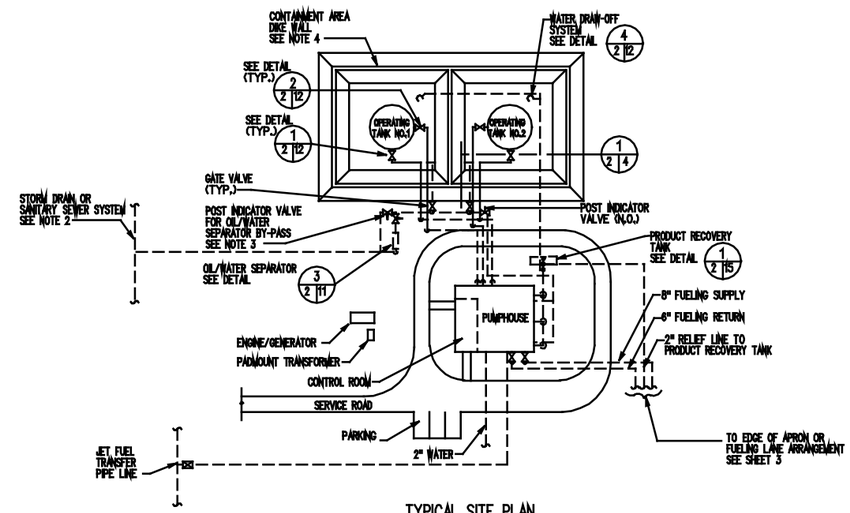
ABBREVIATIONS

#	NUMBER
&	AND
∠	ANGLE
@	AT
ø	DIAMETER OR PHASE
2/C	2 - CONDUCTOR
%	PERCENT OR LIMIT SWITCH
A	AMPERE
AAV	AUTOMATIC AIR VENT
AB	ANCHOR BOLTS
AFF	ABOVE FINISHED FLOOR
AFFF	AQUEOUS FILM FORMING FOAM
AFG	ABOVE FINISHED GRADE
AISC	AMERICAN INSTITUE OF STEEL CONSTRUCTION
ALUM	ALUMINUM
API	AMERICAN PETROLEUM INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWG	AMERICAN WIRE GAGE
BASE P	BASE PLATE
BPCV	BACK PRESSURE CONTROL VALVE
BPV	BYPASS VALVE
BBLS	BARRELS
BOT	BOTTOM
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CENTER-TO-CENTER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CKT	CIRCUIT
CL OR ℄	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CONT	CONTINUED OR CONTINUOUS
CT	CURRENT TRANSFORMER
CTRL	CONTROLLER
CU	COPPER
CV	NONSURGE CHECK VALVE W/RATE OF FLOW CONTROLLER
CW	COOL WHITE
D	DEPTH
dB	DECIBELS
DIA	DIAMETER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
E-STOP	EMERGENCY STOP
EA	EACH
EF	EXHAUST FAN
EL OR ELEV	ELEVATION
ENCL	ENCLOSURE
ENG GEN	ENGINE GENERATOR
EOL	END OF LINE RESISTOR
ESO	EMERGENCY SHUTOFF VALVE
EW	EACH WAY
EXIST	EXISTING
EXPAN	EXPANSION
F	FAHRENHEIGHT
FIN	FINISHED
FP	FUELING PUMP
FSI	FILTER SEPARATOR ISSUE
FSR	FILTER SEPARATOR RECEIVING
FSV	FUELING STATION VENTURI
FSM	FUELING STATION METER
FT	FEET
FTP	FUEL TRANSFER PUMP
FVNR	FUEL VOLTAGE NON-REVERSING
FV-1	FLUSHING VALVE
GA	GAGE OR GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GFR	GROUND FAULT RELAY
GND	GROUND
GPM	GALLONS PER MINUTE
H	HIGH
H-O-A	HAND-OFF-AUTOMATIC
HHLA	HIGH HIGH LEVEL ALARM
HID	HIGH INTENSITY DISCHARGE
HLA	HIGH LEVEL ALARM
HLV	HIGH LIQUID LEVEL SHUTOFF VALVE
HM	HOLLOW METAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IF	INSULATING FLANGE
INV	INVERT
KIPS	THOUSAND POUNDS
KVA	KILO-VOLT AMPERES
KVAR	KILO-VOLT REACTIVE
KW	KILO-WATTS
L	LOW
L-N	LINE-TO-NEUTRAL
LLA	LOW LEVEL ALARM
LOC	LOCAL
mA	MILLIAMPS
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MCM	THOUSAND CIRCULAR MILS
MFGS	MANUFACTURERS
MIN	MINIMUM OR MINUTE
NT	INPUT
MTD	MOUNTED
NATS	NON-AUTOMATIC TRANSFER SWITCH
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN OR NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OV	OVERFILL VALVE
PBRD	PANELBOARD
PCV	PRESSURE CONTROL VALVE
PEJ	PREMOLDED EXPANSION JOINT
PH	PHASE
PIT	PRESSURE INDICATING TRANSMITTER
PL	PLATE
PR	PAIR
PROJ	PROJECTION
PRP	PRODUCT RECOVERY PUMP
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POTENTIAL TRANSFORMER
PTFE	POLY TEKTRA FLORA ETHYLENE
PVC	POLYVINYL CHLORIDE
PPCV	PANTOGRAPH PRESSURE CONTROL VALVE
R	RADIUS
RCV	REFUELING CONTROL VALVE
RED	REDUCER
REINF	REINFORCED
REQ'D	REQUIRED
RVNR	REDUCED VOLTAGE NON-REVERSING
SC	SAMPLE CONNECTION
SCH	SCHEDULE
SEL	SELECTOR
SF	SUPPLY FAN
SFT	SIGHT FLOW INDICATOR
SHT	SHEET
SP	SPARE
SPST	SINGLE POLE, SINGLE THROW
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
SW	SWITCH
T&B	TOP AND BOTTOM
TERM	TERMINAL(S)
THK	THICK
TYP	TYPICAL
UL	UNDERWRITER'S'S LABORATORIES,INC.
UOI	UNLESS OTHERWISE INDICATED
V	VOLT(S)
VA	VALVE
VAC	VOLTS, ALTERNATING CURRENT OR VACUUM
W	WATT OR WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WWM	WELDED WIRE MESH
X'FER	TRANSFER
3-1/C	THREE SINGLE CONDUCTORS



