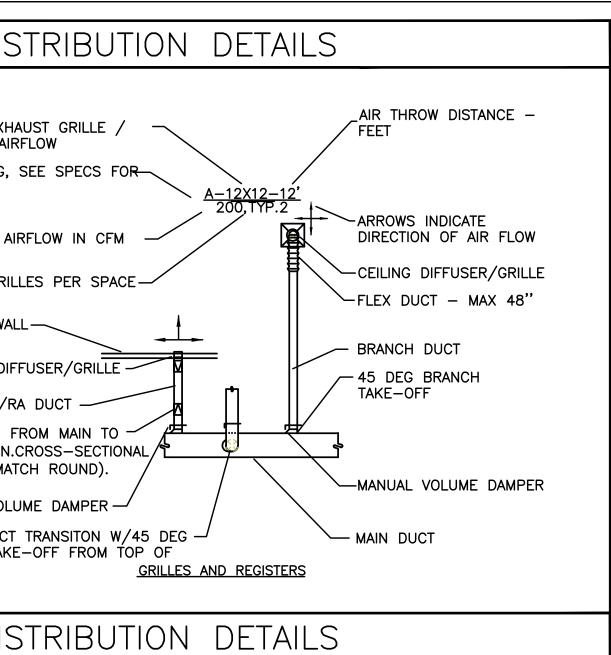
Su	IICAL LEGEND			AIR DISTR
		AHU	ABOVE FINISH FLOOR AIR HANDLING UNIT	
[] [Ø] ······RE		BHP ·····	BOTTOM OF DUCT BRAKE HORSEPOWER BOTTOM OF GRILLE	SUPPLY/EXHAUST ( DIFFUSER AIRFLOW
		BTU	BRITISH THERMAL UNITS CUBIC FEET PER MINUTE	GRILLE TAG, SEE S DETAILS
	RECTIONAL AIR FLOW		CONTINUATION	
	ANUAL VOLUME DAMPER	DB	DOMESTIC COLD WATER DRY BULB DIAMETER	BALANCED AIRFLOW
	JPPLY/OUTSIDE AIR DUCT UP &	DIST. ····· EXH ·····	DISTRIBUTION EXHAUST AIR	TYPICAL GRILLES P
		EWB	ENTERING DRY BULB TEMPERATURE ENTERING WET BULB TEMPERATURE ENTERING WATER TEMPERATURE	FINISHED WALL
	ETURN AIR DUCT UP & DOWN	FF FIXT	FINISH FLOOR FIXTURE	SIDEWALL DIFFUSER
		FPM	FLAT ON BOTTOM FEET PER MINUTE FEET PER SECOND	ROUND SA/RA DUC TRANSITION FROM N
$\bigotimes$		FT GA		ROUND (MIN.CROSS AREA TO MATCH RO
) ·····DE ) ·····EX	KISTING	GPM H	GREASE EXHAUST AIR DUCT GALLONS PER MINUTE HEIGHT	MANUAL VOLUME D
) ·····CC	ONNECT TO EXISTING		HORSEPOWER INSIDE DIAMETER	ROUND DUCT TRANS BRANCH TAKE-OFF
T⊢ · ·····TE		L	LENGTH POUNDS	MAIN DUCT
 N ·····N		· · · · · —	LEAVING DRY BULB LEAVING WET BULB LEAVING WATER TEMPERATURE	AIR DISTR
x X		MA MAX	MAKE UP AIR MAXIMUM	DOUBLE LINE
/ ······GA	ATE VALVE/SHUT-OFF	MBH ······ MD ····· MIN. ·····	THOUSANDS OF BTUS PER HOUR MOTORIZED DAMPER MINIMUM	
	HECK VALVE	MVD NC N.C	MANUAL VOLUME DAMPER NOISE CRITERIA	15° M
₩ ·····BA	ALANCING VALVE	N.I.M NO	NORMALLY CLOSED NOT IN MECHANICAL NUMBER	15° м.
DFL		N.O O.A P	NORMALLY OPEN OUTSIDE AIR PERSON	
_		PSI P/T	POUNDS PER SQUARE INCH PRESSURE / TEMPERATURE	<pre></pre>
		R.A. ····· RECT. ····· REQ'D ·····	RETURN AIR RECTANGULAR REQUIRED	
)PL , ·ST	IRAINER W/DRAIN VALVE	S.A	SUPPLY AIR STATIC PRESSURE	
• •••••••PF	RESSURE GUAGE	SQ TEMP TYP	SQUARE TEMPERATURE TYPICAL	
	ETE'S PLUG DUBLE CHECK ASSEMBLY	VAV W WB	VARIABLE AIR VOLUME WIDTH WET BULB	
		WPD	WATER PRESSURE DROP DIAMETER	45
۱U ······	NION		— (E) EXISTING	R=1.0D
			——————————————————————————————————————	
_	-WAY CONTROL VALVE		NEW WORK	
······················	RIPLE DUTY VALVE .		— (G) NATURAL GAS — (CD) CONDENSATE DRAIN	R=1.0W
	AP OTORIZED DAMPER	RF		
/	OTORIZED DAMPER	——— HWS——	LINES (HWS) HEATING WATER SUPPLY	
a	ALL/SHUT-OFF VALVE(SEE SPECS)			$+3 - \pm 12 \text{ MAX}$
) •••••Flf				
) ······Fil			(CHWR) CHILLED WATER RETURN	
) ·····Fli	RE / SMOKE DAMPER MOKE DAMPER			
) ······FII ) ······SN ) ······FA	RE / SMOKE DAMPER MOKE DAMPER AN MOTOR	——————————————————————————————————————	CHWR) CHILLED WATER RETURN	
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MECHAN	re / smoke damper moke damper an motor <u>VICAL GENERAL</u> ngs are diagrammatic. provide all and operable system. verify all	NOTES	CHWR) CHILLED WATER RETURN	
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<ul> <li>M. FIRE</li> <li>M. FIRE</li> <li>M. FRECHAN</li> <li>M. THE DRAWIN</li> <li>M. THE DRAWIN</li> <li>C. VERIFY ALL</li> <li>THE ENGINN</li> <li>C. VERIFY IND</li> <li>SHALL NOT</li> <li>REFER TO</li> <li>INSTRUCTION</li> <li>F. ALL INSTAL</li> <li>OREGON ST</li> <li>REGULATION</li> <li>C. OBTAIN ALL</li> <li>JURISDICTION</li> <li>G. OBTAIN ALL</li> <li>COORDINATE</li> <li>MATCH &amp; FE</li> <li>MATCH EXIST</li> <li>K. COORDINATE</li> <li>M. ALL DUCTW</li> <li>SMACNA, AS</li> <li>N. MANUFACTU</li> <li>DESIGN.</li> <li>O. CUT WALLS</li> <li>OVERSIZED</li> <li>P. PROVIDE ON</li> <li>REQUEST.</li> <li>M. ALL DUCTW</li> <li>SPECIFICATI</li> <li>EQUIPMENT</li> <li>S. ELECTRIC M</li> </ul>	RE / SMOKE DAMPER MOKE DAMPER AN MOTOR	CHR CHR CHR CHR CHR CHR CHR CHR CHR CHR	<ul> <li>(CHWR) CHILLED WATER RETURN</li> <li>EQUIPMENT MAINTENANCE CLEARANCE AND ACCESS</li> <li>AND UNDAMAGED) AND LABOR FOR A REMENTS DIMENSIONS AND EQUIPMENT</li> <li>AND UNDAMAGED) AND LABOR FOR A REMENTS DIMENSIONS AND EQUIPMENT</li> <li>AND KREPORT DISCREPANCIES BACK TO</li> <li>CTING NEW EQUIPMENT. EQUIPMENT R DIAMETER THAN NEW DUCT/PIPE.</li> <li>ING SPACE EXISTS AND THE BUILDING</li> <li>JIPMENT, AND ADDITIONAL CONSTRUCTION</li> <li>ND STATE CODES INCLUDING, 2019</li> <li>UDIX N FOR OREGON FIRE CODE (), 2019 OREGON MECHANICAL SPECIALTY IDE (OEESC)-BASED ON ASHRAE ()). WHERE TWO CODES DIFFER THE MORE</li> <li>Y THE GOVERNING AUTHORITIES HAVING</li> <li>AL CONTRACTOR, CONTROL CONTRACTOR, RE EXISTING SENSORS ARE REMOVED OR</li> <li>IWORK/PIPES HAVE BEEN REMOVED TO</li> <li>ORK IN ACCORDANCE WITH</li> <li>JIPMENT AND SYSTEMS AT OWNER'S</li> <li>SE INDICATED, CONFORMING TO LATEST</li> <li>NT SCHEDULES ARE THE BASIS OF</li> <li>ON. FILL HOLES WHICH ARE CUT H.</li> <li>REQUIRED F AND T RATING OF THE CH A RATED BUILDING CONSTRUCTION.</li> <li>CATIONS FOR CRITERIA.</li> <li>NTS OF APPLICABLE ELECTRICAL IALS AND EQUIPMENT SUPPLIERS OF</li> <li>ROTECTION OR BE PROTECTED</li> </ul>	
<ul> <li>MECHAN</li> <li>VERIFY ALL THE ENGINI</li> <li>VERIFY ALL THE ENGINI</li> <li>VERIFY IND SHALL NOT REPORT DIS</li> <li>DO NOT FA ATTACHMEN</li> <li>E. REFER TO INSTRUCTION</li> <li>F. ALL INSTAL OREGON ST REGULATION CODE (OMS 90.1–2019 STRICT OF</li> <li>G. OBTAIN ALL JURISDICTION</li> <li>G. OBTAIN ALL JURISDICTION</li> <li>G. OBTAIN ALL JURISDICTION</li> <li>G. OBTAIN ALL JURISDICTION</li> <li>MATCH &amp; F MATCH EXIS</li> <li>K. COORDINATI MODIFIED.</li> <li>J. PATCH &amp; F MATCH EXIS</li> <li>K. COORDINATI MODIFIED.</li> <li>J. PATCH &amp; F MATCH EXIS</li> <li>K. COORDINATI MODIFIED.</li> <li>J. PATCH &amp; F MATCH EXIS</li> <li>K. COORDINATI CONSTRUCT</li> <li>D. PROVIDE ON REQUEST.</li> <li>M. ALL DUCTW SMACNA, AS</li> <li>N. MANUFACTU DESIGN.</li> <li>O. CUT WALLS OVERSIZED</li> <li>P. PROVIDE UI CONSTRUCT</li> <li>Q. INSTALL LAI</li> <li>R. CONTROLS SPECIFICATI EQUIPMENT</li> <li>S. ELECTRIC M EXTERNALLY AS REQUIR</li> </ul>	RE / SMOKE DAMPER MOKE DAMPER AN MOTOR	CHR CHR CHR CHR CHR CHR CHR CHR	<ul> <li>(CHWR) CHILLED WATER RETURN</li> <li>EQUIPMENT MAINTENANCE CLEARANCE AND ACCESS</li> <li>AND UNDAMAGED) AND LABOR FOR A REMENTS DIMENSIONS AND EQUIPMENT</li> <li>AND UNDAMAGED) AND LABOR FOR A REMENTS DIMENSIONS AND EQUIPMENT</li> <li>VORK. REPORT DISCREPANCIES BACK TO</li> <li>CTING NEW EQUIPMENT. EQUIPMENT R DIAMETER THAN NEW DUCT/PIPE.</li> <li>ING SPACE EXISTS AND THE BUILDING</li> <li>UIPMENT, AND ADDITIONAL CONSTRUCTION</li> <li>ND STATE CODES INCLUDING, 2019</li> <li>VIDIX N FOR OREGON FIRE CODE (), 2019 OREGON MECHANICAL SPECIALTY DE (OEESC)-BASED ON ASHRAE (). WHERE TWO CODES DIFFER THE MORE</li> <li>Y THE GOVERNING AUTHORITIES HAVING</li> <li>IN CONTRACTOR, CONTROL CONTRACTOR, RE EXISTING SENSORS ARE REMOVED OR</li> <li>WORK/PIPES HAVE BEEN REMOVED TO</li> <li>YORK IN ACCORDANCE WITH</li> <li>UIPMENT AND SYSTEMS AT OWNER'S</li> <li>INDICATED, CONFORMING TO LATEST</li> <li>SE INDICATED, CONFORMING TO LATEST</li> <li>IT SCHEDULES ARE THE BASIS OF</li> <li>ON. FILL HOLES WHICH ARE CUT</li> <li>H.</li> <li>EQUIRED F AND T RATING OF THE GH A RATED BUILDING CONSTRUCTION.</li> <li>CATIONS FOR CRITERIA.</li> <li>NTS OF APPLICABLE ELECTRICAL IALS AND EQUIPMENT SUPPLIERS OF</li> </ul>	



