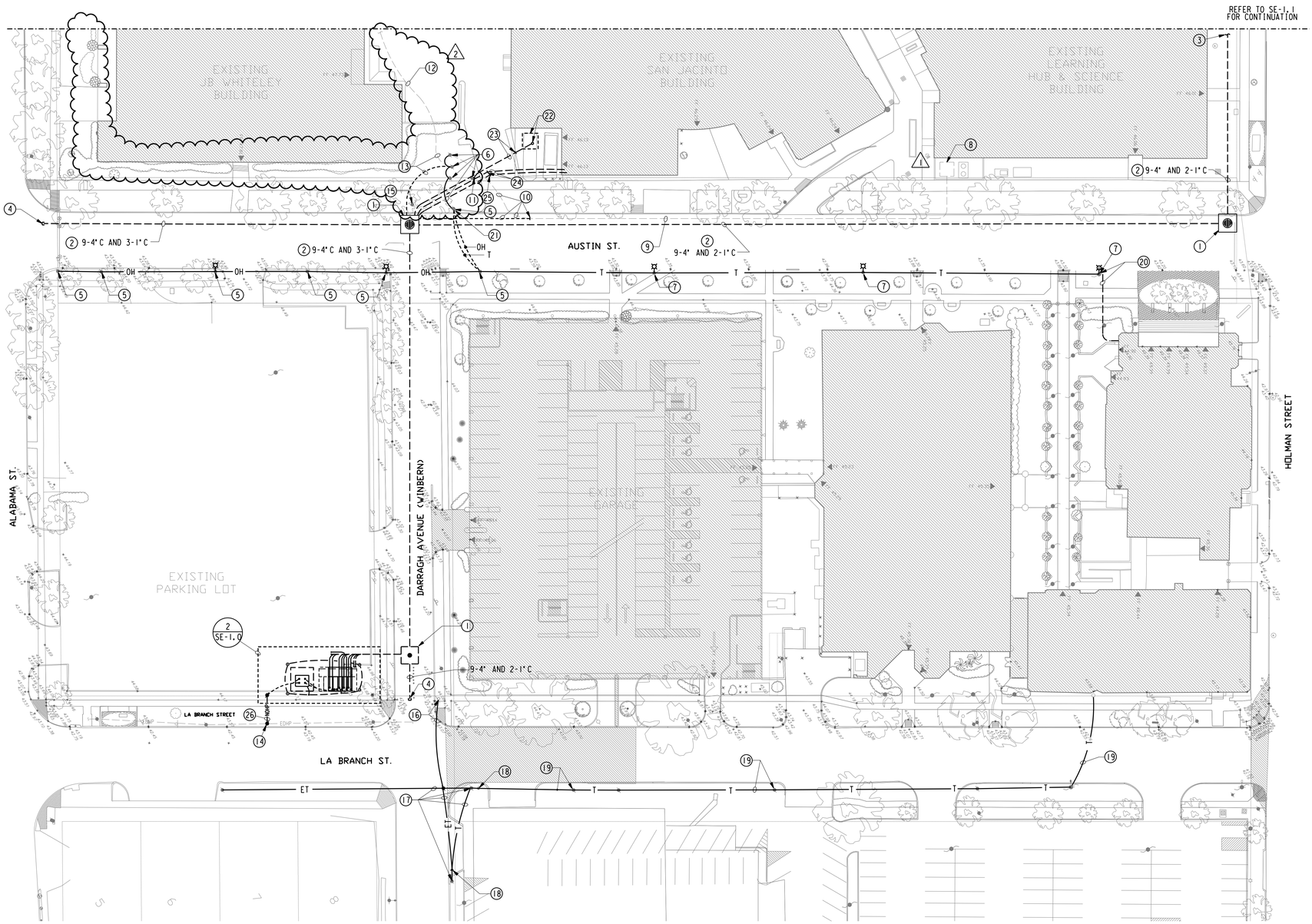
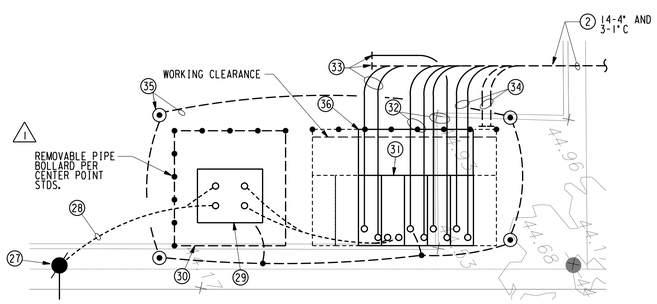


01 ELECTRICAL PLAN
SCALE: 1" = 30'-0"



02 ELECTRICAL ENLARGED PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. RE: E0.0 FOR ADDITIONAL GENERAL NOTES SYMBOLS AND ABBREVIATIONS.

