PORSF
11.3.19.1
V7

PEERLESS VERT. FIRE PUMP, 4 STAGE, 1175 GPM AT 231 FT. HD. (100 PSIG) @ 1940 RPM W/ DIESEL ENGINE DRIVE

WILLAMETTE RIVER

STANDPIPE & HYDRANT WITH 2 NEW QUAD. 2½ HOSE HOOK-UPS, (1 HIGH LEVEL, 1 LOW LEVEL) PORTER ROEMAR # 1291 FS FOR EMERGENCY SERVICE BY FIRE BOAT

DOCK

EXISTING PIPING

TEST MANIFOLD W/ 4 - 2½ CONNS.

NEW 8" WATER LINE FROM FIRE PUMP TO 6" UNDERGROUND FIRE WATER LINE

ABOVE GROUND

UNDERGROUND

BULKHEAD

BULKHEAD

BULKHEAD

NEW F.H. (SIZE 4)

EDGE OF BANK

OIL SEPARATOR

WAREHOUSE

BLIND FLANGE

CONCRETE DIKE WALL

FOAMITE TANKS (TO BE REMOVED)

EXISTING UNDER FIRE WATER LINE

DRUM PLANT

NEW F.H. (SIZE 3)

BOILER & PUMP HOUSE

SHOP

SEE FOAM HOUSE PLAN DWG NO D-068-1-502

FOAM HOUSE

REPLACE EXIST. HYD. WITH NEW F.H. (SIZE 4)

NEW EARTHEN SUB-DIKE 12" HIGH

4" BLIND FLANGE AT GRADE LEVEL

WAREHOUSE

LUNCH

OFFICE

NEW F.H. (SIZE 5)

SEE DET. 'A'

BLIND FLANGE (FOR FUTURE EXTENSION)

FUTURE EXTENSION

WATER HOUSE

TRUCK LOADING RACK

2½"

2½"

LUBE OIL STORAGE AREA

PUMP HOUSE

CONCRETE DIKE WALL

NEW FDC - 2 - 2½ FEMALE SWIVEL INLETS W/ PLUGS & CHAIN

NEW F.H. (SIZE 5)

T/C LOADING RACK

JOHNSTON FIRE PUMP 160 GPM / 345 FT. HEAD 20 H.P. 3600 RPM (FOR T/T RACK FIRE PROTECTION)

P A I L U C

S.P. & S. R.R.

PORTLAND FIRE DEPARTMENT STATION

12" CITY WATER MAIN

S T H E L E N S R O A D

PLAN

STORED PRODUCT	TANK Nº	Nº FOAM CHAMBERS (F.C.) OR FOAM MAKERS (F.M.) REQ'D.	GPM REQ'D. EA CHAMBER	TYPE FOAM CHAMBER OR MAKER	PIPE FLG. CONN. PIPE	PIPE FLG. CONN. TANK	SIZE PIPE RISER (IN.)	NOTE	DETAIL
U.L. GASO.	17018	1	283	MCS-33	4"	8"	3	①	'C'
↓	17020	1	↓	↓	↓	↓	↓	↓	↓
REG. GASO.	17027	1	↓	↓	↓	↓	↓	↓	↓
U.L. GASO.	11017	1	181	MCS-17	3"	6"	↓	↓	↓
↓	11019	1	↓	↓	↓	↓	↓	↓	↓
DIESEL	30016	1	478	MCS-55	6"	10"	4	②	'B'
STOVE OIL	10007	1 FC + 2 FM	119	MCS-17	3"	6"	3	↓	'A'
SLOP TANK	2024	1	53	MCS-9	2½"	4"	2	↓	'B'
STOVE OIL	5025	1	102	MCS-17	3"	6"	2	↓	↓
DIESEL	55021	2	515	MCS-55	6"	10"	4	↓	↓
↓	55022	2	↓	↓	↓	↓	↓	↓	↓
↓	55023	2	↓	↓	↓	↓	↓	③	↓
REG. GASO.	55008	2	↓	↓	↓	↓	6"	②	↓
DIESEL	20011	1	385	MCS-33	4"	8"	4"	③	↓
LUBE OIL	2501	1	71	↓	↓	↓	↓	④	↓
↓	2502	1	↓	↓	↓	↓	↓	↓	↓
EMPTY	2503	1	↓	↓	↓	↓	↓	↓	↓
↓	5004	1	126	↓	↓	↓	↓	↓	↓

