J-1604000-03 Facility and Pipeline Diagrams REV 1

INDUSTRIAL/OILY WASTE TREATMENT PLANT ADDITIONAL INFORMATION

NAVSTA OW

I. Pumps	Number	Size (gpm)	Type	Age
PS-2	2	200	C	0
PS-4	2	300	C	0
PS-7	3	500	C	0
PS-9	2	200	C	0
PS-13	4	500	C	0
IAF FEED-1	2	200	C	0
IAF FEED-2	2	200	C	4
OWS FEED	2	200	PG	0

II. Pipe	Length	Size	Type	Age
Double Wall	22,000	4" x 8"	PE	0
Double Wall	4,400	6" x 10"	PE	0
Double Wall	11,700	8" x 12"	PE	0
Double Wall	2,500	10" X 14"	PE	0
Double Wall	4,500	12" x 16"	PE	0

III. Equipment	Number	Size (gpm)	Type	Age
IAF-1	1	200	S	0
IAF-2	1	200	S	4
OWS-1	1	200	S	0
OWS-2	1	200	S	4
Filter Press	2	n/a	HYD	0
Grit Separator	2	1000	S	0
Leak Detection	1	39,000 feet	CON	0
Carbon Adsorbers	20	300 pound	n/a	0

IV. Tanks	Number	Size (gallons)	Type	Age
LET	4	150,000	S	0
OIL-1	1	114,000	S	4
OIL-2	2	50,000	S	0
OIL-3	4	12,000	S	4
Sludge	2	10,000	PE	0

NASNI IW

I. Pumps	Number	Size (gpm)	Type	Age
Phenol	2	200	C	5
LET	2	700	C	5
Chrome	2	200	C	5
Cyanide	2	200	C	5
Clarifier	2	200	Air	5
Surge	2	700	C	5
Unloading	2	200	Air	5
Sludge	2	100	PG	5
GIW-795	2	1000	C	7
GIW-796	2	1000	C	1
GIW-1340	2	100	C	17
GIW-1341	2	100	C	21
GIW-1342	2	100	C	21
GIW-1343	2	100	C	21
GIW-1346	2	100	C	13

II. Pipe	Length	Size	Type	Age
GIW	40,000	12"	VCP*	21

III. Equipment	Number	Size (gpm)	Type	Age
Filter Press	1	n/a	HYD	5
Dual Media Filter	3	300	S	5
Carbon Adsorbers	4	400	S	5
Carbon Adsorbers	5	300 pound	n/a	5

IV. Tanks	Number	Size (gallons)	Type	Age
Phenol	2	138,000	S	5
LET	2	465,000	S	5
Chrome	2	10,000	S	5
Cyanide	2	10,000	S	5
Clarifier	2	108,000	S	5
Surge	2	12,000	S	5
Chelate	2	2,500	PE	2
Peroxide	1	10,000	SS	18
Sulfuric Acid	1	1,000	PE	2
Sodium Hydroxide	1	5,000	PE	2
Sodium Bisulfite	1	1,600	FG	5
Ferrous Sulfate	1	1,600	FG	5

NASNI OW

I. Pumps	Number	Size (gpm)	Type	Age
P-1351	2	200	PG	5
P-1352	2	300	PG	5
P-K	2	200	PG	1
OWS FEED	2	200	PG	2
Surge	2	200	C	2

II. Pipe	Length	Size	Type	Age
Double Wall	6400'	6" x 10"	PE	5
Double Wall	5600'	8" x 12"	PE	5

III. Equipment	Number	Size (gpm)	Type	Age
Rotary VAC	1	n/a	S	8
DAF	1	200	S	3
OWS	1	200	S	3
Grit Separator	2	500	S	3
Leak Detection	1	12,000 feet	EP	5
Carbon Adsorbers	5	300 pound	n/a	5

IV. Tanks	Number	Size (gallons)	Type	Age
LET	1	465,000	S	3
Surge	1	6,000	S	3
Scum	1	75,000	S	21
Oil	2	75,000	S	21
Grit	1	2,000	PE	3

SUBASE OW

I. Pumps	Number	Size (gpm)	Type	Age
PS-2	2	500	PG	1
PS-3	2	300	PG	1
IAF FEED	2	50	C	3
OWS FEED	2	50	PG	3

II. Pipe	Length	Size	Type	Age
Double Wall	3400'	6" x 10"	PE	1
Double Wall	250'	8" x 12"	PE	1
Double Wall	900'	4" x 8"	PE	1

III. Equipment	Number	Size (gpm)	Type	Age
IAF	1	50	S	3
OWS	1	50	S	3
Filter Press	1	n/a	HYD	3
Leak Detection	1	4650 feet	CON	1