B. PRIOR TO TRENCHING COORDINATE LOCATION OF EXISTING UTILITIES WITH HCC AND CIVIL ENGINEER.

C. REFER TO CIVIL DRAWING PACKAGE FOR PLAN AND PROFILE DRAWINGS FOR ADDITIONAL.

D. MAINTAIN MINIMUM SEPARATION OF 1'-0" BETWEEN NEW ELECTRICAL AND EXISTING COMMUNICATION DUCT BANK.

1 E. ALL ELECTRICAL WORK AND EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 100 2011 NEC.

DRAWING NOTES:

1. NEW ELECTRICAL FOUR WAY 10'-9" X 10'-9" X 6'-6" TYPICAL TO OLDCASTLE 1010FM78 EQUAL. REFER TO SE-2.1 FOR MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE ENCASED DUCK BANK, REFER TO SE-2.1 FOR TYPICAL SECTION. TOP OF DUCK BANK MINIMUM 36" BELOW GRADE.
3. REFER TO SE-1.1 FOR CONTINUATION.
4. INSTALL COUPLING ON END OF CONDUIT FLUSH WITH END OF DUCK BANK AND INSTALL REMOVABLE CAPS ON CONDUITS. ALSO EXTEND DUCK BANK REBAR 12" PAST END OF DUCK BANK TO ALLOW FOR FUTURE EXTENSION.
5. EXISTING CENTER POINT POLES, STREET LIGHTS/120V, SECONDARY TRANSFORMER AND PRIMARY SERVICE TO BE REMOVED BY CENTER POINT AFTER ALL EXISTING LOADS HAVE BE BACK FED AND NEW STREET LIGHT PROJECT IS COMPLETED.. COORDINATE WITH CENTER POINT.
6. EXISTING HCC PRIMARY POLES AND PRIMARY SERVICE TO BE REMOVED BY ELECTRICAL CONTRACTOR AFTER ALL EXISTING LOADS HAVE BE BACK FED.
7. EXISTING OVERHEAD TELEPHONE SERVICE TO BE REMOVED BY AT&T. STREET LIGHTS AND CENTER POINT SECONDARY AND POLES TO BE REMOVED BY CENTER POINT AFTER NEW STREET LIGHTING PROJECT IS COMPLETED. COORDINATE WITH CENTER POINT.
8. EXISTING 2000 KVA PAD MOUNTED TRANSFORMER WITH BUSHING WELLS AND LOAD BREAK ELBOWS TO BE REEFED.
9. EXISTING 4" CONDUIT WITH 1/0 PRIMARY FEEDER TO BE REMOVE AND REEFED FROM NEW PRIMARY SWITCH GEAR, REFER TO ONE LINE FOR FEEDER SIZE.
10. NEW 4" PVC CONCRETE ENCASED CONDUIT, CONNECT TO EXISTING 4" AND INSTALL NEW FEEDER. REFER TO NOTE 9.
11. 2 STUB 4" C UP EXISTING POLE, REFER TO NOTE 23.
12. TWO EXISTING 4" CONDUIT ONE SPARE AND ONE WITH 3 # 4/0 PRIMARY FEEDER TO BE REMOVE AND REEFED FROM NEW PRIMARY SWITCH GEAR, REFER TO ONE LINE FOR FEEDER SIZE. CLEAN SPARE 4" C AND PULL NEW FEEDER IN CONDUIT.
13. TWO NEW 4" PVC CONCRETE ENCASED CONDUIT CONNECT TO EXISTING SPARE 4" AND INSTALL NEW FEEDER REFER TO NOTE 12. AFTER FEEDER IS ENERGIZED CONNECT SECOND CONDUIT TO ORIGINAL FEEDER CONDUIT.
14. NEW INLINE POLE BY CENTER POINT.
15. EXISTING ABANDONED POLE TO BE REMOVE BY ELECTRICAL CONTRACTOR.
16. EXISTING POLE AND OVERHEAD SUPPORT CABLE TO BE REMOVED BY AT&T.
17. EXISTING OVERHEAD TELEPHONE CABLE (ET) TO BE REROUTED VIA POLE ON CORNER BY AT&T. CABLE TO BE SPLICED AND EXTENDED BY AT&T.
18. NEW DOWN GUY BY AT&T.
19. EXISTING ABANDONED OVERHEAD TELEPHONE CABLE AND POLES TO BE REMOVED BY AT&T.
20. EXISTING ABANDONED OVERHEAD TO UNDER GROUND TELEPHONE SERVICE TO BE CUT AT GROUND BY AT&T. UNDERGROUND PORTION TO BUILDING DEMARK BE REMOVED BY HCC'S IT CONTRACTOR.
21. FOUR EXISTING ABANDONED OVERHEAD TO UNDER GROUND TELEPHONE SERVICE TO BE CUT AT GROUND, THREE UNDERGROUND PORTION TO BUILDINGS DEMARKS TO BE REMOVED BY HCC'S IT 1 CONTRACTOR. ONE EXISTING SERVICE CABLE TO BE REMOVED BY AT&T BACK TO SERVICE POLE ON ALABAMA.
