

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING WORK AROUND RAINY WEATHER CONDITIONS AND MAKING THE OCCUPIED BUILDING WATER TIGHT EVERY DAY.
2. THE CONTRACTOR SHALL FULLY ACCESS ALL EXISTING CONDITIONS AND SUBMIT A PHASING PLAN WITH DRAWINGS INDICATING HOW THE WORK SHALL BE PERFORMED.
3. UNLESS NOTED ON THE DRAWING THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS INDICATED TO BE DEMOLISHED. ALL ITEMS INDICATED TO BE SALVAGED INVENTORIED AND TURNED OVER TO V.A.
4. ALL WORK PERFORMED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.
5. INSTALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THE SPECIFICATIONS HEREIN, WHERE MORE STRINGENT, SHALL BE COMPLIED WITH.
6. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE VA BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
7. THE V.A. SHALL BE THE PRIMARY SOURCE FOR INFORMATION REGARDING ALL DISCIPLINES (ARCH, STRUCT, MECH, ELECT, ETC.). THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF RELATED DESIGN DISCIPLINES AS THEY AFFECT COORDINATION.
8. ALL PIPE AND DUCTWORK PENETRATING THROUGH FIRE RATED FLOOR SLABS AND PARTITIONS SHALL BE SLEEVED EXCEPT WHERE SHAFTS OR OPENINGS ARE PROVIDED. VOIDS IN SLEEVES SHALL BE PACKED TIGHT WITH A FIRE RESISTIVE MATERIAL THAT MEETS OR EXCEEDS THE ASSEMBLY BEING PENETRATED.
9. PROVIDE NECESSARY SUPPORTS AND BLOCKING IN WALLS TO SUPPORT WORK ATTACHED TO THEM.
10. DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL ITEMS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE DETAILED FABRICATION AND ERECTION DRAWING, SETTING DRAWINGS, DIAGRAMMATIC DRAWINGS AND MATERIAL SCHEDULES. LOCATION OF ORIENTATION OF ALL ITEMS SHALL BE CLEARLY INDICATED. FABRICATION SHALL BEGIN ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS.
12. THIS PROJECT IS A NON-SMOKING PROJECT. SMOKING IS NOT ALLOWED IN THE BUILDING.
13. THE CONTRACTOR WILL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, REFLECTORS, LIGHTS, ETC. DURING CONSTRUCTION, PROPERLY IDENTIFY AREAS CLOSED TO THE PUBLIC.
14. THE CONTRACTOR WILL REMOVE ALL RUBBLE AND DEBRIS FROM THE JOB SITE DAILY AND LEAVE THE BUILDING AND GROUNDS BROOM CLEAN UPON COMPLETION OF THE WORK.
15. THE CONTRACTOR SHALL NOT INTERRUPT PLUMBING, HVAC, ELECTRICAL, ETC. OPERATIONS WITHOUT COORDINATION AND APPROVAL OF THE RESIDENT ENGINEER IN WRITING.
16. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RESIDENT ENGINEER INCLUDING BUT NOT LIMITED TO STAGING, ENTRY, USE OF FACILITIES, UTILITIES, SCHEDULING, SMOKING, EATING, ETC.
17. VERIFY ALL EXISTING CONDITIONS. ANY NECESSARY ROUTING CHANGES AND CONTRACTOR ACCESS TO PIPING MUST BE CONTAINED WITHIN THE INITIAL BID.
18. CALL RESIDENT ENGINEER AT 318-473-0010 PRIOR TO DIGGING OR WORKING ON THIS PROJECT.

DEPARTMENT OF VETERANS AFFAIRS

VA HEALTH CARE SYSTEM

REPLACEMENT FOR CHILLER NO. 2

ALEXANDRIA, LOUISIANA

KEYNOTES:

NO	SPEC	NOTE
01.42		SAWCUT AND REMOVE MASONRY AS NECESSARY TO INSTALL NEW STEEL POSTS, LINTEL AND REMOVABLE LOUVER. FILL ALL VOIDS IN MASONRY WITH GROUT.

LIST OF DRAWINGS

GENERAL:

ARCHITECTURAL:

A001	TITLE SHEET / LIST OF DRAWINGS / PROJECT INFORMATION / KEY PLAN / VICINITY PLAN / ABBREVIATIONS / DEMOLITION PLAN / DOOR DETAILS
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MECHANICAL:

M-1	MECHANICAL LEGEND
M-2	CHILLER DEMOLITION PLAN
M-3	NEW CHILLER PLAN
M-4	MECHANICAL SCHEDULES AND DETAILS

ELECTRICAL:

E-2	CHILLER DEMOLITION PLAN
E-3	NEW CHILLER PLAN
E-4	ELECTRICAL SCHEDULE AND DETAILS

PROJECT INFORMATION

PROJECT ADDRESS

Contracting Officer
VA Medical Center
P.O. Box 69004
2495 Shreveport Hwy,
Alexandria, Louisiana 71306-9004

PROJECT DIRECTORY

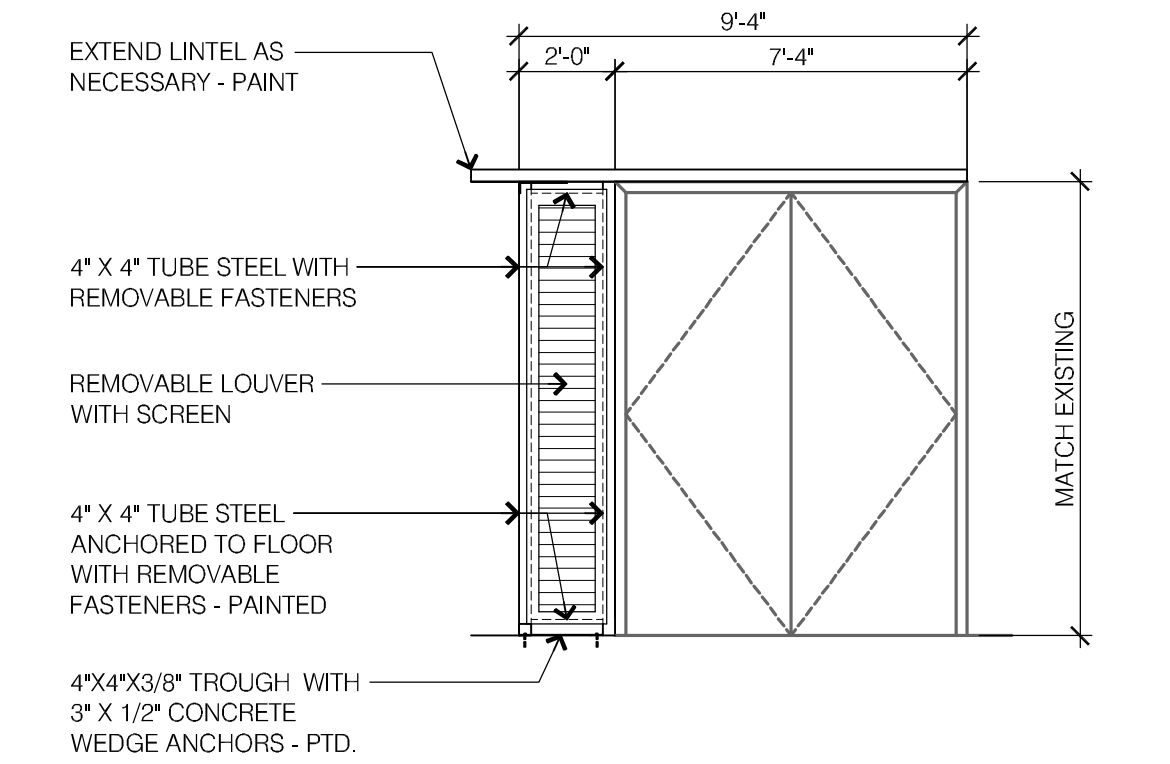
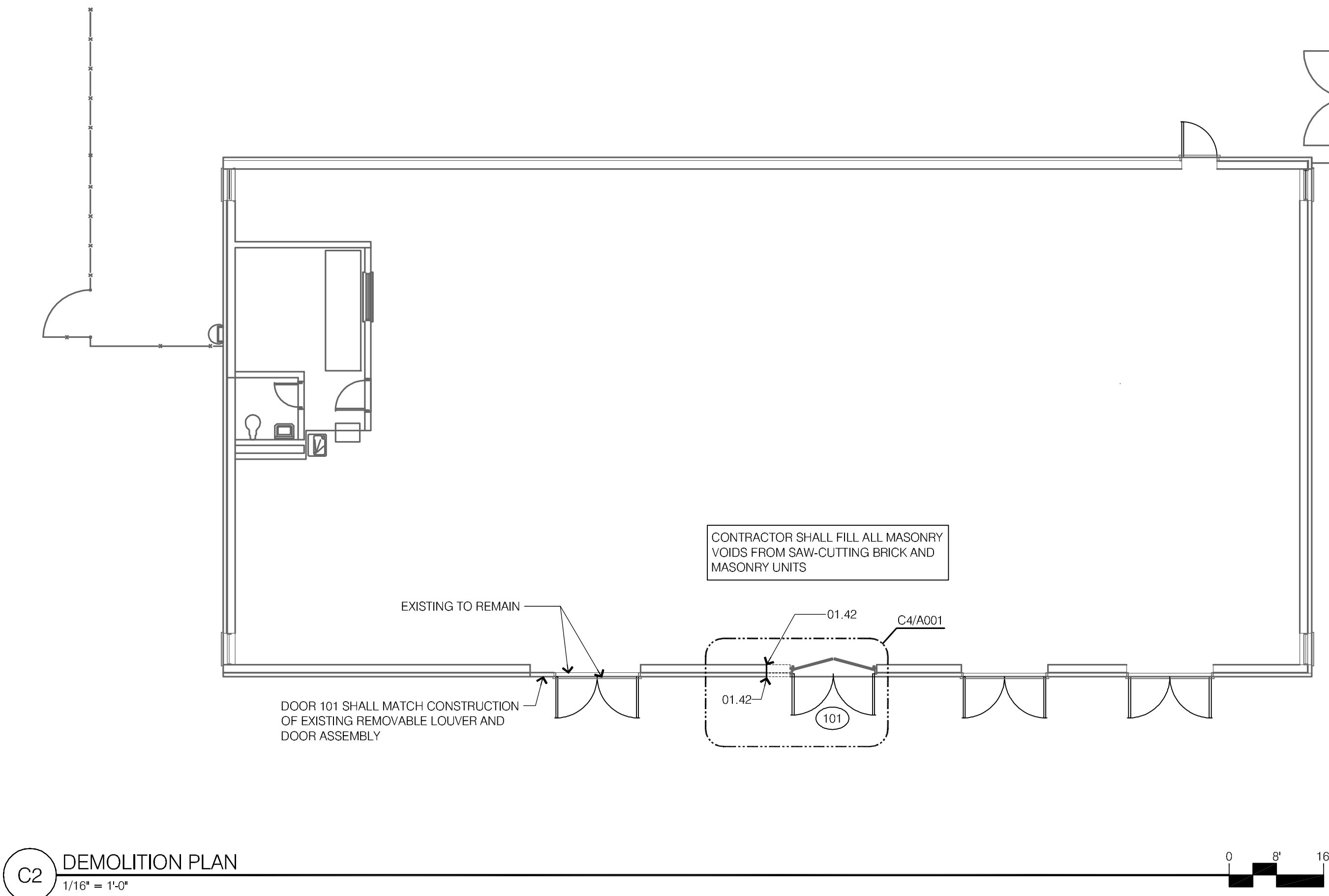
Replacement for Chiller No. 2 and Cooling Tower No. 3
Building No.: 147
Contract No.: VA-296-C-1135
Task Order No.: VA296-13-3-2341
VA Contracting Officer - Gina Roach
gina.roach@va.gov

ARCHITECTS

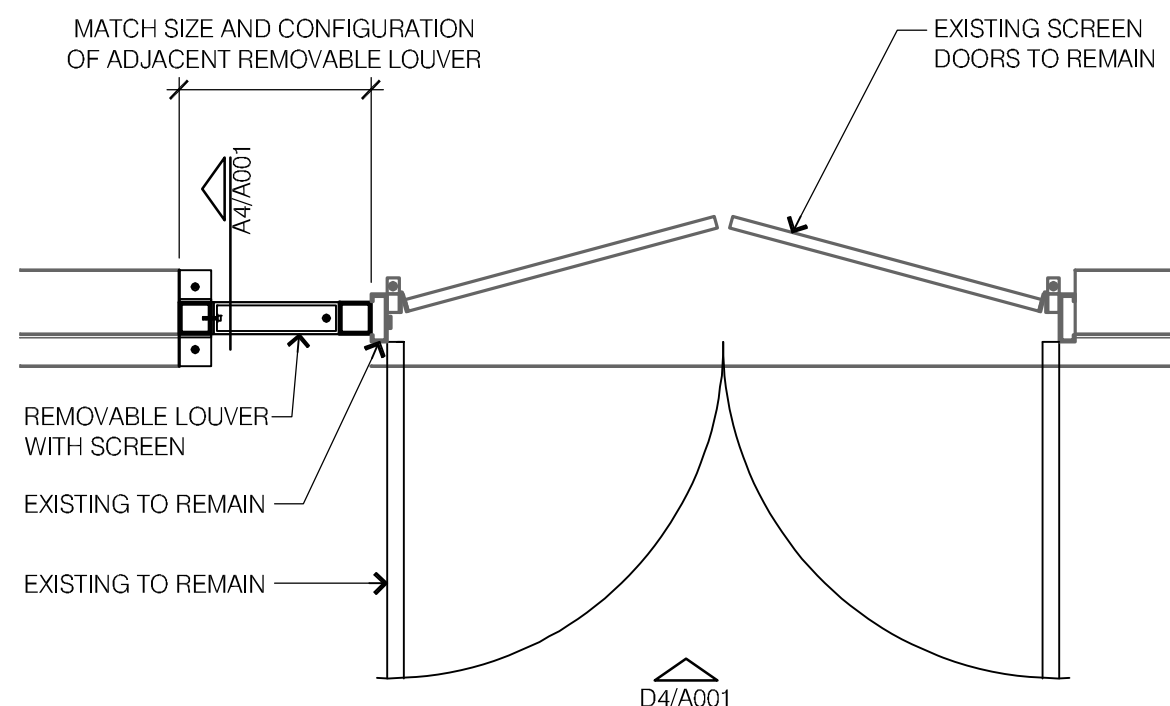
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MECHANICAL/ELECTRICAL ENGINEERS