IV. Tanks	Number	Size (gallons)	Type	Age
LET	2	20,000	S	1
PS-2	1	8,000	FG	1
PS-3	1	4,000	FG	1

NAB OW

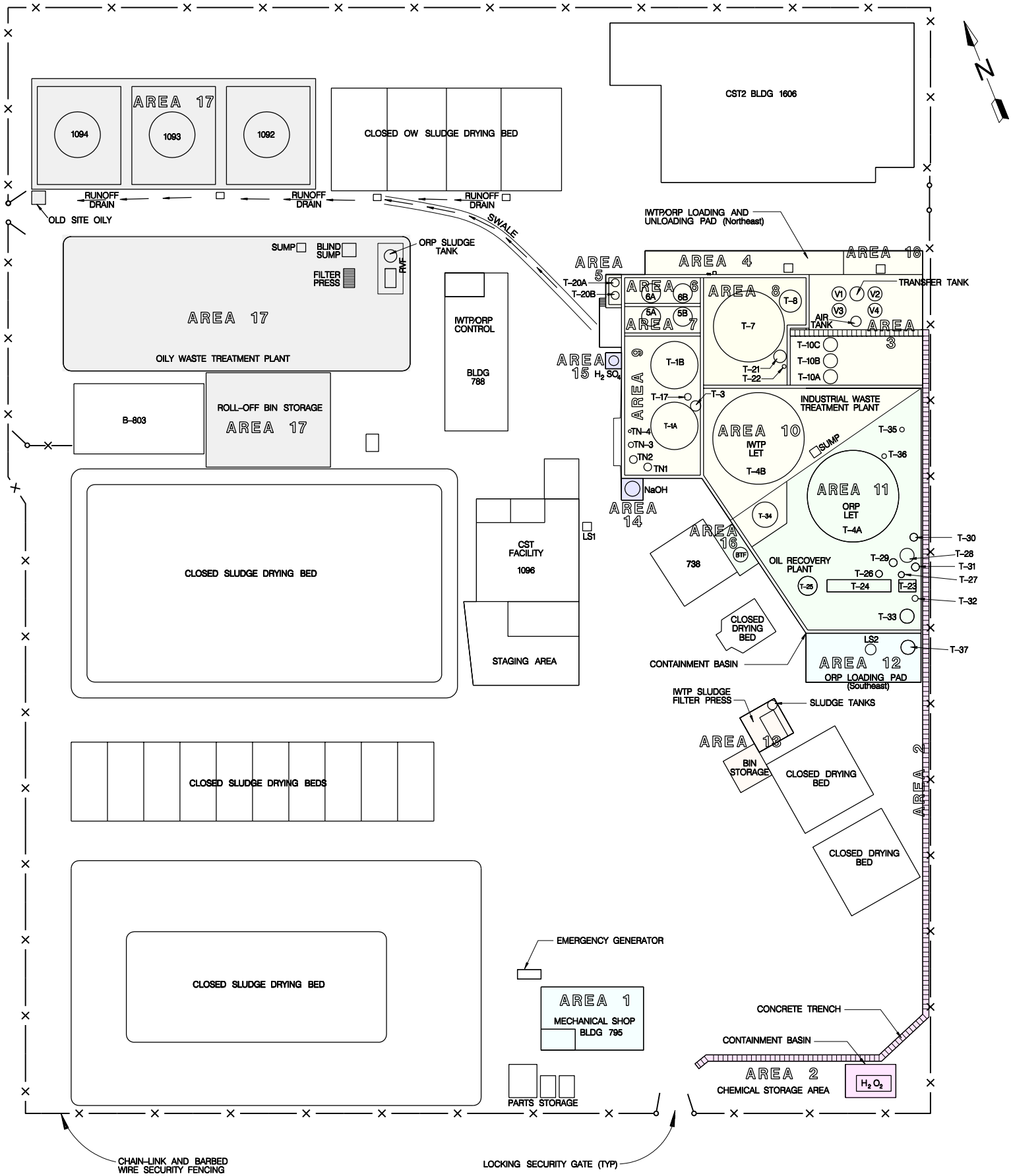
I. Pumps	Number	Size (gpm)	Type	Age
PIER 3	4	50	Air	17
PIER 8	4	50	Air	17
PIER 13	4	50	Air	0
Fuel	2	50	Air	0
PIER 21	1	50	GR	0

II. Pipe	Length	Size	Type	Age
Carrier	4,000	2"	PVC	1
Secondary	4,000	8"	S	1

III. Equipment	Number	Size (gpm)	Type	Age
OWS	1	30	S	1
Leak Detection	60	sensors	UL	1

IV. Tanks	Number	Size (gallons)	Type	Age
LET	1	8,000	S	1

OWS - oil water separtor
IAF - induced air flaotion
DAF - dissolved air flatation
PG- Progressive cavity
C - centrifugal
Air - air diaphram
PS - pump station
S - steel
SS - stainless steel
FG - fiber glass
PE - polyethylene
PVC - polyvinyl chloride
LET - load equalization tank
EP - eletric pulse cable
CON - conductivity cable
UL - ultrasonic
HYD - hydraulic
Rotary VAC- Roatry Vacume Filter
VCP* - vitrified clay lined with PVC in 1995
GR - gear



