LEGEND

Symbol	Description
	EXISTING PIPE
	EXISTING PIPE, FIXTURE OR EQUIPMENT TO BE REMOVE
	SOIL OR WASTE PIPING ABOVE FLOOR
	SOIL OR WASTE PIPING BELOW FLOOR
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
SD	STORM DRAIN
SD	STORM DRAIN BELOW FLOOR
RWL	RAINWATER LEADER PIPING
OFD	OVERFLOW DRAINAGE PIPING
F	FIRE MAIN PIPING
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
G	NATURAL GAS PIPING
CO_2	CARBON DIOXIDE PIPING
N_2	NITROGEN PIPING
N_2O	NITROUS OXIDE PIPING
O_2	OXYGEN PIPING
MA	MEDICAL AIR PIPING
MV	MEDICAL VACUUM PIPING
PDP	PERFORATED DRAIN PIPE
SDP	SOLID DRAIN PIPE
	PIPE UP
	PIPE DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	CAPPED PIPE
	PIPE SLEEVE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
GCO	GRADE CLEANOUT
FSK-1	FLOOR SINK
FD-1	FLOOR DRAIN
RD-1	ROOF DRAIN
OFD-1	OVERFLOW DRAIN
	POINT OF CONNECTION
1	SHEET NOTE DESIGNATION
EQPT 1	EQUIPMENT DESIGNATION EQUIPMENT NUMBER

Symbol	Description
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	ANGLE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	GAS COCK
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
PRV	PRESSURE REDUCING VALVE ASSEMBLY
S	SOLENOID VALVE
	STRAINER WITH HOSE BIBB
	HOSE BIBB
"A"	SHOCK ABSORBER, LETTER INDICATES PDI STANDARD
FS	FLOW SWITCH
TS	TAMPER SWITCH
M	METER
	PRESSURE GAUGE
	THERMOMETER
	FLEXIBLE CONNECTION
	UNION
	FLANGED CONNECTION
	REDUCER
	DIRECTION FLOW

ABBREVIATION

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AS	AUTOMATIC FIRE SPRINKLER
AV	ACID VENT
AW	ACID WASTE
BFG	BELOW FINISHED GRADE
BHP	BRAKE HORSEPOWER
BV	BALANCING VALVE
CA	COMPRESS AIR
CAC	CALIFORNIA ADMINISTRATIVE CODE
CD	CONDENSATE DRAIN
CFF	CAPPED FOR FUTURE CONNECTION
CFM	CUBIC FEET PER MINUTE
CHV	CHECK VALVE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CU. FT.	CUBIC FEET
CU. IN.	CUBIC INCHES
CW	COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DR	DRAIN
DW	DISHWASHER
E	EXISTING
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
F	FIRE MAIN
FCO	FLOOR CLEANOUT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN.FLR.	FINISHED FLOOR
FSK	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
GAL	GALLON
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
IN	INCHES
I.E.	INVERT ELEVATION
KW	KILOWATT
LAV	LAVATORY
LB	POUND
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
N	NEW
NB	NICKEL BRASS
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAINAGE
OS&Y GV	OUTSIDE STEM AND YOKE GATE VALVE
PAS	PRE-ACTION AUTOMATIC SPRINKLER
PD	PRESSURE DROP
PG	PRESSURE GAUGE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE ASSEMBLY
PSI	POUNDS PER SQUARE INCH
R	RELOCATE OR RELOCATED
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RWL	RAINWATER LEADER
S	SOIL
SD	STORM DRAINAGE
SOV	SHUT-OFF VALVE IN RISER
SK	SINK
SP. D	SPRINKLER DRAIN
⊕	SQUARE FEET
SQ. FT.	SQUARE FEET
SS	SANITARY SEWER
SSK	SERVICE SINK
TDL	TOTAL DEVELOPED LENGTH OF PIPE
TP	TRAP PRIMER
TS	TAMPER SWITCH
TW	TEMPERED WATER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT
VAC	VACUUM
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WHB	WALL HYDRANT BOX
WSFU	WATER SUPPLY FIXTURE UNITS

GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO ALL P SERIES DRAWINGS.
2. NOT ALL SYLMBOLS, ABBREVIATIONS AND NOTES MAY BE USED FOR THIS PROJECT.
3. REFER TO SPECIFICATION, DIVISION 1 FOR ADDITIONAL PROVISIONS REQUIRED UNDER THIS CONTRACT.
4. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.
6. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES AND CLEANOUTS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE UNACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICE.
7. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY ALL EXISTING CONDITIONS AND COORDINATION OF WORK BETWEEN TRADES.
8. KEEP DEMOLITION AND CUTTING TO THE MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK.
9. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF WORK.
10. NO CUTTING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE ARCHITECT.
11. PROVIDE OFFSETS AND TRANSITIONS IN PIPING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
12. ALL SUPPLY DUCTS EXISTING AND NEW TO BE INSULATED PER SPECIFICATION.
13. ALL NEW PIPING AND ANY EXISTING DAMAGED INSULATION FOR PIPING TO BE INSULATED PER SPECIFICATION.
14. THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. CONTINUED OPERATION OF FACILITY SHALL NOT BE HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED DUE TO DIFFICULTY OF WORKING OVER & AROUND EMPLOYEES,FURNITURE & ETC., & DUE TO HOURS OF THE DAY IN WHICH WORK MAY BE PERFORMED, WHEN SUBMITTING A BID.
15. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
16. PLATFORMS, CURBS AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
17. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
18. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER'S REP.

ANCHORAGE, SUPPORTS, & SEISMIC RESTRAINTS

1. ANCHORAGE OF ALL EQUIPMENT TO BE INSTALLED, AS A PART OF THIS PROJECT SHALL DETAILED ON THESE PLANS, EXCEPT FOR THE FOLLOWING:
   a. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
   b. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   c. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
2. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.
3. ALL ANCHORAGE, SUPPORT AND SEISMIC RESTRAINT WORK TO BE IN ACCORDANCE WITH THE APPROVED TIO PROGRAM.

DRAWING INDEX

DRAWING		SCALE
P000	PLUMBING NOTES, LEGEND, SCHEDULES, AND SHEET INDEX	NONE
P200	SUB LEVEL PLUMBING FLOOR PLANS & SECTIONS	SEE DWG SHEET
P201	GROUND LEVEL PLUMBING FLOOR PLANS & SECTIONS	SEE DWG SHEET
P300	PLUMBING RISERS & DETAILS	NONE

PUMPS

CODE	DESCRIPTION	SERVICE	CAPACITY		MOTOR				MANUFACTURER	WEIGHT (LBS)	REMARKS
			GPM	HD PSI	HP	RPM	VOLT	PHASE			
FOP-1	DUPLEX FUEL OIL TRANSER PUMP SET	GROUND LEVEL THERMAL FLUID HEATERS	10	50	1/2	1750	460	3	PREFERRED UTILITIES OR EQUAL	TBD	PREFERRED UTILITIES AUTOMATIC FUEL OIL CUSTOM PACKAGE TRANSFER PUMP SET WITH PWC CONTROLLER CPAN4-CDHRXXX, STRAINERS, PRESSURE RELIEF VALVES AND PRESSURE GAUGES. VERIFY EXISTING CONTROL SIGNALS FROM THERMAL FLUID HEATERS ARE COMPATIBLE. PROVIDE NEW AS REQUIRED. PROVIDE "PUMP ON" SIGNAL FROM FORK LIFT FUEL STATION PRESSURE SWITCH. PROGRAM CONTROLLER TO RUN PUMPS 5 MINUTES DAILY TO CIRCULATE FUEL.
FOP-2	DUPLEX FUEL OIL TRANSFER PUMP SET	GROUND LEVEL GENERATORS	5.7	50	1/2	1140	208	3	PREFERRED UTILITIES OR EQUAL	TBD	PREFERRED UTILITIES AUTOMATIC FUEL OIL PACKAGE TRANSFER PUMP SET ATPS-201 WITH PWC CONTROLLER CPAN4-CDHRXXX, STRAINERS, PRESSURE RELIEF VALVES AND PRESSURE GAUGES. VERIFY EXISTING CONTROL SIGNALS FROM GENERATOR DAY TANKS ARE COMPATIBLE. PROVIDE NEW AS REQUIRED. PROGRAM CONTROLLER TO RUN PUMPS 5 MINUTES DAILY TO CIRCULATE FUEL.
FORP-1	FUEL OIL RETURN PUMP	GROUND LEVEL GENERATOR DAY TANK	13	50	3/4	1140	208	3	PREFERRED UTILITIES OR EQUAL	99	PREFERRED UTILITIES L0-203 PUMP AND MOTOR ASSEMBLY. MOUNT PUMP ABOVE EXISTING DAYTANK.

Revisions: | Date

CONSULTANTS:

m+nlb
MAZZETTI NASH LIPSEY BURCH
530 Bush Street, Suite 300
San Francisco, CA 94108-3623
TEL: 415.362.3266
FAX: 415.362.3267
www.mazzetti.com
PROJECT NUMBER: 110-119

COPYRIGHT © 2010 MAZZETTI NASH LIPSEY BURCH, INC. ALL RIGHTS RESERVED WORLDWIDE

ARCHITECT/ENGINEERS:

MEI
architecture + interiors
239 9TH STREET, SUITE 201 SAN FRANCISCO, CA 94103
T: (415)682-7276 F: (415)682-7339 www.meiarchitects.com

Drawing Title
PLUMBING NOTES, LEGEND, SCHEDULES, & SHEET INDEX

Approved: Project Director

100% CONSTRUCTION DOCUMENTS

Project Title
DIESEL FUEL SYSTEM BUILDING 205

Location
VA MEDICAL CENTER - SAN FRANCISCO

Date: APRIL 8, 2013 | Checked | Drawn

Project Number: VA #662-13-211, MEI #119

Building Number: 205

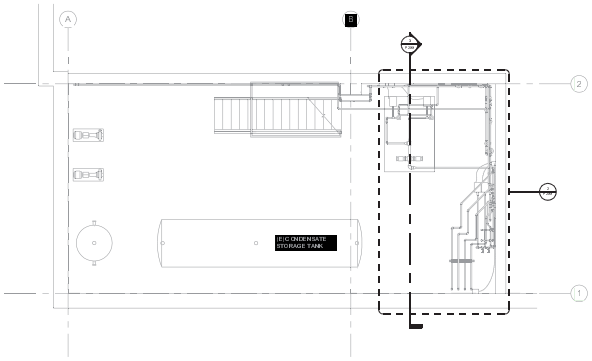
Drawing Number: **P000**

Dwg. of --

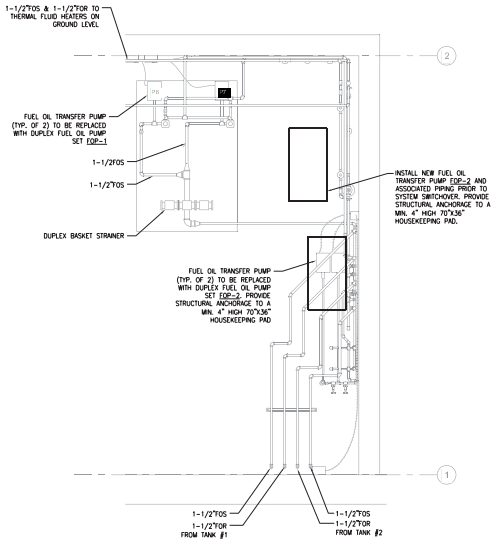
Office of Facilities Management

Department of Veterans Affairs

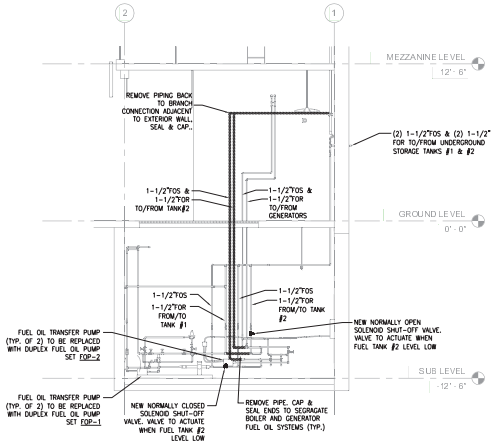
one eighth inch = one foot; one quarter inch = one foot; three eighths inch = one foot; one half inch = one foot; three quarters inch = one foot; one inch = one foot; one and one half inches = one foot; three inches = one foot



1 P200 **SUBLEVEL FLOOR PLAN**
SCALE: 1/4" = 1'-0"



2 P200 **ENLARGED SUBLEVEL FLOOR PLAN**
SCALE: 1/2" = 1'-0"



3 P200 **SUBLEVEL FUEL OIL PIPING SECTION**
SCALE: 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

CONSULTANTS:

m+nb
MAZZETTI NASH LIPSEY BURCH
530 Bush Street, Suite 300
San Francisco, CA 94108-3623
TEL: 415.362.3266
FAX: 415.362.3267
www.mazzetti.com
PROJECT NUMBER: 110-119

COPYRIGHT © 2010 MAZZETTI NASH LIPSEY BURCH, INC.
ALL RIGHTS RESERVED WORLDWIDE

ARCHITECT/ENGINEERS:

IME
architecture + interiors
SAN FRANCISCO, CALIFORNIA · SACRAMENTO, CALIFORNIA
TEL 415.362.2711 FAX 415.362.2516 www.imeparch.com