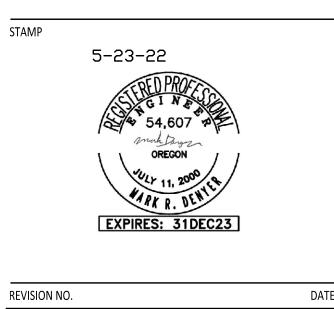
-	SINGLE LINE	
- ≯ 5° MAX		CONCENTRIC TRANSITION
3 ₩/2X 3 5' MAX	╧━━━━━━━━━━━━━━━━━━━━━━━	SQUARE TO ROUND TRANSITION
	$\longrightarrow$	FLEXIBLE DUCT 4 FT. MAX
W1 W2		MITER TEE
—15° MAX. 1 1	, ,	MITERED OFFSET
—30° MAX. 1 -	Ţ	SMOOTH RADIUS OFFSET NO VANES $R/W = 1.0$
-45° MAX.		SMOOTH RADIUS OFFSET NO VANES, $R/W = 1.0$
TURNING VANE		SQUARE ELBOW
Ì	ر ب	RADIUS ELBOW
 2D TO מאמי		TAKE OFF
Ţ → →SPIN−IN	<del>ب `</del>	SPIN-IN TAKE OFF
	<u>Т</u> , Т	ROUND OR RECTANGULAR DUCT WITH CONNICAL FITTING
_]	<u> </u>	DUCT CAP
- -	<b>~</b>	SHEET METAL DUCTWORK. SIZE AS SHOWN. FIRST DIMENSION IS SIDE SEEN.
Η H	<del>ن</del>	INTERNALLY LINED DUCTWORK. DUCT SIZES ON PLANS SHOW NET INSIDE DUCT DIMENSIONS.
BOTTOM DUCT	$\xrightarrow{\uparrow}$	DUCT CROSSING
	<u>ک</u>	MITER TEE
ł	بړ	90 DEG TAKE OFF WITH SPLITTER DAMPER
	, <u></u> ВМ_,	BELLMOUTH FITTING
-1 -1	$\sim$	45 DEGREES LATERAL FITTING