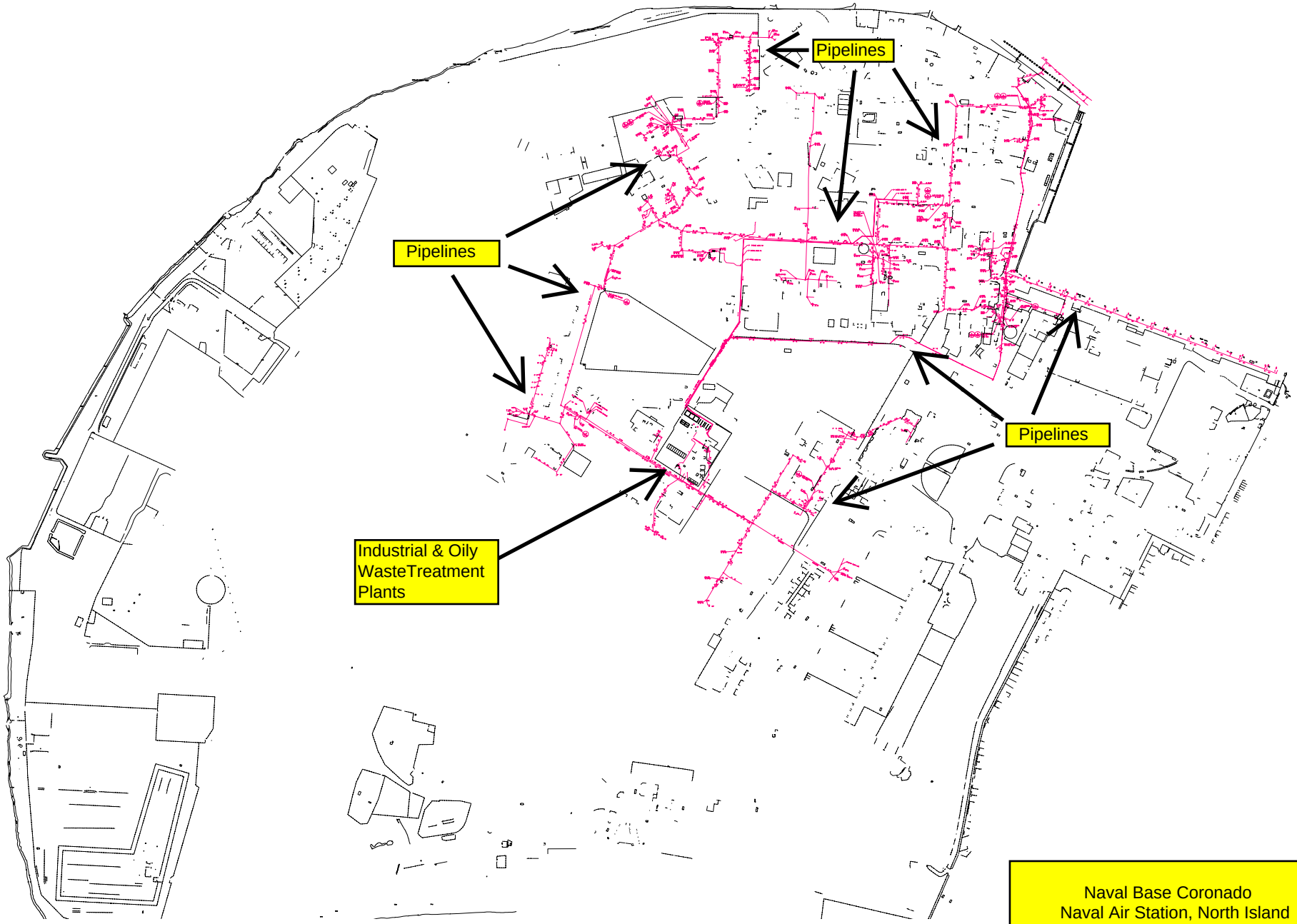
FACILITY LAYOUT
ORP

NORTH ISLAND
HAZARDOUS WASTE FACILITY
COMPLEX

NAVY PUBLIC WORKS CENTER
CODE 980
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

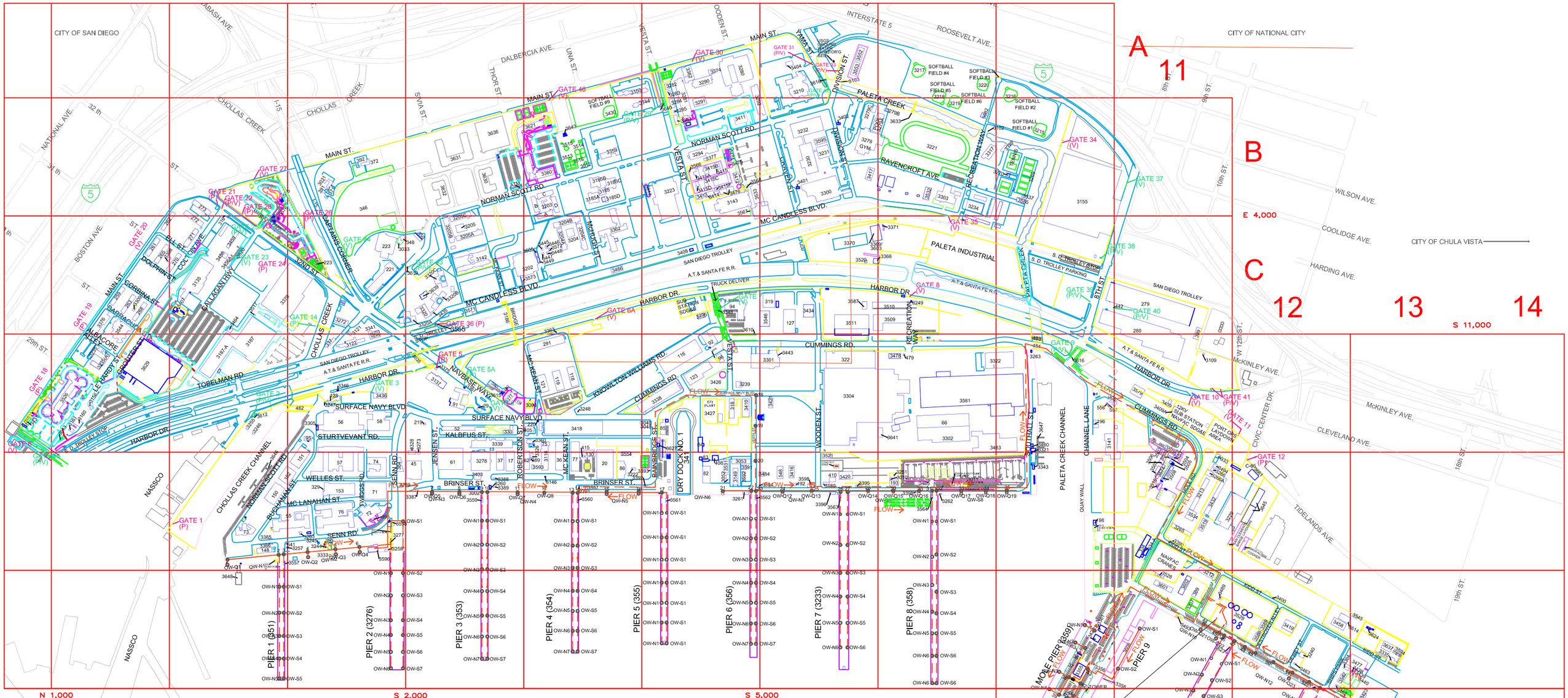
Date: 24 SEP 102
File No. ...\cgr025.dgn

