15		ELCON ASSOCIATES, INC. ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 385-9441
	CONT/CONS: 069982 M. ID: 091452 PHASE: BID	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DATE-HRZ: MILLW 19.39' @ Tide 22 1933 PARCEL: [DRAWING SCALE: AS NOTED]	DIRECTOR ENG. DATE: 2-6-15 PRINTED BY: Curtis Feb 05, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: [Signature] 2-6-15	CHECKED BY: HAS DATE: 2/5/15	REVISION:	BY:	APPR:	DATE:

MATCH LINE SEE SHEET E3.2





1
E3.3
**ENLARGED ELECTRICAL
PLAN - SUBSTATION #8410**
NO SCALE



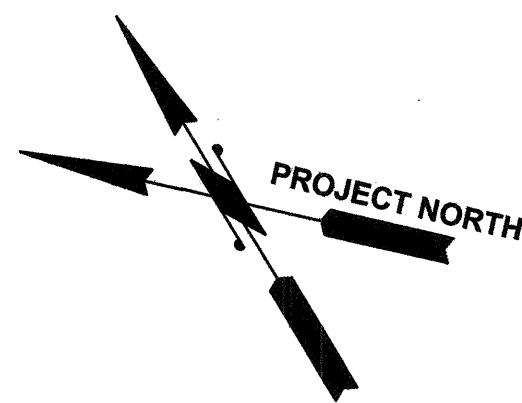
A
E3.2, E3.3
600V CONDUIT TRENCHING
NO SCALE

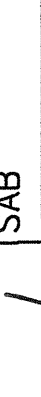
GENERAL NOTES

- SEE E6 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.

KEY NOTES

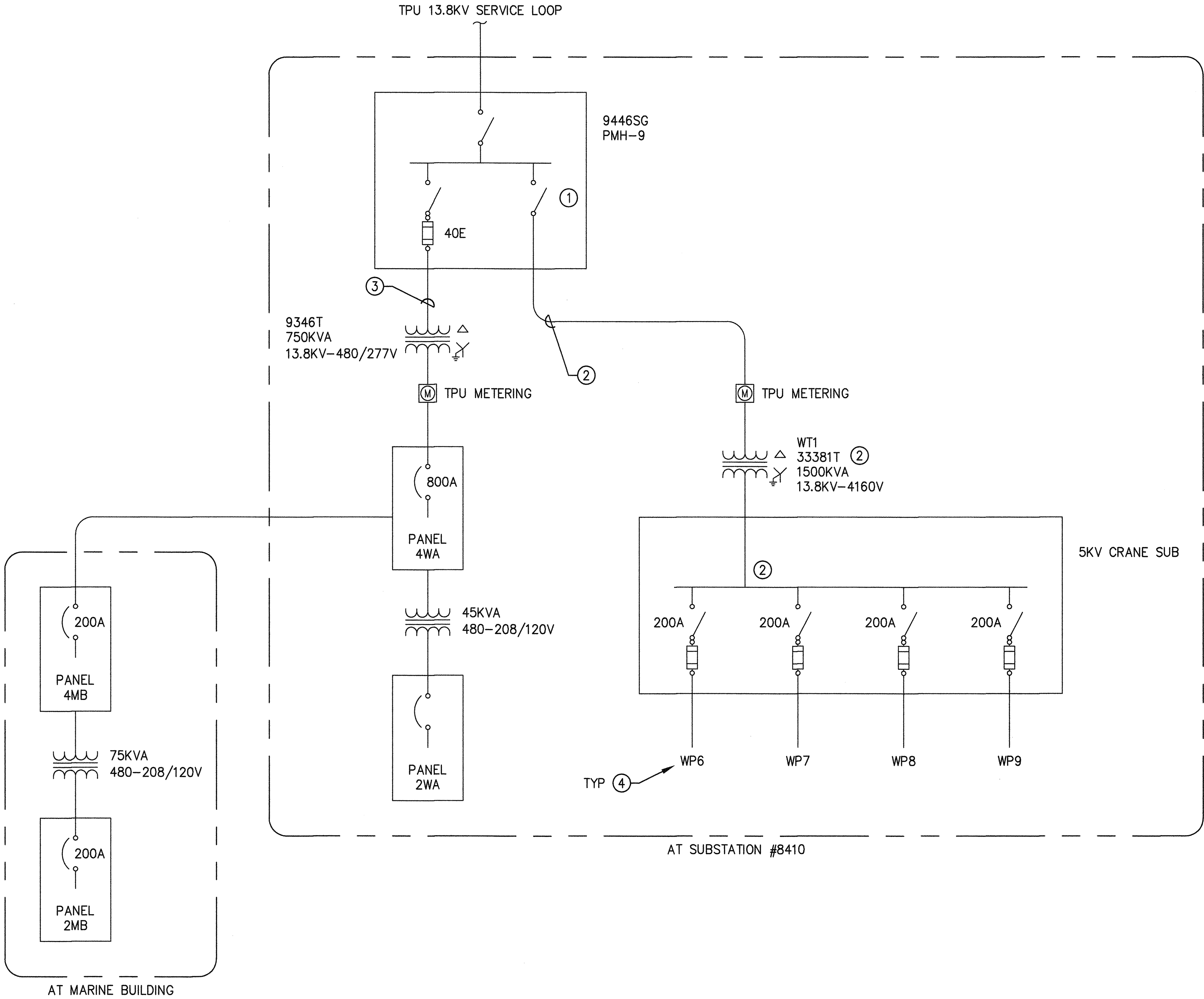
- PROVIDE GROUND ROD IN PULLBOX. CUT GROUND WIRES IN "GROUNDING" CONDUIT AND CONNECT ALL AND GROUND WIRES IN PULLBOX TO GROUND ROD WITH MECHANICAL CLAMP.
- SEE NOTE #2 ON SHEET E3.3.
- SEE NOTE #3 ON SHEET E3.3.
- SEE NOTE #4 ON SHEET E2.5 REGARDING THESE CONDUITS.
- 20"x20"x8" PULLBOX. SUPPORT WITH STRUT CHANNEL FROM GUARDRAIL STRUCTURE.



