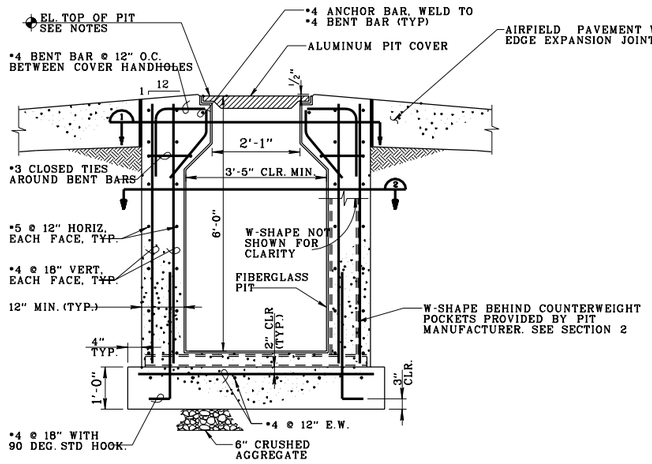
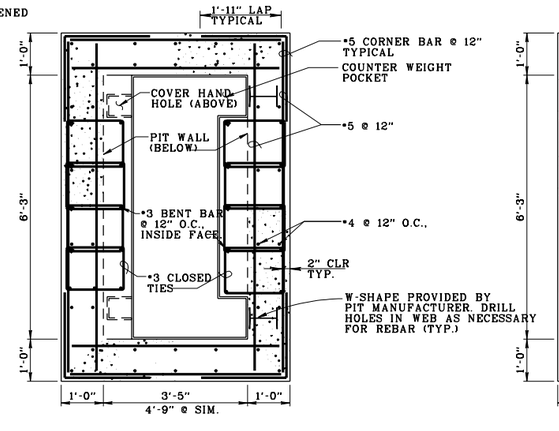