22. EXISTING 2000 KVA PAD MOUNTED TRANSFORMER PROVIDED IN SAN JACINTO BUILDING UP GRADE PACKAGE. WITH TWO 4" PVC CONDUIT STUBBED OUT.
23. 2 MAKE CONNECTION TO THREE EXISTING 4" PVC CONDUIT AND PROVIDE NEW FEEDER FROM NEW SWITCHGEAR PER ONE LINE DIAGRAM. TERMINATE WITH LOAD BREAK ELBOWS AT TRANSFORMER. EXTEND TWO TO MANHOLE. IF PRIMARY POWER IS NOT AVIABLE EXTEND THIRD TO EXISTING TERMINAL POLE AND EXTEND UP POLE AND TERMINATE ON EXISTING FUSED CUT OUT SWITCH. REPLACE EXISTING FUSE WITH NEW 100E 15KV FUSE WHEN SERVICE IS AVIABLE TERMINATE NEW FEDERER FROM NEW SWITCHGEAR AND REMOVE FEEDER UP POLE.
24. MAKE CONNECTION TO 1" EMPTY SPARE CONDUIT STUBBED OUT IN BUILDING PACKAGE AND EXTEND TO MANHOLE.
25. MAKE CONNECTION TO 1" EMPTY CONDUIT STUBBED OUT IN BUILDING PACKAGE AND EXTEND TO MANHOLE FOR ABILITY TO REMOTE MONITOR THE NEW SWITCHGEAR. PROVIDE CABLING AS REQUIRED FROM THE METER TO THE BUILDING BCAS (COORDINATE REQUIREMENTS WITH HCC.
26. NEW OVERHEAD PRIMARY BY CENTER POINT.
27. NEW PRIMARY TERMINAL POLE BY CENTER POINT.
28. NEW PRIMARY CONDUITS BY ELECTRICAL CONTRACTOR, CABLE BY CENTER POINT, REFER TO SE-2.0. FOR CONDUIT REQUIREMENTS.
29. NEW PRIMARY METER CABINET BY CENTER POINT PAD BY ELECTRICAL CONTRACTOR PER DETAIL ON SE-2.1.
30. CENTER POINT EASEMENT PER DETAIL ON SE-2.1.
31. NEW 15 KV PRIMARY SWITCH GEAR.
32. 3- 4" AND 3-1" CONDUITS. STUB 1" INTO LOW VOLTAGE COMPARTMENT, COORDINATE LOCATION WITH SWITCH GEAR SUPPLIER.
33. CAP 5-4" C FOR FUTURE EXTENSION AND EXTEND 2-4" AND TURN UP 2 AND PLUG FLUSH WITH PAD.
34. EXTEND 4-4" C FOR FUTURE. CAP 2 AND TURN UP 2 AND PLUG FLUSH WITH PAD.
35. 2/0 BARE COPPER GROUND LOOP WITH 3/4" X 10 COPPER GROUND ROD ON EACH CORNER WITH CONCRETE ACCESS BOX OLD CASTLE 3RT WITH CAST IRON COVER OR EQUAL. LOOP TO BE MINIMUM 36" BELOW GRADE WITH TOP OF ROD AT 6". ALL CONNECTIONS SHALL BE CAD WELDED. EXTEND 2/0 TO SWITCH GEAR GROUND BUS AND SIZE AS REQUIRED TO CENTER POINT METER CUBICLE.
36. CONCRETE PAD SHALL EXTEND MINIMUM 72" IN FRONT OF SWITCHGEAR TO ALLOW ROLL OUT REMOVAL OF BREAKERS. TOP OF SLAB ELEVATION SHALL BE SET ABOVE 100 YEAR FLOOD PLAIN. RESE-2.1 FOR PAD DETAIL.

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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	10/19/12	MHS
1	PERMIT REVISIONS	11/01/12	MHS
	ISSUED FOR BID	11/11/12	MHS
1	ADDENDUM #1	11/26/12	MHS

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Contract No.:		E&C Project No.:	2990.00
Drawn By:	MHS	Date:	2011-07-11
Checked By:	TJB	Date:	2011-07-11
Approved By:	MHS	Date:	2011-07-11

Ownership of Instruments of Service:
All reports, plans, specifications, computer files, field data, notes & other documents and instruments prepared for Houston Community College as instruments of service shall become the property of Houston Community College. Houston Community College shall gain all common law, statutory and other reserved rights, including the copyright thereto.

Electrical Plan

Scale:

SE-1.0

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11/21/2012