E3.4 SH 49 OF 54 CONT/CONS: 069982 M. ID: 091452 PHASE: BID	PIER 4 PHASE 1 REMOVAL ACTION PROJECT ENLARGED ELECTRICAL PLAN SUBSTATION #8410				APPROVED:  2-6-15 DIRECTOR ENG. DATE		SAB CHECKED BY HAS 2/5/15 DATE						ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205 P.O. BOX 1837 TACOMA, WA 98401 (206)383-9841 Port of Tacoma			
	TOWNSHIP: 21N RANGE: 3E SECTION: 27 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933 PARCEL:				PRINTED BY: Curtis Feb 05, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837				MARK: REVISION: BY: DATE:		APPR: DATE:					

KEY NOTES

- ① COORDINATE WITH TPU TO DISCONNECT SWITCH CONNECTION.
- ② DISCONNECT WIRING AT SUPPLY AND LOAD CONNECTIONS. WIRING TO BE REMOVED BY ELECTRICAL CONTRACTOR.
- ③ 13.8KV FEEDER TO 750KVA TRANSFORMER REMAIN IN SERVICE.
- ④ DISCONNECT WIRING AT SUPPLY AND LOAD CONNECTIONS.



DEMOLITION
ONE-LINE DIAGRAM

NO SCALE

E4.1 SH 50 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT DEMOLITION ONE-LINE DIAGRAM				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE PROJ. ENGR DATE PRINTED BY: Curtis Feb 05, 2015 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	SAB CHECKED BY HAS 2/5/15 2/5/15 DATE DATE DATE DATE		ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205	 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 865-8841
	CONT/CONS: 069982	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27					
M. ID: 091452		DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933						
PHASE: BID		PARCEL:	DRAWING SCALE: AS NOTED						
								MARK: REVISION:	BY: DATE:
								APPR: DATE:	

BANDING EDGE

LEGEND

CBC	=	OCR COMMUNICATIONS	RV	=	REEFER POWER VAULT
CBP	=	OCR POWER	SD	=	SECONDARY 600V DISTRIBUTION
CP	=	CRANE POWER	SL	=	SITE LIGHTING
CPV	=	CRANE POWER VAULT	SP	=	SPARE CONDUIT
CPC	=	CHASSIS CAMERA COMMUNICATIONS	SV	=	SIGNAL VAULT
CPP	=	CHASSIS CAMERA POWER	TPU	=	TACOMA PUBLIC UTILITY
GCV	=	GATE COMMUNICATIONS VAULT	TPUPV	=	TACOMA POWER VAULT
GPV	=	GATE POWER VAULT	WG	=	WHARF GROUNDING
HSC	=	HOMELAND SECURITY CAMERA FIBER	WP	=	WHARF PRIMARY 5KV DISTRIBUTION
IC	=	INTERCOM COMMUNICATIONS	WPV	=	WHARF POWER VAULT
IP	=	INTERCOM POWER	WS	=	WHARF SECONDARY 600V DISTRIBUTION
PD	=	PRIMARY 13.8KV DISTRIBUTION	WIFIC	=	WIFI ANTENNA SYSTEM COMMUNICATIONS
PV	=	POWER VAULT	WIFIP	=	WIFI ANTENNA SYSTEM POWER
Q	=	QWEST	NUMBERING	=	INDIVIDUAL CONDUIT IDENTIFICATION
QV	=	QWEST VAULT	//////	=	HATCHING INDICATES ITEMS TO BE REMOVED
RR	=	REEFER RECEPTACLE			

SCHEDULE KEY NOTES

- ① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.
- ② PVC SHCHEDULE 80.
- ③ GRS CONDUIT.
- ④ CONDUIT(S) CUT. ABANDONED IN PLACE.
- ⑤ COORDINATE WORK WITH TACOMA POWER.
- ⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.
- ⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

SCHEDULE GENERAL NOTES

1. NOT ALL CONDUITS ARE SHOWN ON CONDUIT AND CONDUCTOR SCHEDULES. CONTRACTOR SHALL REFER TO POWER RISER DIAGRAMS AND SUBSTATION LAYOUT PLANS FOR ADDITIONAL CONDUITS AND WIRE.