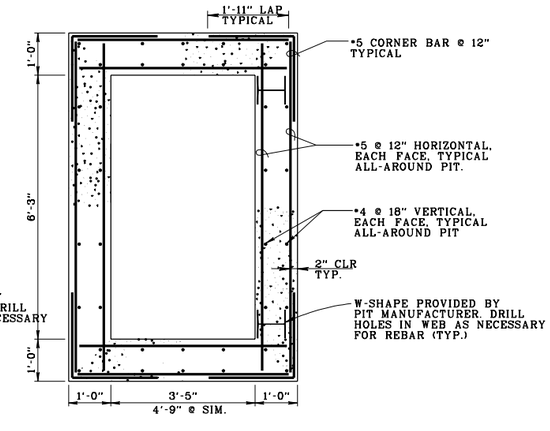
FUEL HYDRANT PIT SECTION

SCALE: 3/4 INCH = 1 FOOT



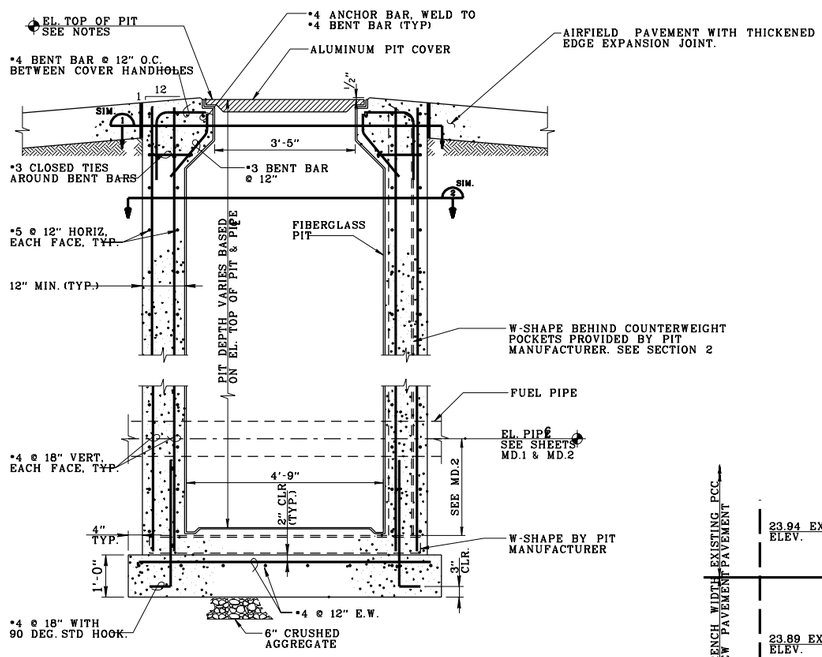
SECTION 1

SCALE: 3/4 INCH = 1 FOOT



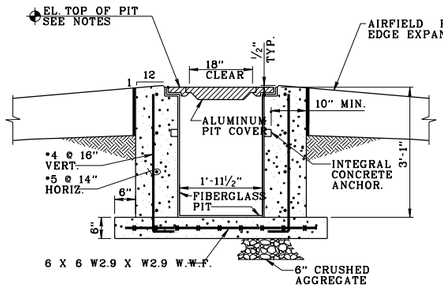
SECTION 2

SCALE: 3/4 INCH = 1 FOOT



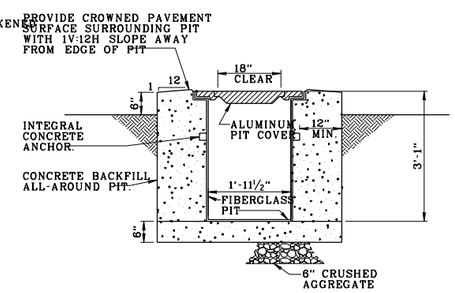
ISOLATION VALVE PIT SECTION

SCALE: 3/4 INCH = 1 FOOT



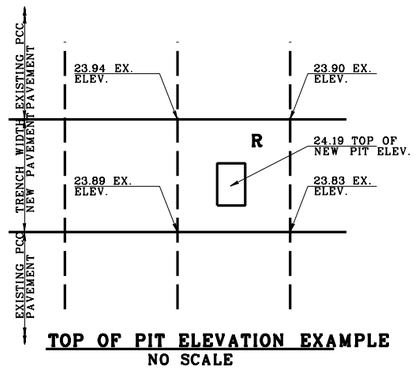
TYPICAL HIGH POINT OR LOW POINT VENT PIT FOR USE IN PAVED AREAS

SCALE: 3/4 INCH = 1 FOOT



TYPICAL HIGH POINT OR LOW POINT VENT PIT FOR USE IN UNPAVED AREAS

SCALE: 3/4 INCH = 1 FOOT



TOP OF PIT ELEVATION EXAMPLE

NO SCALE

NOTES TO THE DESIGNER:

PIT DESIGN

1. PLAN AND DETAILS SHOWN ARE TYPICAL FOR THE APPLICATIONS SHOWN ON SHEET MD.2. REINFORCED CONCRETE FOR THE HYDRANT PITS SHALL BE REDESIGNED IF THE REQUIRED DIMENSIONS EXCEED THOSE SHOWN. DEPTH OF ISOLATION VALVE VAULT IS DEPENDENT ON PIPE PROFILE AND SHALL BE DESIGNED FOR SITE SPECIFIC INSTALLATION CONDITIONS.
2. WHEN REQUIRED, REINFORCED CONCRETE FOR THE PITS SHALL BE DESIGNED FOR SITE SPECIFIC LOADINGS INCLUDING THE EFFECTS OF LATERAL EARTH PRESSURE, HYDROSTATIC PRESURE AND THE EFFECTS OF SURCHARGE FROM AIRCRAFT WHEEL LOADS.

TOP OF PIT ELEVATION

1. DETERMINE AND SET PIT TOP ELEVATION SO IT IS 3" ABOVE THE HIGHEST CORNER OF THE SLAB IN WHICH IT IS BEING INSTALLED. THE SLAB AROUND THE PIT SHALL THEN BE SLOPED AT A 1 ON 12 TRANSITION GRADE FROM THE PIT EDGES TO MATCH EXISTING SLOPES AND GRADES.
2. DETERMINE SPOT ELEVATIONS AT EACH JOINT INTERSECTION.
3. CHOOSE THE HIGHEST SLAB CORNER ELEVATION AND ADD 0.25: (IN THE ADJACENT EXAMPLE, 23.94 + 0.25 = 24.19) THIS ELEVATION REPRESENTS THE NEW TOP OF HYDRANT FUEL PIT ELEVATION.
4. THE ABUTTING CONCRETE AROUND THE HYDRANT FUEL PIT SHALL BE SLOPED AT A 1 ON 12 TRANSITION GRADE FROM THE PIT EDGES.
5. TOP OF PIT ELEVATIONS FOR HYDRANT, HIGH POINT, LOW POINT, AND ISOLATION VALVE PITS SHALL BE DETERMINED USING THIS SAME METHOD.

FUEL PIT NOTES:

1. FUEL PIT DIMENSIONS SHALL BE AS STANDARD WITH THE MANUFACTURER AND NOT LESS THAN THOSE INDICATED, BUT EXCEEDING THE INDICATED DIMENSIONS ONLY BY THE AMOUNT OF THE CLOSEST STANDARD SIZE. ANY CHANGES TO THE REINFORCED CONCRETE REQUIRED TO MATCH THE CONFIGURATION OF THE SUPPLIED PITS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT AND SHALL BE SUBMITTED FOR APPROVAL.

MATERIAL NOTES:

1. REINFORCED CONCRETE:
   A. CONCRETE: SPECIFIED COMPRESSIVE STRENGTH f'c = 4000 PSI AT 28 DAYS FOR ALL WORK.
   B. REINFORCING BARS: SPECIFIED YIELD STRENGTH Fy = 60 KSI (GRADE 60).

COMPUTER AIDED DESIGN & DRAFTING

$$ - THINK VALUE ENGINEERING - $$

REVISIONS

SYMBOL	DESCRIPTIONS	DATE	APPROVED

ROBERT AND COMPANY 96 POPLAR ST., N.W. ATLANTA, GA 30335	US ARMY ENGINEER DISTRICT CORPS OF ENGINEERS OMAHA, NE	AIR FORCE C.E. SUPPORT AGENCY 139 BARNES DRIVE, SUITE #1 TYNDALL AFB, FL 32403-5319

DESIGNED BY: G.M.J.
DRAWN BY: G.M.J.
CHECKED BY: B.N.H.
REVIEWED BY: B.N.H.
SUBMITTED BY: CHIEF, STRUC SECTION

AIR FORCE STANDARDS
PRESSURIZED HYDRANT FUELING SYSTEM
TYPE III

FUEL PIT PLANS & DETAILS

PLOT SCALE RATIO: 4:3
DESIGN FILE: SD18S902.DGN
DATE: REV. #1 NOV. 1998
SPEC. NO.: 78-24-28-88
DRAWING CODE: AW 78-24-28
SHEET REFERENCE NUMBER: S9.2

SD18S902.DGN 11/18/2002 10:04:17 AM