TYPICAL SITE PLAN
SCALE: 1"=40'

NOTES

1. PROVIDE APPROPRIATE ENVIRONMENTAL MONITORING OF TANKS AND PIPING SYSTEMS AS REQUIRED BY FEDERAL, STATE AND LOCAL REGULATIONS.
2. DISCHARGE FROM THE OIL/WATER SEPARATOR SHALL BE ROUTED TO EITHER THE STORM DRAINAGE SYSTEM OR THE SANITARY SEWER SYSTEM AS DIRECTED BY THE BASE ENVIRONMENTAL COORDINATOR.
3. OIL-WATER SEPARATOR BY-PASS SHALL BE PROVIDED UNLESS PROHIBITED BY LOCAL REGULATIONS.
4. CONTAINMENT AREA DIKE WALL CONFIGURATION SHALL MEET CURRENT APPLICABLE AIR FORCE CRITERIA.
5. SITING CLEARANCE REQUIREMENTS SHALL CONFORM TO DM-21, AFR 127-100 AND AFR 88-14.

REVISION	DESCRIPTION	DATE	APPROVED

SUPERSEDES PREVIOUS EDITIONS OF THIS DRAWING

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HEADQUARTERS AIR FORCE ENGINEERING AND SERVICES CENTER
TYNDALL AFB, FLORIDA 32403

ACCEPTED: DATE: 1-22-81
USAF FUEL FACILITIES ENGINEER

APPROVED FOR CHIEF OF STAFF, U.S. AIR FORCE

CHIEF, ENGINEERING DIVISION
DATE: 1-22-81

AIR FORCE STANDARDS
AIRCRAFT DIRECT FUELING SYSTEM
TYPE IV

UNVERIFIED DRAFT
ABBREVIATIONS/TYPICAL SITE PLAN

SCALE: SHOWN
SPEC. NO. 78-24-28-88-AF
SHEET 2
DRAWING NO. AN 78-24-28