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
IC1	1	2"	②③	—	—	—	INTERCOM PEDESTAL #1	VAULT ICV1	
IC2	1	2"	②③	—	—	—	INTERCOM PEDESTAL #2	VAULT ICV1	
IC3	1	2"	②③	—	—	—	INTERCOM PEDESTAL #3	VAULT ICV1	
IC4	4	2"	②③	—	—	—	VAULT ICV1	OUTGATE COMMUNICATIONS ROOM	
IC5	1	2"	②③	—	—	—	INTERCOM PEDESTAL #4	VAULT ICV1	
IP1	1	1.5"	②③	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #1	VAULT IPV1	
IP2	1	1.5"	②③	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #2	VAULT IPV1	
IP3	1	1.5"	②③	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #3	VAULT IPV1	
IP4	—	—	—	—	—	—	—	—	NOT USED
IP5	1	2"	②③	2/1	10/10	XHHW-2	TRUCK SCALE	VAULT IPV3	
IP6	1	2"	②③	2/1	10/10	XHHW-2	VAULT IPV3	PANEL 2G	
IP7	1	1.5"	②③	4/1	10/10	XHHW-2	VAULT IPV3	PANEL 2G	
IP8	1	1.5"	②③	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #4	VAULT IPV1	
IP9	1	1.5"	②③	—	—	—	INTERCOM PEDESTAL #1	VAULT IPV1	
IP10	1	1.5"	②③	—	—	—	INTERCOM PEDESTAL #2	VAULT IPV1	
IP11	1	1.5"	②③	—	—	—	INTERCOM PEDESTAL #3	VAULT IPV1	
IP12	1	1.5"	②③	—	—	—	INTERCOM PEDESTAL #4	VAULT IPV1	
CP1	—	—	—	—	—	—	—	—	NOT USED
CP2	1	1.5"	②③	—	—	—	VAULT IPV2	CHASIS CAMERA PEDESTAL #1	
CP3	1	1.5"	②③	—	—	—	VAULT IPV2	CHASIS CAMERA PEDESTAL #2	
CP4	—	—	—	—	—	—	—	—	NOT USED
CP5	4	2"	②③	—	—	—	VAULT IPV2	PANEL 2G	
CP6	1	1"	②③	2/1	10/10	XHHW-2	LIGHTING CONTROLLER "OG"	VAULT IPV2	
CP7	—	—	—	—	—	—	—	—	NOT USED
CP8	1	1.5"	②③	2/1	10/10	XHHW-2	VAULT IPV2	CHASIS CAMERA PEDESTAL #1	
CP9	1	1.5"	②③	2/1	10/10	XHHW-2	VAULT IPV2	CHASIS CAMERA PEDESTAL #2	
CBC1	1	2"	②③	—	—	—	VAULT CV1	CHASIS LIGHT PEDESTAL #1	
CBC2	1	2"	②③	—	—	—	VAULT CV1	CHASIS CAMERA SUPPORT #1	
CBC3	1	2"	②③	—	—	—	VAULT CV1	VIT #1	
CBC4	1	2"	②③	—	—	—	VAULT CV2	CHASIS LIGHT PEDESTAL #2	
CBC5	1	2"	②③	—	—	—	VAULT CV2	CHASIS CAMERA SUPPORT #2	
CBC6	1	2"	②③	—	—	—	VAULT CV2	VIT #2	
CBC7	1	2"	②③	—	—	—	VAULT CV3	CHASIS LIGHT PEDESTAL #3	
CBC8	1	2"	②③	—	—	—	VAULT CV3	CHASIS CAMERA SUPPORT #3	
CBC9	1	2"	②③	—	—	—	VAULT CV3	VIT #3	
CBC10	1	2"	②③	—	—	—	VAULT CV4	CHASIS LIGHT PEDESTAL #4	
CBC11	1	2"	②③	—	—	—	VAULT CV4	CHASIS CAMERA SUPPORT #4	
CBC12	1	2"	②③	—	—	—	VAULT CV4	VIT #4	
CBC13	2	2"	②③	—	—	—	VAULT CV4	VAULT CV3	
CBC14	3	2"	②③	—	—	—	VAULT CV3	VAULT CV2	
CBC15	4	2"	②③	—	—	—	VAULT CV2	VAULT CV1	
CBC16	4	2"	②③	—	—	—	VAULT CV1	OUTGATE COMMUNICATIONS ROOM	
CBP1	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	CHASIS LIGHT PEDESTAL #1	
CBP2	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	CHASIS CAMERA SUPPORT #1	
CBP3	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	VIT #1	
CBP4	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	CHASIS LIGHT PEDESTAL #2	
CBP5	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	CHASIS CAMERA SUPPORT #2	
CBP6	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	VIT #2	
CBP7	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	CHASIS LIGHT PEDESTAL #3	
CBP8	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	CHASIS CAMERA SUPPORT #3	
CBP9	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	VIT #3	
CBP10	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	CHASIS LIGHT PEDESTAL #4	
CBP11	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	CHASIS CAMERA SUPPORT #4	
CBP12	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	VIT #4	
CBP13	1	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV4	VAULT CPV3	
CBP14	1	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV3	VAULT CPV2	
CBP15	2	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV2	VAULT CPV1	
CBP16	2	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV1	PANEL 2GA	
CPC1	—	—	—	—	—	—	—	—	NOT USED
CPC2	2	2"	②③	—	—	—	VAULT ICV2	CHASIS CAMERA PEDESTAL #1	
CPC3	2	2"	②③	—	—	—	VAULT ICV2	CHASIS CAMERA PEDESTAL #2	
CPC4	1	2"	②③	—	—	—	VAULT ICV2	TRUCK SCALE	
CPC5	4	2"	②③	—	—	—	VAULT ICV2	OUTGATE COMMUNICATIONS ROOM	

CONDUIT AND CONDUCTOR SCHEDULE FOR REFERENCE ONLY

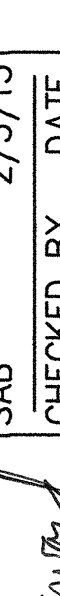
E6.1 SH 51 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT CONDUIT AND CONDUCTOR SCHEDULE				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE	SAB CHECKED BY DATE HAS 2/5/15 PROJ. ENGR DATE		ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205	
	TOWNSHIP: 21N RANGE: 3E SECTION: 27	PRINTED BY: Curtis Feb 05, 2015	SIGNED: <i>[Signature]</i> 2/5/15	MARK: REVISION: BY:					
	DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA	APPR: DATE:						
	PARCEL: DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	DATE:						