Drawing Title: **SUBLEVEL PLUMBING FLOOR PLANS & SECTIONS**

Approved: Project Director

Project Title: **DIESEL FUEL SYSTEM BUILDING 205**

Location: **VA MEDICAL CENTER - SAN FRANCISCO**

Date	Checked	Drawn
APRIL 8, 2013		

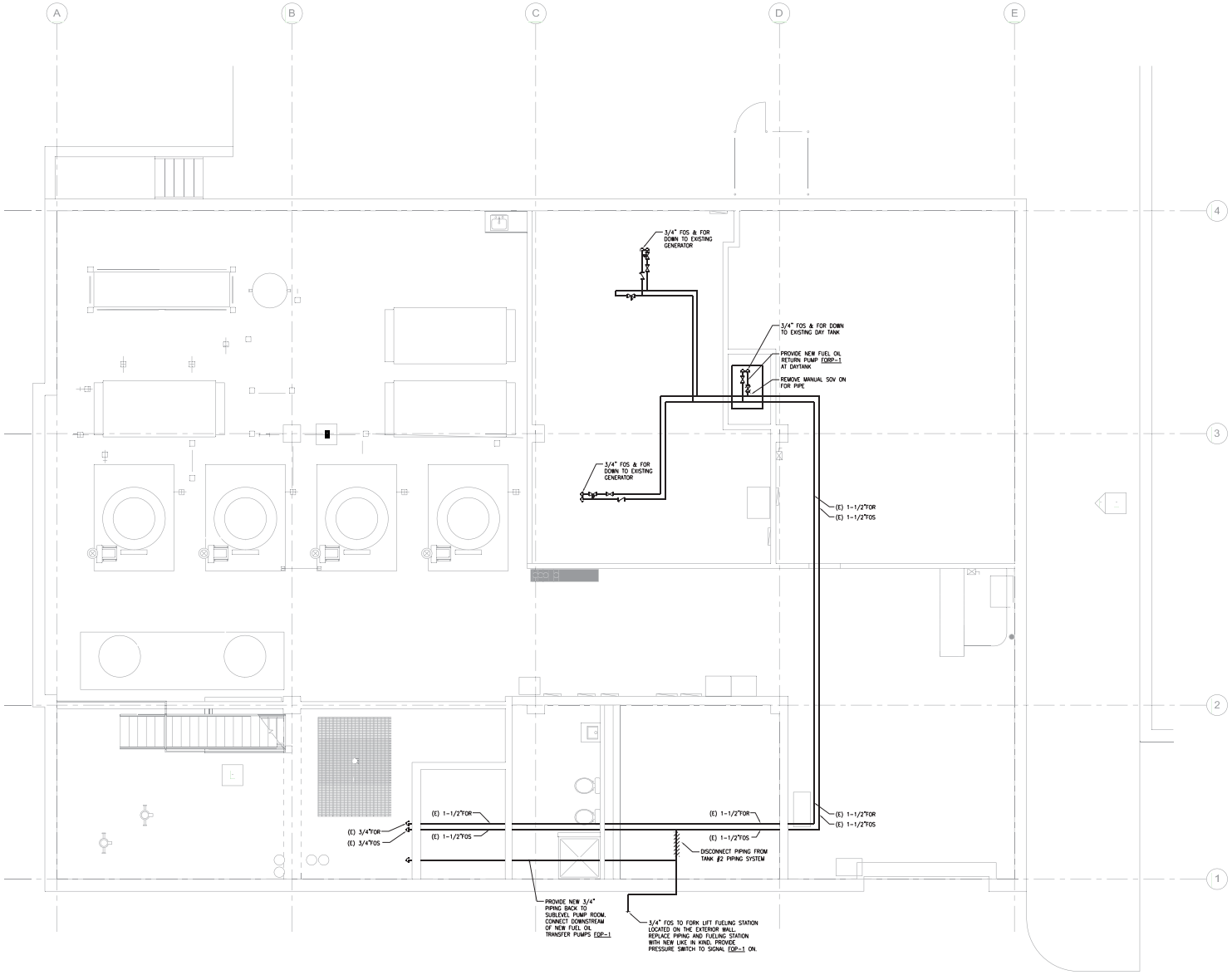
Project Number: VA 8662-13-211 M8182118

Building Number: 205

Drawing Number: **P200**
Dwg. of –

Office of Facilities Management

VA FORM 08-6231, OCT 1978



1 P201 **GROUND FLOOR PLAN**

SCALE: 1/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

CONSULTANTS:

m+nlb
MAZZETTI NASH LIPSEY BURCH
530 Bush Street, Suite 300
San Francisco, CA 94108-3623
TEL: 415.362.3266
FAX: 415.362.3267
www.mazzetti.com
PROJECT NUMBER: 110-119
COPYRIGHT © 2010 MAZZETTI NASH LIPSEY BURCH, INC.
ALL RIGHTS RESERVED WORLDWIDE

ARCHITECT/ENGINEERS:

IMB architecture + interiors
SAN FRANCISCO, CALIFORNIA 94104
TEL 415.362.2711 FAX 415.362.2716 www.imbarch.com