## NOTES:

NOTES:	
THIS DETAIL COVERS MULTIPLE DISCIPLINES AND IS INTENDED TO COVER GENERAL INSTALLATION REQUIREMENTS. SEE SPECIFIC DISCIPLINE DRAWING AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SEE PROJECT SPECIFIC FLOOR PLANS, ELEVATIONS AND SECTIONS FOR ADDITIONAL INFORMATION. THE	MECHANICAL SHEET INDEX
CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL SYSTEM UPON COMPLETION OF WORK. FUEL VENT DISCHARGE LOCATION SHALL BE 5' MIN. FROM BUILDING OPENINGS, 15' MIN. FROM OUTSIDE AIR INTAKES, AND 12' MIN ABOVE GRADE. NFPA 30.	M001 TITLE SHEET & MECHANICAL SCHEDULES M201 MECH FLOOR PLAN – LEVEL 1 M202 MECH FLOOR PLAN – TYPICAL FLOOR PLAN
FLEX CONNECTIONS TO THE GENERATOR SHALL BE UTILIZED FOR ALL UTILITY CONNECTIONS, INCLUDING BUT NOT LIMITED TO: ENGINE EXHAUST, VENT PIPING, DUCTWORK, AND CONDUITS.	M203 MECH FLOOR PLAN – ROOF M600 MECHANICAL DETAILS
DIESEL GEN—SETS IN SERVICE SHALL BE EXERCISED AT LEAST ONCE MONTHLY FOR A MINIMUM OF 30 MINUTES OR AS REQUIRED BY THE LOCAL A.H.J. NFPA 110	M601 MECHANICAL DETAILS M601 MECHANICAL DETAILS
NO OTHER EQUIPMENT OTHER THAN GENERATOR RELATED COMPONENTS SHALL BE ALLOWED IN THE GENERATOR ROOM.	MOUT MECHANICAL DETAILS
FUEL TANK SHALL BE SIZED AT A MINIMUM TO OPERATE THE GENERATOR AT FULL LOAD FOR 2 HOURS. NEC.	
HIGH TEMPERATURE SPRINKLER HEADS SHOULD BE INSTALLED IN THE GENERATOR ROOM. NFPA 13	
EMERGENCY POWER OFF (EPO) TO BE LOCATED EXTERIOR TO GEN—SET ROOM, NEAR EXIT DOOR. NFPA 110	
THE INITIAL FIRST FILL FOR THE GENERATOR DIESEL TANK IS REQUIRED TO BE WITNESSED BY THE FIRE MARSHAL'S OFFICE HAZARDOUS MATERIALS INSPECTOR, WHERE THE 90% ALARM AND 95% SHUT—OFF WILL BE VERIFIED.	
PRIOR TO REQUESTING A TANK FINAL, FIRE SPRINKLERS AND FIRE ALARMS SHALL BE FINALED OR THAT THE FIRE SPRINKLER SYSTEM IS WORKING, AND THAT THE ALARMS ARE CURRENTLY CENTRALLY MONITORED.	
ALL FUEL SUPPLY AND VENT PIPING PIPING SHALL BE LABELED.	
CALIBRATION CHART OF PERMANENT AND DURABLE CONSTRUCTION SHALL BE LOCATED AT THE REMOTE FILL.	
BEFORE BEING COVERED, ENCLOSED OR PLACED IN USE, DOCUMENTATION WILL BE PROVIDED IN ACCORDANCE WITH NFPA 30, 21.5.	
EACH TANK SHALL BEAR A PERMANENT NAMEPLATE OR MARKING INDICATING THE STANDARD USED AS THE BASIS OF DESIGN.	







REVISION N	0.	DATE
5	PLANCHECK #6	05.19.22

TRUE PLAN NORTH NORTH
MERX
NW 19th & Pettygrove

**DD Pettygrove, LLC** 1910 NW PETTYGROVE ST, PORTLAND, OR 97209

95% CD / ISSUE FOR CONSTRUCTION SET

MECHANICAL LEGEND

ISSUANCE

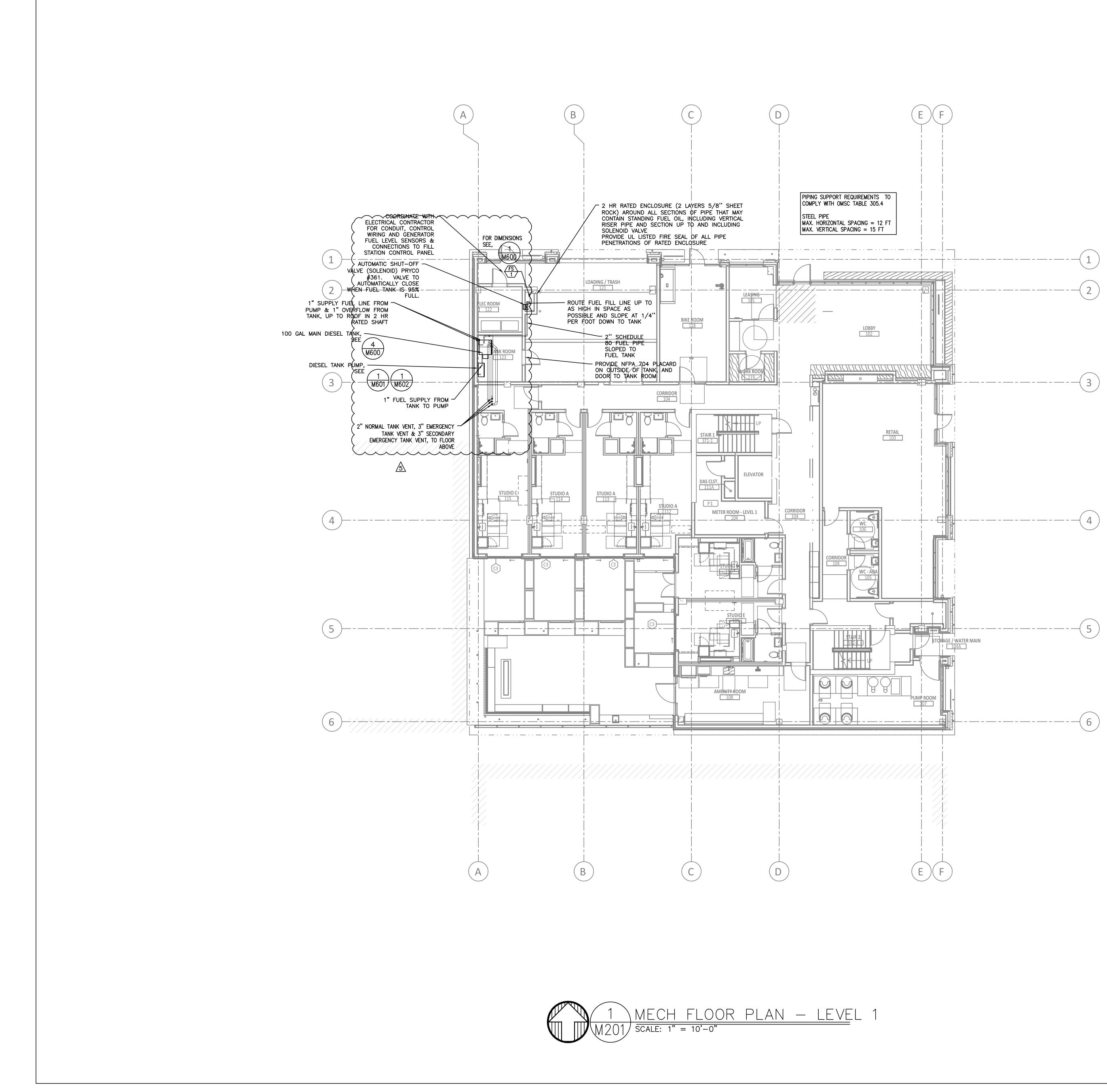
PROJECT NUMBER **170290** DATE **04.01.2022** 