CONDUIT AND CONDUCTOR SCHEDULE										
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS	
	NO.	SIZE	TYPE	NO.	SIZE	TYPE				
GC1	1	1"	②	—	—	—	GCV1	GCV2		
CC2	1	1"	②	—	—	—	GCV2	GCV3		
GC3	1	1"	②	—	—	—	GCV3	GCV4		
GC4	1	1"	②	—	—	—	GCV4	GATE INTERCOM/CARD READER		
GP1	1	1"	②	3/1	8/10	XHHW-2	GPV1	GPV2		
GP2	1	1"	②	3/1	8/10	XHHW-2	GPV2	GPV3		
GP3	1	1"	②	3/1	8/10	XHHW-2	GPV3	GPV4		
GP4	1	1"	②	3/1	8/10	XHHW-2	GPV4	GATE CONTROLLER		
PD1	6	5"	②	—	—	—	TPUPV1	TPUPV2		
PD2	6	5"	②	—	—	—	TPUPV2	TPUPV3		
PD3	6	5"	②	—	—	—	TPUPV3	TPUPV4		
PD4	6	5"	②	—	—	—	TPUPV4	STUB AT WHARF		
PD5	—	—	—	—	—	—	—	—	NOT USED	
PD6	—	—	—	—	—	—	—	—	NOT USED	
PD7	2	5"	②③	—	—	—	EXISTING TCL SWITCH	TCL METERING SECTION	⑤	
PD8	—	—	—	—	—	—	—	—	NOT USED	
PD9	4	5"	②	—	—	—	TPUPV6	TPUPV7		
PD10	4	5"	②	—	—	—	TPUPV7	TPUPV8		
PD11	4	5"	②	—	—	—	TPUPV8	RELOCATED VAULT TPUPV5		
PD12	4	5"	②	—	—	—	TPUPV4	TPUPV9		
PD13	2	5"	②③	—	—	—	TCL METERING SECTION	TRANSFORMER WT1	⑤	
PD14	4	5"	②③	—	—	—	TPUPV4	NEW WHARF		
PD15	2	5"	②	—	—	—	EXISTING TPU XFMR	TPUPV10		
PD16	2	5"	②	—	—	—	TPUPV10	1500KVA XFMR (SUBSTATION #8411)		
TPUC1	1	4"	②	—	—	—	TPUCV1	TPUCV2		
TPUC2	1	4"	②	—	—	—	TPUCV2	TPUCV3		
TPUC3	1	4"	②	—	—	—	TPUCV3	TPUCV4		
TPUC4	1	4"	②	—	—	—	TPUCV4	TPUCV9		
TPUC5	1	4"	②	—	—	—	TPUCV5	TPUPV6		
TPUC6	1	4"	②	—	—	—	TPUPV6	TPUPV7		
TPUC7	1	4"	②	—	—	—	TPUPV7	TPUPV8		
TPUC8	1	4"	②	—	—	—	TPUPV8	STUBBED AT TPU DUCTBANK		
TPUC9	1	4"	②	—	—	—	STUB AT EXISTING TPU XFMR	TPUCV10		
TPUC10	1	4"	②	—	—	—	TPUCV10	SWITCHBOARD (SUBSTATION #8411)		
TPUC11	1	4"	②③	—	—	—	TPUCV5	TCL METERING SECTION		
TPUC12	1	4"	②③	—	—	—	TPUCV5	CT CAN		
RR1	1	2.5"	②③	3/1	0000/6	XHHW-2	BR1	SWITCHBOARD #8411		
RR2	1	2.5"	②③	3/1	0000/6	XHHW-2	BR2	BR1		
RR3	1	2.5"	②③	3/1	0000/6	XHHW-2	BR3	SWITCHBOARD #8411		
RR4	1	2.5"	②③	3/1	0000/6	XHHW-2	BR4	BR3		
RR5	1	2.5"	②③	3/1	0000/6	XHHW-2	BR5	BR6		
RR6	1	2.5"	②③	3/1	0000/6	XHHW-2	BR6	VAULT RV1		
RR7	1	2.5"	②③	3/1	0000/6	XHHW-2	BR7	VAULT RV1		
RR8	1	2.5"	②③	3/1	0000/6	XHHW-2	BR8	BR7		
RR9	1	2.5"	②③	3/1	0000/6	XHHW-2	BR9	VAULT RV1		
RR10	1	2.5"	②③	3/1	0000/6	XHHW-2	BR10	BR9		
RR11	1	2.5"	②③	3/1	0000/6	XHHW-2	BR11	VAULT RV1		
RR12	1	2.5"	②③	3/1	0000/6	XHHW-2	BR12	BR11		
RR13	1	2.5"	②③	3/1	0000/6	XHHW-2	BR13	BR12		
RR14	1	2.5"	②③	3/1	0000/6	XHHW-2	BR14	VAULT RV2		
RR15	1	2.5"	②③	3/1	0000/6	XHHW-2	BR15	VAULT RV2		
RR16	1	2.5"	②③	3/1	0000/6	XHHW-2	BR16	BR15		
RR17	1	2.5"	②③	3/1	0000/6	XHHW-2	BR17	VAULT RV2		
RR18	1	2.5"	②③	3/1	0000/6	XHHW-2	BR18	BR17		
RR19	1	2.5"	②③	3/1	0000/6	XHHW-2	BR19	VAULT RV2		
RR20	1	2.5"	②③	3/1	0000/6	XHHW-2	BR20	BR19		
RR21	1	2.5"	②③	3/1	0000/6	XHHW-2	BR21	VAULT RV2		
RR22	4	2.5"	②	3/1	0000/6	XHHW-2	RV2	VAULT RV1		
RR23	5	2.5"	②	3/1	0000/6	XHHW-2	RV1	SWITCHBOARD #8411		
WG1	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL		
WG2	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL		
WG3	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL		
WP1	1	4"	②③	—	—	—	CPV1	PV202	PIER 3 ↓ ④ ↓	
WP2	1	4"	②③	—	—	—	CPV2	PV202		
WP3	1	4"	②③	—	—	—	CPV3	PV202		
WP4	1	4"	②③	—	—	—	CPV4	PV202		
WP5	6	4"	②	—	—	—	PV202	PV201		
WP6	1	4"	②③	3/1	0000/0000-5KV/600V	5KV SWITCHES	CPV205	CPV205		
WP7	1	4"	②③	3/1	0000/0000-5KV/600V	5KV SWITCHES	CPV205	CPV205		
WP8	1	4"	②③	—	—	—	5KV SWITCHES	CPV205		
WP9	1	4"	②③	—	—	—	5KV SWITCHES	CPV205		
WP10	1	4"	②	3/1	0000/0000-5KV/600V	5KV SWITCHES	CPV205	CPV206		
WP11	1	4"	②	3/1	0000/0000-5KV/600V	5KV SWITCHES	CPV205	CPV206		
WP12	1	4"	②	3/1	0000/0000-5KV/600V	5KV SWITCHES	CPV205	CPV207		

CONDUIT AND CONDUCTOR SCHEDULE									
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
HSC1	1	4"	②	—	—	—	T4 MARINE BUILDING	SV202	
HSC2	1	4"	②	—	—	—	SV202	SV201	④
HSC3	1	4"	②	—	—	—	SV201	SV118	
HSC4	1	4"	②	—	—	—	SV118	SV119	④
HSC5	1	4"	②	—	—	—	SV119	SV108	
HSC6	1	4"	②	—	—	—	SV108	SV109	
HSC7	1	2"	②	—	—	—	SV109	CAMERA ON WOOD POLE	
WIFIC1	2	4"	②	—	—	—	HUSKY ADMIN. BUILDING	SV103	①
WIFIC2	2	4"	②	—	—	—	SV103	SV116	
WIFIC3	2	4"	②	—	—	—	SV116	SV115	
WIFIC4	1	4"	②	—	—	—	SV115	SV117	
WIFIC5	2	4"	②	—	—	—	SV115	SV114	
WIFIC6	1	4"	②	—	—	—	SV114	OUTGATE COMM. ROOM	
WIFIC7	2	4"	②	—	—	—	SV114	SV113	
WIFIC8	2	4"	②	—	—	—	SV113	SV104	
WIFIC9	2	4"	②	—	—	—	SV104	SV101	
WIFIC10	1	4"	②	—	—	—	SV101	MAINTENANCE BUILDING	
WIFIC11	2	4"	②	—	—	—	SV103	SV203	
WIFIC12	2	4"	②	—	—	—	SV203	SV204	
WIFIC13	2	4"	②	—	—	—	SV204	SV136	
WIFIC14	1	2"	②	—	—	—	SV136	WIFI MONO POLE	
WIFIC15	1	4"	②	—	—	—	SV136	SV135	
WIFIC16	1	4"	②	—	—	—	SV135	SV134	
WIFIC17	1	4"	②	—	—	—	SV134	SV132	
WIFIC18	1	4"	②	—	—	—	SV132	SV129	
WIFIC19	1	4"	②	—	—	—	SV129	EXISTING T3 MARINE BUILDING	
WIFIC20	1	2"	②	—	—	—	SV117	EXISTING YL25 WIFI ANTENNA AP-1	
WIFIC21	1	4"	②	—	—	—	SV103	SV110	
WIFIC22	1	4"	②	—	—	—	SV110	SV109	
WIFIC23	1	2"	②	—	—	—	SV109	WIFI ANTENNA AP-2	
WIFIC24	1	4"	②	—	—	—	SV109	SV108	
WIFIC25	1	4"	②	—	—	—	SV108	SV119	
WIFIC26	1	4"	②	—	—	—	SV119	SV118	④
WIFIC27	1	4"	②	—	—	—	SV118	SV201	
WIFIC28	1	4"	②	—	—	—	SV201	SV202	④
WIFIC29	1	4"	②	—	—	—	SV202	T4 MARINE BUILDING	①
WIFI1	1	2"	②③	2/1	6/10	XHHW-2	PANEL 4G	PV114	
WIFI2	1	4"	②③	2/1	6/10	XHHW-2	PV114	PV115	
WIFI3	1	4"	②③	2/1	6/10	XHHW-2	PV115	PV119	
WIFI4	1	2"	②③	2/1	6/10	XHHW-2	PANEL 4BR	PV122	
WIFI5	1	4"	②③	2/1	6/10	XHHW-2	PV122	PV123	
WIFI6	1	4"	②③	2/1	6/10	XHHW-2	PV123	PV124	
WIFI7	1	4"	②③	2/1	6/10	XHHW-2	PV124	PV125	
WIFI8	1	4"	②③	2/1	6/10	XHHW-2	PV122	PV121	
WIFI9	1	4"	②③	2/1	6/10	XHHW-2	PV121	PV120	

