CITY OF AUSTIN, TEXAS

C.I.P. NO. 5335.016

Contract Drawings For

AUSTIN WATER UTILITY
ULLRICH WATER TREATMENT PLANT
LOW SERVICE PUMP STATION
ELECTRICAL FEED RENEWAL

ULLRICH WTP
LOW SERVICE PUMP STATION
ELECTRICAL FEED RENEWAL

STATE OF TEXAS
WILLIAM D. WEHNER
133436
LICENSED
PROFESSIONAL ENGINEER
21 JANUARY 2021

AUSTIN CITY COUNCIL MEMBERS:

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DISTRICT 1	NATASHA HARPER-MADISON
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DISTRICT 5	ANN KITCHEN
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DISTRICT 7	LESLIE POOL
DISTRICT 8	PAIGE ELLIS
DISTRICT 9	KATHIE TOVO
DISTRICT 10	ALISON ALTER

CITY MANAGER SPENCER CRONK

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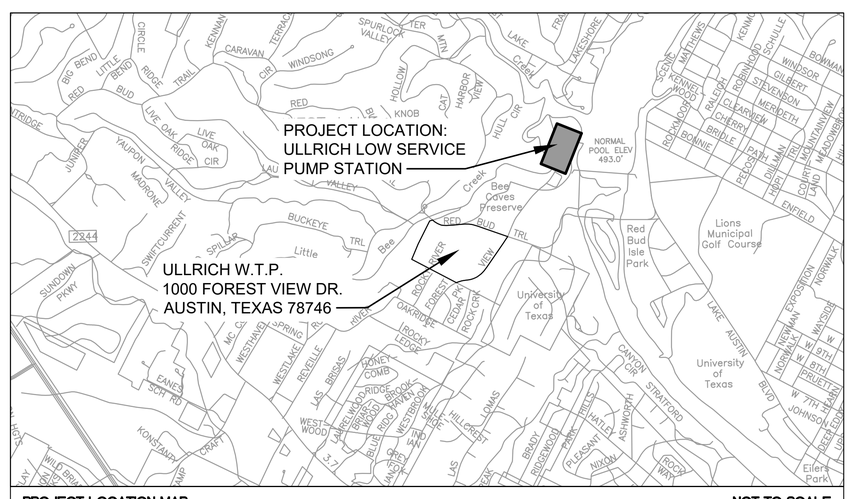
AUSTIN WATER ADMINISTRATIVE BUILDING
625 EAST 10TH STREET
AUSTIN, TEXAS 78701-2612

ADMINISTRATIVE OFFICES: 1-512-972-0101
24-HOUR EMERGENCY SERVICE: 1-512-972-1000

HTTP://WWW.AUSTINTEXAS.GOV/DEPARTMENT/WATER



PROJECT LOCATION MAP NOT TO SCALE

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CONFORMED CONTRACT DRAWINGS

APPROVALS:

SUBMITTED FOR APPROVAL BY:

ENGINEER OF RECORD DATE

APPROVED BY GENERAL PERMIT HOLDER:
AUSTIN WATER UTILITY

FOR GENERAL PERMIT HOLDER DATE

ANNUAL GENERAL PERMIT NUMBER

APPROVED BY:

AUSTIN WATER UTILITY DATE

GENERAL PERMIT PROGRAM COORDINATOR DATE
PLANNING AND DEVELOPMENT REVIEW DEPARTMENT

DEVELOPMENT PERMIT NUMBER

SUBMITTAL DATE:

REVIEWED BY:
(FOR AUSTIN WATER UTILITY)

BRYAN BARNETT (PROJECT SPONSOR) DATE

ROBYN HAASCH (PROJECT MANAGER) DATE

ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	W. D. WEHNER
DESIGNED BY	W. D. WEHNER
DRAWN BY	M. E. WAUER
CHECKED BY	G. L. PIERSON
DATE	OCTOBER 2020
PROJECT NUMBER	10123906