FULL SHEET SIZE

**30 X 42** DRAWING TITLE

SHEET NUMBER

M001





SHEET NUMBER

DD Pettygrove, LLC 1910 NW PETTYGROVE ST, PORTLAND, OR 97209
ISSUANCE 95% CD / ISSUE FOR CONSTRUCTION SET
PROJECT NUMBER <b>170290</b>
DATE <b>04.01.2022</b>
FULL SHEET SIZE
<u>30 X 42</u>
DRAWING TITLE
LEVEL 1 MECHANICAL PLAN

MERX NW 19th & Pettygrove

TRUE NORTH



5-23-22

STAMP

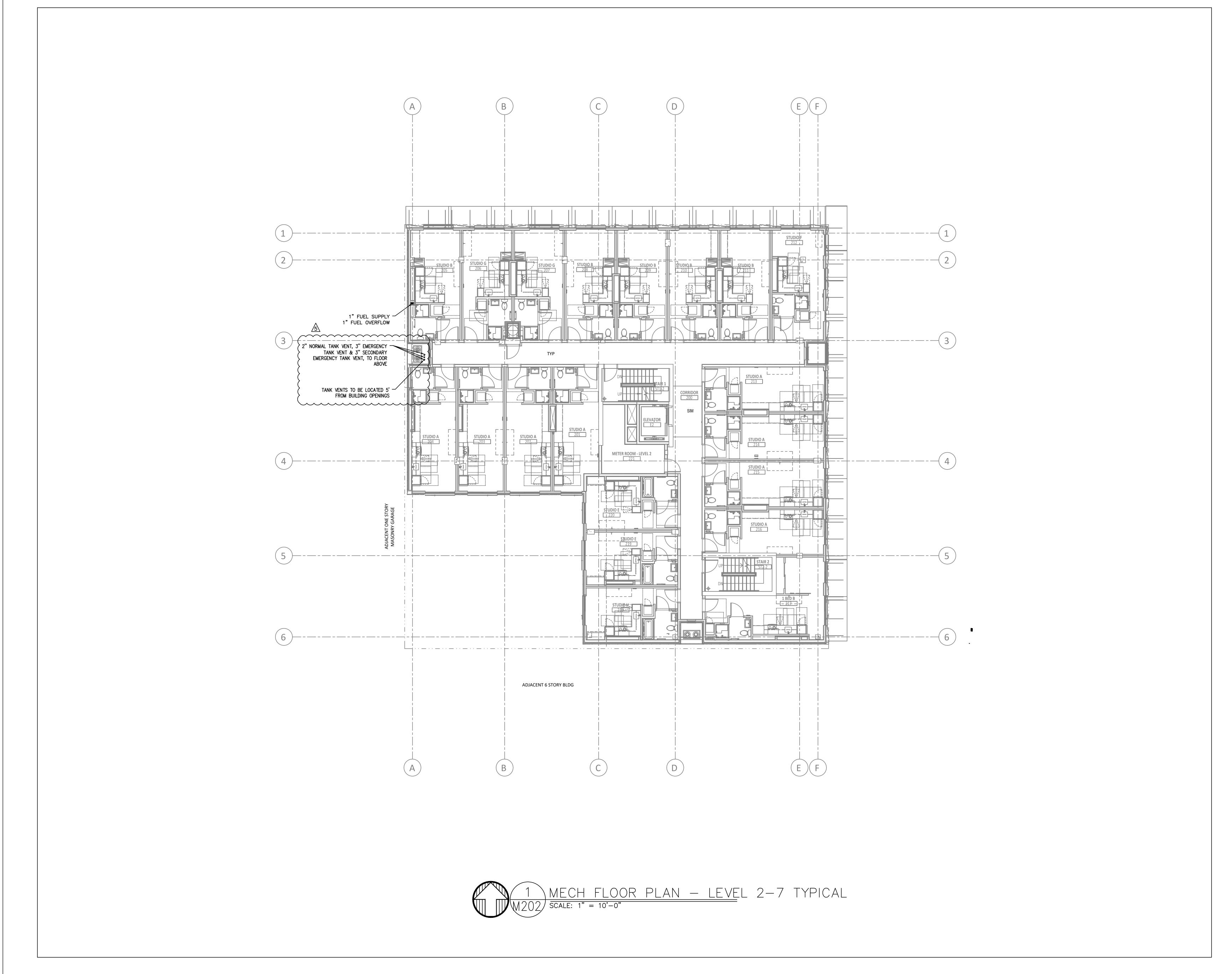
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5	PLANCHECK #6	05.19.22

YB,	
architects	
123 NW 2ND AVE SUITE 204 - PORTLAND, OR 972 T: 971.888.5107 - E-MAIL: INFO@YB-A.COM	20

Consulting Engin

INC. WWW.MFIA-ENG.COM CONTACT: MARK DENYER

ortland. OR 9721 (503) 234–054 FAX: (503) 234-067'



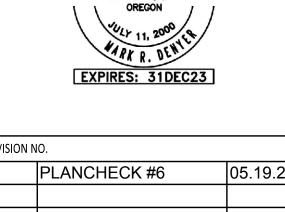


SHEET NUMBER

<b>DD Pettygrove, LLC</b> 1910 NW PETTYGROVE ST, PORTLAND, OR 97209
ISSUANCE 95% CD / ISSUE FOR CONSTRUCTION SET
PROJECT NUMBER 170290
DATE 04.01.2022
FULL SHEET SIZE
30 X 42
DRAWING TITLE
LEVEL 2-7 TYPICAL
MECHANICAL PLAN

