GENERAL PLUMBING NOTES:

1. ALL WORK SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE REGULATIONS.
2. ALL SANITARY BUILDINGS DRAINAGE AND VENT SYSTEM ABOVE GRADE SHALL BE PVC.
3. ALL COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE CPVC SCHEDULE 40.
4. ALL BUILDING DRAINAGE SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART.
5. ALL BUILDING DRAINAGE SHALL HAVE A MINIMUM SLOPE OF 2% FOR PIPE SIZES UP TO AND INCLUDING 2 1/2".
6. ALL BUILDING DRAINAGE SHALL HAVE A MINIMUM SLOPE OF 1% FOR PIPE SIZES 3" TO 6".
7. DRAINAGE AND WATER DISTRIBUTION PIPING ARE SHOWN DIAGRAMMATICALLY AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND RELATED EQUIPMENT.
9. ALL PLUMBING FIXTURES TO BE EQUIPPED WITH SUPPLY STOPS.
10. PIPE HANGER INSULATION SHIELDS AND/OR SADDLES SHALL BE PROPERLY CENTERED INSIDE THE PIPE HANGER TO ENSURE THAT THE PIPING INSULATION IS NOT DAMAGED.
11. METER AND BACKFLOW ASSEMBLY ARE BY THE SITE SUBCONTRACTOR AND SHALL BE LOCATED OUTSIDE WITHIN 25 FT OF THE BUILDING.
12. EXTERIOR CLEANOUT SHALL MEET THE HILLSBOROUGH COUNTY TECHNICAL STANDARDS.

PLUMBING LEGEND

SAN	SANITARY DRAINAGE (SAN)
SD	STORM DRAIN
WD	WASTE DRAINAGE (WD)
CD	CONDENSATE DRAIN (CD)
	VENT
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
CO	FLOOR CLEANOUT
HD	HUB DRAIN
WH	WALL HYDRANT
	GATE VALVE
VTR	VENT THRU ROOF

ABBREVIATIONS

CI	CAST IRON
CW	COLD WATER
CPVC	CHLORINATED POLYVINYL CHLORIDE
DWG	DRAWING
FU	FIXTURE UNITS
FGUA	FLORIDA GOVERNMENTAL UTILITY AUTHORIT
GPM	GALLONS PER MINUTE
HW	HOT WATER
IE	INVERT ELEVATION
MIN	MINIMUM
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE PLASTIC
SCH	SCHEDULE
TYP	TYPICAL

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	STORAGE CAPACITY	ELEMENTS KW	VOLTS	PHASE	NOTES
EWH	MECHANICAL ROOM 104	10 GAL	4.5	208	1	SHELF MOUNTED. SET AT 140°F

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	TYPE	SIZE	ACCESSORIES	REMARKS	MIN. PLUMBING CONNECTIONS				
						SAN.	WASTE	VENT	CW	HW
BV	BACKWATER VALVE	CAST IRON	2"	LACQUERED CAST IRON BACKWATER VALVE WITH NO HUB INLET AND OUTLET, GASKETED BOLT COVER AND AUTOMATIC PVC FLAPPER TYPE BACKWATER VALVE	SET IN 16"x20"x20"DEEP EPOXY COATED 10 GAUGE FABRICATED STEEL HOUSING AND ACCESS COVER WITH GASKETED, NON-SKID, REINFORCED STEEL COVER	---	2"	---	---	---
HD	HUB DRAIN	CONDENSATE WASTE	3" x 2"	304 STAINLESS STEEL SCHEDULE 10 HUB DRAIN WITH STRAINER BASKET	RECEIVES INDIRECT 3/4" CONDENSATE WASTE	---	2"	---	---	---
WC	WATER CLOSET	WALL MOUNTED	1 1/2" TOP SPUD	FLUSH VALVE	N/A	4"	---	2"	1"	---
LAV	LAVATORY	WALL HUNG	19" X 17"	GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES	MOUNT TO COMPLY WITH ADA REGULATIONS.	---	1 1/2"	1 1/2"	1/2"	1/2"
DF	DRINKING FOUNTAIN	WALL MOUNTED TWO STATION		TOUCH CONTROLS FRONT AND BOTH SIDES	MOUNT TO COMPLY WITH ADA REGULATIONS.	---	1 1/4"	1 1/4"	1/2"	---
MS	MOP SINK	PRECAST TERRAZZO	24" X 24" X 12"	WALL MOUNTED, 8" CENTERS SERVICE FAUCET, 2.2 GPM 3/4" MALE THREAD HOUSE OUTLET	3" STAINLESS STEEL STRAINER	---	3"	1 1/2"	1/2"	1/2"
KS	KITCHEN SINK	DOUBLE BOWL	33" X 22"	TOP MOUNTED SINK FAUCETS 2.2 GPM	N/A	---	1 1/2"	1 1/2"	1/2"	1/2"
WH	WALL HYDRANT	EXTERIOR	N/A	BRASS AUTOMATIC DRAINING, FREEZELESS WITH ANTI-SIPHON VACUUM BREAKER	WALL MOUNTED 24" ABOVE FINISH FLOOR	---	---	---	3/4"	---
TMV	THERMOSTATIC MIXING VALVE	WALL BRACKET	3/8"	BRONZE MIXING VALVE, THERMOSTATIC TYPE, PRESSURE BALANCED, ASSE 1070, WITH SEDIMENT STRAINERS ON THE INLETS	WALL MOUNTED BENEATH FIXTURE	---	---	---	3/8"	3/8"