1. SEE DRAWING E6.1 FOR LEGEND AND GENERAL NOTES.

- ① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.
- ② PVC SHCHEDULE 80.
- ③ GRS CONDUIT.
- ④ CONDUIT(S) CUT. ABANDONED IN PLACE.
- ⑤ COORDINATE WORK WITH TACOMA POWER.
- ⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.
- ⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

E6.2 SH 52 OF 54	PIER 4 PHASE 1 REMOVAL ACTION PROJECT CONDUIT AND CONDUCTOR SCHEDULE				APPROVED: <i>[Signature]</i> 2-6-15 DIRECTOR ENG. DATE	SAB CHECKED BY DATE HAS 2/5/15 PROJ. ENGR DATE		ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205	
	TOWNSHIP: 21N RANGE: 3E SECTION: 27		PRINTED BY: Curtis Feb 05, 2015		MARK: REVISION: BY: APPR: DATE:				
	DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCOM PLAZA						
	PHASE: BID		DRAWING SCALE: AS NOTED						
TACOMA, WA 98401-1837									

CONDUIT AND CONDUCTOR SCHEDULE										
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS	
	NO.	SIZE	TYPE	NO.	SIZE	TYPE				
SD1	1	2.5"	(2)③	3/1	0000/6	XHHW-2	PANEL 4WA	VAULT PV106		
SD2	1	2.5"	(2)③	3/1	0000/6	XHHW-2	VAULT PV106	PANEL 4MA		
SD3	1	4"	(2)③	4	600	XHHW-2	SUBSTATION #4 SWBD #1	PV102		
SD4	1	4"	(2)	4	600	XHHW-2	PV102	PV103		
SD5	1	4"	(2)	4	600	XHHW-2	PV103	PV104		
SD6	1	4"	(2)	4	600	XHHW-2	PV104	PV113		
SD7	1	4"	(2)	4	600	XHHW-2	PV113	PV114		
SD8	1	4"	(2)	4	600	XHHW-2	PV114	PANEL 4G		
SD9	1	4"	(2)③	4	250	XHHW-2	SUBSTATION #4 SWBD #1	PV101		
SD10	1	4"	(2)	4	250	XHHW-2	PV101	PANEL 4M		
SD11	1	.75"	(3)	2/1	10/12	XHHW-2	PANEL 4G	OG LIGHTING PANEL	HEATER	
SD12	1	2"	(2)③	3/1	4/8	XHHW-2	PANEL 4BR	PV122		
SD13	1	2"	(2)	3/1	4/8	XHHW-2	PV122	PV121		
SD14	1	2"	(2)	3/1	4/8	XHHW-2	PV121	PV120		
SD15	1	2"	(2)	3/1	4/8	XHHW-2	PV120	SEWAGE LIFT STATION		
SD16	1	2"	(2)③	3/1	0000/6	XHHW-2	PANEL 4WA	PV203	④	NOT USED
SD17	-	-	-	-	-	-	-	-		
SD18	1	2"	(2)	3/1	0000/6	XHHW-2	PV203	PV205		
SD19	1	2"	(2)	3/1	0000/6	XHHW-2	PV205	PV206		
SD20	1	2"	(2)	3/1	0000/6	XHHW-2	PV206	PV207		
SD21	1	2"	(2)③	2/1	8/8	XHHW-2	PANEL 2GA	PV114		
SD22	1	2"	(2)	2/1	8/8	XHHW-2	PV114	PV115		
SD23	1	2"	(2)	2/1	8/8	XHHW-2	PV115	PV117		
SD24	1	2"	(2)③	2/1	8/8	XHHW-2	PV117	POLE YL25		
SD25	1	2"	(2)③	2/1	8/6	XHHW-2	PANEL 2WA	PV203	④	
SD26	1	2"	(2)	2/1	8/6	XHHW-2	PV203	PV118		
SD27	1	2"	(2)③	2/1	8/6	XHHW-2	PV118	SECURITY CAMERA POLE		
SD28	1	1"	(2)③	2/1	8/8	XHHW-2	PANEL 2BR	PV122		
SD29	1	1"	(2)	2/1	8/8	XHHW-2	PV122	PV123		
SD30	1	1"	(2)	2/1	8/8	XHHW-2	PV123	PV124		
SD31	1	1"	(2)	2/1	8/8	XHHW-2	PV124	PV125		
SD32	1	1"	(2)	2/1	8/8	XHHW-2	PV125	PV126		
SD33	1	1"	(2)	2/1	8/8	XHHW-2	PV126	PV202		
SD34	1	1"	(2)③	2/1	8/8	XHHW-2	PV202	WHARF WATER VAULT		
SD35	5	1"	(2)③	3/1	8/8	XHHW-2	PANEL 2WA	PV203		
SD36	1	1"	(2)	3/1	8/8	XHHW-2	PV203	PV204		
SD37	4	1"	(2)	3/1	8/8	XHHW-2	PV203	PV205		
SD38	2	1"	(2)	3/1	8/8	XHHW-2	PV205	PV206		
SD39	1	1"	(2)	3/1	8/8	XHHW-2	PV206	PV207		
SD40	-	-	-	-	-	-	-	-	NOT USED	
SD41	1	2"	(2)③	3/1	0/6	XHHW-2	PV207	BULLRAIL CUTTER BY OTHERS		
SD42	1	2"	(2)③	3/1	0/6	XHHW-2	BULLRAIL CUTTER BY OTHERS	EXISTING WHARF POWER VAULT #1		
SD43	1	2"	(2)③	3/1	0/6	XHHW-2	EXISTING WHARF POWER VAULT #1	EXISTING WHARF POWER VAULT #2		
SD44	1	2"	(2)③	3/1	0/6	XHHW-2	EXISTING WHARF POWER VAULT #2	EXISTING WHARF POWER VAULT #3		
SD45	1	2"	(2)	3/1	0/6	XHHW-2	EXISTING WHARF POWER VAULT #3	EXISTING WHARF POWER VAULT #4		