MERX NW 19th & Pettygrove

TRUE NORTH



5-23-22

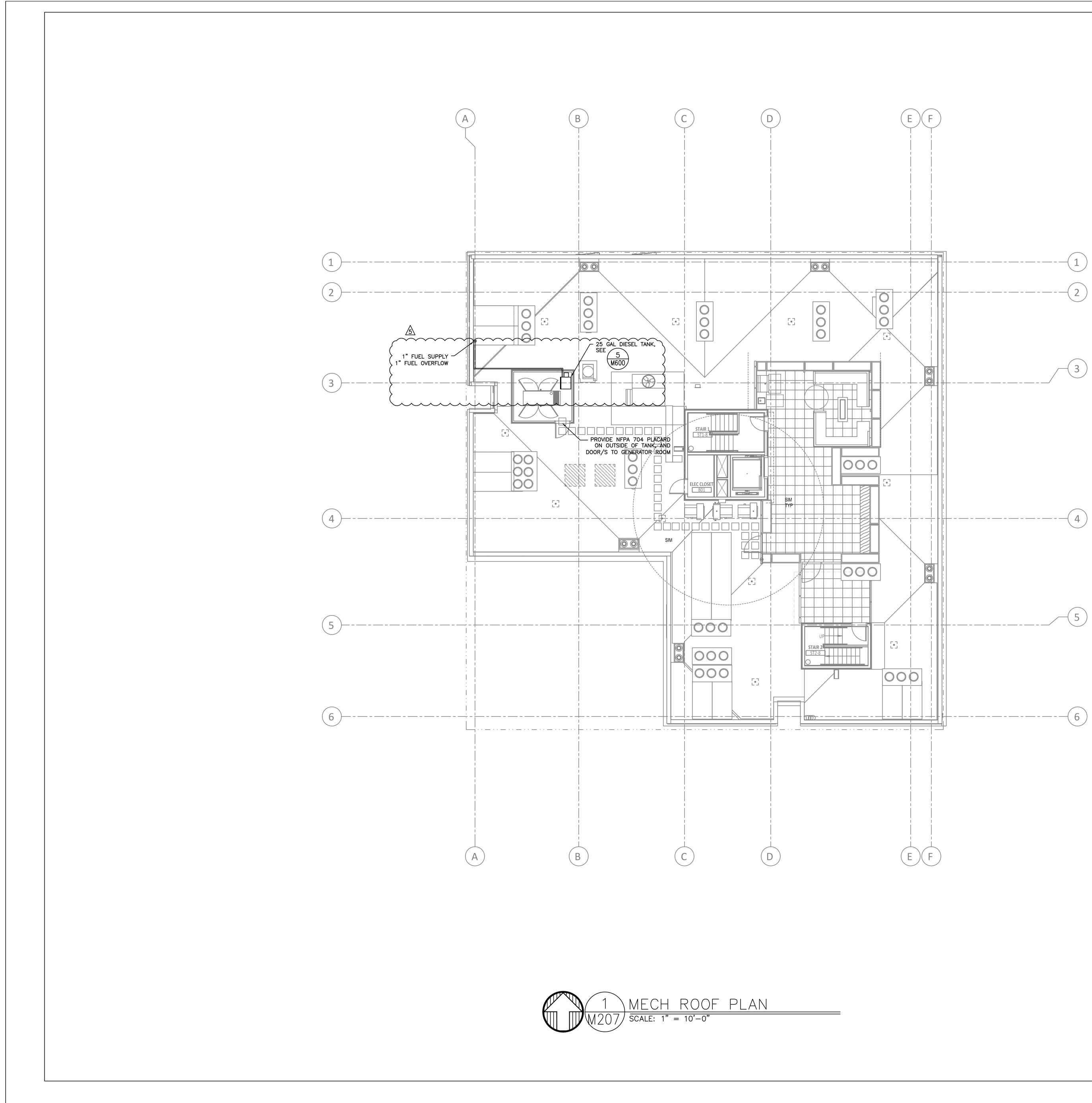
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YBA
architects

123 NW 2ND AVE SUITE 204 - PORTLAND, OR 97209 T: 971.888.5107 - E-MAIL: INFO@YB-A.COM

NC.WWW.MFIA-ENG.COM CONTACT: MARK DENYER





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ISSUANCE 95% CD / ISSUE FOR CONSTRUCTION SET
PROJECT NUMBER 170290
DATE 04.01.2022
FULL SHEET SIZE
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DRAWING TITLE
LEVEL 3 MECHANICAL PLAN

NW 19th & Pettygrove

TRUE NORTH PLAN MERX

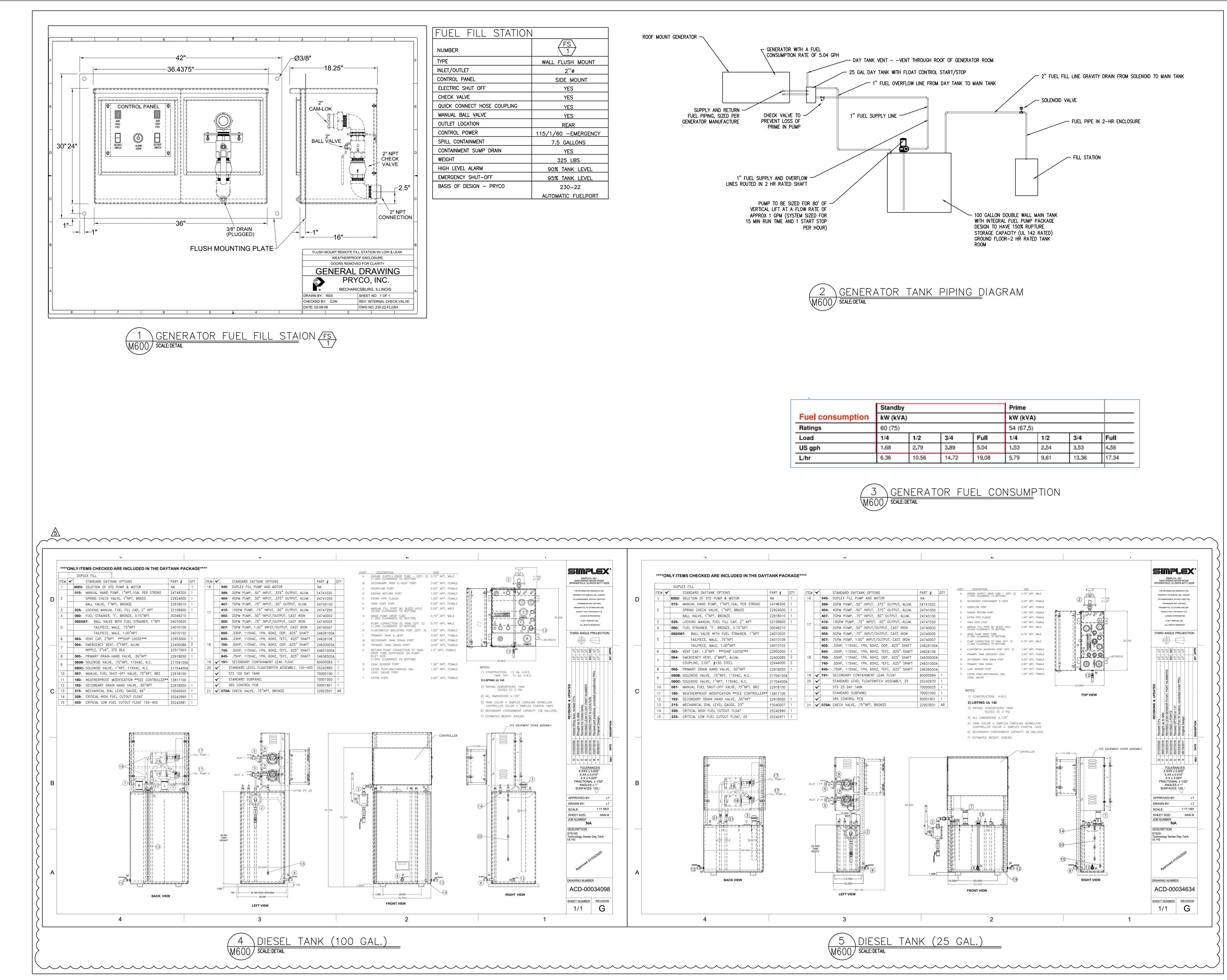
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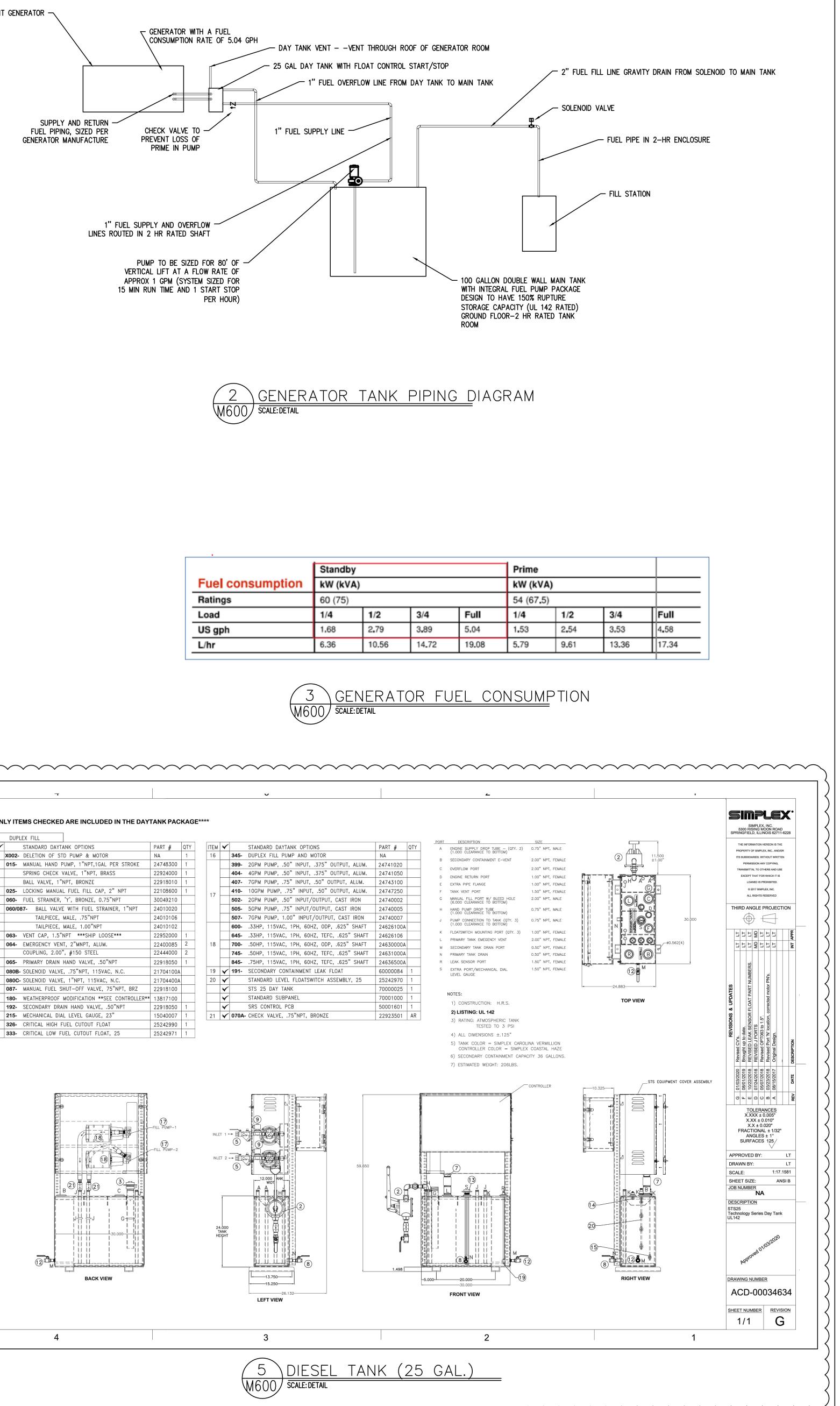
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architects 123 NW 2ND AVE SUITE 204 - PORTLAND, OR 97209 T: 971.888.5107 - E-MAIL: INFO@YB-A.COM