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SEQ.	SHEET	DESCRIPTION
GENERAL		
1.	G00-001	GENERAL - COVER / TITLE SHEET
2.	G00-002	GENERAL - INDEX OF DRAWINGS
3.	G00-003	GENERAL - PROJECT NOTES - 1
4.	G00-004	GENERAL - PROJECT NOTES - 2
5.	G10-101	GENERAL - WETLANDS MITIGATION PLAN - 1
6.	G10-102	GENERAL - WETLANDS MITIGATION PLAN - 2
CIVIL		
7.	C10-101	OVERALL SITE PLAN
8.	C10-101A	SITE PLAN (1 OF 5)
9.	C10-101B	SITE PLAN (2 OF 5)
10.	C10-101C	SITE PLAN (3 OF 5)
11.	C10-102	SITE PLAN (4 OF 5)
12.	C10-103	SITE PLAN (5 OF 5)
13.	C10-104	SITE DETAILS (1 OF 4)
14.	C10-105	SITE DETAILS (2 OF 4)
15.	C10-106	SITE DETAILS (3 OF 4)
16.	C10-107	SITE DETAILS (4 OF 4)
17.	C10-108	STORM DETAILS (1 OF 3)
18.	C10-109	STORM DETAILS (2 OF 3)
19.	C10-110	STORM DETAILS (3 OF 3)
20.	C10-111	TREE PROTECTION NOTES & DETAILS (1 OF 2)
21.	C10-112	TREE PROTECTION NOTES & DETAILS (2 OF 2)
22.	C10-112A	E&S PLAN (1 OF 5)
23.	C10-112B	E&S PLAN (2 OF 5)
24.	C10-113	E&S PLAN (3 OF 5)
25.	C10-114	E&S PLAN (4 OF 5)
26.	C10-115	E&S PLAN (5 OF 5)
27.	C10-115A	TREE LIST & MITIGATION TABLE
28.	C10-115B	TREE PROTECTION PLAN (1 OF 5)
29.	C10-115C	TREE PROTECTION PLAN (2 OF 5)
30.	C10-115D	TREE PROTECTION PLAN (3 OF 5)
31.	C10-115E	TREE PROTECTION PLAN (4 OF 5)
32.	C10-115F	TREE PROTECTION PLAN (5 OF 5)
33.	C10-116	WATER QUALITY (SHEET 1 OF 4)
34.	C10-117	WATER QUALITY (SHEET 2 OF 4)
35.	C10-118	WATER QUALITY (SHEET 3 OF 4)
36.	C10-118A	WATER QUALITY (SHEET 4 OF 4)
37.	C10-118B	CROSS CULVERT PLAN & PROFILE
38.	C10-118C	SWALE PLAN & PROFILE (1 OF 3)
39.	C10-118D	WEST SWALE PLAN & PROFILE (2 OF 3)
40.	C10-118E	WEST SWALE PLAN & PROFILE (3 OF 3)
41.	C10-118F	STORM PLAN & PROFILE (1 OF 1)
42.	C10-301	16IN WATERLINE RELOCATION - PLAN & PROFILE
43.	C10-501	LSPS SWITCHGEAR ENCLOSURE & EQUIPMENT
44.	C30-101	LSPS SWITCHGEAR GRADING PLAN (1 OF 4)
45.	C30-102	LSPS SWITCHGEAR GRADING PLAN (2 OF 4)
46.	C30-103	LSPS SWITCHGEAR GRADING PLAN (3 OF 4)
47.	C30-104	LSPS SWITCHGEAR GRADING PLAN (4 OF 4)
48.	C30-301	ACCESS DRIVE AND DUCT BANK PLAN & PROFILE (1 OF 2)
49.	C30-302	ACCESS DRIVE AND DUCT BANK PLAN & PROFILE (2 OF 2)
50.	C30-303	BOX CULVERT PLAN & ACCESS ROAD SECTION VIEWS
51.	C40-301	PAC BUILDING DUCT BANK PLAN & PROFILE (1 OF 2)
52.	C40-302	PAC BUILDING DUCT BANK PLAN & PROFILE (2 OF 2)
STRUCTURAL		
53.	S00-001	STRUCTURAL NOTES
54.	S00-002	STRUCTURAL NOTES
55.	S00-003	CODE REQUIRED SPECIAL INSPECTIONS AND TESTING
56.	S00-004	3D ISOMETRIC VIEW
57.	S00-005	STRUCTURAL SITE PLAN
58.	S10-101	STRUCTURAL RETAINING WALL OVERALL PLAN
59.	S10-102	STRUCTURAL RETAINING WALL ENLARGED PLAN
60.	S10-103	STRUCTURAL RETAINING WALL ENLARGED PLAN
	S10-104	- - [SHEET REMOVED FROM PLAN-SET] - -
61.	S10-105	STRUCTURAL WATER QUALITY POND FOUNDATION AND TOP OF WALL PLANS
62.	S10-201	STRUCTURAL RETAINING WALL PLAN AND PROFILE
63.	S10-202	STRUCTURAL RETAINING WALL PLAN AND PROFILE
64.	S10-203	STRUCTURAL RETAINING WALL PLAN AND PROFILE
65.	S10-204	STRUCTURAL RETAINING WALL PLAN AND PROFILE
66.	S10-205	STRUCTURAL RETAINING WALL PLAN AND PROFILE
67.	S10-206	STRUCTURAL RETAINING WALL PLAN AND PROFILE
68.	S10-207	STRUCTURAL RETAINING WALL PLAN AND PROFILE
69.	S10-208	STRUCTURAL RETAINING WALL PLAN AND PROFILE
70.	S10-209	STRUCTURAL RETAINING WALL PLAN AND PROFILE
71.	S10-301	STRUCTURAL RETAINING WALL SECTIONS
72.	S10-302	STRUCTURAL RETAINING WALL SECTIONS
	S10-303	- - [SHEET REMOVED FROM PLAN-SET] - -
	S10-304	- - [SHEET REMOVED FROM PLAN-SET] - -
73.	S10-305	STRUCTURAL WATER QUALITY POND WALL SECTIONS AND DETAILS
74.	S30-101	PIER AND TRANSFORMER PAD PLAN
75.	S30-102	SWITCHGEAR ENCLOSURE LOADING PLAN
76.	S30-103	STRUCTURAL SLAB PLAN
77.	S30-104	STRUCTURAL SLAB REINFORCEMENT PLAN
78.	S30-105	ROOF FRAMING PLAN
79.	S30-106	NET UPLIFT JOIST LOADING PLAN
80.	S30-107	SWITCHGEAR ENCLOSURE ELEVATION
81.	S30-108	OUTDOOR ELECTRICAL AREA FOUNDATION PLAN
82.	S90-201	TYPICAL CONCRETE DETAILS
83.	S90-202	TYPICAL CONCRETE DETAILS
84.	S90-203	TYPICAL CONCRETE BEAM DETAILS
85.	S90-210	CONCRETE FRAMING DETAILS
86.	S90-211	CONCRETE FRAMING DETAILS
87.	S90-212	FOUNDATION DETAILS
88.	S90-301	TYPICAL STEEL DETAILS
89.	S90-310	STEEL FRAMING DETAILS
90.	S90-401	TYPICAL CMU DETAILS
91.	S90-402	TYPICAL CMU DETAILS
92.	S90-511	STRUCTURAL RETAINING WALL STANDARD DETAILS
93.	S90-512	STRUCTURAL RETAINING WALL STANDARD DETAILS
94.	S90-513	STRUCTURAL RETAINING WALL STANDARD DETAILS
95.	S90-514	STRUCTURAL RETAINING WALL TXDOT STANDARD DETAILS
96.	S90-515	STRUCTURAL RETAINING WALL TXDOT STANDARD DETAILS
ARCHITECTURAL		
97.	A00-001	GENERAL NOTES, ABBREVIATIONS & SCHEDULES
98.	A10-101	FLOOR PLAN
99.	A10-102	EQUIPMENT PLAN LEVEL
100.	A10-103	PERSPECTIVE VIEW
101.	A10-201	ELEVATIONS (1 OF 2)
102.	A10-202	ELEVATIONS (2 OF 2)
103.	A10-301	LSPS SWITCHGEAR ENCLOSURE SECTIONS (1 OF 2)
104.	A10-302	LSPS SWITCHGEAR ENCLOSURE SECTIONS (2 OF 2)
105.	A10-401	WALL SECTIONS
106.	A90-501	DETAILS (1 OF 2)
107.	A90-502	DETAILS (2 OF 2)
108.	A90-503	GUARDRAIL DETAIL
MECHANICAL		
109.	M00-001	MECHANICAL ABBREVIATIONS, SYMBOLS, LEGENDS & GENERAL NOTES
110.	M30-201	MECHANICAL FLOOR PLAN
111.	M30-401	MECHANICAL SCHEDULES AND CONTROLS
112.	M90-501	MECHANICAL DETAILS
113.	M90-502	MECHANICAL DETAILS
ELECTRICAL		
114.	E00-001	ELECTRICAL SYMBOLS LEGEND (1 OF 3)
115.	E00-002	ELECTRICAL SYMBOLS LEGEND (2 OF 3)
116.	E00-003	ELECTRICAL SYMBOLS LEGEND (3 OF 3)
117.	E00-004	ELECTRICAL GENERAL NOTES
118.	E00-005	ELECTRICAL TYPICAL PLC I/O WIRING SCHEMATICS
119.	E00-006	CONDUIT AND WIRE SCHEDULE DEMOLITION
120.	E00-007	CONDUIT AND WIRE SCHEDULE RENOVATION (1 OF 3)
121.	E00-008	CONDUIT AND WIRE SCHEDULE RENOVATION (2 OF 3)
122.	E00-009	CONDUIT AND WIRE SCHEDULE RENOVATION (3 OF 3)
123.	E10-101	OVERALL SITE PLAN - EXISTING
124.	E10-102	SITE - ENLARGED PLAN - EXISTING (1 OF 2)
125.	E10-103	SITE - ENLARGED PLAN - EXISTING (2 OF 2)
126.	E10-104	OVERALL SITE PLAN - DEMOLITION
127.	E10-105	SITE - ENLARGED PLAN - DEMOLITION (1 OF 2)
128.	E10-106	SITE - ENLARGED PLAN - DEMOLITION (2 OF 2)
129.	E10-107	OVERALL SITE PLAN - RENOVATION
130.	E10-107A	SITE - UTILITY INTERFACE PLAN
131.	E10-108	SITE - DUCT BANK PLAN - RENOVATION (1 OF 7)
132.	E10-109	SITE - DUCT BANK PLAN - RENOVATION (2 OF 7)
133.	E10-110	SITE - DUCT BANK PLAN - RENOVATION (3 OF 7)
134.	E10-111	SITE - DUCT BANK PLAN - RENOVATION (4 OF 7)
135.	E10-112	SITE - DUCT BANK PLAN - RENOVATION (5 OF 7)
136.	E10-113	SITE - DUCT BANK PLAN - RENOVATION (6 OF 7)
137.	E10-114	SITE - DUCT BANK PLAN - RENOVATION (7 OF 7)
138.	E10-115	SITE - ENLARGED PLAN - RENOVATION (1 OF 2)
139.	E10-116	SITE - ENLARGED PLAN - RENOVATION (2 OF 2)
140.	E10-201	ELECTRICAL MANHOLE "MH-1A" - ELEVATION - PROPOSED
141.	E10-202	ELECTRICAL MANHOLE "MH-1B" - ELEVATION - PROPOSED
142.	E10-203	ELECTRICAL MANHOLE "MH-2A" - ELEVATION - PROPOSED
143.	E10-204	ELECTRICAL MANHOLE "MH-2B" - ELEVATION - PROPOSED
144.	E10-205	ELECTRICAL MANHOLE "MH-3A" - ELEVATION - PROPOSED
145.	E10-206	ELECTRICAL MANHOLE "MH-3B" - ELEVATION - PROPOSED
146.	E10-207	ELECTRICAL MANHOLE "MH-4A" - ELEVATION - PROPOSED
147.	E10-208	ELECTRICAL MANHOLE "MH-4B" - ELEVATION - PROPOSED
148.	E10-209	ELECTRICAL MANHOLE "MH-5A" - ELEVATION - PROPOSED
149.	E10-210	ELECTRICAL MANHOLE "MH-6A" - ELEVATION - PROPOSED
150.	E10-301	DUCT BANK SECTIONS - PROPOSED (1 OF 9)
151.	E10-302	DUCT BANK SECTIONS - PROPOSED (2 OF 9)
152.	E10-303	DUCT BANK SECTIONS - PROPOSED (3 OF 9)
153.	E10-304	DUCT BANK SECTIONS - PROPOSED (4 OF 9)
154.	E10-305	DUCT BANK SECTIONS - PROPOSED (5 OF 9)
155.	E10-306	DUCT BANK SECTIONS - PROPOSED (6 OF 9)
156.	E10-307	DUCT BANK SECTIONS - PROPOSED (7 OF 9)
157.	E10-308	DUCT BANK SECTIONS - PROPOSED (8 OF 9)
158.	E10-309	DUCT BANK SECTIONS - PROPOSED (9 OF 9)
159.	E10-601	OVERALL ONE-LINE DIAGRAM - EXISTING
160.	E10-602	OVERALL ONE-LINE DIAGRAM - DEMOLITION
161.	E10-603	OVERALL ONE-LINE DIAGRAM - RENOVATION
162.	E20-101	LOW SERVICE PUMP STATION - LOWER LEVEL EQUIPMENT LOCATION PLAN - EXISTING
163.	E20-102	LOW SERVICE PUMP STATION - PUMP LEVEL EQUIPMENT LOCATION PLAN - EXISTING
164.	E20-103	LOW SERVICE PUMP STATION - MEZZANINE LEVEL EQUIPMENT LOCATION PLAN - EXISTING
165.	E20-104	LOW SERVICE PUMP STATION - LOWER LEVEL POWER AND I&C PLAN - EXISTING
166.	E20-105	LOW SERVICE PUMP STATION - PUMP LEVEL POWER AND I&C PLAN - EXISTING
167.	E20-106	LOW SERVICE PUMP STATION - MEZZANINE LEVEL POWER PLAN - EXISTING
168.	E20-107	RAW WATER METERING VAULT - POWER AND I&C PLAN - EXISTING
169.	E20-108	LOW SERVICE PUMP STATION - LOWER LEVEL POWER AND I&C PLAN - DEMOLITION
170.	E20-109	LOW SERVICE PUMP STATION - PUMP LEVEL POWER AND I&C PLAN - DEMOLITION
171.	E20-110	LOW SERVICE PUMP STATION - MEZZANINE LEVEL POWER PLAN - DEMOLITION
172.	E20-111	RAW WATER METERING VAULT - POWER AND I&C PLAN - DEMOLITION
173.	E20-112	LOW SERVICE PUMP STATION - LOWER LEVEL EQUIPMENT LOCATION PLAN - RENOVATION
174.	E20-113	LOW SERVICE PUMP STATION - PUMP LEVEL EQUIPMENT LOCATION PLAN - RENOVATION
175.	E20-114	LOW SERVICE PUMP STATION - MEZZANINE LEVEL EQUIPMENT LOCATION PLAN - RENOVATION
176.	E20-115	LOW SERVICE PUMP STATION - LOWER LEVEL POWER AND I&C PLAN - RENOVATION
177.	E20-116	LOW SERVICE PUMP STATION - PUMP LEVEL POWER AND I&C PLAN - RENOVATION
178.	E20-117	LOW SERVICE PUMP STATION - POWER AND I&C ENLARGED PLAN - RENOVATION
179.	E20-118	LOW SERVICE PUMP STATION - MEZZANINE LEVEL POWER PLAN - RENOVATION
