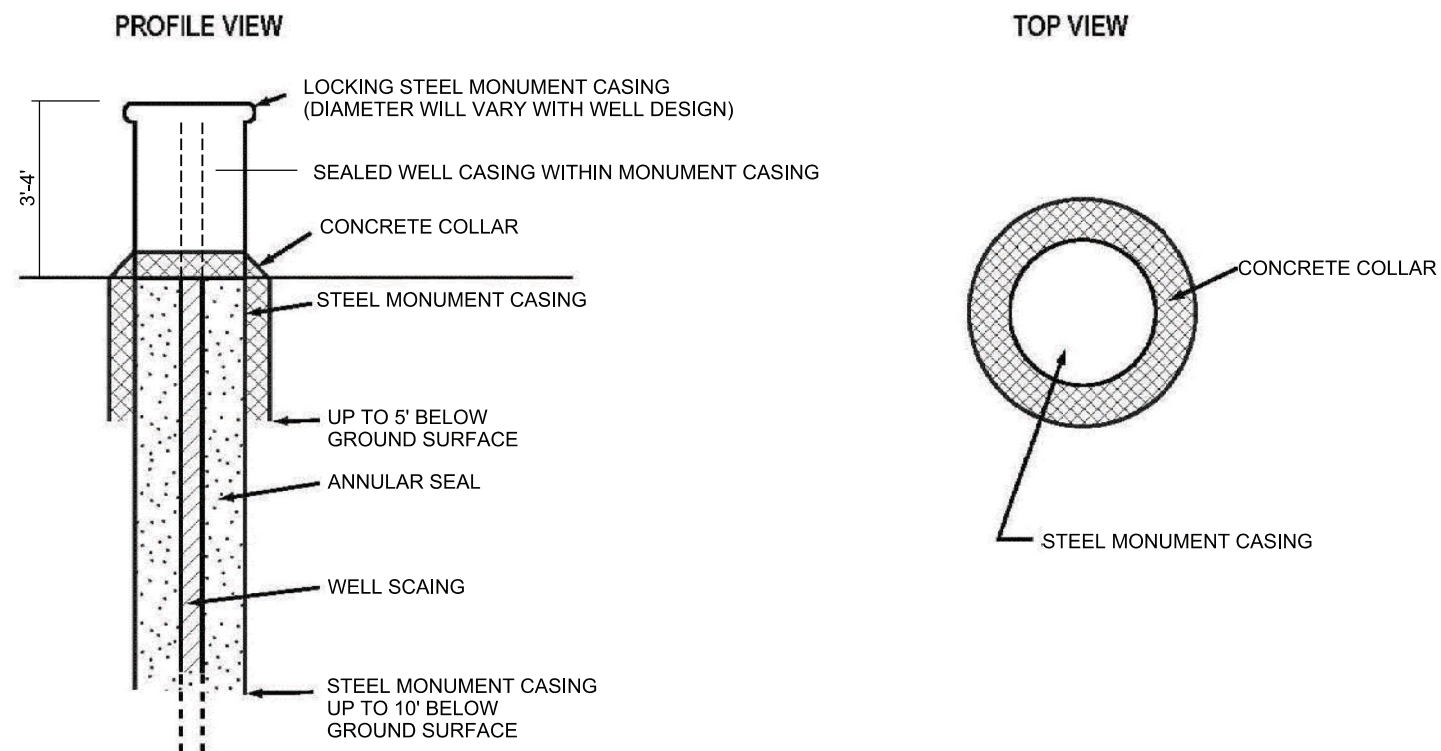
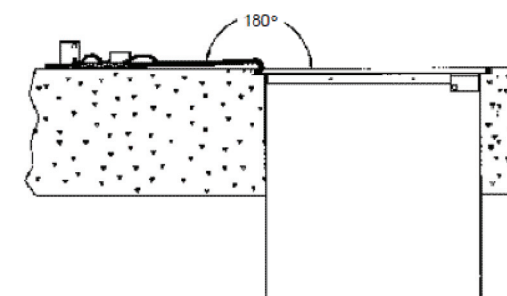


A0717 Square Manholes And Vaults



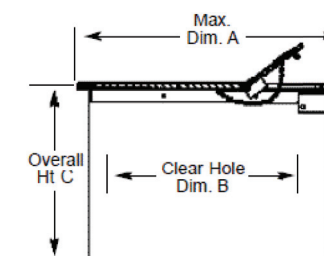
Locking Vault Manholes

- Double hinged lid opens and folds back to 180 degrees
- Lock-access lid permanently fastened with anti-theft chain; stainless steel bolt also permanently attached



All Emco Wheaton Square Manholes

- Fully painted inside and out
- 3/8" heavy duty diamond plate lid
- 16 gauge steel skirt
- Meet AASHTO H20 wheel loading



	Part Number	Style	A	B	C	Weight
18"	A0717-718	Lay-In	20.3"	18.0"	9.6"	66.6 lb
	A0717-718BW	Bolt-Down Water-tight	20.3"	13.8"	9.6"	66.8 lb
	A0717-718ABW	Bolt-Down Water-tight	20.3"	13.8"	16.6"	78.4 lb
	A0717-718VW	Locking Vault Water-tight	20.3"	18.1"	18.6"	78.2 lb
24"	A0717-724	Lay-In	25.0"	22.5"	9.6"	86.0 lb
	A0717-724A	Lay-In	25.0"	22.5"	24.6"	116.5 lb
	A0717-724BW	Bolt-Down Water-tight	25.0"	18.5"	9.6"	86.2 lb
	A0717-724ABW	Bolt-Down Water-tight	25.0"	10.5"	24.6"	116.7 lb
	A0717-724V	Locking Vault	24.9"	21.1"	24.6"	116.5 lb
	A0717-724VW	Locking Vault Water-tight	24.9"	21.1"	24.6"	116.5 lb
	A0717-724VWL	Locking Vault Water-tight	24.9"	21.1"	24.6"	119.5 lb

V = Hinged; B = Bolt-down; W = Water-tight; L = Lift Assist Lid

Emco Wheaton Retail - 2300 Industrial Park Drive - Wilson, North Carolina 27893 - (252) 243-0150

B BELOW GROUND COMPLETION

NOTES:

1. WELL DESIGN AND CASING DIAMETER(S) WILL VARY BY LOCATION. MONUMENT CASING OR VAULT SIZE WILL VARY ACCORDINGLY
2. WELLS WILL BE SEALED AND PROTECTED IN ACCORDANCE WITH CALIFORNIA OR ARIZONA WELL STANDARDS, AS APPROPRIATE.
3. WELL HEAD CONSTRUCTION DETAILS ARE NOT TO SCALE (NTS).

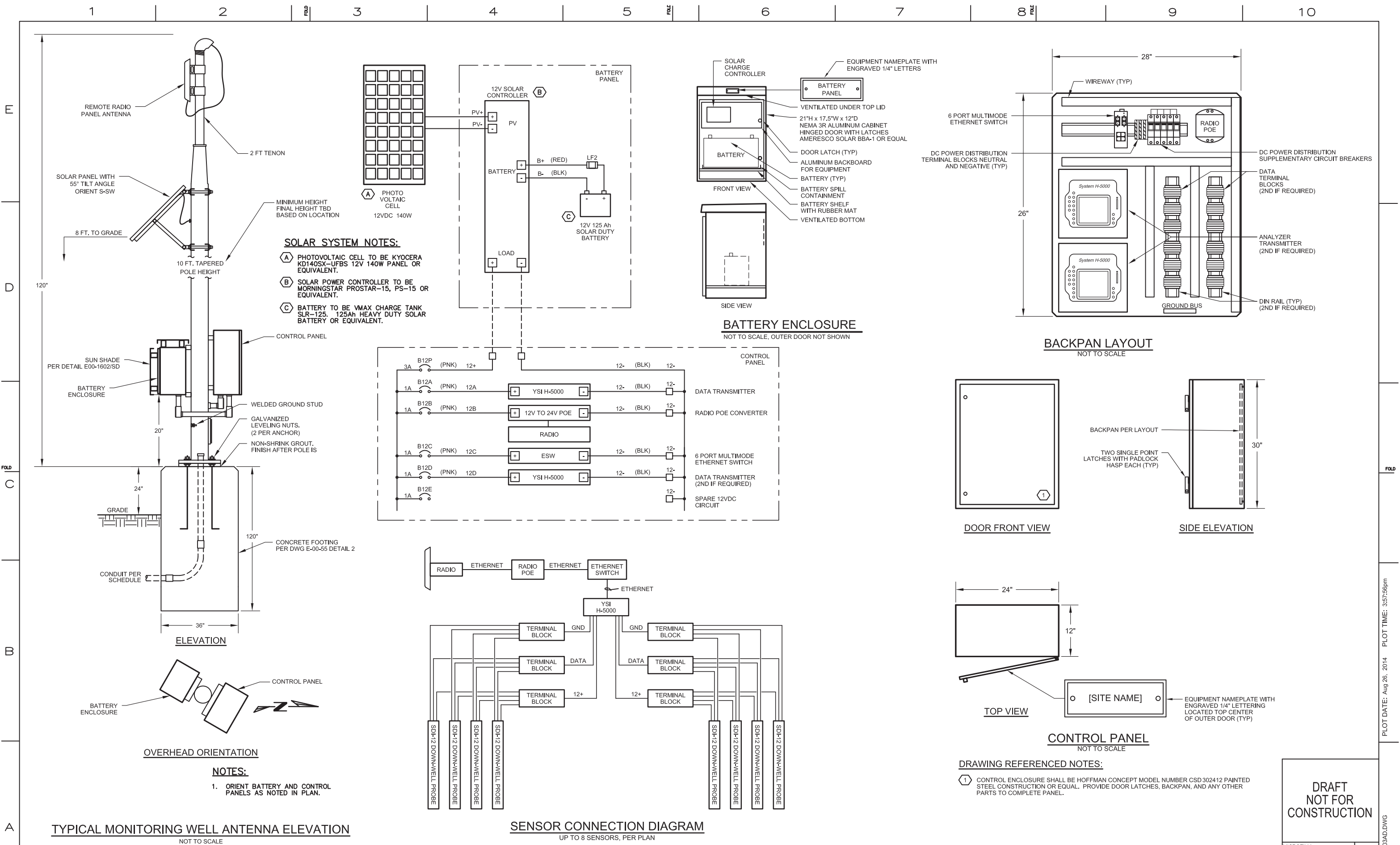
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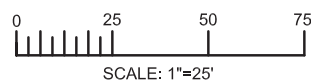
PROPRIETARY
MONITORING WELLS
WELL HEAD DESIGNS

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA


MICROFILM	
BILL OF MATL	
DWG LIST	
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SUPSD BY	
SHEET NO.	of SHEETS
C-16-03	REV 0



4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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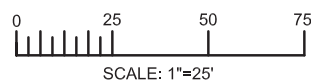
CH2MHILL®[illegible]

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TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 1
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM	
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E-16-04	REV 0

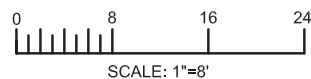
4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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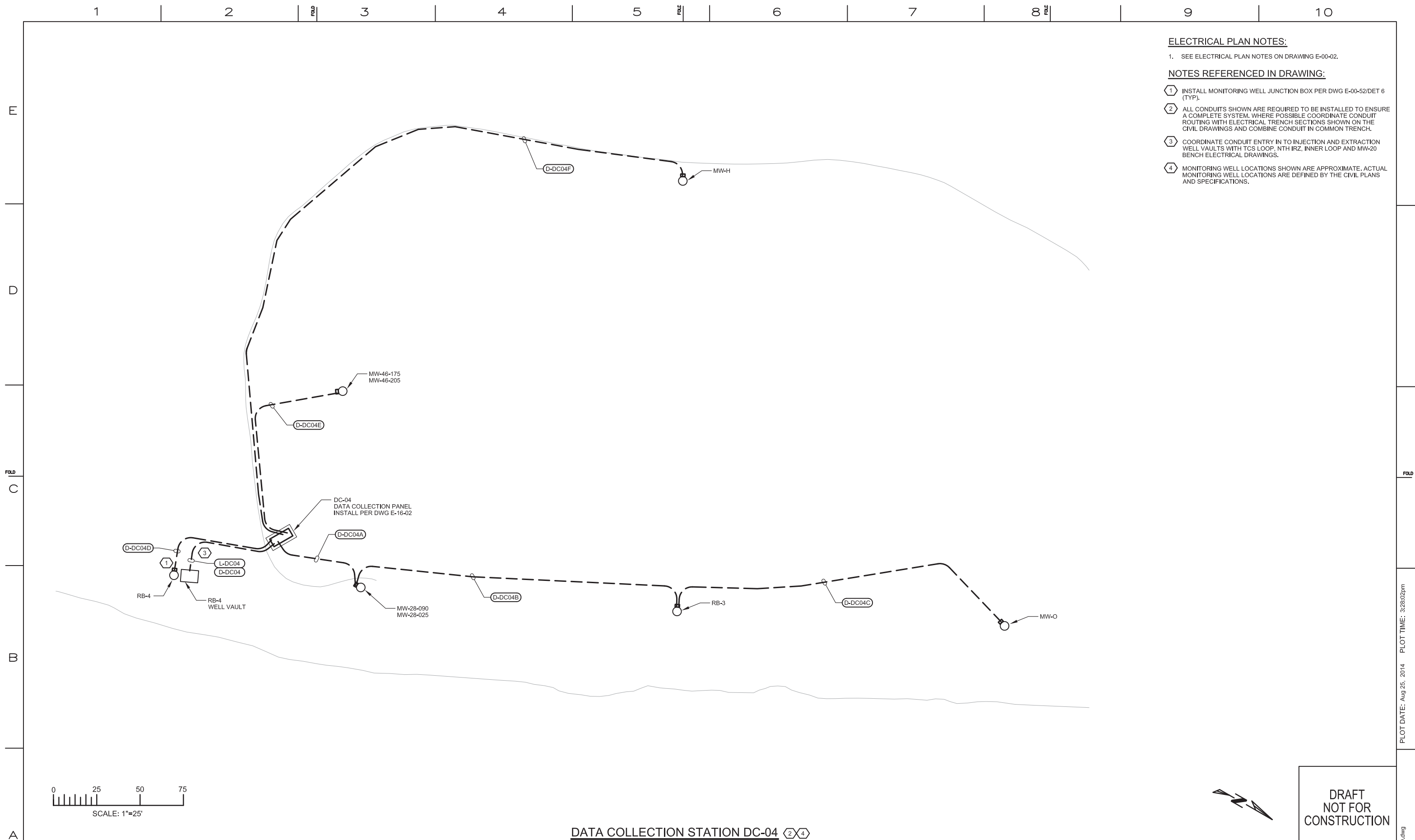
4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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CONSTRUCTION

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SHEET NO.	of	SHEET
E-16-06		REV 0



ELECTRICAL PLAN NOTES:


1. SEE ELECTRICAL PLAN NOTES ON DRAWING E-00-02.

NOTES REFERENCED IN DRAWING:

- 1 INSTALL MONITORING WELL JUNCTION BOX PER DWG E-00-52/DET 6 (TYP).
- 2 ALL CONDUITS SHOWN ARE REQUIRED TO BE INSTALLED TO ENSURE A COMPLETE SYSTEM. WHERE POSSIBLE COORDINATE CONDUIT ROUTING WITH ELECTRICAL TRENCH SECTIONS SHOWN ON THE CIVIL DRAWINGS AND COMBINE CONDUIT IN COMMON TRENCH.
- 3 COORDINATE CONDUIT ENTRY IN TO INJECTION AND EXTRACTION WELL VAULTS WITH TCS LOOP, NTH IRZ, INNER LOOP AND MW-20 BENCH ELECTRICAL DRAWINGS.
- 4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.

DATA COLLECTION STATION DC-04 

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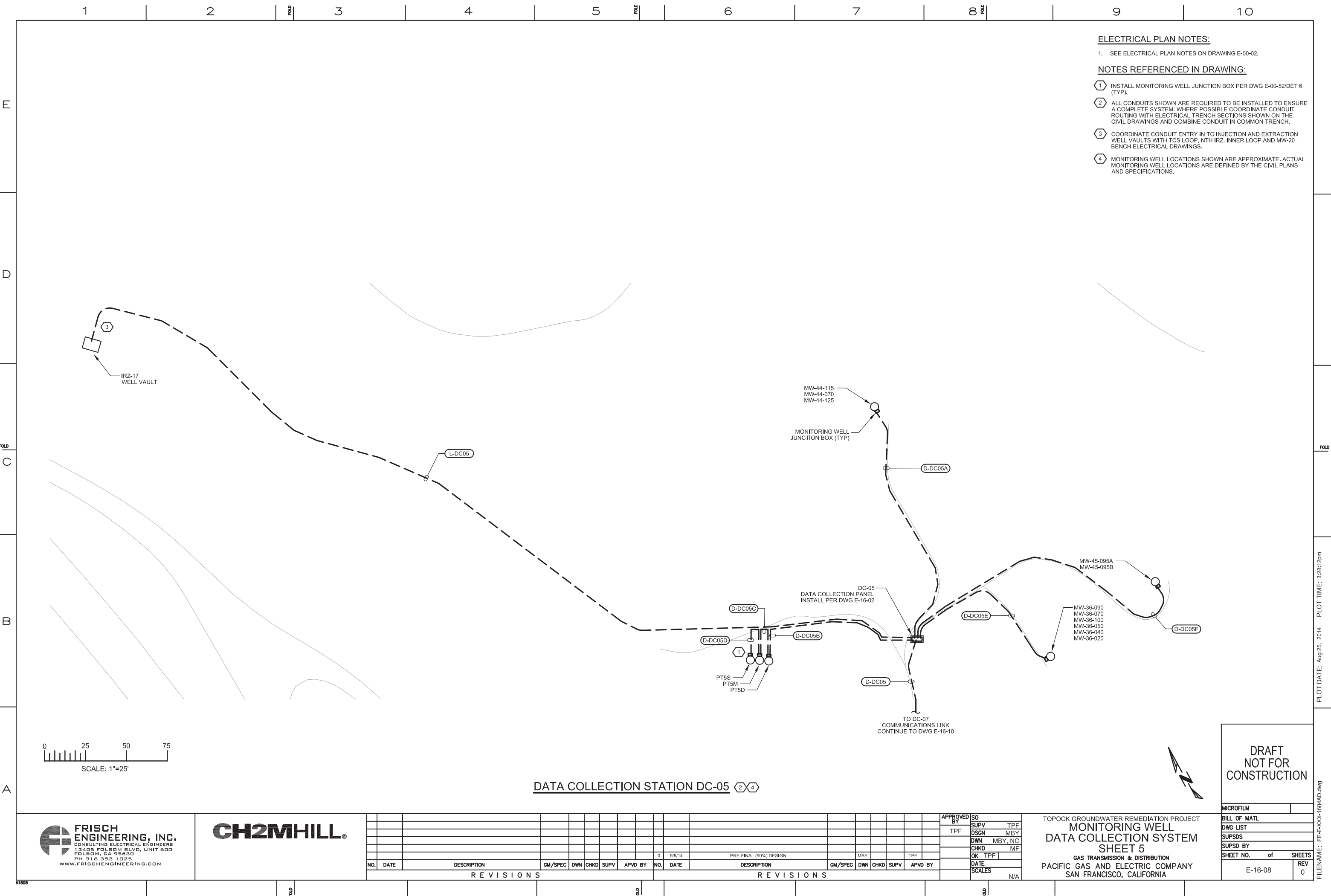
CH2MHILL®[illegible]

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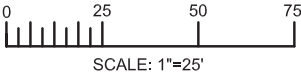
TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 4
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
BILL OF MATL		
DWG LIST		
SUPSDS		
SUPSD BY		
SHEET NO.	of	SHEET
E-16-07		REV 0

[illegible]



- ELECTRICAL PLAN NOTES:**
- SEE ELECTRICAL PLAN NOTES ON DRAWING E-00-02.
- NOTES REFERENCED IN DRAWING:**
- INSTALL MONITORING WELL JUNCTION BOX PER DWG E-00-52/DET 6 (TYP).
 - ALL CONDUITS SHOWN ARE REQUIRED TO BE INSTALLED TO ENSURE A COMPLETE SYSTEM. WHERE POSSIBLE COORDINATE CONDUIT ROUTING WITH ELECTRICAL TRENCH SECTIONS SHOWN ON THE CIVIL DRAWINGS AND COMBINE CONDUIT IN COMMON TRENCH.
 - COORDINATE CONDUIT ENTRY IN TO INJECTION AND EXTRACTION WELL VAULTS WITH TCS LOOP, NTH IRZ, INNER LOOP AND MW-20 BENCH ELECTRICAL DRAWINGS.
 - MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



DATA COLLECTION STATION DC-05

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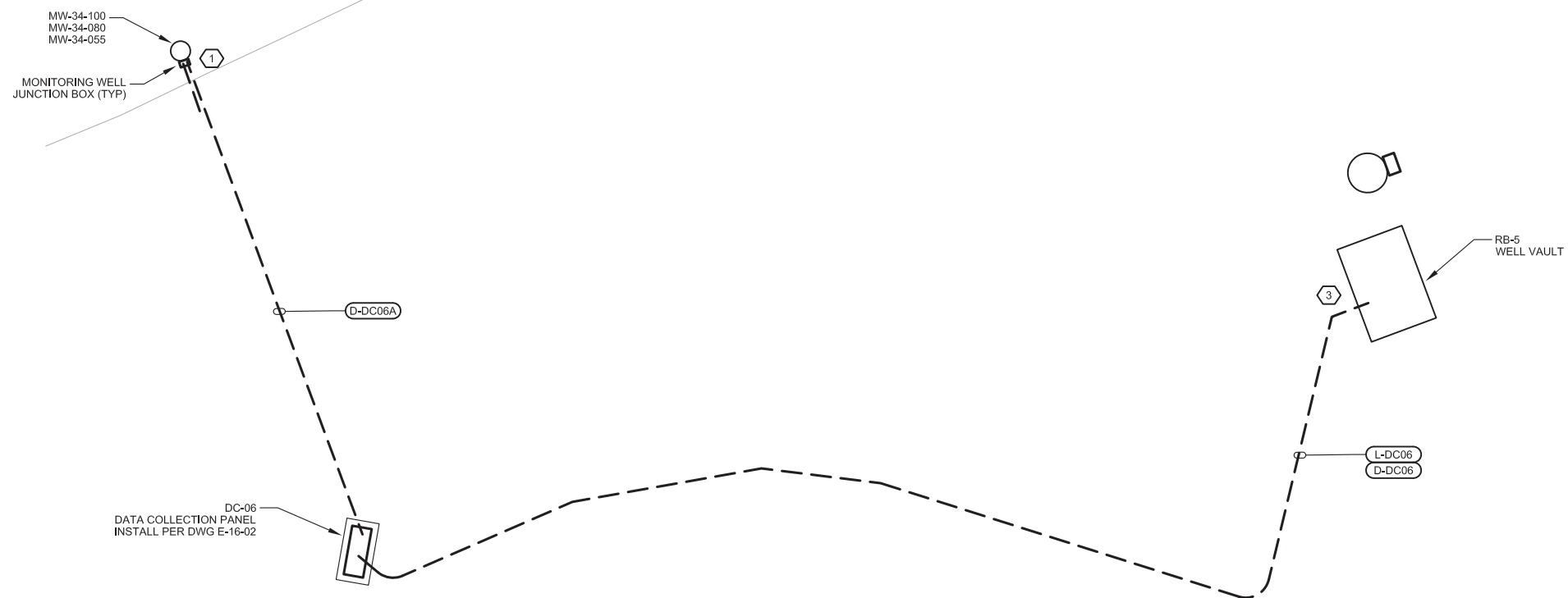
APPROVED BY: TPF

SO: SUPV TPF
DSGN MBY, NC
CHKD MF
OK TPF
DATE
SCALES: N/A

TOPOCK GROUNDWATER REMEDIATION PROJECT
**MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 5**
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

BILL OF MATL	
DWG LIST	
SUPSDS	
SHEET NO. of SHEETS	
E-16-08	REV 0

FILENAME: FE-E-XXX-1604AD.dwg



ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL PLAN NOTES ON DRAWING E-00-02.

- NOTES REFERENCED IN DRAWING:

1. INSTALL MONITORING WELL JUNCTION BOX PER DWG E-00-52/DET 6 (TYP).
2. ALL CONDUITS SHOWN ARE REQUIRED TO BE INSTALLED TO ENSURE A COMPLETE SYSTEM. WHERE POSSIBLE COORDINATE CONDUIT ROUTING WITH ELECTRICAL TRENCH SECTIONS SHOWN ON THE CIVIL DRAWINGS AND COMBINE CONDUIT IN COMMON TRENCH.
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4. MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.


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SCALE: 1"=8'



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DATA COLLECTION STATION DC-06 



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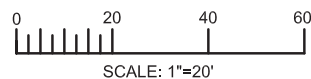
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		SCALES
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TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 6
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
BILL OF MATL		
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E-16-09		REV 0

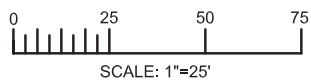
4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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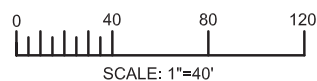
4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.




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4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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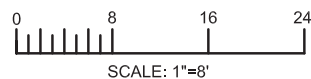
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TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 9
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
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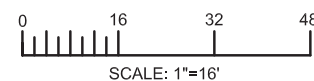
4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



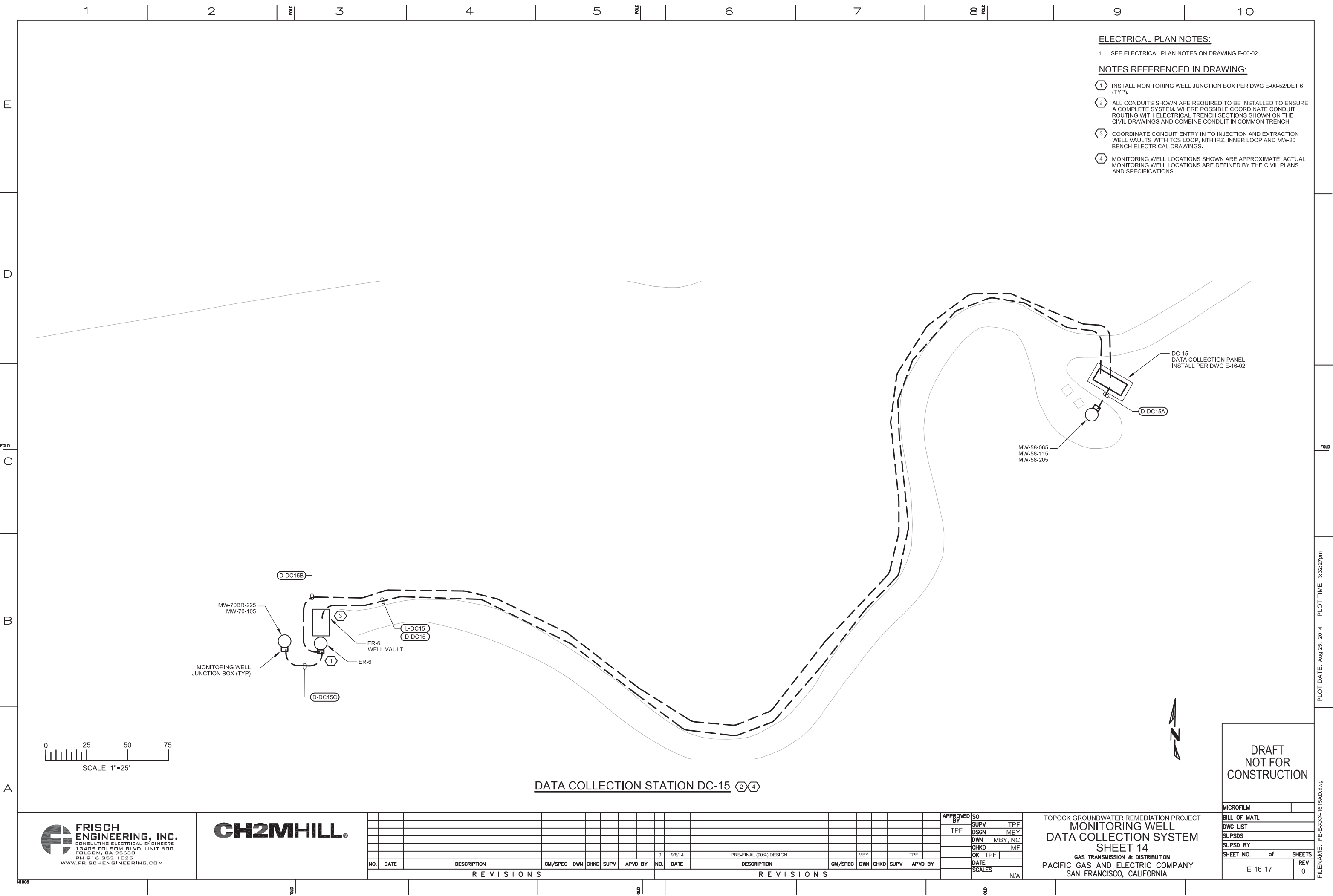
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TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 11
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
BILL OF MATL		
DWG LIST		
SUPSDS		
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SHEET NO.	of	SHEET
E-16-14		REV 0



ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL PLAN NOTES ON DRAWING E-00-02.

NOTES REFERENCED IN DRAWING:

- 1 INSTALL MONITORING WELL JUNCTION BOX PER DWG E-00-52/DET 6 (TYP).
- 2 ALL CONDUITS SHOWN ARE REQUIRED TO BE INSTALLED TO ENSURE A COMPLETE SYSTEM. WHERE POSSIBLE COORDINATE CONDUIT ROUTING WITH ELECTRICAL TRENCH SECTIONS SHOWN ON THE CIVIL DRAWINGS AND COMBINE CONDUIT IN COMMON TRENCH.
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4 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.

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SCALE: 1"=25'



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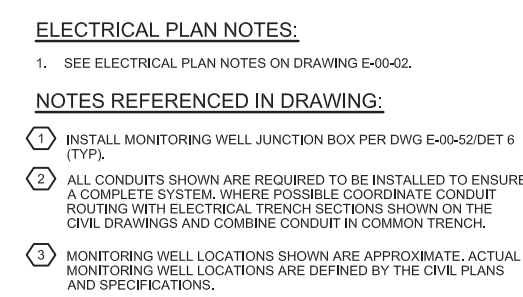
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TOPOCK GROUNDWATER REMEDIATION PROJECT
MONITORING WELL
DATA COLLECTION SYSTEM
SHEET 16
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
BILL OF MATL		
DWG LIST		
SUPSDS		
SUPSD BY		
SHEET NO.	of	SHEET
E-16-19		REV 0



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CONSTRUCTION

FILENAME: FE-E-XXX-1615AD.dwg	PLOT DATE: Aug 25, 2014	PLOT TIME: 3:32:49pm
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3 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.



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MICROFILM	
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DWG LIST	
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E-16-21	REV 0

3 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.

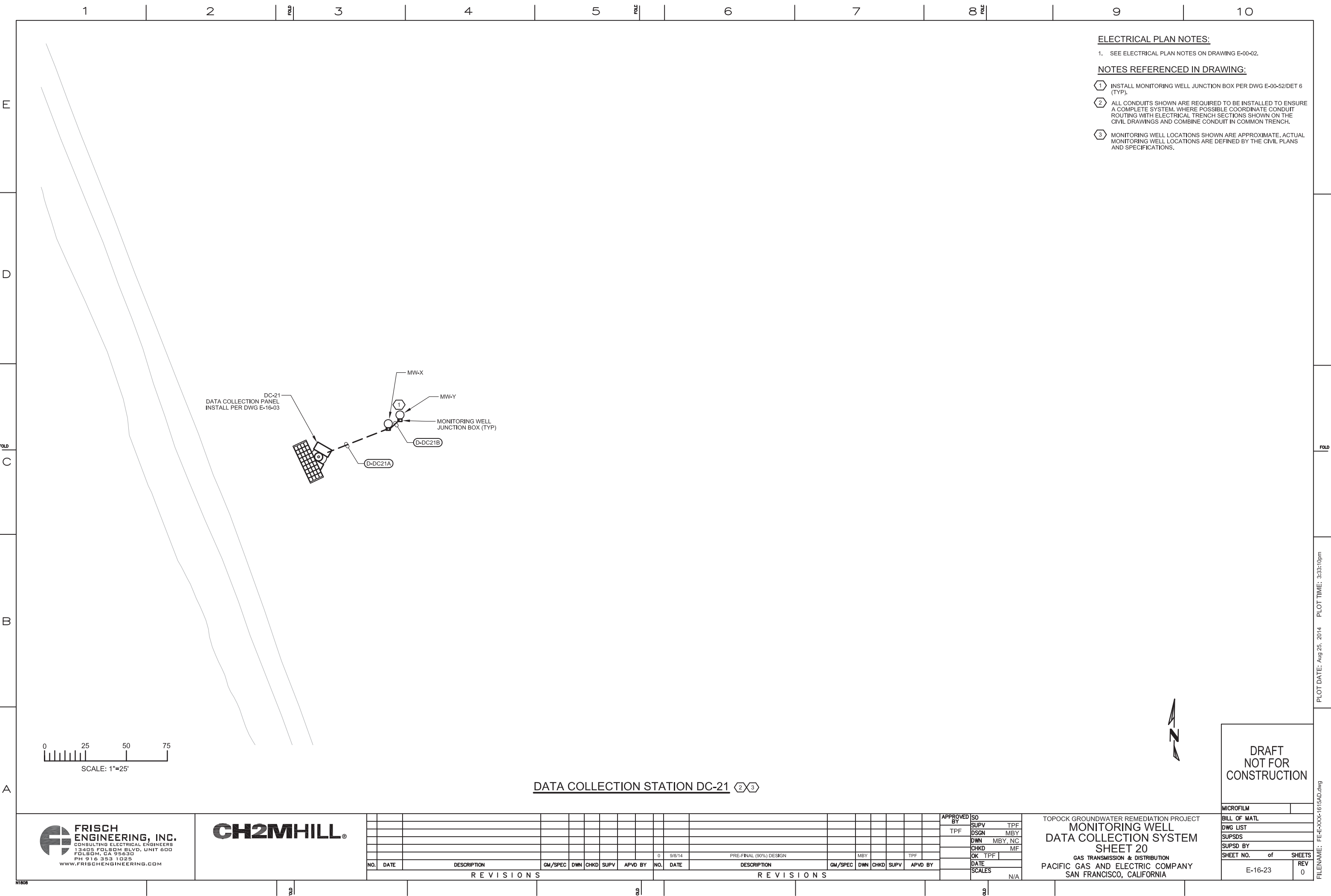


DATA COLLECTION STATION DC-20



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BILL OF MATL		
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SHEET NO.	of	SHEET
E-16-22		REV 0



ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL PLAN NOTES ON DRAWING E-00-02.

NOTES REFERENCED IN DRAWING:

- 1 INSTALL MONITORING WELL JUNCTION BOX PER DWG E-00-52/DET 6 (TYP).
- 2 ALL CONDUITS SHOWN ARE REQUIRED TO BE INSTALLED TO ENSURE A COMPLETE SYSTEM. WHERE POSSIBLE COORDINATE CONDUIT ROUTING WITH ELECTRICAL TRENCH SECTIONS SHOWN ON THE CIVIL DRAWINGS AND COMBINE CONDUIT IN COMMON TRENCH.
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FILENAME: FE-E-XXX-1615AD.dwg PLOT DATE: Aug 25, 2014 PLOT TIME: 3:33:10pm



NATIONAL TRAILS HWY (ROUTE 66)

SCALE: 1"=25'



3 MONITORING WELL LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL MONITORING WELL LOCATIONS ARE DEFINED BY THE CIVIL PLANS AND SPECIFICATIONS.

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MICROFILM		
BILL OF MATL		
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