GENERAL NOTES

1. SEE DRAWING E6.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

- ① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.
- ② PVC SHCHEDULE 80.
- ③ GRS CONDUIT.
- ④ CONDUIT(S) CUT. ABANDONED IN PLACE.
- ⑤ COORDINATE WORK WITH TACOMA POWER.
- ⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.
- ⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

CONDUIT AND CONDUCTOR SCHEDULE										
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS	
	NO.	SIZE	TYPE	NO.	SIZE	TYPE				
SL1	4	2"	(3)	3/1	0/6	XHHW-2	PANEL 4G	LIGHTING CONTROL OG		
SL2	4	2"	(2)③	3/1	0/6	XHHW-2	LIGHTING CONTROL OG	PV114		
SL3	2	2"	(2)③	3/1	0/6	XHHW-2	PV114	PV113		
SL4	2	2"	(2)③	3/1	0/6	XHHW-2	PV113	POLE YL09		
SL5	2	2"	(2)③	3/1	0/6	XHHW-2	PV113	PV112		
SL6	2	2"	(2)③	3/1	0/6	XHHW-2	PV112	POLE YL08		
SL7	3	2"	(2)③	3/1	0/6	XHHW-2	PV114	PV115		
SL8	2	2"	(2)③	3/1	0/6	XHHW-2	PV115	POLE YL10		
SL9	2	2"	(2)③	3/1	0/6	XHHW-2	PV115	PV117		
SL10	1	2"	(2)③	3/1	0/6	XHHW-2	PV117	POLE YL25		
SL11	2	2"	(2)③	3/1	0/6	XHHW-2	PV115	PV116		
SL12	2	2"	(2)③	3/1	0/6	XHHW-2	PV116	POLE YL11		
SL13	2	2"	(2)③	3/1	0/6	XHHW-2	PV115	PV111		
SL14	2	2"	(2)③	3/1	0/6	XHHW-2	PV111	POLE YL07		
SL15	2	2"	(2)③	3/1	0/6	XHHW-2	PV111	PV110		
SL16	2	2"	(2)③	3/1	0/6	XHHW-2	PV110	POLE YL06		
SL17	2	2"	(2)③	3/1	0/6	XHHW-2	PV110	PV109		
SL18	2	2"	(2)③	3/1	0/6	XHHW-2	PV109	POLE YL05		
SL19	4	2"	(2)③	3/1	0/6	XHHW-2	PANEL 4BR	LIGHTING CONTROL PANEL		
SL20	4	2"	(2)	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV122		
SL21	2	2"	(2)	3/1	0/6	XHHW-2	PV122	PV123		
SL22	2	2"	(2)	3/1	0/6	XHHW-2	PV123	POLE YL22		
SL23	2	2"	(2)	3/1	0/6	XHHW-2	PV123	PV124		
SL24	2	2"	(2)	3/1	0/6	XHHW-2	PV124	POLE YL23		
SL25	2	2"	(2)	3/1	0/6	XHHW-2	PV124	PV125		
SL26	2	2"	(2)	3/1	0/6	XHHW-2	PV125	POLE YL24		
SL27	2	2"	(2)	3/1	0/6	XHHW-2	PV122	PV121		
SL28	2	2"	(2)	3/1	0/6	XHHW-2	PV121	POLE YL19		
SL29	2	2"	(2)	3/1	0/6	XHHW-2	PV121	PV120		
SL30	2	2"	(2)	3/1	0/6	XHHW-2	PV120	POLE YL18		
SL31	2	2"	(2)	3/1	0/6	XHHW-2	PV122	PV121		
SL32	2	2"	(3)	3/1	0/6	XHHW-2	PV121	PV130		
SL33	2	2"	(2)	3/1	0/6	XHHW-2	PV130	POLE YL21		
SL34	2	2"	(2)	3/1	0/6	XHHW-2	PV130	PV131		
SL35	2	2"	(2)	3/1	0/6	XHHW-2	PV131	POLE YL20		
SL36	2	2"	(2)	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV129		
SL37	2	2"	(2)	3/1	0/6	XHHW-2	PV129	PV128		
SL38	2	2"	(2)	3/1	0/6	XHHW-2	PV128	PV127		
SL39	2	2"	(2)	3/1	0/6	XHHW-2	PV127	POLE WYL10		
SL40	2	2"	(2)	3/1	0/6	XHHW-2	PV127	PV126		
SL41	2	2"	(2)	3/1	0/6	XHHW-2	PV126	POLE WYL11		
SL42	2	2"	(2)	3/1	0/6	XHHW-2	PV119	PV108		
SL43	2	2"	(2)	3/1	0/6	XHHW-2	PV108	POLE WYL01		
SL44	-	-	-	-	-	-	-	-	NOT USED	
SL45	2	2"	(2)	3/1	0/6	XHHW-2	PV118	POLE WYL02	④	
SL46	2	2"	(2)	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132		
SL47	-	-	-	-	-	-	-	-	NOT USED	
SL48	2	2"	(2)	3/1	0/6	XHHW-2	PV133	POLE WYL09		
SL49	3	2"	(2)	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132		
SL50	3	2"	(2)	3/1	0/6	XHHW-2	PV132	PV134		
SL51	3	2"	(2)	3/1	0/6	XHHW-2	PV134	PV135		
SL52	2	2"	(2)	3/1	0/6	XHHW-2	PV135	POLE YL16		
SL53	2	2"	(2)	3/1	0/6	XHHW-2	PV135	PV136		
SL54	2	2"	(2)	3/1	0/6	XHHW-2	PV136	POLE YL17		
SL55	3	2"	(2)③	3/1	0/6	XHHW-2	SUB. #8410 LIGHTING CABINET	PV203	④	
SL56	3	2"	(2)③	3/1	0/6	XHHW-2	SUB. #8410 LIGHTING CABINET	EXISTING 480V PULLBOX		
SL57	1	2"	(2)③	6/1	0/6	XHHW-2	VAULT AT BENT 92	YARD & SECURITY LTG		
SL58	1	1-1/2"	(3)	3/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX T1	WHARF LTG	
SL59	1	2"	(3)	6/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX T1	YARD & SECURITY LTG	
SL60	1	1-1/2"	(3)	3/1	0/6	XHHW-2	PULLBOX T1	PULLBOX T2	WHARF LTG	
SL61	1	2"	(3)	6/1	0/6	XHHW-2	PULLBOX T1	PULLBOX T2	YARD & SECURITY LTG	
SL62	1	2"	(2)③	3/1	0/6	XHHW-2	PULLBOX T2	LIGHTING POLE WYL02	WHARF LTG	
SL63	1	2"	(2)③	6/1	0/6	XHHW-2	PULLBOX T2	LIGHTING POLE WYL02	YARD & SECURITY LTG	
SL64	1	1-1/2"	(3)	3/1	0/6	XHHW-2	PULLBOX T2	PULLBOX T3	WHARF LTG	
SL65	1	2"	(3)	6/1	0/6	XHHW-2	PULLBOX T2	PULLBOX T3	YARD & SECURITY LTG	
SL66	1	2"	(2)③	3/1	0/6	XHHW-2	PULLBOX T3	PV119	WHARF LTG	
SL67	1	2"	(2)③	6/1	0/6	XHHW-2	PULLBOX T3	PV119	YARD & SECURITY LTG	