Drawing Title: **GROUND LEVEL PLUMBING FLOOR PLANS & SECTIONS**

Approved: Project Director

Project Title: **DIESEL FUEL SYSTEM BUILDING 205**

Location: VA MEDICAL CENTER - SAN FRANCISCO

Date: APRIL 8, 2013 | Checked | Drawn

Project Number: VA 8662-13-211 M512118

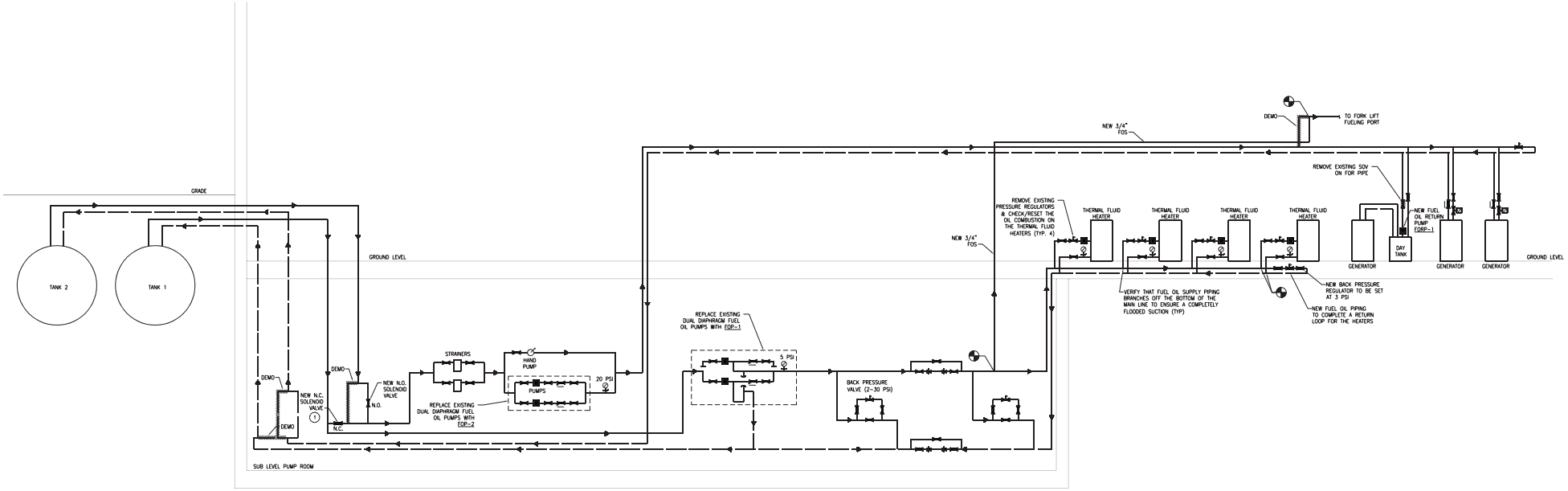
Building Number: 205

Drawing Number: **P201**

Dwg. of –

Office of Facilities Management

VA FORM 08-6231, OCT 1978



KEY NOTES:

1. PROGRAM NEW CONTROLLER FOR FOP-2 TO OPEN NEW N.C. SOLENOID VALVE AND CLOSE THE NEW N.O. SOLENOID VAVLE WHEN TANK #2 FUEL LEVEL IS LOW.

1 / P300 **FUEL OIL RISER**

SCALE: NTS

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

CONSULTANTS:

mn+nlb
MAZZETTI NASH LIPSEY BURCH
530 Bush Street, Suite 300
San Francisco, CA 94108-3623
TEL: 415.362.3266
FAX: 415.362.3267
www.mazzetti.com
PROJECT NUMBER: 110-119

COPYRIGHT © 2010 MAZZETTI NASH LIPSEY BURCH, INC.
ALL RIGHTS RESERVED WORLDWIDE

ARCHITECT/ENGINEERS:

LME architecture + interiors
2 BUSH STREET, SUITE 300 SAN FRANCISCO, CA 94108
T: 415.362.3267 F: 415.362.3268 www.lmeinc.com

Drawing Title: **PLUMBING RISERS & DETAILS**

Approved: Project Director

Project Title: **DIESEL FUEL SYSTEM BUILDING 205**

Location: **VA MEDICAL CENTER - SAN FRANCISCO**

Date: APRIL 8, 2013 | Checked | Drawn

Project Number: VA A662-13-211 MEI#119

Building Number: **205**

Drawing Number: **P300**

Dwg. of –

Office of Facilities Management

VA FORM 08-6231, OCT 1978