180.	E20-119	LOW SERVICE PUMP STATION - LIGHTING PLAN - RENOVATION
ELECTRICAL (CONTINUED)		
181.	E20-120	LOW SERVICE PUMP STATION - GROUNDING PLAN - RENOVATION
182.	E20-121	RAW WATER METERING VAULT - POWER AND I&C PLAN - RENOVATION
183.	E20-201	LOW SERVICE PUMP STATION - ELECTRICAL EQUIPMENT ELEVATIONS - EXISTING
184.	E20-202	LOW SERVICE PUMP STATION - ELECTRICAL EQUIPMENT ELEVATIONS - DEMOLITION
185.	E20-203	LOW SERVICE PUMP STATION - ELECTRICAL EQUIPMENT ELEVATIONS - RENOVATION
186.	E20-204	LOW SERVICE PUMP STATION - ELECTRICAL EQUIPMENT ELEVATIONS - PROPOSED (1 OF 2)
187.	E20-205	LOW SERVICE PUMP STATION - ELECTRICAL EQUIPMENT ELEVATIONS - PROPOSED (2 OF 2)
188.	E20-601	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - EXISTING (1 OF 5)
189.	E20-602	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - EXISTING (2 OF 5)
190.	E20-603	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - EXISTING (3 OF 5)
191.	E20-604	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - EXISTING (4 OF 5)
192.	E20-605	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - EXISTING (5 OF 5)
193.	E20-606	LOW SERVICE PUMP STATION - PANEL SCHEDULES - EXISTING
194.	E20-607	LOW SERVICE PUMP STATION - HUB "A" CABINET - POWER WIRING SCHEMATICS - EXISTING
195.	E20-608	LOW SERVICE PUMP STATION - CONTROL WIRING SCHEMATICS - EXISTING
196.	E20-609	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - DEMOLITION (1 OF 5)
197.	E20-610	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - DEMOLITION (2 OF 5)
198.	E20-611	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - DEMOLITION (3 OF 5)
199.	E20-612	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - DEMOLITION (4 OF 5)
200.	E20-613	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - DEMOLITION (5 OF 5)
201.	E20-614	LOW SERVICE PUMP STATION - PANEL SCHEDULES - DEMOLITION
202.	E20-615	LOW SERVICE PUMP STATION - CONTROL WIRING SCHEMATICS - DEMOLITION
203.	E20-616	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 1 OF 6)
204.	E20-617	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 2 OF 6)
205.	E20-618	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 3 OF 6)
206.	E20-619	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 4 OF 6)
207.	E20-620	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 5 OF 6)
208.	E20-621	LOW SERVICE PUMP STATION - DETAILED ONE-LINE DIAGRAM - RENOVATION (SHEET 6 OF 6)
209.	E20-622	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - THREE-LINE DIAGRAM - PROPOSED (1 OF 4)
210.	E20-623	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - THREE-LINE DIAGRAM - PROPOSED (2 OF 4)
211.	E20-624	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - THREE-LINE DIAGRAM - PROPOSED (3 OF 4)
212.	E20-625	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - THREE-LINE DIAGRAM - PROPOSED (4 OF 4)
213.	E20-626	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - THREE-LINE DIAGRAM - PROPOSED (1 OF 4)
214.	E20-627	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - THREE-LINE DIAGRAM - PROPOSED (2 OF 4)
215.	E20-628	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - THREE-LINE DIAGRAM - PROPOSED (3 OF 4)
216.	E20-629	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - THREE-LINE DIAGRAM - PROPOSED (4 OF 4)
217.	E20-630	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - MAIN BREAKER CONTROL LOGIC - PROPOSED
218.	E20-631	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - TIE BREAKER CONTROL LOGIC - PROPOSED
219.	E20-632	LOW SERVICE PUMP STATION - "LSPS-SWBD-01" - TYPICAL FEEDER BREAKER CONTROL LOGIC - PROPOSED
220.	E20-633	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - MAIN BREAKER CONTROL LOGIC - PROPOSED
221.	E20-634	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - TIE BREAKER CONTROL LOGIC - PROPOSED
222.	E20-635	LOW SERVICE PUMP STATION - "LSPS-SWBD-02" - TYPICAL FEEDER BREAKER CONTROL LOGIC - PROPOSED
223.	E20-636	LOW SERVICE PUMP STATION - HUB "A" CABINET - POWER WIRING SCHEMATICS - RENOVATION
224.	E20-637	LOW SERVICE PUMP STATION - CONTROL WIRING SCHEMATICS - RENOVATION
225.	E20-638	LOW SERVICE PUMP STATION - POWER WIRING SCHEMATICS - PROPOSED
226.	E20-639	LOW SERVICE PUMP STATION - FIELD INTERFACE WIRING SCHEMATICS - PROPOSED (1 OF 2)
227.	E20-640	LOW SERVICE PUMP STATION - FIELD INTERFACE WIRING SCHEMATICS - PROPOSED (2 OF 2)
228.	E20-641	LOW SERVICE PUMP STATION - PANEL SCHEDULES - RENOVATION (SHEET 1 OF 2)
229.	E20-642	LOW SERVICE PUMP STATION - PANEL SCHEDULES - RENOVATION (SHEET 2 OF 2)
230.	E30-101	SUBSTATION NO. 4 - EQUIPMENT LOCATION PLAN - PROPOSED
231.	E30-102	SUBSTATION NO. 4 - 15kV CONDUIT ROUTING PLAN - PROPOSED
232.	E30-103	SUBSTATION NO. 4 - INSTRUMENTATION AND CONTROLS PLAN - PROPOSED
233.	E30-104	SUBSTATION NO. 4 - POWER PLAN - PROPOSED
234.	E30-105	SUBSTATION NO. 4 - AUXILIARY AND RECEPTACLE PLAN - PROPOSED
235.	E30-106	SUBSTATION NO. 4 - LIGHTING PLAN - PROPOSED
236.	E30-107	SUBSTATION NO. 4 - GROUNDING PLAN - PROPOSED (1 OF 2)
237.	E30-108	SUBSTATION NO. 4 - GROUNDING PLAN - PROPOSED (2 OF 2)
238.	E30-109	SUBSTATION NO. 4 - UNDERCROFT POWER, I&C, AND AUXILIARY PLAN - PROPOSED
239.	E30-110	SUBSTATION NO. 4 - SECURITY PLAN - PROPOSED
240.	E30-201	SUBSTATION NO. 4 - ELECTRICAL EQUIPMENT FRONT ELEVATION (1 OF 2)
241.	E30-202	SUBSTATION NO. 4 - ELECTRICAL EQUIPMENT FRONT ELEVATION (2 OF 2)
242.	E30-601	SUBSTATION NO. 4 - OVERALL MEDIUM VOLTAGE SWITCHING DIAGRAM - PROPOSED
243.	E30-602	SUBSTATION NO. 4 - OVERALL ONE-LINE DIAGRAM - PROPOSED (1 OF 3)
244.	E30-603	SUBSTATION NO. 4 - OVERALL ONE-LINE DIAGRAM - PROPOSED (2 OF 3)
245.	E30-604	SUBSTATION NO. 4 - OVERALL ONE-LINE DIAGRAM - PROPOSED (3 OF 3)
246.	E30-605	SUBSTATION NO. 4 - "SUB4-SWGR-01" - DETAILED ONE-LINE DIAGRAM - PROPOSED (1 OF 4)
247.	E30-606	SUBSTATION NO. 4 - "SUB4-SWGR-01" - DETAILED ONE-LINE DIAGRAM - PROPOSED (2 OF 4)
248.	E30-607	SUBSTATION NO. 4 - "SUB4-SWGR-01" - DETAILED ONE-LINE DIAGRAM - PROPOSED (3 OF 4)
249.	E30-608	SUBSTATION NO. 4 - "SUB4-SWGR-01" - DETAILED ONE-LINE DIAGRAM - PROPOSED (4 OF 4)
250.	E30-609	SUBSTATION NO. 4 - "SUB4-SWGR-02" - DETAILED ONE-LINE DIAGRAM - PROPOSED (1 OF 4)
251.	E30-610	SUBSTATION NO. 4 - "SUB4-SWGR-02" - DETAILED ONE-LINE DIAGRAM - PROPOSED (2 OF 4)
252.	E30-611	SUBSTATION NO. 4 - "SUB4-SWGR-02" - DETAILED ONE-LINE DIAGRAM - PROPOSED (3 OF 4)
253.	E30-612	SUBSTATION NO. 4 - "SUB4-SWGR-02" - DETAILED ONE-LINE DIAGRAM - PROPOSED (4 OF 4)
254.	E30-613	SUBSTATION NO. 4 - "SUB4-SWGR-03" - DETAILED ONE-LINE DIAGRAM - PROPOSED (1 OF 2)
255.	E30-614	SUBSTATION NO. 4 - "SUB4-SWGR-03" - DETAILED ONE-LINE DIAGRAM - PROPOSED (2 OF 2)
256.	E30-615	SUBSTATION NO. 4 - "SUB4-SWGR-04" - DETAILED ONE-LINE DIAGRAM - PROPOSED (1 OF 2)
257.	E30-616	SUBSTATION NO. 4 - "SUB4-SWGR-04" - DETAILED ONE-LINE DIAGRAM - PROPOSED (2 OF 2)
258.	E30-617	SUBSTATION NO. 4 - LOW VOLTAGE EQUIPMENT - DETAILED ONE-LINE DIAGRAM - PROPOSED
259.	E30-618	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (1 OF 7)
260.	E30-619	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (2 OF 7)
261.	E30-620	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (3 OF 7)
262.	E30-621	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (4 OF 7)
263.	E30-622	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (5 OF 7)
264.	E30-623	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (6 OF 7)
265.	E30-624	SUBSTATION NO. 4 - "SUB4-SWGR-01" - THREE-LINE DIAGRAM - PROPOSED (7 OF 7)
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267.	E30-626	SUBSTATION NO. 4 - "SUB4-SWGR-02" - THREE-LINE DIAGRAM - PROPOSED (2 OF 7)
268.	E30-627	SUBSTATION NO. 4 - "SUB4-SWGR-02" - THREE-LINE DIAGRAM - PROPOSED (3 OF 7)
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270.	E30-629	SUBSTATION NO. 4 - "SUB4-SWGR-02" - THREE-LINE DIAGRAM - PROPOSED (5 OF 7)
271.	E30-630	SUBSTATION NO. 4 - "SUB4-SWGR-02" - THREE-LINE DIAGRAM - PROPOSED (6 OF 7)
272.	E30-631	SUBSTATION NO. 4 - "SUB4-SWGR-02" - THREE-LINE DIAGRAM - PROPOSED (7 OF 7)
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274.	E30-633	SUBSTATION NO. 4 - "SUB4-SWGR-03" - THREE-LINE DIAGRAM - PROPOSED (2 OF 4)
275.	E30-634	SUBSTATION NO. 4 - "SUB4-SWGR-03" - THREE-LINE DIAGRAM - PROPOSED (3 OF 4)
276.	E30-635	SUBSTATION NO. 4 - "SUB4-SWGR-03" - THREE-LINE DIAGRAM - PROPOSED (4 OF 4)
277.	E30-636	SUBSTATION NO. 4 - "SUB4-SWGR-04" - THREE-LINE DIAGRAM - PROPOSED (1 OF 4)
278.	E30-637	SUBSTATION NO. 4 - "SUB4-SWGR-04" - THREE-LINE DIAGRAM - PROPOSED (2 OF 4)
279.	E30-638	SUBSTATION NO. 4 - "SUB4-SWGR-04" - THREE-LINE DIAGRAM - PROPOSED (3 OF 4)
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283.	E30-642	SUBSTATION NO. 4 - "SUB4-SWGR-01" - TYPICAL FEEDER BREAKER CONTROL LOGIC - PROPOSED
284.	E30-643	SUBSTATION NO. 4 - "SUB4-SWGR-02" - MAIN BREAKER CONTROL LOGIC - PROPOSED
285.	E30-644	SUBSTATION NO. 4 - "SUB4-SWGR-02" - TIE BREAKER CONTROL LOGIC - PROPOSED
286.	E30-645	SUBSTATION NO. 4 - "SUB4-SWGR-02" - TYPICAL FEEDER BREAKER CONTROL LOGIC - PROPOSED
287.	E30-646	SUBSTATION NO. 4 - "SUB4-SWGR-03" - MAIN BREAKER CONTROL LOGIC - PROPOSED
288.	E30-647	SUBSTATION NO. 4 - "SUB4-SWGR-03" - TIE BREAKER CONTROL LOGIC - PROPOSED
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Texas P.E. Firm
Registration No. F-754

ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	W. D. WEHNER
DESIGNED BY	W. D. WEHNER
DRAWN BY	M. E. WAUER
CHECKED BY	G. L. PIERSON
DATE	OCTOBER 2020
PROJECT NUMBER	10123906

STATE OF TEXAS
WILLIAM D. WEHNER
133436
LICENSED
PROFESSIONAL ENGINEER
21 JANUARY 2021

CITY OF AUSTIN
FOUNDED 1839

ULLRICH WTP
LOW SERVICE PUMP STATION
ELECTRICAL FEED RENEWAL

GENERAL
INDEX OF DRAWINGS

0 1" 2"

FILENAME G00-002.dwg
SCALE NO SCALE

AUSTIN WATER UTILITY STANDARD CONSTRUCTION NOTES:

(NOVEMBER 23, 2017)

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION INSPECTION OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE AW PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A and WW 27-F.
10. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 AND SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS AND OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPERTENUNANCES.
11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
12. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
13. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
14. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
16. WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLATIONS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK.
19. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AMD CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.
20. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
21. SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS. THE SUBMITTAL WILL NEED TO BE INCLUDED IN THE PLAN SET AS THRU A CORRECTION PROCESS.
22. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
23. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.
24. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133
25. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.
26. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.
27. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
28. ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.
29. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.
30. PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IF PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

SITE PLAN RELEASE NOTES:

ORDINANCE REQUIREMENTS:

1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE A SITE PLAN AMENDMENT AND APPROVAL FROM THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
2. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING CODE APPROVAL; FIRE CODE APPROVAL; OR BUILDING, DEMOLITION, OR RELOCATION PERMITS APPROVAL. A CITY DEMOLITION OR RELOCATION PERMIT CAN ONLY BE ISSUED ONCE THE HISTORIC REVIEW PROCESS IS COMPLETED.
3. ALL SIGNS MUST COMPLY WITH THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF DAMAGE TO UTILITIES.
5. ALL EXISTING STRUCTURES SHOWN TO BE REMOVED WILL REQUIRE A DEMOLITION PERMIT FROM THE CITY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING DEMOLITION PERMITS.
6. ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.
7. A DEVELOPMENT PERMIT MUST BE ISSUED PRIOR TO AN APPLICATION FOR BUILDING PERMIT FOR NON-CONSOLIDATED OR PLANNING COMMISSION APPROVED SITE PLANS.
8. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A ROW EXCAVATION PERMIT IS REQUIRED.

ELECTRICAL TRANSMISSION EASEMENT NOTES:

1. NO TREES SHALL BE PLANTED WITHIN THE TRANSMISSION EASEMENT. NO TREES SHALL BE PLANTED WITHIN 25 FEET OF THE BASE OF THE TRANSMISSION STRUCTURE. VEHICULAR ACCESS FOR AUSTIN ENERGY TRUCKS AND EQUIPMENT IS TO BE MAINTAINED AT ALL TIMES WITHIN THE EASEMENT. AUSTIN ENERGY WILL NOT BE RESPONSIBLE FOR DAMAGE AND/OR REMOVAL OF VEGETATION WITHIN THE EASEMENT.
2. DO NOT DIG OR GRADE WITHIN 25 FEET OF THE TRANSMISSION STRUCTURES, INCLUDING DOWN GUY ANCHORS. GRADING NEAR ELECTRIC TRANSMISSION FACILITIES MUST BE COORDINATED WITH AUSTIN ENERGY PRIOR TO COMMENCEMENT OF GRADING. CALL ANDREW PEREZ AT 512-505-7153 TO SCHEDULE A MEETING.
3. A PRE-CONSTRUCTION SAFETY MEETING IS REQUIRED WITH AUSTIN ENERGY 48 HOURS BEFORE COMMENCEMENT OF CONSTRUCTION. CALL ANDREW PEREZ AT 512-505-7153 TO SCHEDULE A TAILGATE SAFETY MEETING. INCLUDE CHUCK HENDRY (PH 505-7151) IN THE MEETING, IF CRANES ARE BEING USED DURING CONSTRUCTION. OSHA REQUIRES A 20' CLEARANCE FROM ENERGIZED TRANSMISSION LINES DURING CONSTRUCTION.
4. BARRICADES MUST BE ERECTED 10 FEET FROM ELECTRIC TRANSMISSION STRUCTURES DURING CONSTRUCTION.
5. ANY RELOCATION OF ELECTRIC TRANSMISSION FACILITIES OR OUTAGES CAUSED BY THIS PROJECT WILL BE CHARGED TO THE PROPERTY OWNER AND CONTRACTOR.
6. WARNING SIGNS MUST BE PLACED UNDER THE OVERHEAD ELECTRIC TRANSMISSION FACILITIES AS NOTIFICATION OF THE ELECTRICAL HAZARD.
7. FOR SAFETY REASONS, AERIAL EQUIPMENT, DUMPSTERS, STAGING OR SPOILS AREAS ARE NOT PERMITTED WITHIN 20 FEET OF THE TRANSMISSION WIRE AND/OR STRUCTURES AND MUST BE LOCATED OUTSIDE THE EASEMENT.
8. 24-HOUR ACCESS TO ELECTRIC FACILITIES SHALL BE MAINTAINED.
9. ANY TEMPORARY OR PERMANENT FENCE PREVENTING ACCESS TO THE TRANSMISSION FACILITIES AND/OR EASEMENT SHALL BE COORDINATED WITH AUSTIN ENERGY STAFF. AE STAFF WILL INSTALL A LOCK ON THE GATE FOR ACCESS.
10. PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR DUST CONTROLS TO MINIMIZE CONTAMINATION OF WIRE AND INSULATORS CAUSED BY DUST FROM THIS PROJECT. ANY SUBSEQUENT CLEANING OR ELECTRICAL OUTAGES CAUSED BY DUST FROM THIS PROJECT WILL BE CHARGED TO THE PROPERTY OWNER AND CONTRACTOR.
11. PROPERTY OWNER IS RESPONSIBLE FOR ANY DAMAGES TO CURBING, LANDSCAPING, WALLS, PAVING PLACED AROUND THE ELECTRIC TRANSMISSION STRUCTURES/POLES/LINES CAUSED BY AUSTIN ENERGY DURING MAINTENANCE AND REPAIRS. ALL CURBING WITHIN THE ELECTRIC TRANSMISSION EASEMENT MUST BE LAYDOWN CURBING.
12. ROADS/DRIVEWAYS/PAVEMENT/PARKING, BRIDGES, SUBSURFACE INFRASTRUCTURE, WALLS, ETC. INSTALLED WITHIN THE EASEMENT MUST BE DESIGNED TO SUPPORT A 46,000 LB TANDEM AXLE (5 FOOT SPACING).
13. AUSTIN ENERGY WILL NOT BE RESPONSIBLE FOR DAMAGE DONE TO FACILITIES PLACED IN THE EASEMENT OR TO FACILITIES PLACED OUTSIDE THE EASEMENT (SUCH AS WALLS) THAT ARE DAMAGED A RESULT OF AE EQUIPMENT TRAVERSING THE EASEMENT.
14. FIRE HYDRANTS MUST BE LOCATED OUT OF THE TRANSMISSION EASEMENT AND A MINIMUM OF 20 FEET FROM ANY TRANSMISSION STRUCTURE.
15. SPRINKLERS ARE PROHIBITED WITHIN 25 FEET OF TRANSMISSION POLES AND STRUCTURES
16. DO NOT DIG OR GRADE WITHIN 25 FEET OF THE TRANSMISSION STRUCTURES, INCLUDING DOWN GUY ANCHORS)
17. OWNER MAY NOT PLACE, ERECT, CONSTRUCT OR MAINTAIN THE FOLLOWING WITHIN THE ELECTRIC TRANSMISSION EASEMENT:
    - A. ANY PERMANENT STRUCTURES, INCLUDING, BUT NOT LIMITED TO HABITABLE STRUCTURES SUCH AS HOMES, MOBILE HOMES, GARAGES, OR OFFICES;
    - B. ANY STRUCTURE OF ANY KIND IN SUCH PROXIMITY TO THE ELECTRIC TRANSMISSION OR DISTRIBUTION LINES, POLES, STRUCTURES, TOWERS, OR APPURTENANT FACILITIES AS WOULD CONSTITUTE A VIOLATION OF THE NATIONAL ELECTRIC SAFETY CODE IN EFFECT AT THE TIME THE STRUCTURE IS ERECTED; NOR
    - C. ANY STRUCTURES, INCLUDING BUT NOT LIMITED TO, FENCES, STORAGE SHEDS, DRAINAGE, FILTRATION OR DETENTION PONDS WHICH WOULD IMPAIR AUSTIN ENERGY'S ACCESS TO THE TRANSMISSION EASEMENTS OR ITS LINES, POLES, STRUCTURES, TOWERS OR APPURTENANT FACILITIES IN THE EASEMENTS.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY NOTES:

1. FUEL STORAGE IS PROHIBITED FOR THIS PROJECT.
2. NO ROUTINE VEHICLE MAINTENANCE OR SERVICING, SUCH AS OIL CHANGES, WILL BE ALLOWED ON THE PROJECT SITE.
3. PURPOSEFUL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND WILL NOT BE ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILLS WILL BE REMOVED AND DISPOSED OF PROPERLY.
4. VEHICLE TIRE RINSE-OFF PITS WILL BE LOCATED IN THE CONSTRUCTION STAGING AREA. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE OF THE PROJECT CONSTRUCTION LIMITS.
5. DURING CONSTRUCTION, PORTABLE TOILETS WILL BE AVAILABLE FOR CONSTRUCTION WORKERS. TOILETS WILL BE LOCATED AT THE CONSTRUCTION STAGING AREA AND WILL NOT BE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN.
6. IF ANY POTENTIAL RECHARGE FEATURES, SUCH AS CAVES, FAULTS, SINKHOLES, ETC., ARE DISCOVERED DURING CONSTRUCTION, ALL ACTIVITIES NEAR THE FEATURE WILL BE IMMEDIATELY SUSPENDED. THE CONTRACTOR SHALL INFORM THE TCEQ REGIONAL OFFICE OF ANY POTENTIAL RECHARGE FEATURES ENCOUNTERED BEFORE CONTINUING CONSTRUCTION. CONSTRUCTION IN THE AFFECTED AREA SHALL NOT CONTINUE UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE AQUIFER FROM ANY ADVERSE IMPACTS.
7. ALL EMPLOYEES INVOLVED IN CONSTRUCTION ACTIVITIES ON THE PROJECT SITE WILL BE INFORMED OF THE PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE REQUIREMENTS FOR CONTROLLING EMPLOYEE GENERATED WASTES AND PROPER DISPOSAL OF WASTE BUILDING MATERIALS.

