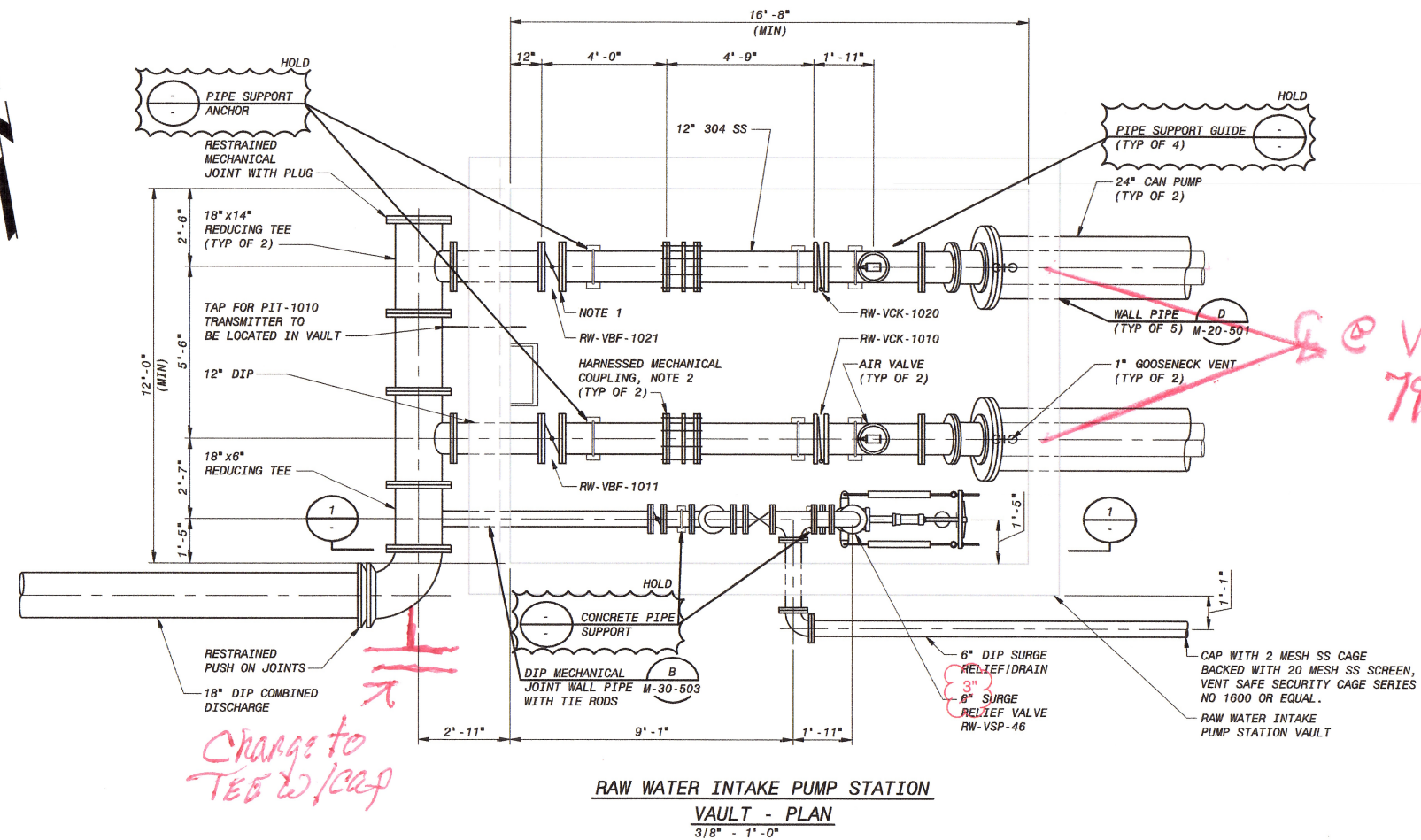
