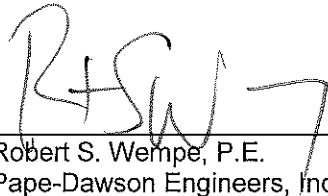


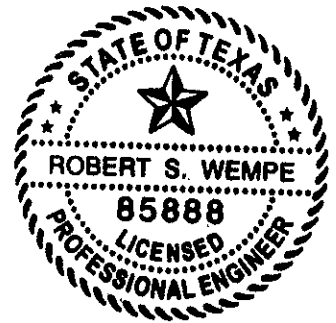
Harris County Municipal Utility District No. 136
July 9 11, 2020 Board Meeting
Engineer's Report

a. **Status of Water Plant Electrical Improvements – Andrew-Jordan Industrial LLC**

Attached is the schedule from the contractor. There should be some field activity starting this month and the completion date is December 28, 2020. The substantial completion date is November 27.

Engineer's Report Prepared by:


Robert S. Wempe, P.E.
Pape-Dawson Engineers, Inc.
TBPE Reg. No. 470



ID	Task Mode	Task Name	Duration	Start	Finish
1		Harris County Mudd 136 WP Electrical Equipment Building	150 days	Mon 6/1/20	Mon 12/28/20
2		Notice To Proceed	0 days	Mon 6/1/20	Mon 6/1/20
3		Submittals	40 days	Tue 6/2/20	Mon 7/27/20
4		Select Fill	10 days	Tue 6/2/20	Mon 6/15/20
5		Reinforcing Steel	10 days	Tue 6/2/20	Mon 6/15/20
6		Structural Concrete	10 days	Tue 6/2/20	Mon 6/15/20
7		Precast Concrete Planks	10 days	Tue 6/2/20	Mon 6/15/20
8		Masonry	10 days	Mon 6/22/20	Fri 7/3/20
9		Roofing	10 days	Mon 6/8/20	Fri 6/19/20
10		Doors & Hardware	10 days	Mon 7/6/20	Fri 7/17/20
11		Protective Coatings	10 days	Mon 7/6/20	Fri 7/17/20
12		HVAC	10 days	Mon 7/6/20	Fri 7/17/20
13		PLC Control Panel	10 days	Mon 6/8/20	Fri 6/19/20
14		Light Fixtures	10 days	Mon 6/8/20	Fri 6/19/20
15		Panelboards	10 days	Mon 6/8/20	Fri 6/19/20
16		Transformers	10 days	Mon 6/8/20	Fri 6/19/20
17		VFD's	10 days	Mon 6/8/20	Fri 6/19/20
18		Disconnect Switches	10 days	Mon 6/8/20	Fri 6/19/20
19		Power Quality Meter	10 days	Mon 6/8/20	Fri 6/19/20
20		Surge Protection Devices	10 days	Mon 6/8/20	Fri 6/19/20
21		Raceways	10 days	Mon 6/8/20	Fri 6/19/20
22		Conductors	10 days	Mon 6/8/20	Fri 6/19/20
23		Power System Study	26 days	Mon 6/22/20	Mon 7/27/20
24		Procurement	60 days	Mon 6/29/20	Fri 9/18/20
25		Select Fill	1 day	Mon 6/29/20	Mon 6/29/20
26		Reinforcing Steel	10 days	Mon 6/29/20	Fri 7/10/20
27		Structural Concrete	5 days	Mon 6/29/20	Fri 7/9/20
28		Precast Concrete Planks	50 days	Mon 6/29/20	Fri 9/4/20
29		Masonry	10 days	Mon 6/29/20	Fri 7/24/20
30		Roofing	10 days	Mon 6/29/20	Fri 7/10/20
31		Doors & Hardware	30 days	Mon 7/27/20	Fri 9/4/20
32		Protective Coatings	5 days	Mon 7/27/20	Fri 7/31/20
33		HVAC	30 days	Mon 7/27/20	Fri 9/4/20
34		PLC Control Panel	60 days	Mon 6/29/20	Fri 9/18/20
35		Light Fixtures	35 days	Mon 6/29/20	Fri 8/14/20
36		Panelboards	45 days	Mon 6/29/20	Fri 8/28/20
37		Transformers	45 days	Mon 6/29/20	Fri 8/28/20
38		VFD's	60 days	Mon 6/29/20	Fri 9/18/20

Project: Harris County Mud 136
Date: Thu 6/1/20

Task Split Milestone Summary

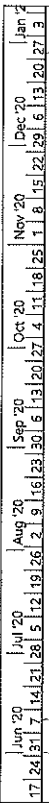
Project Summary Inactive Task Inactive Milestone Inactive Summary