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GENERAL CONSTRUCTION NOTES:

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. CONTRACTOR SHALL CALL TEXAS 811 (811 OR 800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
3. "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN TEXAS.)
4. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT.
5. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET R.O.W. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S R.O.W. MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION RELEASE BY THE CITY, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE IMPROVEMENTS FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
7. THE CONTRACTOR SHALL UNCOVER AND VERIFY THE DEPTHS AND HORIZONTAL LOCATION OF ALL EXISTING WATER AND WASTEWATER MAINS TO BE EXTENDED TO, ALTERED OR SUBJECT TO DAMAGE OR INCONVENIENCE BY THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. NO SEPARATE PAY.
8. THE LOCATION AND ELEVATION OF ALL EXISTING WASTEWATER AND STORM SEWER LINES TO BE CONNECTED TO SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF ANY UTILITY LINE. THE CONTRACTOR SHALL CONFIRM WITH THE ENGINEER THE GRADE OF THE FINAL SEGMENT OF CONNECTING PIPE AS NECESSARY TO MEET THE FLOWLINE ELEVATION OF THE EXISTING PIPE. NO SEPARATE PAY.
9. FINAL PAYMENT FOR THIS PROJECT IS CONTINGENT UPON ACCEPTANCE OF THE CONSTRUCTED IMPROVEMENTS.
10. THE CONTRACTOR SHALL PROVIDE ALL TRENCH SAFETY AS NECESSARY AND IN STRICT ACCORDANCE WITH CITY OF AUSTIN SPECIFICATION 509S AS A MINIMUM.
11. THE CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL PERMITS NECESSARY THAT CAN BE ISSUED TO THE CONTRACTOR ONLY WILL BE OBTAINED AT THE CONTRACTORS EXPENSE.
12. EXCAVATED TRENCHES SHALL BE EITHER TEMPORARILY BACKFILLED OR SECURELY FENCED OFF AT THE END OF EACH WORKING DAY. NO SEPARATE PAY.
13. THIS PROJECT IS SUBJECT TO THE AMERICAN IRON AND STEEL (AIS) REQUIREMENTS OF SECTION 608 OF THE FEDERAL WATER POLLUTION CONTROL ACT (33 U.S.C. 1388). ALL IRON AND STEEL PRODUCTS FOR CONSTRUCTION, ALTERATION, MAINTENANCE, OR REPAIRS INCORPORATED IN THESE PLANS MUST BE PRODUCED IN THE UNITED STATES.
14. AFTER ALL TRENCHING AND REPAIRS HAVE BEEN PERFORMED, AND FOLLOWING THE HEAVY/MAJOR CONSTRUCTION TRAFFIC ASSOCIATED WITH THE PROJECT IS COMPLETED, THE CONTRACTOR SHALL MILL AND OVERLAY THE ENTIRETY OF THE EXISTING ACCESS ROAD EXTENDING THE APPROXIMATELY 2,800 LF FROM THE CONCRETE APRON AT RED BUD TRAIL TO THE LOW SERVICE PUMP STATION (LSPS). THIS WILL INCLUDE THE EXISTING WIDENED PARKING AREAS ADJACENT TO THE LSPS AND PAC BUILDINGS. THE OVERLAY THICKNESS SHALL BE A MINIMUM 1.5 INCHES OF TYPE D ASPHALT. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN/RESTORE THE STRAIGHT CROSS SLOPE TO THE EAST GUTTER ALONG THE SECTION OF ACCESS DRIVE FROM RED BUD TRAIL RAIN GARDEN 2 CONSISTENT WITH THE WATER QUALITY DESIGN SHOWN ON THE PLANS. ALL OTHER AREAS OF OVERLAY SHALL BE PERFORMED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHETHER CROWNED OR CROSS SLOPED.

SPECIAL CONSTRUCTION NOTES:

1. BLASTING WITHIN THE PROJECT AREA WILL NOT BE ALLOWED WITHOUT A SEPARATE BLASTING PERMIT.
2. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN BARRICADES, WARNING SIGNS, FLASHERS, AND OTHER DEVICES OF THE TYPE AND SIZE AS INDICATED IN THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DUST-FREE LANE FOR TRAFFIC WITH FLAGMEN DURING CONSTRUCTION ACTIVITIES AND TWO LANES AT ALL OTHER TIMES. ACCESS TO CONTIGUOUS PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
4. ALL STRUCTURAL CONCRETE SHALL BE CLASS "A" (5 SACK, 25-8-36100 PSI @ 28 DAYS) AND ALL REINFORCING STEEL SHALL BE GRADE SIXTY, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING SITE AND SUBDIVISION INSPECTIONS, AT (512) 974-2278, 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL, IF APPLICABLE.
6. UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AT THE TIME THE PROJECT WAS SURVEYED. UTILITY RELOCATION WORK HAS BEEN OR WILL BE ACCOMPLISHED TO CLEAR THE WORK SPACE. THESE RELOCATIONS ARE NOT REFLECTED ON THESE DRAWINGS. FOR EXACT LOCATIONS CALL TEXAS 811 (811 OR 1-800-344- 8377), 48 HOURS PRIOR TO BEGINNING EXCAVATION.
7. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III, WITH CLASS B BEDDING, UNLESS OTHERWISE NOTED.
8. SIGNS IN THE WAY OF CONSTRUCTION SHALL BE REMOVED AND RELOCATED AS SOON AS POSSIBLE. ALL TRAFFIC CONTROL SIGNS, INCLUDING STOP AND STREET-NAME SIGNS, SHALL NOT BE REMOVED OR RELOCATED WITHOUT THE APPROVAL OF THE PROJECT INSPECTOR AND THE AUSTIN TRANSPORTATION DIVISION. THIS WORK SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
9. THE CONTRACTOR SHALL ERECT AND MAINTAIN A FILTER FABRIC FENCE AT LOCATIONS SHOWN ON THE PLANS AND ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER AUSTIN STANDARD SPECIFICATIONS ITEM NO. 620S FILTER FABRIC FENCE.
10. ANY AREAS TO RECEIVE TRANSITION PAVEMENT SHALL BE CONSTRUCTED WITH THE SAME TYPICAL SECTION AS THE ADJACENT NEW CONSTRUCTION.

SOIL DISPOSAL NOTES:

1. SPOILS MUST BE REMOVED FROM CHANNEL OF CREEK AND ITS 100-YR FLOODPLAIN AT THE END OF EACH WORK DAY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF SURPLUS MATERIAL, INCLUDING ALL REQUIRED PERMITS. NO SEPARATE PAY.

SEQUENCE OF CONSTRUCTION NOTES:

THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF CONSTRUCTION WHICH COMPLIES WITH THE FOLLOWING GENERAL SEQUENCE:

1. CALL THE CITY'S SITE AND SUBDIVISION INSPECTION DIVISION, 48 HOURS PRIOR TO BEGINNING ANY WORK. CALL TEXAS 811 (811 OR 1-800-344-8377) FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN CITY OF AUSTIN RIGHT-OF-WAY.
2. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES. INSTALL C.I.P. SIGNS.
3. DEWATERING SYSTEM AND WATER QUALITY COMPONENTS SHALL BE INSTALLED AND ESTABLISHED WITHIN THE LIMITS OF CONSTRUCTION. THE USE OF COFFERDAMS FOR PROTECTION OF WORK AREAS FROM INUNDATION MAY BE USED BY THE CONTRACTOR AT HIS DISCRETION. CONTRACTOR SHALL SUBMIT DEWATERING PLAN AND, IF APPLICABLE, COFFERDAMS, FOR REVIEW PRIOR TO CONSTRUCTION. DEWATERING PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES TO BE USED TO PREVENT OR MINIMIZE THE RISK OF TRANSPORTING ANY INVASIVE SPECIES, SUCH AS ZEBRA MUSSELS, TO NEW LOCATIONS ON EQUIPMENT, BOATS TRAILERS, AND VEHICLES.
4. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE WATERSHED PROTECTION DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.
5. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
6. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
7. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.
8. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
9. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE TO THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
10. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
11. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS.

ELECTRICAL NOTES:

1. DURING CONSTRUCTION THE CONTRACTOR/(POST-CONSTRUCTION THE OWNER) IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN RULES AND REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD POWER LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILL BE CHARGED TO THE CONTRACTOR DURING CONSTRUCTION/(TO THE OWNER POST-CONSTRUCTION). CONTACT JOE MCNAIR AT (512) 505-7526 FOR QUESTIONS REGARDING REQUIRED CLEARANCES.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING PROPER CLEARANCES DURING CONSTRUCTION.
3. ANY RELOCATION OF ELECTRIC FACILITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. IF RELOCATION OF ANY POLES, ETC, IS NECESSARY CONTACT AUSTIN ENERGY SIX (6) WEEKS PRIOR TO THE DATE NEEDED. CONTACT MICHAEL PITTMAN AT (512) 505-7678.