NOTE:
FOR INDIVIDUAL PLUMBING DESCRIPTION SEE PLUMBING SPECIFICATION SECTION 220000.

AECOM TECHNICAL SERVICES, INC.
7650 W. COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION NO 8115

Mark | Description | Date | Appr.

Date: 15 JUNE 17
Designed By:
Drawn By:
Reviewed By:
Approved By:
Drawing CADD name:
CADD Leader: AECOM

IF THIS DRAWING IS LESS THAN 34" x 22" IT IS A REDUCED SIZE DRAWING.

MACDILL AIR FORCE BASE, FLORIDA
6TH CIVIL ENGINEER SQUADRON

FINAL SUBMITTAL

ADD TO AND ALTER
AIRFIELD LIGHTING VAULT
PROJECT NO. NVZR 07-0047
PLUMBING SCHEDULES AND ABBREVIATIONS

Facility I.D. 58 / 142

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P-001
Sheet 52 of 206

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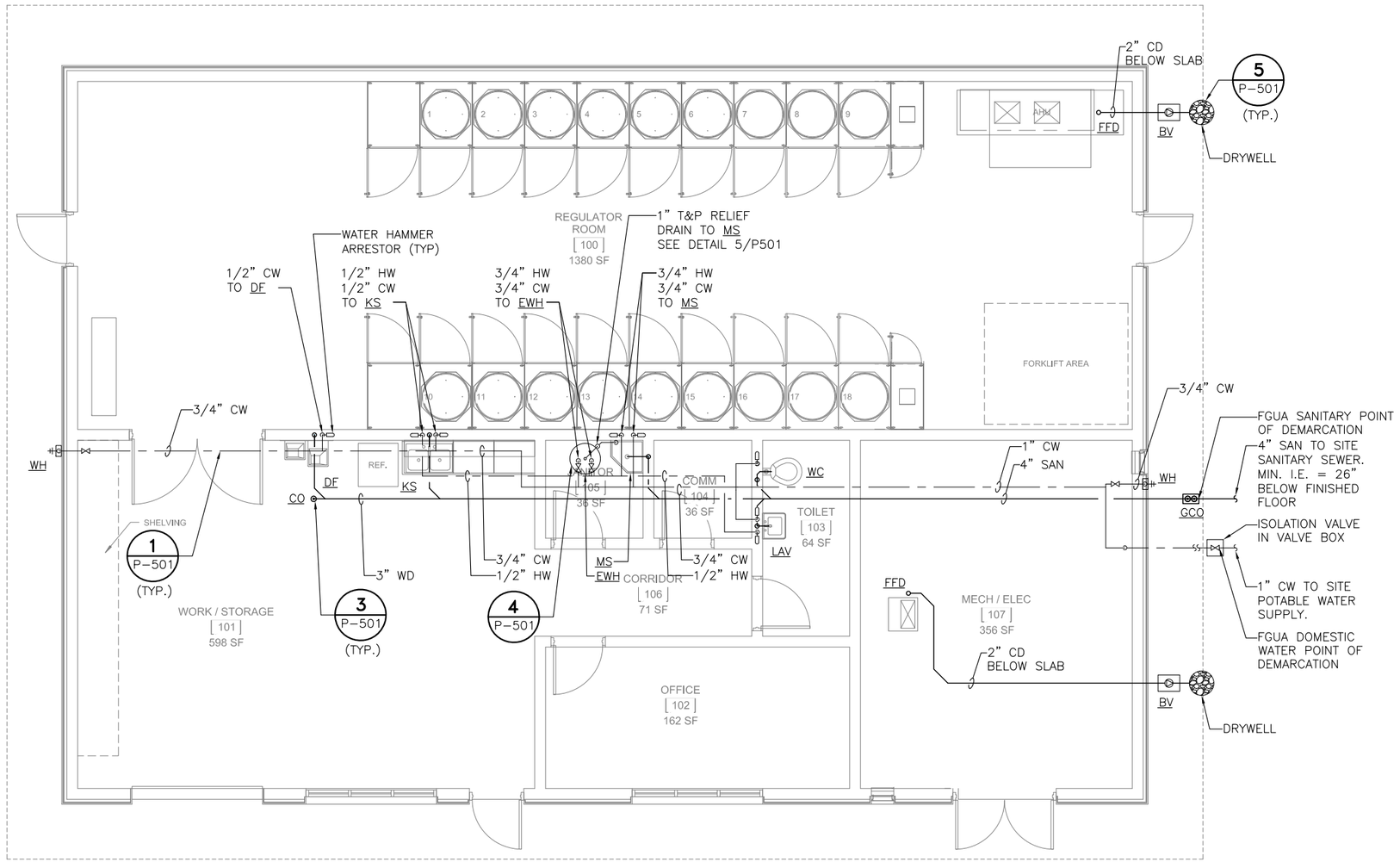