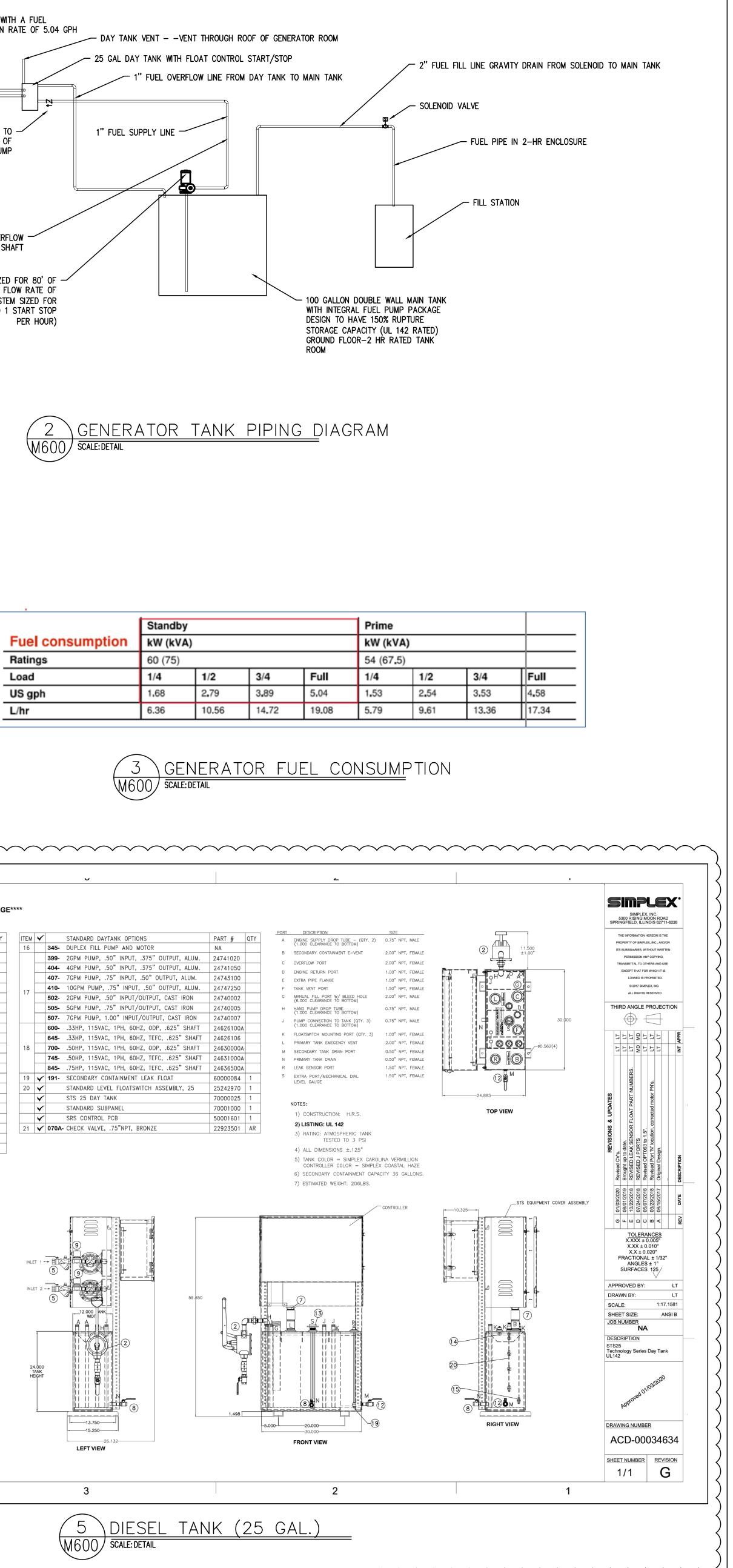
 $\mathbf{NC}$ . www.mfia-eng.com CONTACT: MARK DENYER





