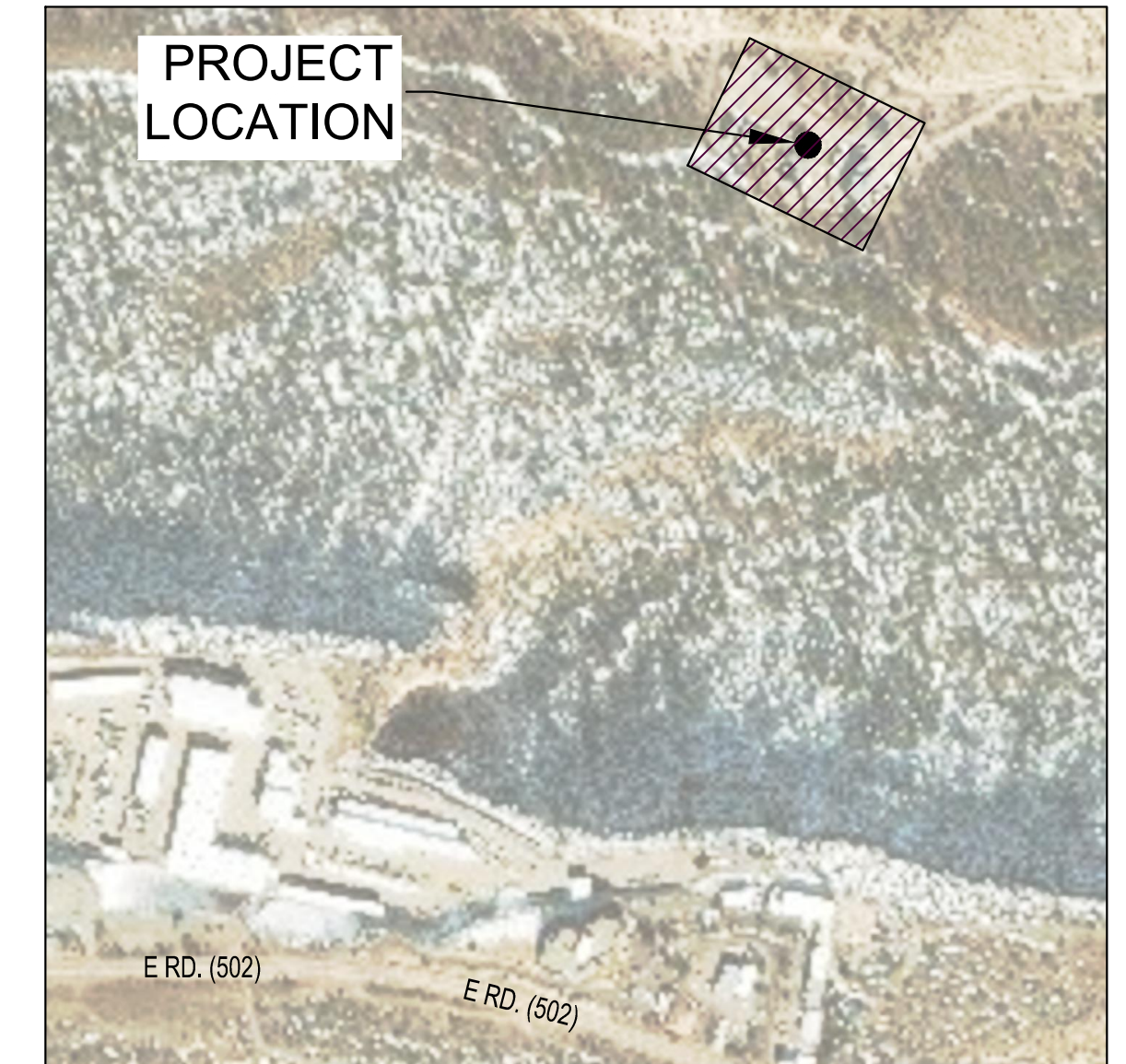
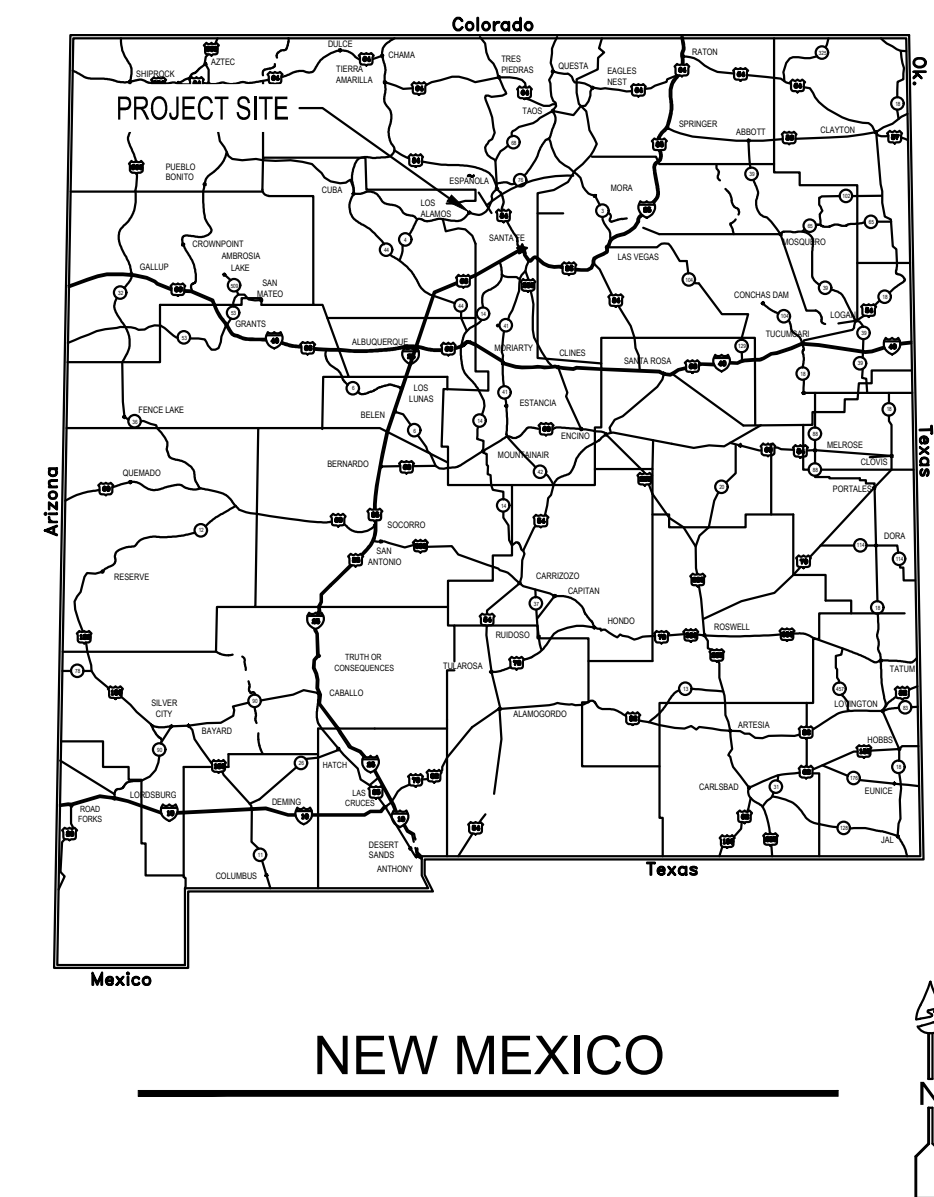


# CONSTRUCTION PLANS FOR LOS ALAMOS COUNTY WWTP BELT PRESS REPLACEMENT LOS ALAMOS, NEW MEXICO SEPTEMBER 2024 ISSUE FOR BID SET



**VICINITY  
MAP**



1. DESIGN PROFESSIONALS
  - A.) PRIME DESIGN PROFESSIONAL : TODD BURT, BOHANNAN HUSTON INC.
  - B.) STRUCTURAL ENGINEER: JUSTIN LOGAN, AQUA ENGINEERING
  - C.) ELECTRICAL ENGINEER: MARK JEPPSON, SKM ENGINEERING
  - D.) MECHANICAL ENGINEER: JUSTIN LOGAN, AQUA ENGINEERING
  - E.) PROCESS ENGINEER: JUSTIN LOGAN, AQUA ENGINEERING
  
2. SITE ADDRESS:  
 3500 PUEBLO CANYON RD.  
 LOS ALAMOS, NM 87544

ENGINEERS STAMP & SIGNATURE



**Bohannon**  **Huston**  
www.bhinc.com 800.877.5332

 **AQUA**  
ENGINEERING

533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
PHONE (801) 299-1327 FAX (801) 299-0153

LOS ALAMOS COUNTY PUBLIC WORKS  
DEPARTMENT OF PUBLIC UTILITIES  
FUNDING NO. #

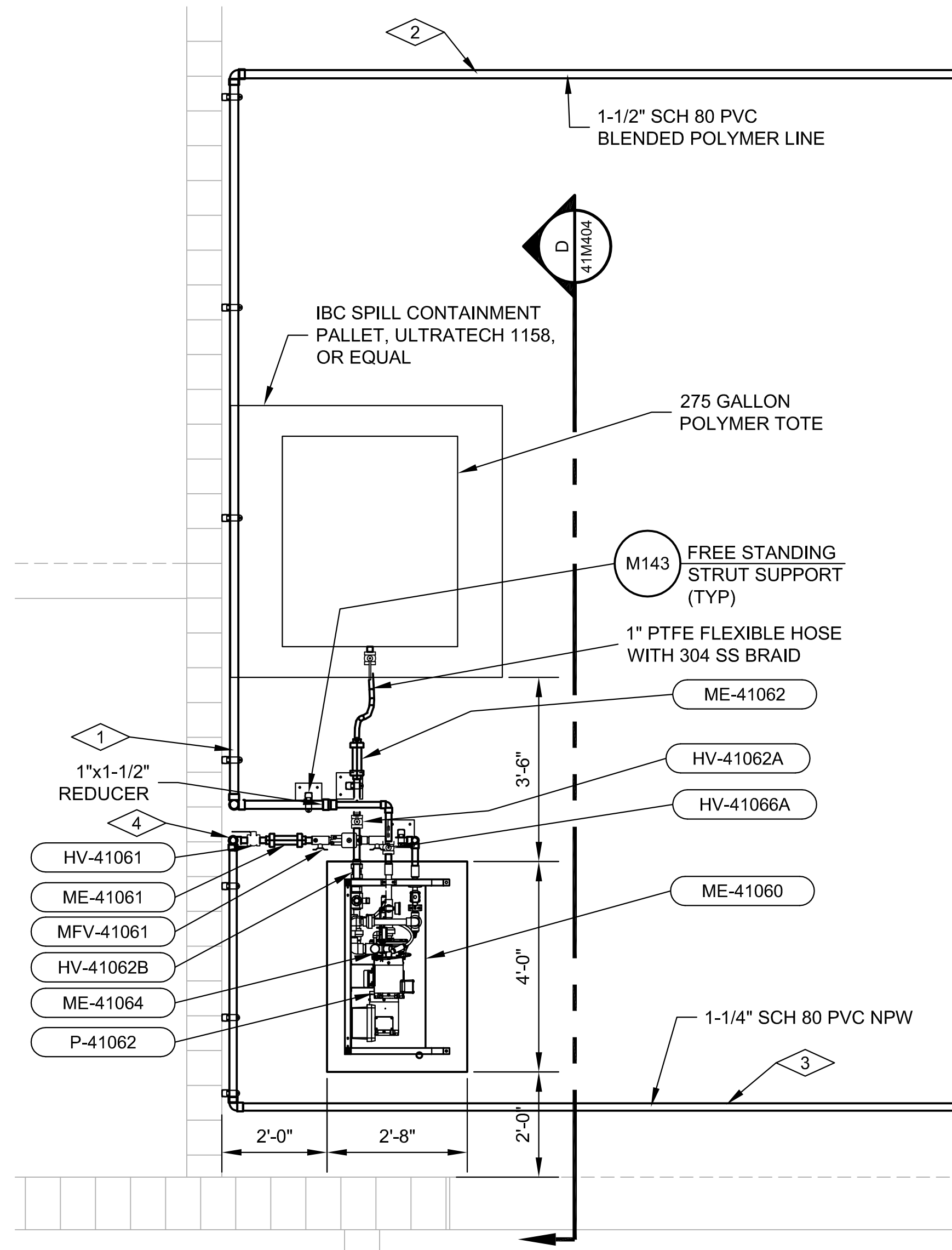
**LOS ALAMOS COUNTY WWTP  
BELT PRESS REPLACEMENT  
GENERAL**

**TITLE PAGE, PROJECT LOCATION, AND VICINITY MAPS**

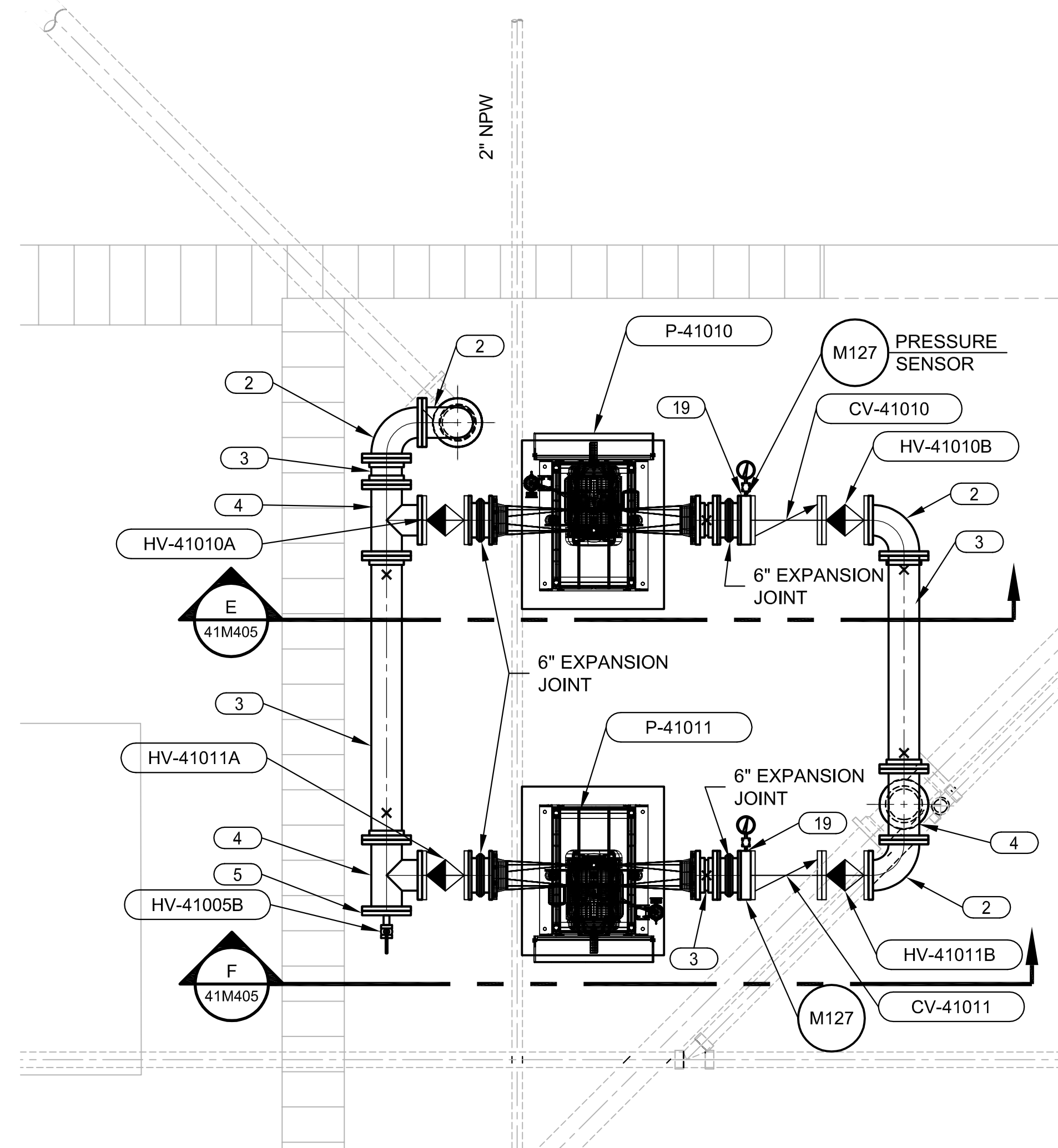
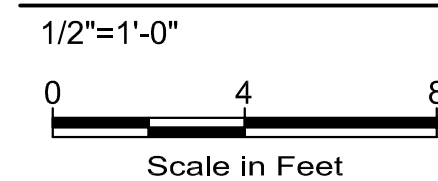
BHI PROJECT NO. 20240342	DWG NO. 00G001	SHEET OF
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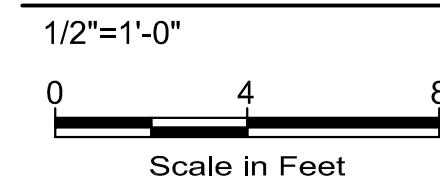




**POLYMER AREA PLAN**



**PUMP AREA PLAN**



**NOTES:**

- 1- REUSE EXISTING OR PROVIDE PIPE SUPPORTS AS SHOWN IN DETAIL M132 IN LOCATIONS MARKED WITH AN "X" OR AS REQUIRED.
- 2- INSTALL AND ANCHOR ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURERS. VERIFY DIMENSIONS, SUPPORTS, WEIGHTS AND DETAILS.
- 3- REFER TO PROTECTIVE COATINGS SCHEDULE AND TECHNICAL SPECIFICATION SECTION 09800 FOR STRUCTURE, PIPING, EQUIPMENT, AND MISCELLANEOUS COATING REQUIREMENTS.
- 4- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL AND INSTRUMENTATION REQUIREMENTS.
- 5- FOR PIPE SCHEDULE SEE SHEET 41M801.
- 6- USE NON-METALLIC STRUT SYSTEM (VINYL ESTER).
- 7- ALL DIP PIPING SHALL BE GLASS-LINED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION SECTION 400519.

**KEYNOTES:**

- 1- ROUTE BLENDED POLYMER PIPING VERTICALLY UP WALL AT LEAST 18 INCHES ABOVE HEIGHT OF EXISTING RADIANT TUBE HEATER BEFORE ROUTING HORIZONTALLY. SECURE ALONG WALL WITH STRUT SUPPORTS DETAIL M142.
- 2- ROUTE BLENDED POLYMER PIPING ALONG CEILING UNTIL DROPPING DOWN AT INJECTION POINT IN DEWATERING EQUIPMENT FEED PIPING. SECURE TO CEILING JOISTS USING PIPE HANGERS PER DETAIL M134. IDENTIFY AND EVALUATE POTENTIAL CONFLICTS WITH EXISTING SYSTEMS PRIOR TO INSTALLATION.
- 3- ROUTE 1-1/4" SCH PVC NPW LINE WITHIN CEILING. SUPPORT WITH VINYL ESTER STRUT SYSTEM AND CLAMPS PER DETAIL M142.
- 4- DROP NPW PIPE THROUGH CEILING VERTICALLY ALONG WALL. SECURE ALONG WALL WITH STRUT SUPPORTS DETAIL M142.



**BENCH MARKS**

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**ENGINEER'S SEAL**




**AS-BUILT INFORMATION**


CONTRACTOR	DATE	WORK STARTED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

**REVISIONS**

NO.	DATE	BY



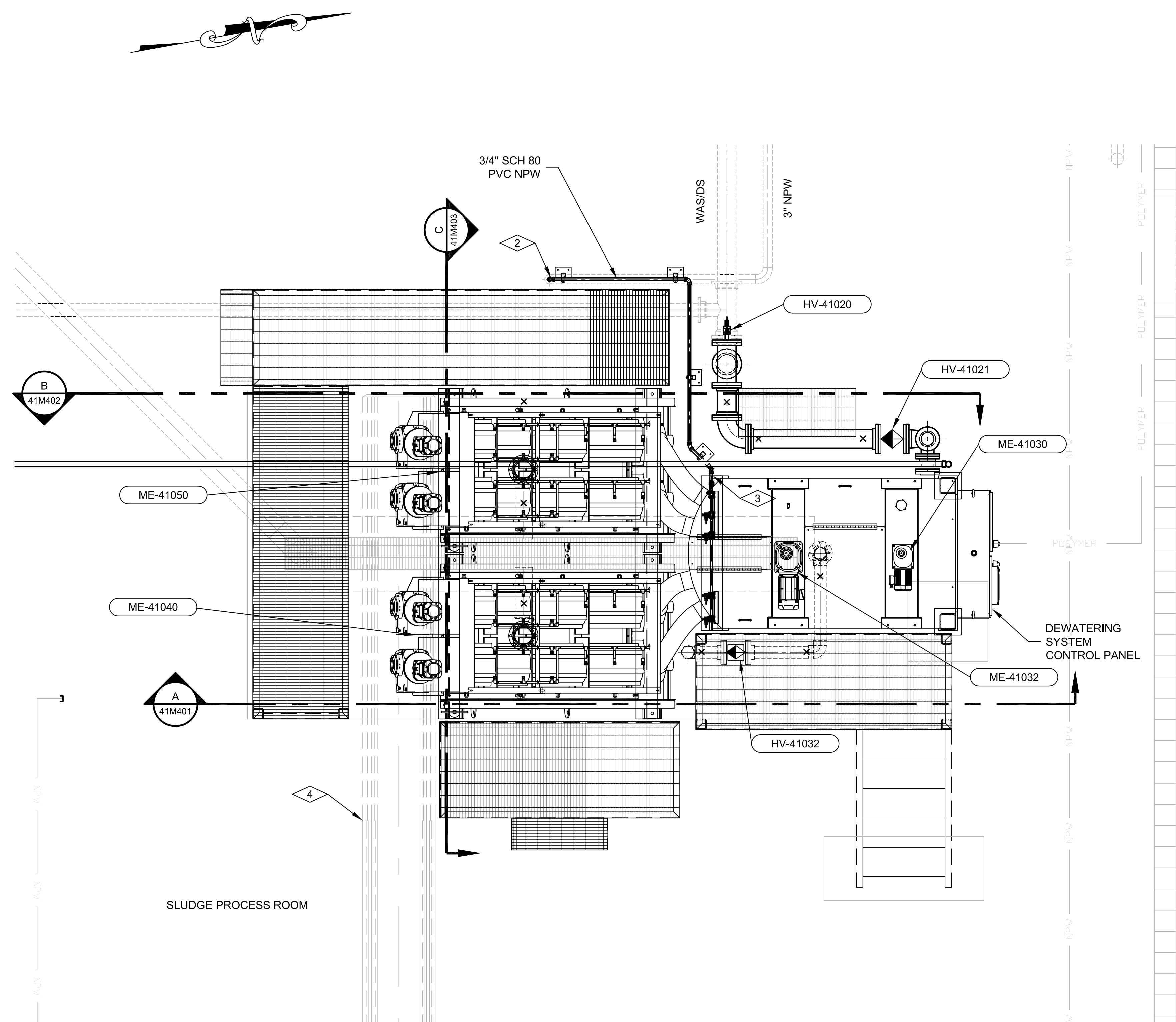
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**LOS ALAMOS COUNTY WWTP  
BELT PRESS REPLACEMENT  
MECHANICAL  
PLANS**

BHI PROJECT NO.	20240342	DWG NO.	41M202	SHEET	24	OF	56
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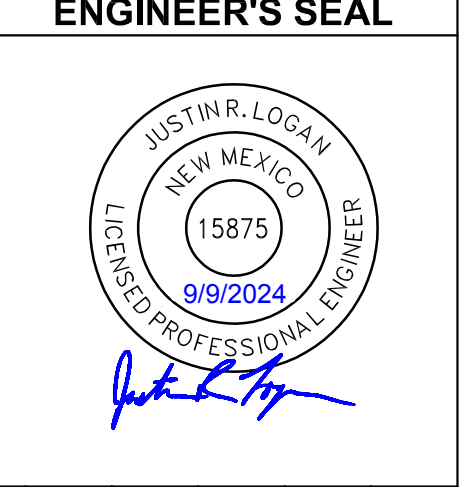
SLUDGE PROCESS ROOM

**PLAN**  
1/2"=1'-0"  
0 2 4  
Scale in Feet

- NOTES:**
- 1- REUSE EXISTING OR PROVIDE PIPE SUPPORTS AS SHOWN IN DETAIL M132 IN LOCATIONS MARKED WITH AN "X" OR AS REQUIRED.
  - 2- INSTALL AND ANCHOR ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURERS. VERIFY DIMENSIONS, SUPPORTS, WEIGHTS AND DETAILS.
  - 3- REFER TO PROTECTIVE COATINGS SCHEDULE AND TECHNICAL SPECIFICATION SECTION 09800 FOR STRUCTURE, PIPING, EQUIPMENT, AND MISCELLANEOUS COATING REQUIREMENTS.
  - 4- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL AND INSTRUMENTATION REQUIREMENTS.
  - 5- FOR PIPE SCHEDULE SEE SHEET 41M801.
  - 6- SEE STRUCTURAL DRAWINGS FOR WALKWAY FRAMING PLAN.
  - 7- ALL DIP PIPING SHALL BE GLASS-LINED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION SECTION 400519.
- KEYNOTES:**
- 1- TEE INTO EXISTING NPW LINE AND REDUCE TO 1 1/2".
  - 2- ROUTE 3/4" SCH 80 PVC NPW ALONG FLOOR WITH SS STRUT SYSTEM PER DETAIL M142.
  - 3- CONNECT TO SCREW PRESS WASH WATER ASSEMBLY.
  - 4- PROVIDE IMPROVEMENTS TO EXISTING CONVEYOR BELT SYSTEM (BID ALTERNATE). REFER TO SUMMARY OF WORK SPECIFICATION 011000.



**BENCH MARKS**

**AS-BUILT INFORMATION**

CONTRACTOR	DATE	WORK STARTED BY	DATE	INSPECTOR'S ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

**REVISIONS**

NO.	DATE	BY

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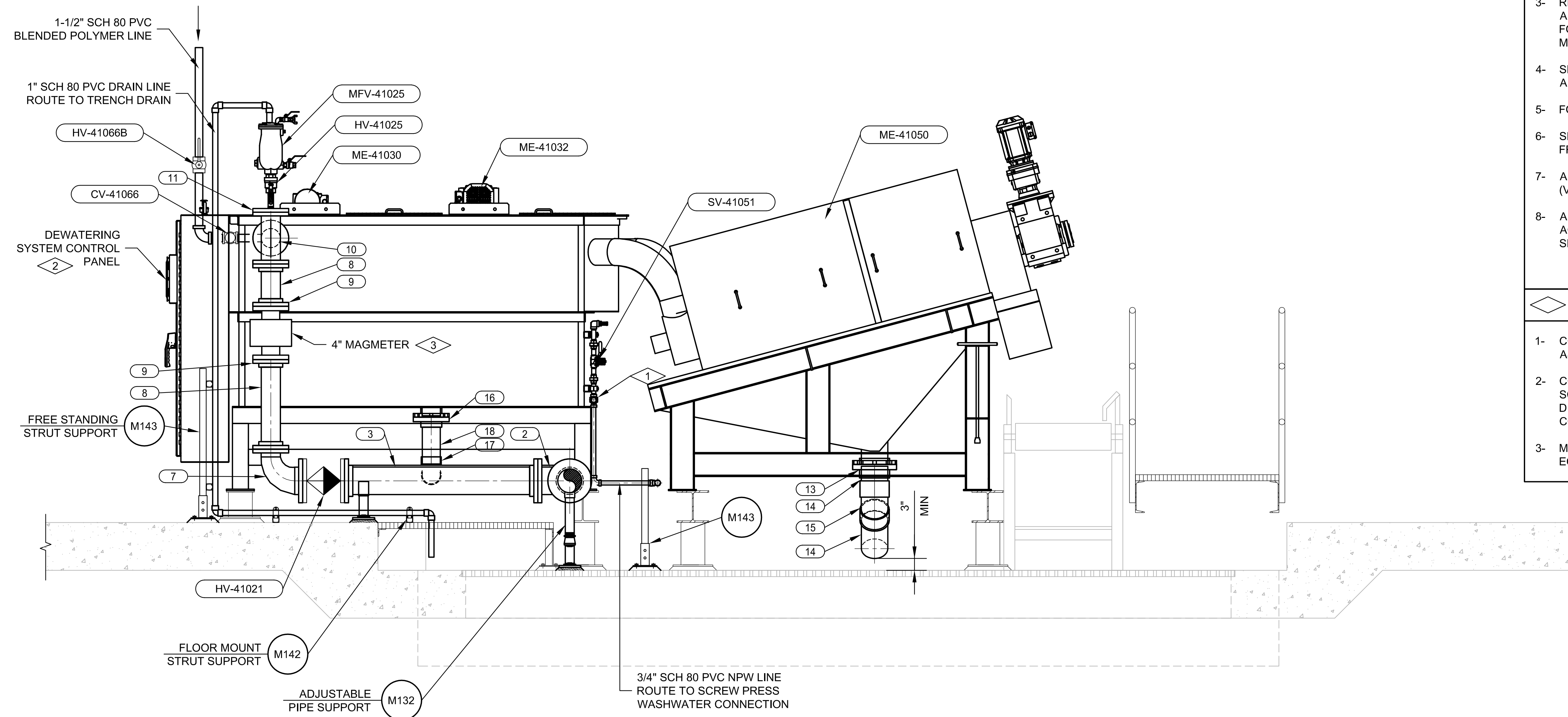
**Bohannon Huston**  
www.bhinc.com 800.877.5332

DESIGNED BY	BP
CHECKED BY	JRL
DRAWN BY	AQUA

**LOS ALAMOS COUNTY WWTP  
BELT PRESS REPLACEMENT  
MECHANICAL  
PLAN**

BHI PROJECT NO.	20240342	DWG NO.	41M203	SHEET	25	OF	56
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**B SECTION**  
 41M201 3/4"=1'-0"  
 0 1 2  
 Scale in Feet

**NOTES:**

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- 4- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL AND INSTRUMENTATION REQUIREMENTS.
- 5- FOR PIPE SCHEDULE SEE SHEET 41M801.
- 6- SEE STRUCTURAL DRAWINGS FOR WALKWAY FRAMING PLAN.
- 7- ALL STRUT SHALL BE NON-METALLIC (VINLY ESTER).
- 8- ALL DIP PIPING SHALL BE GLASS-LINED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION SECTION 400519.

**KEYNOTES:**

- 1- CONNECT TO SCREW PRESS WASH WATER ASSEMBLY.
- 2- CONTROL PANEL SHALL BE MOUNTED TO SCREW PRESS TANKS. FINAL CONTROL PANEL DIMENSIONS AND MOUNTING HEIGHT SHALL BE COORDINATED WITH ENGINEER.
- 3- MAGMETER SUPPLIED WITH SCREW PRESS EQUIPMENT.



BENCH MARKS

ENGINEER'S SEAL



AS-BUILT INFORMATION

NO.	DATE	CONTRACTOR		WORK STAGED BY		INSPECTORS ACCEPTANCE BY		FIELD VERIFICATION BY		DRAWINGS CORRECTED BY	
		BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE

REVISIONS

NO.	DATE	BY	DESCRIPTION

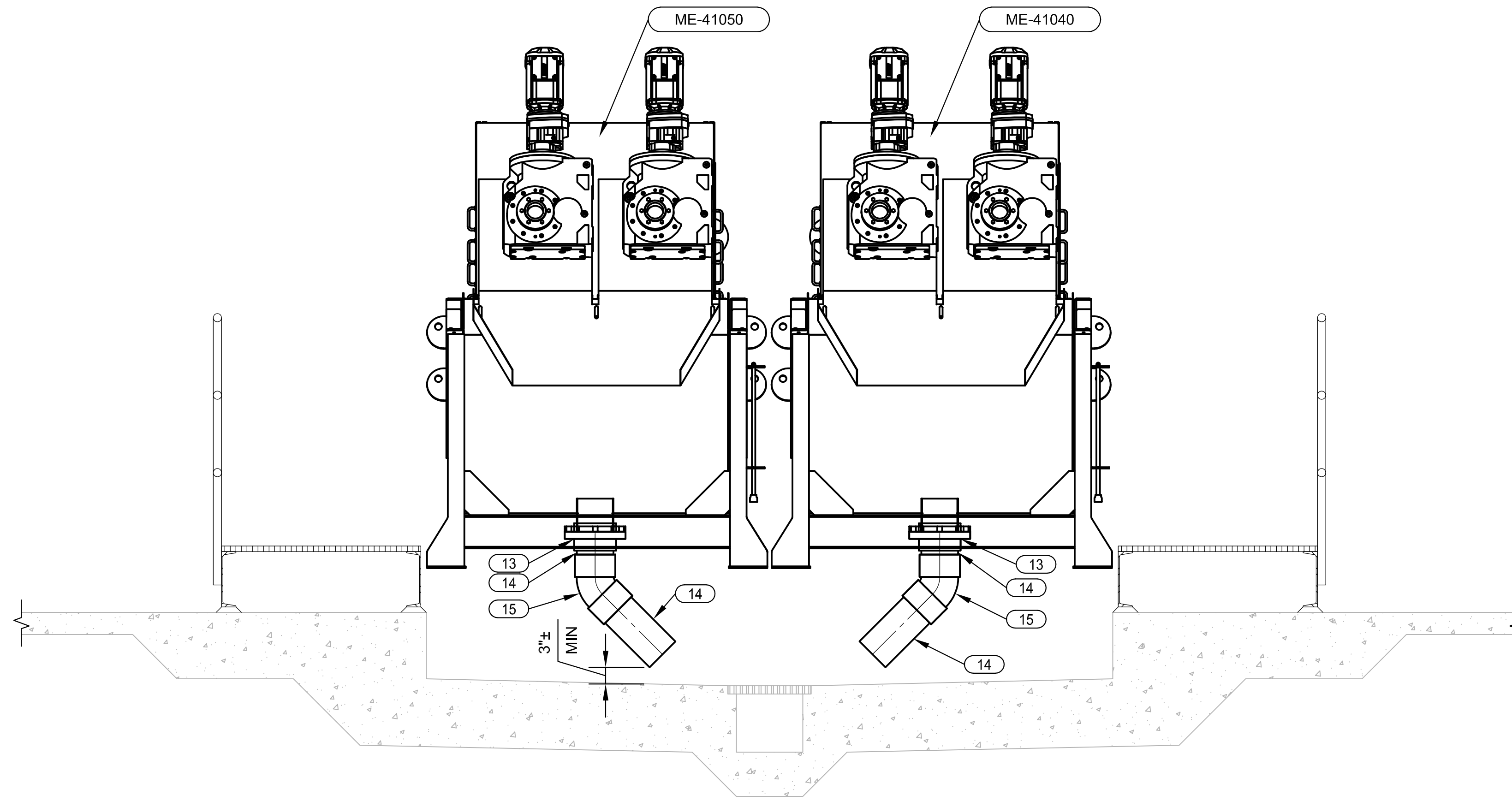
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 www.bhinc.com 800.877.5332

DESIGNED BY: BP  
 CHECKED BY: JRL  
 DRAWN BY: AQUA

**LOS ALAMOS COUNTY WWTP  
 BELT PRESS REPLACEMENT  
 MECHANICAL  
 SECTION**

BHI PROJECT NO. 20240342 DWG NO. 41M402 SHEET 27 OF 56



**C SECTION**  
 41M201 3/4"=1'-0"  
 Scale in Feet

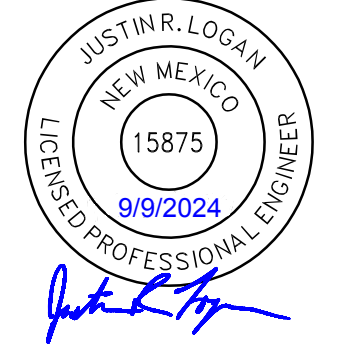
**NOTES:**

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- 4- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL AND INSTRUMENTATION REQUIREMENTS.
- 5- FOR PIPE SCHEDULE SEE SHEET 41M801.
- 6- SEE STRUCTURAL DRAWINGS FOR WALKWAY FRAMING PLAN.



BENCH MARKS

ENGINEER'S SEAL



AS-BUILT INFORMATION

NO.	DATE	CONTRACTOR	DATE	WORK STARTED BY	DATE	INSPECTOR'S ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	BP
CHECKED BY	JRL
DRAWN BY	AQUA

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**LOS ALAMOS COUNTY WWTP  
 BELT PRESS REPLACEMENT  
 MECHANICAL  
 SECTION**

BHI PROJECT NO.	20240342	DWG NO.	41M403	SHEET	28	OF	56
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