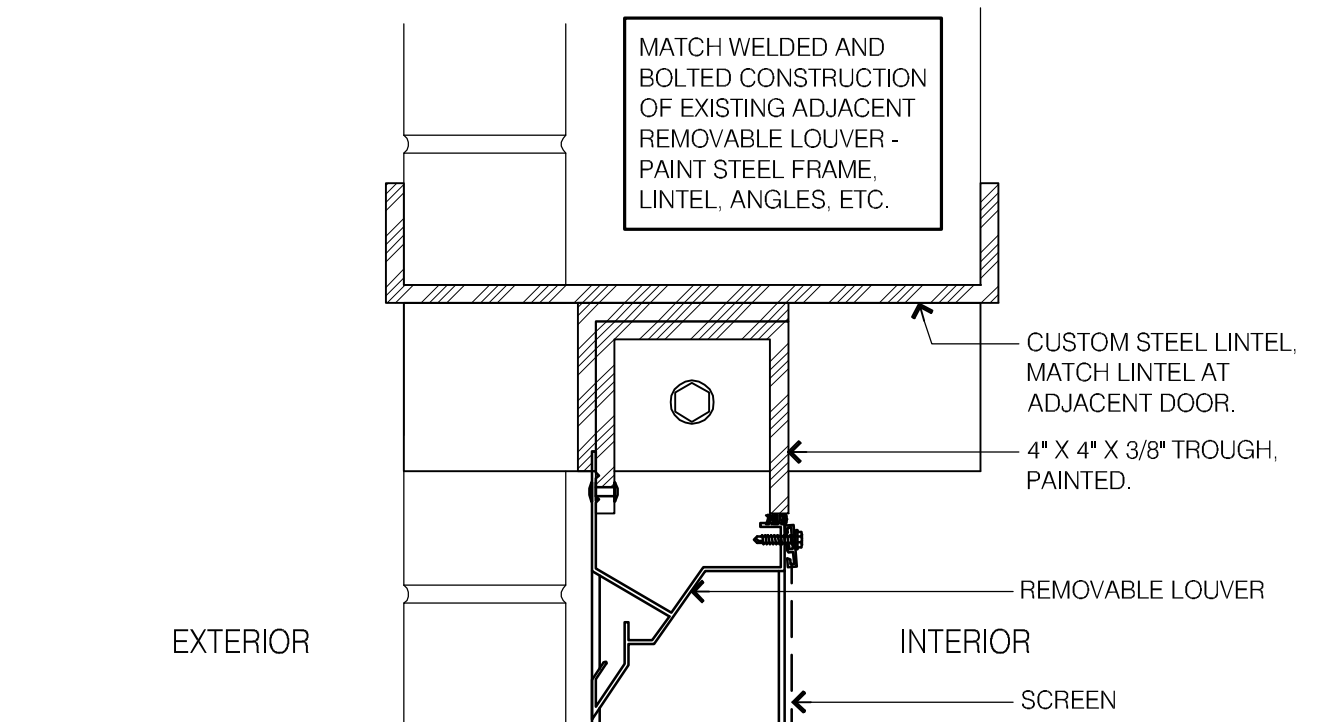
Associated Design Group
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TOM LEJEUNE, P.E. - MECHANICAL
tlejeune@adginc.org
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dstelly@adginc.org



D4 LOUVER ELEVATION
1/4\"/>



C4 ENLARGED PLAN
1/2\"/>



A4 SILL/ HEAD DETAIL
3\"/>

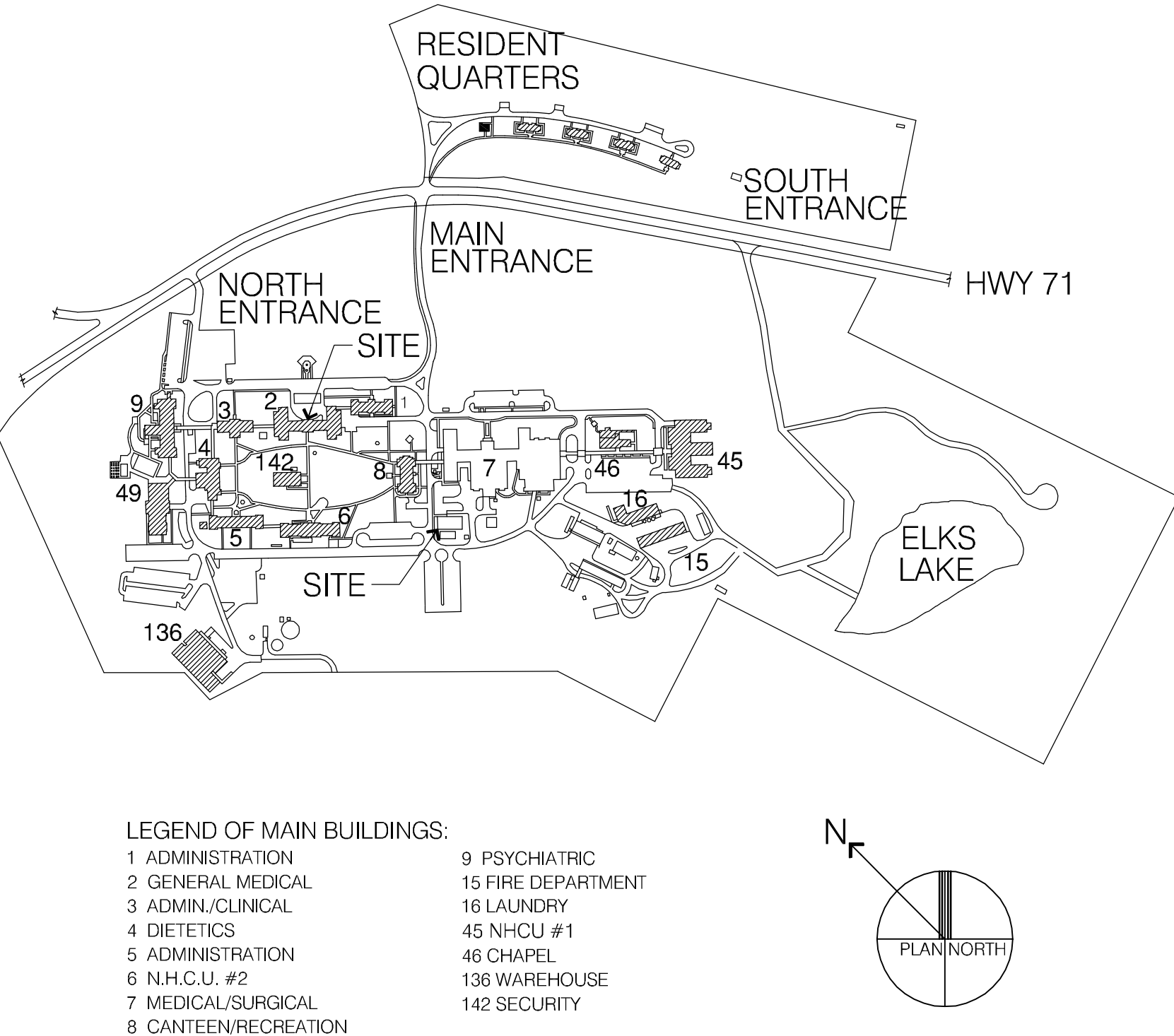
DRAFTING SYMBOLS

NAME	SYMBOL
NEW PARTITION	[Line symbol]
ROOM NAME	[Box symbol]
ROOM NUMBER	[Box symbol]
CEILING HEIGHT	[Box symbol]
KEYNOTE	[Circle symbol]
INTERIOR / EXTERIOR ELEVATION MARK SHOWING	[Triangle symbol]
DETAIL # / SHEET #	[Box symbol]
ENLARGED DETAIL MARK SHOWING	[Box symbol]
SECTION CUT MARK SHOWING	[Box symbol]
DETAIL # / SHEET #	[Box symbol]
COLUMN REFERENCE GRID	[Circle symbol]
SPECIFICATION REFERENCE (FOUND IN PROJECT MANUAL)	[Circle symbol]
SPECIFICATION REFERENCES ARE INDICATED FOR THE CONTRACTOR'S CONVENIENCE. LACK OF REFERENCE OR MISREFERENCE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PROVIDE THAT MATERIAL.	
NIC	NOT IN CONTRACT
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
FE	FIRE EXTINGUISHER
PTD	PAINTED
EJ	EXPANSION JOINT
CJ	CONTROL JOINT
RD	ROOF DRAIN

ABBREVIATIONS

APP.	APPROXIMATE
BLDG.	BUILDING
CONC.	CONCRETE
CONT.	CONTINUOUS
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
C.R.	CURTAIN AND CURTAIN ROD
DIA.	DIAMETER
EP	ELECTRICAL PANEL
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXP.	EXPOSED
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FW	FIRE WALL
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GB1	36\"/>
GB2	42\"/>
G.F.C.I.	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
G.F.G.I.	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GYP. BD.	GYP.SUM WALL BOARD
AL	HANDICAPPED LAVATORY
AU	HANDICAP URINAL
AWC	HANDICAPPED WATER CLOSET
L	LAVATORY
M.I.	16\"/>
MECH	MECHANICAL
N.I.C.	NOT IN CONTRACT
OPP.	OPPOSITE
OTS	OPEN TO STRUCTURE
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
RD	ROOF DRAIN
RH	ROBE HOOK
RE	REFERENCE
S	SINK
SD	SOAP DISH
S.F.	SQUARE FOOT
SH	SHOWER
EH-D	SPECIFICATIONS
SW	SMOKE WALL
TB	TOWEL BAR
T.F.	TRANSPARENT FINISH
TH-K	THICK
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
U	URINAL
WC	WATER CLOSET

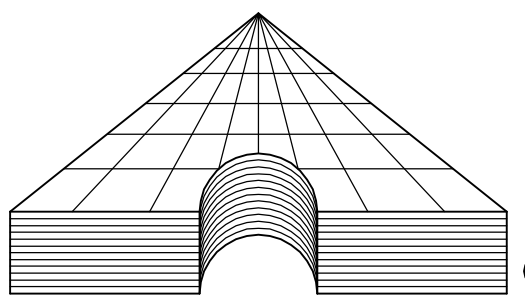
MASTER SITE PLAN



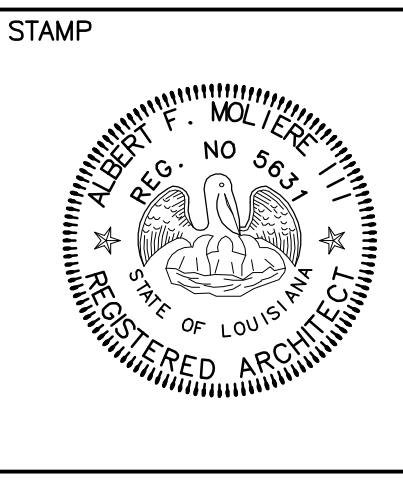
LEGEND OF MAIN BUILDINGS:	
1 ADMINISTRATION	9 PSYCHIATRIC
2 GENERAL MEDICAL	15 FIRE DEPARTMENT
3 ADMIN/CLINICAL	16 LAUNDRY
4 DIETETICS	45 NHCU #1
5 ADMINISTRATION	46 CHAPEL
6 N.H.C.U. #2	136 WAREHOUSE
7 MEDICAL/SURGICAL	142 SECURITY
8 CANTEN/RECREATION	

Revisions		
SYMBOL	NAME	Date

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ABM PROJECT # 201101.C4



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Lafayette, Louisiana (337) 234-5710
PROJECT No. 13224

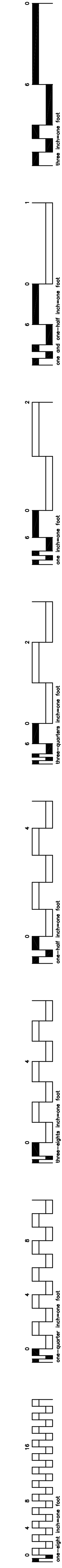


Drawing Title	
TITLE INFORMATION/ DEMOLITION PLAN/ DETAILS	

Project Title			
CHILLER #2 REPLACEMENT			
Building Number	Checked	Drawn	
147	LWB	TWL	
Location			
ALEXANDRIA, LOUISIANA			

Date
2-13-14
Project No.
000-00-000
DRAWING NO.
A001
Dwg.
of
X

Veterans
Administration



ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTIGRADE (CELCIUS)
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CENT	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CHP	CHILLED WATER PUMP
CHW	CHILLER WATER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CWCC	CHILLED WATER COOLING COIL

DB	DECIBELS
D _b	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DPS	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
GAL	GALLONS
GPM	GALLONS PER MINUTE
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY

H&CW	HOT & COLD WATER
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HW	HOT WATER
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ICF	IN-LINE CENTRIFUGAL FAN
IN	INCHES
IN WC	INCH WATER COLUMN
IS	INSECT SCREEN
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LSD	LINEAR SLOT DIFFUSER
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE

MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
P	PUMP
PD	PRESSURE DROP
PF	PRE-FILTER
PG	PRESSURE GAGE
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSV	PRESSURE SAFETY VALVE

RH	RELATIVE HUMIDITY
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SAT	SUPPLY AIR TEMPERATURE
SCFM	STANDARD CUBIC FEET PER MINUTE
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SI	SQUARE INCHES
SP	STATIC PRESSURE
SQ FT	SQUARE FOOT (FEET)

TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
UH	UNIT HEATER
V	VALVE
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VSD	VARIABLE SPEED DRIVE
W	WATTS
W _b	WET-BULB (TEMPERATURE)
WFM	WATER FLOW MEASURING DEVICE
WPD	WATER SIDE PRESSURE DROP
YR	YEAR

VALVE SYMBOLS

	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	FLEXIBLE CONNECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	THREE-WAY MODULATING CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING VALVE (PRV)
	FLOW METER

PIPING SYMBOLS

	HOT WATER HEATING SUPPLY
	HOT WATER HEATING RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DRAIN LINE
	VENT LINE
	STEAM LINE
	CONDENSATE RETURN LINE
	CONDENSER WATER TO TOWER
	CONDENSER WATER FROM TOWER


GENERAL SYMBOLS

	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	PIPE (TOP, BOTTOM, SIDE)
	CONNECTION, 45° OR 90°
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
	THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
	THERMOMETER
	PRESSURE GAGE
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	THERMOSTAT

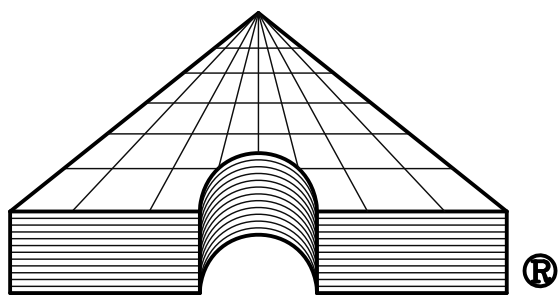
CONTROLS SYMBOLS

	HVAC CONTROL PANEL
	ADJUSTABLE SPEED DRIVE
	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
	ROOM THERMOSTAT
	TEMPERATURE TRANSMITTER
	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
	PRESSURE TRANSMITTER
	STATIC PRESSURE SENSOR
	FLOW TRANSMITTER
	SMOKE DETECTOR
	DIFFERENTIAL PRESSURE SWITCH
	HAND SWITCH (HAND-OFF-AUTO SWITCH)
	MOTOR STARTER
	ELECTRIC OPERATED CONTROL DAMPER/OR VALVE
	PRESSURE SWITCH HIGH
	PRESSURE SWITCH LOW
	LOCAL TEMPERATURE CONTROL PANEL