1"FUEL	SUPPLY AND	OVERFLOW -
LINES ROUTED	D IN 2 HR RA	TED SHAFT

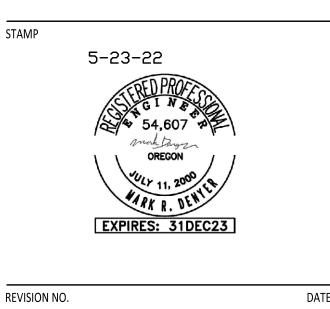
$\left( \right)$	
M	6



FUEL FILL STATION				
NUMBER	FS 1			
TYPE	WALL FLUSH MOUNT			
INLET/OUTLET	2''ø			
CONTROL PANEL	SIDE MOUNT			
ELECTRIC SHUT OFF	YES			
CHECK VALVE	YES			
QUICK CONNECT HOSE COUPLING	YES			
MANUAL BALL VALVE	YES			
OUTLET LOCATION	REAR			
CONTROL POWER	115/1/60 -EMERGENCY			
SPILL CONTAINMENT	7.5 GALLONS			
CONTAINMENT SUMP DRAIN	YES			
WEIGHT	325 LBS			
HIGH LEVEL ALARM	90% TANK LEVEL			
EMERGENCY SHUT-OFF	95% TANK LEVEL			
BASIS OF DESIGN – PRYCO	230-22			
	AUTOMATIC FUELPORT			







REVISION N	DATE				
5	05.19.22				

1	TRUE NORTH	PLAN NORTH	
ME	RX		
NW	19th	& Pettygrove	

DD Pettygrove, LLC

ISSUANCE

PROJECT NUMBER 170290 DATE

04.01.2022

FULL SHEET SIZE

DRAWING TITLE

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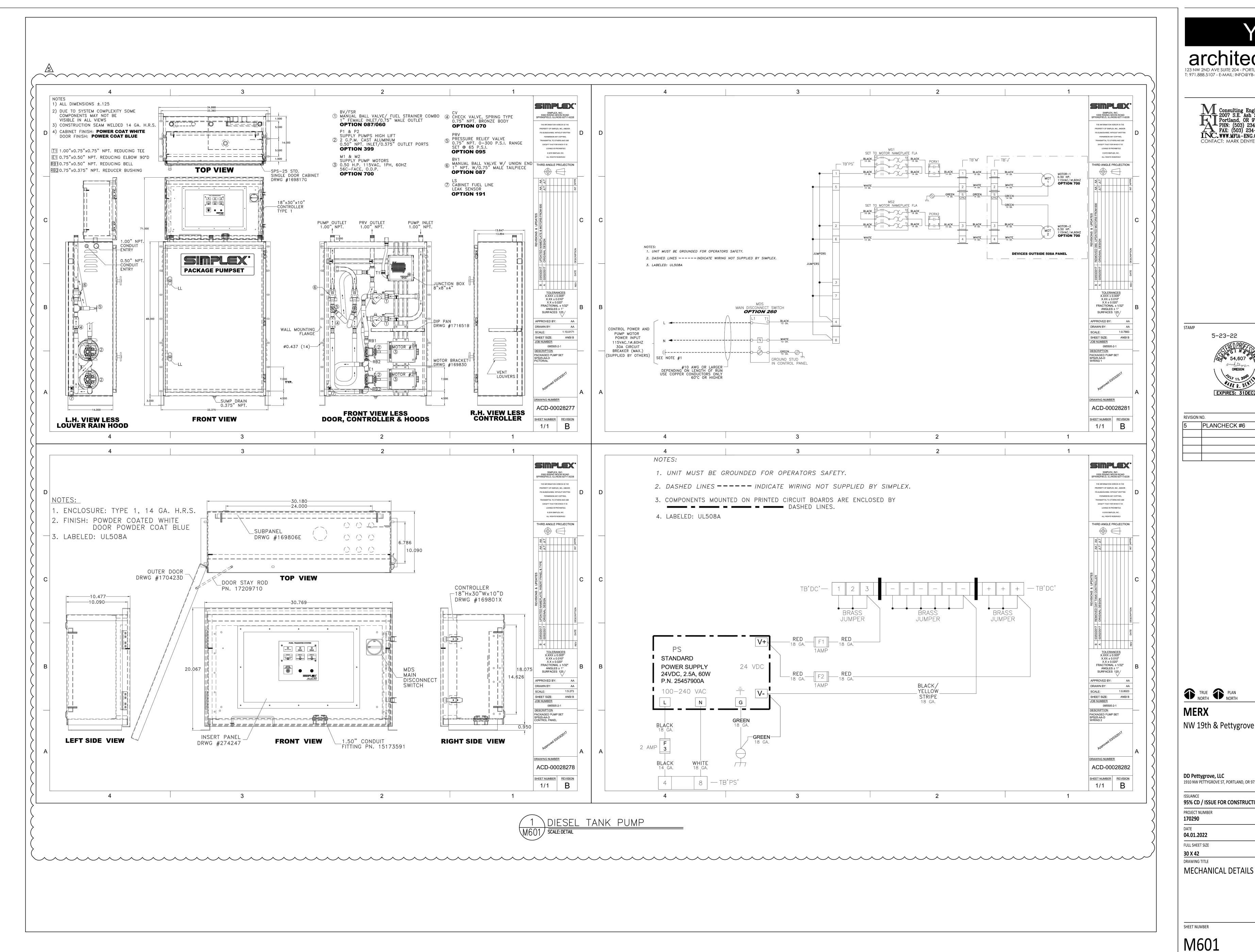
M600