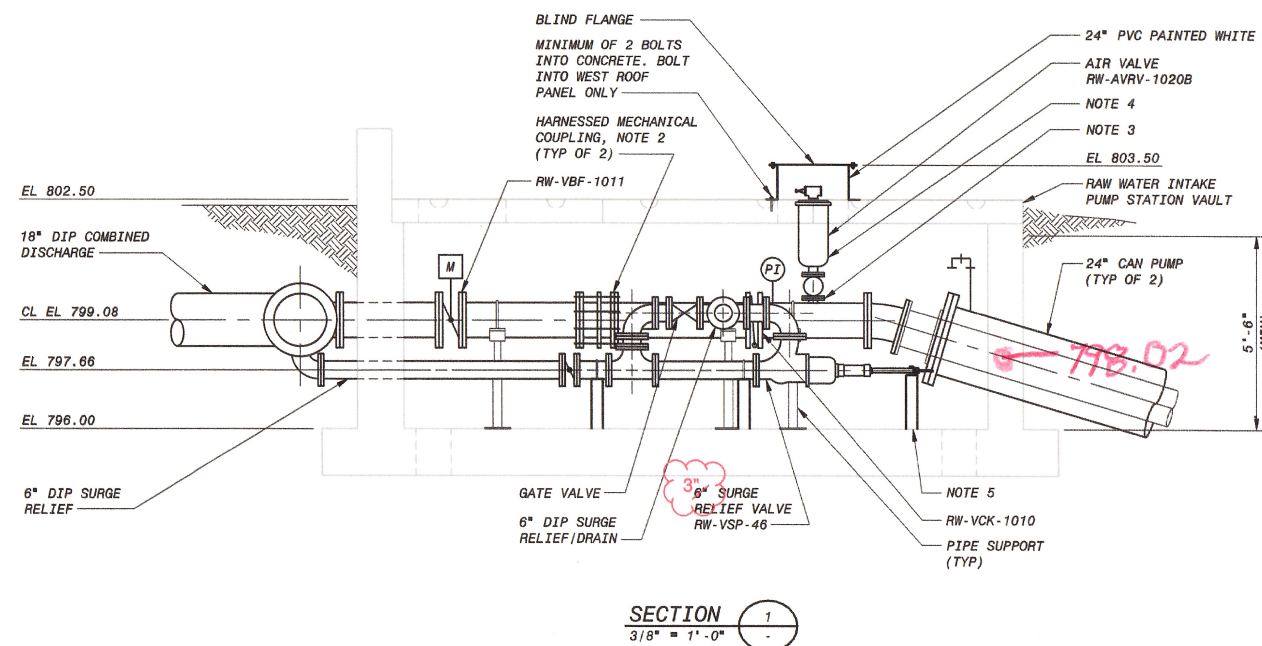




