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**CLIENT:**

- APEC**  
**AUTOMATED  
PETROLEUM &  
ENERGY  
COMPANY**

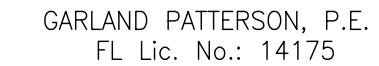
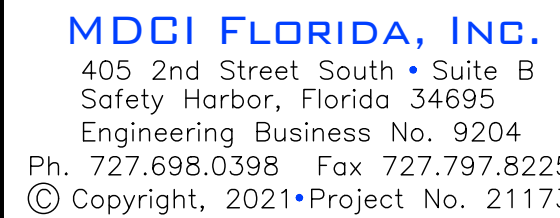
**DESIGN TEAM TITLE:**

**engineering • environmental • construction**

1055 KATHLEEN ROAD, LAKELAND, FLORIDA 33801  
Phone: (863) 646-9130

2151 W. HILLSBORO BOULEVARD, SUITE 401  
DEERFIELD BEACH, FLORIDA 33442  
Phone: (954) 427-3076  
FL. CA. #4857

NO.	DATE	REVISION DESCRIPTION
-----	------	----------------------



**SITE DESIGNATIONS:**

**2902 SW PORT ST LUCIE  
BLVD, PORT ST LUCIE, FL 34952  
(SAINT LUCIE COUNTY)**

<b>SCALE:</b>	AS NOTED	<b>MDM JOB #</b>	21126
<b>DATE:</b>	10-29-2021		
<b>DESIGNED BY:</b>			
<b>DRAWN BY:</b>	MJO	<b>FILE NAME:</b>	
<b>CHECKED BY:</b>			

**DRAWING TITLE:**

## PLUMBING DEMOLITION FLOOR PLAN

**SHEET NO:**

## P1.1

GENERAL NOTES

1. INSTALLATION OF ALL PLUMBING FIXTURES, PIPING, COMPONENTS AND PERIPHERALS SHALL COMPLY WITH THE FLORIDA BUILDING CODE – PLUMBING AND ALL OTHER APPLICABLE CODES, LAWS, STANDARDS AND ORDINANCES AND AUTHORITIES HAVING JURISDICTION.

2. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

3. ALL CONTRACTORS SHALL EXAMINE THE SITE CONDITIONS AND REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING A PROPOSAL.

4. CONTRACTOR SHALL VERIFY ALL SLOPES, INVERTS, SIZES AND LOCATION OF ALL EXISTING UTILITIES IN FIELD PRIOR TO STARTING WORK.

5. PLUMBING CONTRACTOR SHALL COORDINATE HIS / HER WORK WITH OTHER CONTRACTORS IN ESTABLISHING PIPE RUNS AND SPACE CONDITIONS.

6. ALL PIPING TO BE CONCEALED IN HUNG CEILINGS, CHASES AND FURRED SPACES OR BELOW COUNTERS.

7. THE DRAWINGS AS PREPARED ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ALLOWED BY CONSTRUCTION OF THE PROJECT AND THE WORK OF OTHER TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

8. REFER TO EQUIPMENT SCHEDULE AND EQUIPMENT SPECIFICATIONS FOR EXACT LOCATIONS OF PLUMBING CONNECTIONS TO EQUIPMENT.

9. ALL WALL-HUNG FIXTURES SHALL BE PROVIDED WITH WALL CARRIERS AND BE CAPABLE OF SUPPORTING A 250 LB. VERTICAL LOAD.

10. PROVIDE THERMOSTATIC MIXING VALVES AT ALL LAVATORIES AND HAND SINKS, SET AT NO MORE THAN 110 F.

11. WASTE AND VENT PIPING SHALL BE SCHEDULE 40 P.V.C. WITH DRAINAGE PATTERN FITTINGS.

12. SLOPE WASTE LINES 3" AND OVER, 1/8" PER FOOT. LINES SMALLER THAN 3" SHALL BE SLOPED AT 1/4" PER FOOT.

13. CLEANOUTS SHALL BE PROVIDED PER PLAN AND/OR AS REQUIRED TO PROVIDE A COMPLETE SERVICEABLE SYSTEM. CLEANOUTS SHALL BE SAME SIZE AS PIPE. FLOOR CLEANOUTS SHALL BE EQUAL TO ZURN Z-1400-KC WITH BRONZE TOP. WALL CLEANOUTS SHALL BE EQUAL TO ZURN Z-1411-KC WITH STAINLESS STEEL COVER.