FOAM CHAMBER, PIPING & FITTING SCHEDULE

*SEE DWG. 068 FIG 502

NOTES:
① EXISTING "L-2" CHAMBER: MODIFY WITH FOAM MAKER, ORIFICE PLT., FLANGES, GASKETS, ETC.
② EXISTING "CS" CHAMBERS: DITTO
③ REPLACE EXISTING "ALF" CHAMBERS WITH NEW FOAM CHAMBERS & COMPONENTS
④ NOT IN FLAMMABLE SERVICE - FUTURE

PIPE SUPPORT SPACING SCHEDULE	
NOM. PIPE SIZE	MAX. SPACING IN FT.
2	12
3	14
4	16
6	19
8	21

LEGEND
- FIRE HYDRANT (F.H.)
- FOAM HYDRANT

AMERICAN-DARLING FIRE HYDRANT TYPE B-50-B

SIZE 5 W/ 1-4½ STEAMER CONN. 2-2½ HOSE CONN'S. 6" FLG'D. BASE INLET CONN.

SIZE 4 W/ 2-2½ HOSE CONN'S. 6" FLG'D. BASE INLET CONN.

AMER. NATIONAL STD. FIRE HOSE THD.

STD. SQ. OPERATING NUT OPEN - C.C.W. CLOSE - C.W.

4½" STEAMER CONN. (1) (SIZE 5 ONLY)

2½" HOSE CONN. (2)

GRADE

FIELD COORD. TO FIRE MAIN

SAME DEPTH AS EXIST. LINE

HYDRANT DRAIN RING

6" FLG'D. CONN.

6" COVER

4'-0" TRENCH DEPTH

CONCRETE BASE

10 CUBIC FEET OF CRUSHED STONE

UNDISTURBED OR COMPACTED EARTH

TYPICAL HYDRANT INSTALLATION
NOT TO SCALE

GENERAL NOTES:
1 - THE FOAM FIRE PROTECTION SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE NATIONAL FIRE CODE STD; N.F.P.A. Nº 11
2 - ALL PIPING SHALL BE SCH. 40, BLACK STEEL, A53, GRADE B, ABOVE GROUND PLAIN, BELOW GROUND COATED AND WRAPPED.
3 - ALL FITTINGS, 2" AND LARGER, SHALL BE STD. WT. CARBON STEEL, BUTT-WELD TYPE.
4 - ALL VALVES SHALL BE OF CONSTRUCTION & DESIGN LISTED AND APPROVED FOR FIRE SERVICE.
5 - THE FOAM PIPING MAIN AND BRANCHES SHALL BE INSTALLED AT A PITCH OF 1/16" PER FOOT TOWARD A LOW POINT, TO ALLOW FOR SYSTEM DRAINAGE.
6 - DRAIN CONNECTIONS SHALL BE PROVIDED AT ALL LOW POINTS, AS NOTED AND DETAILED ON THE DRAWINGS.
7 - CONTRACTOR TO PROVIDE PIPE SUPPORTS.
8 - FITTINGS, PIPE WELDS AND OTHER UNPROTECTED METAL SURFACES, SUBJECT TO UNDERGROUND CORROSION, SHALL RECEIVE TWO (2) COATS OF BITUMASTIC, WITH TOTAL THICKNESS BEING 25 MILS MINIMUM.

REV.	DATE	BY	DESCRIPTION
A	5/8/78	R.O.	REDUCERS ADDED TKS. 55021, 55022, 55023
A	3/17/78	R.O.	GENERAL REVISION
A	2/8/78	R.O.	GENERAL REVISION
1	11/28/77	R.O.	GENERAL REVISION

REVISIONS

STORAGE TANK FIRE PROTECTION SYSTEM
GENERAL ARRANGEMENT
PORTLAND TERMINAL WANTON

GATX TERMINALS CORPORATION
CHICAGO

DRAWN R.O.
CHECKED
APPROVED
CHIEF ENGR.
REF. DWGS. D-068-1-501, D-068-1-502 &
DATE 4/22/77
SCALE 1"=50'-0"
DWG. NO. D-068-1-500-4

MICRO RATIO
PRINTOUT SIZE

PROJECT Nº 068-76-1-2

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