Charge to
TEE W/cap

@ Wall
798.02

Revised



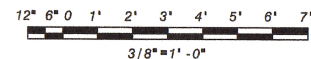
RFI 21

ECN-007

NOTES:

1. LUGGED BUTTERFLY VALVE IS A ANSI B16.1 CLASS 250 DRILLED TO CLASS 125.
2. EACH CONNECTION SHALL BE A RESTRAINED DISMANTLING JOINT OR HARNESSED MECHANICAL COUPLING. DISMANTLING JOINTS SHALL BE DRESSER STYLE 131 OR EQUAL, WITH TWO 7/8\"
3. PROVIDE 4\"
4. APCO MODEL 146DAT, OR EQUAL.
5. 3\"

OPEN



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Black & Veatch Corporation
Virginia Beach, VA

**BEDFORD REGIONAL WATER AUTHORITY
SMITH MOUNTAIN LAKE WTP &
RAW WATER PUMPING STATION / INTAKE**

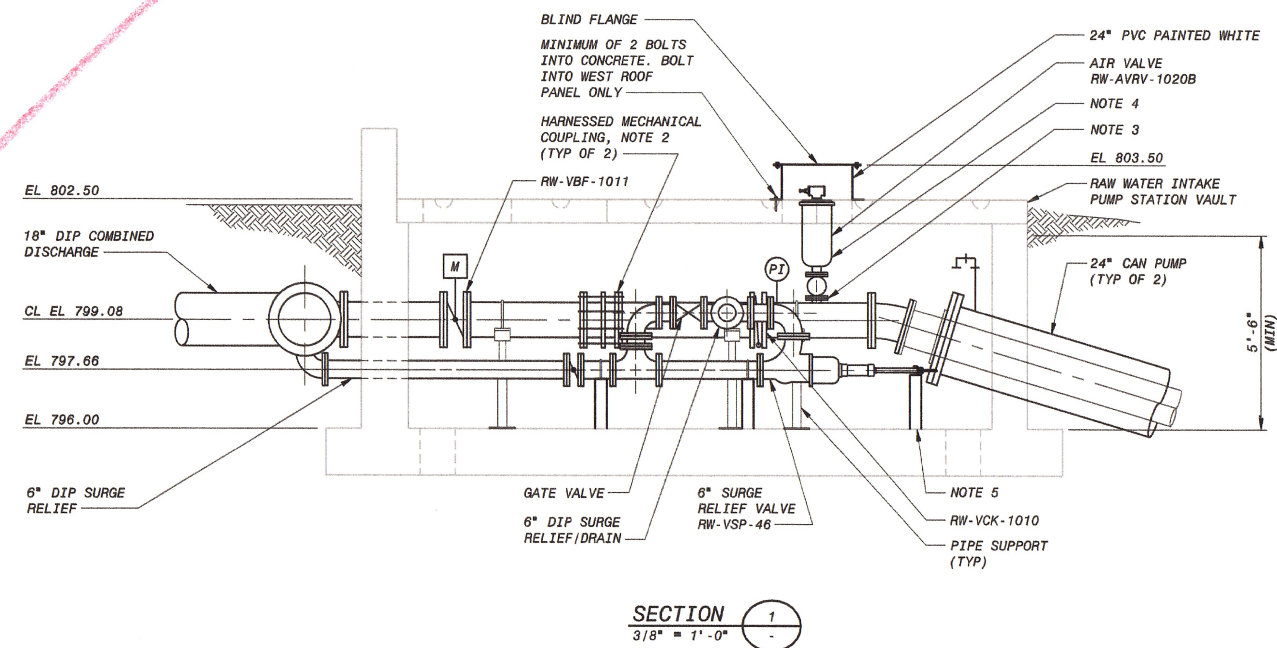
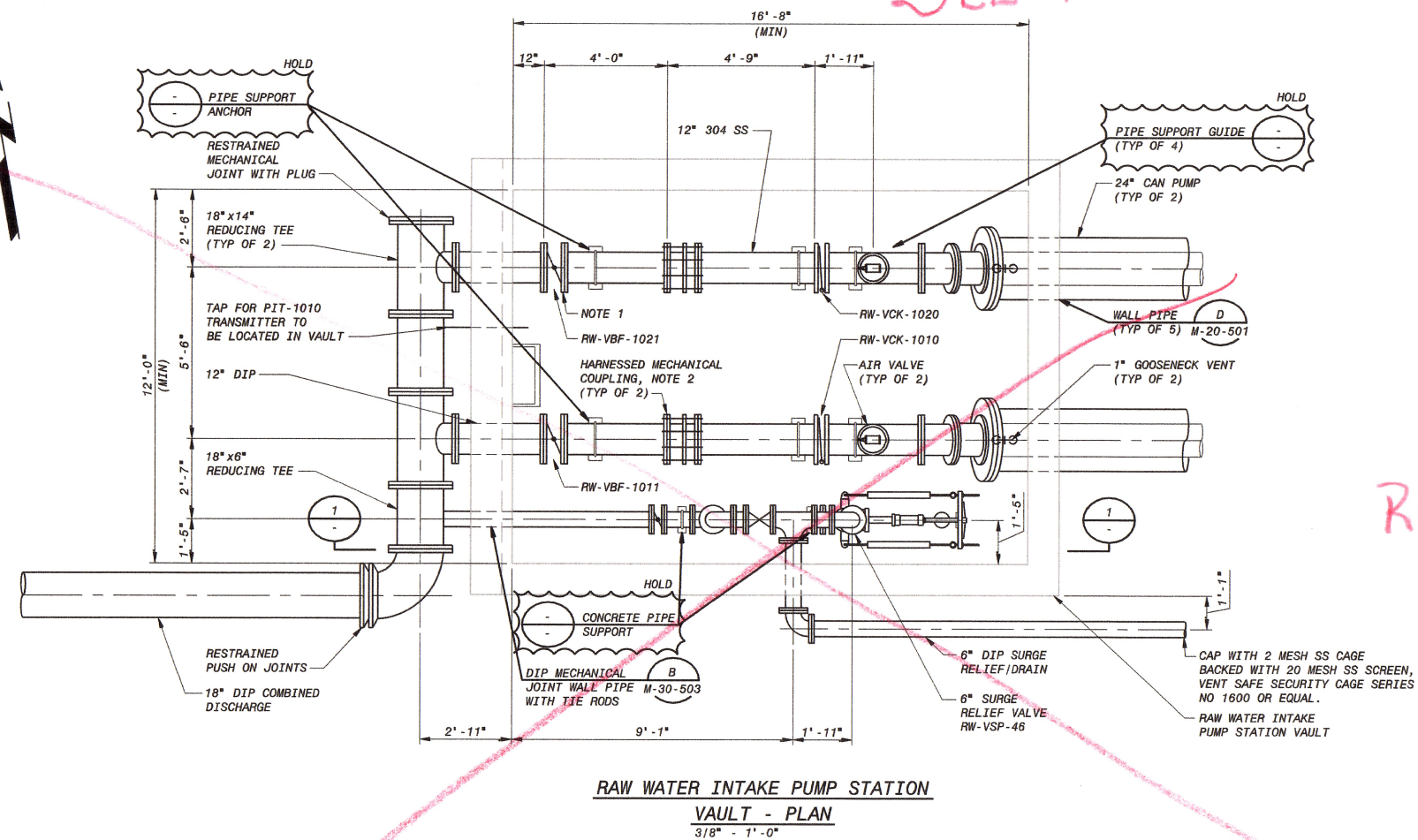
**MECHANICAL
RAW WATER INTAKE PUMP STATION VAULT
PLAN AND SECTION**