FIGURE 1



Naval Base Coronado
Naval Air Station, North Island

Industrial & Oily Waste Pipelines



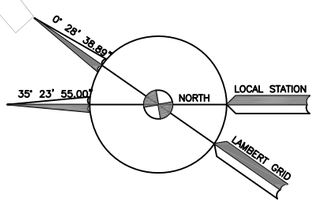
GATES: OPERATIONAL GATES

GATES: SECURED GATES

(P) PEDESTRIAN

(V) VEHICLE

FOR OFFICIAL USE ONLY



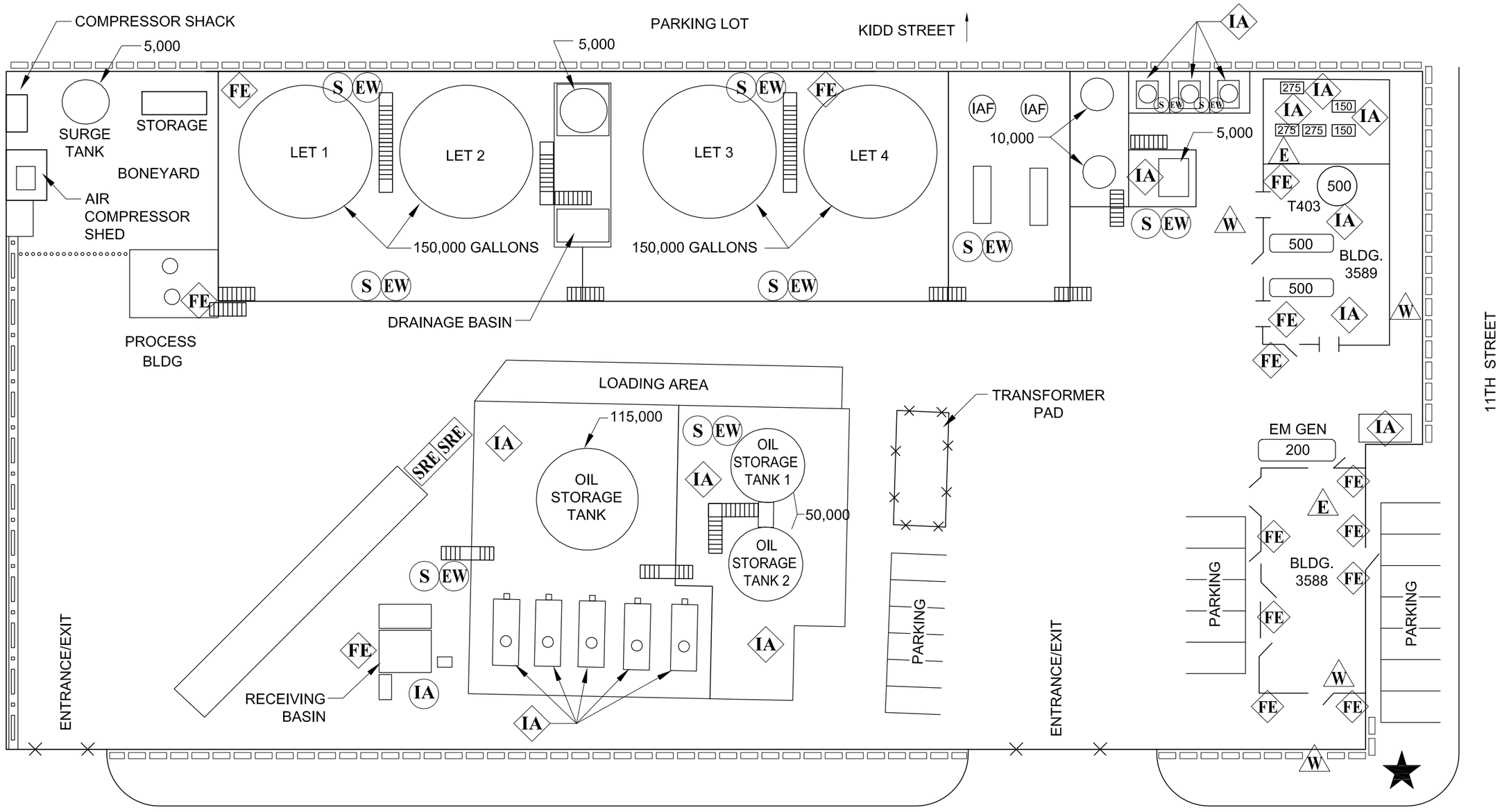
EXISTING CONDITIONS MAP OF NAVAL BASE SAN DIEGO, CA

JUNE 8, 2015

THIS DRAWING WAS MADE FROM AN AERIAL PHOTO AND SCANNED DRAWING.

