

Bakersfield to Palmdale

COMPOSITE UTILITY PLANS
RECORD SET PEPD
DESIGN SUBMISSION
January 2021



GENERAL SHEETS

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
1		COVER SHEET
2	UT-B0001	INDEX SHEETS (SHEET 1 OF 4)
3	UT-B0002	INDEX SHEETS (SHEET 2 OF 4)
4	UT-B0003	INDEX SHEETS (SHEET 3 OF 4)
5	UT-B0004	INDEX SHEETS (SHEET 4 OF 4)
6	UT-B0005	ABBREVIATIONS AND LEGEND
7	UT-B0006	GENERAL NOTES AND UTILITY OWNERS
8	UT-B0007	UTILITY CROSSING DETAIL
9	UT-B0008	ALTERNATIVE 1 - KEY MAP (SHEET 1 OF 7)
10	UT-B0009	ALTERNATIVE 1 - KEY MAP (SHEET 2 OF 7)
11	UT-B0010	ALTERNATIVE 1 - KEY MAP (SHEET 3 OF 7)
12	UT-B0011	ALTERNATIVE 1 - KEY MAP (SHEET 4 OF 7)
13	UT-B0012	ALTERNATIVE 1 - KEY MAP (SHEET 5 OF 7)
14	UT-B0013	ALTERNATIVE 1 - KEY MAP (SHEET 6 OF 7)
15	UT-B0014	ALTERNATIVE 1 - KEY MAP (SHEET 7 OF 7)
16	UT-B0015	ALTERNATIVE 2 - KEY MAP (SHEET 1 OF 1)
17	UT-B0025	ALTERNATIVE 3 - KEY MAP (SHEET 1 OF 2)
18	UT-B0026	ALTERNATIVE 3 - KEY MAP (SHEET 2 OF 2)
19	UT-B0034	ALTERNATIVE 5 - KEY MAP (SHEET 1 OF 2)
20	UT-B0035	ALTERNATIVE 5 - KEY MAP (SHEET 2 OF 2)

ALTERNATIVE 1

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
21	UT-C4001	ALTERNATIVE 1,3,5 - STA 17285+00 TO 17310+00
22	UT-C4002	ALTERNATIVE 1,3,5 - STA 17310+00 TO 17335+00
23	UT-C4003	ALTERNATIVE 1,3,5 - STA 17335+00 TO 17360+00
24	UT-C4004	ALTERNATIVE 1,3,5 - STA 17360+00 TO 17385+00
25	UT-C4005	ALTERNATIVE 1,3,5 - STA 17385+00 TO 17410+00
26	UT-C4006	ALTERNATIVE 1,3,5 - STA 17410+00 TO 17435+00
27	UT-C4007	ALTERNATIVE 1,3,5 - STA 17435+00 TO 17460+00
28	UT-C4008	ALTERNATIVE 1,3,5 - STA 17460+00 TO 17485+00
29	UT-C4009	ALTERNATIVE 1,3,5 - STA 17485+00 TO 17510+00
30	UT-C4010	ALTERNATIVE 1,3,5 - STA 17510+00 TO 17535+00
31	UT-C4011	ALTERNATIVE 1,3,5 - STA 17535+00 TO 17560+00
32	UT-C4012	ALTERNATIVE 1,3,5 - STA 17560+00 TO 17585+00
33	UT-C4013	ALTERNATIVE 1,3,5 - STA 17585+00 TO 17610+00
34	UT-C4014	ALTERNATIVE 1,3,5 - STA 17610+00 TO 17635+00
35	UT-C4015	ALTERNATIVE 1,3,5 - STA 17635+00 TO 17660+00
36	UT-C4016	ALTERNATIVE 1,3,5 - STA 17660+00 TO 17685+00
37	UT-C4017	ALTERNATIVE 1,3,5 - STA 17685+00 TO 17710+00

ALTERNATIVE 1 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
38	UT-C4018	ALTERNATIVE 1,3,5 - STA 17710+00 TO 17735+00
39	UT-C4019	ALTERNATIVE 1,3,5 - STA 17735+00 TO 17760+00
40	UT-C4020	ALTERNATIVE 1,3,5 - STA 17760+00 TO 17785+00
41	UT-C4021	ALTERNATIVE 1,3,5 - STA 17785+00 TO 17810+00
42	UT-C4022	ALTERNATIVE 1,3,5 - STA 17810+00 TO 17835+00
43	UT-C4023	ALTERNATIVE 1,3,5 - STA 17835+00 TO 17860+00
44	UT-C4024	ALTERNATIVE 1,3,5 - STA 17860+00 TO 17885+00
45	UT-C4025	ALTERNATIVE 1,3,5 - STA 17885+00 TO 17910+00
46	UT-C4026	ALTERNATIVE 1,2,3,5 - STA 17910+00 TO 17935+00
47	UT-C4027	ALTERNATIVE 1,2,3,5 - STA 17935+00 TO 17960+00
48	UT-C4028	ALTERNATIVE 1,2,3,5 - STA 17960+00 TO 17985+00
49	UT-C4029	ALTERNATIVE 1,2,3,5 - STA 17985+00 TO 18010+00
50	UT-C4030	ALTERNATIVE 1,2,3,5 - STA 18010+00 TO 18035+00
51	UT-C4031	ALTERNATIVE 1,2,3,5 - STA 18035+00 TO 18060+00
52	UT-C4032	ALTERNATIVE 1,2,3,5 - STA 18060+00 TO 18085+00
53	UT-C4033	ALTERNATIVE 1,2,3,5 - STA 18085+00 TO 18110+00
54	UT-C4034	ALTERNATIVE 1,2,3,5 - STA 18110+00 TO 18135+00
55	UT-C4035	ALTERNATIVE 1,2,3,5 - STA 18135+00 TO 18160+00
56	UT-C4036	ALTERNATIVE 1,2,3,5 - STA 18160+00 TO 18185+00
57	UT-C4037	ALTERNATIVE 1,2,3,5 - STA 18185+00 TO 18210+00
58	UT-C4038	ALTERNATIVE 1,2,3,5 - STA 18210+00 TO 18235+00
59	UT-C4039	ALTERNATIVE 1,2,3,5 - STA 18235+00 TO 18260+00
60	UT-C4040	ALTERNATIVE 1,2,3,5 - STA 18260+00 TO 18285+00
61	UT-C4041	ALTERNATIVE 1,2,3,5 - STA 18285+00 TO 18310+00
62	UT-C4042	ALTERNATIVE 1,2,3,5 - STA 18310+00 TO 18335+00
63	UT-C4043	ALTERNATIVE 1,2,3,5 - STA 18335+00 TO 18360+00
64	UT-C4044	ALTERNATIVE 1,2,3,5 - STA 18360+00 TO 18385+00
65	UT-C4045	ALTERNATIVE 1,2,3,5 - STA 18385+00 TO 18410+00
66	UT-C4046	ALTERNATIVE 1,2,3,5 - STA 18410+00 TO 18435+00
67	UT-C4047	ALTERNATIVE 1,2,3,5 - STA 18435+00 TO 18460+00
68	UT-C4048	ALTERNATIVE 1,2,3,5 - STA 18460+00 TO 18485+00
69	UT-C4049	ALTERNATIVE 1,2,3,5 - STA 18485+00 TO 18510+00
70	UT-C4050	ALTERNATIVE 1,2,3,5 - STA 18510+00 TO 18535+00
71	UT-C4051	ALTERNATIVE 1,2,3,5 - STA 18535+00 TO 18560+00
72	UT-C4052	ALTERNATIVE 1,2,3,5 - STA 18560+00 TO 18585+00
73	UT-C4053	ALTERNATIVE 1,2,3,5 - STA 18585+00 TO 18610+00
74	UT-C4054	ALTERNATIVE 1,2,3,5 - STA 18610+00 TO 18635+00
75	UT-C4055	ALTERNATIVE 1,2,3,5 - STA 18635+00 TO 18660+00
76	UT-C4056	ALTERNATIVE 1,2,3,5 - STA 18660+00 TO 18685+00
77	UT-C4057	ALTERNATIVE 1,2,3,5 - STA 18685+00 TO 18710+00
78	UT-C4058	ALTERNATIVE 1,2,3,5 - STA 18710+00 TO 18735+00
79	UT-C4059	ALTERNATIVE 1,2,3,5 - STA 18735+00 TO 18760+00
80	UT-C4060	ALTERNATIVE 1,2,3,5 - STA 18760+00 TO 18785+00
81	UT-C4061	ALTERNATIVE 1,2,3,5 - STA 18785+00 TO 18810+00
82	UT-C4062	ALTERNATIVE 1,2,3,5 - STA 18810+00 TO 18835+00
83	UT-C4063	ALTERNATIVE 1,2,3,5 - STA 18835+00 TO 18860+00
84	UT-C4064	ALTERNATIVE 1,2,3,5 - STA 18860+00 TO 18885+00
85	UT-C4065	ALTERNATIVE 1,2,3,5 - STA 18885+00 TO 18910+00
86	UT-C4066	ALTERNATIVE 1,2,3,5 - STA 18910+00 TO 18935+00
87	UT-C4067	ALTERNATIVE 1,2,3,5 - STA 18935+00 TO 18960+00
88	UT-C4068	ALTERNATIVE 1,2,3,5 - STA 18960+00 TO 18985+00
89	UT-C4069	ALTERNATIVE 1,2,3,5 - STA 18985+00 TO 19010+00
90	UT-C4070	ALTERNATIVE 1,2,3,5 - STA 19010+00 TO 19035+00
91	UT-C4071	ALTERNATIVE 1,2,3,5 - STA 19035+00 TO 19060+00
92	UT-C4072	ALTERNATIVE 1,2,3,5 - STA 19060+00 TO 19085+00
93	UT-C4073	ALTERNATIVE 1,2,3,5 - STA 19085+00 TO 19110+00
94	UT-C4074	ALTERNATIVE 1,2,3,5 - STA 19110+00 TO 19135+00
95	UT-C4075	ALTERNATIVE 1,2,3,5 - STA 19135+00 TO 19160+00

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\UT_BP-UT-B0001

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1/20/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. HOLMAN
DRAWN BY
J. LOPEZ
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
GENERAL
INDEX SHEETS
SHEET 1 OF 4

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0001
SCALE
NTS
SHEET NO.
2

ALTERNATIVE 1 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
96	UT-C4076	ALTERNATIVE 1,2,3,5 - STA 19160+00 TO 19185+00
97	UT-C4077	ALTERNATIVE 1,2,3,5 - STA 19185+00 TO 19210+00
98	UT-C4078	ALTERNATIVE 1,2,3,5 - STA 19210+00 TO 19235+00
99	UT-C4079	ALTERNATIVE 1,2,3,5 - STA 19235+00 TO 19260+00
100	UT-C4080	ALTERNATIVE 1,2,3,5 - STA 19260+00 TO 19285+00
101	UT-C4081	ALTERNATIVE 1,2,5 - STA 19285+00 TO 19310+00
102	UT-C4082	ALTERNATIVE 1,2,5 - STA 19310+00 TO 19335+00
103	UT-C4083	ALTERNATIVE 1,2,5 - STA 19335+00 TO 19360+00
104	UT-C4084	ALTERNATIVE 1,2,5 - STA 19360+00 TO 19385+00
105	UT-C4085	ALTERNATIVE 1,2,5 - STA 19385+00 TO 19410+00
106	UT-C4086	ALTERNATIVE 1,2,5 - STA 19410+00 TO 19435+00
107	UT-C4087	ALTERNATIVE 1,2,5 - STA 19435+00 TO 19460+00
108	UT-C4088	ALTERNATIVE 1,2,5 - STA 19460+00 TO 19485+00
109	UT-C4089	ALTERNATIVE 1,2,5 - STA 19485+00 TO 19510+00
110	UT-C4090	ALTERNATIVE 1,2,5 - STA 19510+00 TO 19535+00
111	UT-C4091	ALTERNATIVE 1,2,5 - STA 19535+00 TO 19560+00
112	UT-C4092	ALTERNATIVE 1,2,5 - STA 19560+00 TO 19585+00
113	UT-C4093	ALTERNATIVE 1,2,5 - STA 19585+00 TO 19610+00
114	UT-C4094	ALTERNATIVE 1,2,5 - STA 19610+00 TO 19635+00
115	UT-C4095	ALTERNATIVE 1,2,5 - STA 19635+00 TO 19660+00
116	UT-C4096	ALTERNATIVE 1,2,5 - STA 19660+00 TO 19685+00
117	UT-C4097	ALTERNATIVE 1,2,5 - STA 19685+00 TO 19710+00
118	UT-C4098	ALTERNATIVE 1,2,5 - STA 19710+00 TO 19735+00
119	UT-C4099	ALTERNATIVE 1,2,5 - STA 19735+00 TO 19760+00
120	UT-C4100	ALTERNATIVE 1,2,5 - STA 19760+00 TO 19785+00
121	UT-C4101	ALTERNATIVE 1,2,5 - STA 19785+00 TO 19810+00
122	UT-C4102	ALTERNATIVE 1,2,5 - STA 19810+00 TO 19835+00
123	UT-C4103	ALTERNATIVE 1,2,5 - STA 19835+00 TO 19860+00
124	UT-C4104	ALTERNATIVE 1,2,5 - STA 19860+00 TO 19885+00
125	UT-C4105	ALTERNATIVE 1,2,5 - STA 19885+00 TO 19910+00
126	UT-C4106	ALTERNATIVE 1,2,5 - STA 19910+00 TO 19935+00
127	UT-C4107	ALTERNATIVE 1,2,5 - STA 19935+00 TO 19960+00
128	UT-C4108	ALTERNATIVE 1,2,5 - STA 19960+00 TO 19985+00
129	UT-C4109	ALTERNATIVE 1,2,5 - STA 19985+00 TO 20010+00
130	UT-C4110	ALTERNATIVE 1,2,5 - STA 20010+00 TO 20035+00
131	UT-C4111	ALTERNATIVE 1,2,3,5 - STA 20035+00 TO 20060+00
132	UT-C4112	ALTERNATIVE 1,2,3,5 - STA 20060+00 TO 20085+00
133	UT-C4113	ALTERNATIVE 1,2,3,5 - STA 20085+00 TO 20110+00
134	UT-C4114	ALTERNATIVE 1,2,3,5 - STA 20110+00 TO 20135+00
135	UT-C4115	ALTERNATIVE 1,2,3,5 - STA 20135+00 TO 20160+00
136	UT-C4116	ALTERNATIVE 1,2,3,5 - STA 20160+00 TO 20185+00
137	UT-C4117	ALTERNATIVE 1,2,3,5 - STA 20185+00 TO 20210+00
138	UT-C4118	ALTERNATIVE 1,2,3,5 - STA 20210+00 TO 20235+00
139	UT-C4119	ALTERNATIVE 1,2,3,5 - STA 20235+00 TO 20260+00
140	UT-C4120	ALTERNATIVE 1,2,3,5 - STA 20260+00 TO 20285+00
141	UT-C4121	ALTERNATIVE 1,2,3,5 - STA 20285+00 TO 20310+00
142	UT-C4122	ALTERNATIVE 1,2,3,5 - STA 20310+00 TO 20335+00
143	UT-C4123	ALTERNATIVE 1,2,3,5 - STA 20335+00 TO 20360+00
144	UT-C4124	ALTERNATIVE 1,2,3,5 - STA 20360+00 TO 20385+00
145	UT-C4125	ALTERNATIVE 1,2,3,5 - STA 20385+00 TO 20410+00
146	UT-C4126	ALTERNATIVE 1,2,3,5 - STA 20410+00 TO 20435+00
147	UT-C4127	ALTERNATIVE 1,2,3,5 - STA 20435+00 TO 20460+00
148	UT-C4128	ALTERNATIVE 1,2,3,5 - STA 20460+00 TO 20485+00
149	UT-C4129	ALTERNATIVE 1,2,3,5 - STA 20485+00 TO 20510+00
150	UT-C4130	ALTERNATIVE 1,2,3,5 - STA 20510+00 TO 20535+00
151	UT-C4131	ALTERNATIVE 1,2,3,5 - STA 20535+00 TO 20560+00
152	UT-C4132	ALTERNATIVE 1,2,3,5 - STA 20560+00 TO 20585+00
153	UT-C4133	ALTERNATIVE 1,2,3,5 - STA 20585+00 TO 20610+00

ALTERNATIVE 1 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
154	UT-C4134	ALTERNATIVE 1,2,3,5 - STA 20610+00 TO 20635+00
155	UT-C4135	ALTERNATIVE 1,2,3,5 - STA 20635+00 TO 20660+00
156	UT-C4136	ALTERNATIVE 1,2,3,5 - STA 20660+00 TO 20685+00
157	UT-C4137	ALTERNATIVE 1,2,3,5 - STA 20685+00 TO 20710+00
158	UT-C4138	ALTERNATIVE 1,2,3,5 - STA 20710+00 TO 20735+00
159	UT-C4139	ALTERNATIVE 1,2,3 - STA 20735+00 TO 20760+00
160	UT-C4140	ALTERNATIVE 1,2,3 - STA 20760+00 TO 20785+00
161	UT-C4141	ALTERNATIVE 1,2,3 - STA 20785+00 TO 20810+00
162	UT-C4142	ALTERNATIVE 1,2,3 - STA 20810+00 TO 20835+00
163	UT-C4143	ALTERNATIVE 1,2,3 - STA 20835+00 TO 20860+00
164	UT-C4144	ALTERNATIVE 1,2,3 - STA 20860+00 TO 20885+00
165	UT-C4145	ALTERNATIVE 1,2,3 - STA 20885+00 TO 20910+00
166	UT-C4146	ALTERNATIVE 1,2,3 - STA 20910+00 TO 20935+00
167	UT-C4147	ALTERNATIVE 1,2,3 - STA 20935+00 TO 20960+00
168	UT-C4148	ALTERNATIVE 1,2,3 - STA 20960+00 TO 20985+00
169	UT-C4149	ALTERNATIVE 1,2,3 - STA 20985+00 TO 21010+00
170	UT-C4150	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
171	UT-C4151	ALTERNATIVE 1,2,3 - STA 21035+00 TO 21060+00
172	UT-C4152	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
173	UT-C4153	ALTERNATIVE 1,2,3 - STA 21085+00 TO 21110+00
174	UT-C4154	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
175	UT-C4155	ALTERNATIVE 1,2,3 - STA 21135+00 TO 21160+00
176	UT-C4156	ALTERNATIVE 1,2,3 - STA 21160+00 TO 21185+00
177	UT-C4157	ALTERNATIVE 1,2,3 - STA 21185+00 TO 21210+00
178	UT-C4158	ALTERNATIVE 1,2,3 - STA 21210+00 TO 21235+00
179	UT-C4159	ALTERNATIVE 1,2,3 - STA 19460+00 TO 19485+00
180	UT-C4201	ALTERNATIVE 1,2,3 - STA 20785+00 TO 20810+00
181	UT-C4202	ALTERNATIVE 1,2,3 - STA 20785+00 TO 20810+00
182	UT-C4203	ALTERNATIVE 1,2,3 - STA 20835+00 TO 20885+00
183	UT-C4204	ALTERNATIVE 1,2,3 - STA 20835+00 TO 20885+00
184	UT-C4205	ALTERNATIVE 1,2,3 - STA 20835+00 TO 20885+00
185	UT-C4206	ALTERNATIVE 1,2,3 - STA 20910+00 TO 20935+00
186	UT-C4207	ALTERNATIVE 1,2,3 - STA 20910+00 TO 20935+00
187	UT-C4208	ALTERNATIVE 1,2,3 - STA 20910+00 TO 20935+00
188	UT-C4209	ALTERNATIVE 1,2,3 - STA 20910+00 TO 20935+00
189	UT-C4210	ALTERNATIVE 1,2,3 - STA 20935+00 TO 20960+00
190	UT-C4211	ALTERNATIVE 1,2,3 - STA 20935+00 TO 20960+00
191	UT-C4212	ALTERNATIVE 1,2,3 - STA 20935+00 TO 20960+00
192	UT-C4213	ALTERNATIVE 1,2,3 - STA 20960+00 TO 20985+00
193	UT-C4214	ALTERNATIVE 1,2,3 - STA 20960+00 TO 20985+00
194	UT-C4215	ALTERNATIVE 1,2,3 - STA 20960+00 TO 20985+00
195	UT-C4216	ALTERNATIVE 1,2,3 - STA 20960+00 TO 20985+00
196	UT-C4217	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
197	UT-C4218	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
198	UT-C4219	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
199	UT-C4220	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
200	UT-C4221	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
201	UT-C4222	ALTERNATIVE 1,2,3 - STA 21010+00 TO 21035+00
202	UT-C4223	ALTERNATIVE 1,2,3 - STA 21035+00 TO 21060+00
203	UT-C4224	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
204	UT-C4225	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
205	UT-C4226	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
206	UT-C4227	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
207	UT-C4228	ALTERNATIVE 1,2,3 - STA 21060+00 TO 21085+00
208	UT-C4229	ALTERNATIVE 1,2,3 - STA 21085+00 TO 21110+00
209	UT-C4230	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
210	UT-C4231	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
211	UT-C4232	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\UT_BP-UT-B0002 1/20/2021 5:58:41 AM jcs_user_17609

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. HOLMAN
DRAWN BY
J. LOPEZ
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
GENERAL
INDEX SHEETS
SHEET 2 OF 4

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0002
SCALE
NTS
SHEET NO.
3

ALTERNATIVE 1 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
212	UT-C4233	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
213	UT-C4234	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
214	UT-C4235	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
215	UT-C4236	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
216	UT-C4237	ALTERNATIVE 1,2,3 - STA 21110+00 TO 21135+00
217	UT-C4238	ALTERNATIVE 1,2,3 - STA 21135+00 TO 21160+00
218	UT-C4239	ALTERNATIVE 1,2,3 - STA 21135+00 TO 21160+00
219	UT-C4240	ALTERNATIVE 1,2,3 - STA 21160+00 TO 21185+00
220	UT-C4241	ALTERNATIVE 1,2,3 - STA 21160+00 TO 21185+00
221	UT-C4242	ALTERNATIVE 1,2,3 - STA 21185+00 TO 21210+00
222	UT-C4243	ALTERNATIVE 1,2,3 - STA 21185+00 TO 21210+00
223	UT-C4244	ALTERNATIVE 1,2,3 - STA 21210+00 TO 21235+00
224	UT-C4251	ALTERNATIVE 1,3,5 - STA 17360+00 TO 17385+00
225	UT-C4252	ALTERNATIVE 1,3,5 - STA 17385+00 TO 17410+00
226	UT-C4253	ALTERNATIVE 1,3,5 - STA 17385+00 TO 17410+00
227	UT-C4254	ALTERNATIVE 1,3,5 - STA 17510+00 TO 17535+00
228	UT-C4255	ALTERNATIVE 1,3,5 - STA 17560+00 TO 17585+00
229	UT-C4256	ALTERNATIVE 1,3,5 - STA 17585+00 TO 17610+00
230	UT-C4257	ALTERNATIVE 1,3,5 - STA 17610+00 TO 17635+00
231	UT-C4258	ALTERNATIVE 1,3,5 - STA 17660+00 TO 17685+00
232	UT-C4259	ALTERNATIVE 1,3,5 - STA 17710+00 TO 17735+00
233	UT-C4261	ALTERNATIVE 1,2,5 - STA 19385+00 TO 19410+00
234	UT-C4262	ALTERNATIVE 1,2,5 - STA 19385+00 TO 19410+00
235	UT-C4263	ALTERNATIVE 1,2,5 - STA 19385+00 TO 19410+00
236	UT-C4264	ALTERNATIVE 1,2,5 - STA 19410+00 TO 19435+00
237	UT-C4265	ALTERNATIVE 1,2,5 - STA 19410+00 TO 19435+00
238	UT-C4266	ALTERNATIVE 1,2,5 - STA 19410+00 TO 19435+00
239	UT-C4267	ALTERNATIVE 1,2,5 - STA 19435+00 TO 19460+00
240	UT-C4268	ALTERNATIVE 1,2,5 - STA 19435+00 TO 19460+00
241	UT-C4269	ALTERNATIVE 1,2,5 - STA 19810+00 TO 19835+00
242	UT-C4270	ALTERNATIVE 1,2,5 - STA 19835+00 TO 19860+00
243	UT-C4271	ALTERNATIVE 1,2,5 - STA 19860+00 TO 19885+00
244	UT-C4272	ALTERNATIVE 1,2,5 - STA 19885+00 TO 19910+00
245	UT-C4273	ALTERNATIVE 1,2,5 - STA 19985+00 TO 20010+00
246	UT-C4274	ALTERNATIVE 1,2,3,5 - STA 20010+00 TO 20035+00
247	UT-C4275	ALTERNATIVE 1,2,3,5 - STA 20035+00 TO 20060+00

ALTERNATIVE 2

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
248	UT-C4301	ALTERNATIVE 2 - STA 17285+00 TO 17310+00
249	UT-C4302	ALTERNATIVE 2 - STA 17310+00 TO 17335+00
250	UT-C4303	ALTERNATIVE 2 - STA 17335+00 TO 17360+00
251	UT-C4304	ALTERNATIVE 2 - STA 17360+00 TO 17385+00
252	UT-C4305	ALTERNATIVE 2 - STA 17385+00 TO 17410+00
253	UT-C4306	ALTERNATIVE 2 - STA 17410+00 TO 17435+00
254	UT-C4307	ALTERNATIVE 2 - STA 17435+00 TO 17460+00
255	UT-C4308	ALTERNATIVE 2 - STA 17460+00 TO 17485+00
256	UT-C4309	ALTERNATIVE 2 - STA 17485+00 TO 17510+00
257	UT-C4310	ALTERNATIVE 2 - STA 17510+00 TO 17535+00

ALTERNATIVE 2 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
258	UT-C4311	ALTERNATIVE 2 - STA 17535+00 TO 17560+00
259	UT-C4312	ALTERNATIVE 2 - STA 17560+00 TO 17585+00
260	UT-C4313	ALTERNATIVE 2 - STA 17585+00 TO 17610+00
261	UT-C4314	ALTERNATIVE 2 - STA 17610+00 TO 17635+00
262	UT-C4315	ALTERNATIVE 2 - STA 17635+00 TO 17660+00
263	UT-C4316	ALTERNATIVE 2 - STA 17660+00 TO 17685+00
264	UT-C4317	ALTERNATIVE 2 - STA 17685+00 TO 17710+00
265	UT-C4318	ALTERNATIVE 2 - STA 17710+00 TO 17735+00
266	UT-C4319	ALTERNATIVE 2 - STA 17735+00 TO 17760+00
267	UT-C4320	ALTERNATIVE 2 - STA 17760+00 TO 17785+00
268	UT-C4321	ALTERNATIVE 2 - STA 17785+00 TO 17810+00
269	UT-C4322	ALTERNATIVE 2 - STA 17810+00 TO 17835+00
270	UT-C4323	ALTERNATIVE 2 - STA 17835+00 TO 17860+00
271	UT-C4324	ALTERNATIVE 2 - STA 17860+00 TO 17885+00
272	UT-C4325	ALTERNATIVE 2 - STA 17885+00 TO 17908+22
273	UT-C4331	ALTERNATIVE 2 - STA 17360+00 TO 17385+00
274	UT-C4332	ALTERNATIVE 2 - STA 17385+00 TO 17410+00
275	UT-C4333	ALTERNATIVE 2 - STA 17385+00 TO 17410+00

ALTERNATIVE 3

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
276	UT-C4401	ALTERNATIVE 3 - STA 19296+02 TO 19299+46
277	UT-C4402	ALTERNATIVE 3 - STA 19299+46 TO 19324+00
278	UT-C4403	ALTERNATIVE 3 - STA 19324+00 TO 19349+00
279	UT-C4404	ALTERNATIVE 3 - STA 19349+00 TO 19374+00
280	UT-C4405	ALTERNATIVE 3 - STA 19374+00 TO 19399+00
281	UT-C4406	ALTERNATIVE 3 - STA 19399+00 TO 19424+00
282	UT-C4407	ALTERNATIVE 3 - STA 19424+00 TO 19449+00
283	UT-C4408	ALTERNATIVE 3 - STA 19449+00 TO 19474+00
284	UT-C4409	ALTERNATIVE 3 - STA 19474+00 TO 19499+00
285	UT-C4410	ALTERNATIVE 3 - STA 19499+00 TO 19524+00
286	UT-C4411	ALTERNATIVE 3 - STA 19524+00 TO 19549+00
287	UT-C4412	ALTERNATIVE 3 - STA 19549+00 TO 19574+00
288	UT-C4413	ALTERNATIVE 3 - STA 19574+00 TO 19599+00
289	UT-C4414	ALTERNATIVE 3 - STA 19599+00 TO 19624+00
290	UT-C4415	ALTERNATIVE 3 - STA 19624+00 TO 19649+00
291	UT-C4416	ALTERNATIVE 3 - STA 19649+00 TO 19674+00
292	UT-C4417	ALTERNATIVE 3 - STA 19674+00 TO 19699+00
293	UT-C4418	ALTERNATIVE 3 - STA 19699+00 TO 19724+00
294	UT-C4419	ALTERNATIVE 3 - STA 19724+00 TO 19749+00
295	UT-C4420	ALTERNATIVE 3 - STA 19749+00 TO 19774+00
296	UT-C4421	ALTERNATIVE 3 - STA 19774+00 TO 19799+00
297	UT-C4422	ALTERNATIVE 3 - STA 19799+00 TO 19824+00
298	UT-C4423	ALTERNATIVE 3 - STA 19824+00 TO 19849+00
299	UT-C4424	ALTERNATIVE 3 - STA 19849+00 TO 19874+00
300	UT-C4425	ALTERNATIVE 3 - STA 19874+00 TO 19899+00
301	UT-C4426	ALTERNATIVE 3 - STA 19899+00 TO 19924+00
302	UT-C4427	ALTERNATIVE 3 - STA 19924+00 TO 19949+00
303	UT-C4428	ALTERNATIVE 3 - STA 19949+00 TO 19974+00
304	UT-C4429	ALTERNATIVE 3 - STA 19974+00 TO 19999+00
305	UT-C4430	ALTERNATIVE 3 - STA 19999+00 TO 20024+00
306	UT-C4431	ALTERNATIVE 3 - STA 20024+00 TO 20049+00
307	UT-C4441	ALTERNATIVE 3 - STA 19424+00 TO 19449+00
308	UT-C4442	ALTERNATIVE 3 - STA 19424+00 TO 19449+00
309	UT-C4443	ALTERNATIVE 3 - STA 19424+00 TO 19449+00
310	UT-C4444	ALTERNATIVE 3 - STA 19449+00 TO 19474+00
311	UT-C4445	ALTERNATIVE 3 - STA 19449+00 TO 19474+00
312	UT-C4446	ALTERNATIVE 3 - STA 19749+00 TO 19774+00

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. HOLMAN
 DRAWN BY
J. LOPEZ
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
01/29/2021

RECORD SET
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CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 GENERAL
 INDEX SHEETS
 SHEET 3 OF 4

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-B0003
 SCALE
NTS
 SHEET NO.
4

ALTERNATIVE 3 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
313	UT-C4447	ALTERNATIVE 3 - STA 19824+00 TO 19849+00
314	UT-C4448	ALTERNATIVE 5 - STA 19849+00 TO 19874+00
315	UT-C4449	ALTERNATIVE 5 - STA 19899+00 TO 19924+00
316	UT-C4450	ALTERNATIVE 5 - STA 19974+00 TO 19999+00
317	UT-C4451	ALTERNATIVE 5 - STA 19999+00 TO 20024+00
318	UT-C4452	ALTERNATIVE 5 - STA 20024+00 TO 20049+00