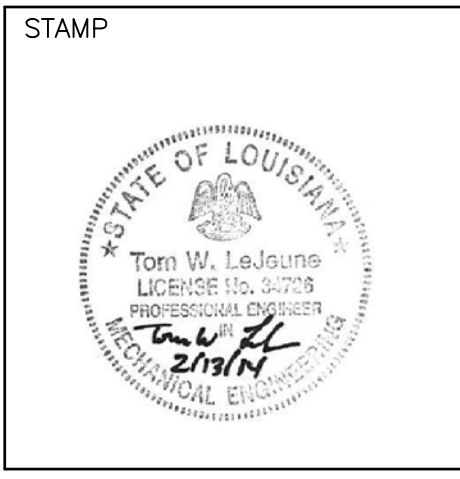
Revisions		
SYMBOL	NAME	Date



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architecture **planning** interior design
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ABM PROJECT #



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PROJECT No. 13224

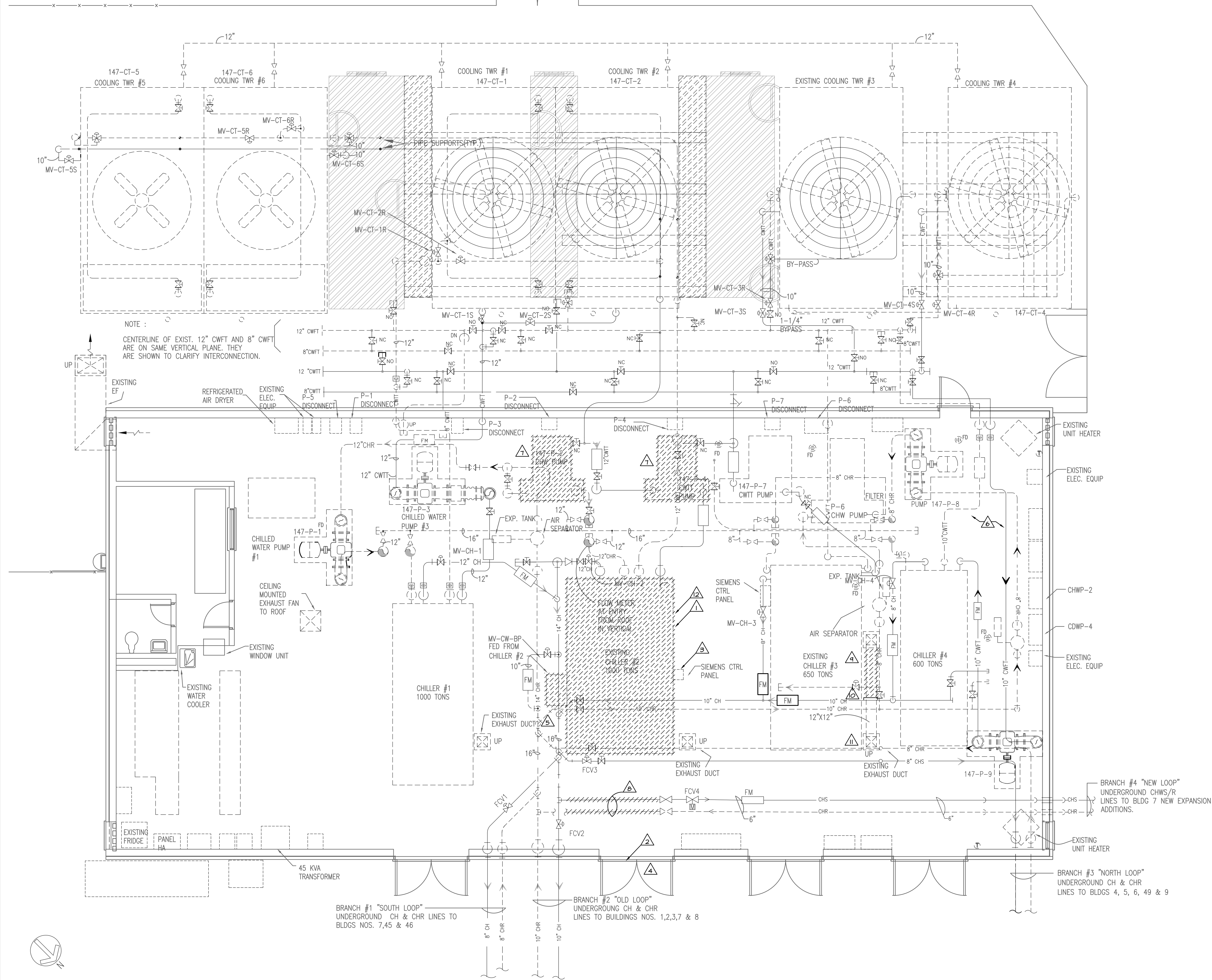


Drawing Title MECHANICAL LEGEND	
Approved:	
Approved:	

Project Title CHILLER #2 REPLACEMENT		
Building Number 147	Checked LWB	Drawn TWL
Location ALEXANDRIA, LOUISIANA		

Date 2-13-14
Project No. 000-00-000
DRAWING NO. 147-M-1
Dwg. 2 of X

Veterans
Administration



**COOLING TOWER AND CHILLER
DEMOLITION PLAN - MECHANICAL**
SCALE : 1/4" = 1' - 0"

- MECHANICAL KEYNOTES:**
1. REMOVE EXISTING CHILLER SHOWN HATCHED.
 2. REMOVE EXISTING DOOR AND AND CUT WALL AS REQUIRED TO INSTALL NEW CHILLER. VERIFY EXTEND OF WALL TO BE CUT WITH ACTUAL EQUIPMENT SELECTED/APPROVED. RELOCATED ALL DEVICES AS REQUIRED. PATCH WALL AND RE-INSTALL DOOR AS REQUIRED.
 3. RELOCATE CONTROL PANEL AS REQUIRED TO INSTALL NEW CHILLER.
 4. CONTRACTOR SHALL CLEAN AND PAINT EXISTING DOOR.
 5. REMOVE EXISTING CHILLER #2 STARTER IN THIS VICINITY.
 6. REFER TO ELECTRICAL PLANS FOR VFD REMOVAL. TURN VFD OVER TO OWNER.
 7. REMOVE EXISTING PUMP SHOWN HATCHED.
 8. REMOVE EXISTING PIPING AS REQUIRED TO INSTALL NEW CHILLER #2.
 9. REMOVE EXISTING PORTION OF EXHAUST DUCTWORK SHOWN HATCHED.
 10. CAP EXISTING EXHAUST IN THIS VICINITY. REFER TO SHEET 147-M-3. PREPARE DUCTWORK FOR NEW CONNECTIONS AS REQUIRED.
 11. REMOVE EXISTING ROOF TOP FAN AND RELOCATE AS SHOWN ON SHEET M-3.
 12. THE CONTRACTOR SHALL REMOVE REFRIGERANT FROM CHILLER #2 AND TURN OVER TO OWNER. CONTRACTOR SHALL PROVIDE CONTAINERS FOR OWNER TO KEEP.

NOTE: THERE MAY BE OTHER PROJECTS IN THIS BUILDING AND THROUGHOUT THE CAMPUS AT THE TIME OF CONSTRUCTION. SOME WORK MAY NEED TO BE COORDINATED WITH OTHER CONTRACTORS.

NOTE: CONTRACTOR SHALL PROVIDE FENCE AROUND CONSTRUCTION AREA. REFER TO SPECIFICATIONS.

NOTE: CONTRACTOR SHALL SUBMIT PHASING PLAN TO MINIMIZE DOWN TIME OF CHILLER PLANT.

NOTE: CONTRACTOR SHALL PROVIDE A 600 TON TEMPORARY CHILLER(S) TO SUPPLEMENT EXISTING CHILLERS AT ANY TIME ANY EXISTING CHILLERS ARE UNABLE TO SUPPLY THE CAMPUS.

NOTE: CONTRACTOR SHALL PROVIDE 1/4" LAYOUT OF NEW EQUIPMENT TO BE INSTALLED PRIOR TO ANY WORK.

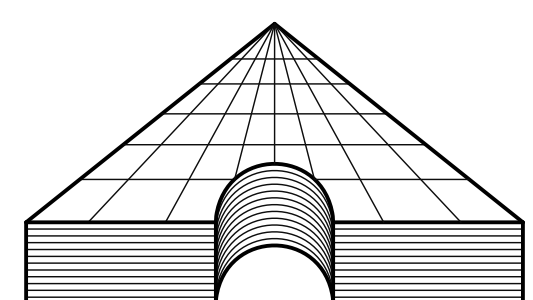
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDE ACCURATE AND ACCEPTABLE AS BUILT DRAWINGS.

BRANCH #4 "NEW LOOP"
UNDERGROUND CHWS/R
LINES TO BLDG 7 NEW EXPANSION
ADDITIONS.

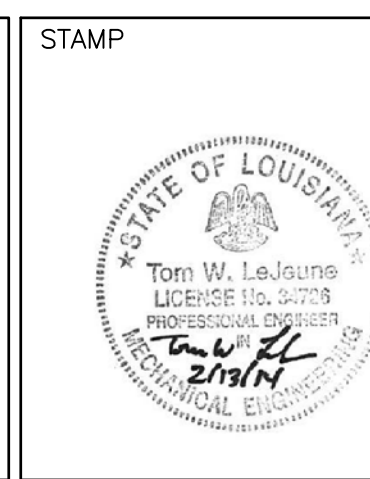
BRANCH #3 "NORTH LOOP"
UNDERGROUND CH & CHR
LINES TO BLDGS 4, 5, 6, 49 & 9

Revisions		
SYMBOL	NAME	Date

ABM
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PROJECT No. 13224

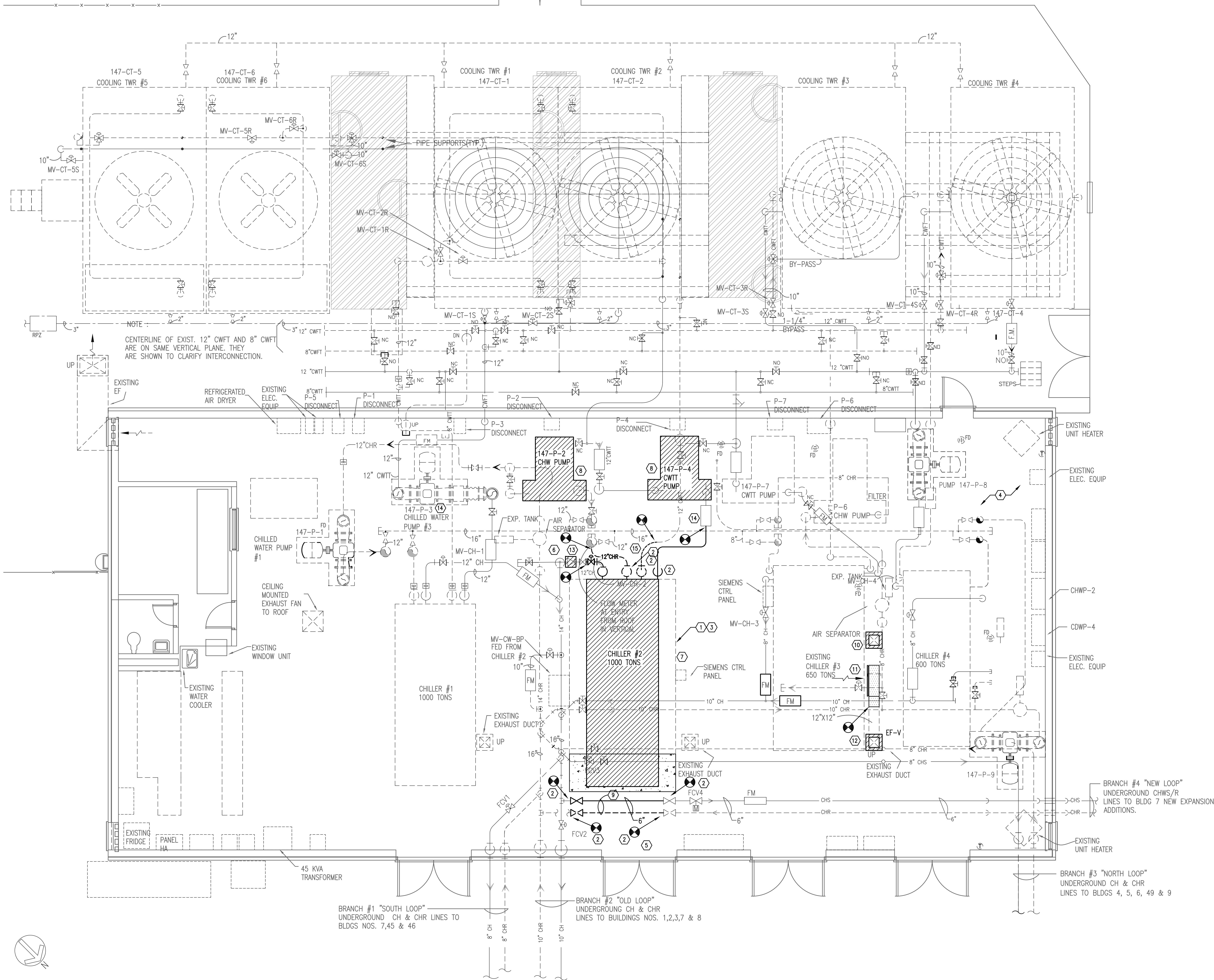


Drawing Title CENTRAL PLANT LAYOUT	
Approved:	
Approved:	

Project Title CHILLER #2 REPLACEMENT	
Building Number 147	Checked LWB
Location ALEXANDRIA, LOUISIANA	

Date 2-13-14
Project No. 000-00-000
Drawing No. 147-M-2
Dwg. 3 of X

**Veterans
Administration**



- MECHANICAL KEYNOTES:
1. INSTALL NEW CHILLER #2 IN THIS VICINITY. INCREASE PAD SIZE AS REQUIRED. EXISTING PAD IS APPROXIMATELY 124" X 204". VERIFY EXACT REQUIREMENTS IN FIELD PRIOR TO BIDDING.
 2. CONNECT TO EXISTING PIPING IN THIS VICINITY.
 3. INSTALL NEW CHILLER IN THIS VICINITY. INSTALL NEW 6" HIGH CONCRETE PAD 6" AROUND PERIMETER OF NEW CHILLER.
 4. REFER TO ELECTRICAL PLANS FOR NEW VFD INSTALLATION LOCATIONS AND SPECIFICATIONS.
 5. VERIFY CHILLER SIZE WITH EXISTING DOOR. REMOVE COMPONENTS AS NECESSARY TO PASS CHILLER THROUGH DOOR. COORDINATE EXACT REQUIREMENTS IN FIELD PRIOR TO BIDDING.
 6. INSTALL NEW FLOW METER IN THIS VICINITY. MATCH EXISTING TYPE.
 7. EXTEND REFRIGERANT MONITOR SYSTEM FOR THE NEW CHILLER IN THIS VICINITY. PROVIDE ANY UPGRADES REQUIRED FOR A COMPLETE AN OPERATIONAL SYSTEM. EXTEND REFRIGERANT RELIEF LINES THROUGH ROOF.
 8. INSTALL NEW PUMP IN THIS VICINITY.
 9. INSTALL 6" CHILLED WATER SUPPLY AND RETURN LINES AFTER CHILLER HAS BEEN LOCATED IN BUILDING. PROVIDE NEW CUTOFF VALVES AT MAIN HEADER.
 10. RELOCATE EXHAUST FAN TO THIS VICINITY ABOVE EXISTING DUCTWORK AND CONNECT EXHAUST FAN TO DUCTWORK. FAN SHALL REMAIN INTERLOCKED WITH REFRIGERANT MONITOR WITH NO CHANGE IN IT SEQUENCE OF OPERATION.
 11. INSTALL NEW 36"x24" ALUMINUM EGGRATE GRILLE IN THIS VICINITY. TRANSITION EXHAUST DUCTWORK AS REQUIRED TO ALLOW GRILLE TO BE PLACED AT A LEVEL WHERE THE HEAT REJECTED FROM CHILLER #3 IS CAPTURED BY GRILLE.
 12. PROVIDE NEW EXHAUST FAN ON ADAPTED CURB IN THIS VICINITY. FAN SHALL RUN CONTINUOUSLY.
 13. INSTALL OWNER PROVIDED MODULATING VALVE IN CHILLED WATER SUPPLY PIPING.
 14. CONTRACTOR SHALL REMOVE AND REPLACE FLEX COUPLING ON CHILLED WATER PUMP #3.
 15. PROVIDE PIPE SUPPORTS IN THIS VICINITY (TYPICAL) TO SUPPORT NEW PIPING AS REQUIRED.