PLUMBING PLAN
SCALE: 1/4"= 1'-0"

GRAPHIC SCALE
SCALE: 1/4"= 1'-0"
0 4' 8'

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6TH CIVIL ENGINEER SQUADRON

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ADD TO AND ALTER
AIRFIELD LIGHTING VAULT
PROJECT NO. NVZR 07-0047
PLUMBING PLAN

Facility I.D. 58 / 142

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P-101
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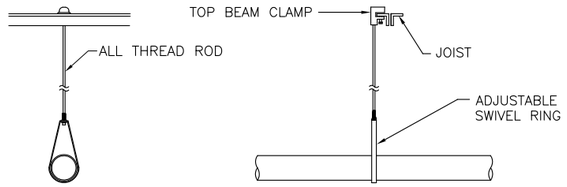

PIPE HANGER DETAIL (1)
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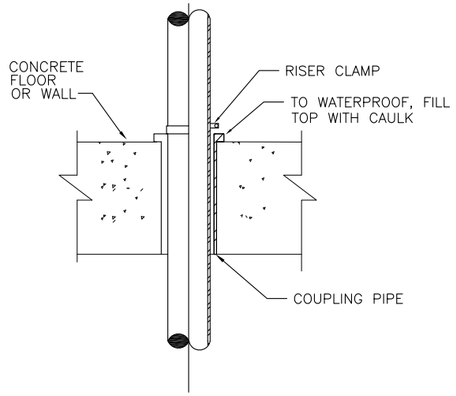

TYPICAL FIRESTOP PENETRATION DETAIL (2)
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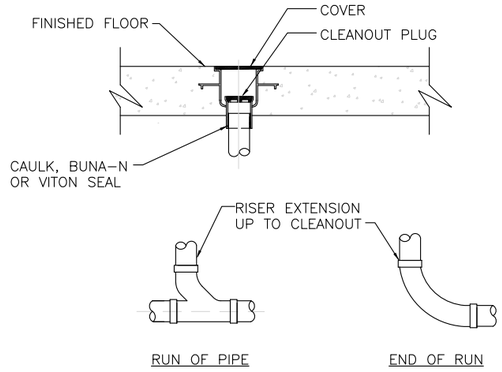