14. ALL WATER PIPING SHALL BE TYPE "L" COPPER WITH SOLDERED JOINTS. WATER PIPING BELOW GRADE/SLAB SHALL BE TYPE "K" COPPER IN VINYL SLEEVE. 1/4" CPVC PIPING WITH SOLVENT JOINED FITTINGS MAY BE USED IF ACCEPTED BY JURISDICTION AND IF NO PLENUMS EXIST.

15. PROVIDE WATER HAMMER ARRESTORS EQUAL TO JAY R. SMITH AT EACH FIXTURE GROUP IN ACCORDANCE WITH THE FBC – PLUMBING.

16. INSULATE ALL DOMESTIC HOT WATER PIPING WITH 1" WALL "ARMAFLEX", OR EQUAL.

17. PROVIDE ISOLATION VALVES AT ALL FIXTURES. VALVES SHALL BE CHROME FINISH EQUAL TO BRASSCRAFT.

18. ALL KITCHEN, PREP AREA AND SALES AREA EQUIPMENT WILL BE FURNISHED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER. EQUIPMENT WILL BE FURNISHED WITH TRIM, FAUCETS, ESCUTCHEONS, ETC. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN TRAPS AND MAKE ALL FINAL CONNECTIONS (SEE EQUIPMENT SCHEDULE).

19. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE HANGERS, AND SUPPORTS IN ACCORDANCE WITH THE LOCAL APPLICABLE CODES.

20. PIPE HANGERS SHALL BE SPLIT RING TYPE, GALVANIZED, WITH THREADED ROD SUPPORT FROM STRUCTURE ABOVE EQUAL TO GRINNELL. DISTANCE BETWEEN SUPPORTS SHALL BE PER CODE.

21. PLUMBING CONTRACTOR TO PROVIDE BACKFLOW PREVENTERS AT ALL COFFEE MAKERS, BAGEL OVEN, DIPPING WELLS, ICE MAKER AND ALL OTHER EQUIPMENT AS REQUIRED BY CODE.

23. PLUMBING CONTRACTOR TO PROVIDE TRAP PRIMERS OR TRAP SEAL ON ALL FLOOR DRAINS AS PER APPLICABLE CODE.

24. ANY CUTTING OR PATCHING NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

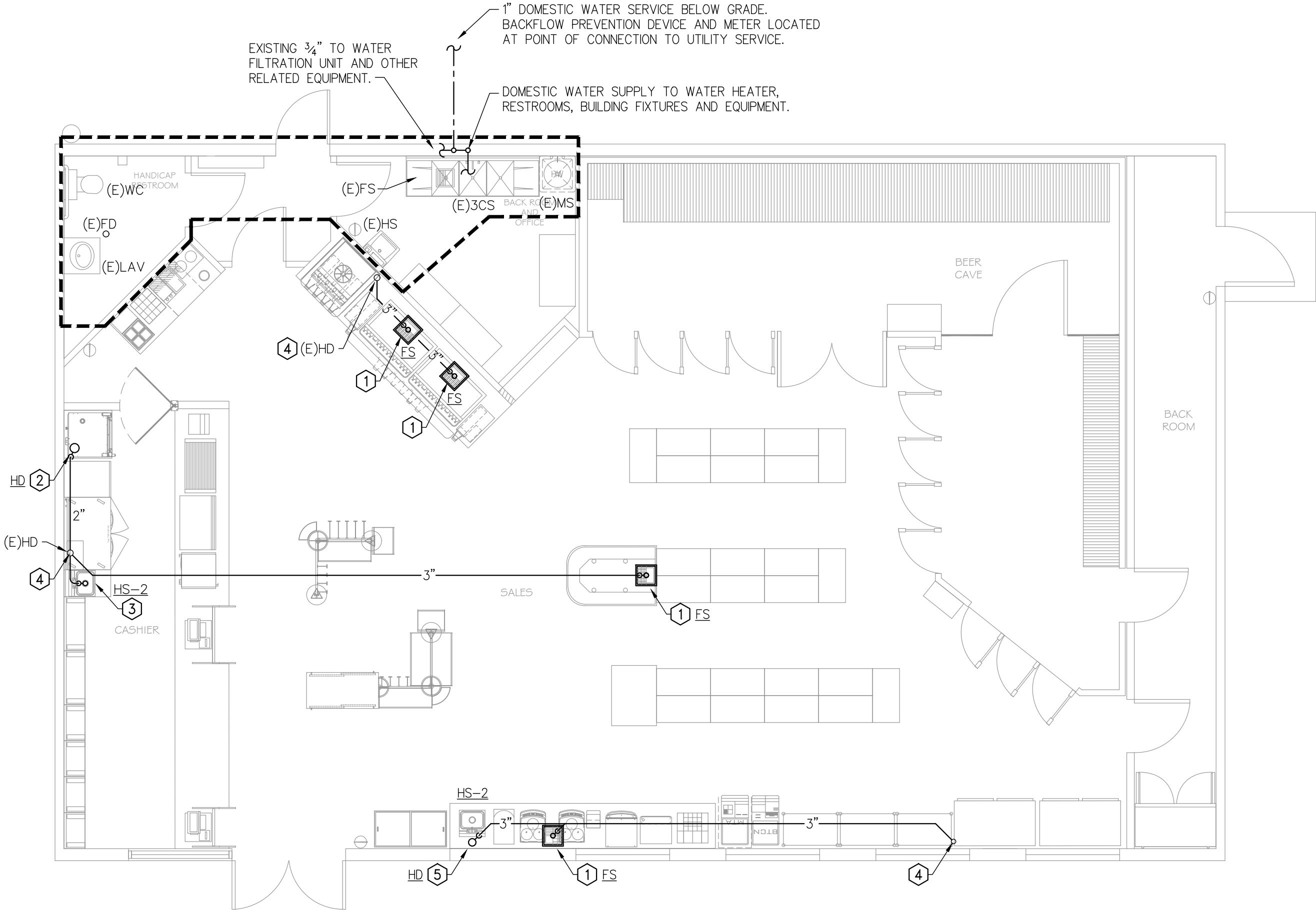
25. ALTERNATE FIXTURE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY ARE EQUIVALENT AND MEET THE KIND AND QUALITY OF THE FIXTURES SPECIFIED.

26. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.

27. TESTING OF THE PLUMBING SYSTEMS SHALL BE PERFORMED BY THE PLUMBING SUBCONTRACTOR AND WITNESSED BY THE BUILDING DEPARTMENT INSPECTOR. POTABLE HOT AND COLD WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT 125 PSIG FOR 24 HOURS. SOIL, WASTE AND VENT PIPING SHALL BE FILLED WITH WATER TO THE TOP OF THE SYSTEM FOR A PERIOD OF 24 HOURS.

28. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT / OWNER.

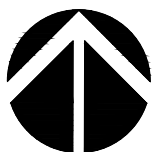
29. DEVIATION FROM MATERIALS, METHODS, OR PROCEDURES SET FORTH HEREIN MUST BE APPROVED, IN WRITING, BY THE ENGINEER OF RECORD PRIOR TO SUBMISSION OF BID, ORDER, FABRICATION OR INSTALLATION. ANY AND ALL QUESTIONS AS TO THE INTENT OF OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF A PROPOSAL. LACK OF KNOWLEDGE OR UNDERSTANDING OF THE PLANS SHALL NOT JUSTIFY ANY CLAIMS OR ADDITIONAL COMPENSATION.



1

PLUMBING DRAINAGE FLOOR PLAN

SCALE: 3/16" = 1'-0"



NOTE:  
LOCATIONS SHOWN FOR WASTE AND SUPPLY PIPING ARE SCHEMATIC IN NATURE. COORDINATE EXACT CONNECTIONS REQUIRED WITH NEW EQUIPMENT SPECIFICATIONS CRITERIA.

NOTE:  
EXISTING PLUMBING INFORMATION SHOWN OR INDICATED ON THESE PLANS IS A COMPILATION OF LIMITED VISUAL FIELD VERIFICATION. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION AND FINAL COORDINATION WITH EXISTING CONDITIONS.

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PLAN NOTES

1. PROVIDE AND INSTALL NEW FLOOR SINK AS INDICATED. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING INVERT ELEVATIONS OF ALL NEW DRAINAGE PIPING PRIOR TO COMMENCEMENT OF WORK.

2. PROVIDE AND INSTALL NEW HUB DRAIN AS INDICATED. INDIRECT WASTE RECEPTOR FOR OVEN. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING INVERT ELEVATIONS OF ALL NEW DRAINAGE PIPING PRIOR TO COMMENCEMENT OF WORK.

3. PROVIDE AND INSTALL NEW HAND SINK AS INDICATED. CONNECT TO EXISTING SANITARY AND VENT PIPING AT FORMER HAND SINK AND HUB DRAIN. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING INVERT ELEVATIONS OF ALL NEW DRAINAGE PIPING PRIOR TO COMMENCEMENT OF WORK.

4. PROPOSED POINT OF CONNECTION TO EXISTING. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING INVERT ELEVATIONS OF ALL NEW DRAINAGE PIPING PRIOR TO COMMENCEMENT OF WORK.

5. PROVIDE AND INSTALL NEW HUB DRAIN AS INDICATED. INDIRECT WASTE RECEPTOR FOR HS-2. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING INVERT ELEVATIONS OF ALL NEW DRAINAGE PIPING PRIOR TO COMMENCEMENT OF WORK.

LEGEND

SANITARY – EXISTING

SANITARY – NEW

VENT – EXISTING

VENT – NEW

COLD WATER – EXISTING

SAN

CW

C.O.

FCO

FS

WC

LAV

UR

HS

FD

HB

HD

SANITARY

COLD WATER

CLEANOUT

FLOOR CLEAN OUT

FLOOR SINK

WATER CLOSET

LAVATORY

URINAL

HAND SINK

FLOOR DRAIN

HOSE BIBB

HUB DRAIN

PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE	D	V	CW	HW	DESCRIPTIONS
FD	FLOOR DRAIN	3"	2"	–	–	ZURN MODEL Z-415-P WITH 6" DIAMETER TYPE 'B' NICKEL BRONZE STRAINER. RM TO BE FLUSH WITH FINISHED FLOOR AND LEVEL. PROVIDE TRAP PRIMER CONNECTION.
FS	FLOOR SINK	3"	2"	–	–	WADE #9143 CAST IRON FLOOR SINK W/ACID RESISTING PORCELAIN ENAMELED INTERIOR. SEDIMENT BUCKET-27", NIKALOY 1/2 GRATE-15" PROVIDE WITH TRAP PRIMER CONNECTION. EQUAL MANUF: JOSAM, ZURN, SMITH
FCO	FLOOR CLEANOUT	SEE PLANS				WADE #W-6000Z-X CAST IRON W/ADJUSTABLE HOUSING; ROUND HEAVY CAST IRON, VANDAL PROOF TOP WITH STAINLESS STEEL SCREWS. EQUAL MANUF: JOSAM, ZURN, SMITH
TP	TRAP PRIMER	–	–	1/2"	–	PRECISION PLUMBING PRODUCTS MODEL P-2 WITH DISTRIBUTION UNIT.
HS-1 #83	HAND SINK (BUILT-IN)	1 1/2"	2"	1/2"	1/2"	STAINLESS STEEL HAND SINKS SUPPLIED BY EQUIPMENT SUPPLIER. INSTALL SINK AND PLUMB SANITARY WASTE, VENT AND HOT AND COLD WATER AS INDICATED. PROVIDE BRASSCRAFT STOPS AND SUPPLIES.
HS-2 #87	HAND SINK	1 1/2"	2"	1/2"	1/2"	STAINLESS STEEL HAND SINK. KROWN 17"x15"x6" DEEP WITH GOOSE NECK FAUCET. PROVIDE WITH BRASSCRAFT STOPS AND SUPPLIES.

CLIENT:

APEC

AUTOMATED PETROLEUM & ENERGY COMPANY

DESIGN TEAM TITLE:

MDM

SERVICES, INC.

engineering • environmental • construction

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Phone: (954) 427-3076  
FL. CA. #4857

NO.

DATE

REVISION DESCRIPTION

MDCI

MDCI FLORIDA, INC.

405 2nd Street South Suite B  
Safety Harbor, Florida 34695  
Engineering Business No. 9204  
Ph. 727.698.0398 Fax 727.797.8225  
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Garland Patterson  
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PE 14175  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

GARLAND PATTERSON, P.E.  
FL Lic. No.: 14175

APEC  
GAS STATION

SITE DESIGNATIONS:

2902 SW PORT ST LUCIE BLVD, PORT ST LUCIE, FL (SAINT LUCIE COUNTY)

SCALE: AS NOTED

MDM JOB # 21126

DATE: 10-29-2021

DESIGNED BY:

DRAWN BY: MJO

FILE NAME:

CHECKED BY:

DRAWING TITLE:

PLUMBING DRAINAGE FLOOR PLAN

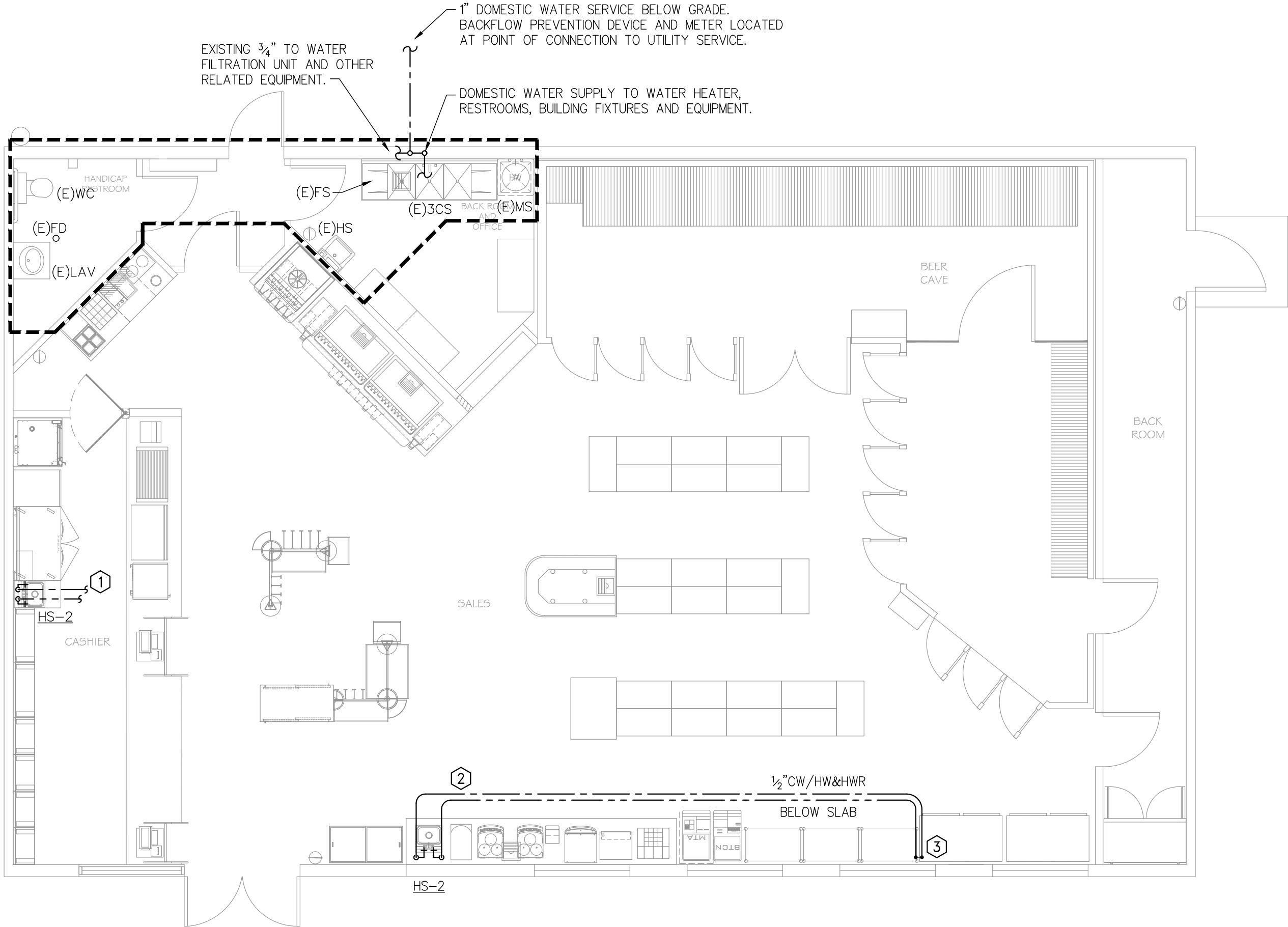
SHEET NO:

P1.2

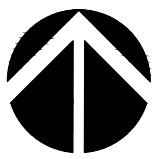
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28. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT / OWNER.
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1 PLUMBING SUPPLY FLOOR PLAN  
SCALE: 3/16" = 1'-0"



NOTE:  
LOCATIONS SHOWN FOR WASTE AND SUPPLY PIPING ARE SCHEMATIC IN NATURE. COORDINATE EXACT CONNECTIONS REQUIRED WITH NEW EQUIPMENT SPECIFICATIONS CRITERIA.

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PLAN NOTES

1. EXTEND AND CONNECT NEW 1/2" COLD AND HOT WATER SUPPLY PIPING TO FORMER HAND SINK SUPPLIES LOCATED IN THIS AREA. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH DEMOLITION ACTIVITIES.
2. EXTEND AND CONNECT NEW 1/2" COLD AND HOT WATER SUPPLY PIPING TO EXISTING SUPPLIES LOCATED AT FORMER HAND SINK. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH DEMOLITION ACTIVITIES.
3. PROPOSED POINT OF CONNECTION TO EXISTING. FIELD VERIFY AND COORDINATE PROPOSED AND EXISTING LOCATIONS OF ALL SUPPLY PIPING PRIOR TO COMMENCEMENT OF WORK.

LEGEND

SANITARY - EXISTING	-----
SANITARY - NEW	-----
COLD WATER	-----
HOT WATER	-----
HOT WATER RETURN	-----
SAN	SANITARY
CW	COLD WATER
C.O.	CLEANOUT
FCO	FLOOR CLEAN OUT
FS	FLOOR SINK
WC	WATER CLOSET
LAV	LAVATORY
UR	URINAL
HS	HAND SINK
FD	FLOOR DRAIN
HB	HOSE BIBB
HD	HUB DRAIN

PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE	D	V	CW	HW	DESCRIPTIONS
FD	FLOOR DRAIN	3"	2"	-	-	ZURN MODEL Z-415-P WITH 6" DIAMETER TYPE 'B' NICKEL BRONZE STRAINER. RM TO BE FLUSH WITH FINISHED FLOOR AND LEVEL. PROVIDE TRAP PRIMER CONNECTION.
FS	FLOOR SINK	3"	2"	-	-	WADE #9143 CAST IRON FLOOR SINK W/ACID RESISTING PORCELAIN ENAMELED INTERIOR, SEDIMENT BUCKET--27", NIKALOY 1/2 GRATE--15" PROVIDE WITH TRAP PRIMER CONNECTION. EQUAL MANUF: JOSAM, ZURN, SMITH
FCO	FLOOR CLEANOUT	SEE PLANS				WADE #W-6000Z-X CAST IRON W/ADJUSTABLE HOUSING; ROUND HEAVY CAST IRON, VANDAL PROOF TOP WITH STAINLESS STEEL SCREWS. EQUAL MANUF: JOSAM, ZURN, SMITH
TP	TRAP PRIMER	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS MODEL P-2 WITH DISTRIBUTION UNIT.
HS-1 #83	HAND SINK (BUILT-IN)	1 1/2"	2"	1/2"	1/2"	STAINLESS STEEL HAND SINKS SUPPLIED BY EQUIPMENT SUPPLIER. INSTALL SINK AND PLUMB SANITARY WASTE, VENT AND HOT AND COLD WATER AS INDICATED. PROVIDE BRASSCRAFT STOPS AND SUPPLIES.
HS-2 #87	HAND SINK	1 1/2"	2"	1/2"	1/2"	STAINLESS STEEL HAND SINK. KROWN 17"x15"x6" DEEP WITH GOOSE NECK FAUCET. PROVIDE WITH BRASSCRAFT STOPS AND SUPPLIES.

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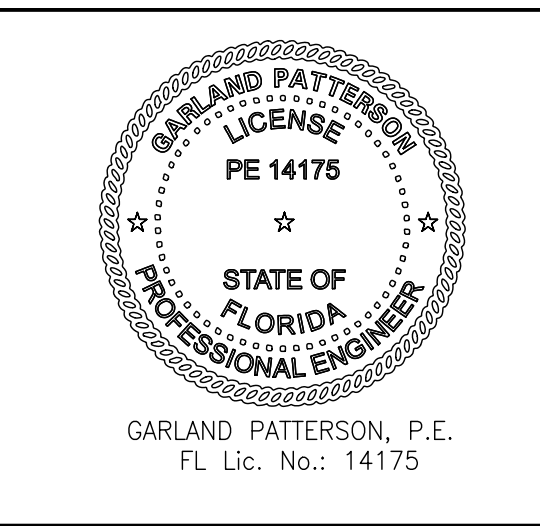
**APEC**  
**AUTOMATED PETROLEUM & ENERGY COMPANY**

DESIGN TEAM TITLE:

**MDM SERVICES, INC.**  
engineering • environmental • construction  
1085 KATHLEEN ROAD, LAKELAND, FLORIDA 33805  
Phone: (863) 646-9130  
2151 W. HILLSBORO BOULEVARD, SUITE 401  
DEERFIELD BEACH, FLORIDA 33442  
Phone: (954) 427-3076  
FL. CA. #4857

NO.	DATE	REVISION DESCRIPTION

**MDCI FLORIDA, INC.**  
405 2nd Street South Suite B  
Safety Harbor, Florida 34695  
Engineering Business No. 9204  
Ph. 727.698.0398 Fax 727.797.8225  
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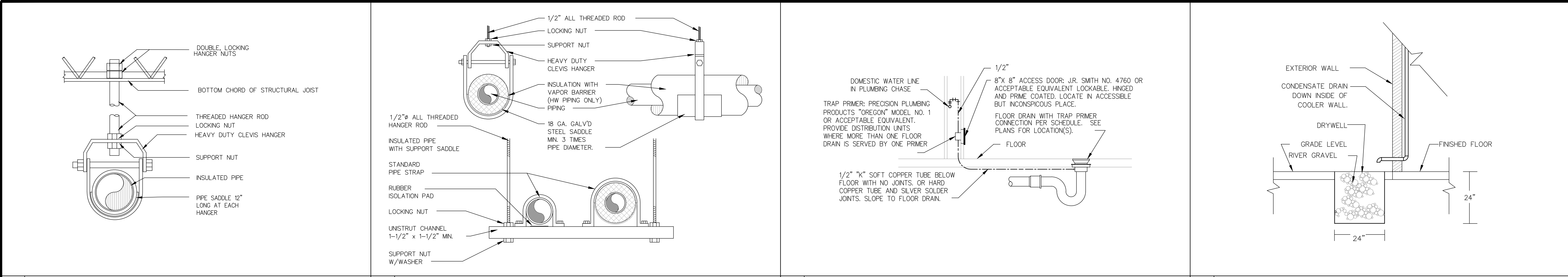


**APEC GAS STATION**

SITE DESIGNATIONS:

**2902 SW PORT ST LUCIE BLVD, PORT ST LUCIE, FL (SAINT LUCIE COUNTY)**

SCALE: AS NOTED MDM JOB # 21126  
DATE: 10-29-2021  
DESIGNED BY:  
DRAWN BY: MJO FILE NAME:  
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**PLUMBING SUPPLY FLOOR PLAN**  
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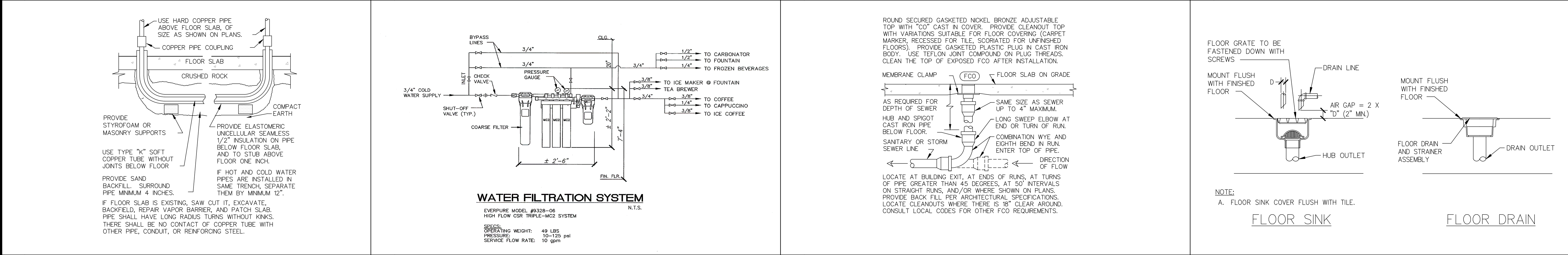


1 CLEVIS HANGER DETAIL SCALE: NONE

2 PIPE HANGERS SCALE: NONE

3 TRAP PRIMER DETAIL SCALE: NONE

4 DRYWELL DETAIL (WHERE APPLICABLE) SCALE: NONE

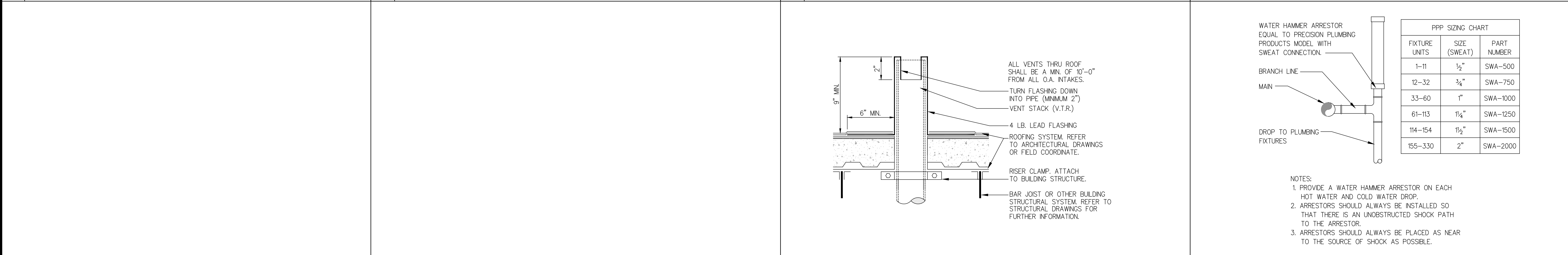


5 WATER PIPE UNDER SLAB SCALE: NONE

6 WATER FILTRATION SCHEMATIC SCALE: NONE

7 FLOOR CLEANOUT SCALE: NONE

8 FLOOR SINK/DRAIN DETAILS SCALE: NONE

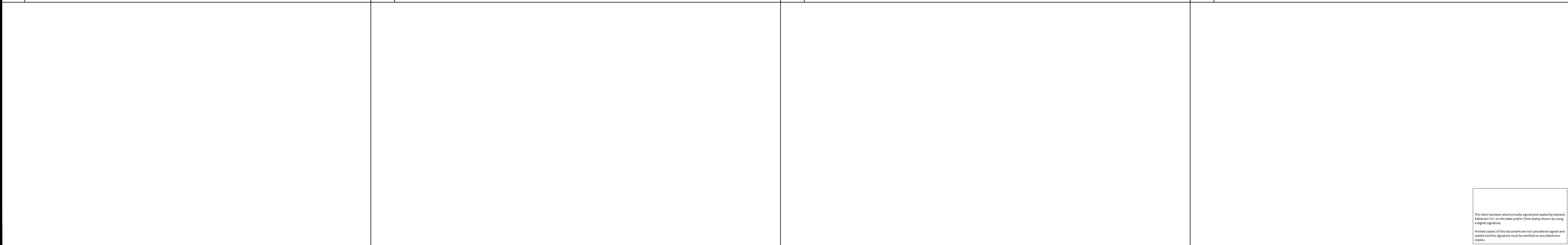


9 NOT USED SCALE: NONE

10 NOT USED SCALE: NONE

11 VENT THRU ROOF DETAIL (WHERE APPLICABLE) SCALE: NONE

12 WATER HAMMER ARRESTOR DETAIL SCALE: NONE



13 NOT USED SCALE: NONE

14 NOT USED SCALE: NONE

15 NOT USED SCALE: NONE

16 NOT USED SCALE: NONE

CLIENT:

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1055 KATHLEEN ROAD, LAKELAND, FLORIDA 33805

Phone: (863) 646-9130

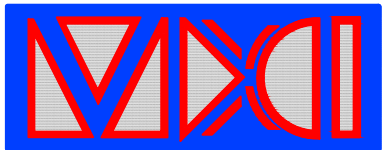
2151 W. HILLSBORO BOULEVARD, SUITE 401

DEERFIELD BEACH, FLORIDA 33442

Phone: (954) 427-3076

FL. CA. #4857

NO. DATE REVISION DESCRIPTION



**MDCI FLORIDA, INC.**

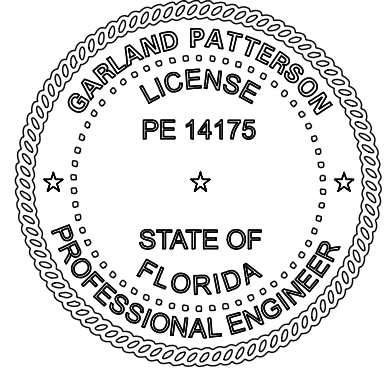
405 2nd Street, South Suite B

Safety Harbor, Florida 34695

Engineering Business No. 9204

Ph. 727.698.0398 Fax 727.797.8225

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GARLAND PATTERSON, P.E.

FL Lic. No.: 14175

**APEC  
GAS STATION**

SITE DESIGNATIONS:

**2902 SW PORT ST LUCIE  
BLVD, PORT ST LUCIE, FL  
(SAINT LUCIE COUNTY)**

SCALE: AS NOTED MDM JOB # 21126

DATE: 10-29-2021

DESIGNED BY:

DRAWN BY: MJO

FILE NAME:

CHECKED BY:

DRAWING TITLE:

**PLUMBING DETAILS**

SHEET NO.

**P1.4**