30 X 42

1910 NW PETTYGROVE ST, PORTLAND, OR 97209

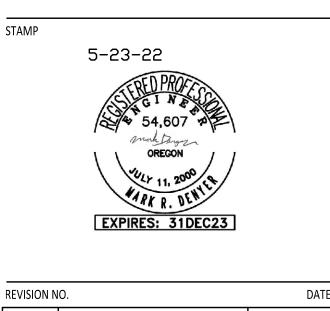
MECHANICAL DETAILS

95% CD / ISSUE FOR CONSTRUCTION SET





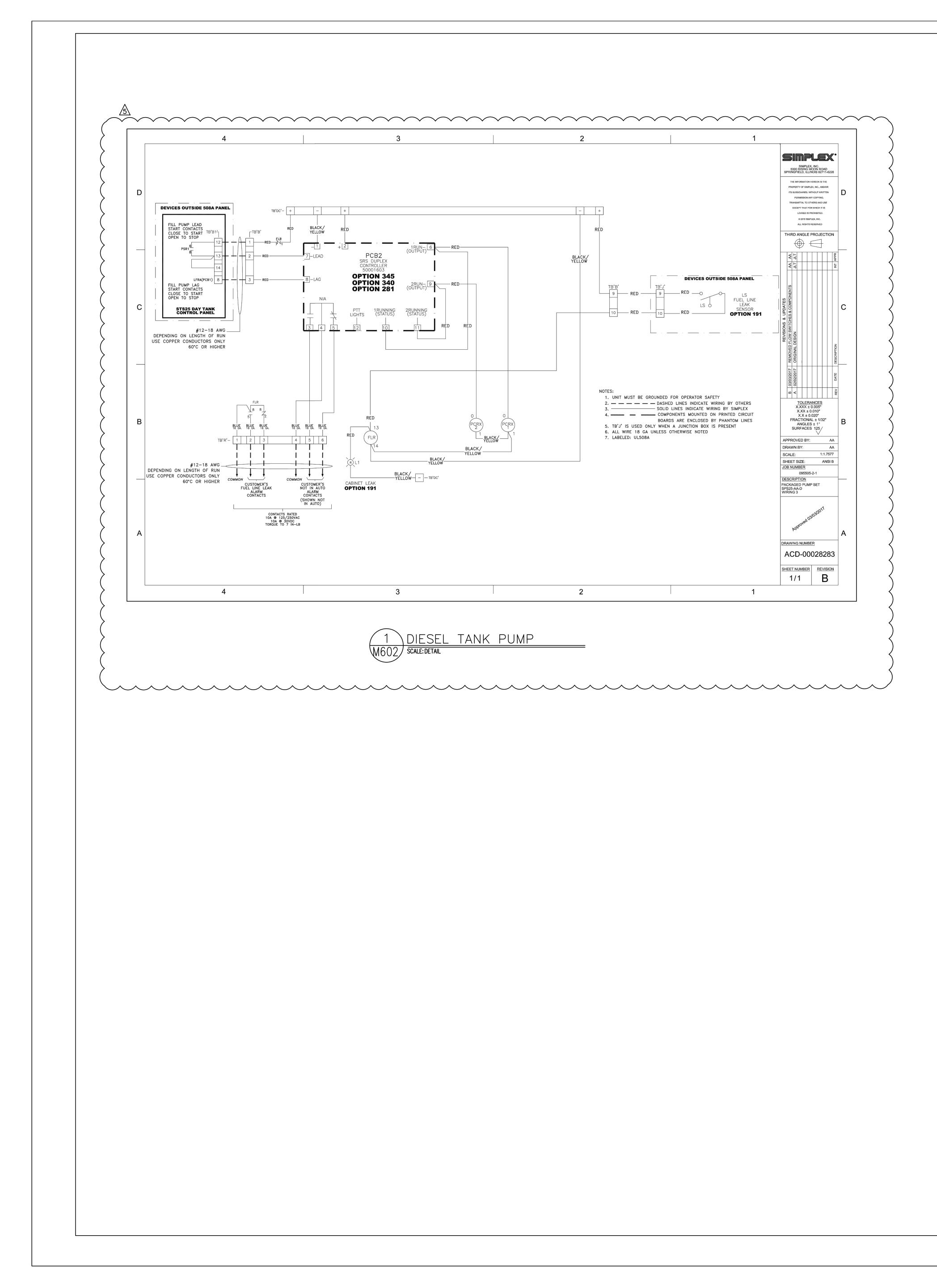


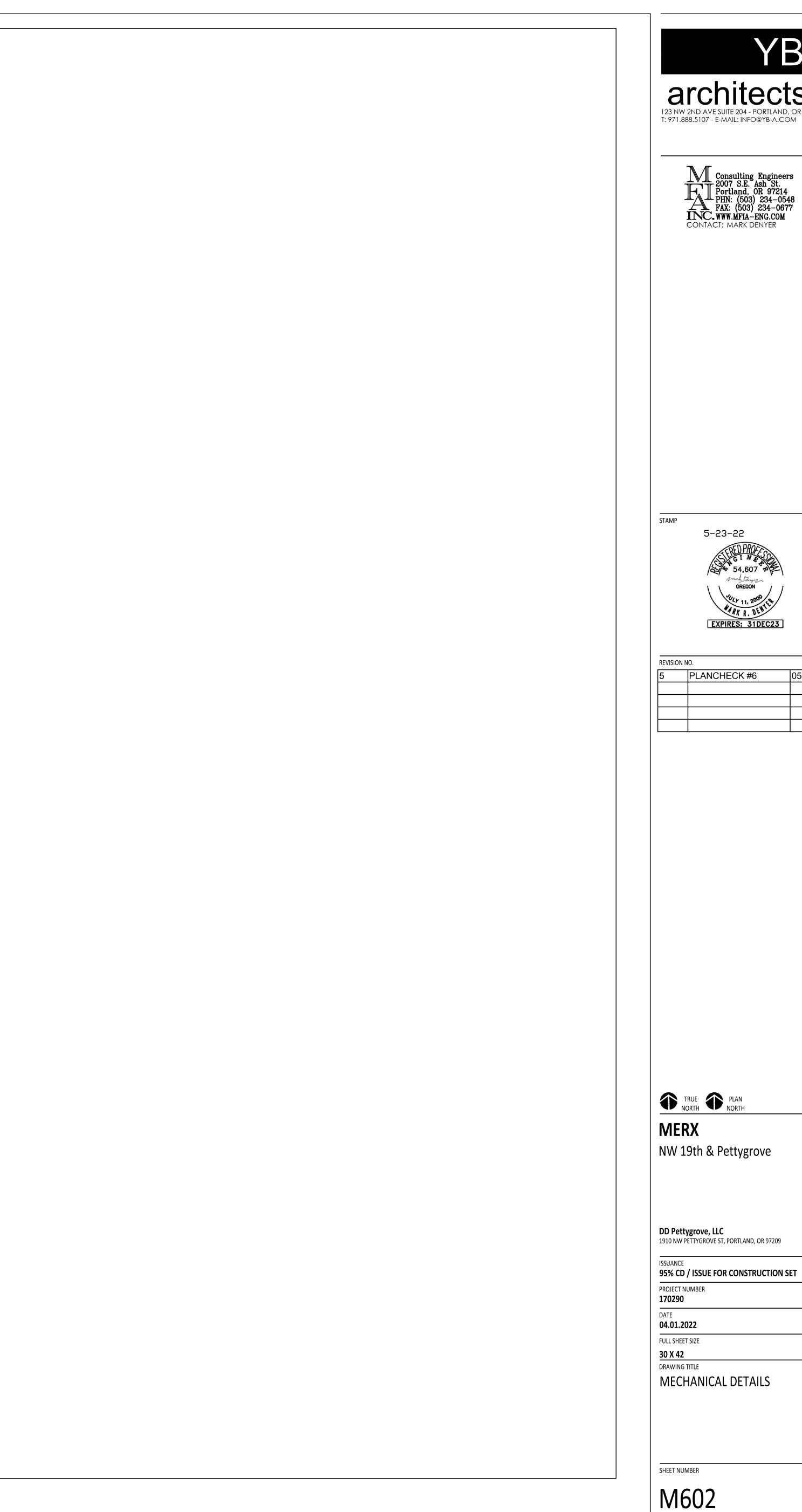


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ISSUANCE 95% CD / ISSUE FOR CONSTRUCTION SET
DD Pettygrove, LLC 1910 NW PETTYGROVE ST, PORTLAND, OR 97209
NW 19th & Pettygrove

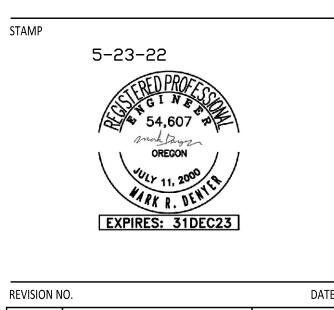
SHEET NUMBER











REVISION N	DATE			
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	NORTH		NORTH			
ME	RX					
NW	19th	& P	ettyg	rove		

TRUE PLAN NORTH NORTH