INTERIOR CLEANOUT DETAIL (3)
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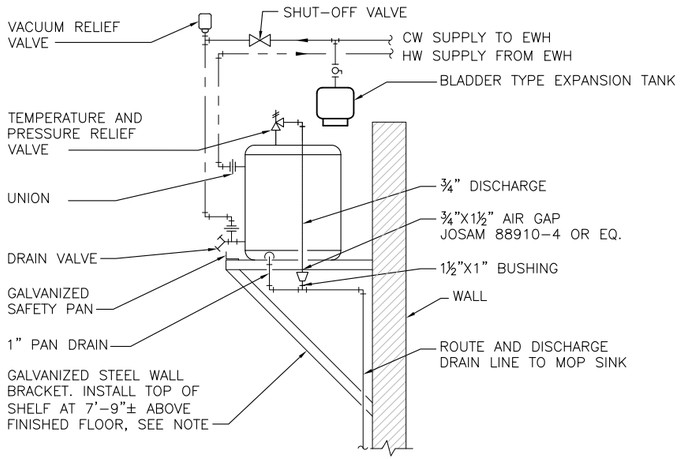

NOTE: CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE FABRICATION AND INSTALLATION OF WATER HEATER SUPPORT BRACKET. APPROXIMATE WEIGHT 135 LBS. REFER TO SPECIFICATION SECTION 22 40 00, 3.6.

WATER HEATER DETAIL (4)
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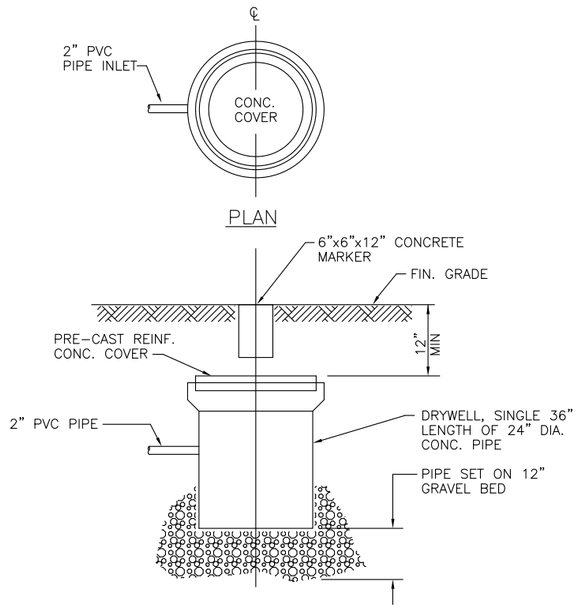

TYPICAL DRYWELL DETAIL (5)
SCALE: N.T.S P–101

AECOM TECHNICAL SERVICES, INC.
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CADD Leader: AECOM

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6TH CIVIL ENGINEER SQUADRON

FINAL SUBMITTAL

ADD TO AND ALTER AIRFIELD LIGHTING VAULT
PROJECT NO. NVZR 07-0047
PLUMBING DETAILS

Facility I.D. 58 / 142

Sheet No. P-501
Sheet 54 of 206

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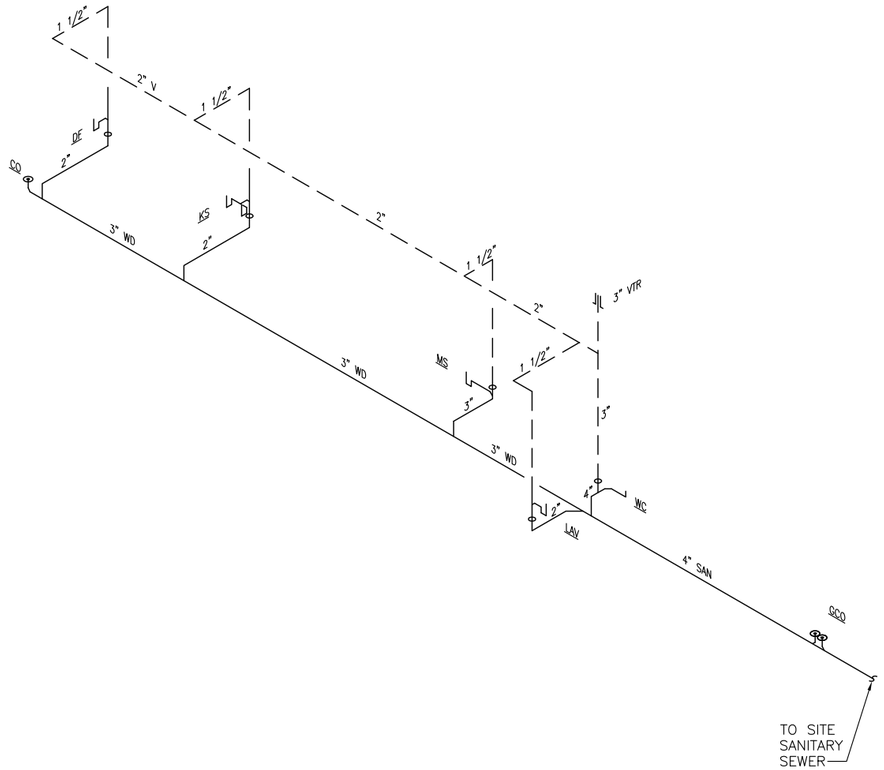

SANITARY ISOMETRIC
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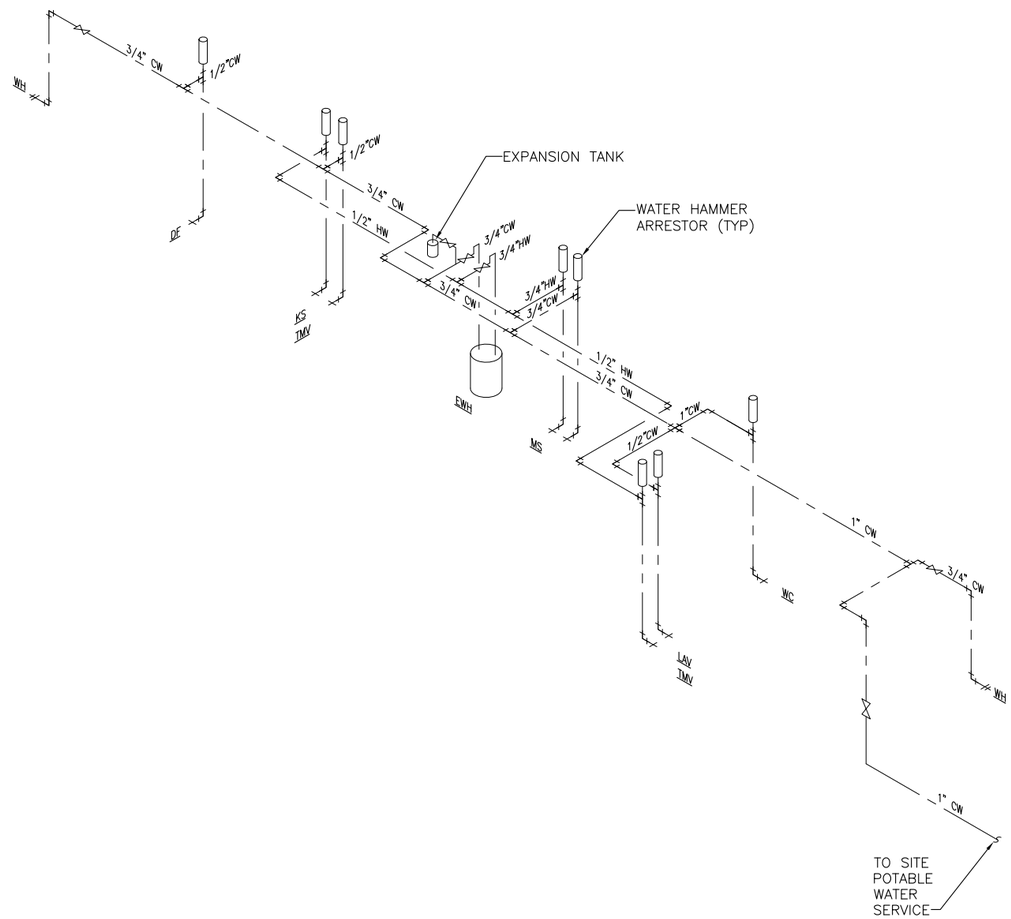

WATER ISOMETRIC
SCALE: N.T.S.

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6TH CIVIL ENGINEER SQUADRON

FINAL SUBMITTAL

ADD TO AND ALTER AIRFIELD LIGHTING VAULT PROJECT NO. NVZR 07-0047
PLUMBING ISOMETRICS

Facility I.D. 58 / 142

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Sheet 55 of 206

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CERTIFICATE OF AUTHORIZATION NO 8115

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