CONTROL OF INDIGENOUS AND INVASIVE SPECIES NOTES:

1. SEDIMENT CONTROL FENCING IS TO BE USED TO EXCLUDE WILDLIFE FROM THE CONSTRUCTION AREA AND ENSURE WILDLIFE SPECIES HAVE NOT BECOME TRAPPED WITHIN THE EXCLUSION AREA.
2. EROSION AND SEED/MULCH STABILIZATION MATERIALS THAT AVOID ENTANGLEMENT HAZARDS TO SNAKES AND OTHER WILDLIFE MUST BE USED.
3. TEXAS GARTER SNAKE MAY BE PRESENT ON SITE. IF OBSERVED, AVOID CONTACT AND ALLOW TO LEAVE THE SITE.
4. MINIMIZE CLEARING OF NATIVE VEGETATION AND AVOID IMPACTS TO NATIVE WILDLIFE AND PLANT SPECIES WHERE POSSIBLE.
5. ANY ENCOUNTERS OF SPECIES OF GREATEST CONSERVATION NEED, STATE AND/OR FEDERALLY LISTED SPECIES ARE TO BE REPORTED TO THE TEXAS NATURAL DIVERSITY DATABASE (TXNDD).
6. CLEARING OF VEGETATION WILL TAKE PLACE DURING THE MONTHS FROM SEPTEMBER TO FEBRUARY TO AVOID MIGRATORY BIRD NESTING SEASON.
7. CONTAMINATION EROSION AND SEDIMENT CONTROLS WILL MEET THE REQUIREMENTS OF THE EDWARDS AQUIFER RULES (30 TEXAS ADMINISTRATIVE CODE § 213), AND MUST BE MAINTAINED THROUGHOUT CONSTRUCTION ACCORDING TO THE EDWARDS AQUIFER PROTECTION PLAN (EAPP) AND WATER POLLUTION ABATEMENT PLAN (WPAP) APPROVED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.
8. AN EXISTING PERIMETER GAME FENCE, DESIGNED TO PREVENT HUMAN USE IMPACTS AND DEER OVER-BROWSING, WILL NOT BE DISTURBED DURING THE PROPOSED PROJECT.
9. CONTRACTOR MUST VERIFY THE ABSENCE OF RED IMPORTED FIRE ANTS AND TAWNY CRAZY ANTS ON CONSTRUCTION MATERIALS AND EQUIPMENT PRIOR TO ARRIVAL ONSITE.

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MITIGATION NOTES:

ULLRICH LSPS ELECTRICAL FEED -WETLANDS MITIGATION PLAN

MITIGATION IN WETLAND AREA

THERE WOULD BE APPROXIMATELY 0.01 ACRES OF IMPACTS IN THE WETLAND AREA. IMPACTS TO THE WETLAND WOULD BE MITIGATED BY THE FOLLOWING:

- POLE-PLANTING WITH BLACK WILLOW (*SALIX NIGRA*), COTTONWOOD (*POPULUS DELTOIDES*), OR BOX ELDER (*ACER NEGUNDO*) (CONTRACTOR TO SELECT ONE SPECIES, DEPENDING UPON AVAILABILITY) WITHIN AND IMMEDIATELY ADJACENT TO THE APPROXIMATELY 0.01 ACRE WETLAND IMPACT AREA TO IMPROVE THE STABILITY OF THE RIPRAP AND ALSO TO PROVIDE WILDLIFE HABITAT AND WETLAND MITIGATION (APPROXIMATELY 16-20 POLE-PLANTINGS).
- REMOVE EXOTIC/INVASIVE TREES AND VEGETATION (SAPLINGS/SHRUBS), INCLUDING, BUT NOT LIMITED TO PRIVET (*LIGUSTRUM* SSP.), CHINABERRY (*MELIA AZEDARACH*), CHINESE ELM (*ULMUS PARVIFOLIA*), NANDINA (*NANDINA DOMESTICA*), AND RED-TIPPED PHOTINA (*PHOTINIA* X *FRASERI*). INVASIVE SPECIES REMOVAL SHALL BE IN ACCORDANCE WITH THE CITY'S SPECIAL SPECIFICATION 614 INCLUDING:
  - WOODY SPECIES WITH A BASE SIZE OF LESS THAN 3 INCHES WOULD BE REMOVED USING A WEED WRENCH, OR SIMILAR.

○ IF HERBICIDES ARE REQUIRED, THEY WOULD BE NEED TO BE APPROVED FOR USE IN THE RIPARIAN ZONE AND WOULD BE USED ONLY BY AN APPLICATOR WITH DOCUMENTATION OF CURRENT PESTICIDE APPLICATOR LICENSE WHO WOULD PROVIDE REQUIRED SUBMITTALS PRIOR TO HERBICIDE APPLICATION.

○ AFTER CUTTING, WOODY SPECIES WOULD BE EITHER CHIPPED AND SPREAD ONSITE AS MULCH, SENT TO A COMPOSTING FACILITY, OR SENT TO THE LANDFILL IN ACCORDANCE WITH THE SPECIFICATION 614.

○ MAINTENANCE WOULD BE PROVIDED BY THE INSTALLING LANDSCAPE CONTRACTOR WHO WOULD PERFORM MAINTENANCE VISITS AND RETAIN DOCUMENTATION FOR A PERIOD OF 2 YEARS.

- PLANT TREE SEEDLINGS/SAPLINGS IN THE WETLAND FRINGE (WITHIN 2 FEET OF THE NORMAL WATER LEVEL) ALONG THE BANKS OF LAKE AUSTIN WITHIN THE INVASIVE/EXOTIC SPECIES REMOVAL AND NATIVE SPECIES PLANTING AREA. SEE TABLE 1 BELOW WHICH SHOWS THE QUANTITIES OF NATIVE TREES AND SHRUBS WOULD BE PLANTED TO SATISFY CITY OF AUSTIN CODE 25-8-261(C)(2).
  - WOODY SPECIES COULD INCLUDE LARGE TO MEDIUM TREES SUCH AS:
    - BALDCYPRESS (*TAXODIUM DISTICHUM*)
    - PECAN (*CARYA ILLINOINENSIS*)
    - AMERICAN SYCAMORE (*PLATANUS OCCIDENTALIS*)
    - BLACK WILLOW
    - OTHER NATIVE WETLAND SPECIES, AS AVAILABLE.
  - TREES WOULD BE PLANTED AT A RATE OF ONE PER 500 SQ. FT. IN THE WETLAND ZONE AND NO CLOSER THAN 6 FEET TO AN EXISTING NATIVE TREE AND WOULD CONTAIN A DIVERSITY OF SPECIES, AS DESCRIBED IN THE ENVIRONMENTAL CRITERIA MANUAL (ECM) SECTION 3.5.4.

- WHERE EXOTIC/INVASIVE SPECIES ARE REMOVED WITHIN THE WETLAND, REPLANT WITH A VARIETY OF NATIVE SPECIES INCLUDING TREES (DESCRIBED PREVIOUSLY), SHRUBS AND HERBACEOUS VEGETATION.
  - PLANT 5 UNDERSTORY TREES AND 5 WOODY SHRUBS TO BE PLANTED ONE PER 150 SQ. FT. AND NO CLOSER THAN 4 FEET TO ANOTHER EXISTING NATIVE TREE OR SHRUB. UNDERSTORY TREES OR SHRUBS MAY INCLUDE:
    - DECIDUOUS HOLLY (*ILEX DECIDUA*)
    - MEXICAN PLUM (*PRUNUS MEXICANA*)
    - BEAUTYBERRY (*CALLICARPA AMERICANA*)
    - CORALBERRY (*SYMPHORICARPOS ORBICULATUS*)
    - ROUGHLEAF DOGWOOD (*CORNUS DRUMMONDII*)
    - DWARF PALMETTO (*SABAL MINOR*)
    - ELDERBERRY (*SAMBUCUS CANADENSIS*)
    - BUTTONBUSH (*CEPHALANTHUS OCCIDENTALIS*)
    - OTHER WETLAND SPECIES NATIVE TO THE AUSTIN AREA, AS AVAILABLE. SEE APPENDIX F OF THE ENVIRONMENTAL CRITERIA MANUAL FOR UNDERSTORY TREES.
  - HERBACEOUS (I.E., GRASSES AND FORBS) TO BE PLANTED ON APPROXIMATE 3-FOOT CENTER SPACING, AND NOT CLOSER TO AN EXISTING NATIVE VEGETATION THAN 12 INCHES FOR 4-INCH CONTAINER PLANS OR 18 INCHES FOR 6-INCH CONTAINER SPECIMEN. SOME NATIVE FORBS AND GRASSES WHICH MAY BE USED INCLUDE:
    - EASTERN GAMAGRASS (*TRIPSACUM DACTYLOIDES*)
    - SWITCHGRASS (*PANICUM VIRGATUM*)
    - INLAND SEAOATS (*CHASMANTHIUM LATIFOLIA*)
    - HORSETAIL (*EQUISETUM HYMALE*)
    - RIVER FERN (*THELYPTERIS KUNTHII*)
    - SOUTHERN MAIDENHAIR FERN (*ADIANTUMCAPILLUS -VENERIS*)
    - CARDINAL FLOWER (*LOBELIA CARDINALIS*)
    - NATIVE IRIS (*IRIS FULVA*)
    - TURK'S CAP (*MALVAVISCUS ARBOREUS*)
    - GOLDEN GROUNDSEL (*PACKERA OBOVATA*)
    - OTHER NATIVE WETLAND-ADAPTED SPECIES, AS AVAILABLE. CITY SPECIFICATION 609S CAN BE USED AS A RESOURCE.

- TRASH WOULD BE REMOVED WITHIN THE WETLAND.
- THE BARGE/PONTOON SECTION, SHOWN ON THE PLANS, WOULD BE REMOVED FOR PROPER DISPOSAL.

TABLE 1. IMPACTS AND PLANTINGS IN WETLAND*

	POLE-PLANTINGS	NUMBER OF NATIVE SHADE TREES TO PLANT	NUMBER OF NATIVE UNDERSTORY TREES TO PLANT	NUMBER OF NATIVE SHRUBS TO PLANT	NUMBER OF NATIVE GRASSES/FORBS TO PLANT	IMPACT AREA (sq.ft)
DIRECT WETLAND IMPACTS	16-20	5	5	5	30	261
TOTALS	16-20	5	5	5	30	261

*QUANTITIES OF TREES AND SHRUBS TO BE PLANTED TO SATISFY CITY OF AUSTIN CODE 25-8-261(C)(2) TO PLANT AT LEAST ONE NATIVE SHADE TREE AND ONE UNDERSTORY TREE PER 500 SQUARE FEET OF DISTURBANCE AREA AND ONE NATIVE SHRUB PER 150 SQUARE FEET OF DISTURBED AREA.