ALTERNATIVE 5

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
319	UT-C4501	ALTERNATIVE 5 - STA 20720+00 TO 20745+00
320	UT-C4502	ALTERNATIVE 5 - STA 20745+00 TO 20770+00
321	UT-C4503	ALTERNATIVE 5 - STA 20770+00 TO 20795+00
322	UT-C4504	ALTERNATIVE 5 - STA 20795+00 TO 20820+00
323	UT-C4505	ALTERNATIVE 5 - STA 20820+00 TO 20845+00
324	UT-C4506	ALTERNATIVE 5 - STA 20845+00 TO 20870+00
325	UT-C4507	ALTERNATIVE 5 - STA 20870+00 TO 20895+00
326	UT-C4508	ALTERNATIVE 5 - STA 20895+00 TO 20920+00
327	UT-C4509	ALTERNATIVE 5 - STA 20920+00 TO 20945+00
328	UT-C4510	ALTERNATIVE 5 - STA 20945+00 TO 20970+00
329	UT-C4511	ALTERNATIVE 5 - STA 20970+00 TO 20995+00
330	UT-C4512	ALTERNATIVE 5 - STA 20995+00 TO 21020+00
331	UT-C4513	ALTERNATIVE 5 - STA 21020+00 TO 21045+00
332	UT-C4514	ALTERNATIVE 5 - STA 21045+00 TO 21070+00
333	UT-C4515	ALTERNATIVE 5 - STA 21070+00 TO 21095+00
334	UT-C4516	ALTERNATIVE 5 - STA 21095+00 TO 21120+00
335	UT-C4517	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
336	UT-C4518	ALTERNATIVE 5 - STA 21145+00 TO 21170+00
337	UT-C4519	ALTERNATIVE 5 - STA 21170+00 TO 21195+00
338	UT-C4520	ALTERNATIVE 5 - STA 21195+00 TO 21220+00
339	UT-C4521	ALTERNATIVE 5 - STA 21220+00 TO 21245+00
340	UT-C4531	ALTERNATIVE 5 - STA 20795+00 TO 20820+00
341	UT-C4532	ALTERNATIVE 5 - STA 20795+00 TO 20820+00
342	UT-C4533	ALTERNATIVE 5 - STA 20845+00 TO 20870+00
343	UT-C4534	ALTERNATIVE 5 - STA 20845+00 TO 20870+00
344	UT-C4535	ALTERNATIVE 5 - STA 20845+00 TO 20870+00
345	UT-C4536	ALTERNATIVE 5 - STA 20895+00 TO 20920+00
346	UT-C4537	ALTERNATIVE 5 - STA 20895+00 TO 20920+00
347	UT-C4538	ALTERNATIVE 5 - STA 20895+00 TO 20920+00
348	UT-C4539	ALTERNATIVE 5 - STA 20895+00 TO 20920+00
349	UT-C4540	ALTERNATIVE 5 - STA 20920+00 TO 20945+00
350	UT-C4541	ALTERNATIVE 5 - STA 20920+00 TO 20945+00
351	UT-C4542	ALTERNATIVE 5 - STA 20920+00 TO 20945+00
352	UT-C4543	ALTERNATIVE 5 - STA 20945+00 TO 20970+00
353	UT-C4544	ALTERNATIVE 5 - STA 20945+00 TO 20970+00
354	UT-C4545	ALTERNATIVE 5 - STA 20945+00 TO 20970+00
355	UT-C4546	ALTERNATIVE 5 - STA 20945+00 TO 20970+00
356	UT-C4547	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
357	UT-C4548	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
358	UT-C4549	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
359	UT-C4550	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
360	UT-C4551	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
361	UT-C4552	ALTERNATIVE 5 - STA 20995+00 TO 21045+00
362	UT-C4553	ALTERNATIVE 5 - STA 21020+00 TO 21045+00
363	UT-C4554	ALTERNATIVE 5 - STA 21045+00 TO 21095+00
364	UT-C4555	ALTERNATIVE 5 - STA 21045+00 TO 21095+00
365	UT-C4556	ALTERNATIVE 5 - STA 21045+00 TO 21095+00
366	UT-C4557	ALTERNATIVE 5 - STA 21045+00 TO 21095+00
367	UT-C4558	ALTERNATIVE 5 - STA 21045+00 TO 21095+00

ALTERNATIVE 5 CONTINUED

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
368	UT-C4559	ALTERNATIVE 5 - STA 21095+00 TO 21120+00
369	UT-C4560	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
370	UT-C4561	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
371	UT-C4562	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
372	UT-C4563	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
373	UT-C4564	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
374	UT-C4565	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
375	UT-C4566	ALTERNATIVE 5 - STA 21120+00 TO 21145+00
376	UT-C4567	ALTERNATIVE 5 - STA 21145+00 TO 21170+00
377	UT-C4568	ALTERNATIVE 5 - STA 21145+00 TO 21170+00
378	UT-C4569	ALTERNATIVE 5 - STA 21170+00 TO 21195+00
379	UT-C4570	ALTERNATIVE 5 - STA 21170+00 TO 21195+00
380	UT-C4571	ALTERNATIVE 5 - STA 21195+00 TO 21220+00
381	UT-C4572	ALTERNATIVE 5 - STA 21195+00 TO 21220+00
382	UT-C4573	ALTERNATIVE 5 - STA 21220+00 TO 21245+00

SEWER RELOCATION PROFILES

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
383	UT-D1001	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
384	UT-D1002	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
385	UT-D1003	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
386	UT-D1004	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
387	UT-D1005	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
388	UT-D1006	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
389	UT-D1007	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
390	UT-D1008	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
391	UT-D1009	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
392	UT-D1010	ALTERNATIVE 1,2,3 - SEWER RELOCATION PROFILES
393	UT-D1011	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
394	UT-D1012	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
395	UT-D1013	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
396	UT-D1014	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
397	UT-D1015	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
398	UT-D1016	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
399	UT-D1017	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
400	UT-D1018	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
401	UT-D1019	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
402	UT-D1020	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
403	UT-D1021	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
404	UT-D1022	ALTERNATIVE 5 - SEWER RELOCATION PROFILES
405	UT-D1023	ALTERNATIVE 5 - SEWER RELOCATION PROFILES

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. HOLMAN
 DRAWN BY
J. LOPEZ
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
01/29/2021

RECORD SET
PEPD
SUBMITTAL

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CONSTRUCTION

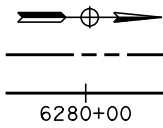


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 GENERAL
 INDEX SHEETS
 SHEET 4 OF 4

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 UT-B0004
 SCALE
 NTS
 SHEET NO.
 5

LEGEND AND SYMBOLS

EXISTING	NEW	DESCRIPTION
-e- -e-	-E- -E-	ELECTRICAL UNDERGROUND
-e- (oh)-	-E- -(OH)-	ELECTRICAL OVERHEAD
---gs---gs---	---GS---GS---	GAS
-g- -g-	-G- -G-	NATURAL GAS
-irr- -irr-	-IRR- -IRR-	IRRIGATION
---o- ---o-	---O- ---O-	OIL
---sd- ---sd-	---SD- ---SD-	STORM DRAIN
---s- ---s-	---S- ---S-	SEWER
-st- -st-	-ST- -ST-	STEAM
---tc- ---(oh)-	---TC- ----(OH)-	TELECOMMUNICATION OVERHEAD
---tc- ---tc-	---TC- ---TC-	TELECOMMUNICATION UNDERGROUND
---t- ---(oh)-	---T- ----(OH)-	TELEPHONE OVERHEAD
---t- ---t-	---T- ---T-	TELEPHONE UNDERGROUND
---tv- ---(oh)-	---TV- ----(OH)-	TELEVISION OVERHEAD
---tv- ---tv-	---TV- ---TV-	TELEVISION UNDERGROUND
-w- -w-	-W- -W-	WATER, RECYCLED WATER
-fo- -fo-	-FO- -FO-	FIBER OPTIC
		IRRIGATION WELL, WEIR, TURNOUT, PUMP
		SEWER, STORM DRAIN MANHOLE
		UTILITY POLE
		POWER TRANSMISSION TOWER
		STREET LIGHT
		NORTH ARROW
		PROP CHSR RIGHT-OF-WAY
		CHSR TRACK CENTER LINE
		RETAINING WALL
		TOP OF CUT GRADING LINE
		TOE OF SLOPE GRADING LINE
		STRUCTURE FOUNDATION
		PTEF
		PPEF
		UTILITY TO BE REMOVED, RELOCATED OR ABANDONED
		RETENTION BASIN
		KEY NOTE, UTILITY NUMBER
		SOLAR FARM
		WIND TURBINE



LEGEND AND SYMBOLS

	SUPPLY STATION		STANDALONE RADIO SITE
	SWITCHING STATION		TRAIN CONTROL SYSTEM SITE A
	PARALLELING STATION		TRAIN CONTROL SYSTEM SITE B
			TRAIN CONTROL SYSTEM SITE D
			TRAIN CONTROL SYSTEM SITE E
			TRACK CROSSING PANEL

ABBREVIATIONS

AB	AGGREGATE BASE	FH	FIRE HYDRANT	R	RADIUS
ABN	ABANDON	FM	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
AC	ASPHALT CONCRETE	F-B	FRESNO TO BAKERSFIELD	RD	ROAD
ACB	ASPHALT CONCRETE BASE	FO	FIBER OPTIC	RDWY	ROADWAY
ACP	ASBESTOS CEMENT PIPE	FUT	FUTURE	REQD	REQUIRED
A/G	AT GRADE			RR	RAILROAD
ALT	ALTERNATIVE	G	GAS	RT	RIGHT
APPROX	APPROXIMATE	GALV	GALVANIZED	RTE	ROUTE
AVE	AVENUE	GB	GRADE BREAK	R/W, ROW	RIGHT-OF-WAY
		GIS	GEOGRAPHICAL INFORMATION SYSTEM	RWY	RAILWAY
BEG	BEGIN	GND	GROUND	S	SOUTH
BFSSA	BAKERSFIELD F STREET STATION ALIGNMENT	GTR	GUTTER	SB	SOUTHBOUND
BLDG	BUILDING	GV	GAS VALVE	SD	STORM DRAIN
BLVD	BOULEVARD	GWTR	GROUNDWATER	SDMH	STORM DRAIN MANHOLE
BNSF	BURLINGTON NORTHERN SANTA FE	GWMW	GROUNDWATER MONITOR WELL	SF	SQUARE FEET
BO	BLOW-OFF	GWAW	GROUNDWATER ACTIVE WELL	SHLD	SHOULDER
B-P	BAKERSFIELD TO PALMDALE			SR	STATE ROUTE
		HOR	HORIZONTAL	SS	SANITARY SEWER, SUPPLY STATION
CB	CATCH BASIN	HSR	HIGH-SPEED RAIL	SSMH	SANITARY SEWER MANHOLE
CD	CURB DRAIN	HST	HIGH-SPEED TRAIN	ST	STREET
C&G	CURB AND GUTTER	HV	HIGH VOLTAGE	STA	STATION
CHSR	CALIFORNIA HIGH-SPEED RAIL	IN	INCH	SW	SIDEWALK, SWITCHING STATION
CHST	CALIFORNIA HIGH-SPEED TRAIN	INV	INVERT	SWR	SEWER
CIP	CAST IRON PIPE	IRR	IRRIGATION	T	TELEPHONE, TOTAL
CL	CENTERLINE, CLASS	L	LENGTH	TBD	TO BE DETERMINED
CL	CENTERLINE	LAN	LANCASTER	TC	TELECOMMUNICATION
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LT	LEFT	TCE	TEMPORARY CONSTRUCTION EASEMENT
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION	MAX	MAXIMUM	TEL	TELEPHONE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	TP	TRACTION POWER
CTV	CABLE TELEVISION	N	NORTH, NEW	TOR	TOP OF RAIL
CV	CURVE	NA	NOT APPLICABLE	TRANS	TRANSMISSION
		NB	NORTHBOUND	TS	TRAFFIC SIGNAL
D	DEPTH	NIC	NOT IN CONTRACT	TYP	TPICAL
DI	DRAINAGE INLET	NO	NUMBER	UG, U/G	UNDERGROUND
DIA	DIAMETER	NTS	NOT TO SCALE	UNK	UNKNOWN
DIP	DUCTILE IRON PIPE			UPRR	UNION PACIFIC RAILROAD
DIST	DISTANCE, DISTRIBUTION	OCS	OVERHEAD CONTACT SYSTEM	VAR	VARIES
DWG	DRAWING	PROP, (P)	PROPOSED	VC	VERTICAL CURVE
		PED	PEDESTRIAN	VCP	VITRIFIED CLAY PIPE
E	ELECTRICAL, EAST	PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT	W	WEST, WATER
EB	EASTBOUND	PS	PARALLELING STATION	W/	WITH
EDSN	EDISON	PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT	WB	WESTBOUND
EL	ELEVATION	PVC	POLYVINYL CHLORIDE	WM	WATER MAIN
ELEC	ELECTRIC	PG	PAVEMENT PROPOSED GRADE	WV	WATER VALVE
EP	EDGE OF PAVEMENT				
EXIST, (E)	EXISTING				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. HOLMAN
DRAWN BY J. LOPEZ
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
GENERAL
ABBREVIATIONS AND LEGEND

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0005
SCALE NTS
SHEET NO. 6

UTILITY OWNERS	
OWNER	ABBREVIATION
ANTELOPE VALLEY EAST KERN WATER AGENCY	AVEKWA
APR CORPORATION	APR CORP
ARVIN-EDISON WATER STORAGE DISTRICT	AEWSD
AT&T TRANSMISSION	AT&T TRANS
AT&T/PACBELL	PACBELL
BRIGHT HOUSE NETWORKS	BRIGHTHOUSE
CALIFORNIA WATER SERVICE	CALWATER
CALTRANS	CALTRANS
CENTURYLINK COMMUNICATION CA	CENTURYLINK
CITY OF BAKERSFIELD	CITY OF BAKERSFIELD
CITY OF LANCASTER	CITY OF LANCASTER
CITY OF PALMDALE	CITY OF PALMDALE
CITY OF TEHACHAPI	CITY OF TEHACHAPI
COUNTY OF KERN	COUNTY OF KERN
CVIN LLC	CVIN
DOLE ENTERPRISES	DOLE ENT
EAST NILES COMMUNITY SERVICES DISTRICT	ENCSD
GOLDEN HILLS COMMUNITY SERVICE DISTRICT	GHCSO
KERN DELTA WATER DISTRICT	KDWD
KERN OIL & REFINING	KERN OIL
KERN SANITATION AUTHORITY	KSA
KINDER MORGAN (EL PASO PIPELINE)	EL PASO/KM
KINDER MORGAN (MOJAVE PIPELINE)	MOJAVE/KM
LANDALE MUTUAL WATER COMPANY	LMWC
LEVEL 3 COMMUNICATIONS	LEVEL 3
LOS ANGELES DEPARTMENT OF WATER AND POWER	LADWP
LOS ANGELES COUNTY DEPT OF PUBLIC WORKS - WATER WORKS	LACDPW-WW
LOS ANGELES COUNTY DEPARTMENT OF PARKS AND RECREATION	LACDPR
LOS ANGELES COUNTY SANITATION DISTRICT	LACSD
NAFTEX OPERATING COMPANY	NAFTEX
NEXTERA ENERGY RESOURCES	NEXTERA
PG&E - DISTRIBUTION	PG&E DIST
PG&E - TRANSMISSION	PG&E TRANS
PHILLIPS 66 - TOSCO	PHILLIPS66
ROSAMOND COMMUNITY SERVICE DISTRICT	RCSD
SHELL PIPELINE CO	SHELL
SOUTHERN CALIFORNIA EDISON - TRANSMISSION	SCE TRANS
SOUTHERN CALIFORNIA EDISON - DISTRIBUTION	SCE DIST
SOUTHERN CALIFORNIA GAS CO/SEMPRA - DISTRIBUTION	SEMPRA DIST

UTILITY OWNERS CONT.	
OWNER	ABBREVIATION
SOUTHERN CALIFORNIA GAS CO/SEMPRA - TRANSMISSION	SEMPRA TRANS
SPRINT	SPRINT
SUNESYS, LLC	SUNESYS
TEHACHAPI CUMMINGS WATER	TEHACHAPI CUMMINGS
TIME WARNER	TIME WARNER
UNITED STATES BUREAU OF RECLAMATION	USBR
VALLEY WATER MANAGEMENT COMPANY	VWMC
VAQUERO ENERGY	VAQUERO
VERIZON	VERIZON

GENERAL NOTES:

- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION THESE PLANS. THE LOCATION OF EXISTING UTILITIES ARE BASED ON FOUR SOURCES:
 - TOPOGRAPHIC SURVEY
 - GIS
 - AS-BUILT DRAWINGS
 - LIMITED FIELD RECONNAISSANCE
 THE CONTRACTOR SHALL CONDUCT ITS OWN SURVEY AND VERIFY THE LOCATION OF EXISTING UTILITIES AND RECONCILE THE SURVEY DATA AND GIS DATA.
- SERVICE LATERALS FOR POTABLE WATER, SANITARY SEWER AND NATURAL GAS ARE NOT SHOWN.
- EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITION 'RELOCATE' AND 'REMOVE' PERTAIN TO ONLY THAT PORTION OF THE UTILITY WITHIN THE PROPOSED CHSR ROW OR IMPACTED BY PROPOSED IMPROVEMENTS.
- ABANDONMENT OF EXISTING OIL WELLS SHALL CONFORM TO THE REQUIREMENTS OF AGENCIES HAVING JURISDICTION REGARDING DECOMMISSIONING OF EXISTING OIL WELLS AND APPURTENANT EQUIPMENT.
- ACQUISITION OF UTILITY EASEMENTS IS BASED ON THE BP DRAFT DESIGN BASELINE REPORT, SECTION 5.0 RIGHT-OF-WAY. ASSUMED WIDTHS ARE LISTED IN THE UTILITY EASEMENT TABLE, THIS DRAWING.
- RELOCATIONS OF HIGH RISK UTILITIES ARE SHOWN, NOT ALL UTILITY RELOCATIONS ARE SHOWN.
- FOR SUPPLY STATION, SWITCHING STATIONS, AND PARALLELING STATIONS REFER TO THE TRACTION POWER DRAWINGS.

HIGH VOLTAGE TRANSMISSION LINE RELOCATION NOTES:

- ELECTRICAL TOWER AND WIRE HEIGHTS ARE NOT BASED ON FIELD SURVEY AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS.
- CPUC VERTICAL CLEARANCE FROM OCS POLE NEGATIVE FEEDER WIRE TO LOWEST HIGH VOLTAGE ELECTRICAL CONDUCTOR: CPUC GO 95 RULE 38 TABLE 2 (CASE 12).
- ELECTRICAL TRANSMISSION TOWERS/POLES SUBJECT TO ADDITIONAL CLEARANCE REQD BY UTILITY OWNER.
- PROPOSED HV TRANSMISSION TOWERS REPRESENTED CONCEPTUALLY.
- NEGATIVE FEEDER WIRE DISTANCE ABOVE TOP RAIL: 30' FOR 2 TRACK CONFIGURATION, 35' FOR 3 OR MORE TRACK CONFIGURATION.

DRAINAGE SYSTEM AND RELOCATION NOTES:

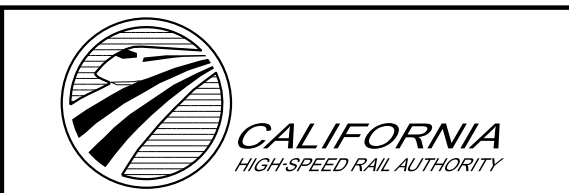
EXISTING STORM DRAINAGE PIPES, CULVERTS, OR CHANNELS ARE SHOWN FOR INFORMATION ONLY. REFER TO GRADING AND DRAINAGE PLANS FOR DETAILED DRAINAGE INFORMATION.

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DRAWN BY J. LOPEZ
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
GENERAL
GENERAL NOTES AND UTILITY OWNERS

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0006
SCALE NTS
SHEET NO. 7

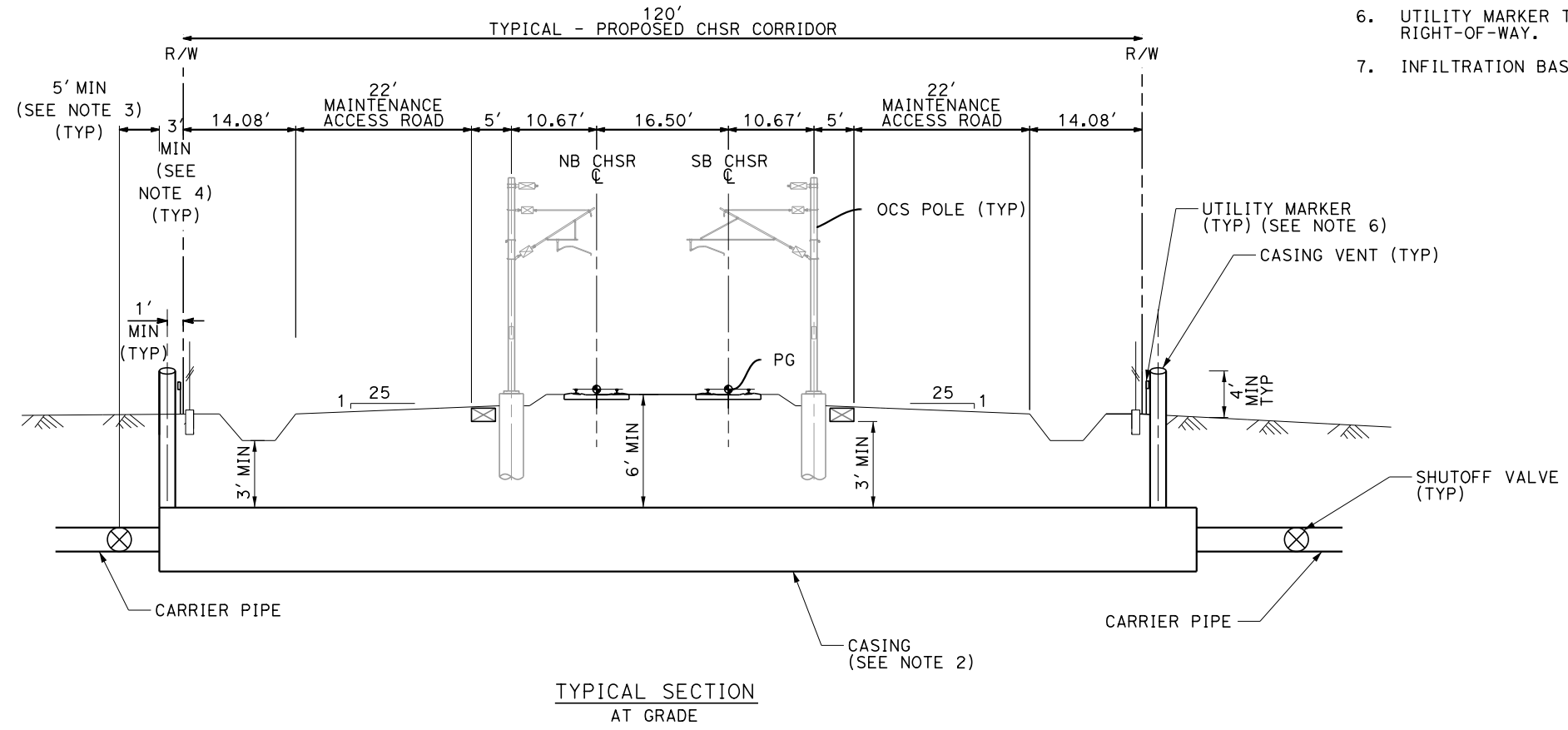
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NOTES:

1. TRACK, SYSTEMS, DRAINAGE, AND STRUCTURES ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. FOR ADDITIONAL PIPE CASING REQUIREMENTS, SEE AREMA MANUAL.
3. SHUTOFF VALVE MUST BE ACCESSIBLE FROM OUTSIDE THE RIGHT-OF-WAY. IT MAY NOT BE NEEDED ON BOTH SIDES.
4. THE CASING SHALL CONTINUE MINIMUM 3'-0" BEYOND THE RIGHT-OF-WAY.
5. TRANSVERSE UTILITIES SHALL BE LOCATED AWAY FROM MANHOLES, OCS FOOTINGS, AND OTHER HST SUBSURFACE ELEMENTS.
6. UTILITY MARKER TO INDICATE LOCATION OF UTILITY CROSSING AT RIGHT-OF-WAY.
7. INFILTRATION BASIN WHERE SHOWN ON THE PLANS.



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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
GENERAL
UTILITY CROSSING DETAIL

CONTRACT NO.
HSR13-44

DRAWING NO.
UT-B0007

SCALE
NTS

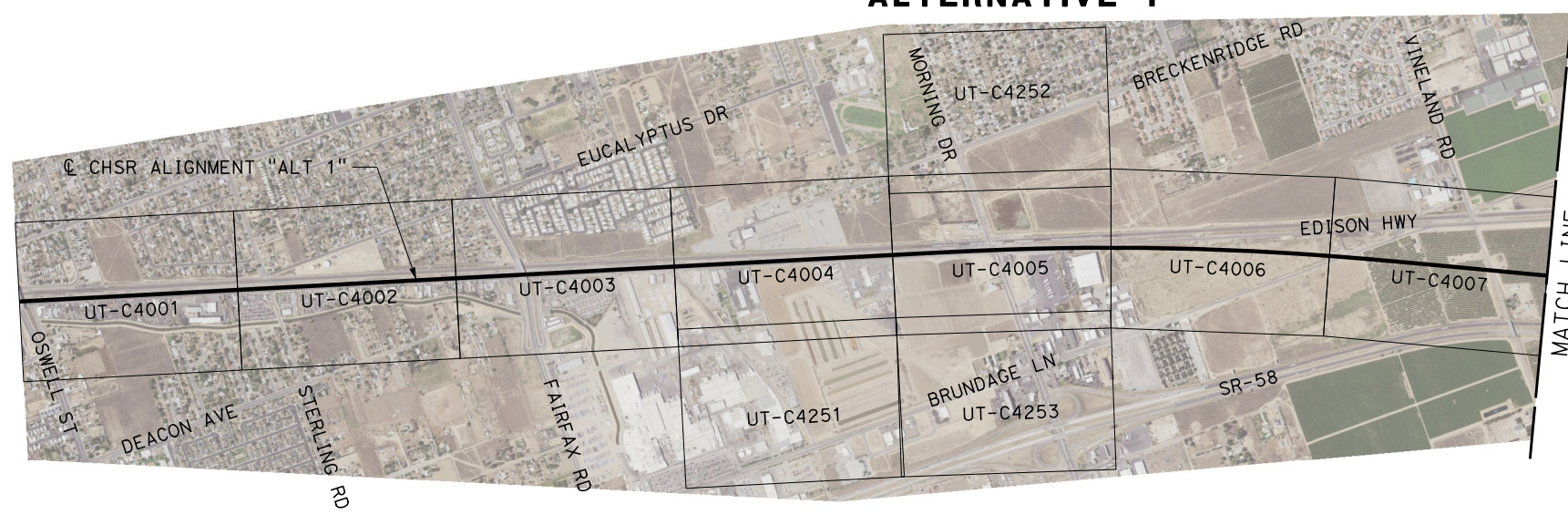
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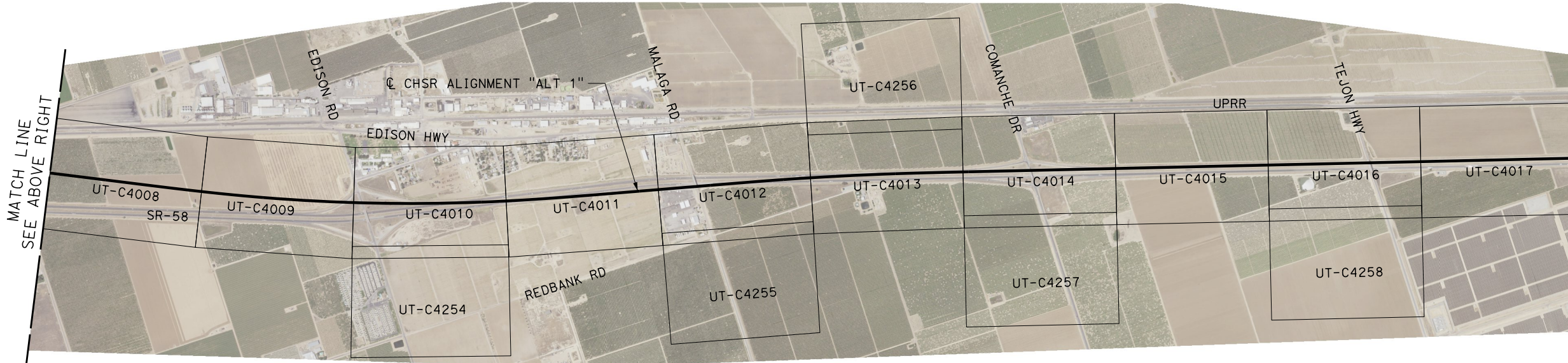
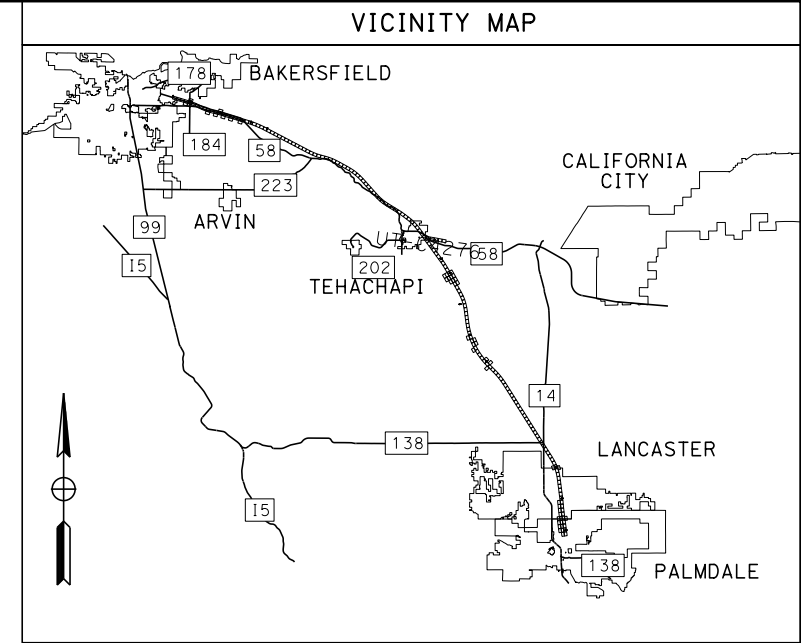
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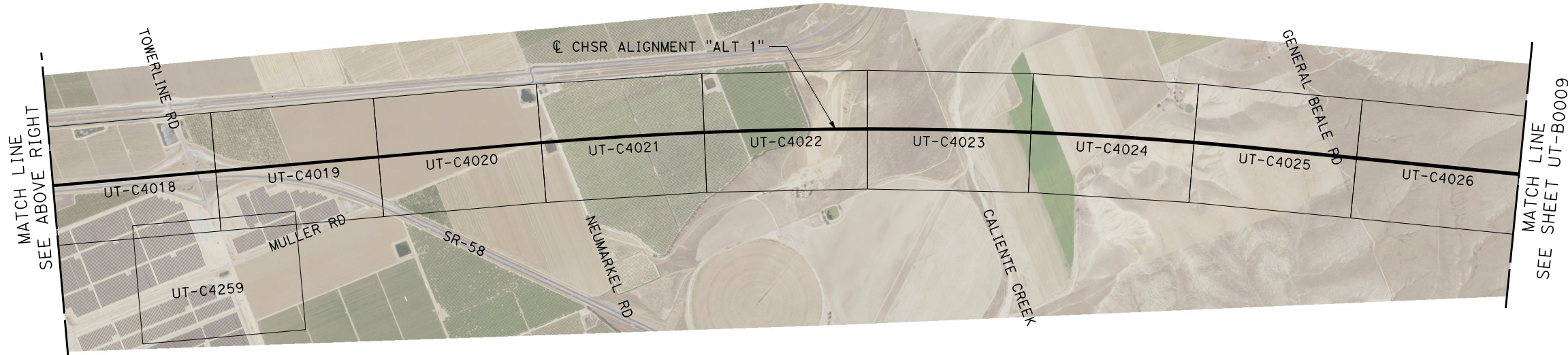


MATCH LINE
SEE BELOW LEFT



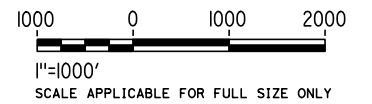
MATCH LINE
SEE ABOVE RIGHT

MATCH LINE
SEE BELOW LEFT



MATCH LINE
SEE ABOVE RIGHT

MATCH LINE
SEE SHEET UT-B0009



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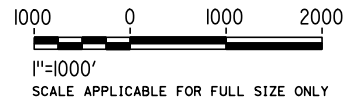
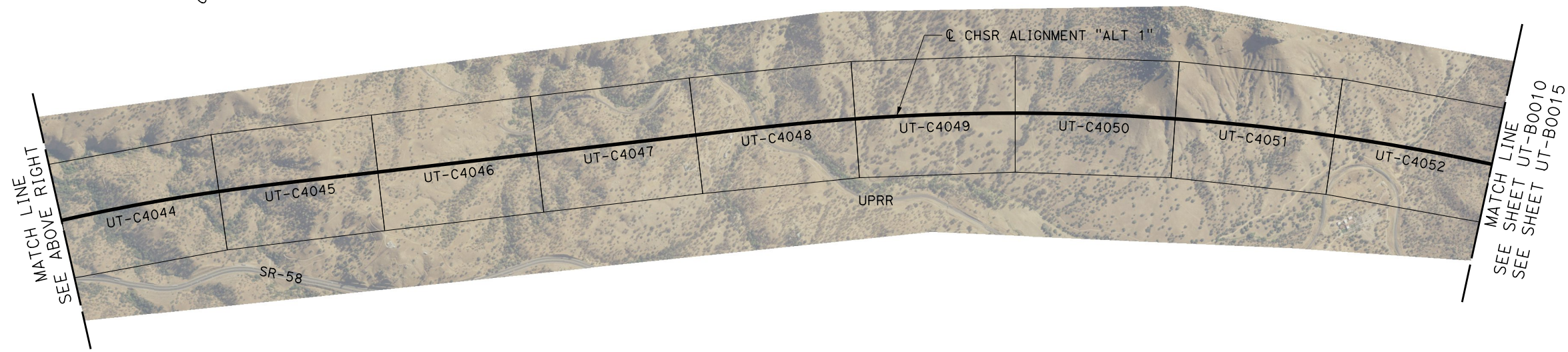
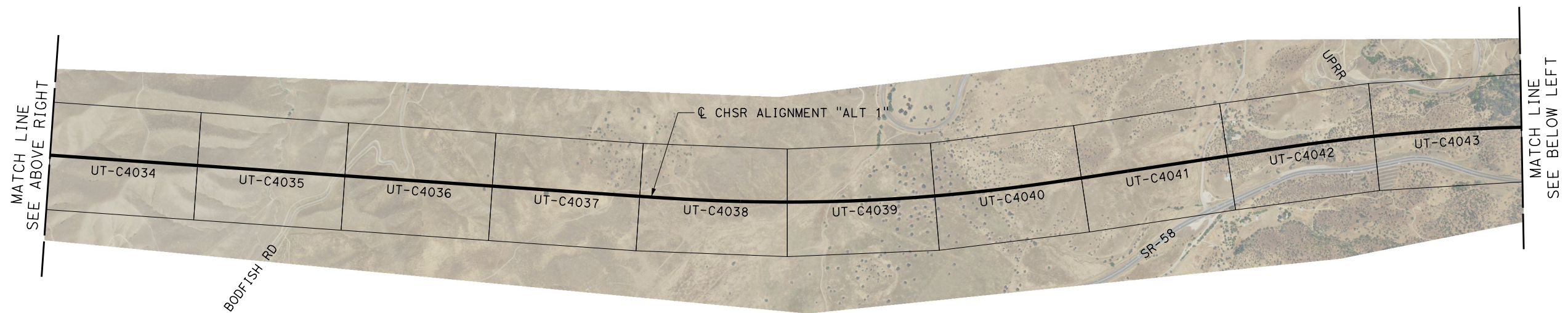
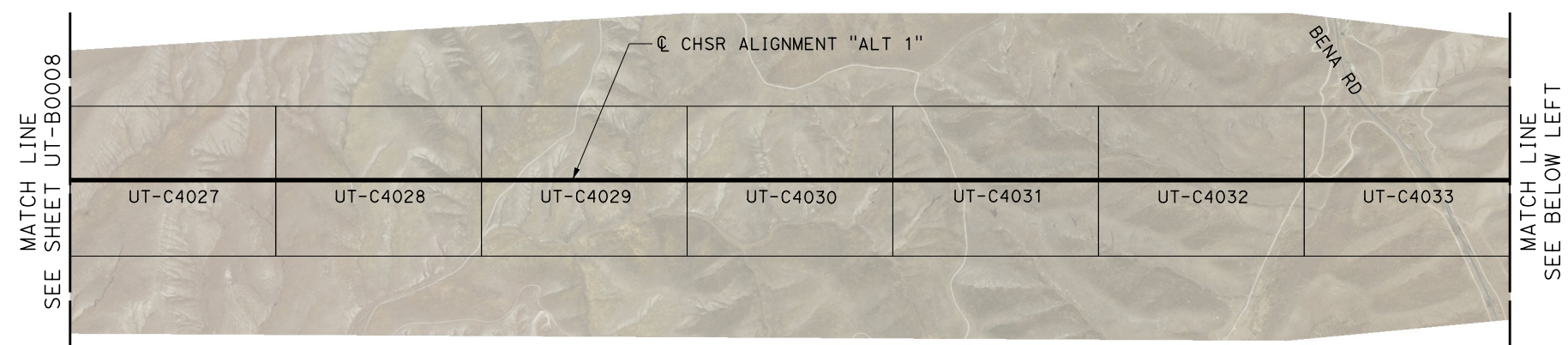
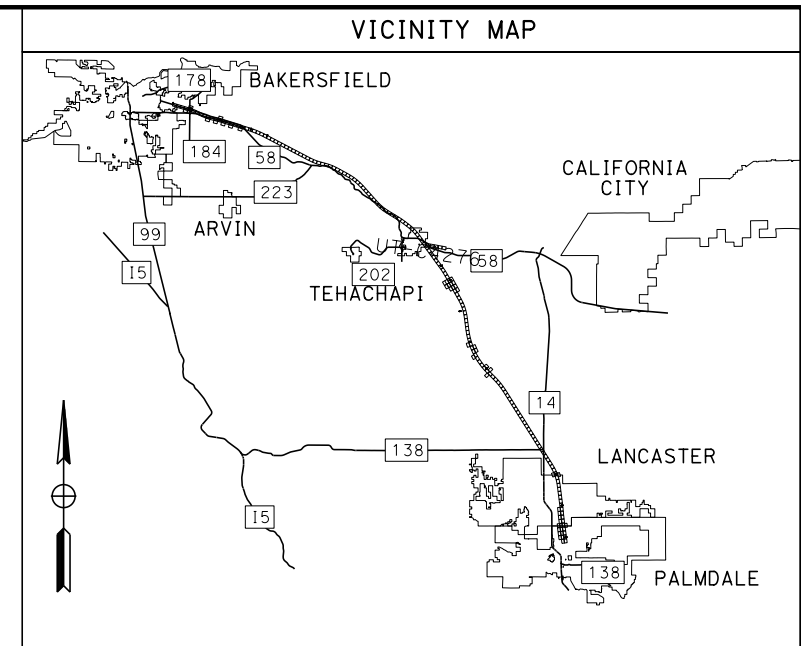
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 1 OF 7

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0008
SCALE
AS SHOWN
SHEET NO.
9

ALTERNATIVE 1



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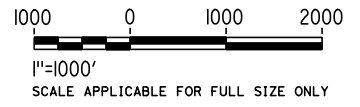
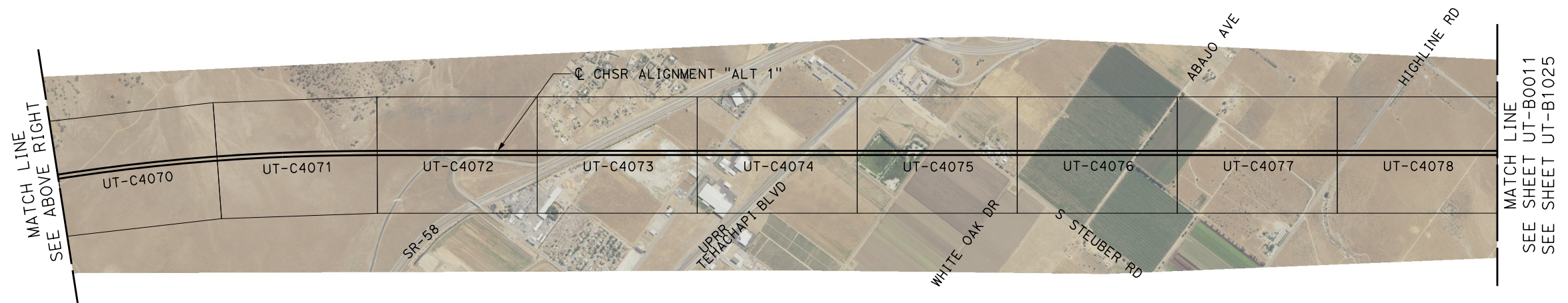
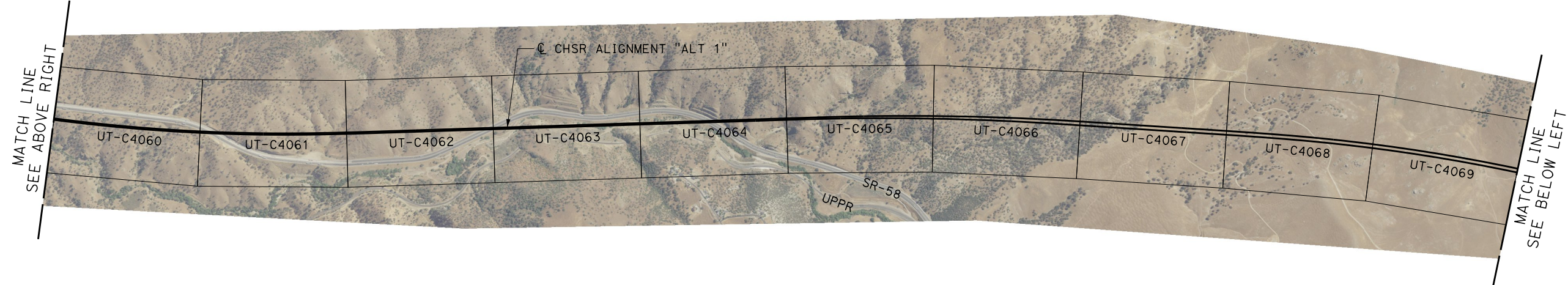
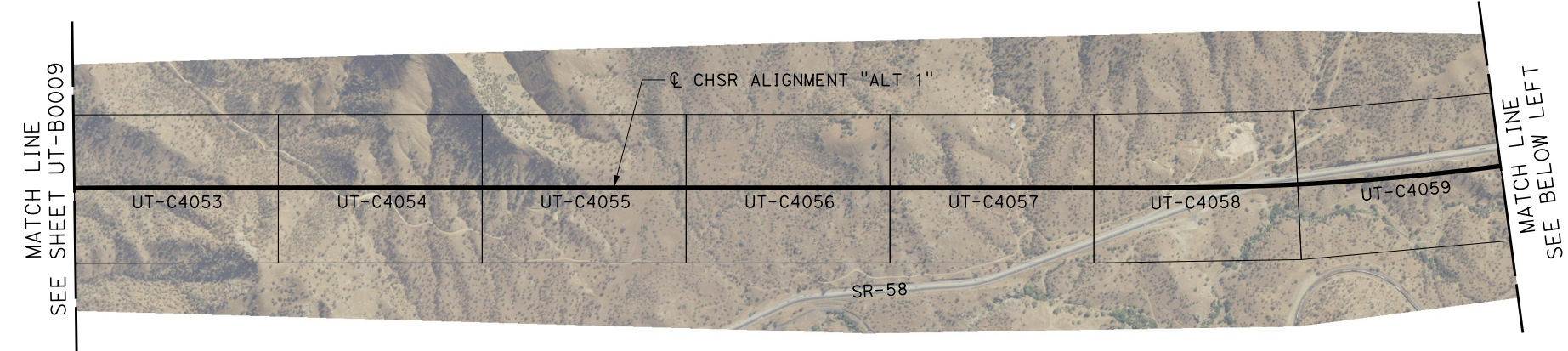
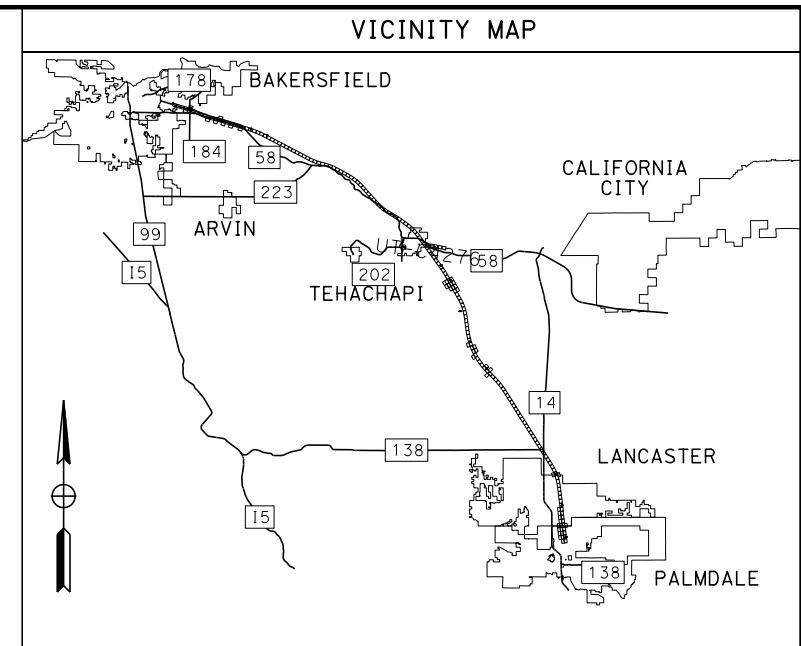
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 2 OF 7

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0009
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SHEET NO.
10

ALTERNATIVE 1



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BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 3 OF 7

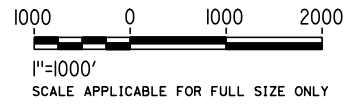
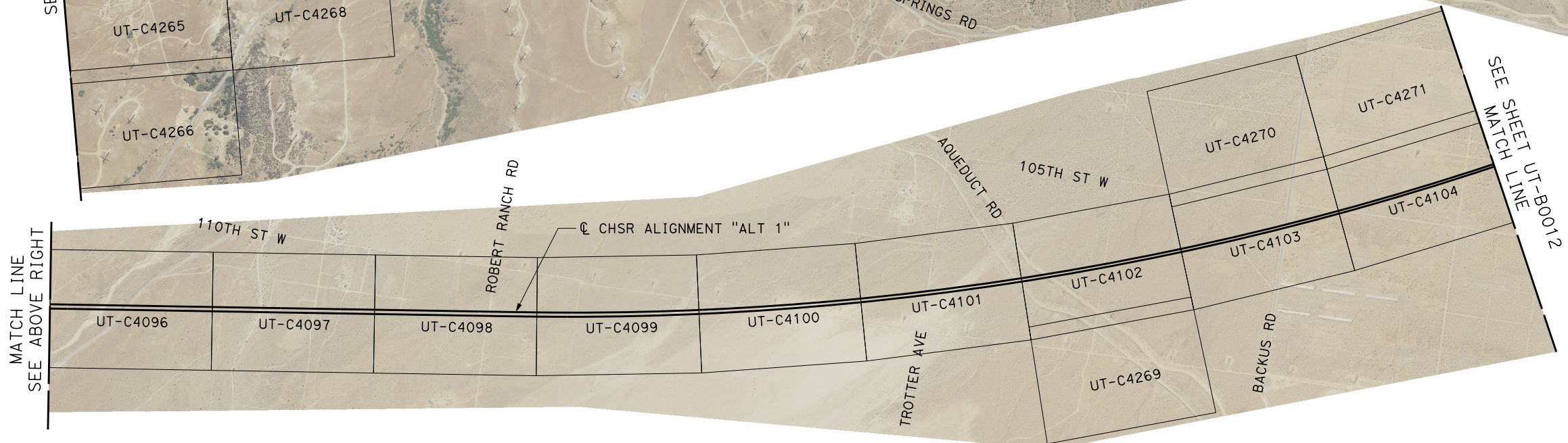
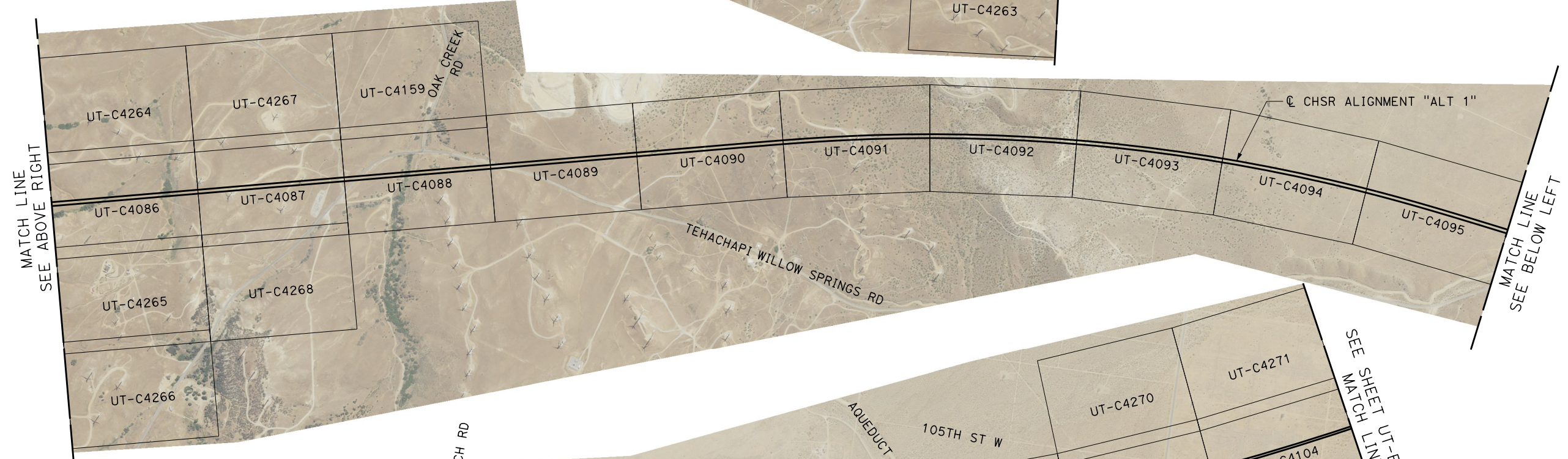
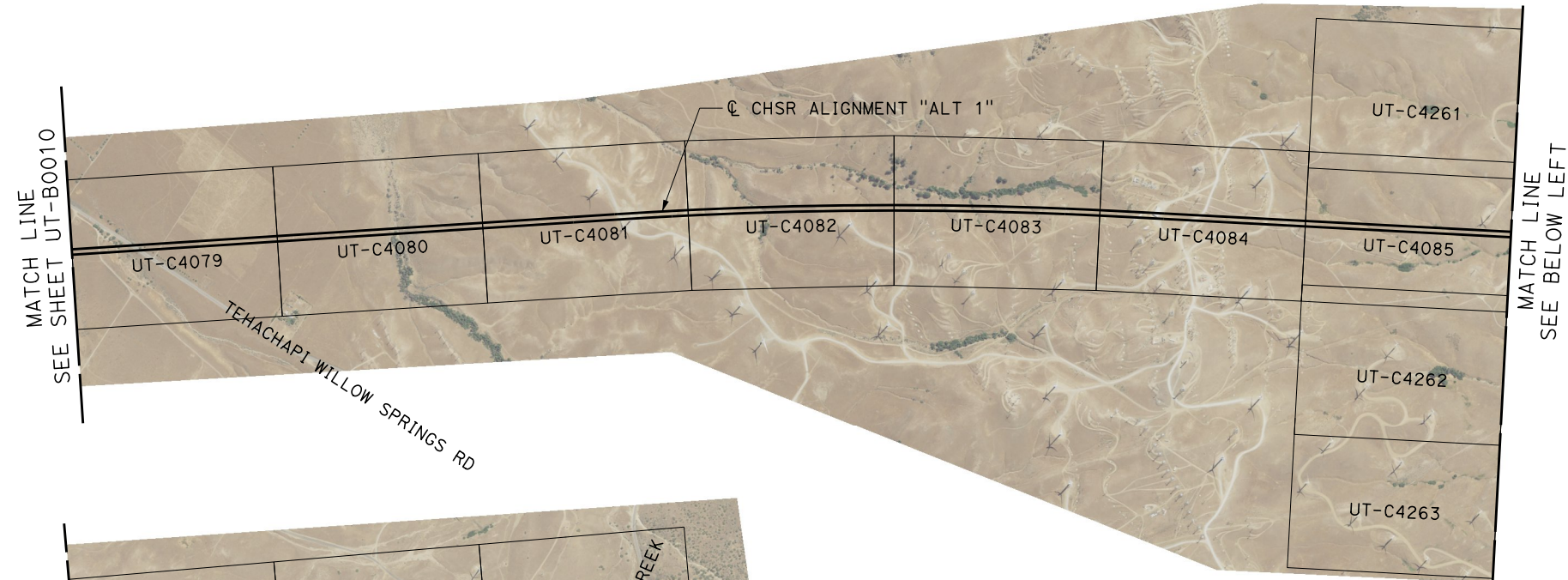
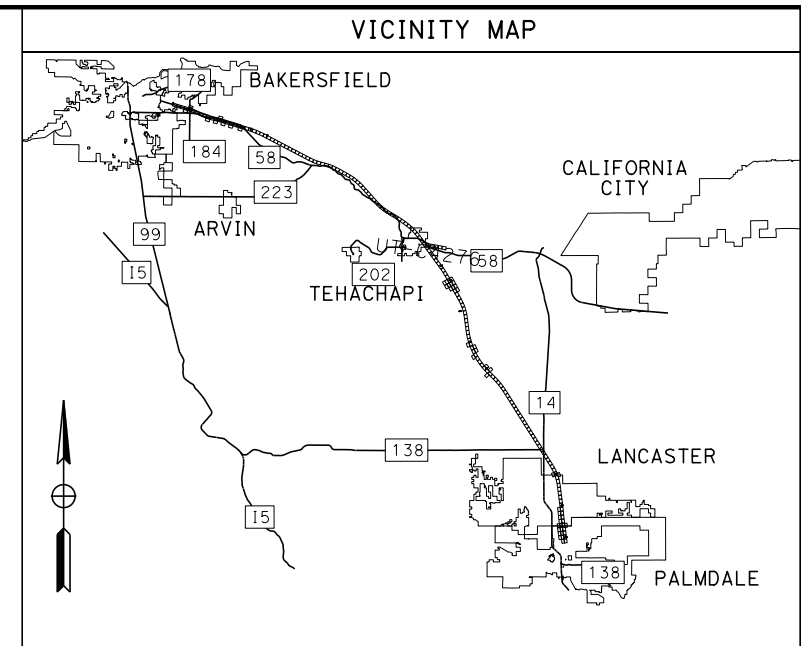
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 4 OF 7

CONTRACT NO.
HSR13-44

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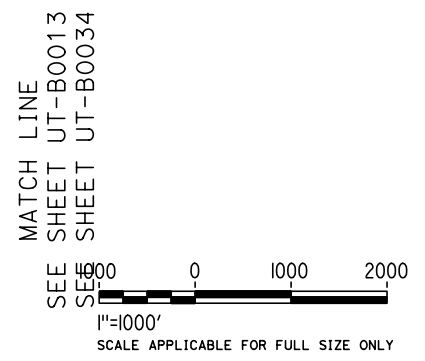
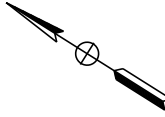
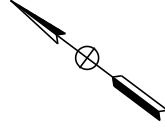
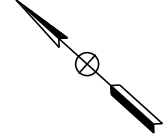
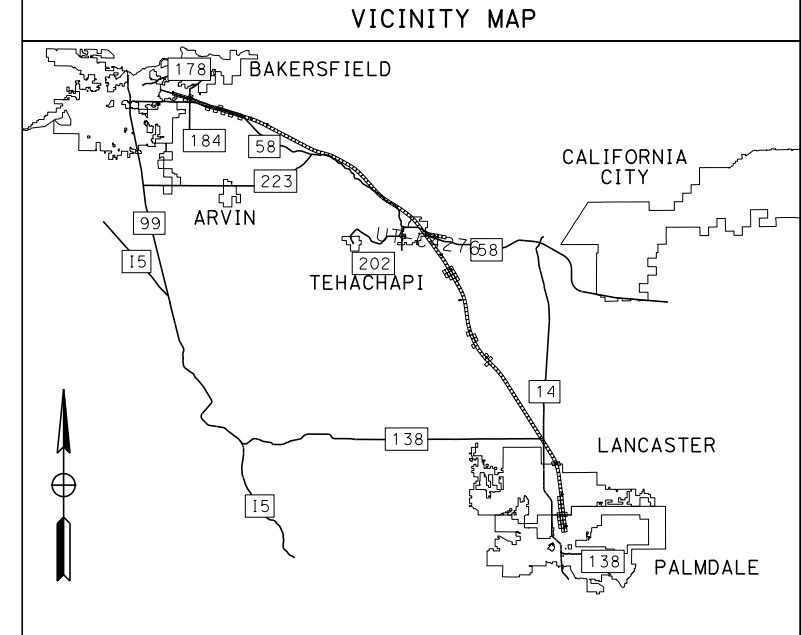
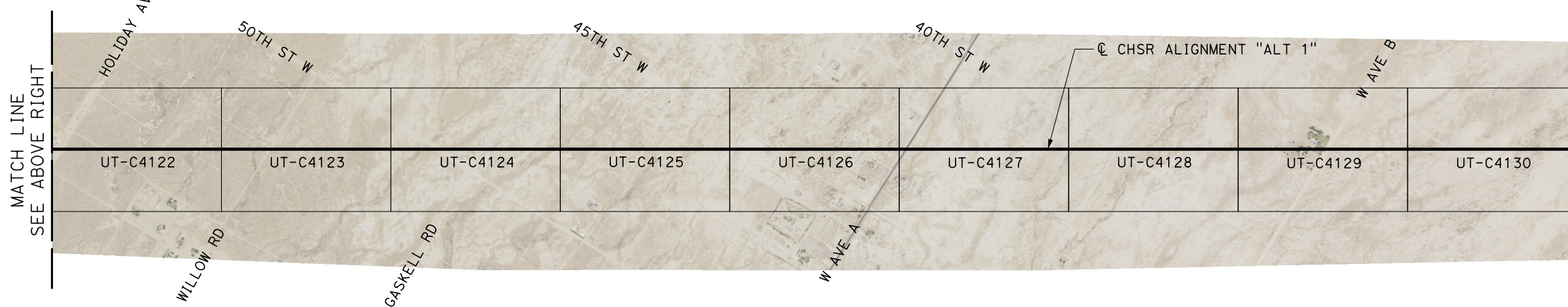
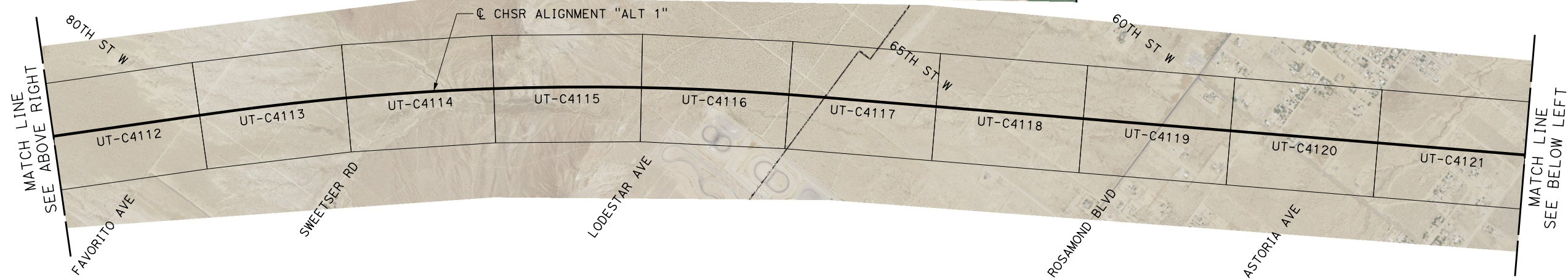
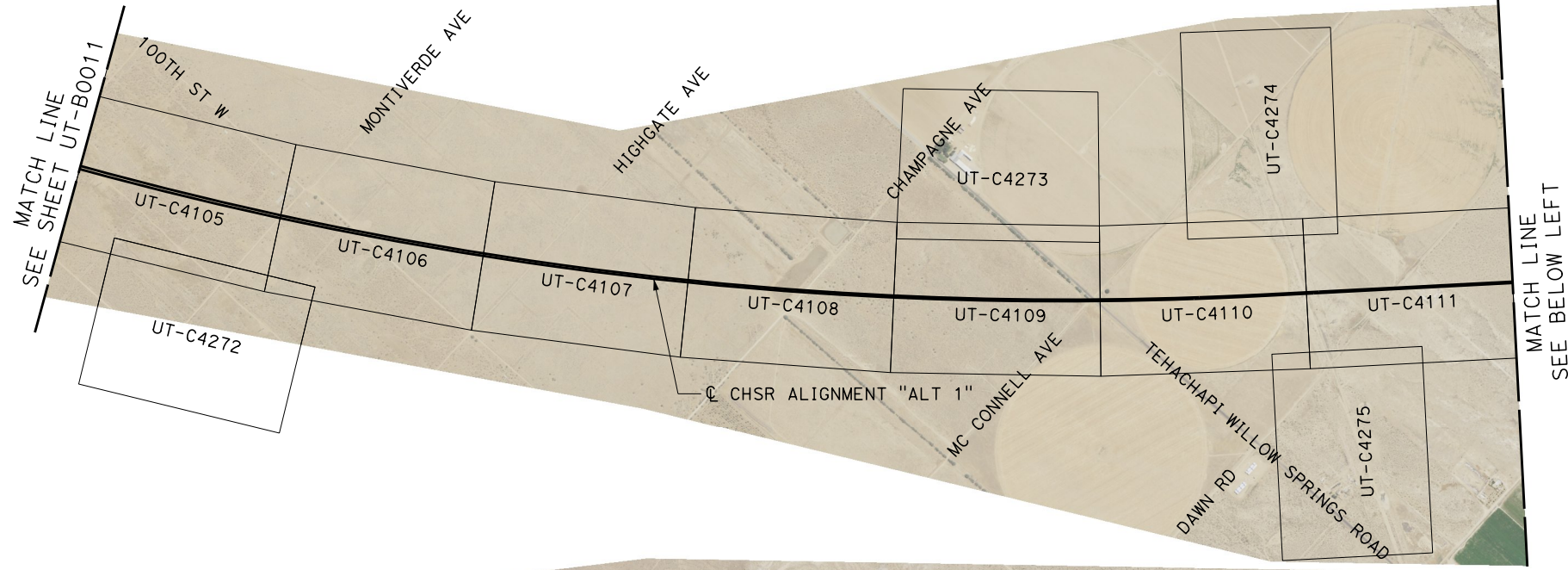
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 5 OF 7

CONTRACT NO.
HSR13-44

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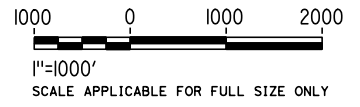
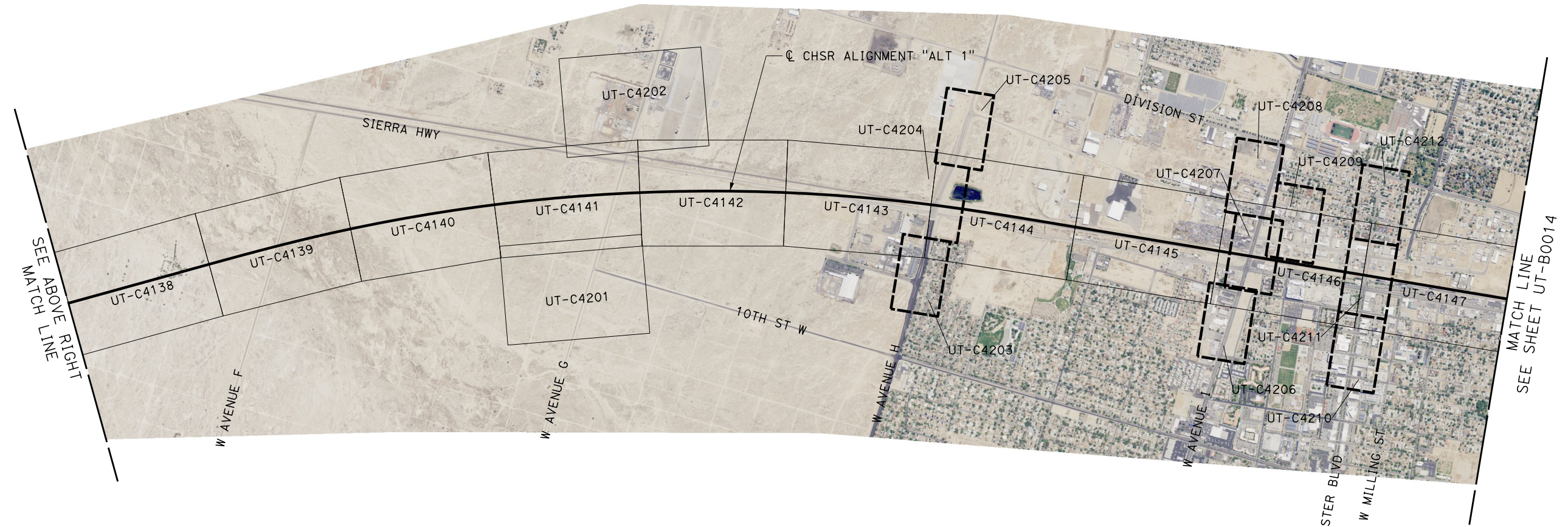
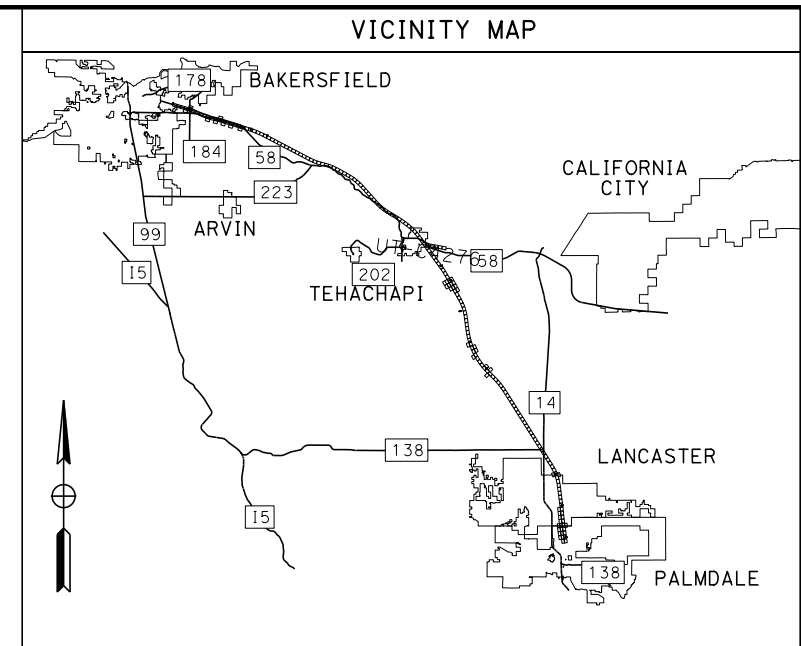
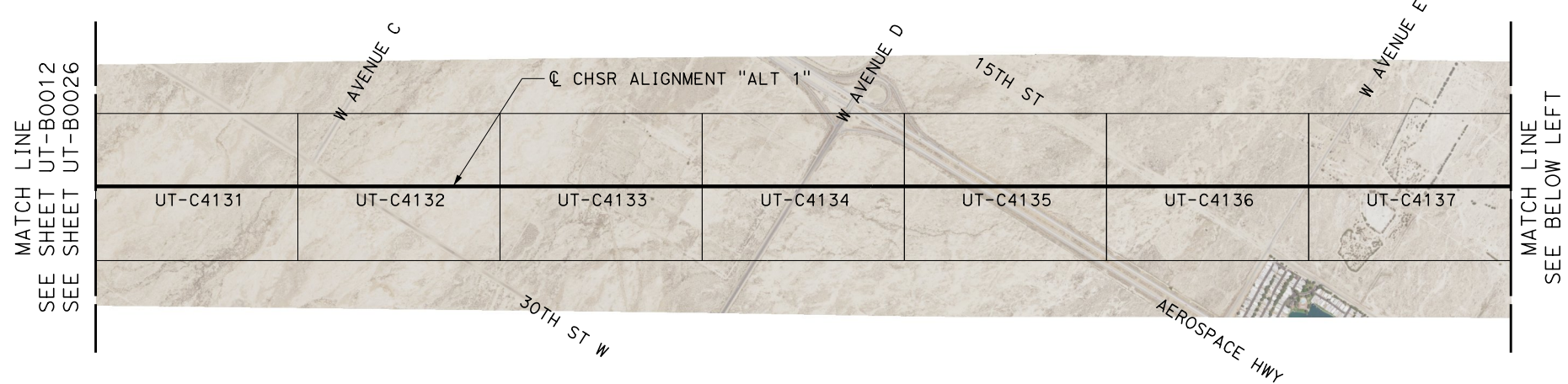
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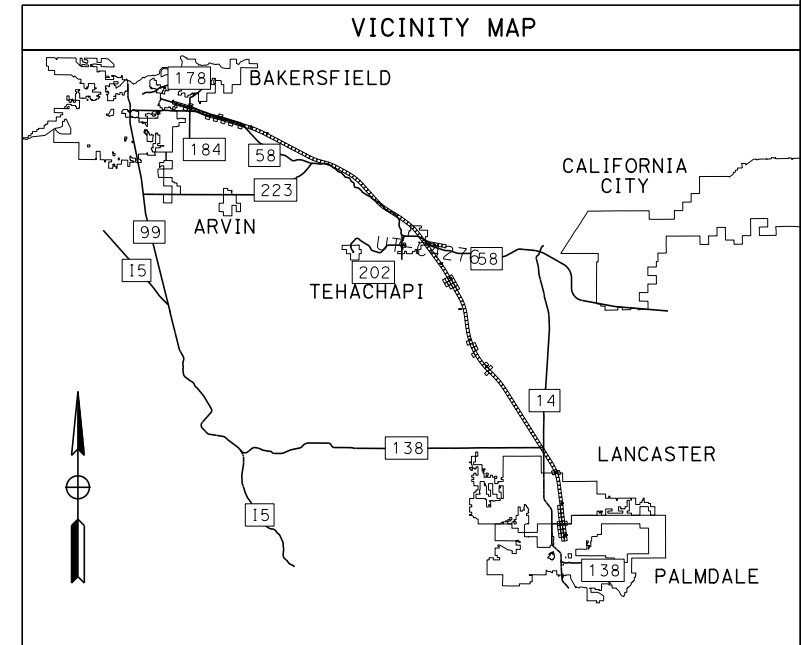
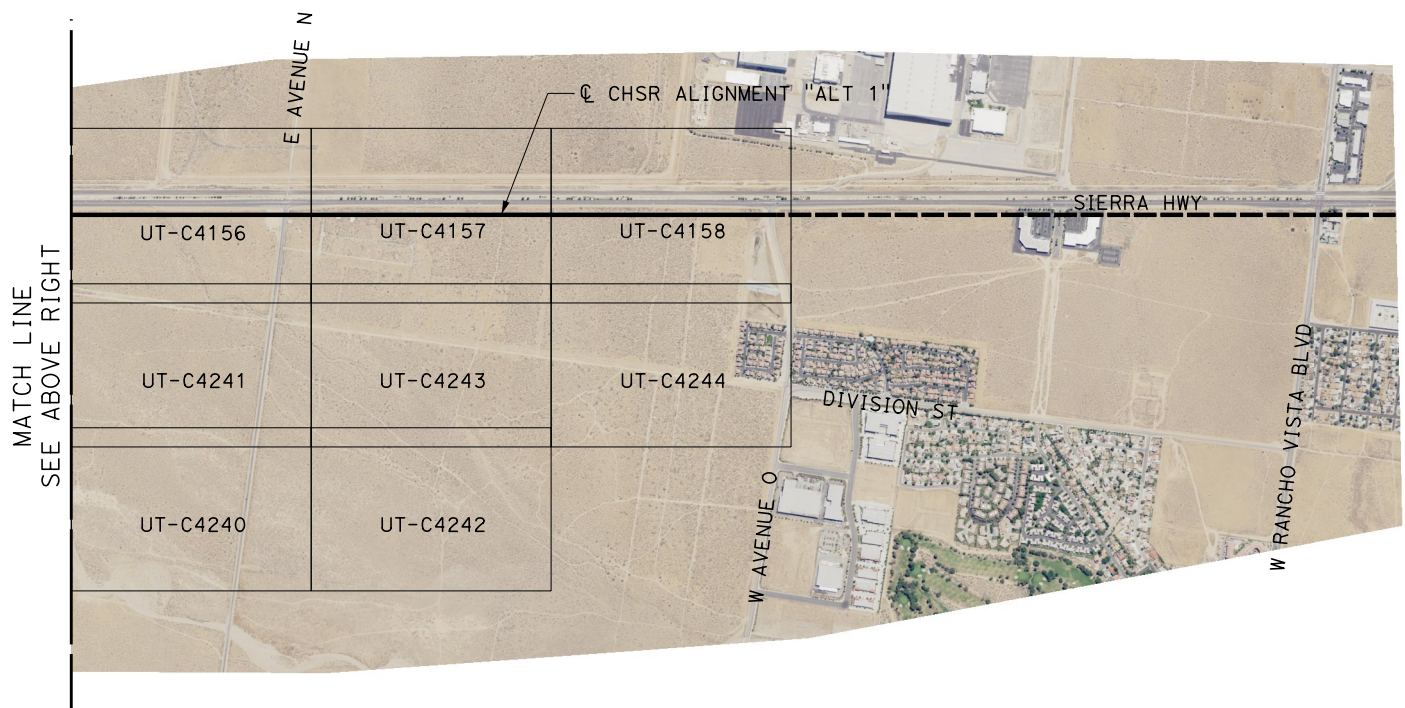
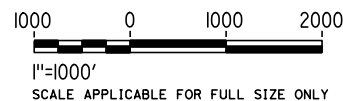
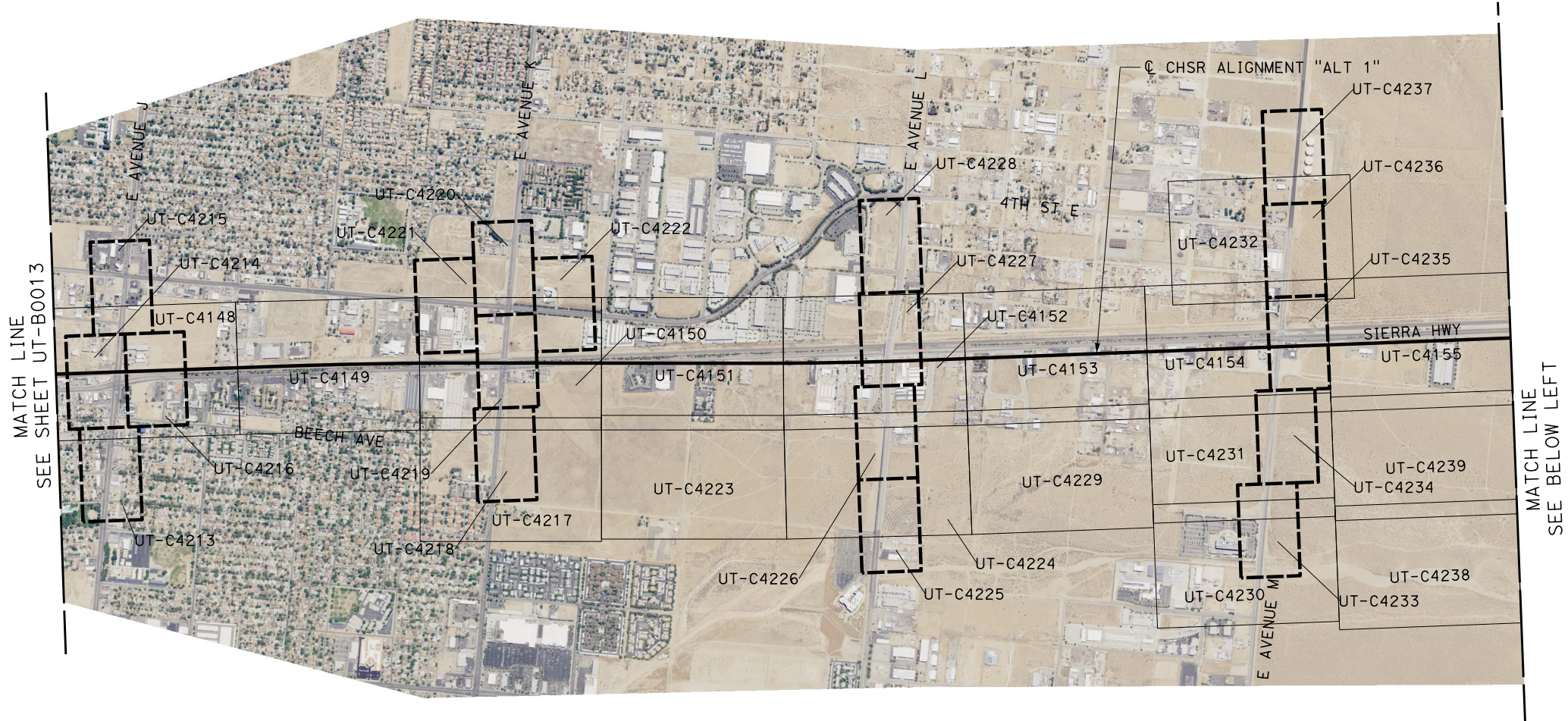
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 6 OF 7

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HSR13-44
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UT-B0013
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14

ALTERNATIVE 1



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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
ALTERNATIVE 1
KEY MAP
SHEET 7 OF 7

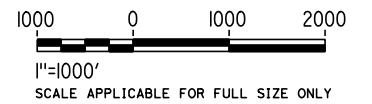
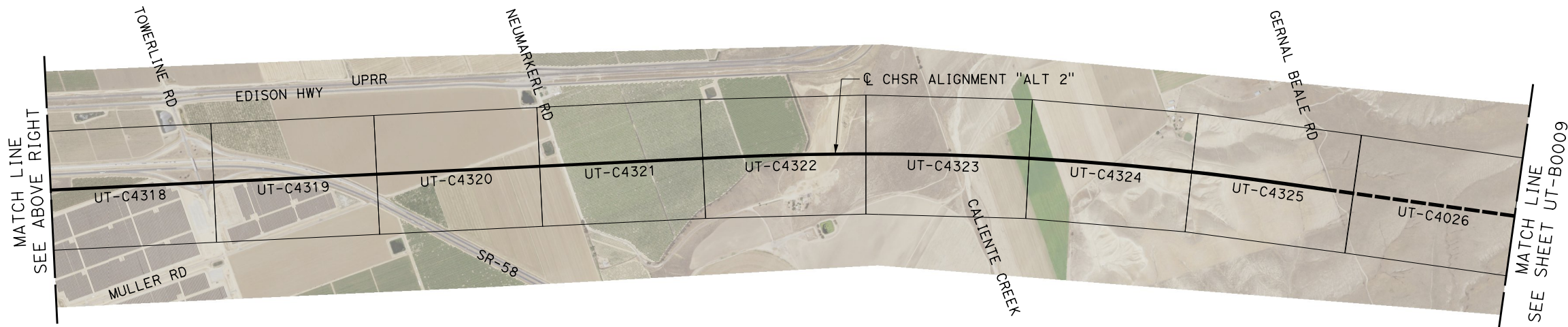
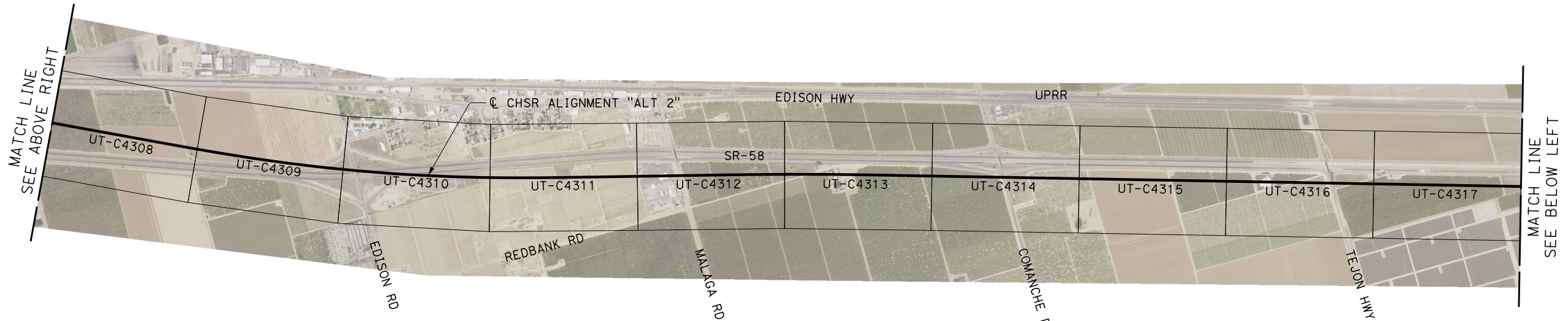
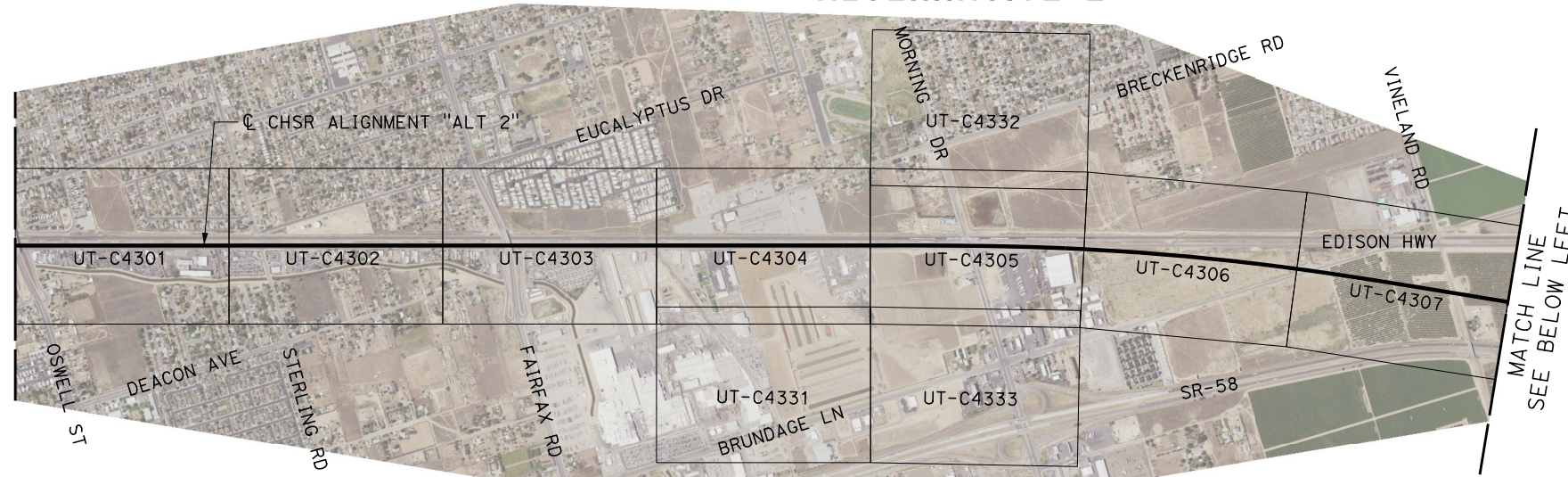
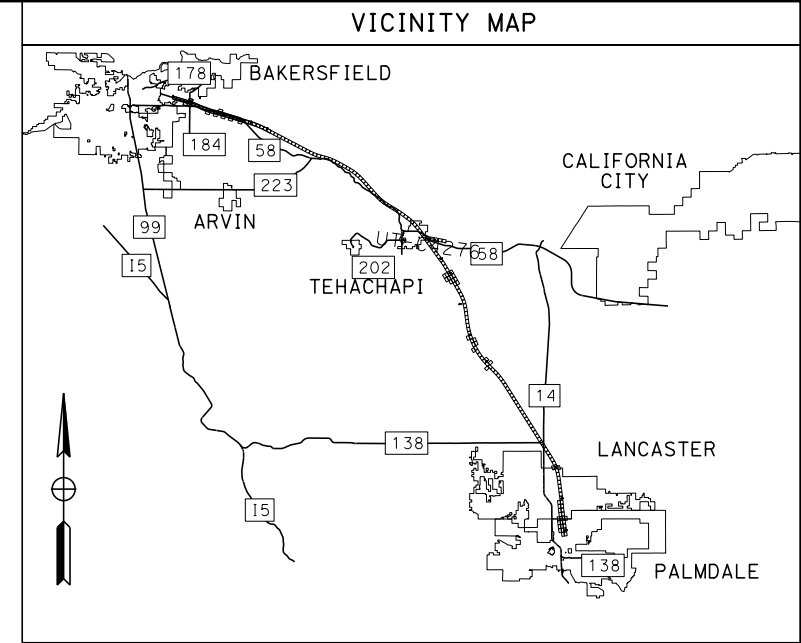
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UT-B0014

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15

ALTERNATIVE 2



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G. CAMPBELL
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G. CAMPBELL
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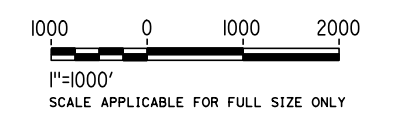
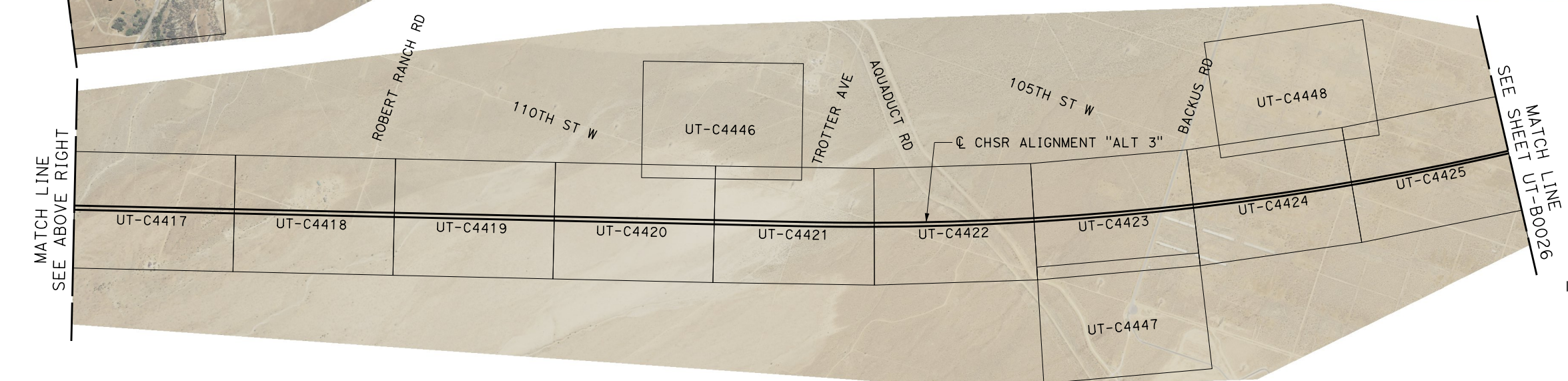
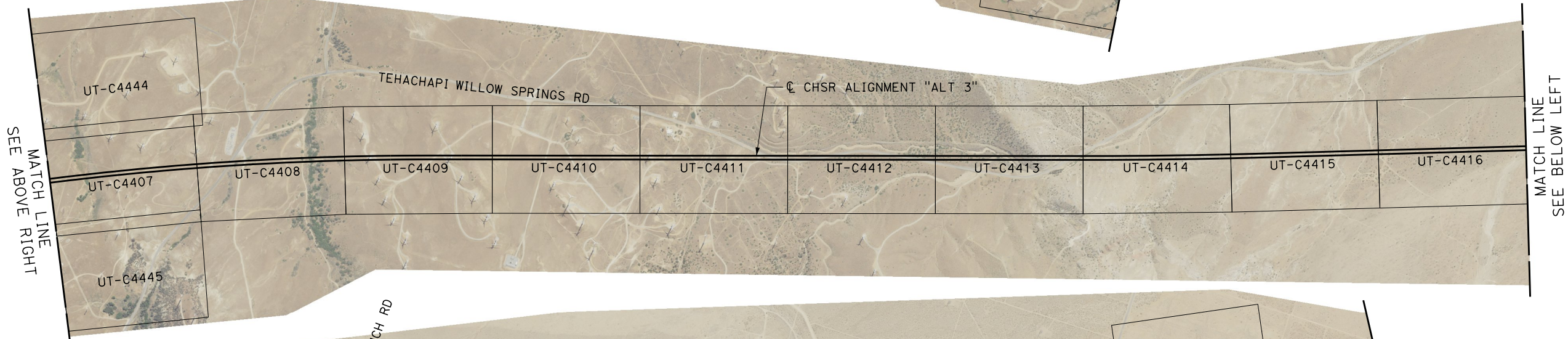
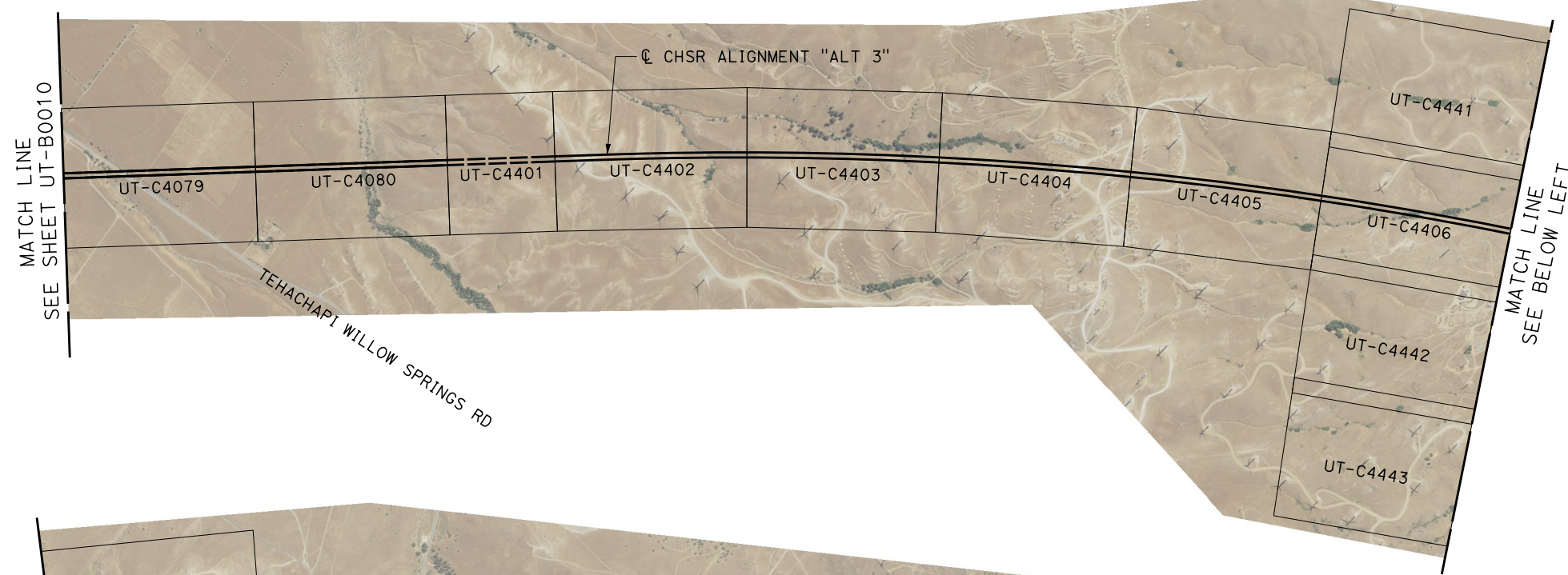
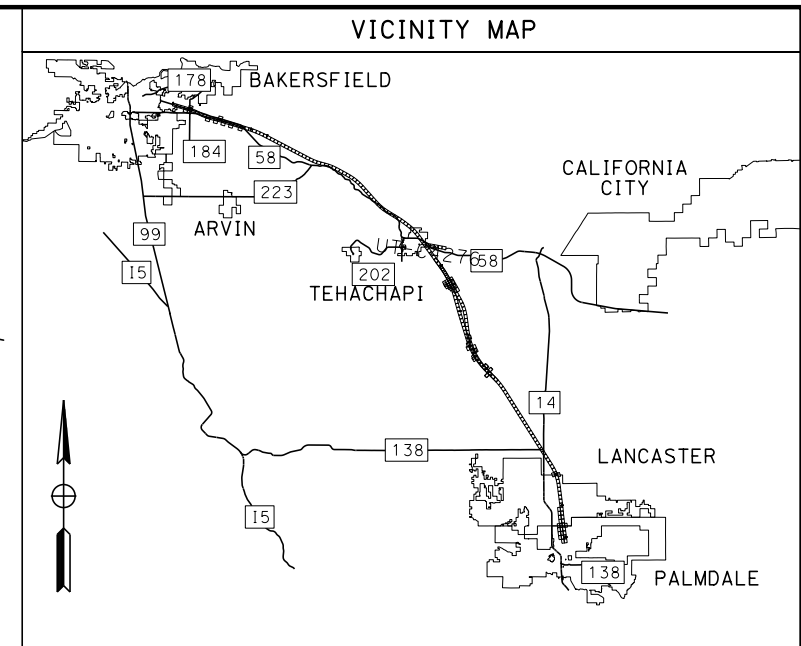
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0015
SCALE
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SHEET NO.
16

ALTERNATIVE 3



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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

COMPOSITE UTILITY PLANS
ALTERNATIVE 3
KEY MAP
SHEET 1 OF 2

CONTRACT NO.
HSR13-44

DRAWING NO.
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SCALE
AS SHOWN

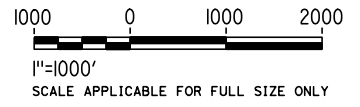
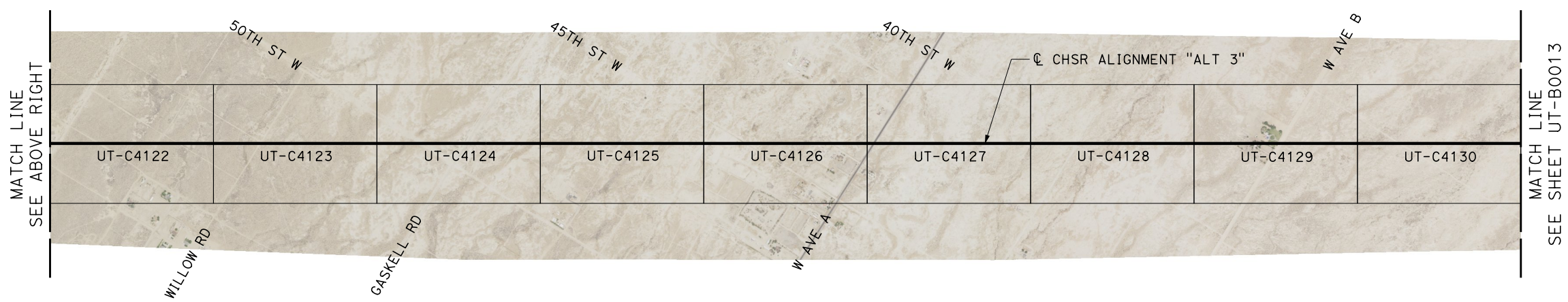
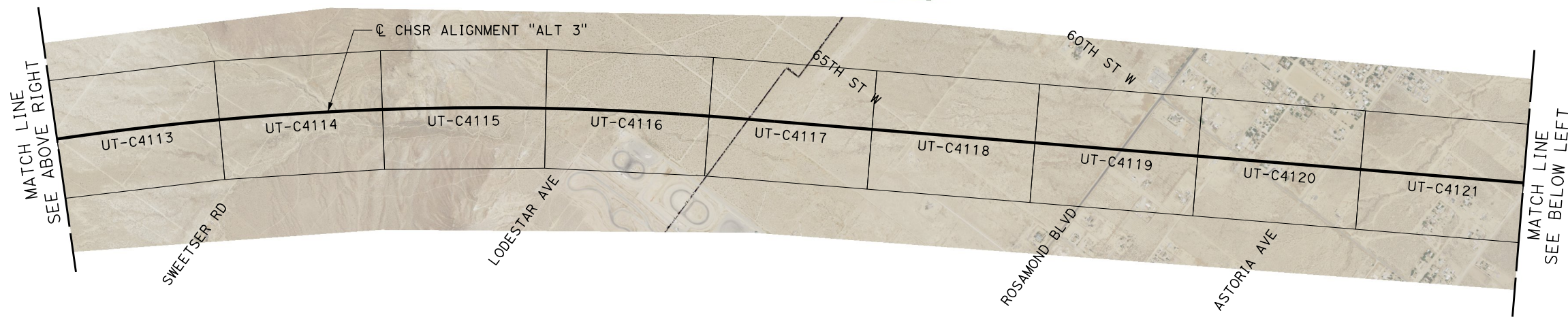
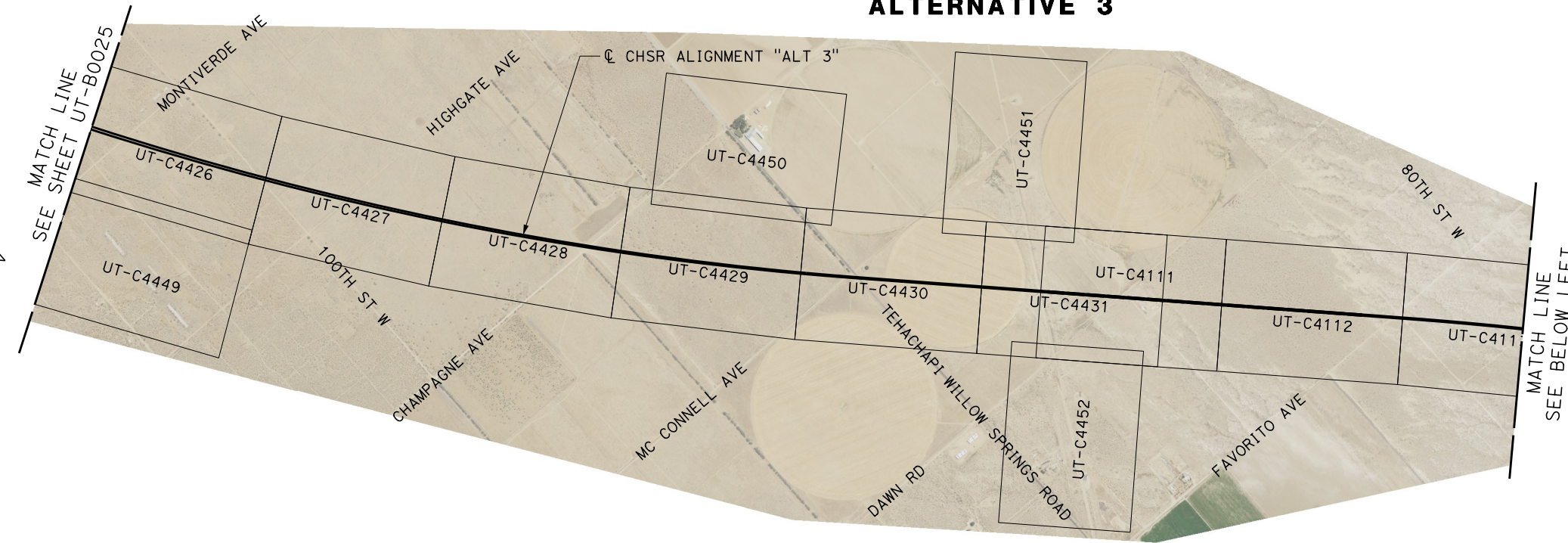
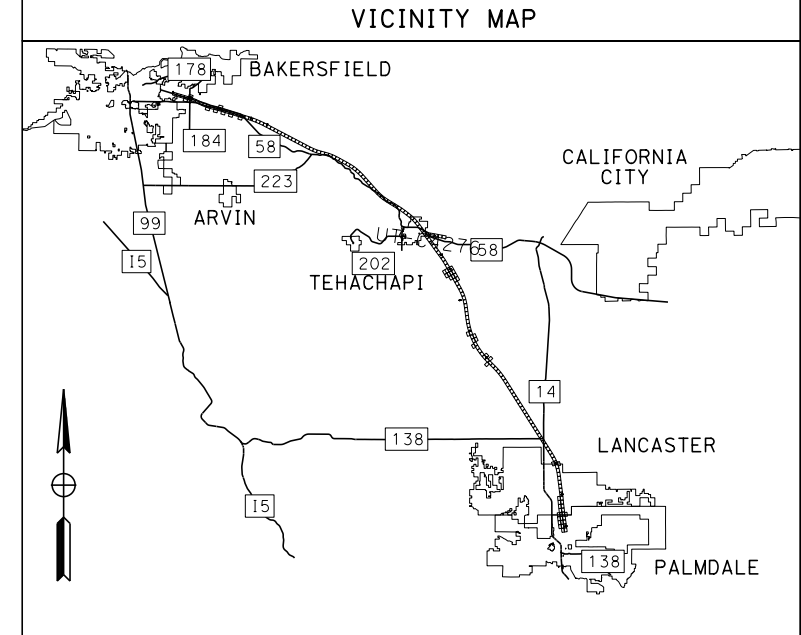
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17

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ALTERNATIVE 3



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D. HOLMAN
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J. LOPEZ
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
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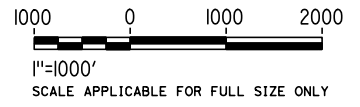
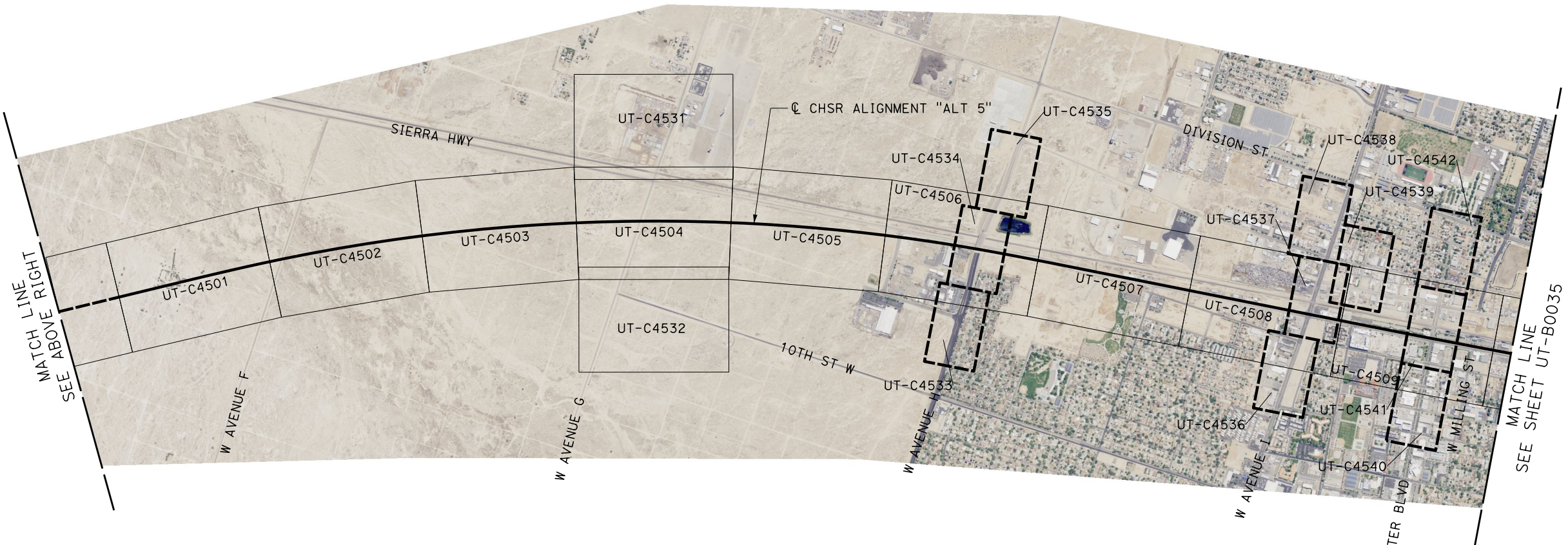
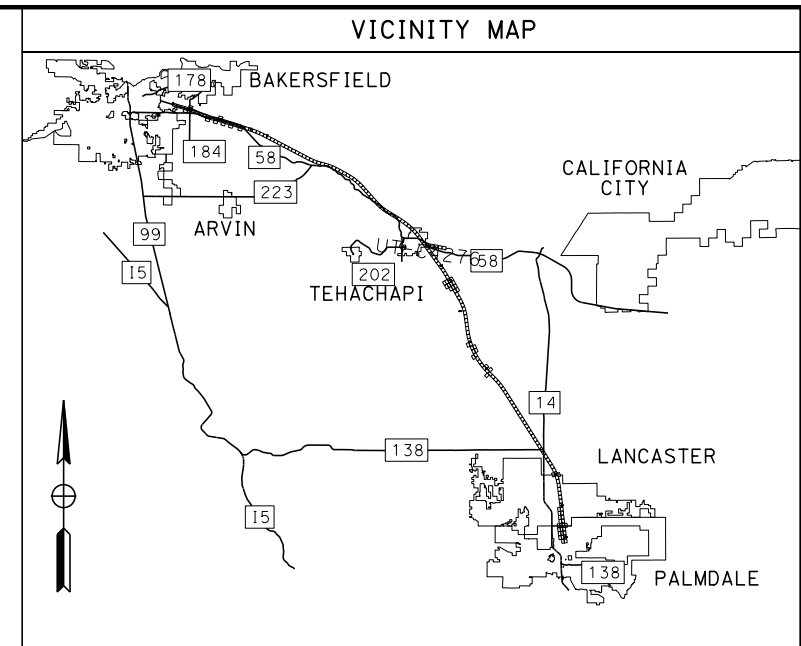
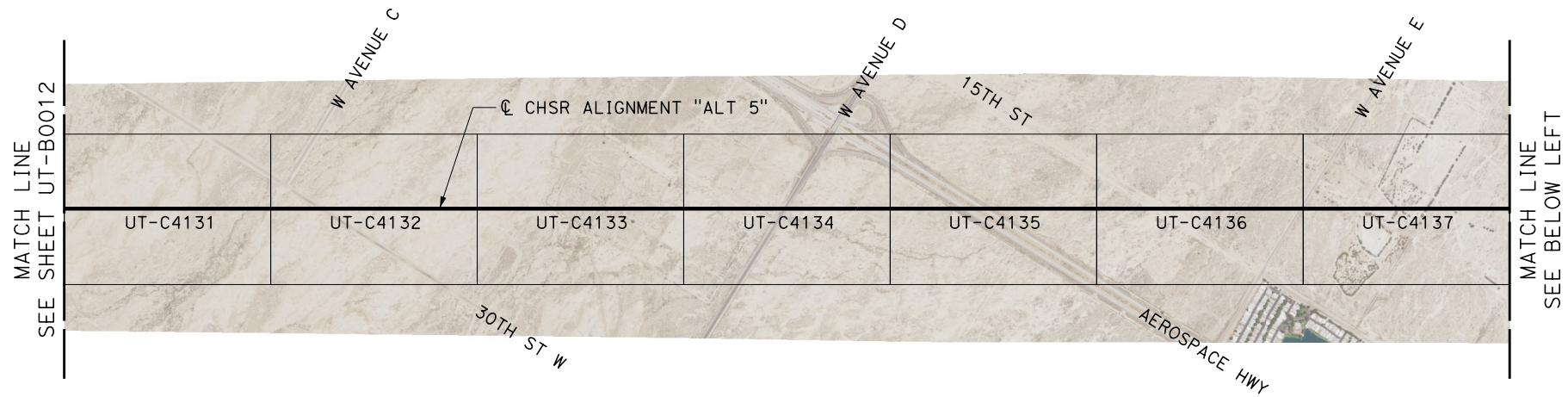


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

COMPOSITE UTILITY PLANS
ALTERNATIVE 3
KEY MAP
SHEET 2 OF 2

CONTRACT NO.
HSR13-44
DRAWING NO.
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18

ALTERNATIVE 5



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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 5
KEY MAP
SHEET 1 OF 2

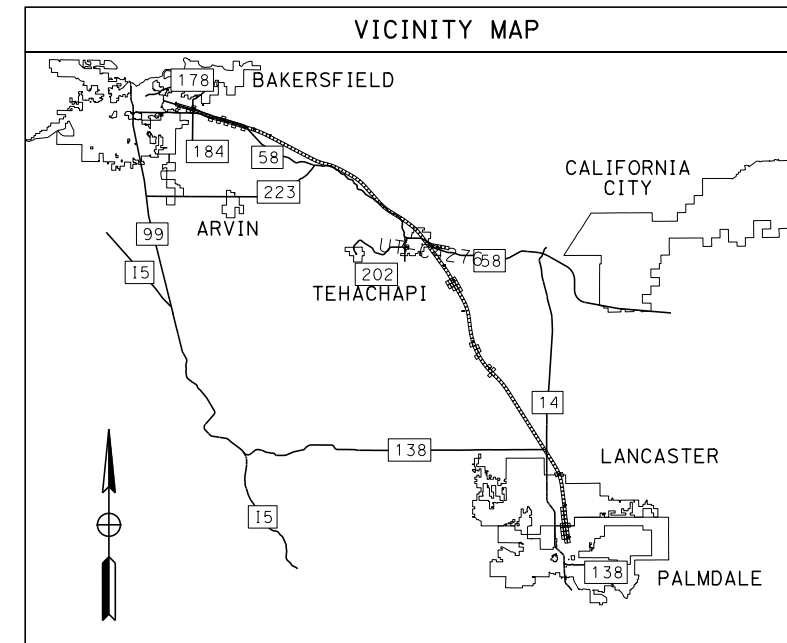
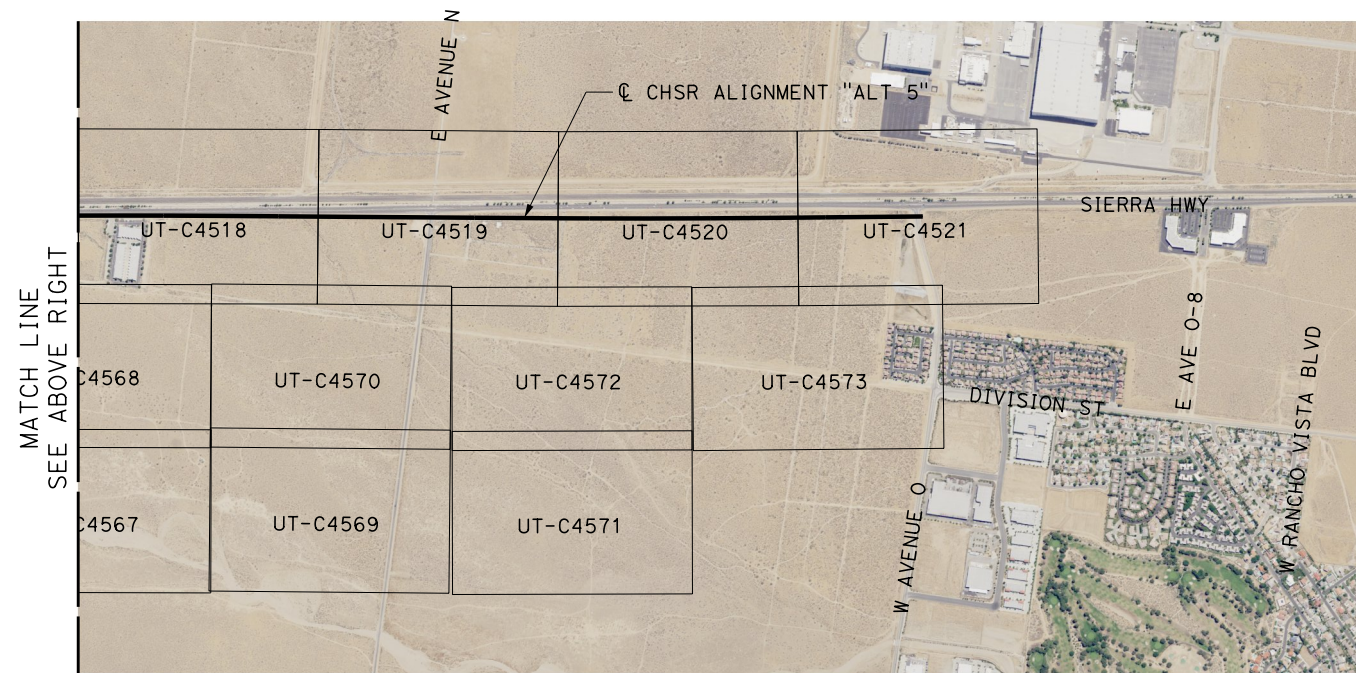
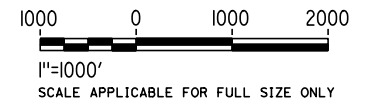
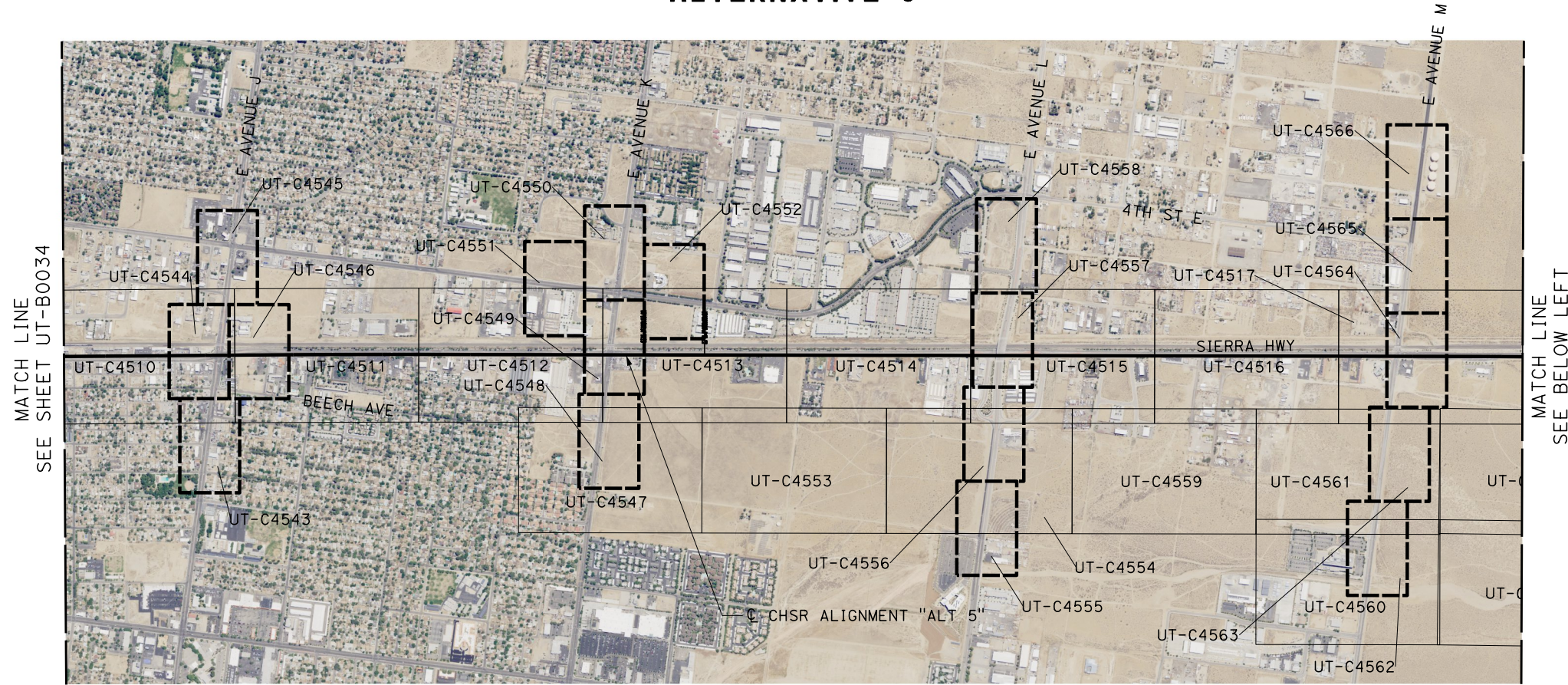
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UT-B0034

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ALTERNATIVE 5



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G. CAMPBELL

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 5
KEY MAP
SHEET 2 OF 2

CONTRACT NO.
HSR13-44

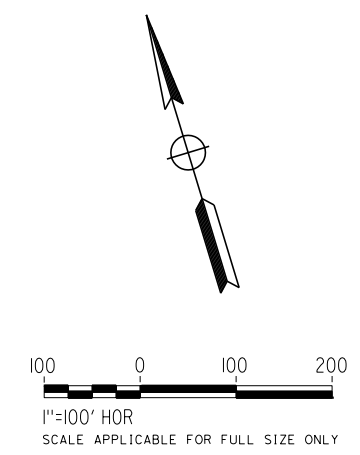
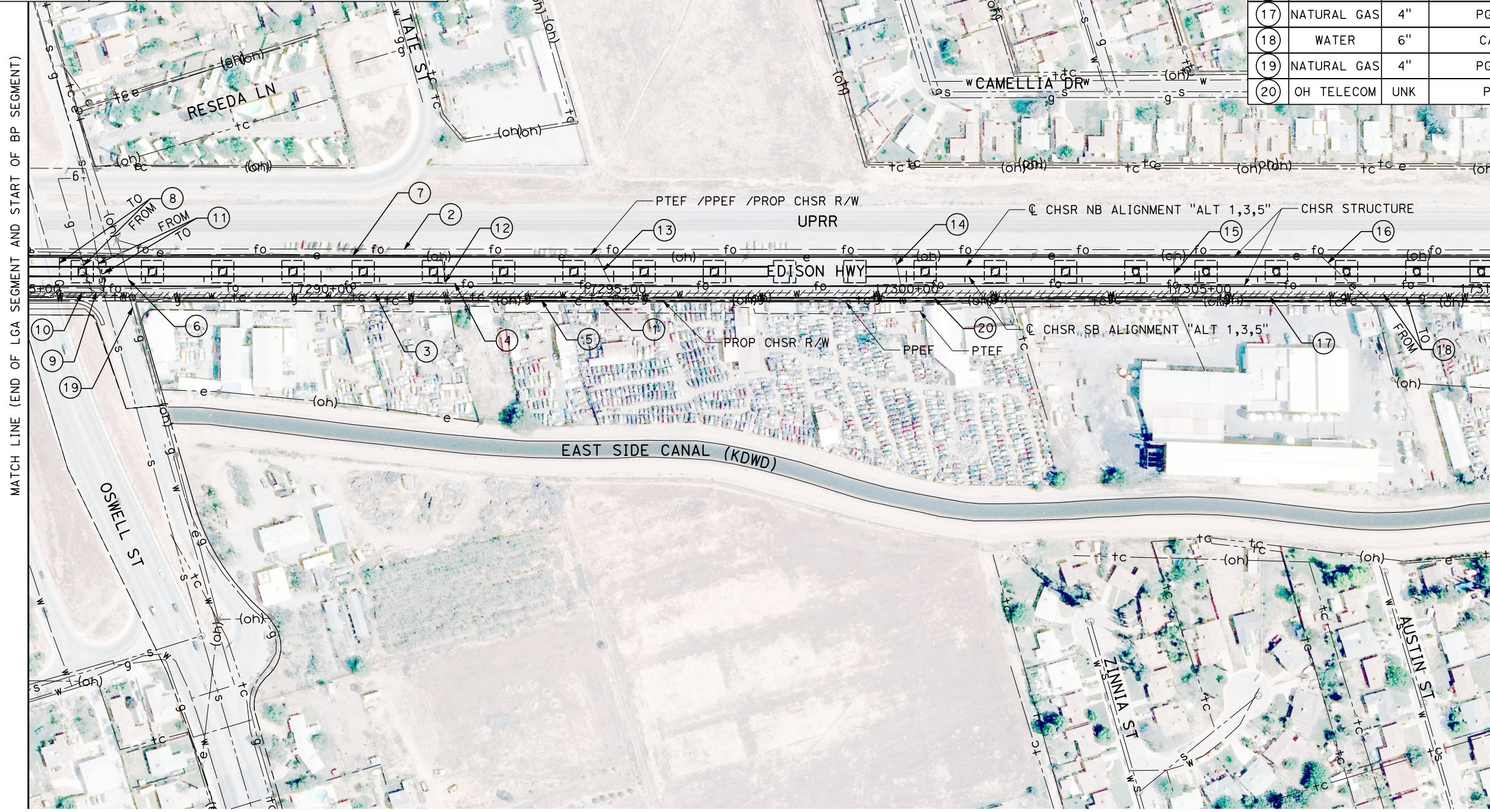
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UT-B0035

SCALE
AS SHOWN

SHEET NO.
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2	FIBER OPTIC	UNK	LEVEL 3	PROTECT IN PLACE
3	WATER	12"	CALWATER	PROTECT IN PLACE
4	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE
5	TELECOM	UNK	BRIGHTHOUSE	PROTECT IN PLACE
6	OH POWER	21kV	PG&E DIST	RELOCATE
7	OH POWER	12kV	PG&E DIST	RELOCATE
8	NATURAL GAS	6"	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
9	NATURAL GAS	3"	PG&E DIST	PROTECT IN PLACE
10	SEWER	8"	KSA	PROTECT IN PLACE
11	SEWER	15"	KSA	RELOCATE
12	OH POWER	12kV	PG&E DIST	RELOCATE
13	OH POWER	12kV	PG&E DIST	RELOCATE
14	OH POWER	12kV	PG&E DIST	RELOCATE
15	OH POWER	12kV	PG&E DIST	RELOCATE
16	OH POWER	12kV	PG&E DIST	RELOCATE
17	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
18	WATER	6"	CALWATER	RELOCATE
19	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
20	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE



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G. CAMPBELL

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G. CAMPBELL

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17285+00 TO 17310+00

CONTRACT NO.
HSR13-44

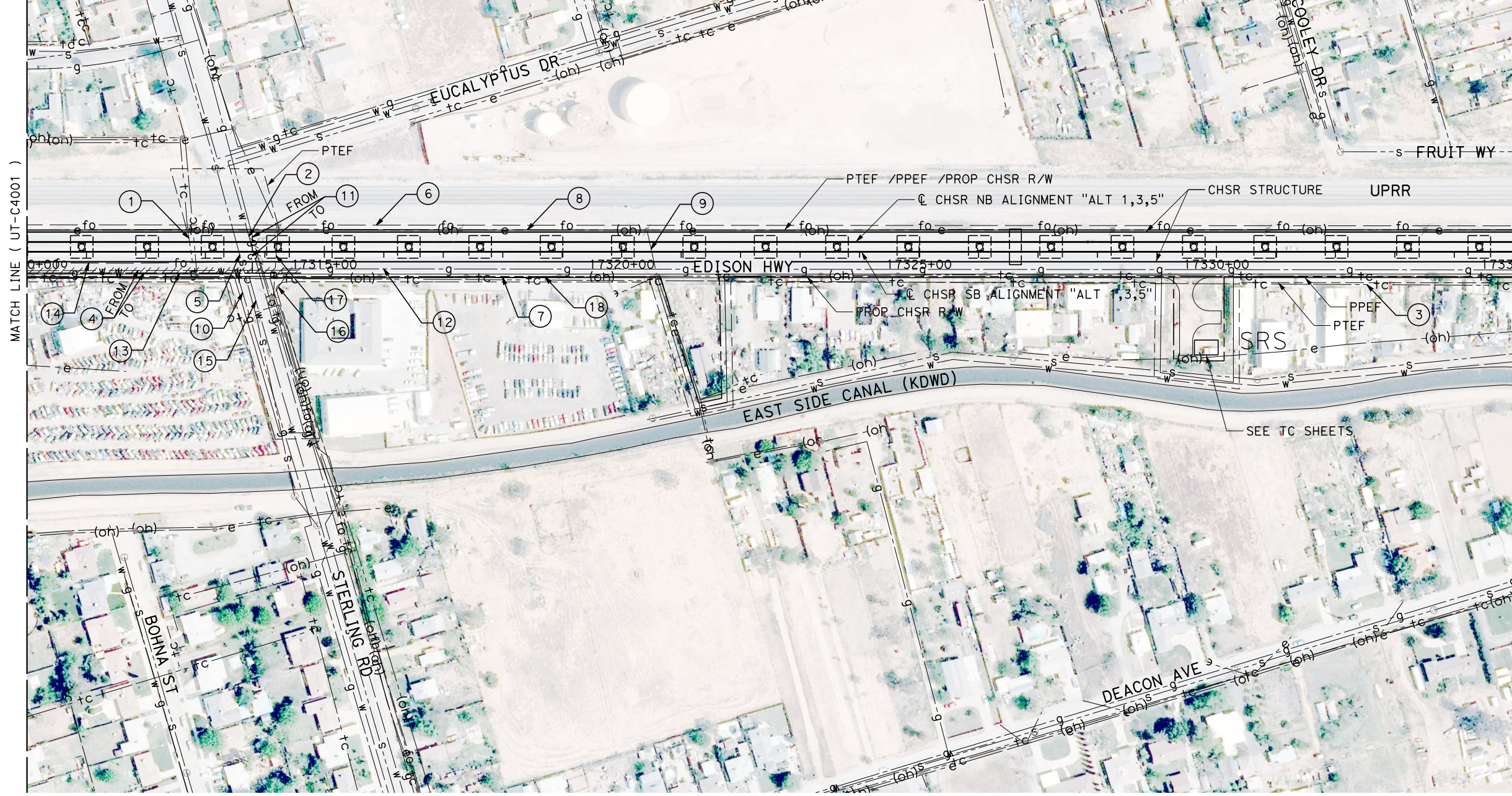
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UT-C4001

SCALE
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SHEET NO.
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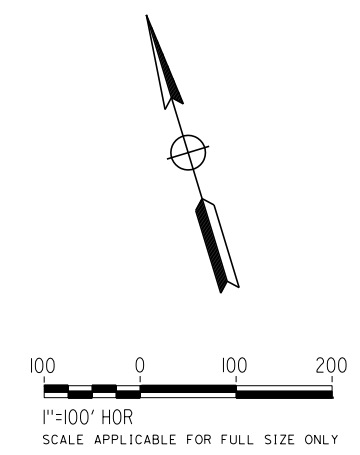
UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	TELECOM	UNK	BRIGHTHOUSE	RELOCATE
2	WATER	14"	ENCSD	PROTECT IN PLACE
3	TELECOM	UNK	PACBELL	PROTECT IN PLACE
4	WATER	6"	CALWATER	RELOCATE
5	SEWER	10"	ENCSD	PROTECT IN PLACE
6	FIBER OPTIC	UNK	SPRINT, LEVEL 3	PROTECT IN PLACE
7	OH TELECOM	UNK	BRIGHTHOUSE	PROTECT IN PLACE
8	OH POWER	12kV	PG&E DIST	RELOCATE
9	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
10	NATURAL GAS	6"	PG&E DIST	PROTECT IN PLACE
11	NATURAL GAS	3"	PG&E DIST	RELOCATE
12	NATURAL GAS	3"	PG&E DIST	PROTECT IN PLACE
13	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
14	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE
15	WATER	8"	CALWATER	PROTECT IN PLACE
16	OH TELECOM	UNK	BRIGHTHOUSE	PROTECT IN PLACE
17	OH POWER	21kV	PG&E DIST	RELOCATE
18	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE



MATCH LINE (UT-C4001)

MATCH LINE (UT-C4003)



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G. CAMPBELL
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G. CAMPBELL
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01/29/2021

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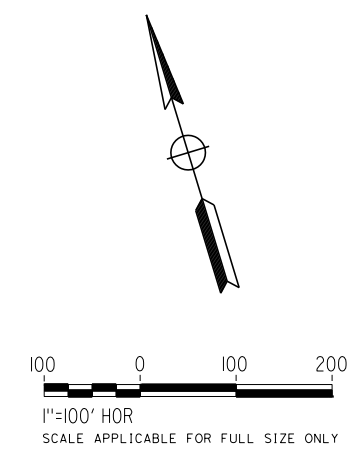
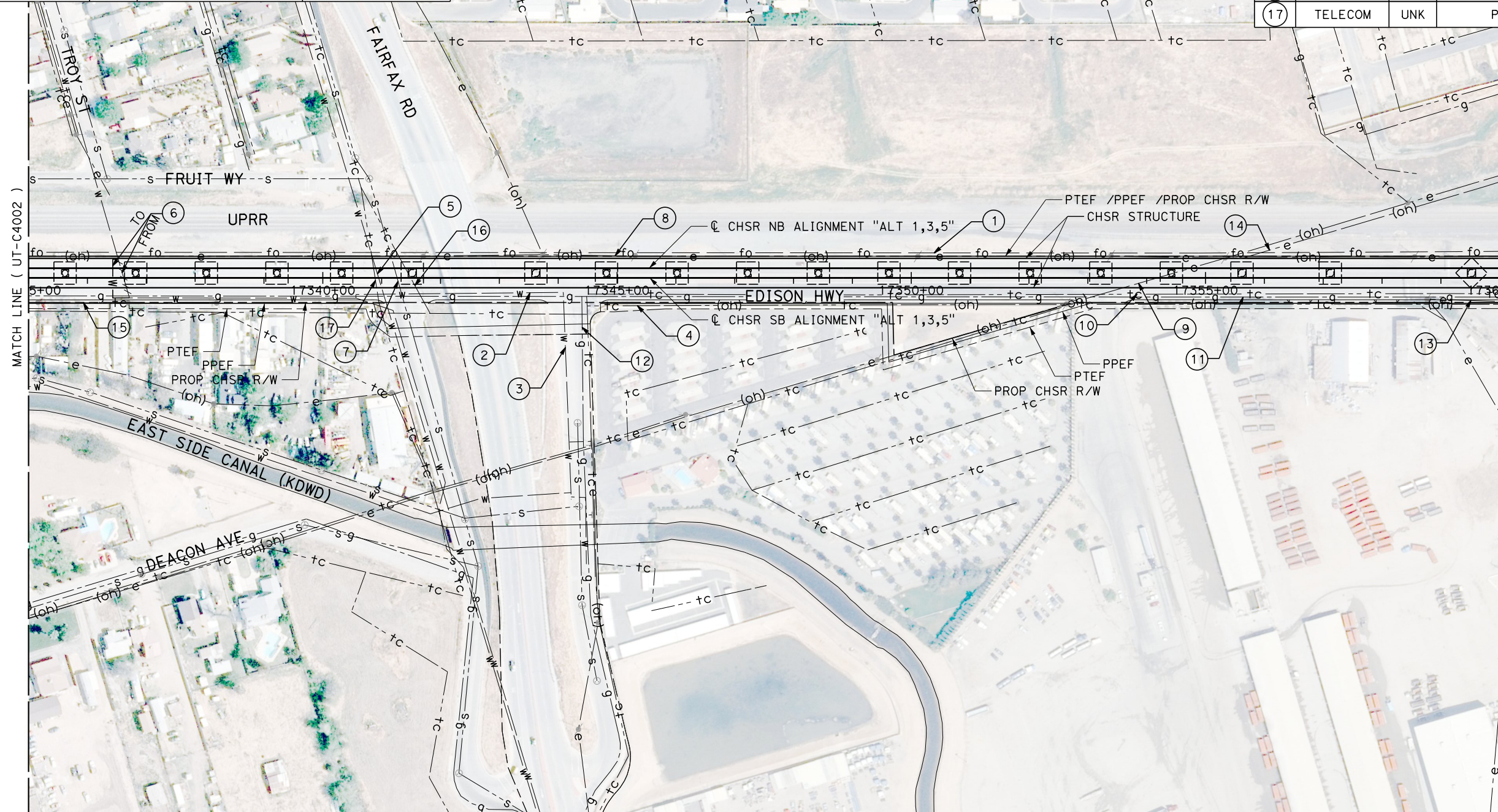


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17310+00 TO 17335+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C4002
SCALE
AS SHOWN
SHEET NO.
22

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UNK	SPRINT, LEVEL 3	PROTECT IN PLACE
2	WATER	10"	ENCSD	PROTECT IN PLACE
3	WATER	8"	ENCSD	PROTECT IN PLACE
4	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE
5	WATER	12"	ENCSD	PROTECT IN PLACE
6	WATER	4"	ENCSD	RELOCATE
7	SEWER	18"	ENCSD	PROTECT IN PLACE
8	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
9	OH POWER	21kV	PG&E DIST	RELOCATE
10	TELECOM	UNK	PACBELL	PROTECT IN PLACE
11	NATURAL GAS	3"	PG&E DIST	PROTECT IN PLACE
12	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
13	OH POWER	21kV	PG&E DIST	RELOCATE
14	OH POWER	12kV	PG&E DIST	RELOCATE
15	OH TELECOM	UNK	BRIGHTHOUSE	PROTECT IN PLACE
16	TELECOM	UNK	PACBELL	RELOCATE
17	TELECOM	UNK	PACBELL	PROTECT IN PLACE



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IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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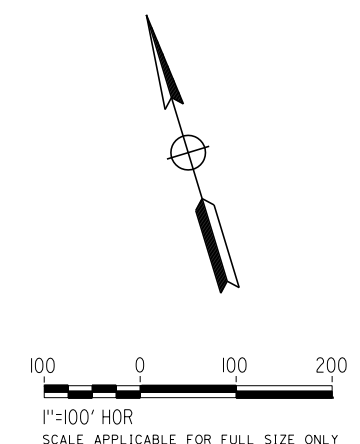
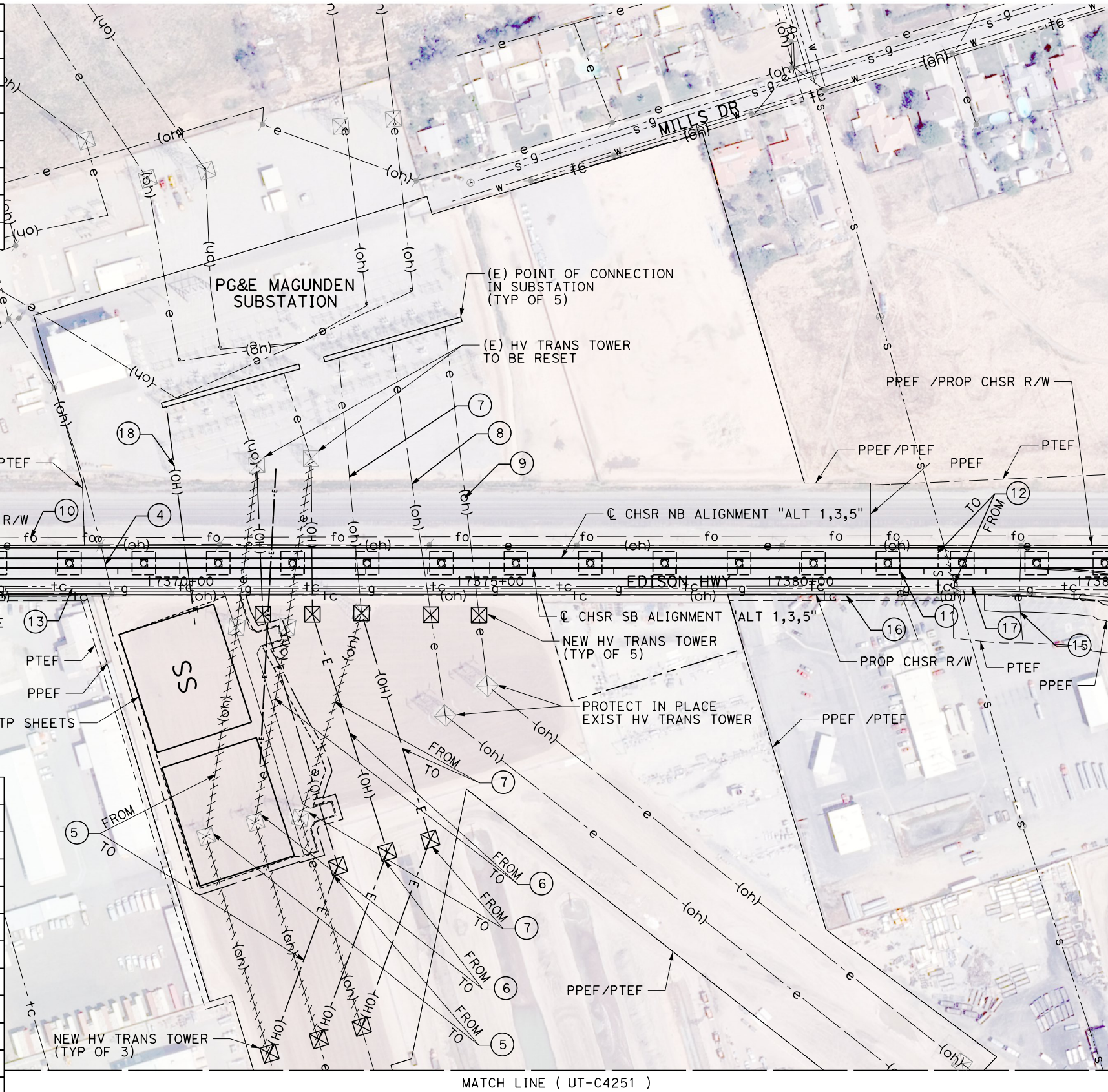


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17335+00 TO 17360+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C4003
SCALE
AS SHOWN
SHEET NO.
23

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	115kV	PG&E TRANS	RELOCATE
2	OH POWER	12kV	PG&E DIST	RELOCATE
3	OH POWER	21kV	PG&E DIST	RELOCATE
4	OH POWER	21kV	PG&E DIST	RELOCATE
5	OH POWER	220kV	SCE TRANS	RELOCATE
6	OH POWER	220kV	SCE TRANS	RELOCATE
7	OH POWER	220kV	SCE TRANS	RELOCATE

UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
8	OH POWER	220kV	SCE TRANS	RELOCATE
9	OH POWER	220kV	SCE TRANS	RELOCATE
10	FIBER OPTIC	UNK	SPRINT, LEVEL 3	PROTECT IN PLACE
11	OH POWER	12kV	PG&E DIST	RELOCATE
12	SEWER	21"	ENCSD	RELOCATE
13	NATURAL GAS	3"	PG&E DIST	PROTECT IN PLACE
14	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
15	OH POWER	12kV	PG&E DIST	RELOCATE
16	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE
17	TELECOM	UNK	PACBELL	PROTECT IN PLACE
18	TP ELEC SERVICE	115kV	CHSR	NEW



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G. CAMPBELL
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G. CAMPBELL
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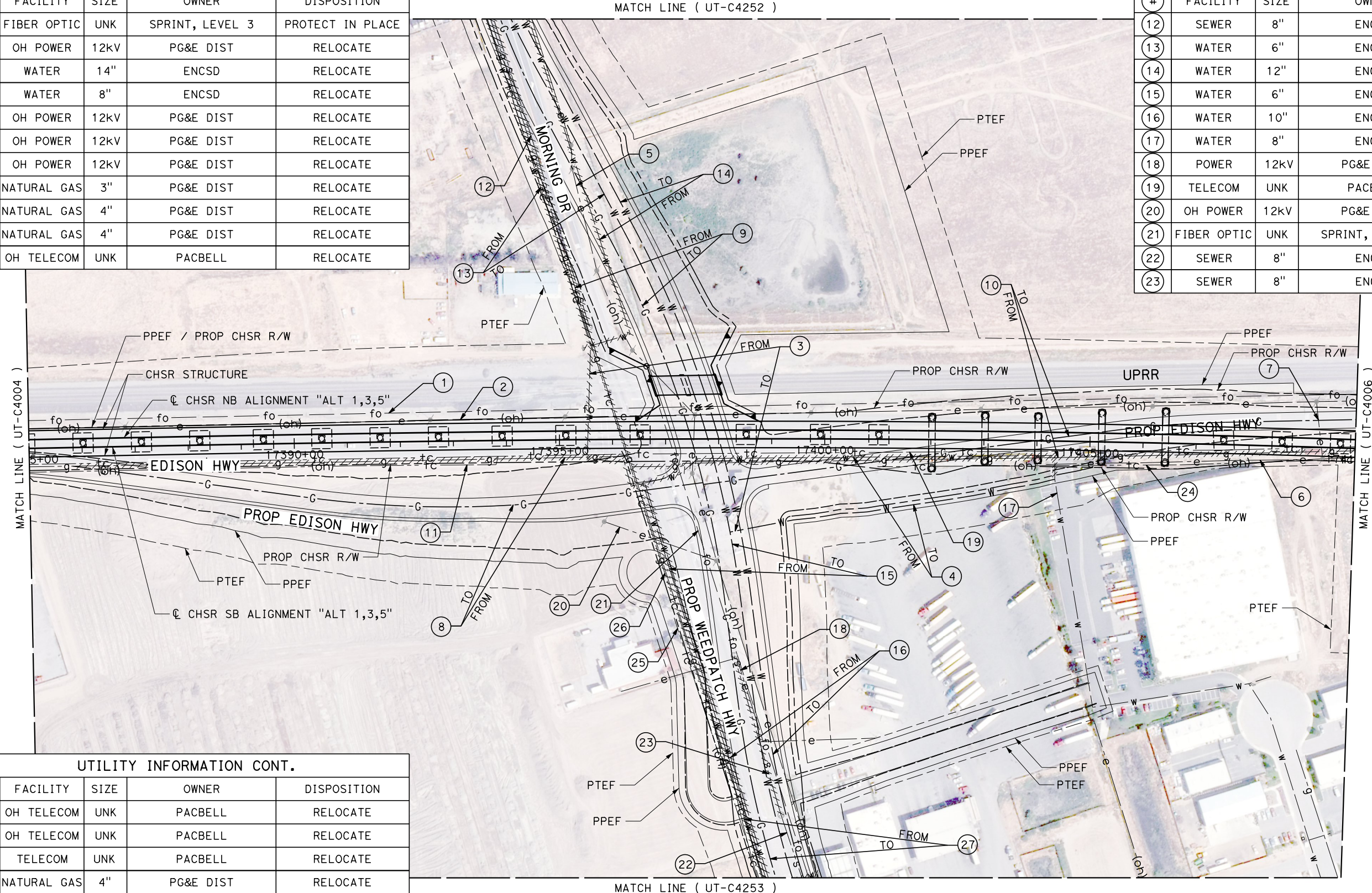
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17360+00 TO 17385+00

CONTRACT NO.
HSR13-44
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UT-C4004
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AS SHOWN
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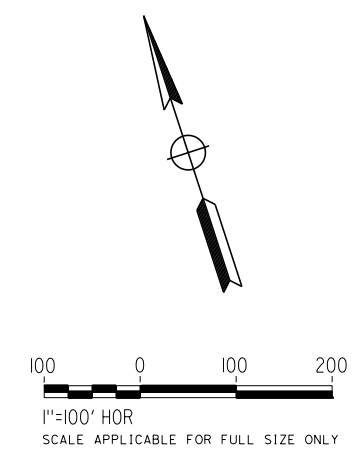
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UNK	SPRINT, LEVEL 3	PROTECT IN PLACE
2	OH POWER	12KV	PG&E DIST	RELOCATE
3	WATER	14"	ENCSD	RELOCATE
4	WATER	8"	ENCSD	RELOCATE
5	OH POWER	12KV	PG&E DIST	RELOCATE
6	OH POWER	12KV	PG&E DIST	RELOCATE
7	OH POWER	12KV	PG&E DIST	RELOCATE
8	NATURAL GAS	3"	PG&E DIST	RELOCATE
9	NATURAL GAS	4"	PG&E DIST	RELOCATE
10	NATURAL GAS	4"	PG&E DIST	RELOCATE
11	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
12	SEWER	8"	ENCSD	REMOVE
13	WATER	6"	ENCSD	RELOCATE
14	WATER	12"	ENCSD	RELOCATE
15	WATER	6"	ENCSD	RELOCATE
16	WATER	10"	ENCSD	RELOCATE
17	WATER	8"	ENCSD	PROTECT IN PLACE
18	POWER	12KV	PG&E DIST	RELOCATE
19	TELECOM	UNK	PACBELL	RELOCATE
20	OH POWER	12KV	PG&E DIST	RELOCATE
21	FIBER OPTIC	UNK	SPRINT, LEVEL 3	RELOCATE
22	SEWER	8"	ENCSD	PROTECT IN PLACE
23	SEWER	8"	ENCSD	REMOVE



UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
24	OH TELECOM	UNK	PACBELL	RELOCATE
25	OH TELECOM	UNK	PACBELL	RELOCATE
26	TELECOM	UNK	PACBELL	RELOCATE
27	NATURAL GAS	4"	PG&E DIST	RELOCATE



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J. LOPEZ
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G. CAMPBELL
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G. CAMPBELL
 DATE
01/29/2021

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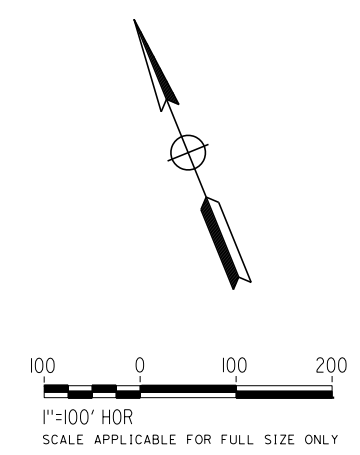
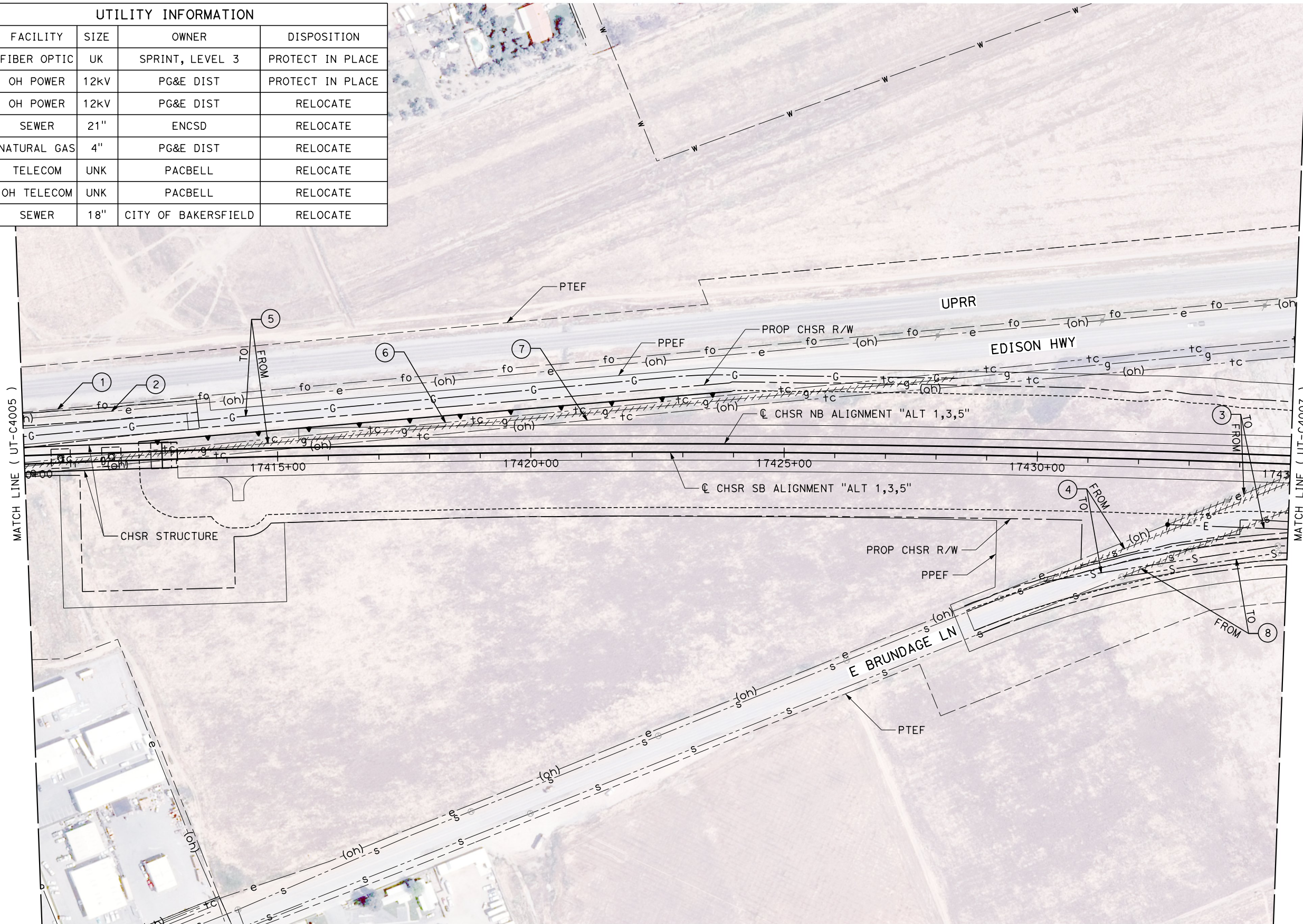
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17385+00 TO 17410+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4005
 SCALE
AS SHOWN
 SHEET NO.
25

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UK	SPRINT, LEVEL 3	PROTECT IN PLACE
2	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE
3	OH POWER	12KV	PG&E DIST	RELOCATE
4	SEWER	21"	ENCSD	RELOCATE
5	NATURAL GAS	4"	PG&E DIST	RELOCATE
6	TELECOM	UNK	PACBELL	RELOCATE
7	OH TELECOM	UNK	PACBELL	RELOCATE
8	SEWER	18"	CITY OF BAKERSFIELD	RELOCATE



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G. CAMPBELL

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17410+00 TO 17435+00

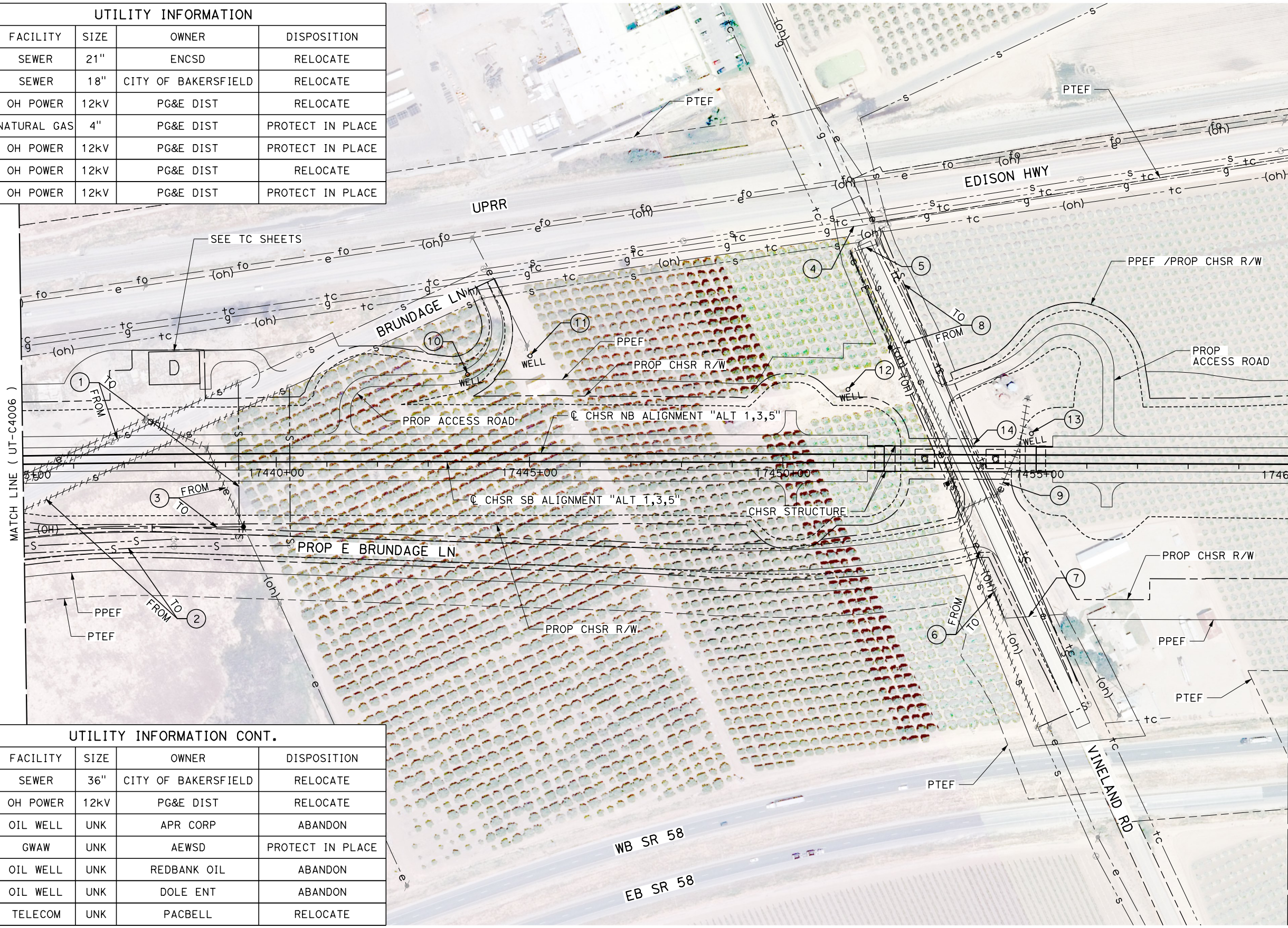
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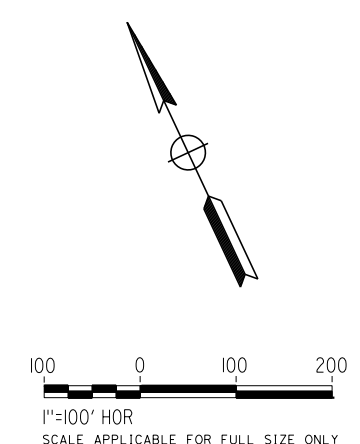
SCALE
AS SHOWN

SHEET NO.
26

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	SEWER	21"	ENCSD	RELOCATE
2	SEWER	18"	CITY OF BAKERSFIELD	RELOCATE
3	OH POWER	12KV	PG&E DIST	RELOCATE
4	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
5	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE
6	OH POWER	12KV	PG&E DIST	RELOCATE
7	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION
8	SEWER	36"	CITY OF BAKERSFIELD	RELOCATE
9	OH POWER	12KV	PG&E DIST	RELOCATE
10	OIL WELL	UNK	APR CORP	ABANDON
11	GWAW	UNK	AEWSO	PROTECT IN PLACE
12	OIL WELL	UNK	REDBANK OIL	ABANDON
13	OIL WELL	UNK	DOLE ENT	ABANDON
14	TELECOM	UNK	PACBELL	RELOCATE



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G. CAMPBELL
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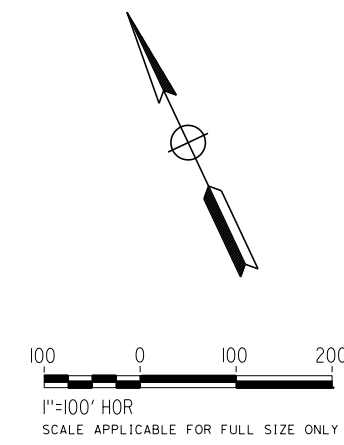
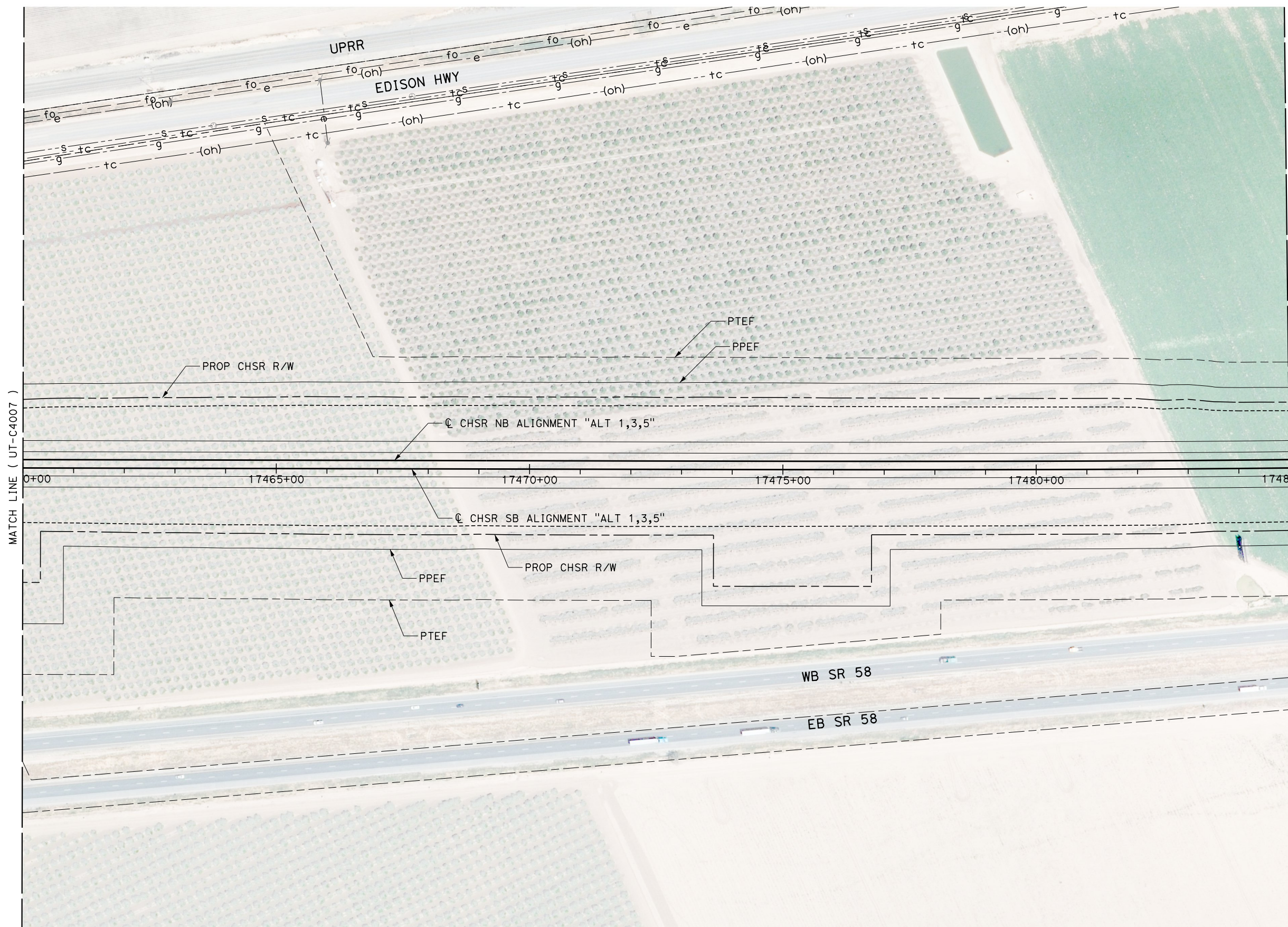
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17435+00 TO 17460+00

CONTRACT NO.
HSR13-44
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UT-C4007
SCALE
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27

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J. LOPEZ
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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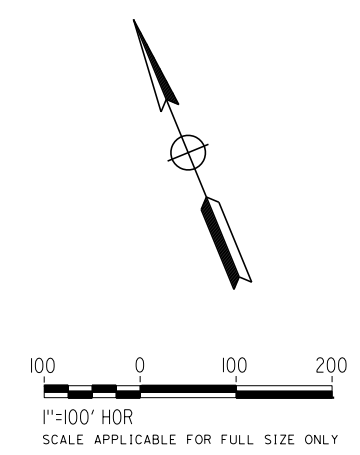
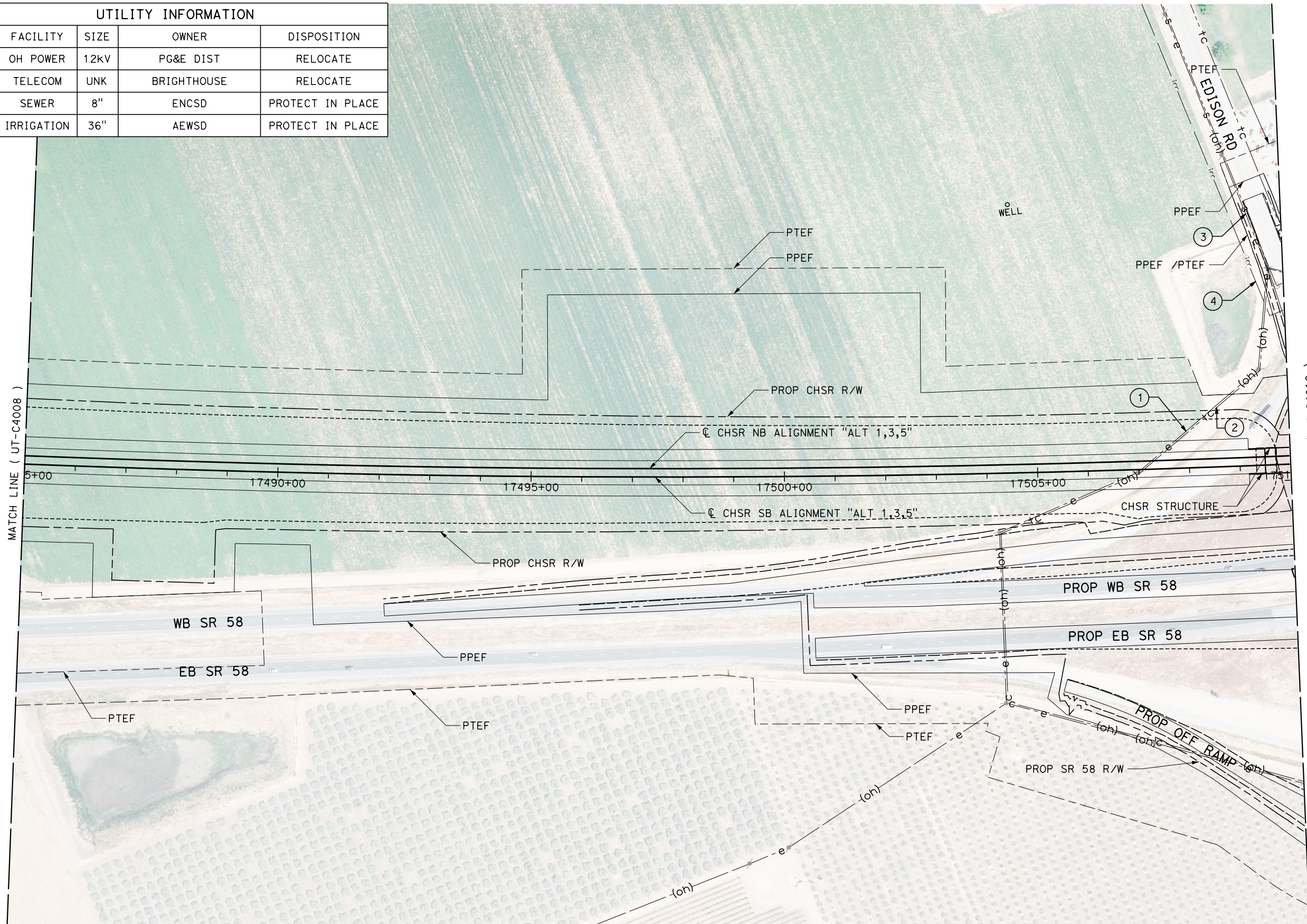
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17460+00 TO 17485+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C4008
SCALE
AS SHOWN
SHEET NO.
28

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E DIST	RELOCATE
2	TELECOM	UNK	BRIGHTHOUSE	RELOCATE
3	SEWER	8"	ENCSD	PROTECT IN PLACE
4	IRRIGATION	36"	AEWSD	PROTECT IN PLACE



1/23/2021 3:00:33 AM
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D. HOLMAN
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J. LOPEZ
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
01/29/2021

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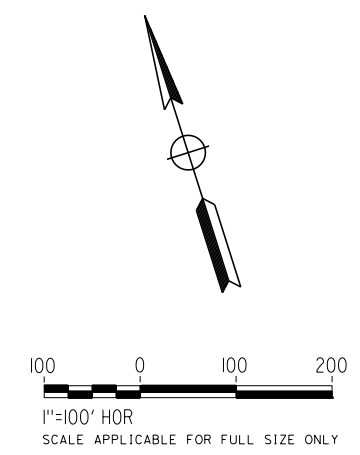
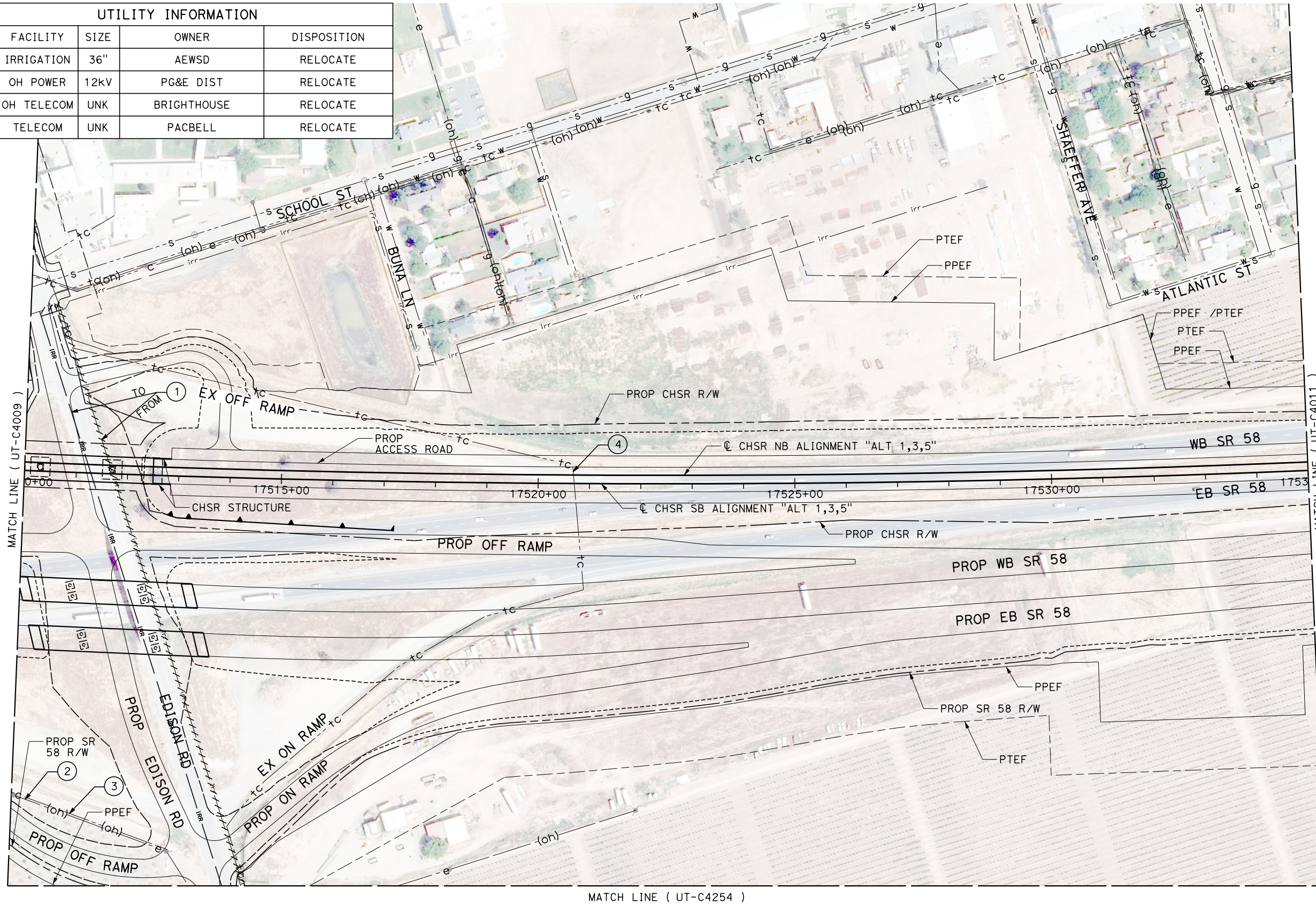
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17485+00 TO 17510+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4009
 SCALE
AS SHOWN
 SHEET NO.
29

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	36"	AEWS	RELOCATE
2	OH POWER	12KV	PG&E DIST	RELOCATE
3	OH TELECOM	UNK	BRIGHTHOUSE	RELOCATE
4	TELECOM	UNK	PACBELL	RELOCATE



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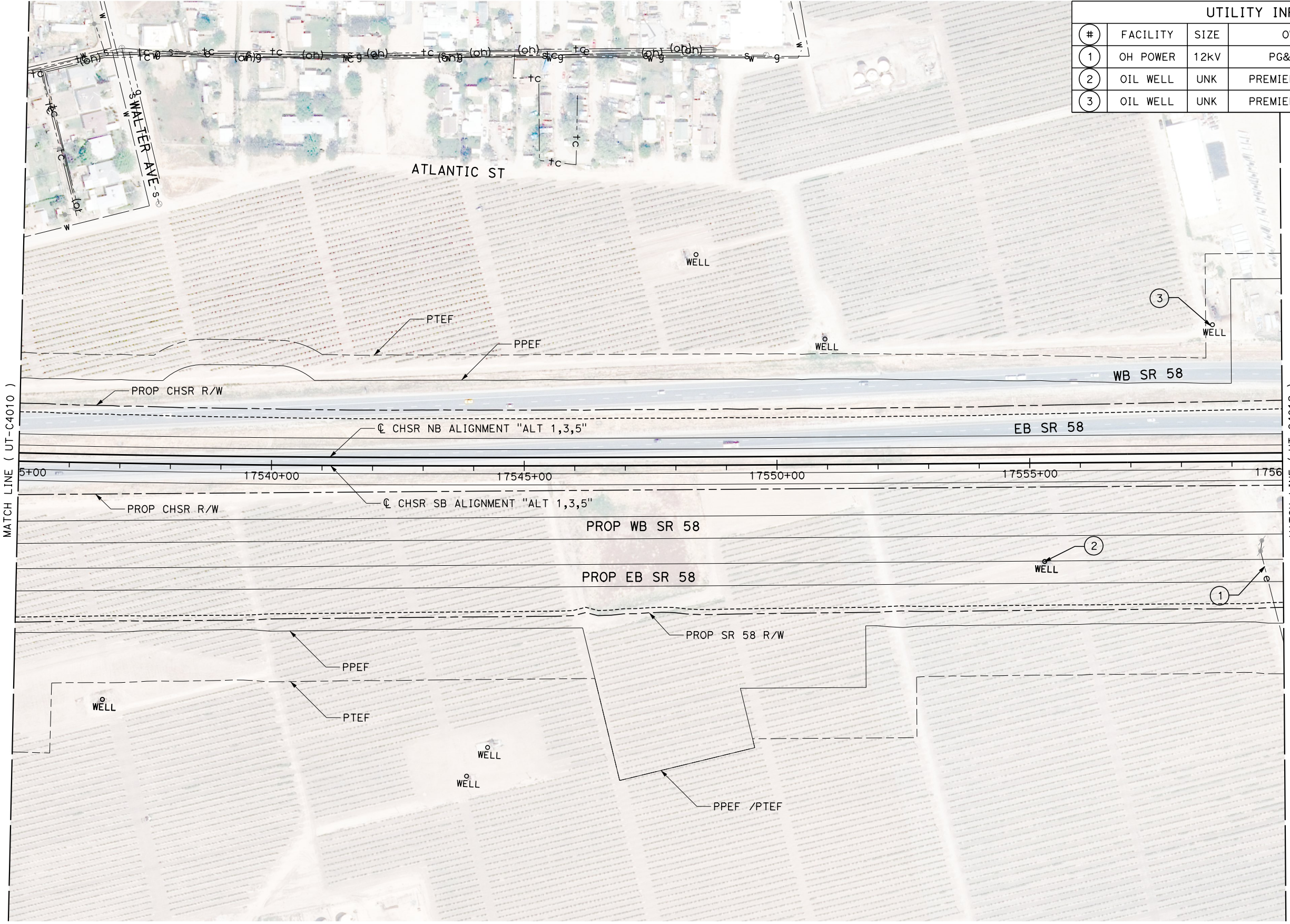
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17510+00 TO 17535+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4010
 SCALE
AS SHOWN
 SHEET NO.
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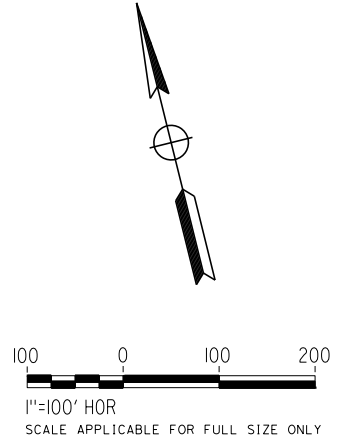
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12KV	PG&E DIST	RELOCATE
2	OIL WELL	UNK	PREMIER PUMPING	ABANDON
3	OIL WELL	UNK	PREMIER PUMPING	PROTECT IN PLACE



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J. LOPEZ
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IN CHARGE
G. CAMPBELL
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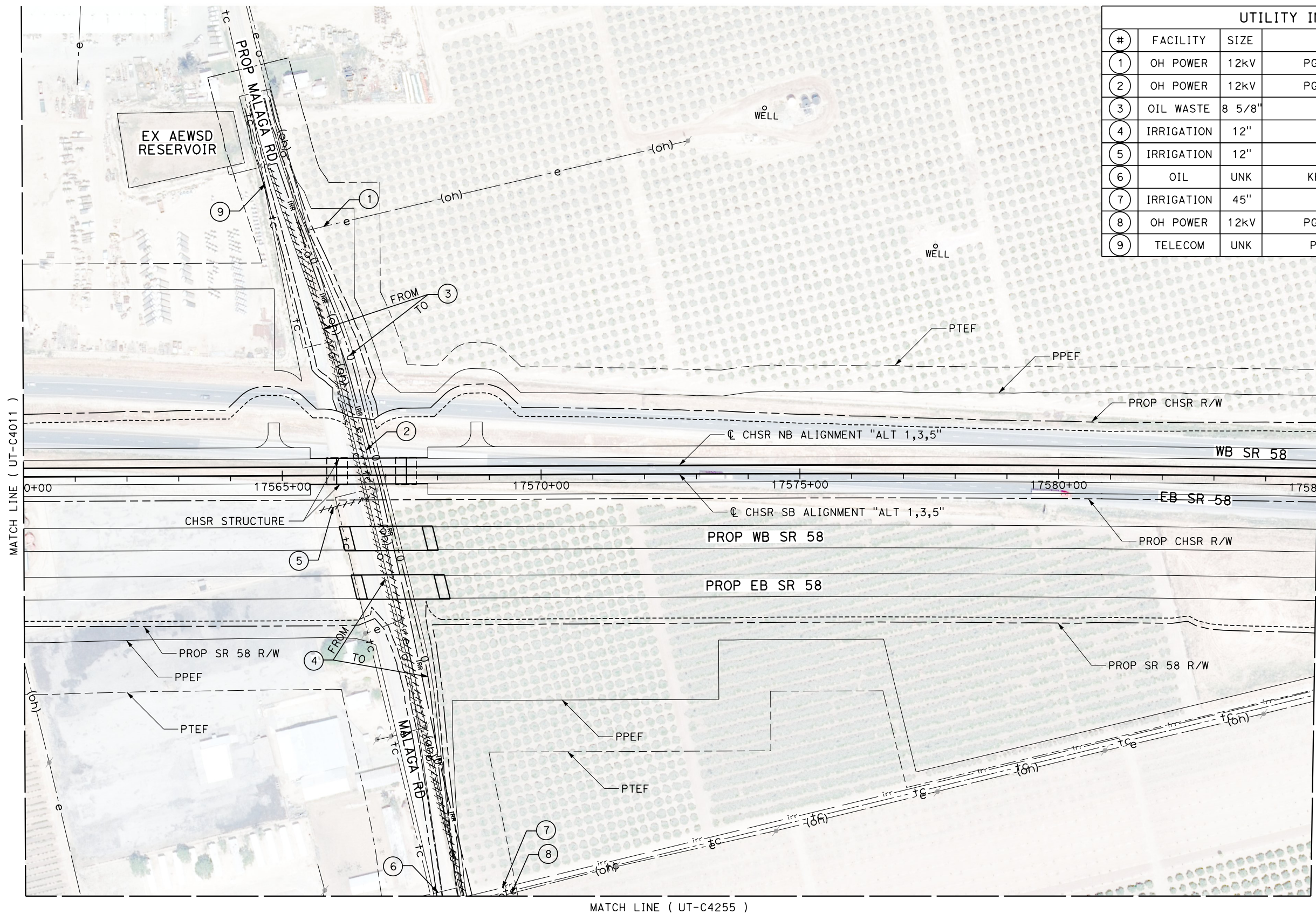
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17535+00 TO 17560+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C4011
SCALE
AS SHOWN
SHEET NO.
31

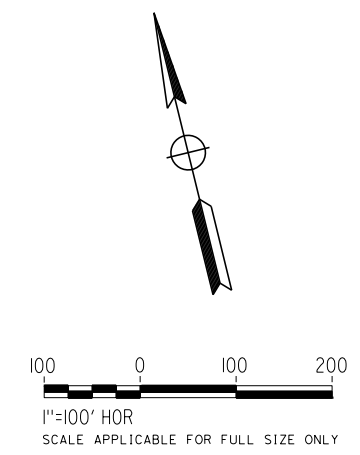
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E DIST	RELOCATE
2	OH POWER	12kV	PG&E DIST	RELOCATE
3	OIL WASTE	8 5/8"	VWMC	RELOCATE
4	IRRIGATION	12"	AEWSD	RELOCATE
5	IRRIGATION	12"	AEWSD	REMOVE
6	OIL	UNK	KERN OIL	PROTECT IN PLACE
7	IRRIGATION	45"	AEWSD	PROTECT IN PLACE
8	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
9	TELECOM	UNK	PACBELL	RELOCATE



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IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17560+00 TO 17585+00

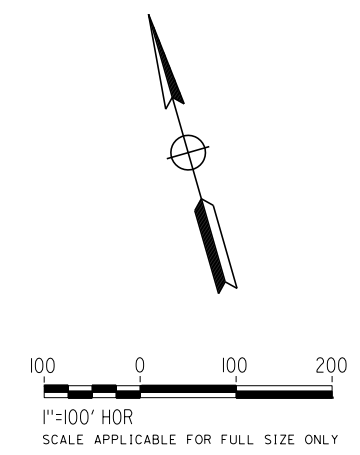
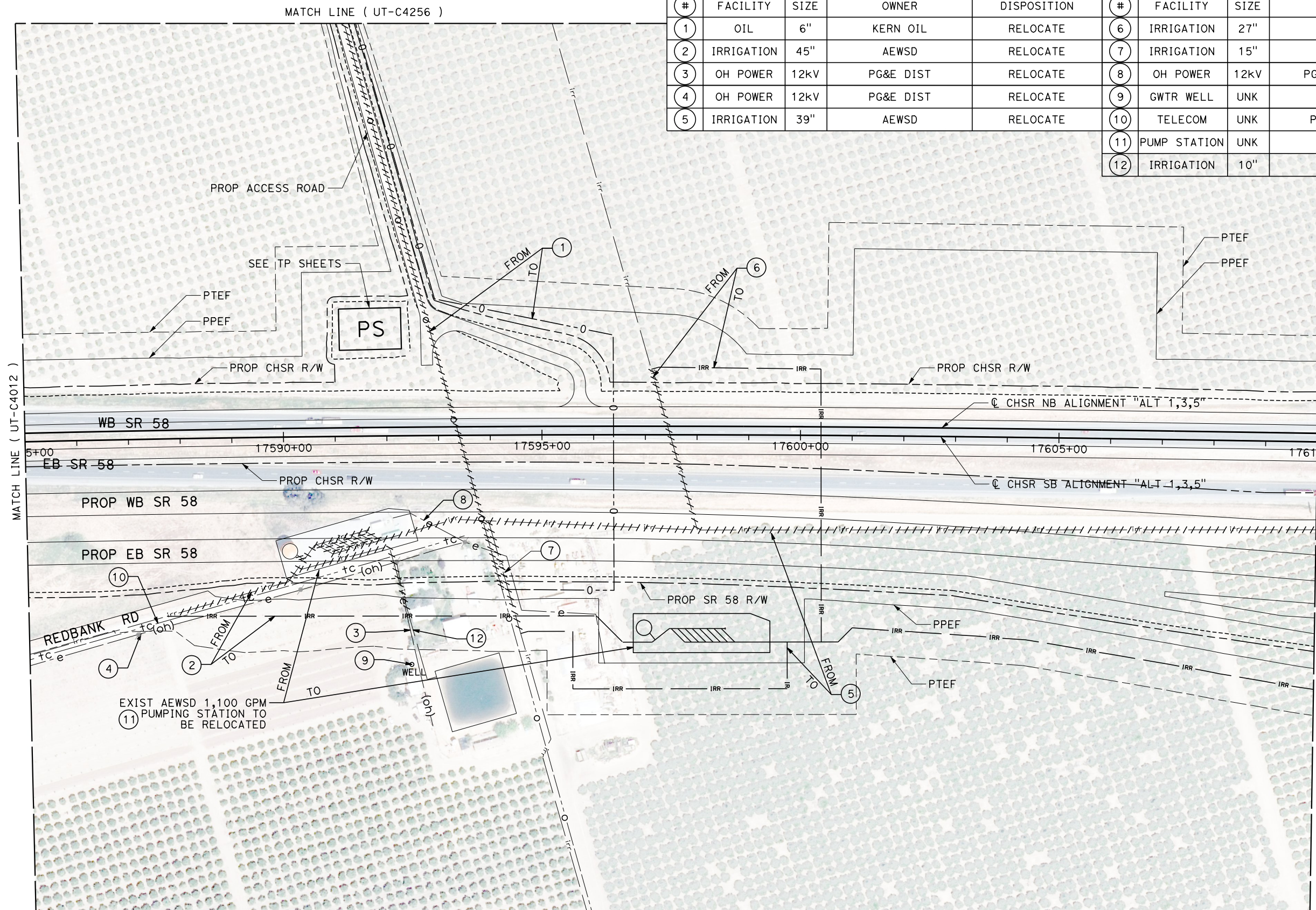
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UT-C4012
SCALE
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SHEET NO.
32

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1/23/2021 3:00:53 AM

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UTILITY INFORMATION					UTILITY INFORMATION CONT.				
#	FACILITY	SIZE	OWNER	DISPOSITION	#	FACILITY	SIZE	OWNER	DISPOSITION
1	OIL	6"	KERN OIL	RELOCATE	6	IRRIGATION	27"	AEWSD	RELOCATE
2	IRRIGATION	45"	AEWSD	RELOCATE	7	IRRIGATION	15"	AEWSD	REMOVE
3	OH POWER	12kV	PG&E DIST	RELOCATE	8	OH POWER	12kV	PG&E DIST	RELOCATE
4	OH POWER	12kV	PG&E DIST	RELOCATE	9	GWTR WELL	UNK	AEWSD	PROTECT IN PLACE
5	IRRIGATION	39"	AEWSD	RELOCATE	10	TELECOM	UNK	PACBELL	RELOCATE
					11	PUMP STATION	UNK	AEWSD	RELOCATE
					12	IRRIGATION	10"	AEWSD	PROTECT IN PLACE



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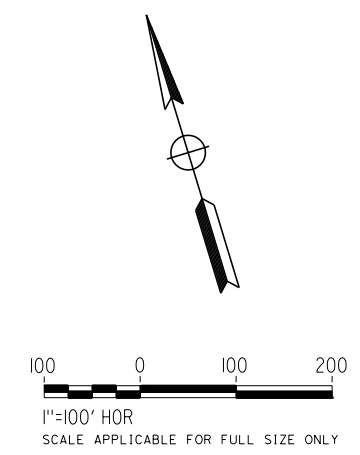
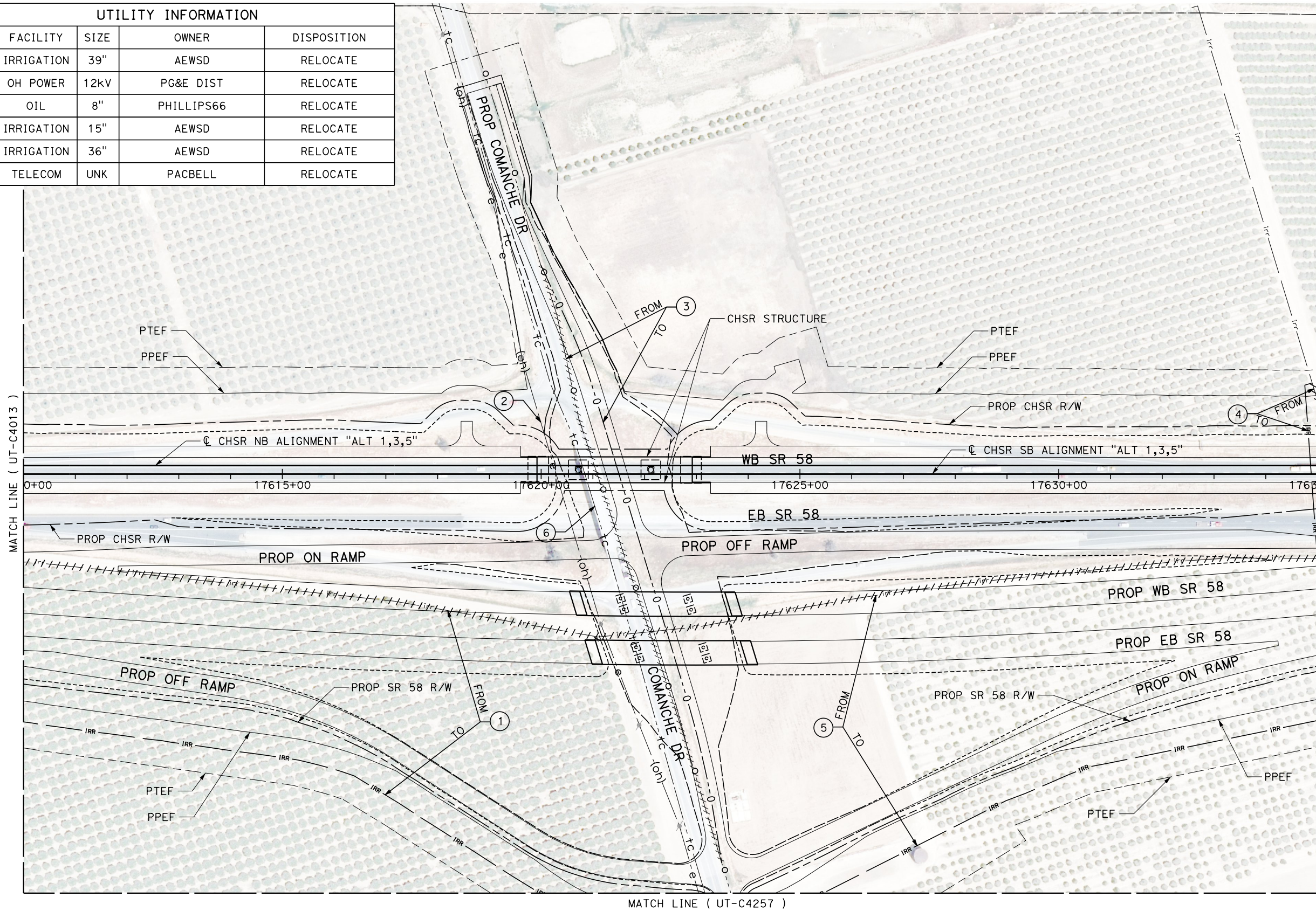
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17585+00 TO 17610+00

CONTRACT NO.
HSR13-44
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UT-C4013
SCALE
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33

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	39"	AEWSD	RELOCATE
2	OH POWER	12kV	PG&E DIST	RELOCATE
3	OIL	8"	PHILLIPS66	RELOCATE
4	IRRIGATION	15"	AEWSD	RELOCATE
5	IRRIGATION	36"	AEWSD	RELOCATE
6	TELECOM	UNK	PACBELL	RELOCATE



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G. CAMPBELL
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G. CAMPBELL
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01/29/2021

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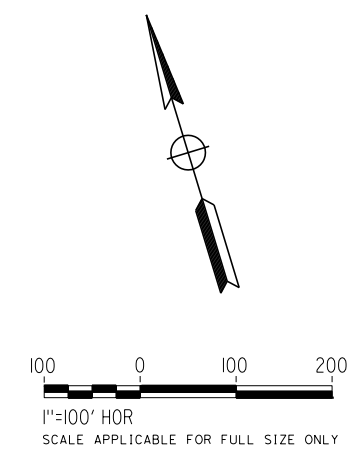
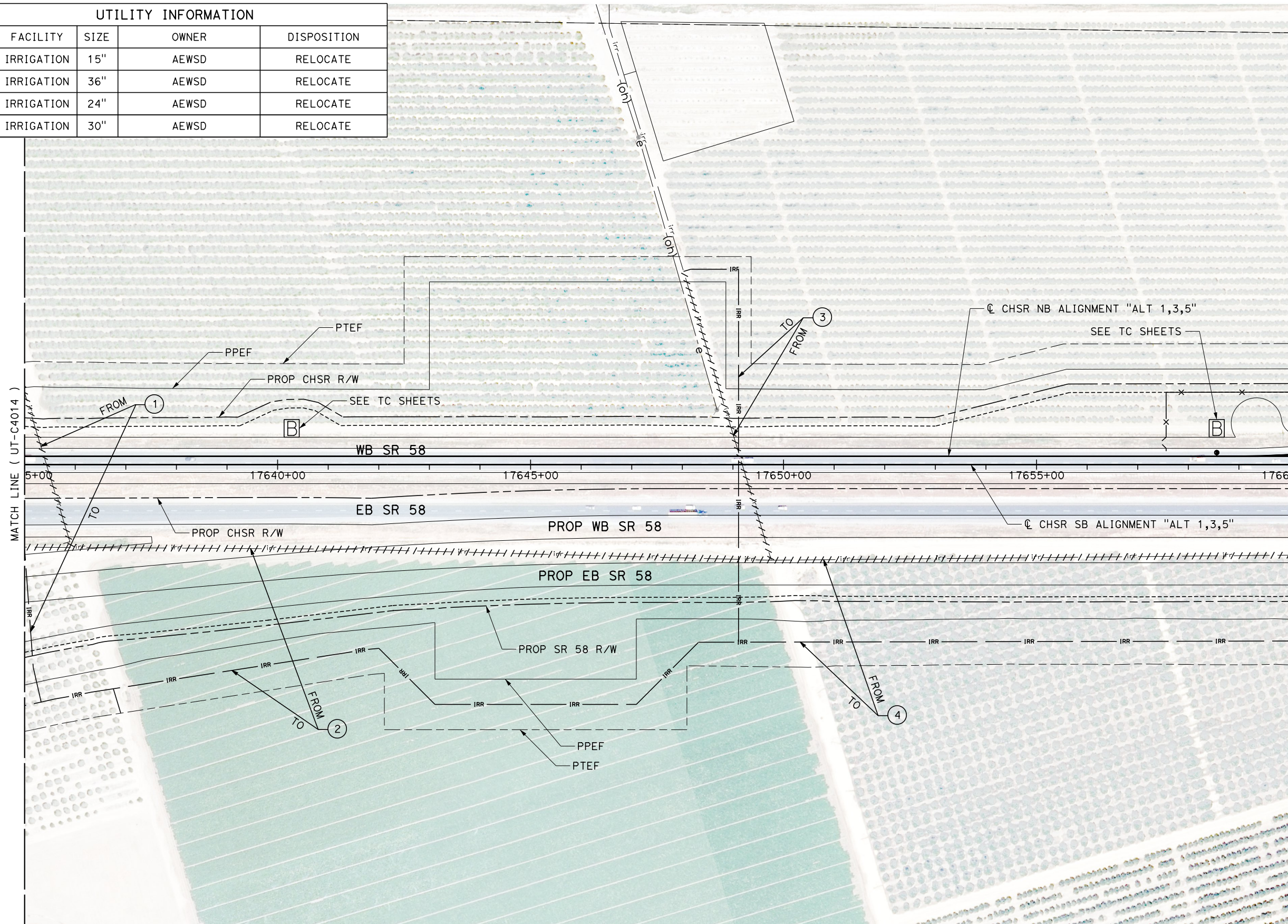
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17610+00 TO 17635+00

CONTRACT NO.
HSR13-44
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UT-C4014
 SCALE
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34

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	15"	AEWSD	RELOCATE
2	IRRIGATION	36"	AEWSD	RELOCATE
3	IRRIGATION	24"	AEWSD	RELOCATE </td
4	IRRIGATION	30"	AEWSD	RELOCATE



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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
ALTERNATIVE 1,3,5
STA 17635+00 TO 17660+00

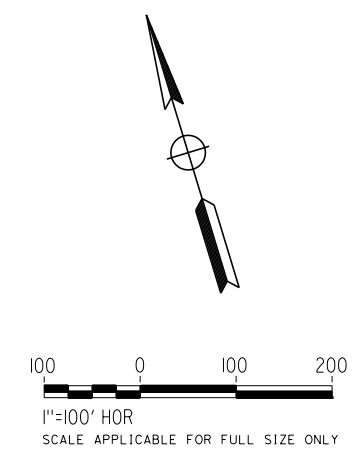
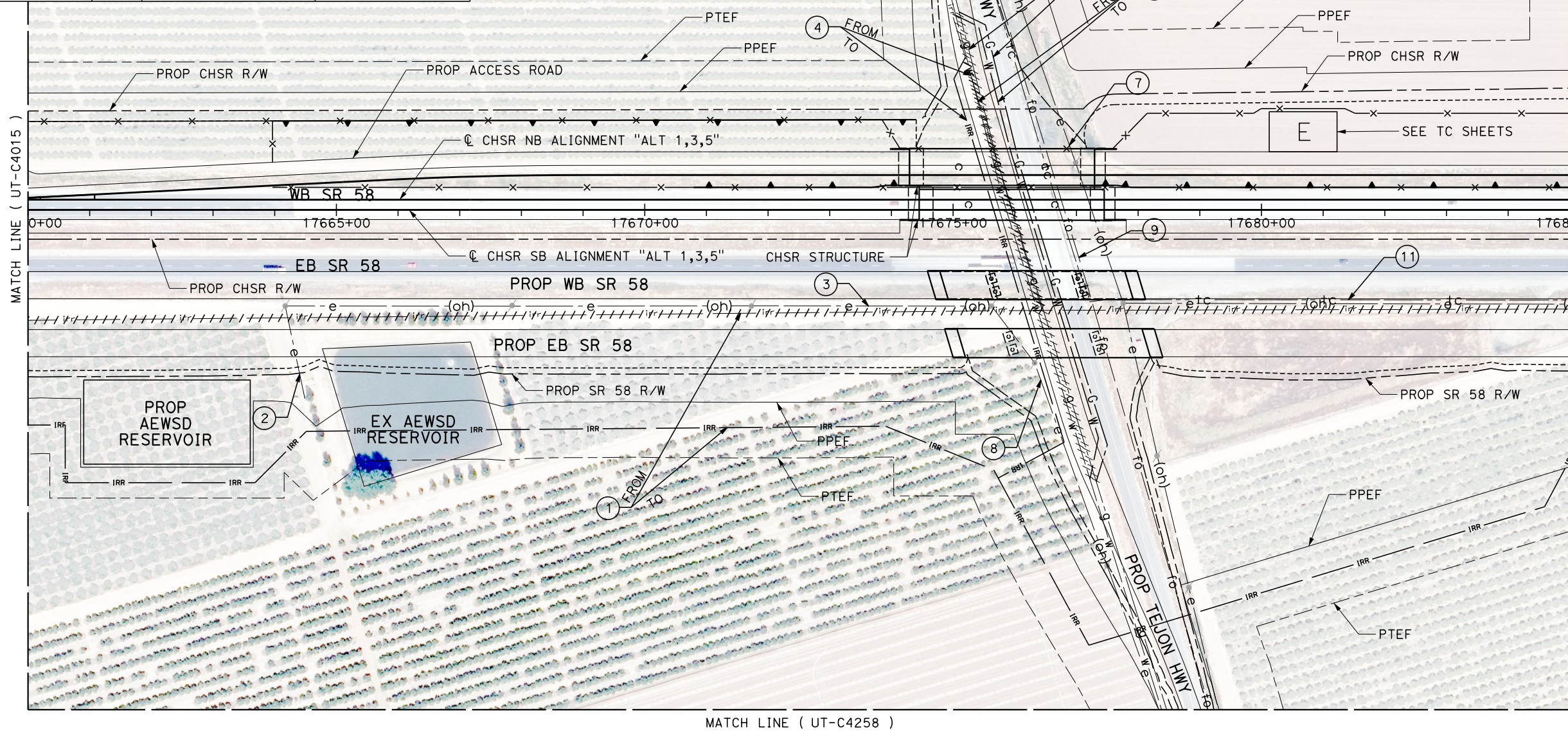
CONTRACT NO.
HSR13-44

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SHEET NO.
35

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	30"	AEWSD	RELOCATE
2	OH POWER	12kV	PG&E DIST	RELOCATE
3	OH POWER	12kV	PG&E DIST	RELOCATE
4	IRRIGATION	15"	AEWSD	RELOCATE
5	NATURAL GAS	3"	NAFTEX	RELOCATE
6	WATER	3"	NAFTEX	RELOCATE
7	OH POWER	12kV	PG&E DIST	RELOCATE
8	OH POWER	12kV	PG&E DIST	RELOCATE
9	FIBER OPTIC	UNK	SPRINT, LEVEL 3	RELOCATE
10	TELECOM	UNK	PACBELL	RELOCATE
11	TELECOM	UNK	PACBELL	RELOCATE



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J. LOPEZ
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G. CAMPBELL
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G. CAMPBELL
 DATE
01/29/2021

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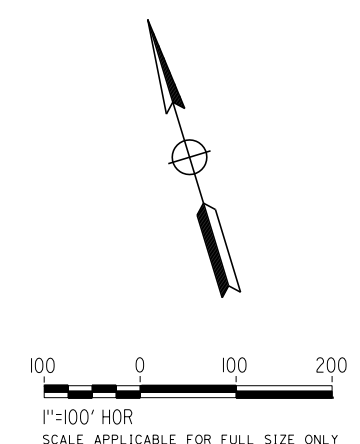
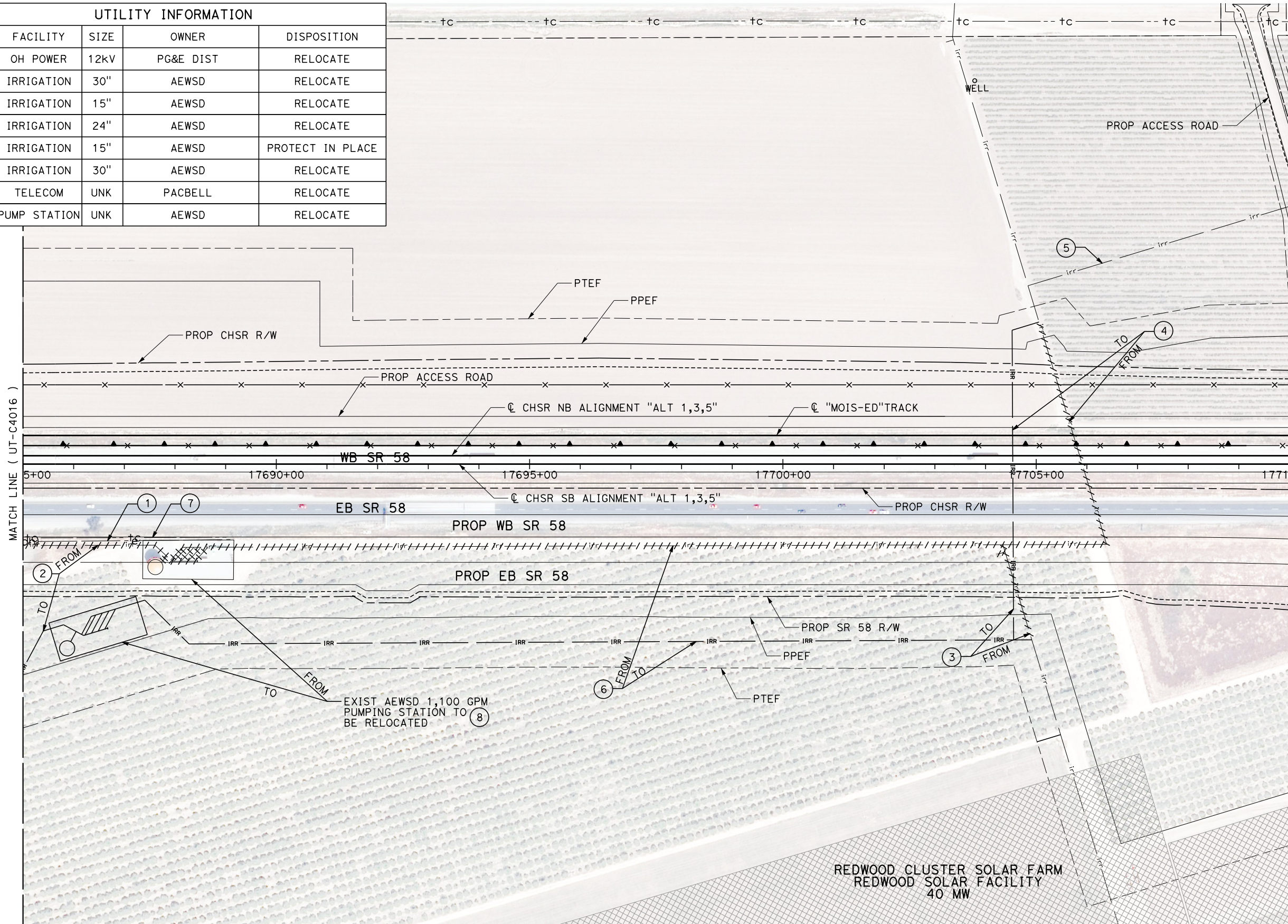
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17660+00 TO 17685+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4016
 SCALE
AS SHOWN
 SHEET NO.
36

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12KV	PG&E DIST	RELOCATE
2	IRRIGATION	30"	AEWSD	RELOCATE
3	IRRIGATION	15"	AEWSD	RELOCATE
4	IRRIGATION	24"	AEWSD	RELOCATE
5	IRRIGATION	15"	AEWSD	PROTECT IN PLACE
6	IRRIGATION	30"	AEWSD	RELOCATE
7	TELECOM	UNK	PACBELL	RELOCATE
8	PUMP STATION	UNK	AEWSD	RELOCATE



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J. LOPEZ
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G. CAMPBELL
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G. CAMPBELL
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01/29/2021

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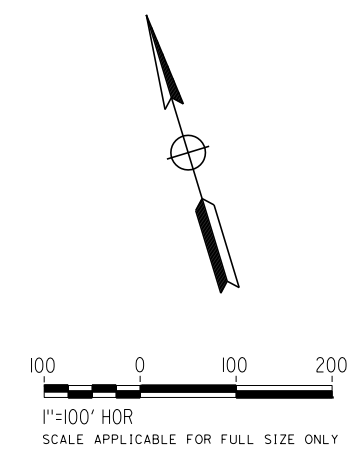
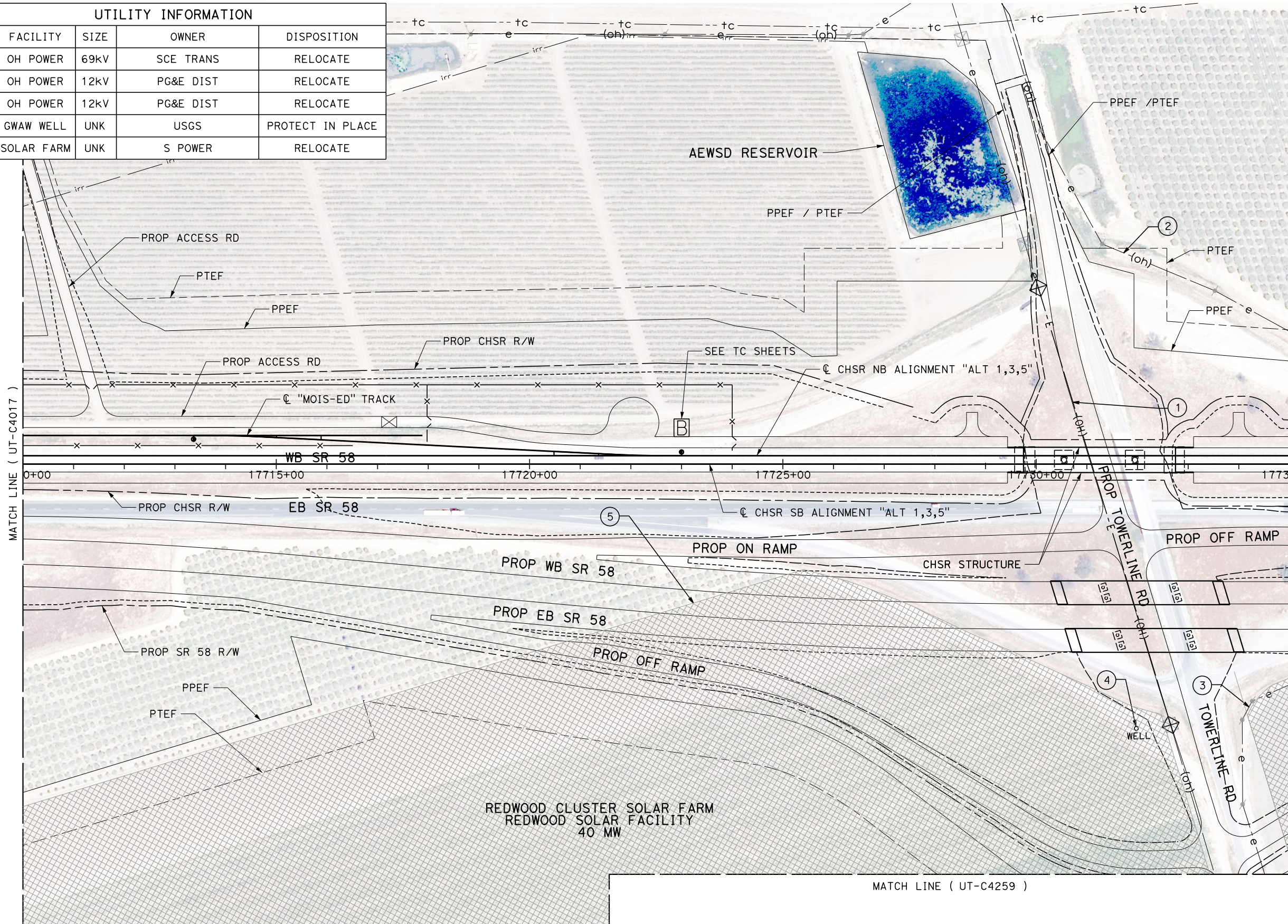
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17685+00 TO 17710+00

CONTRACT NO.
HSR13-44
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UT-C4017
 SCALE
AS SHOWN
 SHEET NO.
37

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	69kV	SCE TRANS	RELOCATE
2	OH POWER	12kV	PG&E DIST	RELOCATE
3	OH POWER	12kV	PG&E DIST	RELOCATE
4	GWAW WELL	UNK	USGS	PROTECT IN PLACE
5	SOLAR FARM	UNK	S POWER	RELOCATE



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J. LOPEZ
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G. CAMPBELL
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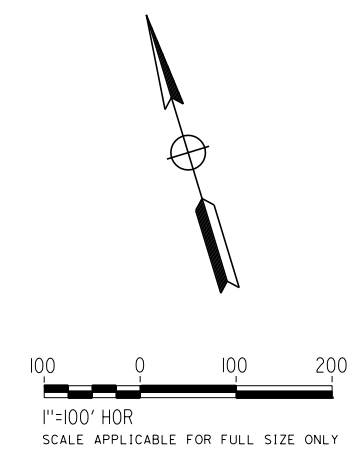
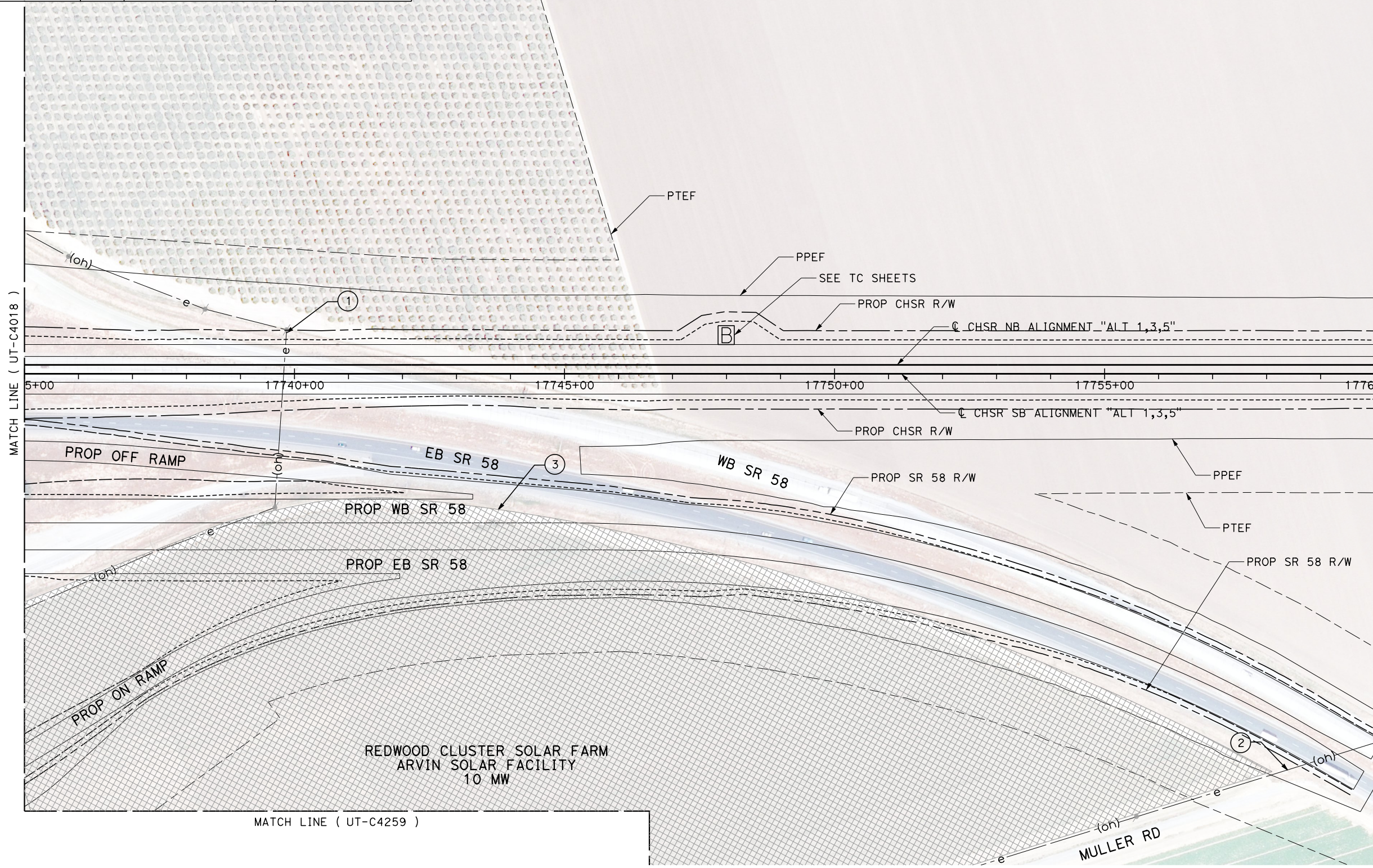
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17710+00 TO 17735+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4018
 SCALE
AS SHOWN
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38

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12KV	PG&E DIST	RELOCATE
2	OH POWER	12KV	PG&E DIST	RELOCATE
3	SOLAR FARM	UNK	S POWER	RELOCATE



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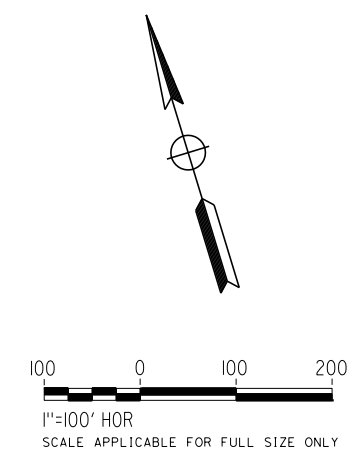
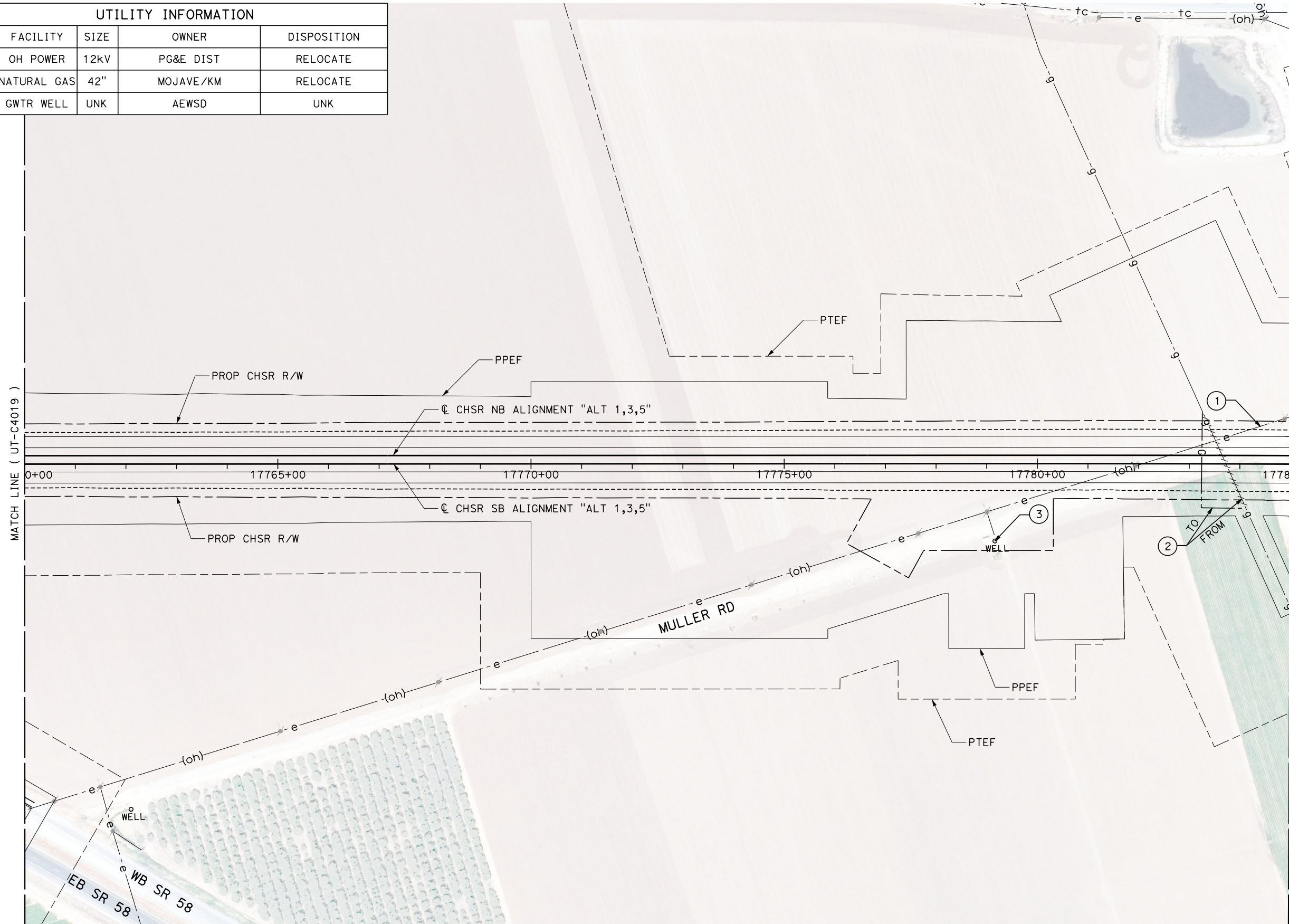
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 COMPOSITE UTILITY PLANS
 ALTERNATIVE 1,3,5
 STA 17735+00 TO 17760+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C4019
 SCALE
AS SHOWN
 SHEET NO.
39

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12KV	PG&E DIST	RELOCATE
2	NATURAL GAS	42"	MOJAVE/KM	RELOCATE
3	GWTR WELL	UNK	AEWSD	UNK



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G. CAMPBELL
DATE
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
COMPOSITE UTILITY PLANS
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SCALE
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40