DESIGNED: LRO	0	MAK	TJS	PJD
DATE: 12/04/15	NO.	BY	CHK	APP
12/04/15	ISSUED FOR CONSTRUCTION	REVISIONS AND RECORD OF ISSUE		
50-3070 - Mechanical Process Drawings				
M-20-101.dwg				
SAVED: K02-48353, 8/13/2015 2:56:28 PM				
PLOTTED:				
USER: K02-48353				
DWG VER: 1000				
XREF1:				
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XREF3:				
XREF4:				

PROJECT NO.
182262

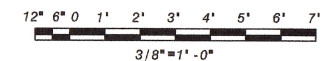
M-20-101

SHEET
OF



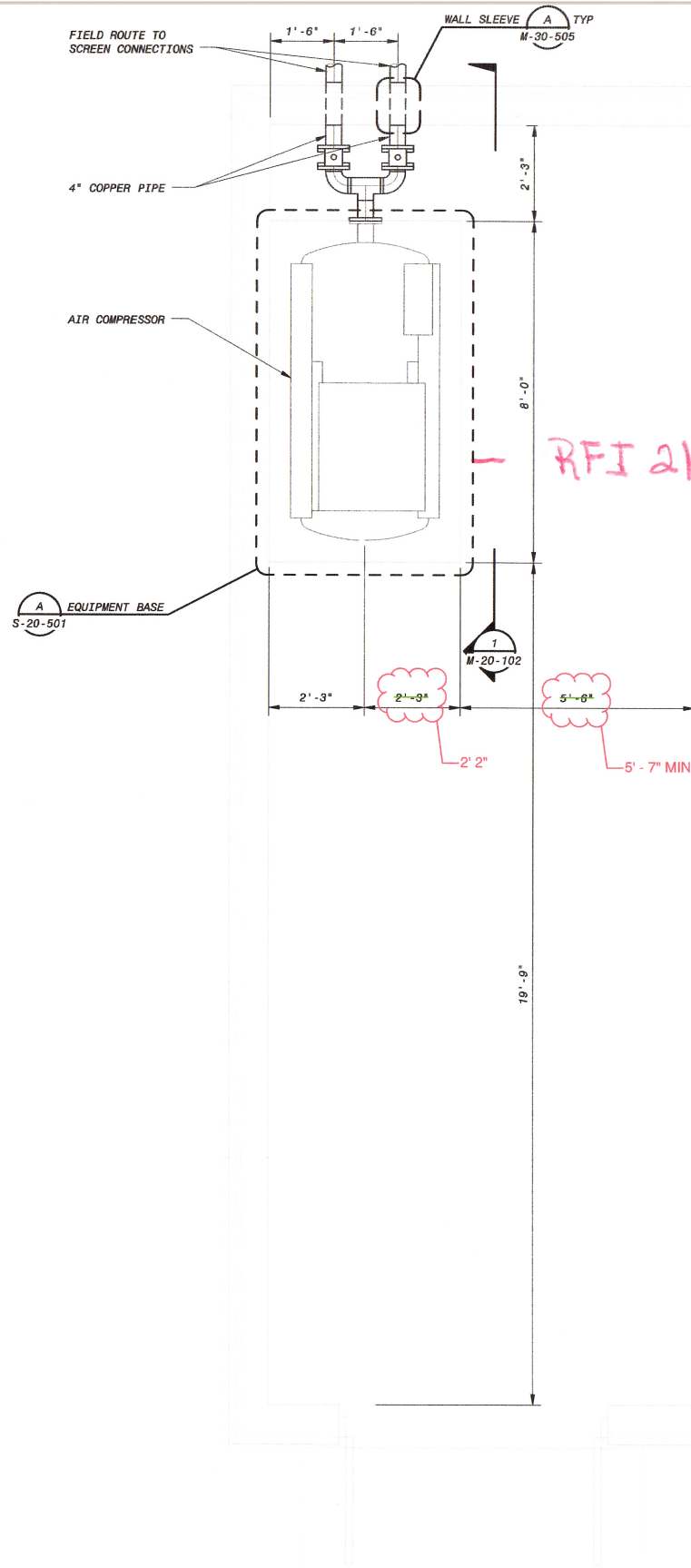
- NOTES:**

1. LUGGED BUTTERFLY VALVE IS A ANSI B16.1 CLASS 250 DRILLED TO CLASS 125.
2. EACH CONNECTION SHALL BE A RESTRAINED DISMANTLING JOINT OR HARNESSED MECHANICAL COUPLING. DISMANTLING JOINTS SHALL BE DRESSER STYLE 131 OR EQUAL, WITH TWO 7/8" TIE RODS EACH WITH DOUBLE NUTS ON EACH SIDE. COUPLING SHALL BE DRESSER STYLE 38 OR EQUAL. EACH COUPLING SHALL HAVE A MINIMUM OF 2 TIE RODS, EACH 2-1/2" WITH DOUBLE NUTS ON EACH SIDE.
3. PROVIDE 4" FLANGE CONNECTION TO ALLOW SIZE INCREASE FOR FUTURE FLOW.
4. APCO MODEL 146DAT, OR EQUAL.
5. 6" SURGE RELIEF VALVE SHALL BE APCO SERIES 3000 OR EQUAL. VALVE SHALL BE INSTALLED IN THE HORIZONTAL. SUPPORTS AND INSTALLATION PER VENDOR'S RECOMMENDATIONS.