CONTAINER LEGEND
AST UST
DRUM
OIL FILLED ELECTRICAL OPERATING EQUIPMENT

CONTAINER DATA UPDATED: 2015-02-25



LEGEND

- SAFE REFUGE AREA
- FE — FIRE EXTINGUISHER
- SRE — SPILL RESPONSE EQUIPMENT
- IA — HAZARDOUS WASTE STORAGE
- IA — HAZARDOUS MATERIALS STORAGE
- S — EMERGENCY SHOWER
- EW — EYE WASH STATION
- E — ELECTRICAL MAIN SHUTOFF
- W — WATER MAIN SHUTOFF
- STAIRS

NOT TO SCALE

CB&I Federal Services

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST DIVISION
SAN DIEGO, CALIFORNIA

SITE MAP

BOWTS
NAVAL BASE SAN DIEGO
SAN DIEGO, CALIFORNIA

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	OFFICE	X-REF	IMAGE
140200-B1			KB 01-27-16	Concord	---	---

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	140200-A5
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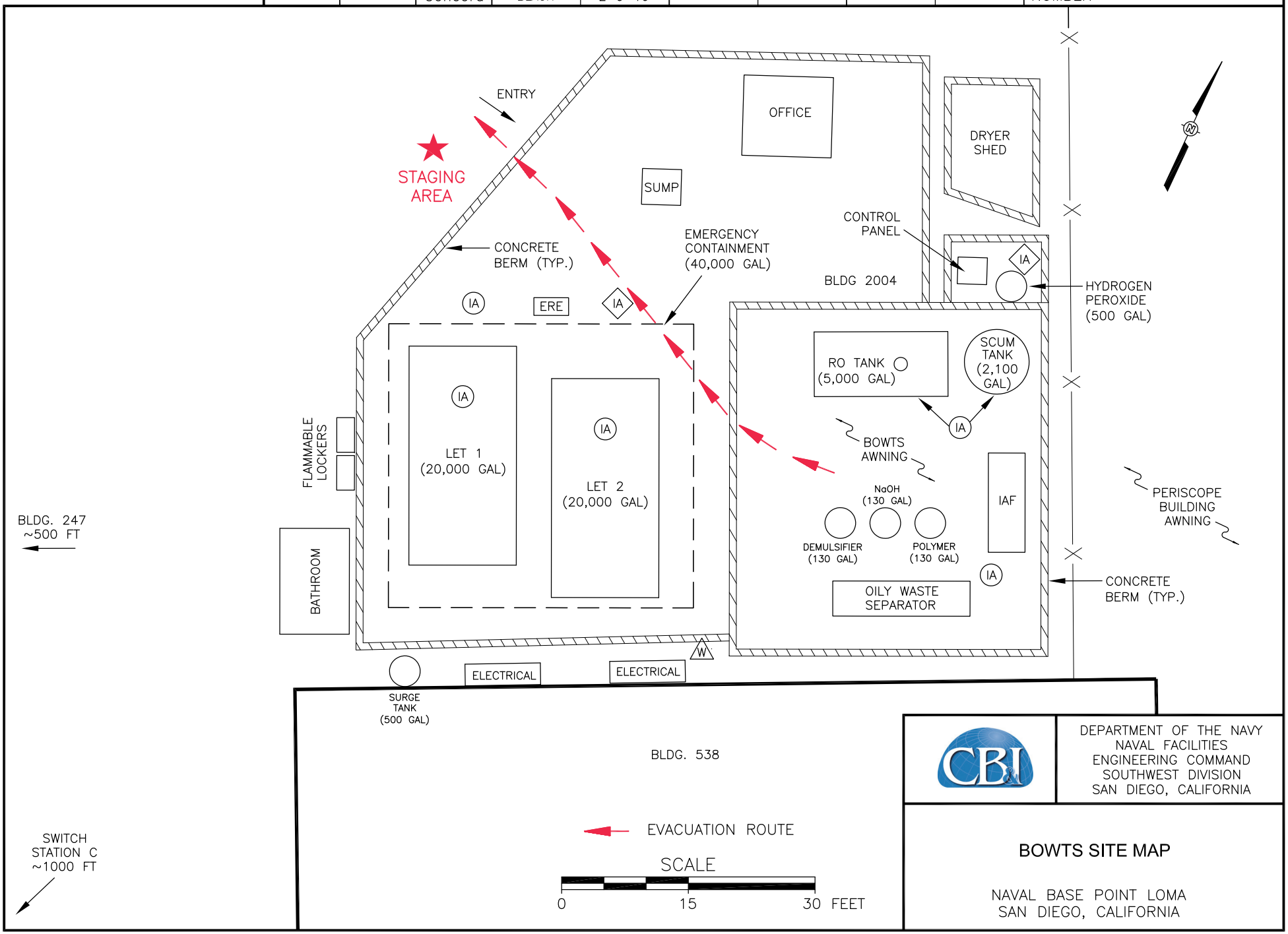
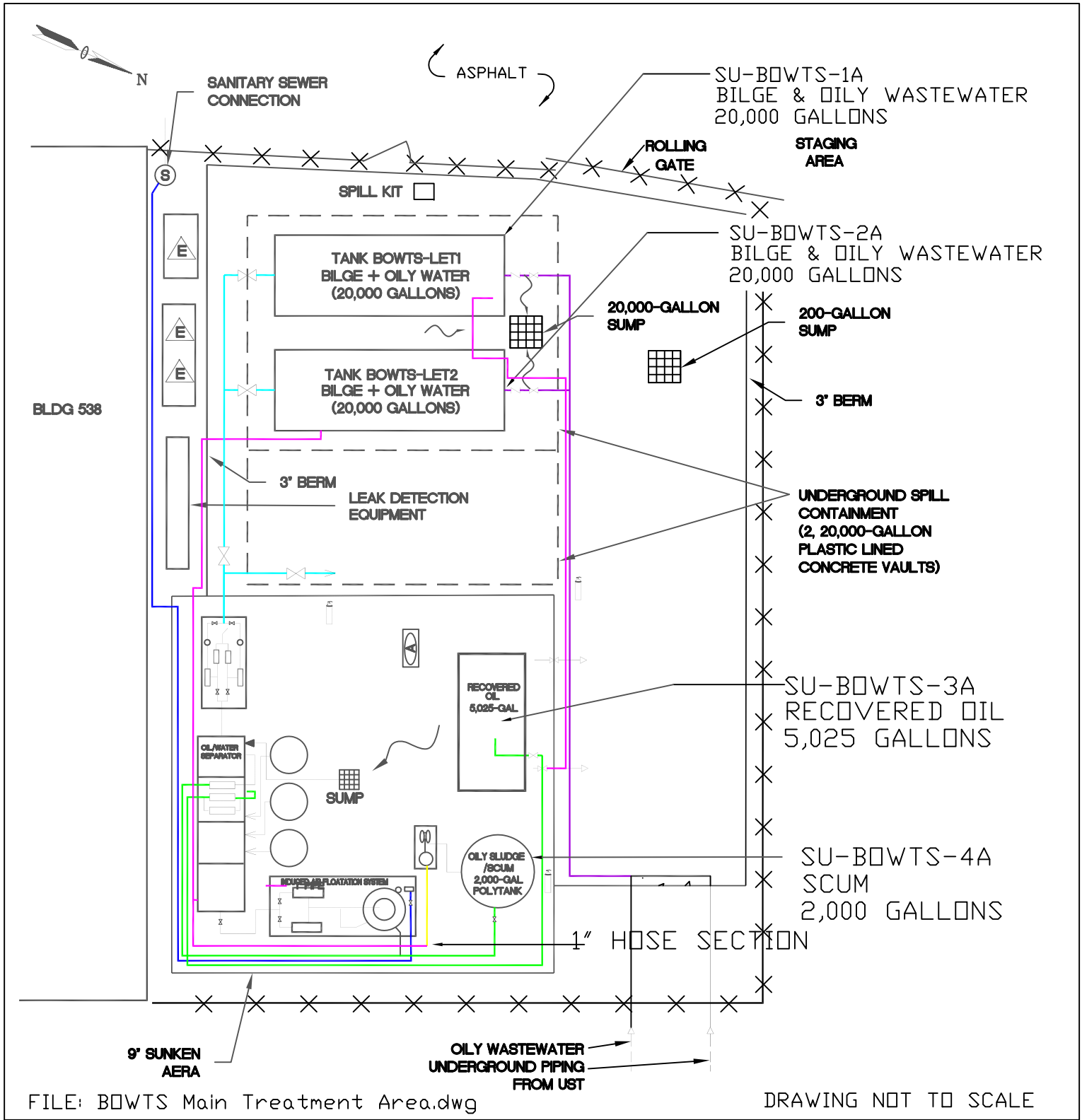
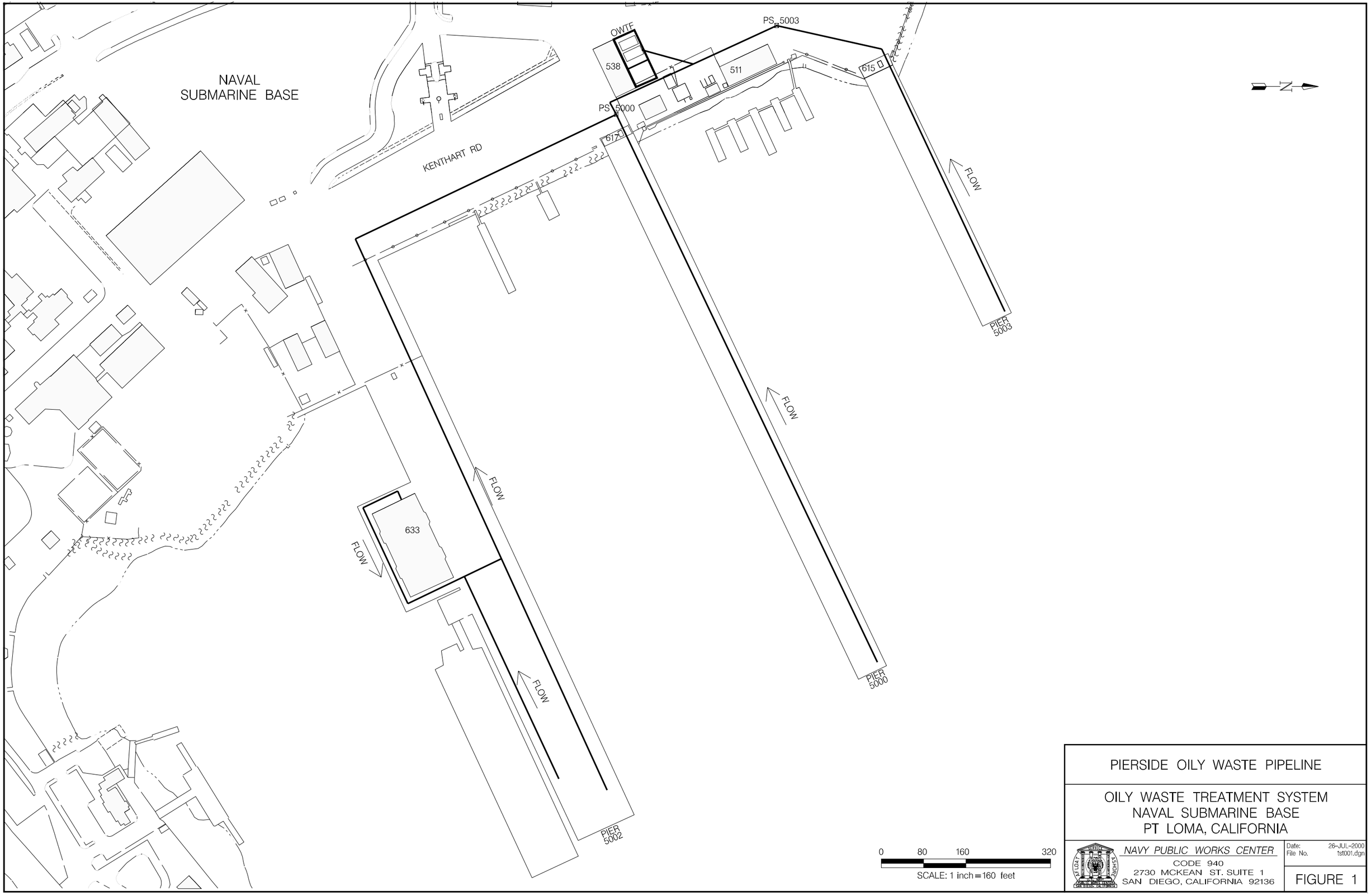