Manual Task Duration-only Manual Summary Rollup Manual Summary

Start-only Finish-only External Tasks External Milestone

Deadline Progress Manual Progress

Andrew-Jordon Industrial LLC



ID	Task Mode	Task Name	Duration	Start	Finish	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Dec 20
39	★	Disconnect Switches	30 days	Mon 6/29/20	Fri 8/7/20							
40	★	Power Quality Meter	30 days	Mon 6/29/20	Fri 8/7/20							
41	★	Surge Protection Devices	30 days	Mon 6/29/20	Fri 8/7/20							
42	★	Raceways	5 days	Mon 6/29/20	Fri 7/3/20							
43	★	Conductors	5 days	Mon 6/29/20	Fri 7/3/20							
44	★	Power System Study	45 days	Mon 6/29/20	Fri 8/28/20							
45	★	Construction	135 days	Mon 6/22/20	Mon 12/28/20							
46	★	Site Work	5 days	Mon 6/22/20	Fri 6/26/20							
47	★	Expand Detention Pond	3 days	Mon 6/22/20	Wed 6/24/20							
48	★	Relocated Gas Line	1 day	Thu 6/25/20	Thu 6/25/20							
49	★	Sawcut & Demo Existing Pavement	1 day	Fri 6/26/20	Fri 6/26/20							
50	★	U/G Duct Banks	41 days	Mon 6/22/20	Mon 8/17/20							
51	★	Install DB-F	12 days	Mon 6/22/20	Tue 7/7/20							
52	★	Install DB-C	10 days	Wed 7/8/20	Tue 7/21/20							
53	★	Install DB-D	12 days	Wed 7/22/20	Thu 8/6/20							
54	★	Install DB-E	7 days	Fri 8/7/20	Mon 8/17/20							
55	★	Electrical Building	43 days	Tue 6/30/20	Thu 8/27/20							
56	★	Cut Grade Beams/Select Fill	3 days	Tue 6/30/20	Thu 7/2/20							
57	★	Set Forms	3 days	Fri 7/3/20	Tue 7/7/20							
58	★	Electrical Rough-In	5 days	Wed 7/8/20	Tue 7/14/20							
59	★	Install Rebar	3 days	Wed 7/15/20	Fri 7/17/20							
60	★	Pour Concrete	1 day	Mon 7/20/20	Mon 7/20/20							
61	★	Receive Doors & Frames	0 days	Tue 7/21/20	Tue 7/21/20							
62	★	Masonry	10 days	Tue 7/21/20	Mon 8/3/20							
63	★	House Keeping Pad	2 days	Tue 8/4/20	Wed 8/5/20							
64	★	Roofing	7 days	Thu 8/6/20	Fri 8/14/20							
65	★	Protective cCoatings	5 days	Mon 8/17/20	Fri 8/21/20							
66	★	Door Hardware and Glass	1 day	Mon 8/24/20	Mon 8/24/20							
67	★	HVAC System	3 days	Tue 8/25/20	Thu 8/27/20							
68	★	Electrical	33 days	Mon 8/24/20	Wed 10/7/20							
69	★	Install grounding	3 days	Mon 8/24/20	Wed 8/26/20							
70	★	Install Service	5 days	Thu 8/27/20	Wed 9/2/20							
71	★	Install Switchgear and Light Fixtures	7 days	Thu 9/3/20	Fri 9/11/20							
72	★	Install Raceway/Wire for Switchgear and PLC	7 days	Mon 9/14/20	Tue 9/22/20							
73	★	Install power and lighting raceway/wire	7 days	Wed 9/23/20	Thu 10/1/20							
74	★	Install HVAC raceway/wire	4 days	Fri 10/2/20	Wed 10/7/20							
75	★	Existing Control Building	14 days	Thu 10/8/20	Tue 10/27/20							
76	★	Demo existing equipment	3 days	Thu 10/8/20	Mon 10/12/20							

Project: Harris County Mud 136
Date: Thu 6/11/20

Task: Task Project Summary Inactive Task Inactive Milestone Inactive Summary

Milestone: Milestone Summary

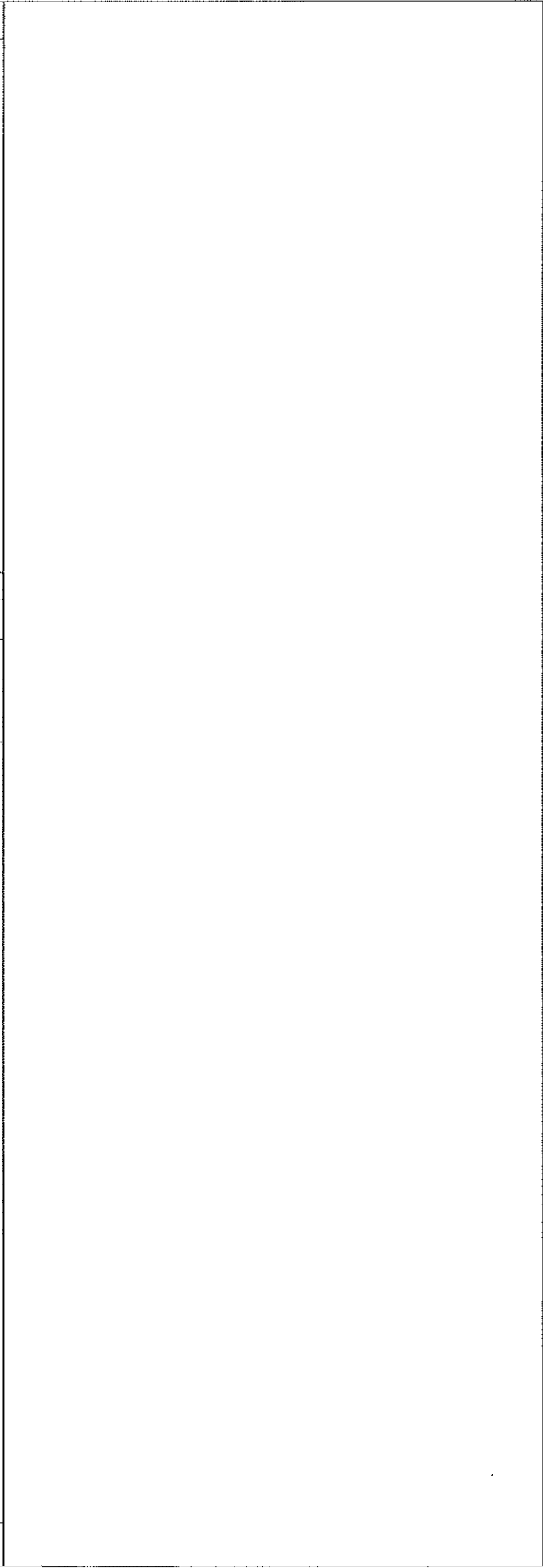
Manual Task: Manual Task Duration-only Manual Summary Rollup Manual Summary

Start-only: Start-only Finish-only External Tasks External Milestone

Deadline: Deadline Progress Manual Progress

Andrew-Jordon Industrial LLC

ID	Task Mode	Task Name	Duration	Start	Finish
77	✖	Install new Panel LV4	1 day	Tue 10/13/20	Tue 10/13/20
78	✖	Install Lights	1 day	Wed 10/14/20	Wed 10/14/20
79	✖	Install raceway/wire to LV3 and LV4	5 days	Thu 10/15/20	Wed 10/21/20
80	✖	Install raceway/wire to solenoid valve	2 days	Thu 10/22/20	Fri 10/23/20
81	✖	Install raceway/wire for lights	2 days	Mon 10/26/20	Tue 10/27/20
82	✖	Site Electrical Work	43 days	Wed 10/28/20	Mon 12/28/20
83	✖	Install raceway/wire to GST-1 Level Transmitter	2 days	Wed 10/28/20	Thu 10/29/20
84	✖	Install raceway/wire to GST-2 Level Transmitter	2 days	Fri 10/30/20	Mon 11/2/20
85	✖	Install raceway/wire for Pressure Tank-1 and 2	2 days	Tue 11/3/20	Wed 11/4/20
86	✖	Install raceway/wire for Booster Pumps	7 days	Thu 11/5/20	Fri 11/13/20
87	✖	Install raceway/wire for pressure transmitter	2 days	Mon 11/16/20	Tue 11/17/20
88	✖	Substantial Completion	0 days	Fri 11/27/20	Fri 11/27/20
89	✖	Final Completion	0 days	Mon 12/28/20	Mon 12/28/20



Project: Harris County Mud 136
Date: Thu 6/17/20

Task: Milestone Summary

Project Summary: Project Summary, Inactive Task, Inactive Milestone, Inactive Summary

Manual Task: Manual Task, Manual Summary Rollup, Manual Summary

Start-only: Start-only, External Milestone

Finish-only: Finish-only, External Milestone

External Tasks: External Tasks, External Milestone

Deadline: Deadline, Progress, Manual Progress

Andrew-Jordan Industrial LLC