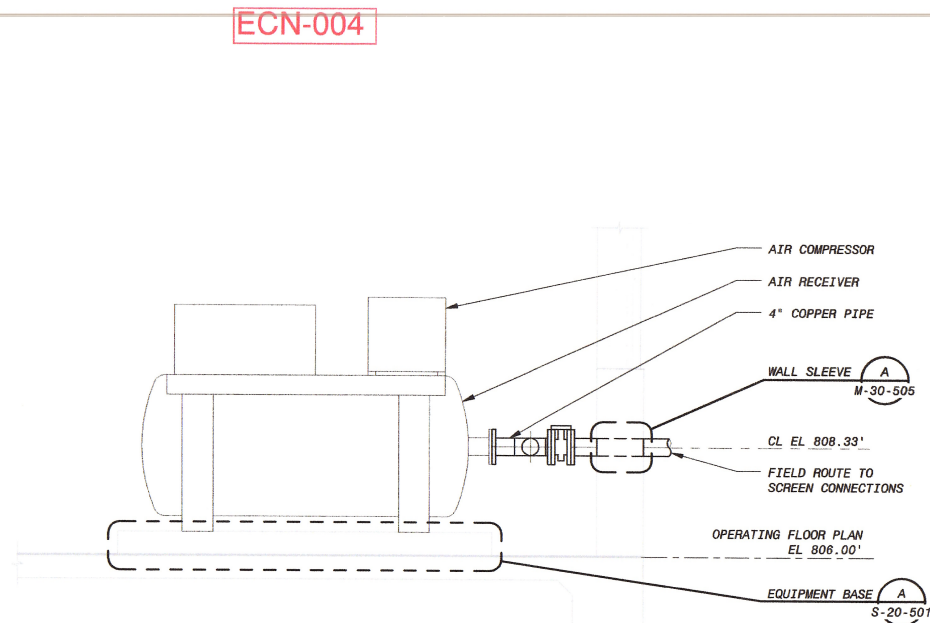


ISSUED FOR CONSTRUCTION

BLACK & VEATCH Building a world of difference™ Black & Veatch Corporation Virginia Beach, VA		COMMONWEALTH OF VIRGINIA PAUL J. DELPHOS Lic. No. 009853 <i>Paul J. Delphos</i> REGISTERED PROFESSIONAL ENGINEER		ISSUED FOR CONSTRUCTION DATE: 12/04/15 REVISIONS AND RECORD OF ISSUE NO. 01 BY TJS CHK APP. RJD	
RAW WATER INTAKE PUMP STATION VAULT PLAN AND SECTION		MECHANICAL RAW WATER INTAKE PUMP STATION VAULT PLAN AND SECTION		50, 3070 - Mechanical Process Drawings M-20-101.dwg XREF1: XREF2: XREF3: XREF4:	
DESIGNED: LRO DATE: 12/04/15		0 1/2 1 IF THIS BAR DOES NOT MEASURE 6" THEN DRAWING IS NOT TO FULL SCALE		SAVED: X06-08353, 8/13/2015 2:56:28 PM PLOTTED: USER: X06-08353 DWG VER: 1000	
PROJECT NO. 182262		M-20-101		SHEET OF	



OPERATING FLOOR PLAN
1/2" = 1'-0"

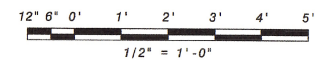


SECTION
M-20-102 1/2" = 1'-0"