FILE: BOWTS Main Treatment Area.dwg

DRAWING NOT TO SCALE

BUILDING 2004	LEGEND
BOWTS MAIN TREATMENT AREA	EXPECTED SPILL DIRECTION SUMP
SUBASE SAN DIEGO SPCC PLAN	1" PIPE 1.5" PIPE 2" PIPE 3" PIPE 4" PIPE 6" PIPE 8" PIPE



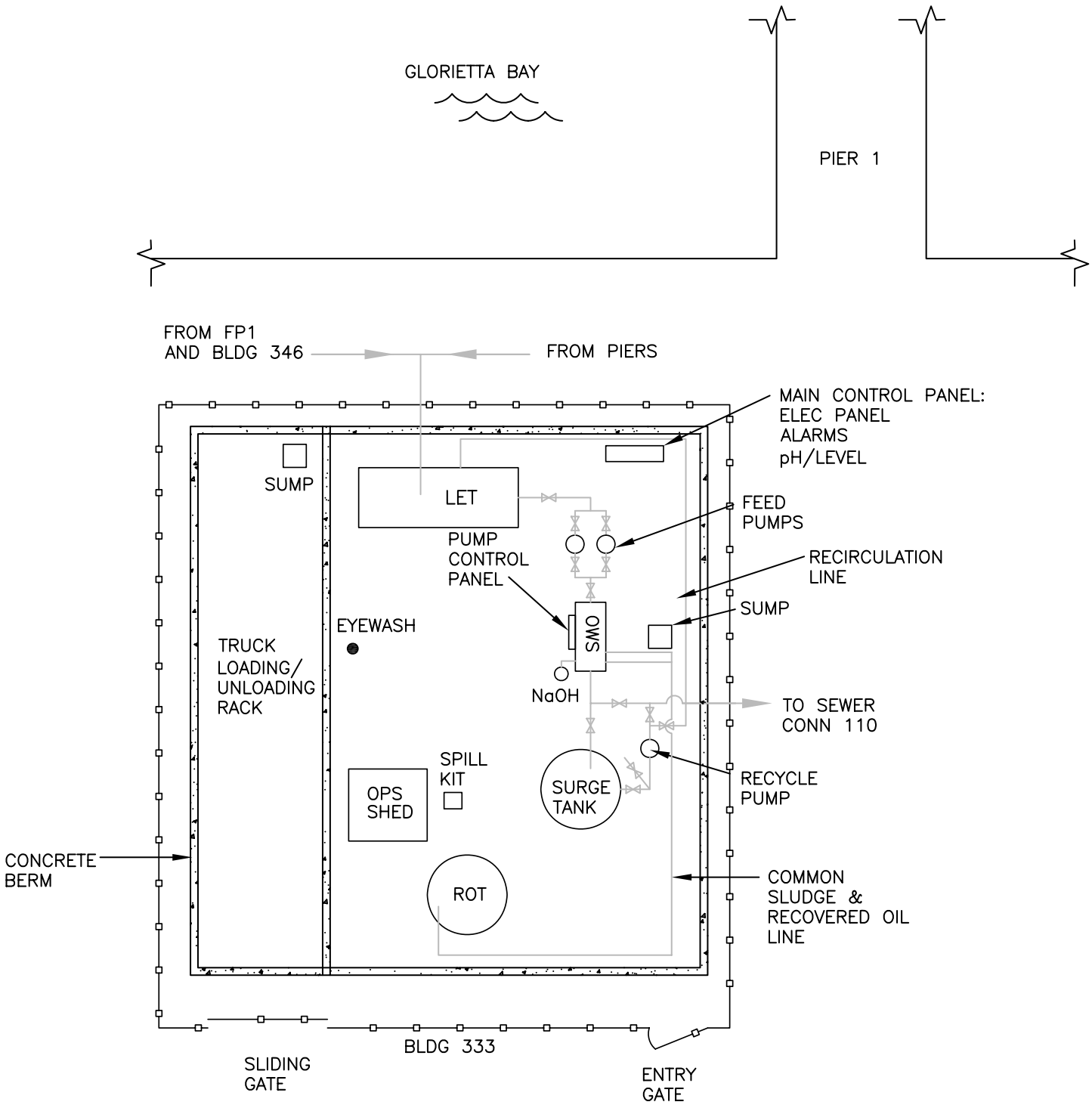
PIERSIDE OILY WASTE PIPELINE

OILY WASTE TREATMENT SYSTEM
NAVAL SUBMARINE BASE
PT LOMA, CALIFORNIA

NAVY PUBLIC WORKS CENTER
CODE 940
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

