

ELEVATION

NOTES:

- MAY BE INCREASED FOR LARGER SPACING BETWEEN LLS AND LLLS SET POINTS.
- EQUIPMENT, PIPE, FITTINGS, CHAMBER AND VALVES SHALL BE STAINLESS STEEL.
- FOR TANKS WITH FLOATING PAN, LOW AND LOW-LOW ALARM SHELL NOZZLES WILL BE HIGHER. ENSURE TEST DRAIN IS NEVER LOWER THAN AS INDICATED AND TEST VENT IS NEVER HIGHER THAN AS INDICATED.

LOW AND LOW-LOW LEVEL SWITCHES 1

SCALE: 1"=1'-0"



| LEVEL SET-POINT TABLE | | | | | |
|-----------------------|-------|-------|-------|-------|-------|
| TANK SIZE (BBLs) | LLLA | LLA | HLA | HLV | HHLA |
| X,000 | X'-X" | X'-X" | X'-X" | X'-X" | X'-X" |

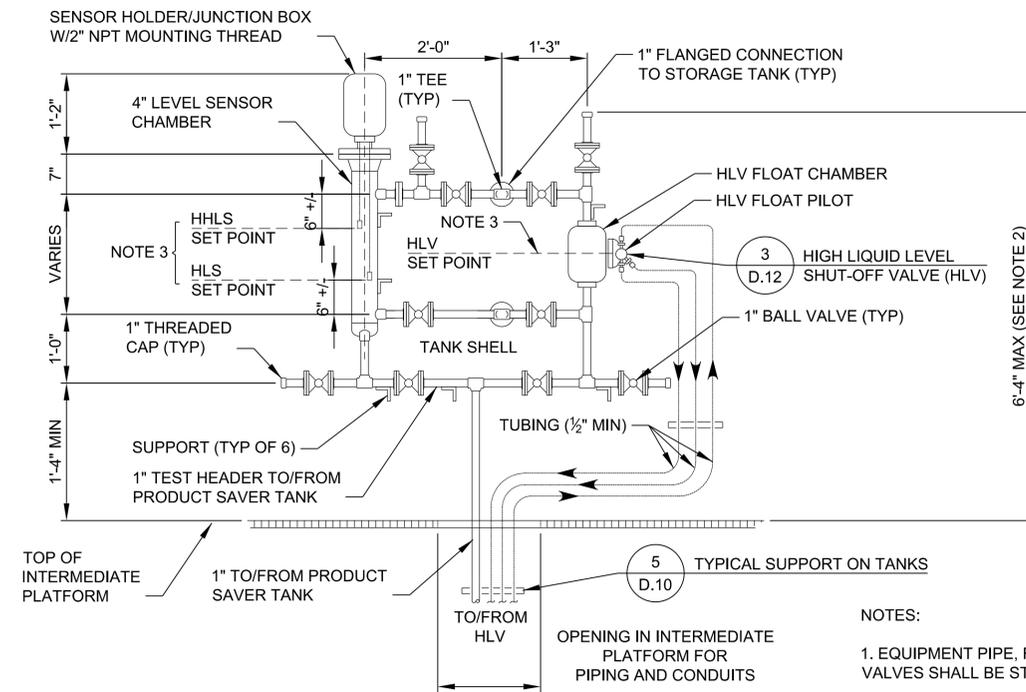
LEVEL SWITCH AND LCV NOTE:

- SET POINT IS DEFINED AS THE DISTANCE ABOVE THE BOTTOM OF THE SHELL.
- SEE SHEET G.03 FOR DESIGNER NOTES; LEVELS SHALL BE SITE ADAPTED TO ALLOW SUFFICIENT OPERATOR RESPONSE TIME.