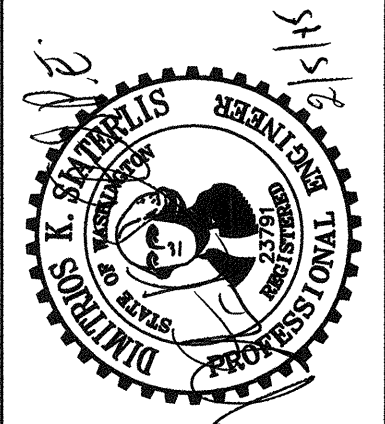
E6.3
SH 53 OF 54

CONTRACT/CONS: 069982
M. ID: 091452
PHASE: BID

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
CONDUIT AND CONDUCTOR SCHEDULE

TOWNSHIP: 21N RANGE: 3E SECTION: 27
DATE-HRZ: WAB3-SF VERT: MLLW 19.39' @ Tide 22 1933
PARCEL: DRAWING SCALE: AS NOTED

APPROVED: *[Signature]* 2-6-15
DIRECTOR ENGR. DATE
PRINTED BY: Curtis Feb 05, 2015
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837



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Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837

MARK: REVISION: BY: APPR: DATE:

CONDUIT AND CONDUCTOR SCHEDULE									
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
SP1	2	2.5"	②	-	-	-	RV2	RV1	
SP2	2	2.5"	②	-	-	-	RV1	SWITCHBOARD #8411	
SP3	1	4"	②③	-	-	-	EXTERIOR MAINT. BLDG.	SV101	SEE SHEET E1.04
SP4	2	4"	②	-	-	-	SV101	SV102	
SP5	4	4"	②	-	-	-	SV102	SV103	
SP6	4	4"	②	-	-	-	SV103	SV104	
SP7	4	4"	②	-	-	-	SV104	SV105	
SP8	4	4"	②	-	-	-	SV105	SV106	
SP9	2	4"	②③	-	-	-	SV106	NEW BLDG ADDITION	STUB 10' OUTSIDE BUILDING
SP10	3	2.5"	②③	-	-	-	PULLBOX (AT SUB. 8410)	VAULT PV106	
SP11	2	2.5"	②③	-	-	-	VAULT PV106	STUB & CAP AT MARINA BLDG. T4	
SP12	2	4"	②③	-	-	-	SUBSTATION #4 SWBD #1	PV102	
SP13	2	4"	②	-	-	-	PV102	PV103	
SP14	2	4"	②	-	-	-	PV103	PV104	
SP15	2	4"	②	-	-	-	PV104	PV113	
SP16	2	4"	②	-	-	-	PV113	PV114	
SP17	1	4"	②	-	-	-	PV114	PV115	
SP18	2	4"	②	-	-	-	PV115	PV116	
SP19	1	4"	②	-	-	-	PV115	PV117	
SP20	2	4"	②	-	-	-	PV113	PV112	
SP21	2	4"	②	-	-	-	PV112	PV118	④
SP22	1	4"	②	-	-	-	PV115	PV111	
SP23	2	4"	②	-	-	-	PV111	PV108	
SP24	2	4"	②	-	-	-	PV116	PV110	
SP25	1	2"	③	-	-	-	PANEL 4G	OG LIGHTING PANEL	
SP26	1	4"	②	-	-	-	SV110	PV109	
SP27	1	4"	②	-	-	-	PV109	PV108	
SP28	2	4"	②	-	-	-	SV104	SV113	
SP29	2	4"	②	-	-	-	SV113	SV114	
SP30	1	4"	②	-	-	-	SV114	OUT GATE RM. 102	
SP24	2	4"	②	-	-	-	PV116	PV110	
SP25	1	2"	③	-	-	-	PANEL 4G	OG LIGHTING PANEL	
SP26	2	4"	②	-	-	-	SV110	PV109	
SP27	2	4"	②	-	-	-	PV109	PV108	
SP28	4	4"	②	-	-	-	SV104	SV113	
SP29	4	4"	②	-	-	-	SV113	SV114	
SP30	2	4"	②	-	-	-	SV114	OUT GATE RM. 102	
SP31	2	4"	②	-	-	-	SV114	SV115	
SP32	2	4"	②	-	-	-	SV115	SV116	
SP33	3	4"	②	-	-	-	SV115	SV117	
SP34	4	4"	②	-	-	-	SV113	SV112	
SP35	4	4"	②	-	-	-	SV112	SV118	④
SP36	4	4"	②	-	-	-	SV115	SV111	
SP37	2	4"	②	-	-	-	SV111	SV103	
SP38	3	4"	②	-	-	-	SV103	SV110	
SP39	3	4"	②	-	-	-	SV110	SV109	
SP40	2	4"	②	-	-	-	SV109	SV108	
SP41	2	2"	②③	-	-	-	OG LIGHTING PANEL	PV114	
SP42	4	4"	②	-	-	-	SV110	SV111	
SP43	4	4"	②	-	-	-	SV111	SV112	
SP44	1	4"	②	-	-	-	PV110	PV111	
SP45	2	4"	②	-	-	-	PV111	PV112	
SP46	1	.75"	②③	-	-	-	REEFER MONITOR UNIT	PV122	
SP47	2	2"	②	-	-	-	LIGHTING CONTROL PANEL	PV122	
SP48	1	4"	②	-	-	-	PV122	PV123	
SP49	1	4"	②	-	-	-	PV123	PV124	
SP50	1	4"	②	-	-	-	PV124	PV125	
SP51	4	4"	②	-	-	-	SV122	SV123	
SP52	4	4"	②	-	-	-	SV123	SV124	
SP53	4	4"	②	-	-	-	SV124	SV125	
SP54	1	4"	③	-	-	-	PV122	PV121	
SP55	1	4"	②	-	-	-	PV121	PV120	
SP56	4	4"	②	-	-	-	SV122	SV121	
SP57	4	4"	②	-	-	-	SV121	SV120	
SP58	2	4"	②	-	-	-	PV121	PV130	
SP59	4	4"	②	-	-	-	SV121	SV130	