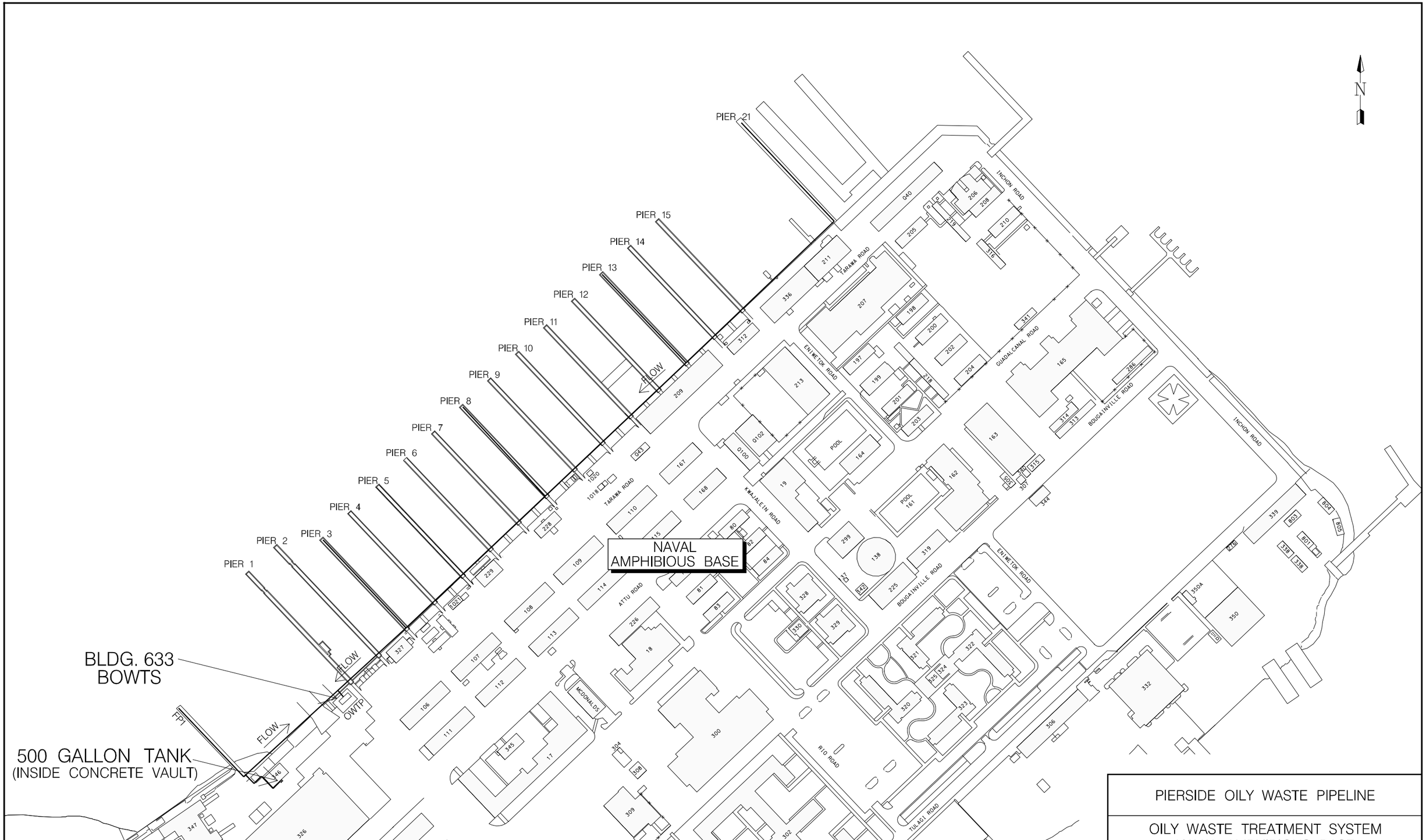
Date: 26-JUL-2000
File No. tst001.dgn

FIGURE 1



DRAWING NOT
TO SCALE

Used in: IWOW-068.01 Revision Date: 8/3/05	NAB BOWTS LAYOUT
	DRW-06



PIERSIDE OILY WASTE PIPELINE

OILY WASTE TREATMENT SYSTEM
NAVAL AMPHIBIOUS BASE
CORONADO, CALIFORNIA

NAVY PUBLIC WORKS CENTER
CODE 940
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

Date: 26-JUL-2000
File No. tst003.dgn

FIGURE 3