NOTE: CONTRACTOR SHALL PROVIDE 1/4" LAYOUT OF NEW EQUIPMENT TOGETHER WITH CHILLER EQUIPMENT SUBMITTAL TO BE INSTALLED PRIOR TO ANY WORK.

NOTE: CONTRACTOR SHALL MAKE PROVISIONS WITH TEMPORARY CONNECTIONS TO RUN EXISTING CHILLERS TO EACH LOOP WITH MAIN HEADER IS BEING ENLARGED.

NOTE: EXISTING WATER TREATMENT PROVIDER IS TMB (THORNTON - MUSSO - BELLEMIN) (800) 762-9104

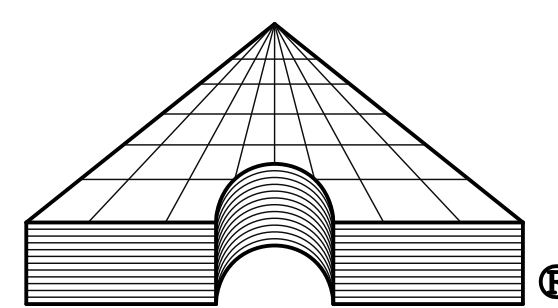
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR CHEMICAL TREATMENT FOR ENTIRE PLANT FOR (1) ONE FULL YEAR AFTER SUBSTANTIAL COMPLETION.

NEW COOLING TOWER AND CHILLER PLAN - MECHANICAL

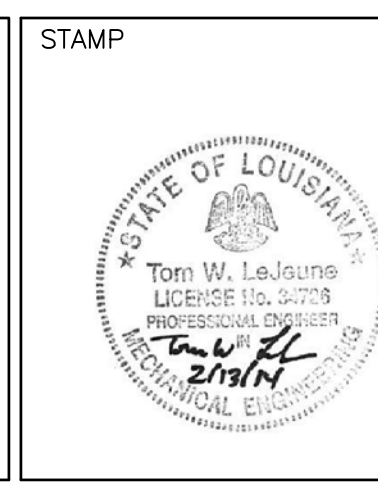
SCALE : 1/4" = 1' - 0"

Revisions		
SYMBOL	NAME	Date

ABM
ARCHITECTS **BEAZLEY** MOLIÈRE
architecture **planning** interior design
337 233 0614
FAX 233 7338
P.O. BOX 51877
LAFAYETTE, LOUISIANA 70505
ABM PROJECT #



ASSOCIATED DESIGN GROUP, INC.
Lafayette, Louisiana (337) 234-5710
PROJECT No. 13224

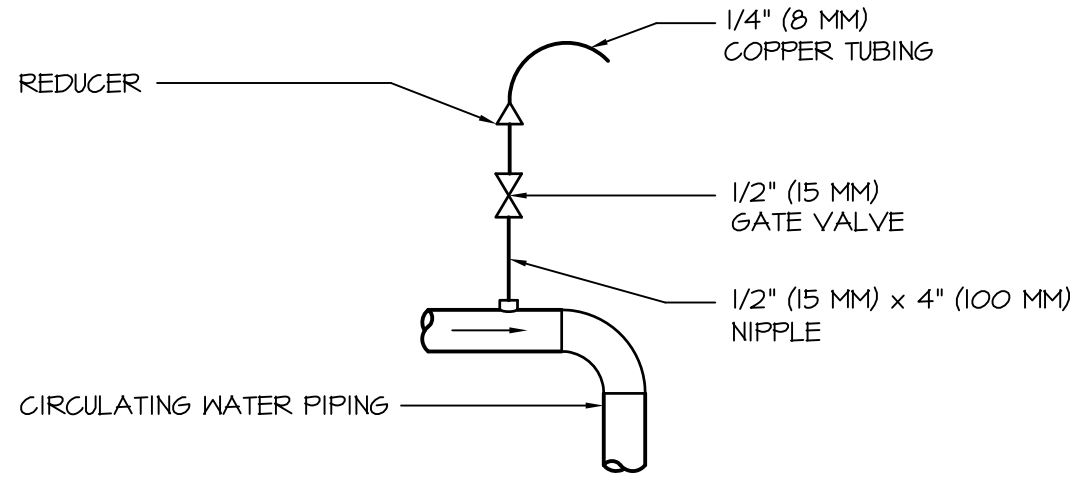


Drawing Title CENTRAL PLANT LAYOUT	
Approved:	
Approved:	

Project Title CHILLER #2 REPLACEMENT	
Building Number 147	Checked LWB
Location ALEXANDRIA, LOUISIANA	Drawn TWL

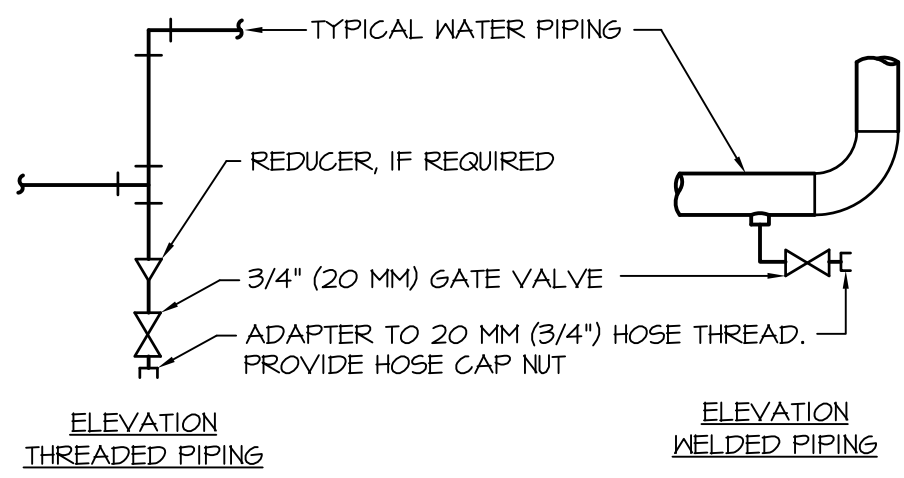
Date 2-13-14
Project No. 000-00-000
Drawing No. 147-M-3
Dwg. 3 of X

Veterans Administration



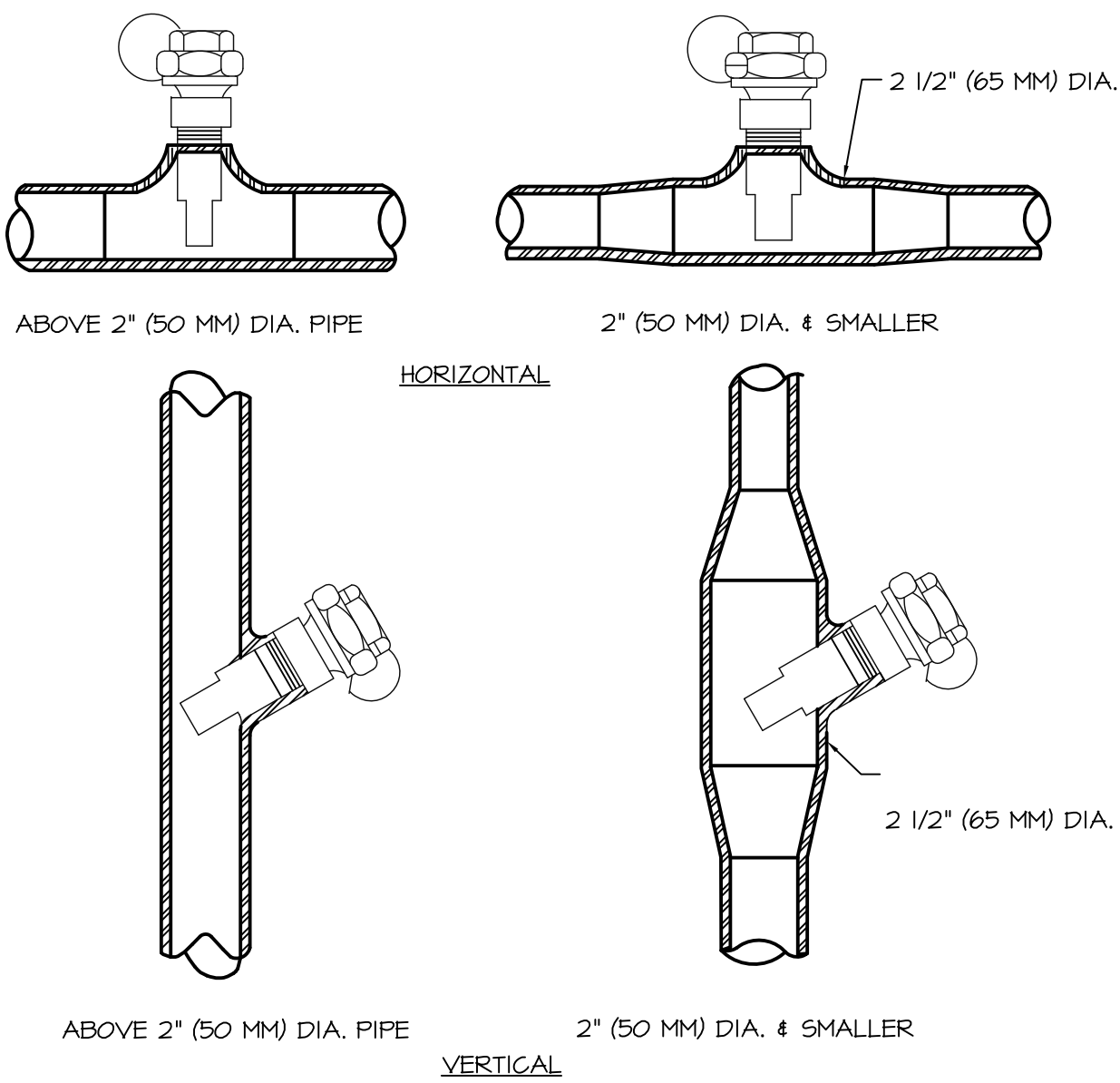
TYPICAL AIR VENT

- NOTES:
- VENT ALL HIGH POINTS INDICATED ABOVE.
 - IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

- NOTES:
- DRAIN ALL LOW POINTS AS INDICATED ABOVE.
 - WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



INSTALLATION OF THERMOMETER WELLS

FAN SCHEDULE										
FAN NO.	LOCATION	CFM	S.F. IN.	FAN TYPE	ARRANGEMENT, ROTATION & DISCHARGE	WHEEL TYPE	MIN. DIA. IN. (Ø)	MAX. RPM	DRIVE	MAX. BHP
EF-V*	ROOF	1,000	0.50	CENT	UP BLAST	CF	---	1250	DIRECT	0.2

NOTE:

* PROVIDE BACKDRAFT DAMPER AND SOLID STATE SPEED CONTROLLER ON FAN HOUSING. PROVIDE ADAPTER CURB AS REQUIRED.

WATER COOLED CHILLER SCHEDULE													
UNIT NO.	LOCATION	MIN. TONS	NPLV	MAX. KW PER TON (W)	COMPRESSOR HP (KW) INPUT	MOTOR PHASE VOLT	GPM	ENT. WATER TEMP. °F	LVS. WATER TEMP. °F	MAX. P.D.	GPM	ENT. WATER TEMP. °F	LVS. WATER TEMP. °F
2*	BLDG. 147	1000	.340	.636	636	3-480	2400	54.0	44.0	18.7	3000	97	87