LEVEL SET-POINT TABLE 4

SCALE: NONE

XX.01 | D.12

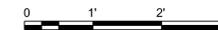


ELEVATION

HIGH AND HIGH-HIGH LEVEL SWITCHES AND HIGH LIQUID LEVEL SHUT-OFF VALVE (HLV) 2

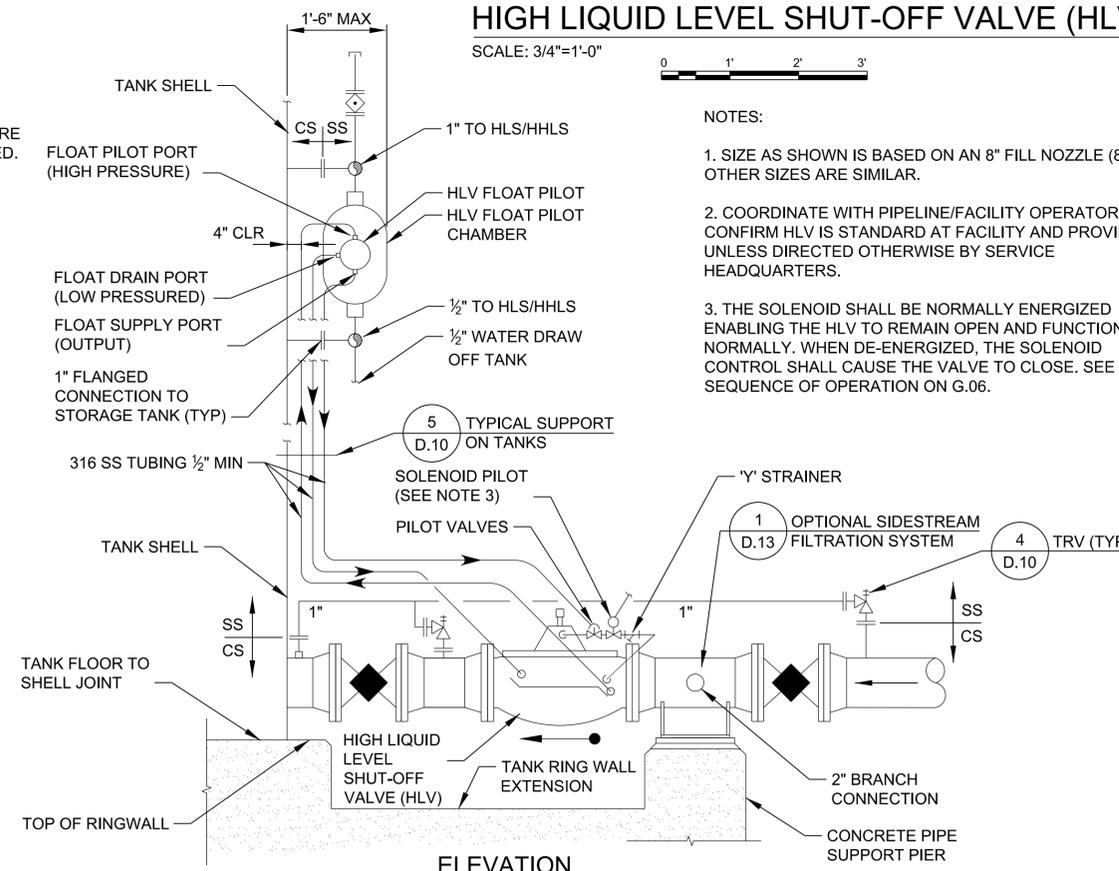
SCALE: 3/4"=1'-0"

XX.02 | D.12



NOTES:

- SIZE AS SHOWN IS BASED ON AN 8" FILL NOZZLE (8" PIPE). OTHER SIZES ARE SIMILAR.
- COORDINATE WITH PIPELINE/FACILITY OPERATOR TO CONFIRM HLV IS STANDARD AT FACILITY AND PROVIDE HLV UNLESS DIRECTED OTHERWISE BY SERVICE HEADQUARTERS.
- THE SOLENOID SHALL BE NORMALLY ENERGIZED ENABLING THE HLV TO REMAIN OPEN AND FUNCTION NORMALLY. WHEN DE-ENERGIZED, THE SOLENOID CONTROL SHALL CAUSE THE VALVE TO CLOSE. SEE SEQUENCE OF OPERATION ON G.06.



ELEVATION

HIGH LIQUID LEVEL SHUT-OFF VALVE (HLV) 3

SCALE: 3/4"=1'-0"

D.12 | D.12



| DATE | DESCRIPTION |
|------|-------------|
| | |
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US ARMY CORPS OF ENGINEERS OMAHA DISTRICT

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|-----------------------------|
| APPROVED |
| FOR COMMANDER NAFAC |
| ACTIVITY |
| SATISFACTORY TO |
| DES MSO DRW MHK CHK WVB |
| SUBMITTED BY: |
| DATE: APRIL 2015 |

NAVAL FACILITIES ENGINEERING COMMAND - ATLANTIC
 DOD STANDARD DESIGN AW78-24-27
FUEL TANKS WITH FIXED ROOFS ABOVEGROUND VERTICAL STEEL
 TYPICAL DETAILS - EXTERNAL APPURTENANCES

| |
|--------------------------|
| SCALE: AS NOTED |
| PROJECT NO.: XXXXX |
| CONSTR. CONTR. NO. XXXXX |
| NAFAC DRAWING NO. XXXXX |
| SHEET 56 OF 57 |

D.12