WETLANDS MITIGATION LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING INVASIVE / EXOTIC SPECIES TREE TO BE REMOVED
- IMPERVIOUS COVER IMPACT AREA
- INVASIVE / EXOTIC SPECIES CONTROL AND NATIVE SPECIES PLANTING AREA
- EXISTING WETLAND BOUNDARY AREA
- 150-FOOT WETLAND CEF BUFFER AREA
- WQTZ — WATER QUALITY TRANSITION ZONE
- CWQZ — CRITICAL WATER QUALITY ZONE
- LOC — LIMITS OF CONSTRUCTION

MITIGATION IN 150' WETLAND CEF BUFFER AREA

THE PROJECT WOULD PERMANENTLY IMPACT APPROXIMATELY 0.31 ACRES WITHIN THE 150' WETLAND CEF UPLAND BUFFER AND THE IMPACTS WOULD BE WITHIN THE CRITICAL WATER QUALITY ZONE (CWQZ). WE PROPOSED TO MITIGATE THESE IMPACTS WITHIN THE UPLAND AREAS (OUTSIDE THE WETLAND) OF THE THREE INVASIVE/EXOTIC SPECIES CONTROL AND NATIVE SPECIES PLANTING AREAS, TOTALING APPROXIMATELY 0.74 ACRE. WITHIN THE EXOTIC SPECIES REMOVAL AND NATIVE SPECIES PLANTING AREAS WE PROPOSED THE FOLLOWING:

- REMOVAL OF TRASH.
- REMOVAL OF EXOTIC/INVASIVE VEGETATION, INCLUDING, BUT NOT LIMITED TO PRIVET (*LIGUSTRUM* SSP.), CHINABERRY (*MELIA AZEDARACH*), CHINESE ELM (*ULMUS PARVIFOLIA*), NANDINA (*NANDINA DOMESTICA*), AND RED-TIPPED PHOTINA (*PHOTINIA* X *FRASERI*). WHERE EXOTIC SPECIES ARE REMOVED THE AREA WOULD BE REPLANTED WITH A VARIETY OF NATIVE TREES, WOODY SHRUBS, AND HERBACEOUS SPECIES. INVASIVE SPECIES REMOVAL SHALL BE IN ACCORDANCE WITH THE CITY'S SPECIAL SPECIFICATION 614, AND AS DESCRIBED IN THE WETLANDS MITIGATION SECTION ABOVE.
- REPLANT NATIVE SPECIES IN QUANTITIES LISTED IN TABLE 2, BASED ON LAND DEVELOPMENT CODE 25-8-261(C)(2). AS DESCRIBED IN THE ENVIRONMENTAL CRITERIA MANUAL, THE PLANTINGS WOULD INCLUDE AT LEAST 5 SPECIES AND ONE SPECIES CANNOT ACCOUNT FOR 50% OR MORE OF THE PLANTINGS. AT LEAST 75% OF THE PLANTINGS SHALL BE FROM SIGNIFICANT SHADE PROVIDERS (AS LISTED IN APPENDIX F OF THE ENVIRONMENTAL CRITERIA MANUAL) THE REMAINDER OF THE TREE PLANTINGS CAN BE FROM OTHER SPECIES INCLUDED IN APPENDIX F. SHADE PROVIDING SPECIES SHOULD BE PLANTED AT A DENSITY OF ONE PER 500 SQ. FT. WITHIN THE DISTURBANCE AND CWQZ AREAS (AS SHOWN). SOME SIGNIFICANT SHADE PROVIDERS THAT SHOULD BE CONSIDERED FOR PLANTING INCLUDE:
  - ○ CEDAR ELM (*ULMUS CRASSIFOLIA*)
  - ○ HACKBERRY (*CELTIS LAEVIGATA*)
  - ○ LITTLE BLACK WALNUT (*JUGLANS MICROCARPA*)
  - ○ ESCARPMENT CHERRY (*PRUNUS SEROTINA* VAR. *EXIMIA*)
  - ○ ESCARPMENT LIVE OAK (*QUERCUS FUSIFORMIS*)
- REPLANT UNDERSTORY TREES AND WOODY SHRUBS WITHIN THE DISTURBANCE AND CWQZ AREAS (AS SHOWN). UNDERSTORY TREES SHALL BE PLANTED AT A DENSITY OF ONE PER 500 SQ. FT., AND SHRUBS AT A DENSITY OF ONE PER 150 PER SQUARE FEET. SOME SPECIES WHICH MAY BE USED INCLUDE:
  - ○ TEXAS PERSIMMON (*DIOSPYROS TEXANA*)
  - ○ DWARF PALMETTO (*SABAL MINOR*)
  - ○ TEXAS MOUNTAIN LAUREL (*SOPHORA SECUNDIFLORA*)
  - ○ DECIDUOUS HOLLY (*ILEX DECIDUA*)
  - ○ ROUGHLEAF DOGWOOD (*CORNUS DRUMMONDII*)
  - ○ EVE'S NECKLACE (*SOPHORA AFFINIS*)
  - ○ AGARITA (*BERBERIS TRIFOLIOLATA*) (IN MORE UPLAND AREAS)

○ OTHER NATIVE SPECIES INCLUDED WITHIN APPENDIX F OF THE ENVIRONMENTAL CRITERIA MANUAL AS UNDERSTORY TREES OR ON THE AUSTIN WATER APPROVED PLANT LIST AS SHRUBS, DEPENDING UPON AVAILABILITY.

- HERBACEOUS (I.E., GRASSES AND FORBS). DISTURBED AREAS (ADJACENT TO CONSTRUCTION OF DUCT BANK) WILL BE RESEEDED CONSISTENT CITY SPECIFICATION 609S. AREAS OUTSIDE THE IMMEDIATE CONSTRUCTION AREA HAVE THICK CANOPY COVER AND ARE HEAVILY VEGETATED. TO ENSURE SUCCESS WE PROPOSED CONTAINERIZED PLANTINGS IN UNDISTURBED AREAS. HERBACEOUS SPECIES WILL BE PLANTED ON 3-FOOT CENTER SPACING, AND NOT CLOSER TO AN EXISTING NATIVE VEGETATION THAN 12 INCHES FOR 4-INCH CONTAINER PLANS OR 18 INCHES FOR 6-INCH CONTAINER SPECIMEN. SOME SPECIES WHICH MAY BE USED INCLUDE:
  - ○ WOOD OATS (I.E., INLAND SEA OATS) (*CHASMANTHIUM LATIFOLIA*)
  - ○ EASTERN GAMAGRASS (*TRIPSACUM DACTYLOIDES*)
  - ○ HORSETAIL (*EQUISETUM ARVENSE*)
  - ○ TURK'S CAP (*MALVAVISCUS ARBOREUS* VAR. *DRUMMONDII*)
  - ○ SWITCHGRASS (*PANICUM VIRGATUM*) - (NOTE: WHERE SUFFICIENT SUNLIGHT IS PRESENT)
  - ○ OTHER NATIVE SPECIES OF GRASSES OR FORBS AS IDENTIFIED IN 609S.

TABLE 2. IMPACTS AND PLANTINGS IN CWQZ*[1]

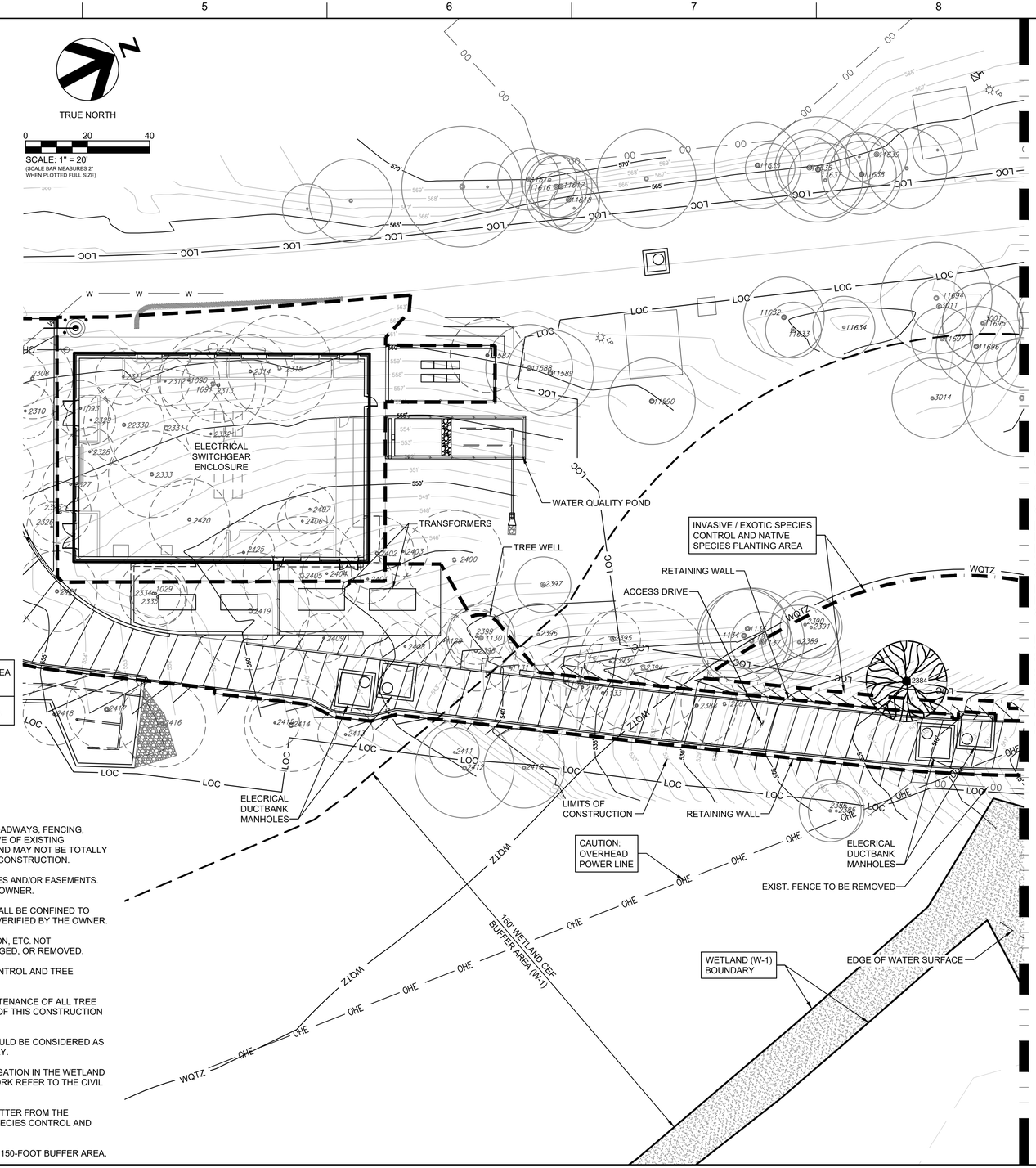
	NUMBER OF NATIVE SHADE TREES TO PLANT	NUMBER OF NATIVE UNDERSTORY TREES TO PLANT	NUMBER OF NATIVE SHRUBS TO PLANT	NUMBER OF NATIVE GRASSES/FORBS TO PLANT	IMPACT AREA (sq.ft)
TOTALS	26	26	87	250	13,068

*QUANTITIES OF TREES AND SHRUBS TO BE PLANTED TO SATISFY CITY OF AUSTIN CODE 25-8-261(C)(2) TO PLANT AT LEAST ONE NATIVE SHADE TREE AND ONE UNDERSTORY TREE PER 500 SQUARE FEET OF DISTURBANCE AREA AND ONE NATIVE SHRUB PER 150 SQUARE FEET OF DISTURBED AREA.

1;ADDITIONAL WORK INCLUDING TRASH CLEANUP, EXOTIC SPECIES REMOVAL, AND INSTALLATION OF RAIN GARDENS WILL HELP THE PROJECT MEET AND EXCEED THE CITY'S CODE REQUIREMENT FOR HERBACEOUS COVER.

GENERAL NOTES:

1. ALL EXISTING FACILITIES (PIPING, UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS, FENCING, ETC.) SHOWN AS EXISTING AND/OR TO BE REMOVED IS REPRESENTATIVE OF EXISTING CONDITIONS BASED ON INFORMATION PROVIDED BY THE SURVEYOR, AND MAY NOT BE TOTALLY ACCURATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BEGINNING CONSTRUCTION.
2. THE LIMITS OF CONSTRUCTION SHALL BE WITHIN THE SITE PROPERTY LINES AND/OR EASEMENTS. ANY DEVIATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER.
3. ALL CONSTRUCTION ACTIVITIES, INCLUDING INGRESS AND EGRESS, SHALL BE CONFINED TO THE DEFINED LIMITS OF CONSTRUCTION, AS COORDINATED WITH AND VERIFIED BY THE OWNER.
4. FENCING, STRUCTURES, ROADWAYS, EQUIPMENT, UTILITIES, VEGETATION, ETC. NOT SPECIFICALLY SHOWN TO BE REMOVED SHALL NOT BE DISTURBED, DAMAGED, OR REMOVED.
5. REFER TO CIVIL SHEETS FOR LOCATIONS OF TEMPORARY EROSION CONTROL AND TREE PROTECTION DEVICES.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS AND MAINTENANCE OF ALL TREE PROTECTION AND EROSION CONTROL MEASURES FOR THE DURATION OF THIS CONSTRUCTION PROJECT.
7. EXISTING CONTOURS AND ELEVATIONS SHOWN ON THIS DRAWING SHOULD BE CONSIDERED AS APPROXIMATE ONLY, AND SHALL BE FIELD VERIFIED WHERE NECESSARY.
8. INFORMATION SHOWN ON THIS PLAN SHEET IS PERTINENT TO THE MITIGATION IN THE WETLAND AREA AND THE 150-FOOT CEF BUFFER ZONE. FOR ADDITIONAL SITE WORK REFER TO THE CIVIL SHEETS.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND LITTER FROM THE INVASIVE / EXOTIC SPECIES CONTROL AREAS, THE INVASIVE / EXOTIC SPECIES CONTROL AND NATIVE SPECIES PLANTING AREAS, AND THE WETLAND BOUNDARY.
10. SEE SHEET G10-102 FOR THE LIST OF TREES TO BE REMOVED WITHIN THE 150-FOOT BUFFER AREA.



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HDR
Texas P.E. Firm
Registration No. F-754

ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	W. D. WEHNER
DESIGNED BY	W. D. WEHNER
DRAWN BY	M. E. WAUER
CHECKED BY	--
DATE	OCTOBER 2020
PROJECT NUMBER	10123906

STATE OF TEXAS
WILLIAM D. WEHNER
133436
LICENSED PROFESSIONAL ENGINEER
21 JANUARY 2021

CITY OF AUSTIN FOUNDED 1839

ULLRICH WTP
LOW SERVICE PUMP STATION
ELECTRICAL FEED RENEWAL

GENERAL WETLANDS MITIGATION PLAN - 1

0 1" 2"

FILENAME G10-101.dwg
SCALE 1" = 20'

SHEET 5 of 350
G10-101

INVASIVE / EXOTIC TREE REMOVAL WITHIN 150-FOOT CEF BUFFER AREA:

TREE ID	SPECIES	DBH	NOTES
2351	ULMUS PARVIFOLIA	10"	(★)
2358	ULMUS PARVIFOLIA	10"	(★)
2383	LIGUSTRUM	14"	MULTI-TRUNK (★)
2384	LIGUSTRUM	13"	(★)

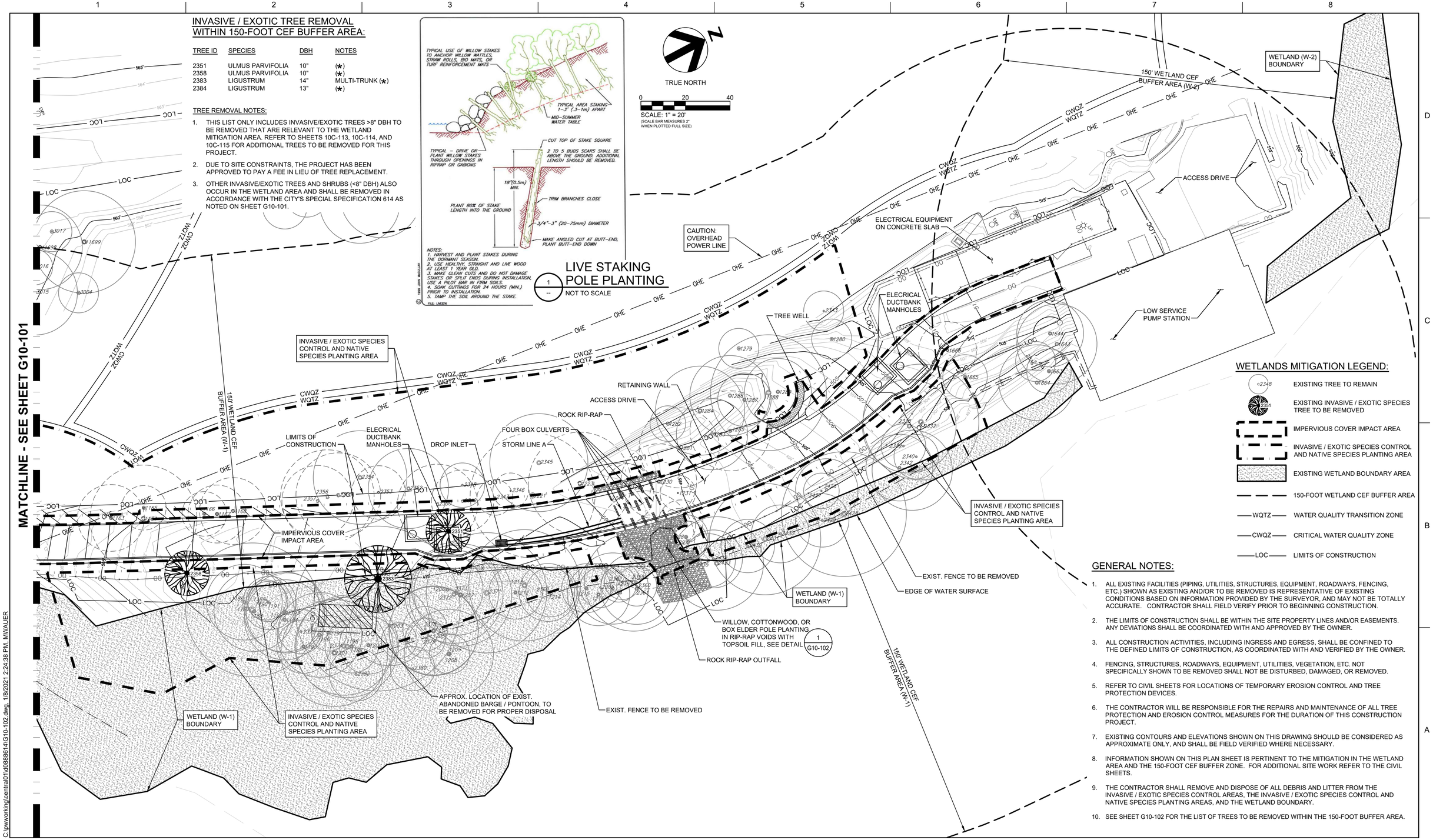
TREE REMOVAL NOTES:

1. THIS LIST ONLY INCLUDES INVASIVE/EXOTIC TREES >8" DBH TO BE REMOVED THAT ARE RELEVANT TO THE WETLAND MITIGATION AREA. REFER TO SHEETS 10C-113, 10C-114, AND 10C-115 FOR ADDITIONAL TREES TO BE REMOVED FOR THIS PROJECT.
2. DUE TO SITE CONSTRAINTS, THE PROJECT HAS BEEN APPROVED TO PAY A FEE IN LIEU OF TREE REPLACEMENT.
3. OTHER INVASIVE/EXOTIC TREES AND SHRUBS (<8" DBH) ALSO OCCUR IN THE WETLAND AREA AND SHALL BE REMOVED IN ACCORDANCE WITH THE CITY'S SPECIAL SPECIFICATION 614 AS NOTED ON SHEET G10-101.

1 -- LIVE STAKING POLE PLANTING
NOT TO SCALE

TRUE NORTH

SCALE: 1" = 20'
(SCALE BAR MEASURES 2" WHEN PLOTTED FULL SIZE)



WETLANDS MITIGATION LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING INVASIVE / EXOTIC SPECIES TREE TO BE REMOVED
- IMPERVIOUS COVER IMPACT AREA
- INVASIVE / EXOTIC SPECIES CONTROL AND NATIVE SPECIES PLANTING AREA
- EXISTING WETLAND BOUNDARY AREA
- 150-FOOT WETLAND CEF BUFFER AREA
- WQTZ — WATER QUALITY TRANSITION ZONE
- CWQZ — CRITICAL WATER QUALITY ZONE
- LOC — LIMITS OF CONSTRUCTION

GENERAL NOTES:

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Texas P.E. Firm
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GENERAL
WETLANDS MITIGATION PLAN - 2

0 1" 2"

FILENAME G10-102.dwg
SCALE 1" = 20'

SHEET 6 of 350
G10-102