REMARKS: SMART WA400.6LG10 W/ 4 COMPRESSORS (MIN) OR APPROVED EQUIVALENT **

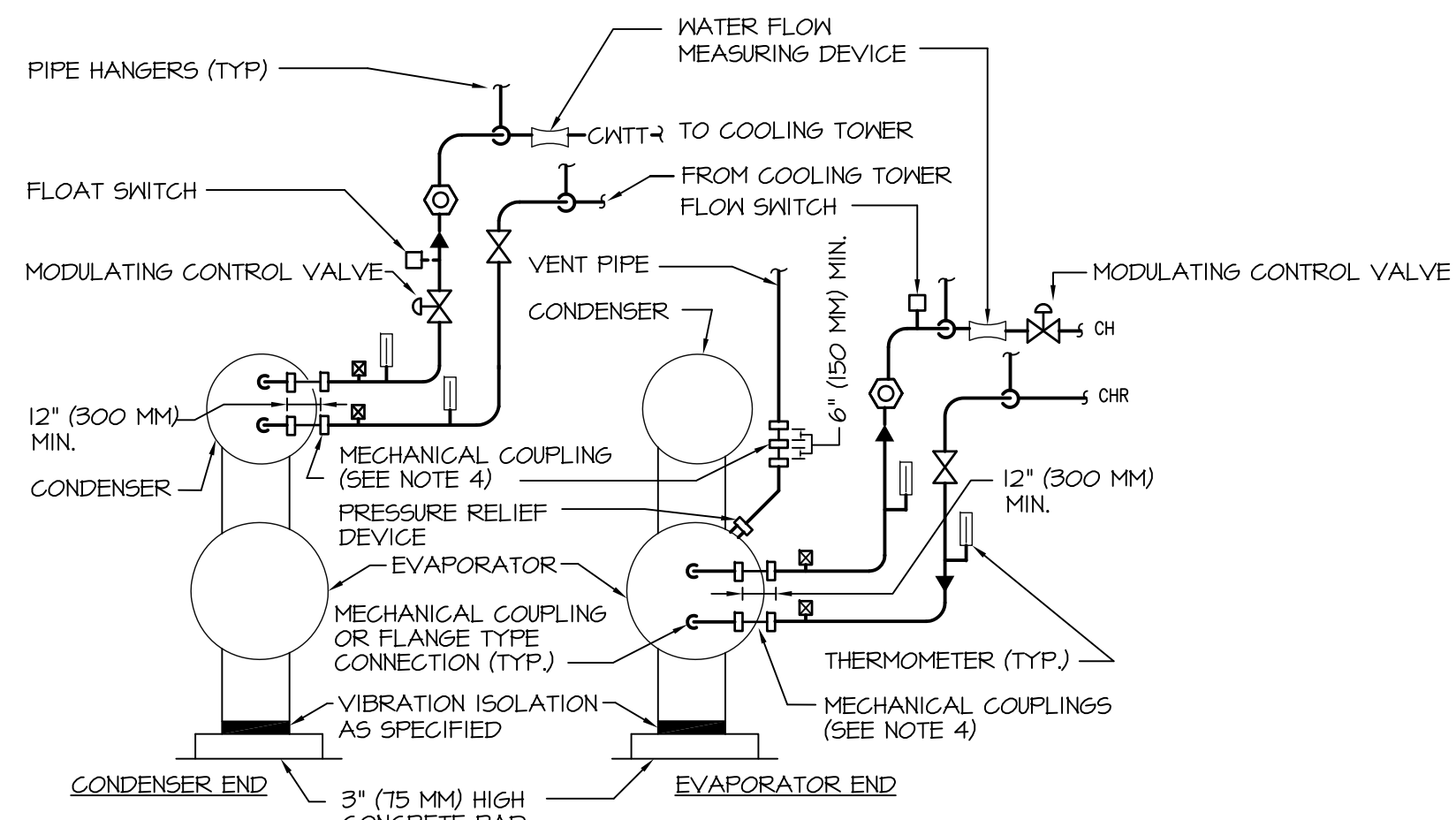
* CHILLER SHALL HAVE VFD

**CHILLER SHALL HAVE INTERGAL DISCONNECT SWITCH AND DISCONNECT ALONG WITH CONTROL PANEL SHALL BE INSTALLED SUCH THAT THE TOP OF THE DISCONNECT AND CONTROL PANELS ARE NOT HIGHER THAN 6' 7" AFF

HVAC PUMP SCHEDULE										
PUMP NO.	LOCATION	SYSTEM	FLUID	GPM	PUMP HEAD FT (M) FLUID	TEMP. °F	SP. GR.	% EFF.	TYPE	REMARKS
147-P2*	BLDG. 147	CHILLED WATER	WATER	2400	155	44	1.0	85	DOUBLE SUCTION	TACO MODEL TA2038 OR APPROVED EQUAL
147-P4**	BLDG. 147	COND. WATER	WATER	3000	85	87	1.0	86	DOUBLE SUCTION	TACO MODEL TA2530 OR APPROVED EQUAL

* CHILLED WATER PUMP SHALL BE A HORIZONTAL SPLIT CASE DOUBLE SUCTION.

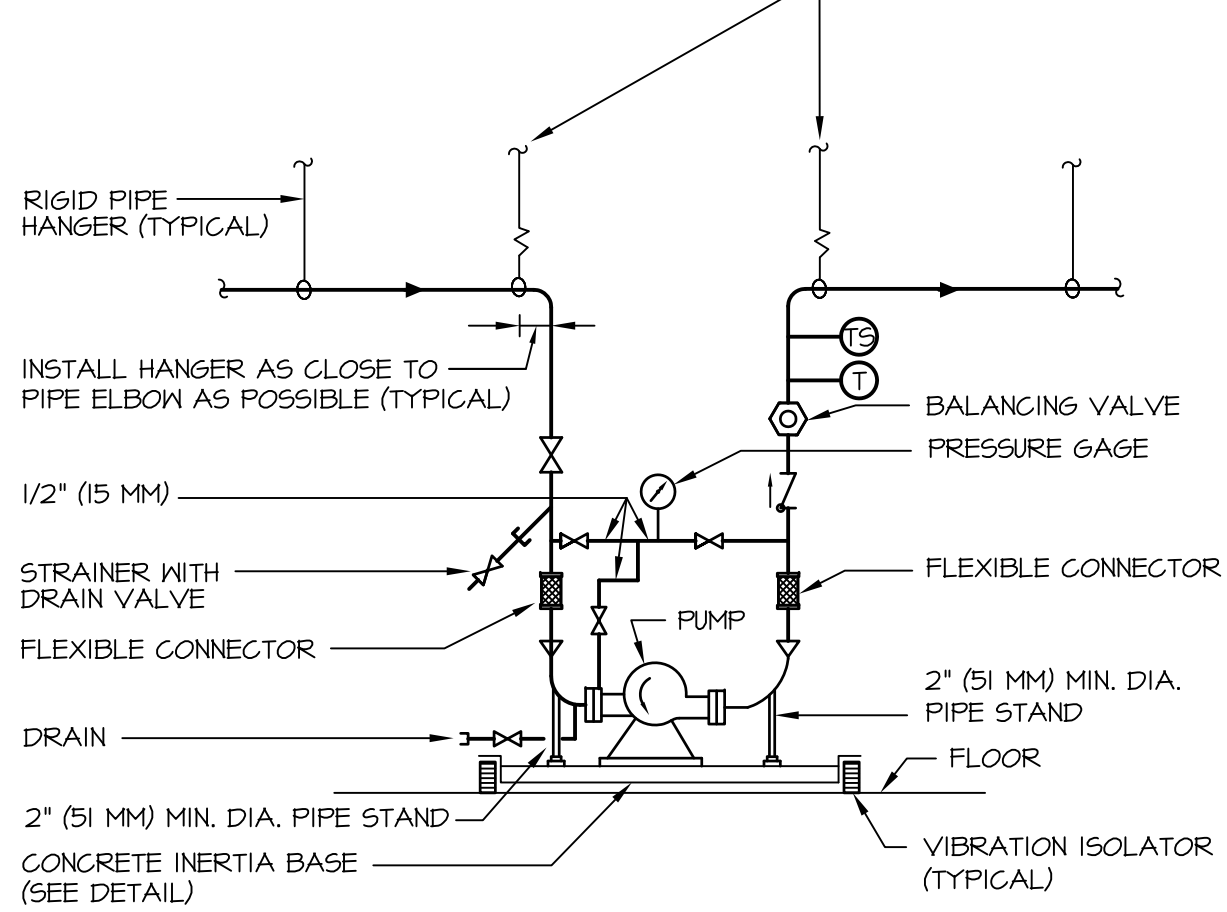
**CONDENSER WATER PUMP SHALL BE A DOUBLE SUCTION TOP DISCHARGE TO MATCH EXISTING.



TYPICAL PIPING CONNECTIONS TO WATER COOLED ELECTRIC CHILLER

- NOTES:
- DRAIN ALL LOW POINTS OF SYSTEMS TO NEAREST FLOOR DRAIN.
 - PROVIDE ADDITIONAL MECHANICAL COUPLINGS OR FLANGED CONNECTIONS TO REMOVE A MINIMUM AMOUNT OF PIPING FOR REMOVAL OF TUBES.
 - COLLECT VENT PIPES FROM ALL REFRIGERANT SAFETY RELIEF DEVICES AND EXTEND TO EXTERIOR OF BUILDING IN ACCORDANCE WITH ANSI B-41.1. HEADER SIZE TO EQUAL OR EXCEED TOTAL AREA OF DEVICES CONNECTED TO THE HEADER.
 - FOR CHILLERS ON SPRING ISOLATORS PROVIDE FLEXIBLE CONNECTORS IN LIEU OF MECHANICAL COUPLINGS.

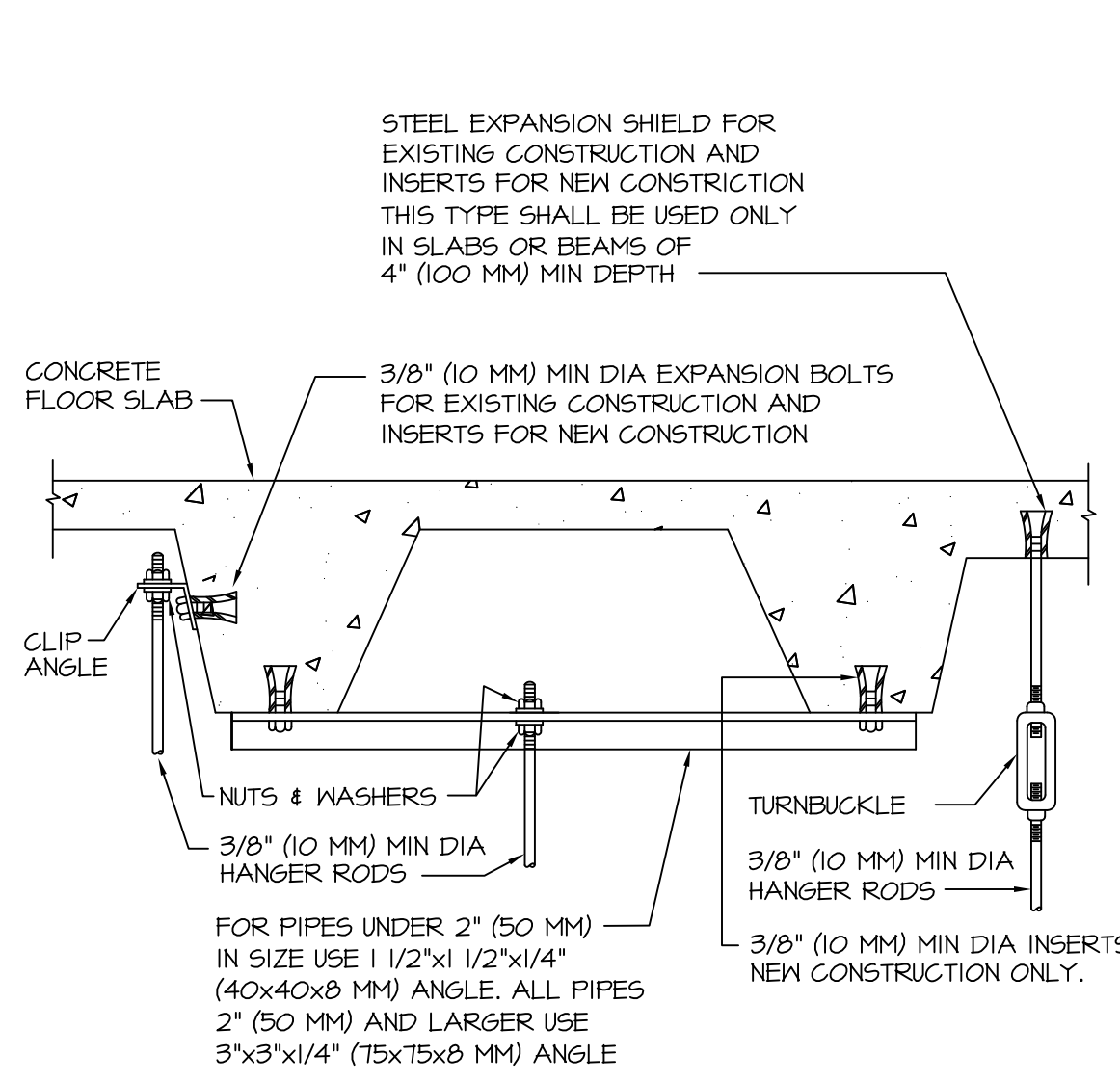
FIRST 3 HANGERS FOR EACH PIPE AND BRANCH SHALL BE SPRING 4 NEOPRENE TYPE. TYPE "H" FOR 4" (100 MM) DIA. PIPE AND SMALLER. TYPE "H-P" FOR 5" (125 MM) DIA. PIPE AND LARGER.



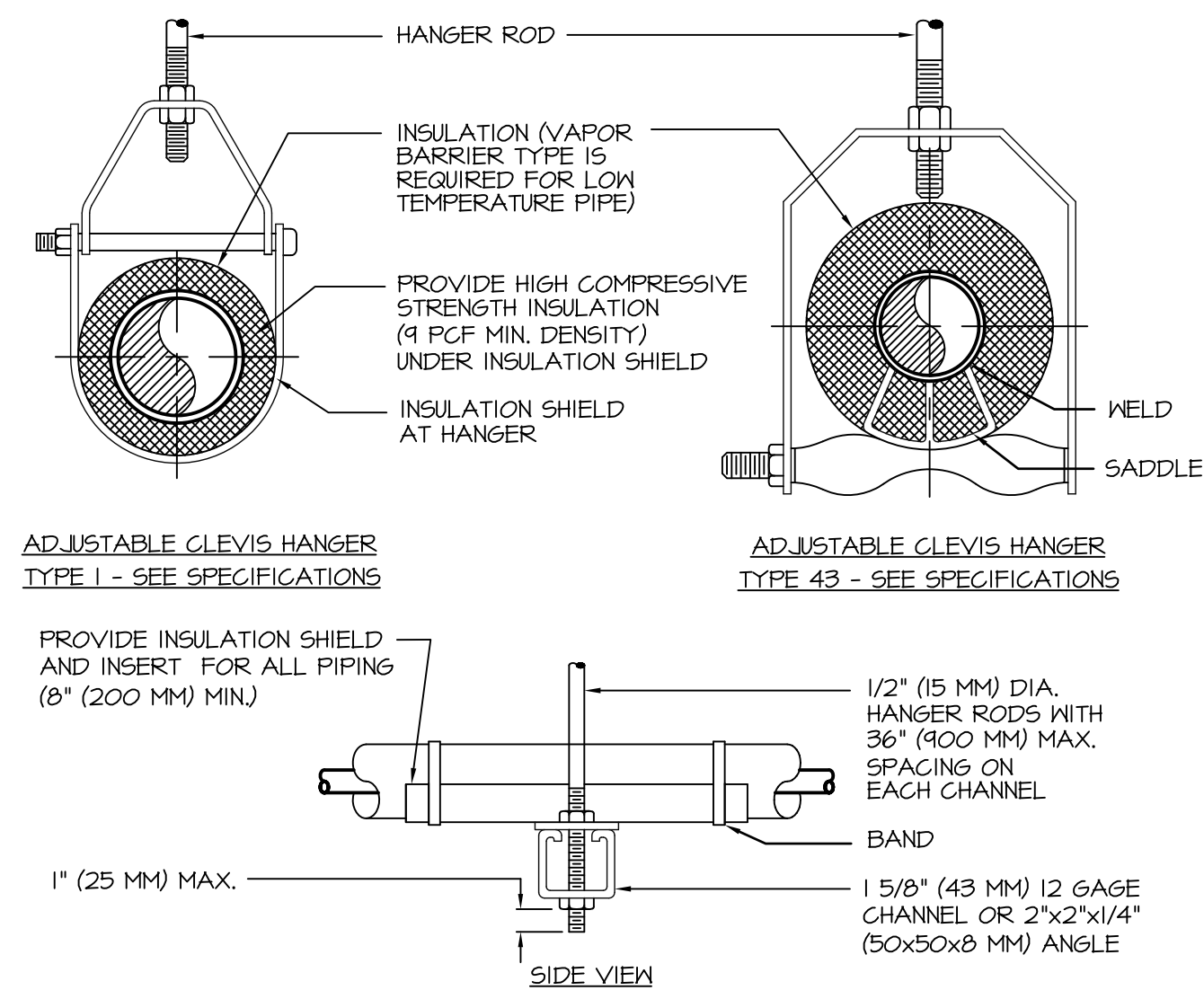
TYPICAL PIPING CONNECTIONS TO FLOOR MOUNTED DOUBLE SUCTION WATER PUMPS

NOTE:

SEE SPECIFICATION SECTION "PUMPS" FOR Y STRAINER OPTION.



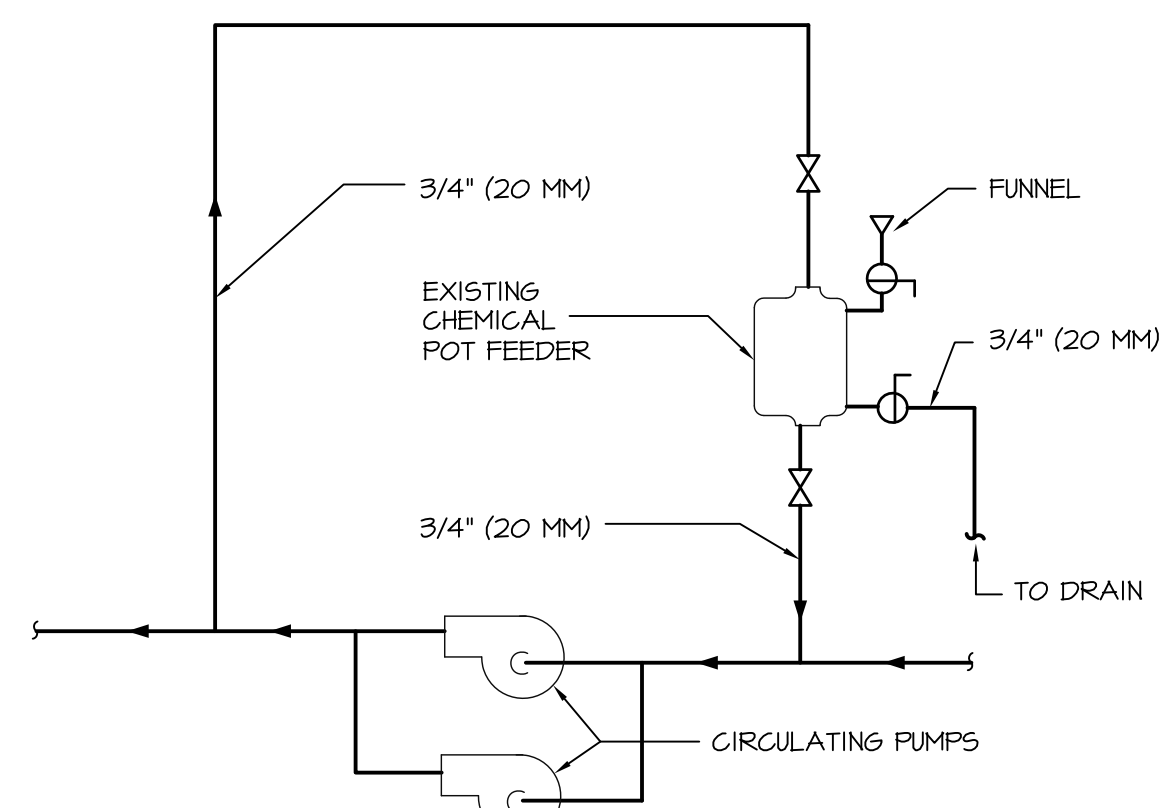
TYPICAL METHOD OF SECURING HANGER RODS IN CONCRETE SLABS AND BEAMS.



TYPICAL PIPE HANGERS

NOM. SIZE IN. (MM)		THRU 3/4 (20) (25) (32) (40) (50) (65) (75) (100) (125) (150) (200) (250) (300) (350) (400) (450) (500) (600) (600)																					
PIPE	FT (M)	7 (2.1)	8 (2.4)	10 (3.0)	12 (3.7)	14 (4.3)	16 (4.9)	18 (5.5)	20 (6.1)	24 (7.3)	30 (9.1)	36 (11.0)	42 (12.8)	48 (14.6)	60 (18.3)	72 (22.0)	90 (27.4)	108 (32.9)	120 (36.6)	144 (44.1)	168 (51.4)	180 (54.9)	240 (73.2)
TUBING	FT (M)	5 (1.5)	6 (1.8)	8 (2.4)	10 (3.0)	12 (3.7)	14 (4.3)	16 (4.9)	18 (5.5)	20 (6.1)	24 (7.3)	30 (9.1)	36 (11.0)	42 (12.8)	48 (14.6)	60 (18.3)	72 (22.0)	90 (27.4)	108 (32.9)	120 (36.6)	144 (44.1)	168 (51.4)	180 (54.9)

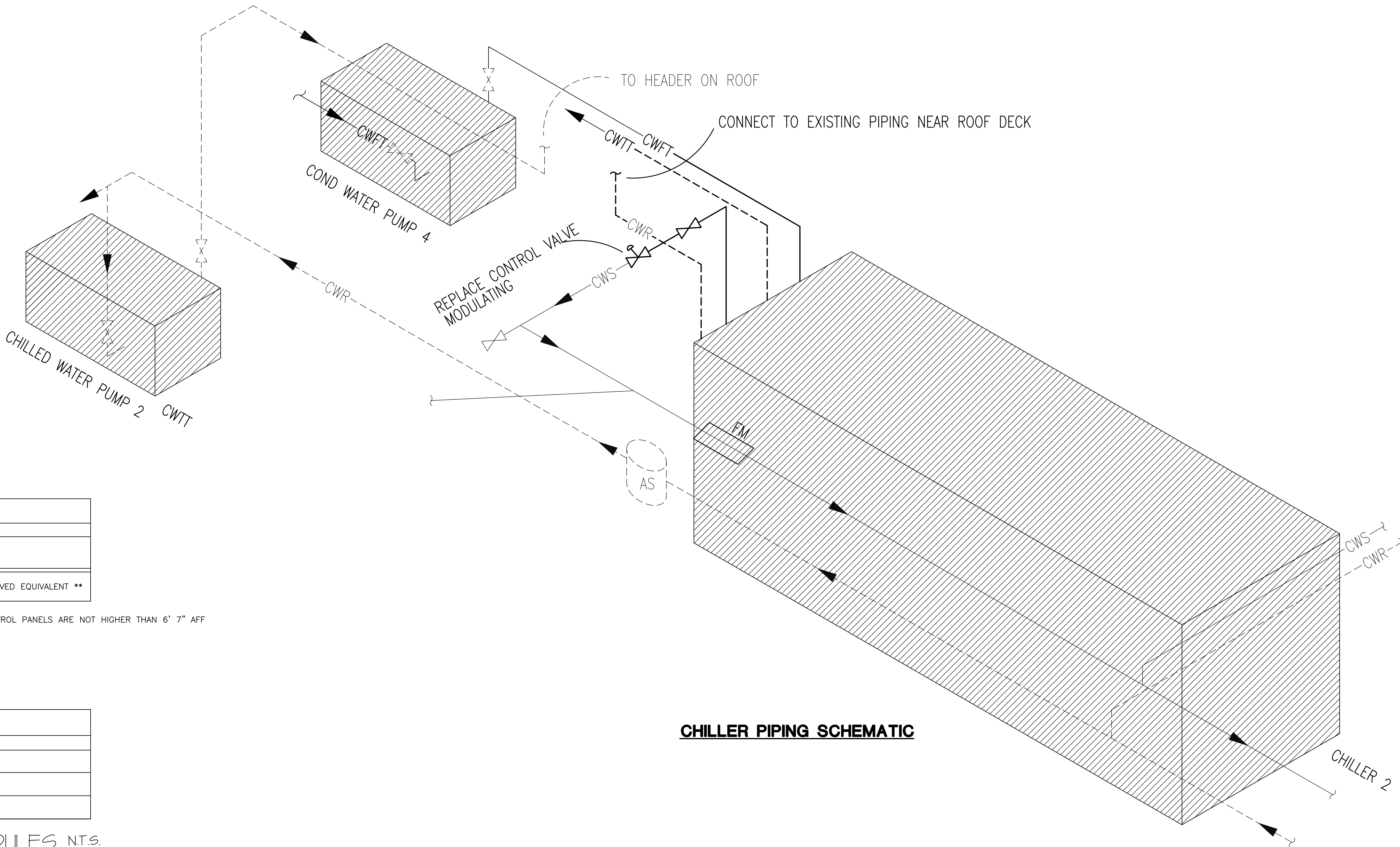
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



EXISTING CHILLED WATER TREATMENT SYSTEM

NOTES:

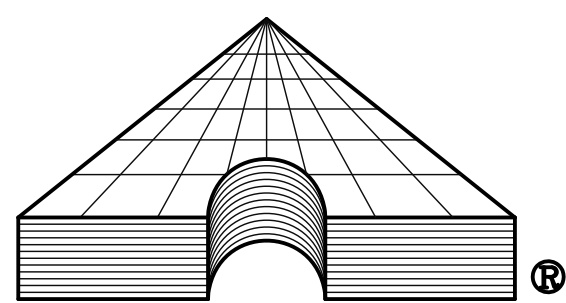
- COORDINATE TREATMENT WITH OWNER CHEMICAL TREATMENT WITH OWNER CHEMICAL COMPANY PRIOR TO BIDDING. THORNTON - M550 - BELLEMIN 800 - 762 - 9104



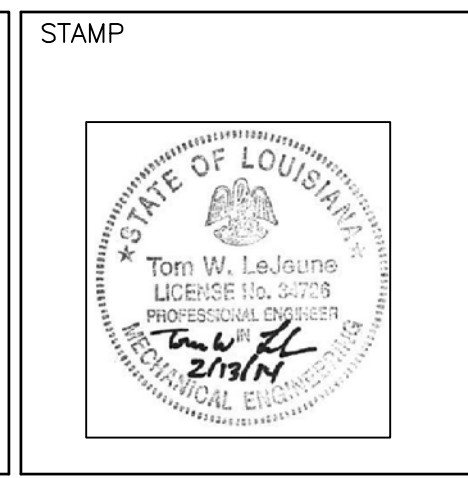
CHILLER PIPING SCHEMATIC

Revisions		
SYMBOL	NAME	Date

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architecture **planning** interior design
337 233 0614
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LAFAYETTE, LOUISIANA 70505
ABM PROJECT #



ASSOCIATED DESIGN GROUP, INC.
Lafayette, Louisiana (337) 234-5710
PROJECT No. 13224

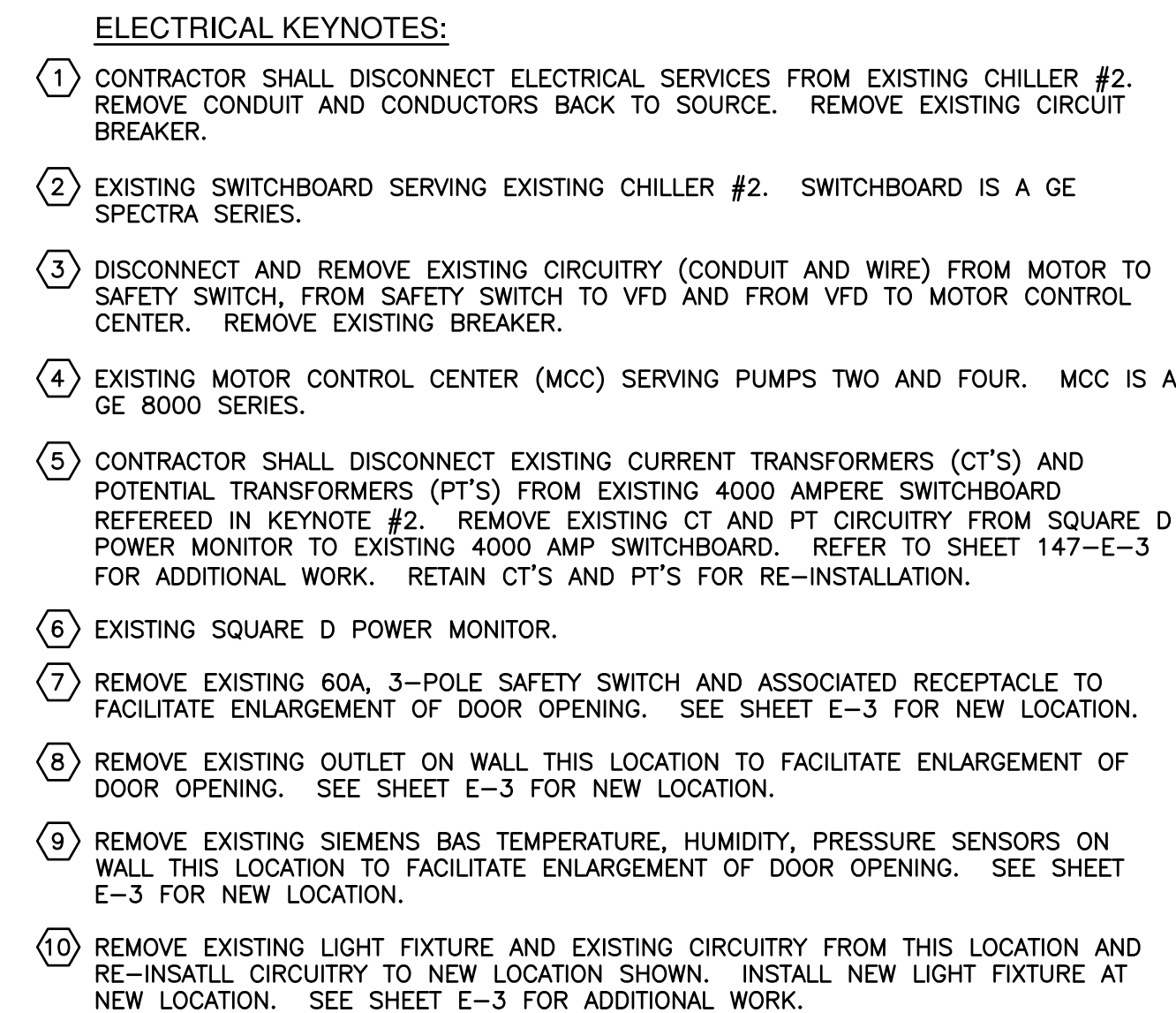


Drawing Title	
MECHANICAL SCHEDULES AND DETAILS	
Approved:	
Approved:	

Project Title	
CHILLER #2 REPLACEMENT	
Building Number	147
Checked	LWB
Drawn	TWL
Location	
ALEXANDRIA, LOUISIANA	

Date
2-13-14
Project No.
000-00-000
DRAWING NO.
147-M-4
Dwg. 4 of X

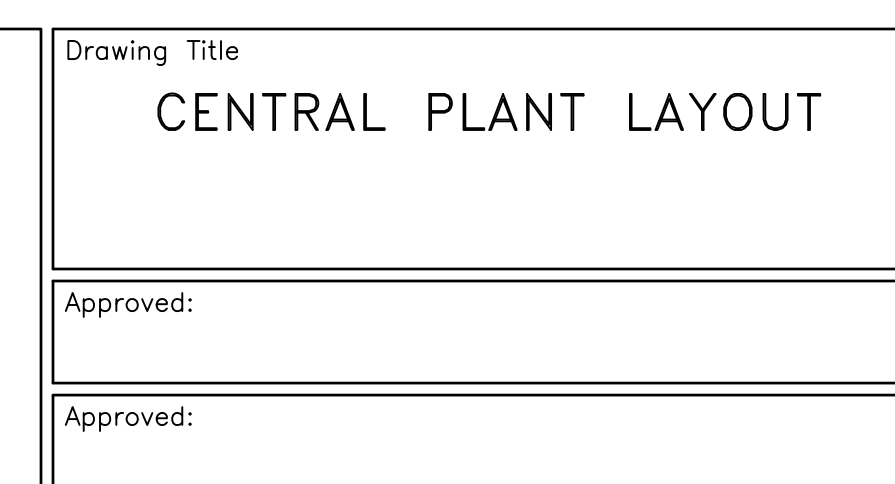
Veterans Administration



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

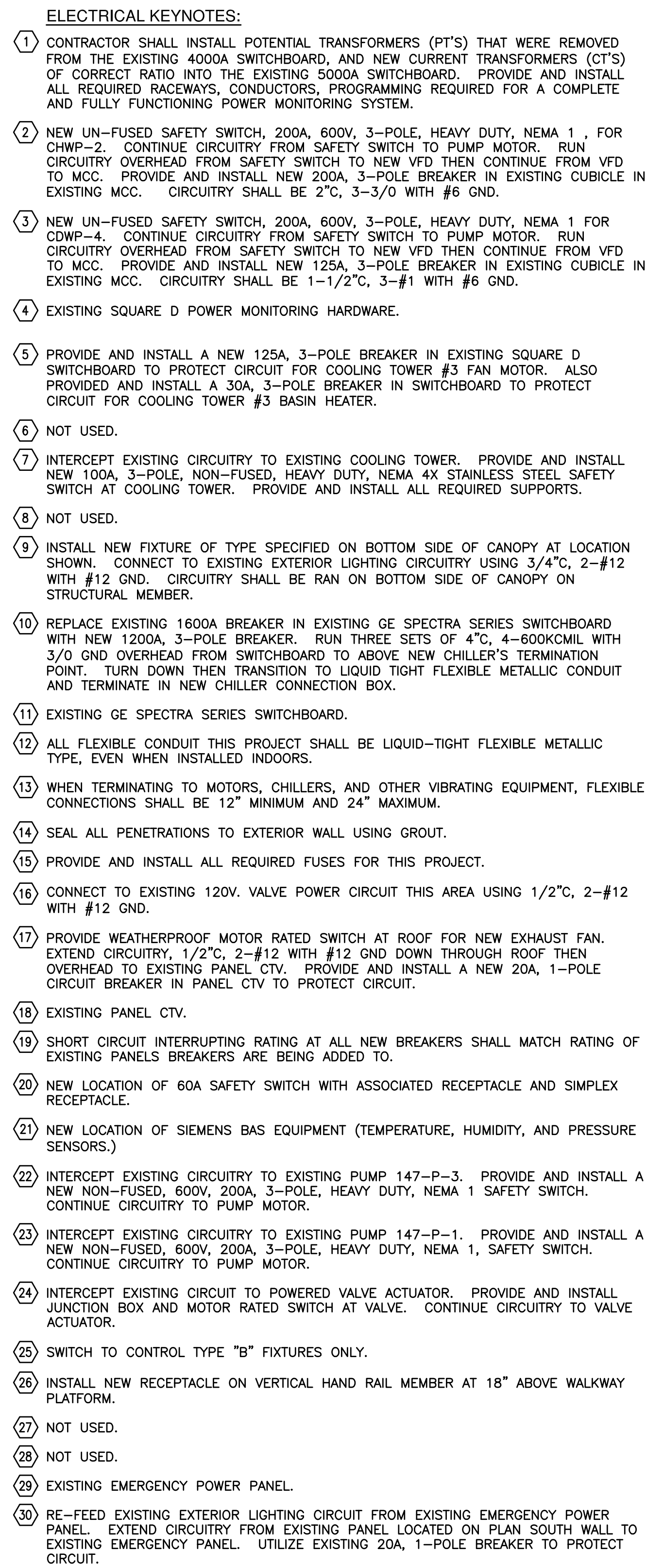
NOTE: CONTRACTOR SHALL PROVIDE 1/4" LAYOUT OF NEW EQUIPMENT TO BE INSTALLED PRIOR TO ANY WORK.


ABM
ARCHITECTS **BEAZLEY** MOLIERE
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337 233 0614
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ABM PROJECT #

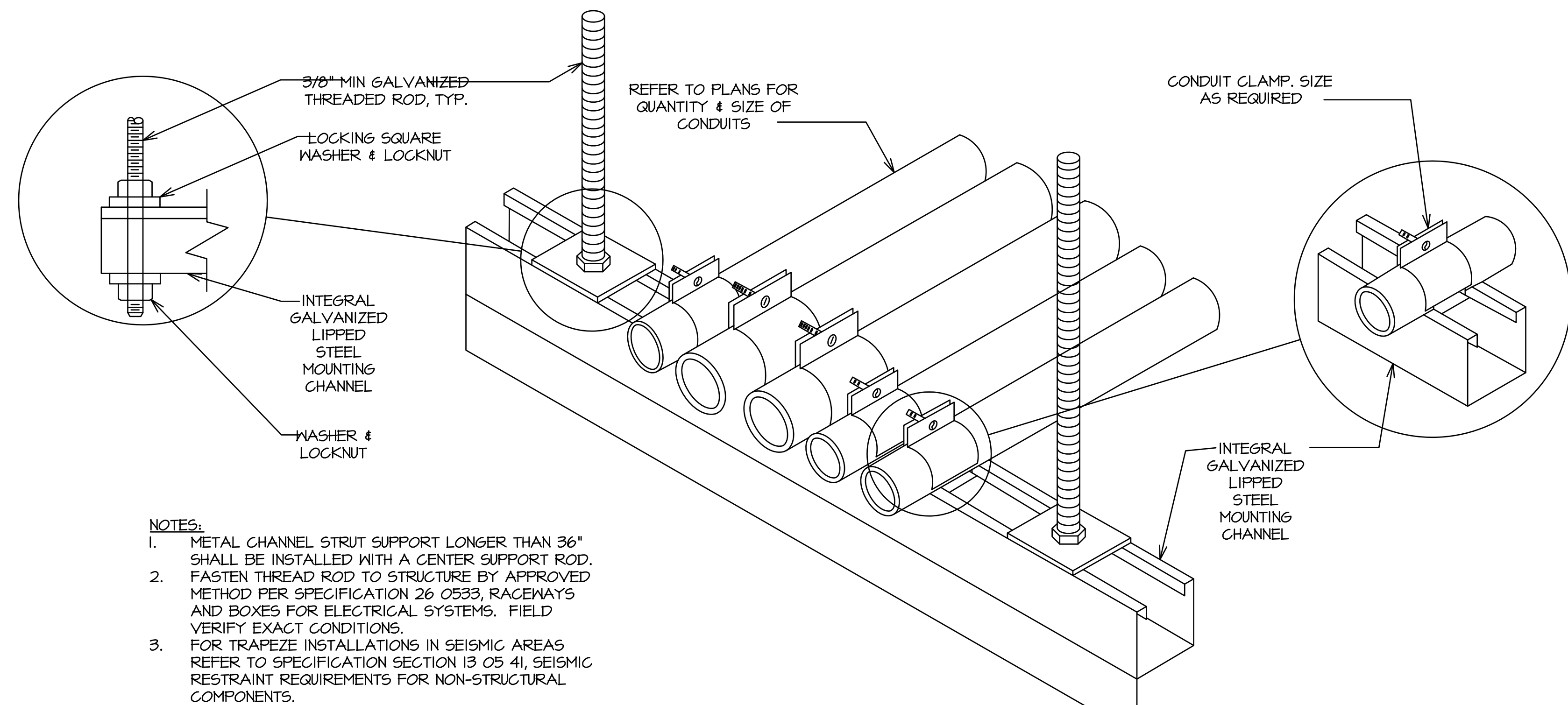


Project Title CHILLER #2 REPLACEMENT			Date 2-13-14
Building Number 147			Project No. 000-00-000
Checked DS	Drawn --	DRAWING NO. 147-E-2	
Location ALEXANDRIA, LOUISIANA			Dwg. <u>3</u> of <u>X</u>

Veterans Administration



STAMP 	Drawing Title CENTRAL PLANT LAYOUT		Project Title CHILLER #2 REPLACEMENT		Date 2-13-14	Veterans Administration
	Approved:		Building Number 147	Checked DS	Drawn --	
	Approved:		Location ALEXANDRIA, LOUISIANA		DRAWING NO. 147-E-3	
					Dwg. 3 of X	

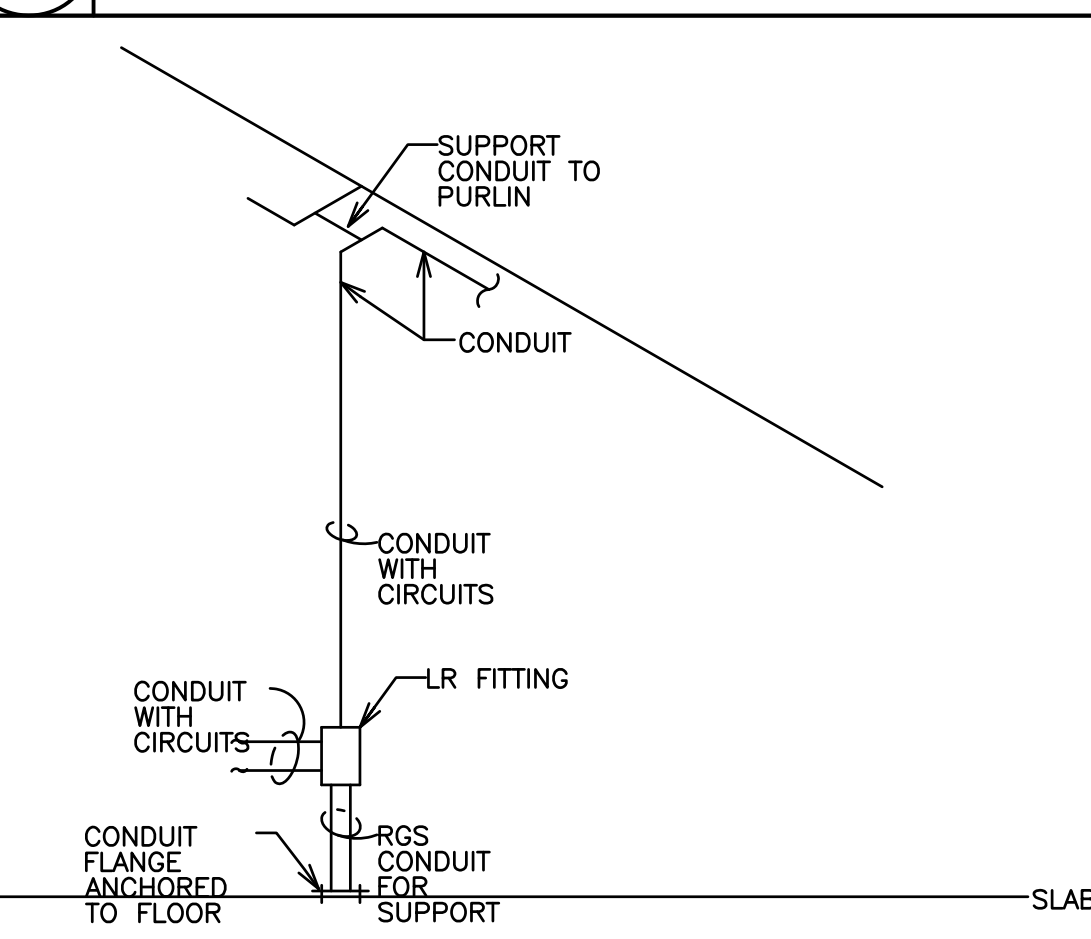
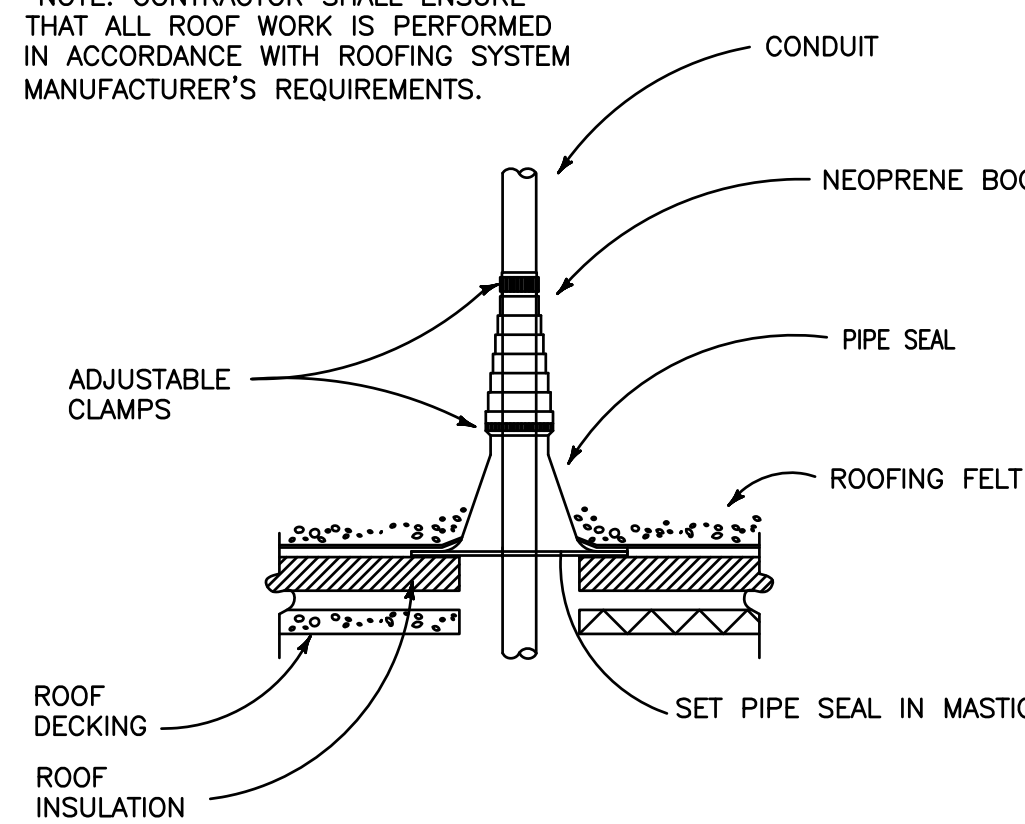


(INDICATE EQUIPMENT DESCRIPTION)
FUSED AT ___ AMPERES
FED FROM
(INDICATE FEEDER ORIGINATION LOCATION)
(PANEL AND CIRCUIT NO.)
TYPICAL DISCONNECT PLAQUE

ATTACH PLAQUES USING
INDUSTRIAL GRADE DOUB
FACE ADHESIVE.

CONDUIT TRAPEZE MOUNTING DETAIL

*NOTE: CONTRACTOR SHALL ENSURE THAT ALL ROOF WORK IS PERFORMED IN ACCORDANCE WITH ROOFING SYSTEM MANUFACTURER'S REQUIREMENTS.








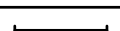







CONDUIT ROOF PENETRATION DETAIL
NO SCALE

OVERHEAD CONDUIT DROP SUPPORT
NO SCALE

<p>A. COMPLETE CONNECTIONS TO ALL EQUIPMENT & PROVIDE PROPER CONDUIT SUPPORT/STRAPS (ELECTRIC) OR RIGID PVC (PLUMBING). COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH RESPECTIVE CONTRACTOR PRIOR TO BEGINNING WORK.</p>	<p>F. FURTHERMORE, THE CONTRACTOR SHALL AT ALL TIMES CONSULT WITH THE COR AND FOLLOW THE COR'S ISSUED PERMITS. THE CONTRACTOR SHALL INSURE THE CONTINUED SAFE FUNCTIONING OF THE OWNER'S OPERATIONS. THE CONTRACTOR SHALL MINIMIZE ENCUMBRANCES TO THE OWNER'S OPERATIONS AT ALL TIMES AND SHALL NOTIFY THE OWNER OF ANY WORK ENCUMBRANCES PRIOR TO THE OPERATION OF THE OWNER AT LEAST THREE DAYS PRIOR TO PERFORMING SAID WORK.</p>	<p>J. THE CONTRACTOR SHALL ASK FOR DETAILS AND/OR INSTRUCTIONS WHEN UNCERTAIN HOW TO PROCEED. THE LACK OF REQUEST FOR DETAILS DOES NOT EXCUSE SLOPPY OR IMPROPER WORK. CORRECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT THE CONTRACTOR'S COSTS TO THE OWNER.</p>	<p>Y. THE CONTRACTOR SHALL MAINTAIN FULL COMPATIBILITY WITH THE ELECTRICAL SYSTEM. CONTRACTOR SHALL IMMEDIATELY NOTIFY COR IN WRITING OF ANY DISCREPANCIES BETWEEN THE REQUIRED ROUGH-IN REQUIREMENTS AND THE ELECTRICAL SYSTEM.</p>
<p>B. REFER TO SPECIFICATIONS PRIOR TO ANY ROUGH-IN WORK FOR SPECIFIC REQUIREMENTS RELATIVE TO ROUGH-IN OF DEVICES.</p>	<p>G. REFER TO DEMOLITION PLANS FOR DEFINITION OF ALL ITEMS TO REMAIN AND BE RE-USED AS WELL AS ITEMS TO BE REMOVED.</p>	<p>K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING ALL SALVAGED ITEMS TO AN OWNER DESIGNATED STORAGE FACILITY.</p>	<p>Z. REFER TO SPECIFICATIONS PRIOR TO ANY ROUGH-IN WORK FOR SPECIFIC REQUIREMENTS RELATIVE TO ROUGH-IN OF DEVICES.</p>
<p>C. CONTRACTOR SHALL PROPERLY SEAL PENETRATIONS TO RATED ASSEMBLIES AND ALL EXTERIOR WALLS TO PROPERLY MAINTAIN RATING & ASSEMBLIES AND BUILDING ENVELOPE.</p>	<p>H. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</p>	<p>M. CONTRACTOR SHALL REFER TO ALL OTHER PORTIONS OF THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, ADDENDA, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS AND ANY APPROVED CHANGE ORDERS) AND PROVIDE ALL LIGHT FIXTURES, OUTLETS, TELEDATA OUTLETS, AND ASSOCIATED CIRCUITRY AS IF ORIGINALLY INCLUDED ON THE ELECTRICAL PLANS. IF THERE ARE ANY DISCREPANCIES, CONTRACTOR SHALL COR IN WRITING PRIOR TO BEGINNING EQUIPMENT, ROUGH-IN FOR EQUIPMENT AND/OR INSTALLATION OF EQUIPMENT. PRIOR TO EACH EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF SUCH DRAWINGS, OR ORDERS FOR SUCH EQUIPMENT</p>	<p>AA. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK TO BE DONE.</p>
<p>D. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS VERIFYING THAT THE WORK CAN BE PERFORMED AS DESCRIBED IN THE CONTRACT DOCUMENTS, PRIOR TO SUBMITTING A BID.</p>	<p>I. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE COR FOR CLARIFICATION. DIMENSIONS AND CONDITIONS NOTING INTO OR COVERED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE PERFECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING, PREPARING SHOP DRAWINGS, OR ORDERING MATERIALS.</p>		
<p>E. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL LOCATE ALL WORK TO REMAIN, INCLUDING, BUT NOT LIMITED TO PLUMBING, MECHANICAL, STRUCTURAL AND ARCHITECTURAL, TO REMAIN, AND SHALL PROTECT SUCH WORK FROM DAMAGE DURING ANY CONSTRUCTION.</p>			

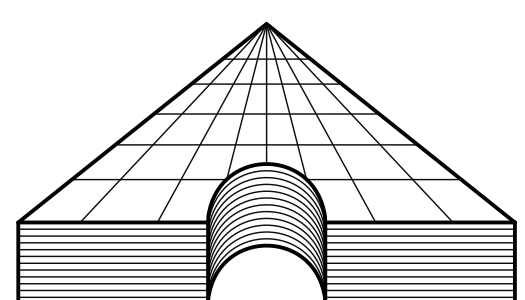
0	PHASE			MCP	MOTOR CIRCUIT PROTECTOR		SCHED	SCHEDULE
A	AC	ARMOR CLAD CABLE	FACP	FIRE ALARM CONTROL PANEL	MFS	MAN DISTRIBUTION PANELBOARD	SFL	SUPPLY FAN
AB	AMPERE		FACU	FIRE ALARM CONTROL UNIT	MECH	MECHANICAL	SFL	SUB FEED LUGS
AC	ABOVE FLOOR / AMPERE FRAME	FDC	FAN COIL UNIT	MFC	MAN FUSED SWITCH		SFL	SURROUND FASTENED PANEL
ACI	AC-FEED FAULT CIRCUIT INTERRUPTING	FDS	FEDS DISCONNECT SWITCH	MDG	MEDICAL GAS PANEL		SH	SHEET
AF	AFCE FAULT CIRCUIT INTERRUPTING	FLM	FILM ILLUMINATOR	MINS	MINERAL INSULATED CABLE		SN	SOLID NEUTRAL
AFI	ABOVE FINISHED FLOOR	FLR	FLOOR	MNO	MINIMUM		SPC	SPACE
AFU	ARCT FAULT INTERRUPTING	FPU	FUEL PROCESSING UNIT	MLO	MAN LUGS ONLY		SPEC	SPECIFICATION
AH	AIR HANDLING UNIT	FTL	FEED THRU LUGS	MTD	MOUNTED		SPR	SPARE
AI	AMPERE INTERRUPTING CAPACITY			MTS	MANUAL TRANSFER SWITCH		SS	STAINLESS STEEL
AL	ALUMINUM	GA	GAUGE	MV	MECHANICAL VOLTAGE		STD	SHORT TIME DELAY
AM	AMMETER	GE	GROUNDING EQUALIZER CONDUCTOR				STP	SHIELDED TWISTED PAIR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GEN	GENERATOR	NA	NOT APPLICABLE		STR	STARTER
ATS	ANALOG TRANSFER SWITCH	GNC	GROUND FAULT CIRCUIT INTERRUPTING	NB	NORMALLY CLOSED		SWBD	SWITCHBOARD
AV	AUDIO VISUAL	GFI	GROUND FAULT INTERRUPTING	NEC	NATIONAL ELECTRICAL CODE		SWGR	SWITCHGEAR
AWG	AMERICAN WIRE GAUGE	GND	GROUND	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION			
				NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		TBB	TELECOMMUNICATIONS BONDING BACKBONE
BAS	BUILDING AUTOMATION SYSTEM	HC	HARMONIC CONDITIONING TRANSFORMER	NIC	NIC IN CONTRACT		T	TERMINAL CABINET
BRBD	BACKBOARD	HF	HARMONIC FILTER	NO	NORMALLY OPEN		TER	TERMINAL
BRK	CIRCUIT BREAKER	HFC	HARMONIC FILTER WITH INTEGRAL TRANSFORMER	NOT	NETWORK OPERATIONS CENTER		TEL	TELEPHONE
C	CONDUIT	HD	HIGH-INTENSITY DISCHARGE	NTS	NOT TO SCALE		TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
CAT	CATALOG	HOA	HAND OFF AUTO	OC	OUTSIDE AR		TGMG	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
CATV	CABLE ANTENNA TELEVISION	HP	HORSEPOWER	OC	ON CENTER		TR	TELECOMMUNICATIONS ROOM
CB	CIRCUIT BREAKER	HS	HARMONIC SUPPRESSION TRANSFORMER	OCPO	OVERCURRENT PROTECTIVE DEVICE		TRANS	TRANSITION
CBA	CLOSE BLUE ANNUNCIATOR PANEL	HSPK	HOSKHOUSKEEPING	OD	OUTSIDE DIAMETER		XMR	TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION	HT	HEATER	OH	OVERHEAD		USER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
CK	CIRCUIT	ID	INSIDE DIAMETER	P	POLE		TV	TELEVISION
CLG	CEILING	IS	ISOLATED GROUND	PB	PULLBOOTH/PUSHBUTTON		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
CM	CONSTRUCTION MANAGER	IMC	INTERMEDIATE METAL CONDUIT	PE	PNEUMATIC - ELECTRIC		TYPE	TYPICAL
CO	COMPANY	JB	JUNCTION BOX	PHV	PHASE		UC	UNDERCOUNTER
CT	COUNTER TOP MOUNTED	KV	KILOVOLT	PLG	PROGRAMMABLE LOGIC CONTROLLER		UGP	UNDERGROUND
CTCS	CLOSED TRANSITION TRANSFER SWITCH	KVA	KILOVOLT AMPERE	PP	POWER POLE		UGP	UNDERGROUND PRIMARY
CUP	COPPER	KW	KILOWATT	PSU	PATIENT SERVING UNIT		UGS	UNDERGROUND SERVICE
C.U.	CONDENSING UNIT	KWH	KILOWATT HOUR	PT	POTENTIAL TRANSFORMER		UPS	UNINTERRUPTIBLE POWER SUPPLY
		LA	LIGHTNING ARRESTOR	PTZ	PANTILT/Zoom		USB	UNIT SUBSTATION
D	DIMETER	LP	LIGHT POLE	PVC	POLYVINYL CHLORIDE		UTP	UNSHIELDED TWISTED PAIR
DA	DIVISION	LS	LIFE SAFETY	RWR	POWER			
DN	DOWN	LT	LONG TIME DELAY	REF	REFLECTED CEILING PLANS		V	VOLT
DWG	DRAWING	LTS	LIGHTING	REF	REFER TO		VA	VOLT-AMPS
		E	EXHAUST FAN	REC	RECEPTACLE		VFD	VARIABLE FREQUENCY DRIVE
E	EDENOTES EMERGENCY DEVICE	EXT	ELEVATOR	REF	REFRIGERATOR		WM	VOLTMETER
EGS	ENGINE-GENERATOR SET	MAX	MAXIMUM	RF	RETURN FAN		YSD	VARIABLE SPEED DRIVE
ELV	ELEVATOR	MAV	MASTER ANTENNA TELEVISION	RGS	ROTARY GALVANIZED STEEL		W	WATT
EMT	ELECTRICAL METALLIC TUBING	MCC	METAL CLAD CABLE	RM	ROOM		WI	WIRE
EQ	EQUIPMENT BY OWNER	MC	MAIN CIRCUIT BREAKER	RUPS	ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY		WP	WEATHERPROOF
EQU	EQUIPMENT	MCC	MOTOR CONTROL CENTER					
EWC	ELECTRIC WATER COOLER							

POWER SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	MOTOR STARTER
	DISCONNECT SWITCH
	DISCONNECT SWITCH
	JUNCTION BOX
	ELECTRICAL PANELBOARD
	ELECTRICAL PANELBOARD
	ELECTRICAL PANELBOARD
LIGHTING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
CIRCUITRY SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FLEXIBLE CONDUIT
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	HOMERUN TO ELECTRIC PANELBOARD
	MOTOR RATED TOGGLE SWITCH (48" A.F.F. OR AS NOTED)

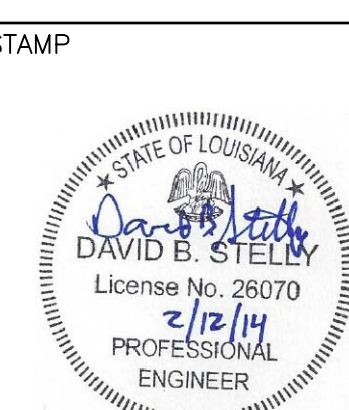
LIGHTING FIXTURE SCHEDULE						
MARK	DESCRIPTION	LAMPS	VOLTS	MOUNTING	MANUFACTURER	CATALOG No.
A	LED WALL PACK	LED	MULTI	SURFACE	LITHONIA	TWHL2D-30C-1000-40K- T3M-1MVOLT-DBLXD
B	LED VAPORTIGHT	LED	MVOLT	SURFACE	LITHONIA	VAP-79LED-ASY- WLFDN02-FOR EACH FIXTURE TYPE B ON PLANS PROVIDE TWO OF THESE FIXTURES CONNECTED END TO END.

Revisions		
SYMBOL	NAME	Date

ABM
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ABM PROJECT # _____



ASSOCIATED DESIGN GROUP, INC
Lafayette, Louisiana (337) 234-5710
PROJECT No. 13224



Drawing Title	ELECTRICAL SCHEDULES AND DETAILS
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Approved:

Approved:

Project Title	CHILLER #2 REPLACEMENT
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Building Number	117
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17	55	
Location		

Date

Project No.

DRAWING NO.

147-E-

**Veterans
Administration**