ECN 4

ECN-004

OPEN

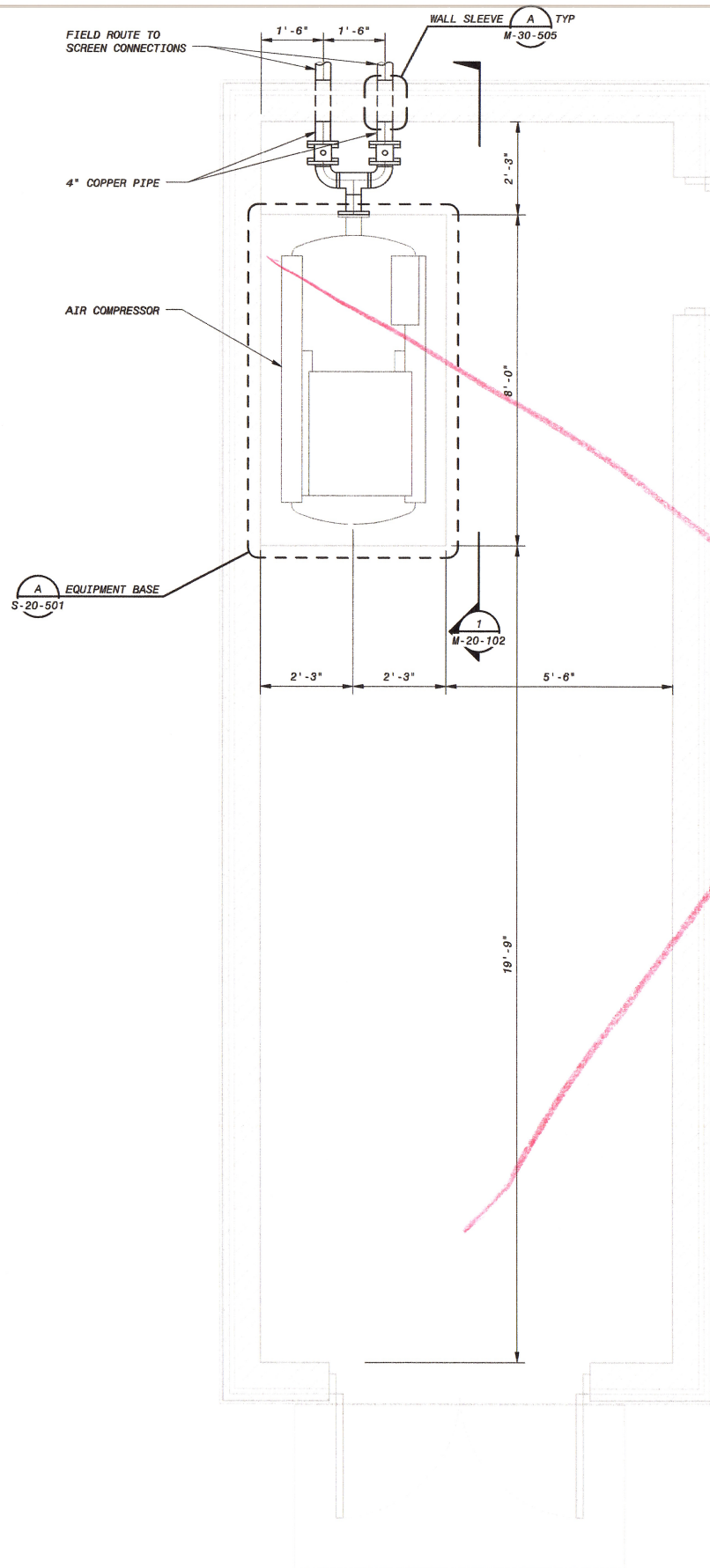


ISSUED FOR CONSTRUCTION

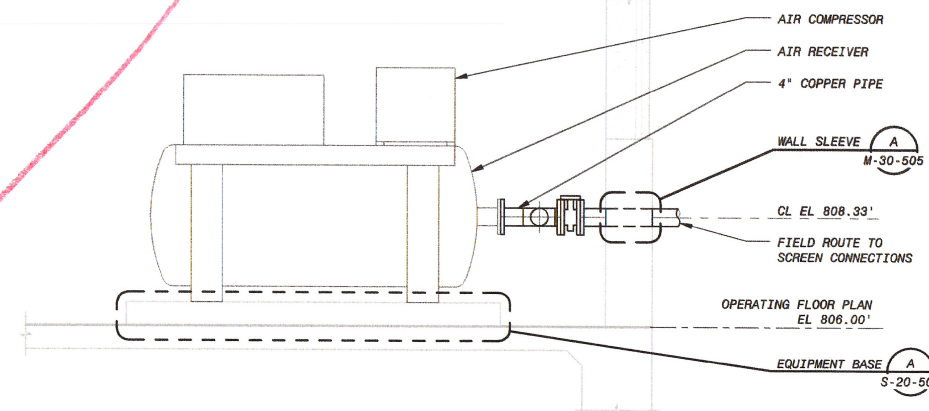
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Virginia Beach, VA

BEDFORD REGIONAL WATER AUTHORITY
SMITH MOUNTAIN LAKE WTP &
RAW WATER PUMPING STATION / INTAKE
MECHANICAL
ELECTRICAL BUILDING
OPERATING FLOOR PLAN

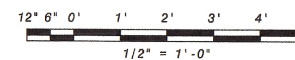
DESIGNED: LRO
DETAILED: MAK
CHECKED: TJS
APPROVED: PJD
DATE: 12/04/15
PROJECT NO.
182262
M-20-102
SHEET
OF -



OPERATING FLOOR PLAN
1/2" = 1'-0"



SECTION
M-20-102 1/2" = 1'-0"



ISSUED FOR CONSTRUCTION

BEDFORD REGIONAL WATER AUTHORITY SMITH MOUNTAIN LAKE WTP & RAW WATER PUMPING STATION / INTAKE MECHANICAL ELECTRICAL BUILDING OPERATING FLOOR PLAN		DESIGNED: LRO DETAILED: MAK CHECKED: TJS APPROVED: PJD DATE: 12/04/15
PROJECT NO. 182262		SHEET OF -
BLACK & VEATCH Building a world of difference. Black & Veatch Corporation Virginia Beach, VA		COMMONWEALTH OF VIRGINIA PAUL J. DELPHOS U.S. ARCHITECT PROFESSIONAL SEAL 12/04/15 DATE PW: R: 12/04/15 SW: 12/04/15 PLOTTED: 12/04/15 USER: