NOTE:

THE INFORMATION OF THIS SHEET IS SUPPLIED BY SKID PUMP VENDOR, AND DESCRIBES THE SKID MOUNTED FIRE PUMP. THE EQUIPMENT WILL BE PURCHASED BY OWNER, AND IS TO BE INSTALLED BY THE CONTRACTOR; REFER TO SPECIFICATIONS. CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE INSTALLATION WITH SKID PUMP VENDOR.

POWER CIRCUIT REQUIREMENTS (BY OTHERS)

CKT NO.	ITEM	DESCRIPTION	VOLT	PHASE	HERTZ
CKT 1	EA	MOTOR CONTROLLER	460	3	60
CKT 2	EC	JOCKEY CONTROLLER	460	3	60

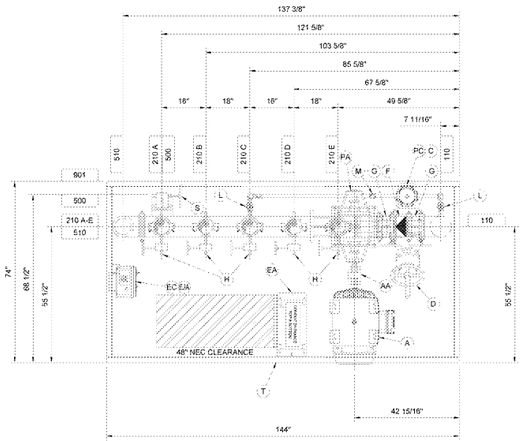
REMOTE ALARM CONTACTS (BY OTHERS)

EJA-R	EJA	ALARM JUNCTION BOX, REMOTE CONTACTS

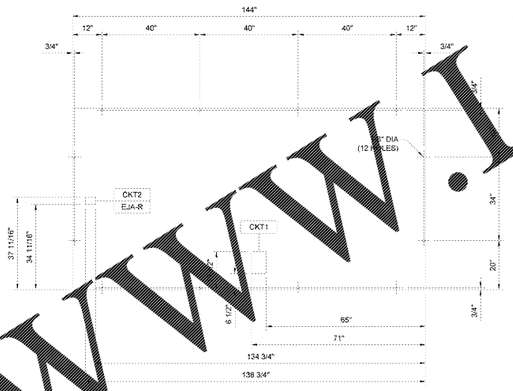
BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	
PA	1	FIRE PUMP: PEERLESS 6AEF17 HORIZONTAL SPLIT CASE, BRONZE FITTED, CW ROTATION. UL/FM	1250
A	1	MOTOR: WEG 404TS 100HP @ 1800RPM, 460V/3PH/60HZ	1037
AA	1	COUPLING: KTR ROTEX 65 FLEXIBLE [illegible] GUARD	15
PC	1	JOCKEY PUMP: GRUNDFOS CR 10 MULTI-STAGE, CENTRIFUGAL TYPE	64
C	1	MOTOR: 56C 1 1/2 HP, 1725 RPM, 208V/230V/460V/3PH [illegible] TEFC ODP	
D	1	GATE VALVE: NIBCO T-104-O-RW 8" 175PSI FLANGED, W/ POTTER TAMPER SWITCH, UL/FM	300
E	1	CHECK VALVE: ANVIL [illegible]P 8" 250PSI SWING TYPE, UL/FM	56
F	1	CHECK VALVE: NIBCO [illegible]00-W 8" 250PSI GROOVED, UL/FM	30
G	3	BUTTERFLY VALVE: NIBCO [illegible]4765 8" 175PSI GROOVED W/ TAMPER SWITCH, UL/FM	156
H	5	BUTTERFLY VALVE: NIBCO GD-4765 6" 175PSI GROOVED W/ TAMPER SWITCH, UL/FM	150
J	5	SPRINKLER RISER: PES 6" X 31" LG GROOVED W/ POTTER VSR-F FLOW SWITCH, GAUGE, 2" SIGHT GLASS & 2" TEST & DRAIN VALVE W/ RELIEF VALVE	250
---	1	HOSE HEADER: PES 8" 125# FLG W/ (6) 2 1/2" ANGLE STYLE HOSE VALVES, CAPS & CHAINS & 1/2" DRAIN VALVE (SHIP LOOSE)	209
L	2	GATE VALVE: NIBCO T-104 1" 175PSI, RISING STEM, OS&Y SOLID WEDGE DISC, THREADED, UL/FM	10
M	1	CHECK VALVE: NIBCO KT-403-W 1" 200PSI, THREADED, UL/FM	3
---	4	GAUGES: SUCTION/DISCHARGE W/ ISOLATION VALVE (NOT SHOWN)	12
P	1	AUTO AIR RELEASE VALVE: PES 1/2" 175PSI	5
---	1	CASING RELIEF VALVE: KUNKLE 3/4" 175PSI, UL/FM	6
S	1	BUTTERFLY VALVE: NIBCO GD-4765-C-8N 8" 175PSI GROOVED W/ TAMPER SWITCH, UL/FM	52
T	1	SKID: PES 74" WD X 144" LG, OPEN STYLE	2800
U	1	CHECK VALVE: NIBCO KG-900-W 6" 250PSI, GROOVED UL/FM	18
		ELECTRICAL COMPONENTS	
EA	1	FIRE PUMP CONTROLLER: FIRETROL FTA1300 NEMA 2, UL/FM, WYE-DELTA	270
EC	1	JOCKEY PUMP CONTROLLER: FIRETROL FTA550F, NEMA 2, UL/FM	15
EJA	1	ALARM JUNCTION BOX	25
		ESTIMATED PIPING WEIGHT	2000
		TOTAL WEIGHT (LBS).	8347

MANUFACTURERS INDICATED ARE SUBJECT TO CHANGE BASED ON AVAILABILITY

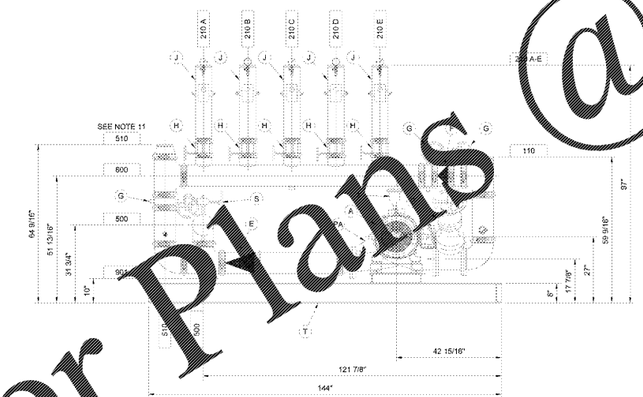


PLAN VIEW



FOUNDATION LAYOUT

7/8" DIA (12 HOLES)
ANCHOR BOLTS BY OTHERS



ELEVATION VIEW

SHIPPED LOOSE ITEMS

USER CONNECTION LIST

CUST. NO.	PES NO.	SIZE	RATING	TYPE	DESCRIPTION
	310	6"	150#	GROOVED	SUCTION: MOTOR DRIVEN FIRE PUMP
	600	6"	150#	GROOVED	DISCHARGE: SPRINKLER RISER
	800	8"	150#	GROOVED	DISCHARGE: TEST HEADER
	510	6"	150#	GROOVED	FIRE DEPT. CONNECTION
	901	2"	150#	FNPT	DRAIN: SPRINKLER RISERS

LINE IDENTIFICATION LIST

CUST. NO.	PES NO.	SIZE	RATING	TYPE	DESCRIPTION
	310	1/2"	150#	FNPT	DISCHARGE: CASING RELIEF VALVE
	600	8"	150#		CITY BY-PASS LINE
	810	1/2"	1100#	TUBING	DRAIN: MOTOR DRIVEN PUMP

CONTRACTOR CHECKLIST:
1. CONTRACTOR TO PROVIDE EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO COMPLETE ITEMS ON HIS CHECKLIST. REFER TO SPECIFICATION 13900S FOR FULL LIST OF CONTRACTOR - PROVIDED ITEMS.
2. ANY DAMAGED OR MISSING PARTS MUST BE NOTED TO PUMP VENDOR WITHIN 10 DAYS OF RECEIPT ON SITE.
3. PRIOR TO INSTALLATION, PUMP BE PROTECTED AND STORED ON A LEVEL SURFACE.
4. PERIMETER BEAMS SHALL BE ANCHOR BOLTED TO THE FOUNDATION PER SPECIFICATION 13900S
5. 3/4" TO 1 1/2" GROUT UNDER FRAME AND ALL CONTACT POINTS, INCLUDING PUMP AND DRIVER. USING ADJUSTMENT BOLTS TO LEVEL AND SET SKID. SPACE UNDER PUMP MUST BE COMPLETELY FILLED WITH GROUT AND LEVELING WEDGES IN PLACE OR PRODUCT WARRANTY IS VOIDED.
6. FILL INTERIOR SKID WITH COMPACTED MATERIAL ON BOTTOM AND A MINIMUM OF 4" OF CONCRETE ON TOP. TO BE LEVEL WITH EXTERIOR BEAMS.
7. CONTRACTOR TO PRE-ALIGN PUMP PRIOR TO GROUTING FRAME AND CONTACT POINTS.
8. FILL PUMP BASE PLATE WITH GROUT TO BE LEVEL WITH PUMP BASE PLATE BEAMS.
9. PIPE CONNECTIONS ARE TO BE NO-STRAIN AND VERIFIED PRIOR TO SETTING SKID. CONNECTIONS ON SKID ARE TO BE CHECKED FOR TIGHTNESS BY CONTRACTOR DUE TO VIBRATIONS IN TRANSIT.
10. PUMP CONTROLLER CONDUIT TO BE BOTTOM ENTRANCE ONLY.
11. CHECK VALVE FOR FDC SHIPPED LOOSE TO BE INSTALLED (HORIZONTAL POSITION ONLY) IN FIELD BY CONTRACTOR.
12. FINAL COUPLING ALIGNMENT REQUIRED AFTER PUMP IS GROUTED AND ANCHOR BOLTS ARE SET.
13. SHAFT ROTATIONS MUST BE CHECKED PRIOR TO CONNECTION OF COUPLING TO PUMP TO AVOID DAMAGE.

MOTOR DRIVEN FIREPUMP
MDL: 6AEF17
CONDITIONS:

RATED CAPACITY:	1250 gpm
RATED HEAD:	219.45 ft
RATED PRESSURE:	95 psi
REQUIRED RPM:	1760 rpm
REQUIRED POWER:	88.7 hp
STATIC SUCTION:	52 psi
CLOSED VALVE HEAD:	257.57 ft
CLOSED VALVE PRESSURE:	111.5 psi

JOCKEY PUMP
GRUNFOS CR SERIES
MDL: CR1-10
CONDITIONS:

RATED CAPACITY:	7.95 gpm
RATED HEAD:	243 ft
RATED PRESSURE:	150 psi
REQUIRED RPM:	3484 rpm
REQUIRED POWER:	1.00 hp
STATIC SUCTION:	52 psi
CLOSED VALVE HEAD:	287.7 ft
CLOSED VALVE PRESSURE:	124.55 psi

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. PUMP PACKAGE SHALL BE INSTALLED AND ANCHORED ON A SUITABLE FOUNDATION PROVIDED BY OTHERS. THE PUMP PACKAGE IS TO BE INSTALLED ALLOWING FOR A 3/4" TO 1 1/2" GROUT THICKNESS. PUMP PACKAGE SHALL BE LEVELED AND PIPING CONNECTIONS VERIFIED.
3. PERIMETER BEAMS AND CROSS MEMBERS AT LIFTING POINTS SHALL BE SUPPORTED. PERIMETER BEAMS SHALL BE ANCHOR BOLTED TO THE FOUNDATION. (ANCHOR BOLTS BY OTHERS).
4. PACKAGE SUPPORTS ARE DESIGNED TO SUPPORT PES PIPING ONLY. SUITABLE BRACING MUST BE ADDED TO SUPPORT CUSTOMER PIPING.
5. GROUNDING LUGS TO BE PROVIDED AT OPPOSITE CORNERS OF SKID. (1" PL. X 2" SQ. W/ 1/2"-13UNC TAPPED HOLE)
6. SOME ITEMS NOT SHOWN FOR CLARITY. (PLUGS, GAUGES, PRESSURE LINES, ETC.)
7. CHECK VALVE FOR FDC CONNECTION SHIPPED LOOSE FOR INSTALLATION IN FIELD BY CONTRACTOR. MUST BE INSTALLED IN HORIZONTAL POSITION.

REV	BY	CHK	DATE	DESCRIPTION

REVISION HISTORY

GRUNDFOS
JEFFERSON PUMP
PEERLESS PUMP ENGINEERED SYSTEMS

ISO 9001: 2008 Certified
90B Kourtney Road
Brookshire, TX 77423
Ph: 713-857-5601
Fax: 713-895-0250

END USER:	WM 1904 LEESBURG, VA
BUYER:	WALMART
P.O. NO.:	
ITEM NO.:	
LOCATION:	LESSBURG, VIRGINIA

TOLERANCES	PROPRIETARY DATA
UNLESS OTHERWISE NOTED FRACTIONAL +/- 1/4" DECIMAL X.X +/- 0.1 X.XX +/- 0.03 X.XXX +/- 0.005 ANGLE +/- 1°	This drawing is the property of Peerless Engineered Systems Inc., and is not to be reproduced or employed for any manufacturing purposes except upon the explicit instruction of Peerless Engineered Systems Inc., or at the completion of the job it is to be returned to Peerless Engineered Systems Inc, Brookshire, Texas.

DATE:	DRAWN BY:	APPROVED:	SCALE:
09/07/17	JDH	JR	1/4"-1'-0"

PROJECT TITLE:	WM 1904: LEESBURG, VA
DRAWING/DOCUMENT TITLE:	GENERAL ARRANGEMENT DRAWING
SHEET NO:	1 OF 1
PEERLESS REFERENCE:	
FILE NAME:	1904-02_FIRE_PUMP.dwg
DRAWING NO:	1904-02
REV:	0

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CONSULTANTS

Walmart
LEESBURG, VIRGINIA
STORE NO: 1904
JOB NUMBER: 19565 PROTO: C-190-SGL-DL

ISSUE BLOCK

OTB	11/30/17

CHECKED BY:	ERP
DRAWN BY:	REI
PROTO CYCLE.	04/28/17
DOCUMENT DATE:	09/13/17

SKID MOUNTED FIRE PUMP

SHEET:
FP3.2

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