CONDUIT AND CONDUCTOR SCHEDULE									
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
SP60	2	4"	②	-	-	-	PV130	PV131	
SP61	4	4"	②	-	-	-	SV130	SV131	
SP62	4	4"	②	-	-	-	PV120	PV131	
SP63	4	4"	②	-	-	-	PV120	SV131	
SP64	4	4"	②	-	-	-	PV131	PV129	
SP65	4	4"	②	-	-	-	SV131	SV129	
SP66	4	4"	②	-	-	-	PV130	PV128	
SP67	4	4"	②	-	-	-	SV130	SV128	
SP68	4	4"	②	-	-	-	PV125	PV126	
SP69	4	4"	②	-	-	-	SV125	SV126	
SP70	2	4"	②	-	-	-	PV129	PV128	
SP71	4	4"	②	-	-	-	SV129	SV128	
SP72	2	4"	②	-	-	-	PV128	PV127	
SP73	4	4"	②	-	-	-	SV128	SV127	
SP74	2	4"	②	-	-	-	PV127	PV126	
SP75	4	4"	②	-	-	-	SV127	SV126	
SP76	5	1"	②③	-	-	-	PANEL 2WA	PV203	④
SP77	4	1"	②③	-	-	-	PV203	PV205	
SP78	1	2"	②③	-	-	-	PANEL 4WA	PV203	④
SP79	2	1"	②	-	-	-	PV205	PV206	
SP80	2	2"	②	-	-	-	PV205	PV206	
SP81	2	1"	②	-	-	-	PV206	PV207	
SP82	1	4"	②	-	-	-	PV108	PV119	
SP83	2	4"	②	-	-	-	SV108	SV119	
SP84	1	4"	②	-	-	-	PV119	PV118	④
SP85	2	4"	②	-	-	-	SV119	SV118	④
SP86	1	4"	②	-	-	-	SV118	SV201	
SP87	2	4"	②	-	-	-	SV201	SV202	④
SP88	2	4"	②③	-	-	-	SV202	MARINE BUILDING T4	
SP89	2	1"	②	-	-	-	PV203	PV204	
SP90	2	2"	②③	-	-	-	SUBSTATION #8427, SWBD #1	PV101	
SP91	3	4"	②	-	-	-	SV129	SV132	
SP92	-	-	-	-	-	-	-	-	NOT USED
SP93	-	-	-	-	-	-	-	-	NOT USED
SP94	2	4"	②	-	-	-	PV132	PV133	
SP95	3	4"	②	-	-	-	SV132	SV134	
SP96	3	4"	②	-	-	-	SV134	SV135	
SP97	3	4"	②	-	-	-	SV135	SV136	
SP98	2	4"	②	-	-	-	SV136	SV204	
SP99	2	4"	②	-	-	-	SV204	SV203	
SP100	2	4"	②	-	-	-	SV203	SV101	
SP101	2	4"	②	-	-	-	(E)P.O.T TELE. VAULT	SV113	
SP102	1	2"	②③	-	-	-	SV117	POLE YL25 (NEMA 4X ENCLOSURE)	
SP103	1	2"	②③	2/1	6/10	XHHW-2	PV117	POLE YL25 (MINI UNIT SUB)	
SP104	1	2"	②③	-	-	-	SV109	NEW WOOD POLE (NEMA 4X ENCLOSURE)	
SP105	1	2"	②③	2/1	6/10	XHHW-2	PV109	NEW WOOD POLE (MINI UNIT SUB)	
SP106	2	2"	②③	-	-	-	SV120	NEW WOOD POLE (NEMA 4X ENCLOSURE)	
SP107	1	2"	②③	2/1	6/10	XHHW-2	PV120	NEW WOOD POLE (MINI UNIT SUB)	
SP108	1	2"	②③	-	-	-	SV136	NEW MONOPOLE (NEMA 4X ENCLOSURE)	
SP109	1	2"	②③	2/1	6/10	XHHW-2	PV136	NEW MONOPOLE (MINI UNIT SUB)	
SP110	1	4"	②③	-	-	-	SV129	EXISTING T3 WHARF BUILDING	
SP111	2	2"	②③	-	-	-	SV125	NEW WOOD POLE (NEMA 4X ENCLOSURE)	
SP112	1	2"	②③	2/1	6/10	XHHW-2	PV125	NEW WOOD POLE (MINI UNIT SUB)	
SP113	2	2"	②③	-	-	-	SV123	NEW WOOD POLE (NEMA 4X ENCLOSURE)	
SP114	1	2"	②③	2/1	6/10	XHHW-2	PV123	NEW WOOD POLE (MINI UNIT SUB)	

GENERAL NOTES

1. SEE DRAWING E6.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

- ① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.
- ② PVC SHCEDULE 80.
- ③ GRS CONDUIT.
- ④ CONDUIT(S) CUT. ABANDONED IN PLACE.
- ⑤ COORDINATE WORK WITH TACOMA POWER.
- ⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.
- ⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

E6.4
SH 54 OF 54

CONT/CONS: 069982
M. ID: 091452
PHASE: BID

PIER 4 PHASE 1
REMOVAL ACTION PROJECT
CONDUIT AND CONDUCTOR SCHEDULE

APPROVED: *[Signature]*
DIRECTOR ENGR. DATE: 2-6-15
CHECKED BY: HAS
DATE: 2/5/15
PROJ. ENGR. DATE: 2/5/15
PRINTED BY: Curtis Feb 05, 2015
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BY: DATE:
APPR: DATE: