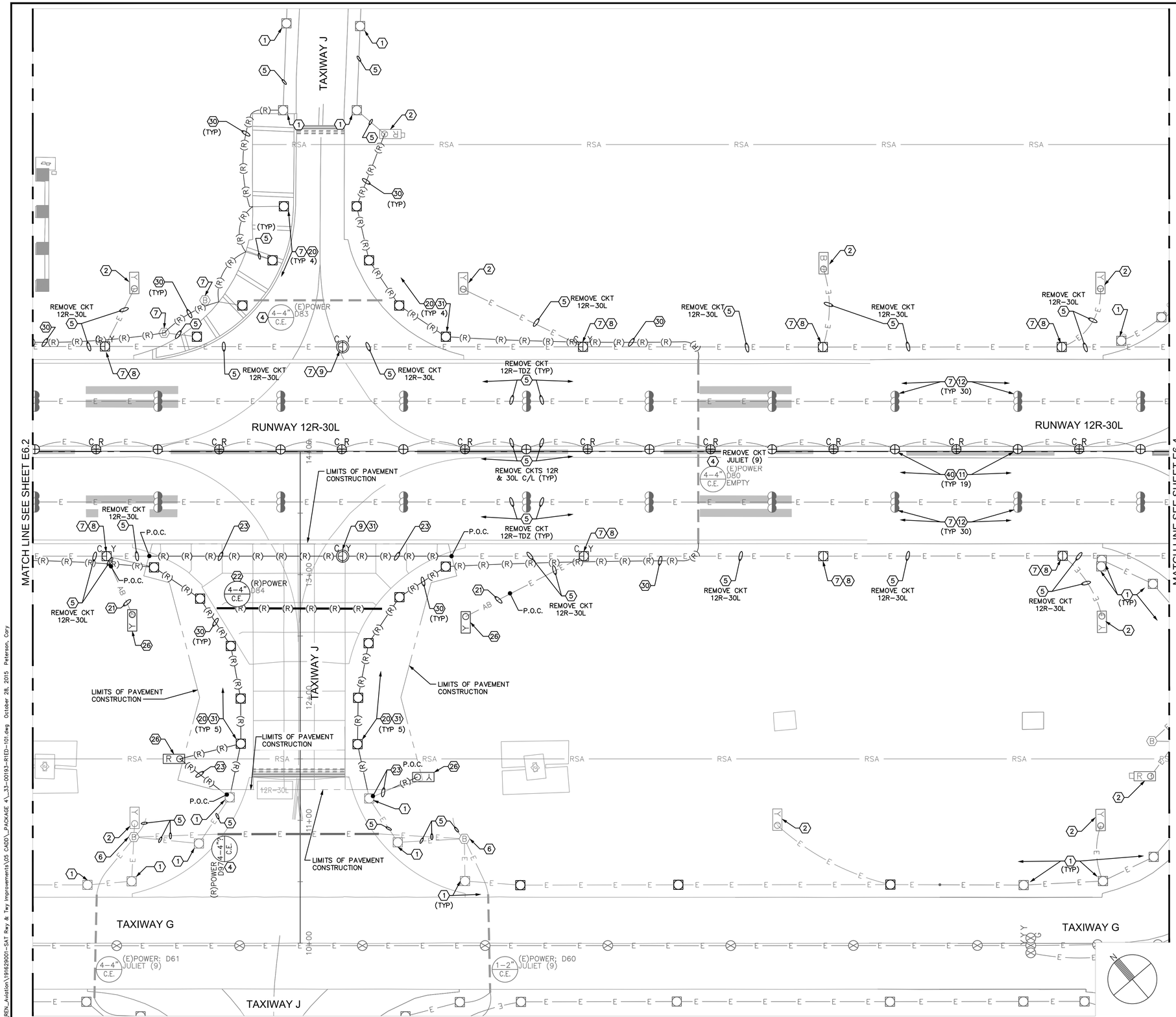
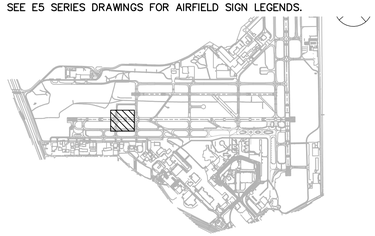


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
6. PROTECT EXISTING CONDUIT TO REMAIN OUTSIDE OF AREA OF CIVIL DEMOLITION FOR RECONNECTION TO NEW CONDUIT. PULL CONDUCTORS BACK TO ADJACENT BASE CAN TO REMAIN.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
9. SALVAGE EXISTING IN-PAVEMENT RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
12. SALVAGE EXISTING TOUCHDOWN ZONE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER.
20. SALVAGE EXISTING TAXIWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
21. REMOVE EXISTING CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED. ABANDON CONDUIT IN PLACE.
22. REMOVE EXISTING DUCT TO LIMITS OF DEMOLITION OR AS NOTED. REMOVE EXISTING CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED.
23. REMOVE EXISTING CONDUIT TO LIMITS OF DEMOLITION OR AS NOTED. PROTECT FOR CONNECTION TO NEW CONDUIT. REMOVE CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED.
26. REMOVE EXISTING SIGN, FOUNDATION AND ISOLATION TRANSFORMER FROM SITE.
30. REMOVE EXISTING CONDUIT. REMOVE CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED.
31. REMOVE EXISTING BASECAN AND ASSOCIATED CONDUIT TO LIMITS OF DEMOLITION.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.3 FOR ELECTRICAL LAYOUT PLAN.
3. SEE E2 SERIES DRAWINGS & DATA TABLES FOR NEW FIXTURE, HANDHOLE, JUNCTION CAN, BASE CAN, AND SIGN FOUNDATION LOCATIONS.
4. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.
5. SEE E5 SERIES DRAWINGS FOR AIRFIELD SIGN LEGENDS.



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CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
5/27/16

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E6.3

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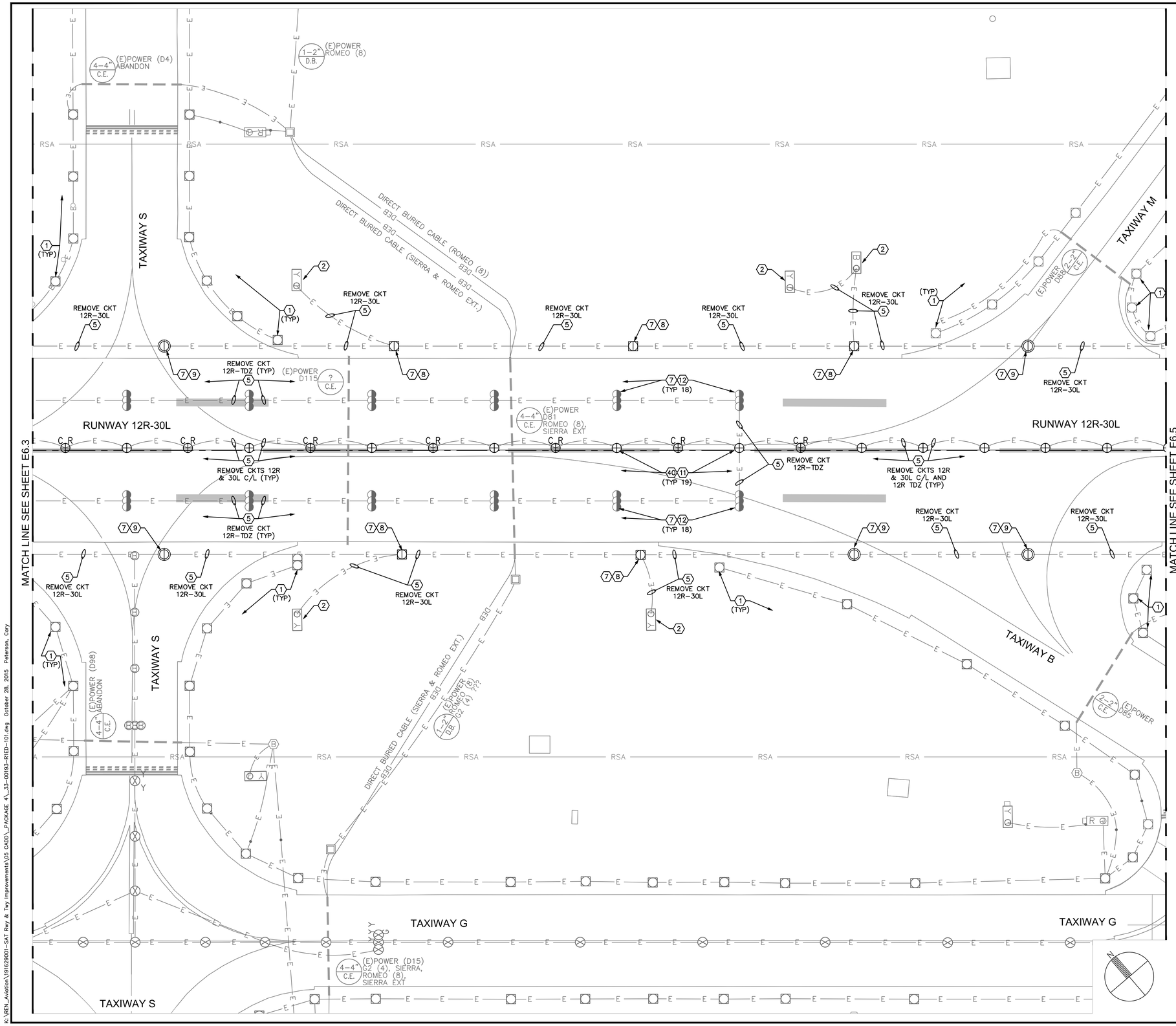
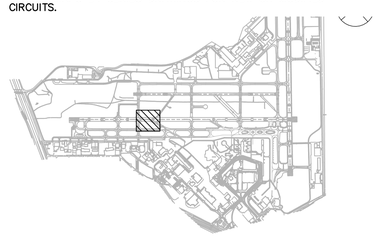


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
9. SALVAGE EXISTING IN-PAVEMENT RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
12. SALVAGE EXISTING TOUCHDOWN ZONE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.4 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



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CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84061
LICENSED
PROFESSIONAL ENGINEER
5/27/16

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E6.4

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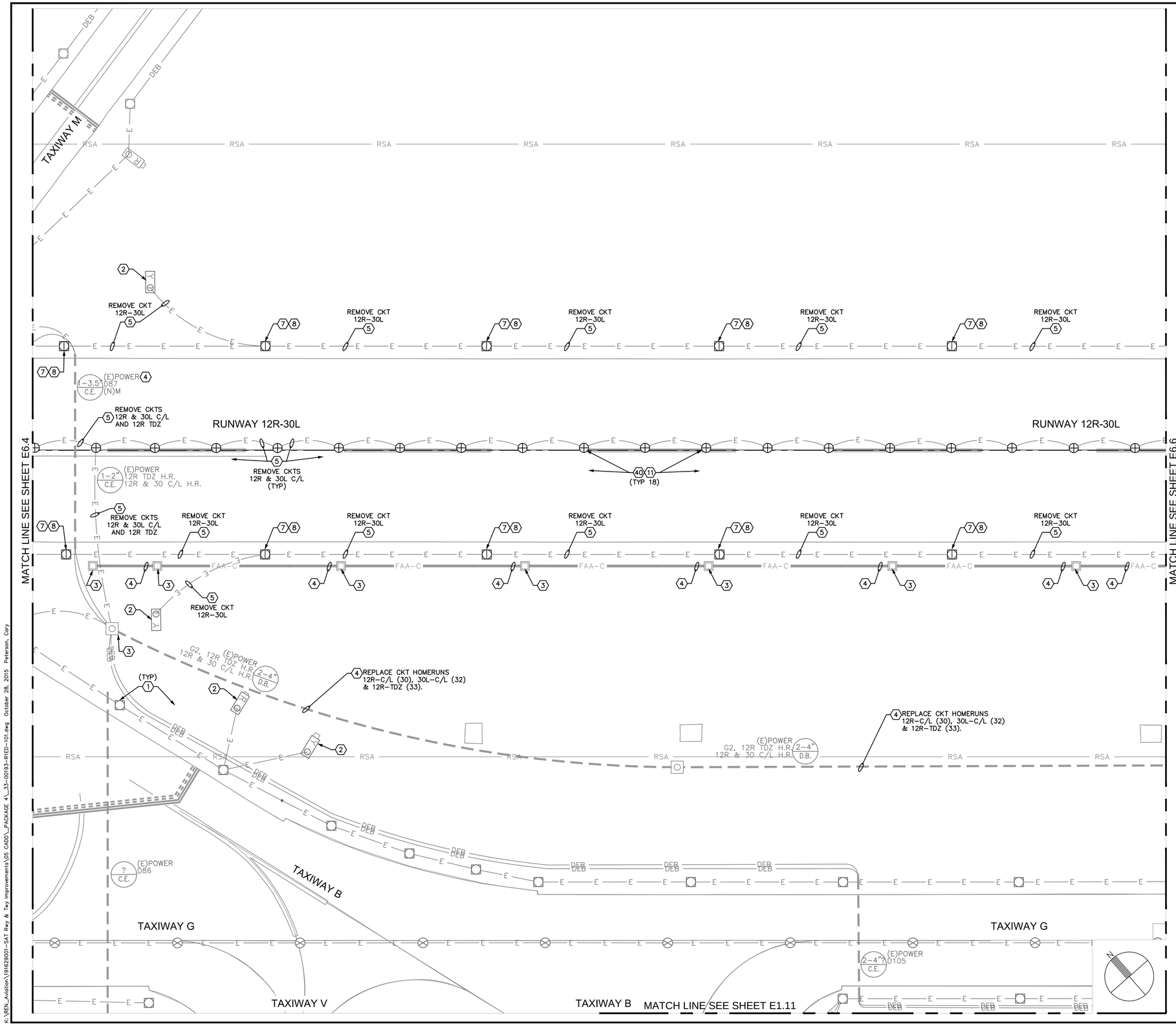
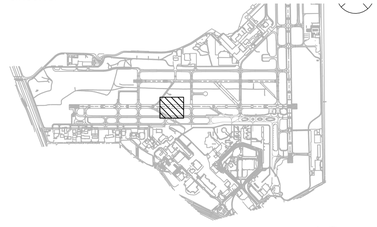


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN–PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.5 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY–HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541–9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
5/17/16

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E6.5

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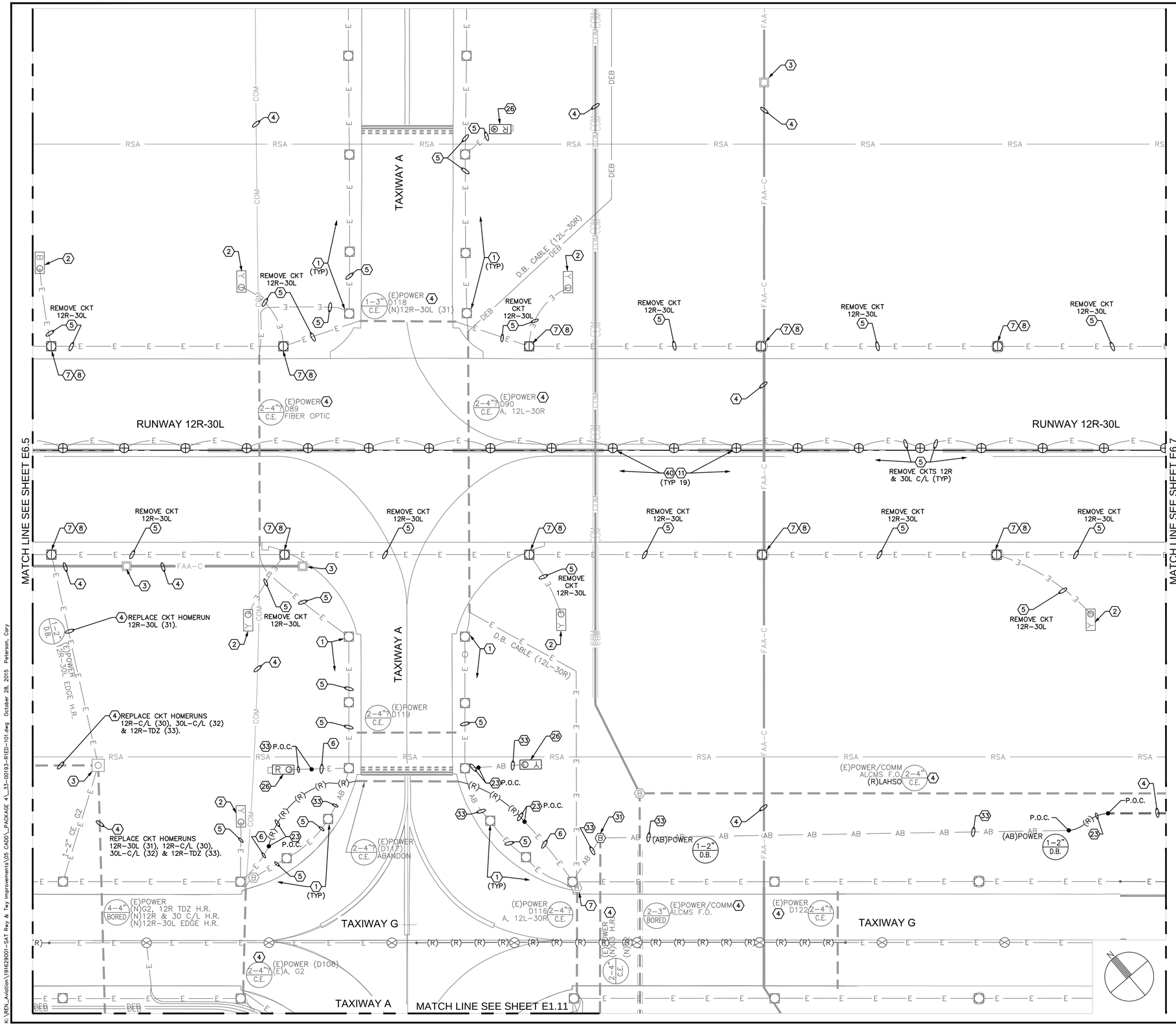
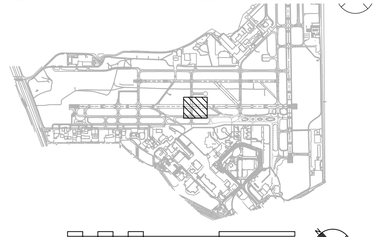


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
6. PROTECT EXISTING CONDUIT TO REMAIN OUTSIDE OF AREA OF CIVIL DEMOLITION FOR RECONNECTION TO NEW CONDUIT. PULL CONDUCTORS BACK TO ADJACENT BASE CAN TO REMAIN.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
23. REMOVE EXISTING CONDUIT TO LIMITS OF DEMOLITION OR AS NOTED. PROTECT FOR CONNECTION TO NEW CONDUIT. REMOVE CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED.
26. REMOVE EXISTING SIGN, FOUNDATION AND ISOLATION TRANSFORMER FROM SITE.
31. REMOVE EXISTING BASECAN AND ASSOCIATED CONDUIT TO LIMITS OF DEMOLITION.
33. REMOVE EXISTING CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED. ABANDON CONDUIT IN PLACE.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.6 FOR ELECTRICAL LAYOUT PLAN.
3. SEE E2 SERIES DRAWINGS & DATA TABLES FOR NEW FIXTURE, HANDHOLE, JUNCTION CAN, BASE CAN, AND SIGN FOUNDATION LOCATIONS.
4. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.
5. SEE E5 SERIES DRAWINGS FOR AIRFIELD SIGN LEGENDS.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER

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E6.6

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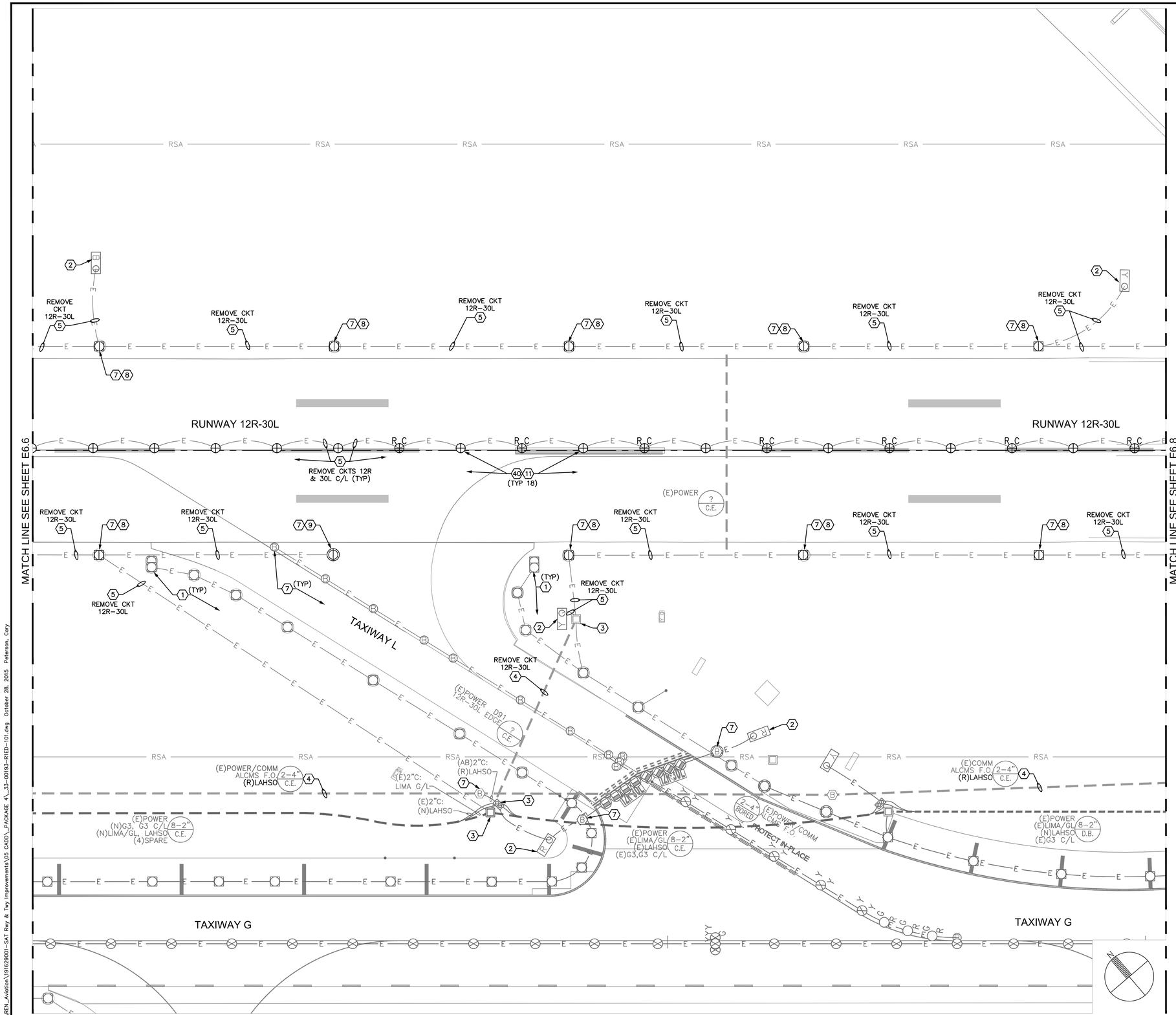
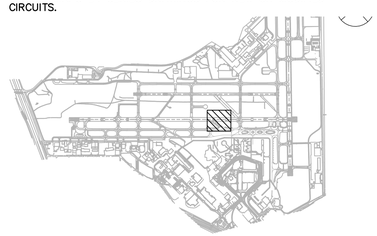


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
9. SALVAGE EXISTING IN-PAVEMENT RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.7 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



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CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM,
NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
5/31/16

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E6.7

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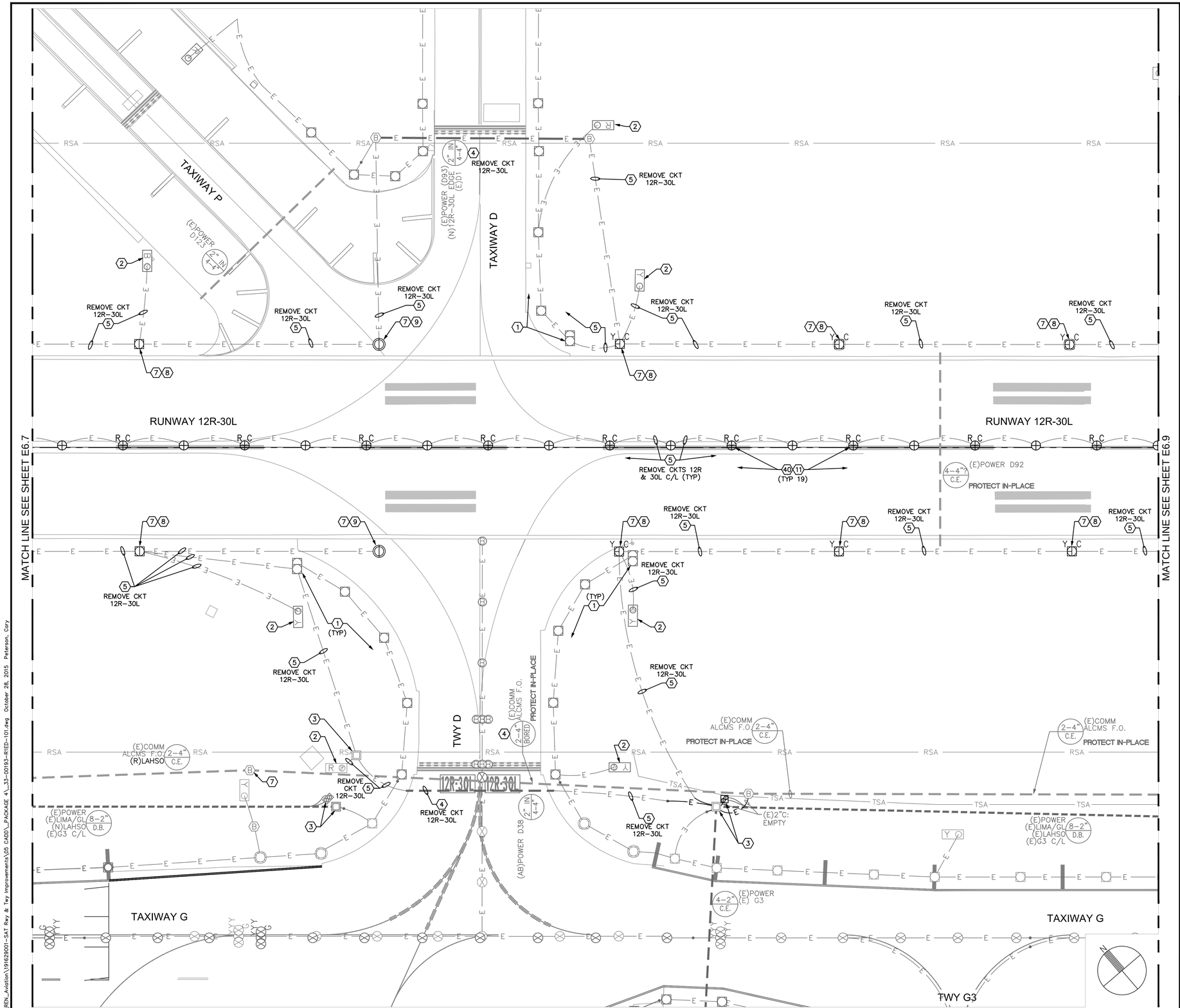
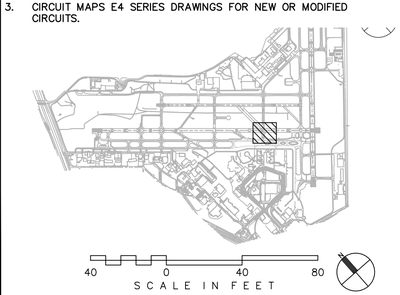


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
9. SALVAGE EXISTING IN-PAVEMENT RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.8 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
7/16

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E6.8

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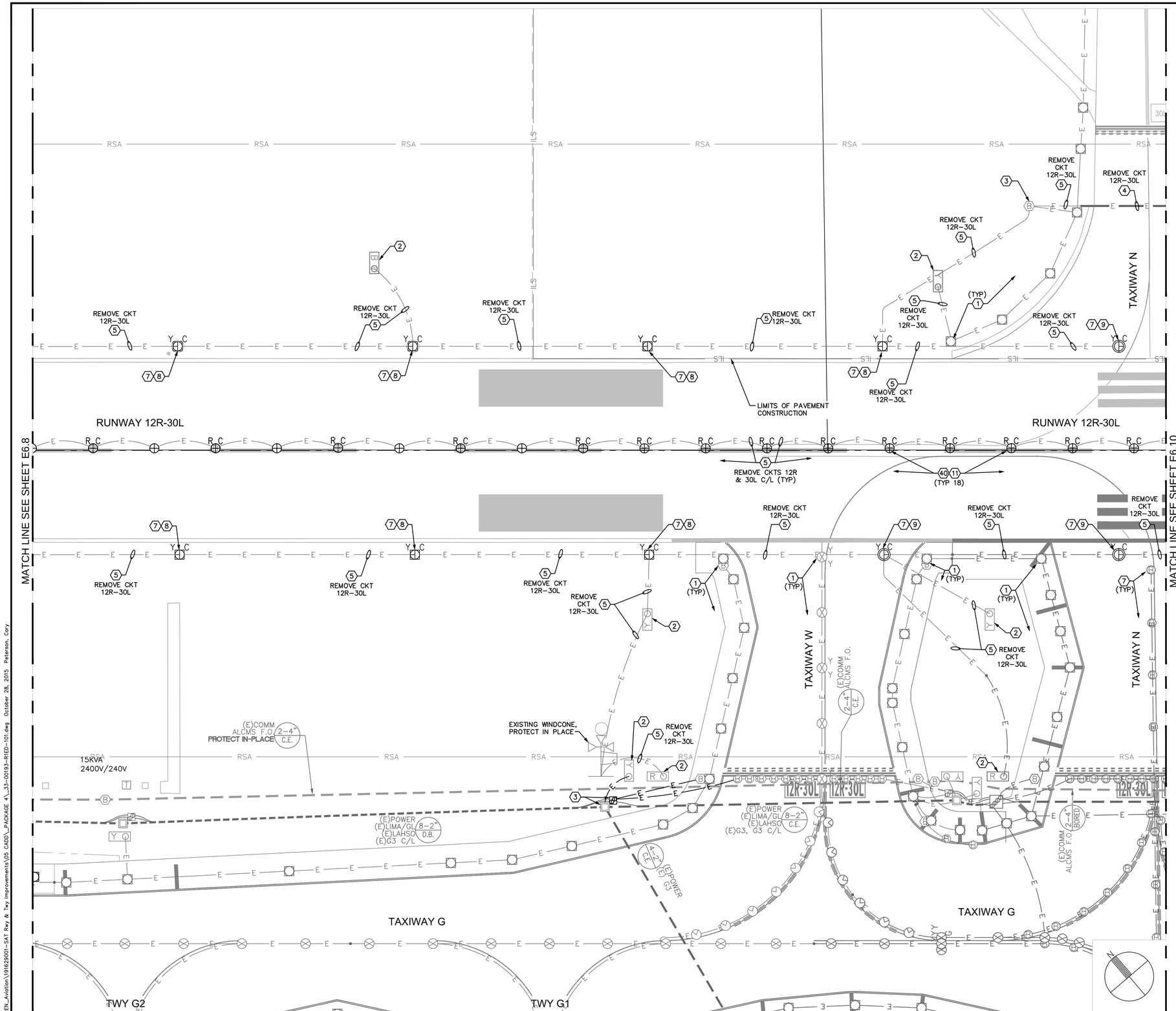
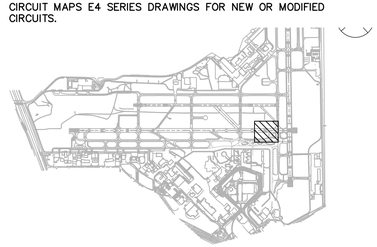


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
9. SALVAGE EXISTING IN-PAVEMENT RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.9 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED PROFESSIONAL ENGINEER
10-28-16

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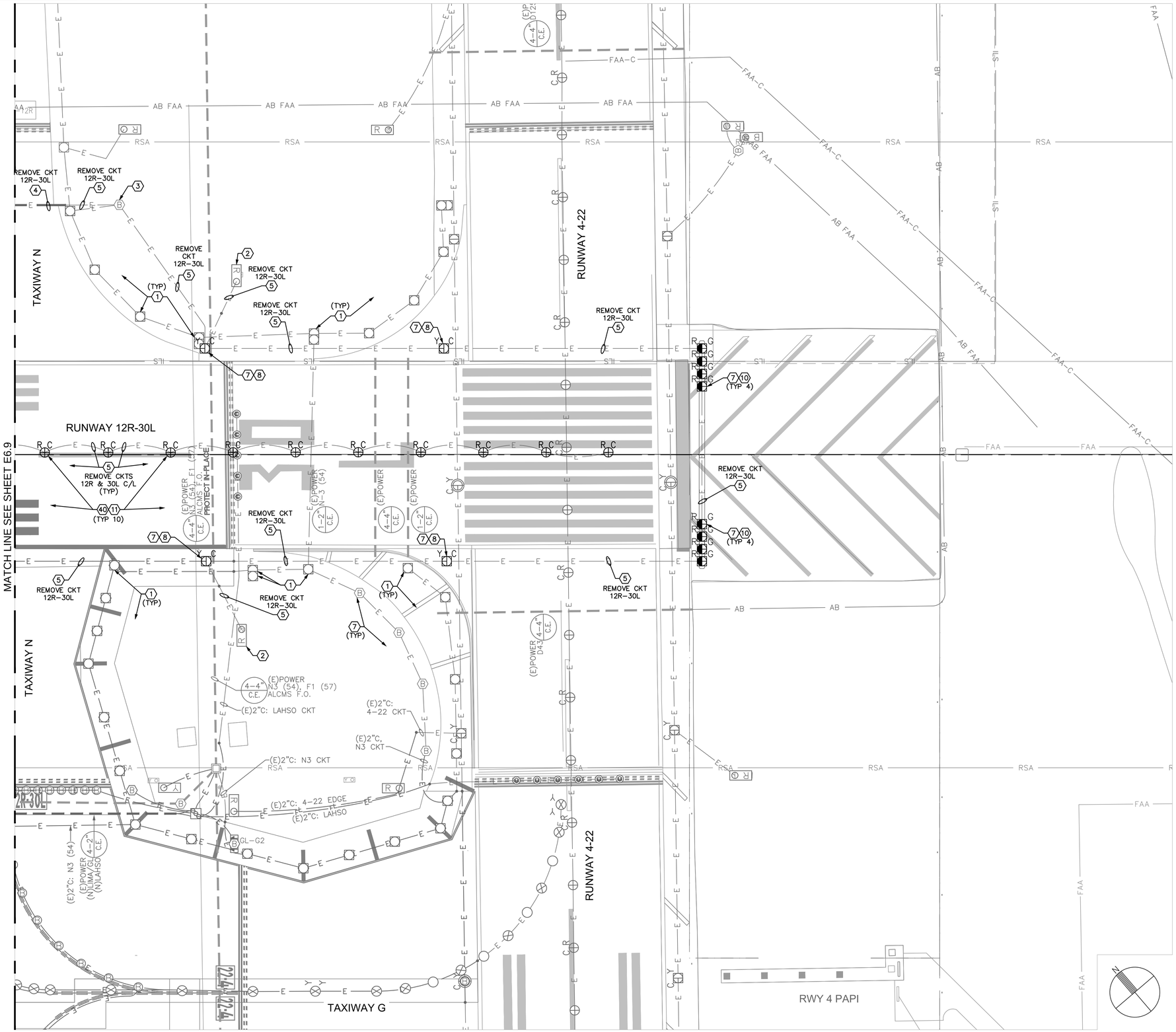
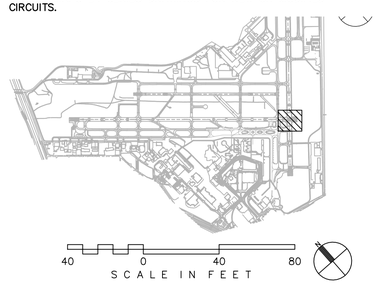


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
5. EXISTING CONDUIT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.
7. EXISTING BASECAN, PROTECT IN PLACE.
8. SALVAGE EXISTING ELEVATED RUNWAY EDGE LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF EDGE LIGHT.
10. SALVAGE EXISTING RUNWAY THRESHOLD\END LIGHT FOR REINSTALLATION. REMOVE EXISTING ISOLATION TRANSFORMER. SEE E1 SERIES DRAWINGS FOR REINSTALLATION OF THRESHOLD/END LIGHT.
11. SALVAGE EXISTING IN-PAVEMENT RUNWAY CENTERLINE LIGHT TO OWNER AND REMOVE EXISTING ISOLATION TRANSFORMER.
40. MODIFY BASECAN PER BASECAN, FOUNDATIONS & CONDUITS NOTE 70 ON E1.XX SERIES DRAWINGS.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.10 FOR ELECTRICAL LAYOUT PLAN.
3. CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.



40 0 40 80
SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
10-28-16

MARK	DATE	DESCRIPTION

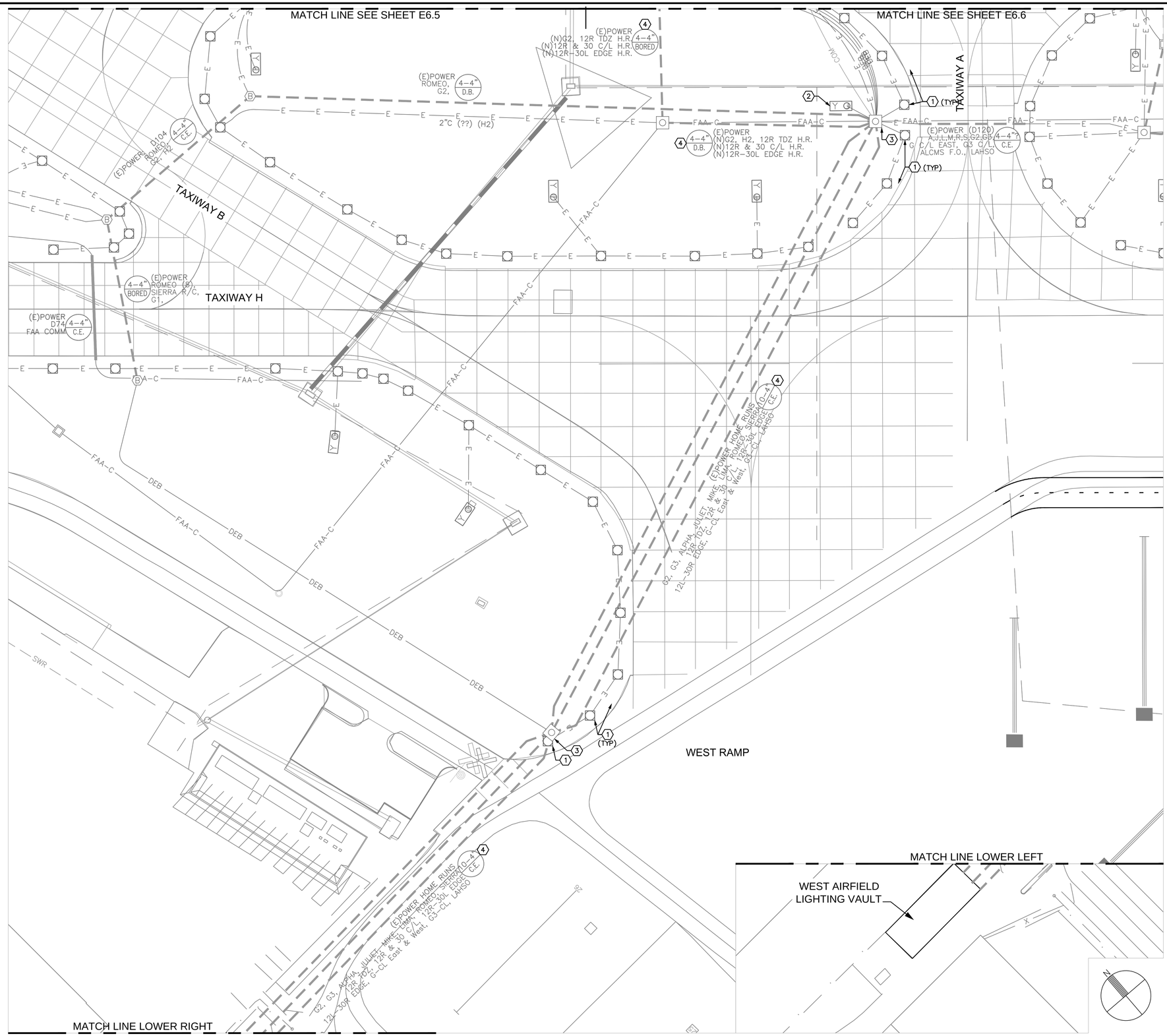
ISSUE:	----
PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1ED-101
DRAWN BY:	CMP
CHECKED BY:	ECL
COPYRIGHT:	2016

SHEET TITLE:

ELECTRICAL DEMOLITION PLAN - BASE BID

E6.10
SHEET NO. 83 OF 157

K:\REN_Aviation\191629001-SAT Rwy & Twy Improvements\05 CADD_PACKAGE 4_33-00193-R1ED-101.dwg October 28, 2015 Peterson, Cory

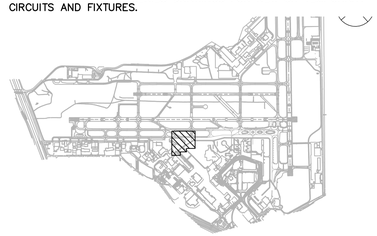


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN OR SIGN FOUNDATION, PROTECT IN PLACE.
3. EXISTING HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. REMOVE CONDUCTOR(S) AS NOTED.

GENERAL NOTES

1. SEE DRAWING E1.11 FOR ELECTRICAL LAYOUT PLAN.
2. SEE CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR TEMPORARY CIRCUITS AND FIXTURES.



40 0 40 80
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LICENSED PROFESSIONAL ENGINEER
5/27/16

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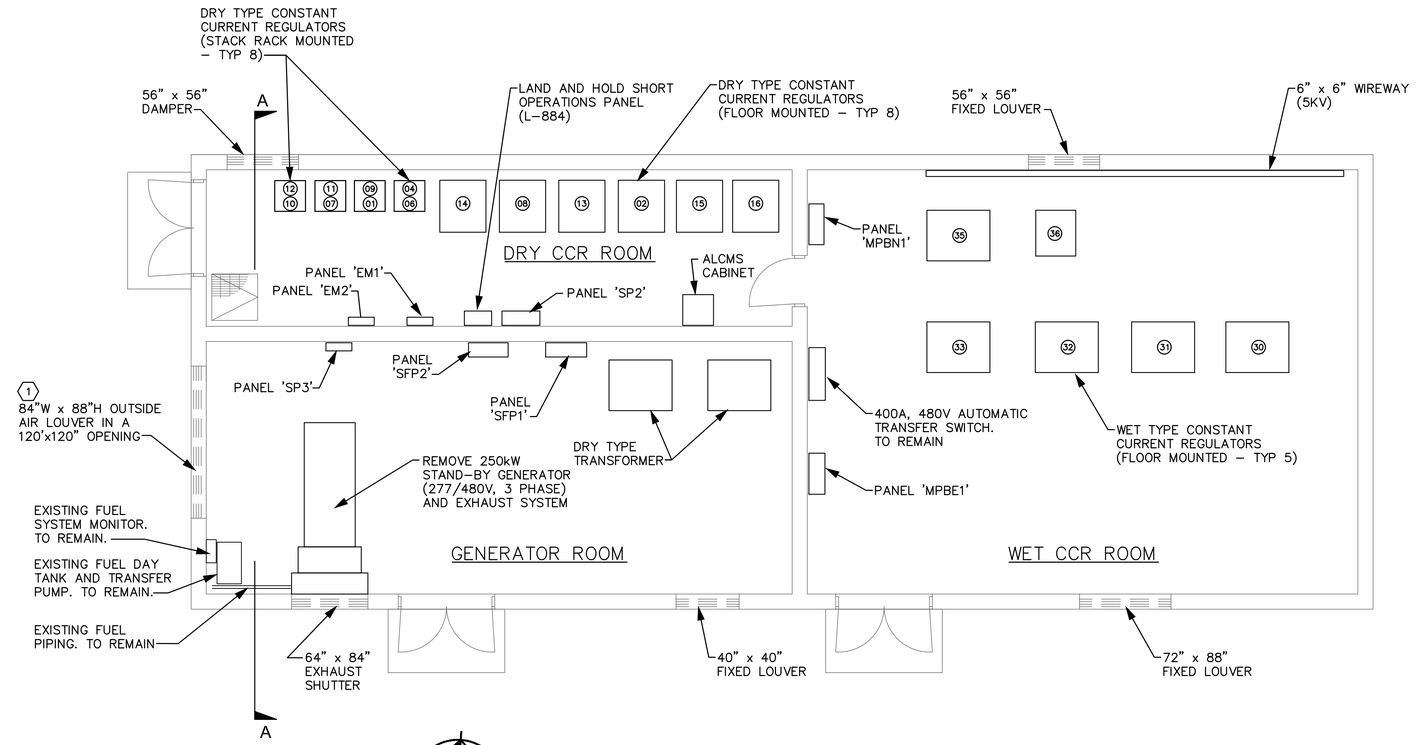
E6.11

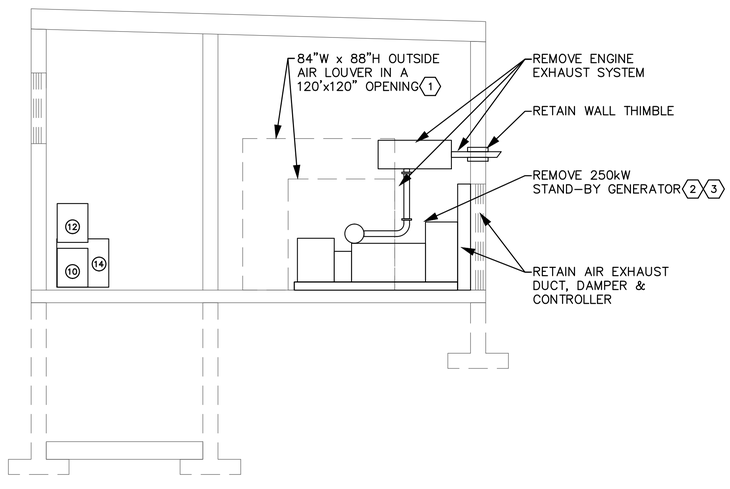
SHEET NO. 84 OF 157

K:\REN_Aviation\191629001-SAT Rwy & Twy Improvements\05 CADD_PACKAGE 4_33-00193-R1ED-101.dwg October 28, 2015 Peterson, Cory



WEST AIRFIELD LIGHTING VAULT - EXISTING ELECTRICAL PLAN

N.T.S.



WEST AIRFIELD LIGHTING VAULT - EXISTING ELECTRICAL SECTION A-A

N.T.S.

WEST ALV MODIFICATION NOTES

1. IF REQUIRED FOR GENERATOR REMOVAL AND REPLACEMENT REMOVE AND REINSTALL LOUVER ASSEMBLE, PROTECT MOUNTING ATTACHMENTS IN PLACE.
2. PROVIDE FUEL PIPING MODIFICATIONS FOR THE RECONNECTION TO THE EXISTING DIESEL FUEL SUPPLY AND RETURN SYSTEM.
3. PROVIDE RECONNECTION OF THE ALCMS POINTS FOR GENERATOR OPERATION AND MONITORING. PAID UNDER THE ALCMS MODIFICATION BID ITEM L–100–5.2.

CONSTANT CURRENT REGULATOR SCHEDULE

SYM	DESCRIPTION	SYM	DESCRIPTION
01	(E) 3–STEP, 7.5 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G3 C/L to LAHSO"	30	(E) 5–STEP, 30 kW, 480/1, 20A CCR, RW 12R CENTER LINE CIRCUIT
02	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G–1"	31	(E) 5–STEP, 50 kW, 480/1, 20A CCR, RW 12R–30L EDGE CIRCUIT & LAHSO STOP BAR
03		32	(E) 5–STEP, 30 kW, 480/1, 20A CCR, RW 30L CENTER LINE CIRCUIT
04	(E) 3–STEP, 10 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G–2"	33	(E) 5–STEP, 30 kW, 480/1, 20A CCR, RW 12R TOUCHDOWN ZONE CIRCUIT
05		34	
06	(E) 3–STEP, 10 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G–3"	35	(E) 3–STEP, 30 kW, 480/1, 6.6A CCR, RW 12L–30R EDGE CIRCUIT
07	(E) 3–STEP, 7.5 kW, 208/1, 6.6A CCR, TAXIWAY "M", CIRCUIT "MIKE"	36	(E) 3–STEP, 15 kW, 480/1, 6.6A CCR, TAXIWAY "RC", CIRCUIT "SIERRA R/C"
08	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "R", CIRCUIT "ROMEO"		
09	(E) 3–STEP, 7.5 kW, 208/1, 6.6A CCR, TAXIWAY "J", CIRCUIT "JULIET"		
10	(E) 3–STEP, 7.5 kW, 208/1, 6.6A CCR, TAXIWAY "L & RGL", CIRCUIT "LIMA"		
11	(E) 3–STEP, 7.5 kW, 480/1, 6.6A CCR, TAXIWAY "A", CIRCUIT "ALPHA"		
12	(E) 3–STEP, 7.5 kW, 208/1, 6.6A CCR, TAXIWAY "B", CIRCUIT "BRAVO"		
13	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "H" WEST, CIRCUIT "H–1"		
14	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "H" EAST, CIRCUIT "H–2"		
15	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G C/L EAST"		
16	(E) 3–STEP, 15 kW, 208/1, 6.6A CCR, TAXIWAY "G", CIRCUIT "G C/L WEST"		

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY–HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541–9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84061
LICENSED
PROFESSIONAL ENGINEER
5/17/16

MARK	DATE	DESCRIPTION
ISSUE:		---

PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1EV-501
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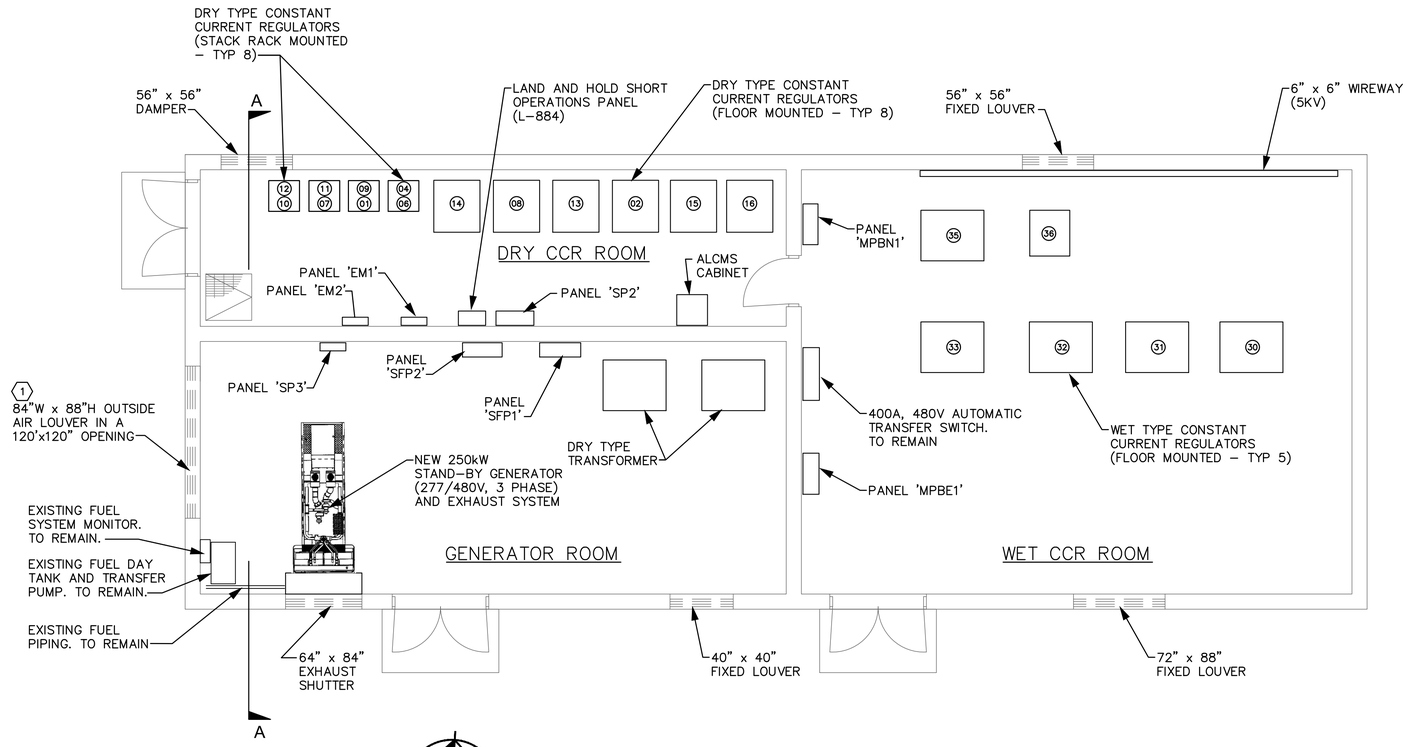
SHEET TITLE:

WEST AIRFIELD LIGHTING VAULT - EXISTING

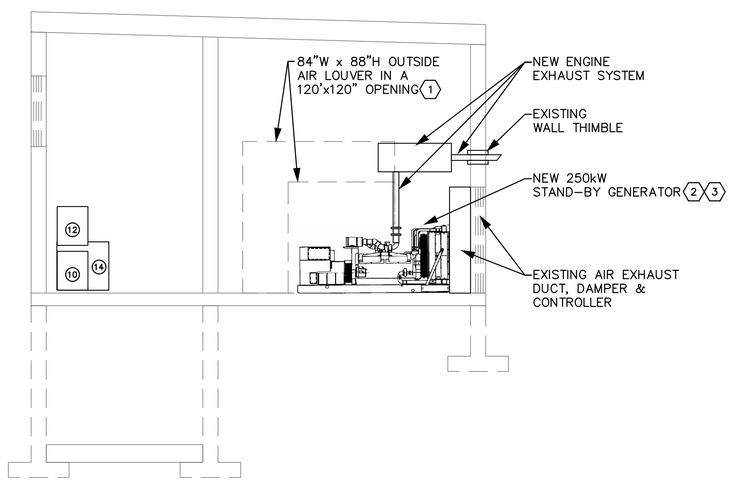
E7.1

K:\REN_Aviation\191629001–SAT Rwy & Twy Improvements\05 CADD_PACKAGE 4_33–00193–R1EV–501.dwg October 28, 2015 Peterson, Cory



WEST AIRFIELD LIGHTING VAULT - MODIFIED ELECTRICAL PLAN

N.T.S.



WEST ALV MODIFICATION NOTES

1. IF REQUIRED FOR GENERATOR REMOVAL AND REPLACEMENT REMOVE AND REINSTALL LOUVER ASSEMBLE, PROTECT MOUNTING ATTACHMENTS IN PLACE.
2. PROVIDE FUEL PIPING MODIFICATIONS FOR THE RECONNECTION TO THE EXISTING DIESEL FUEL SUPPLY AND RETURN SYSTEM.
3. PROVIDE RECONNECTION OF THE ALCMS POINTS FOR GENERATOR OPERATION AND MONITORING. PAID UNDER THE ALCMS MODIFICATION BID ITEM L–100–5.2.

WEST AIRFIELD LIGHTING VAULT - MODIFIED ELECTRICAL SECTION A-A

N.T.S.

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER
5/17/16

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WEST AIRFIELD LIGHTING VAULT - MODIFIED

E7.2

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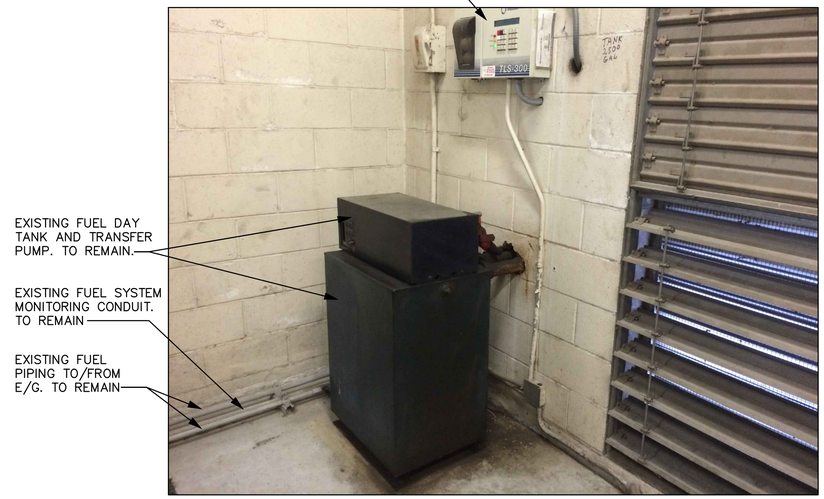
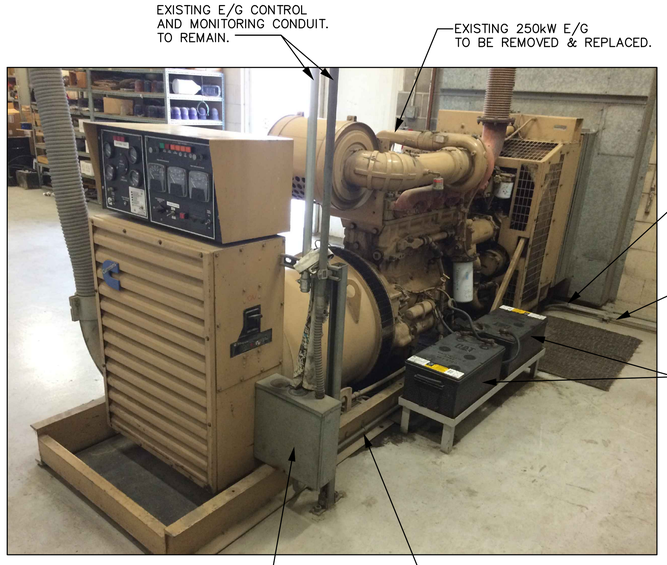
WEST ALV - ENGINE GENERATOR EAST ELEVATION

N.T.S.



EXISTING E/G FUEL DAY TANK AND TRANSFER PUMP

N.T.S.



WEST ALV - ENGINE GENERATOR WEST ELEVATION

N.T.S.

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
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SAN ANTONIO, TEXAS 78216
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STATE OF TEXAS
ERIC C. LOVEJOY
84061
LICENSED PROFESSIONAL ENGINEER
5/6/16

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SHEET TITLE:

MISCELLANEOUS VAULT DETAILS

E7.3

SHEET NO. 87 OF 157

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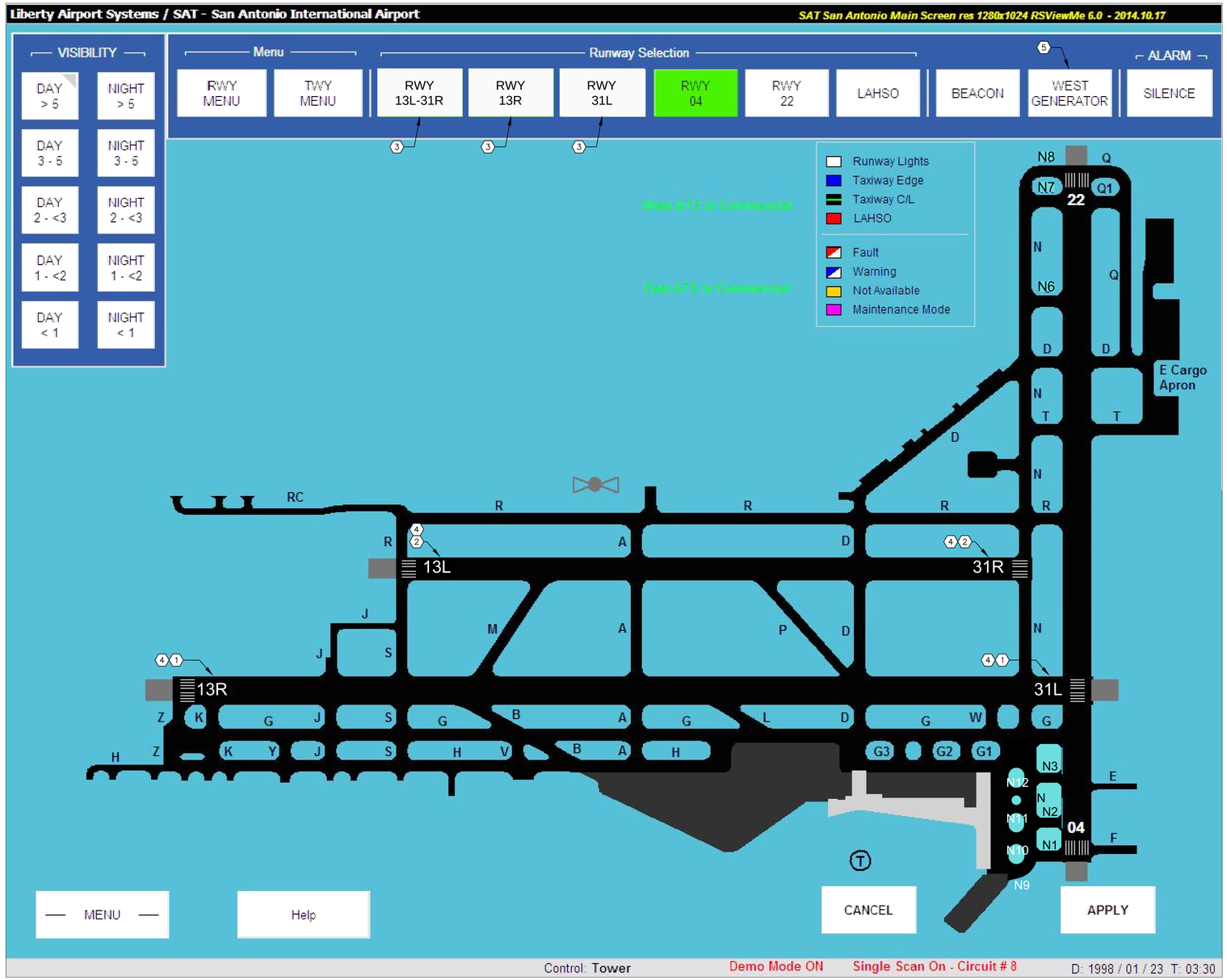

ALCMS SHEET NO`TES

1. CHANGE RUNWAY DESIGNATIONS FOR RUNWAY 12R–30L TO RUNWAY 13R–31L ON ALL MONITOR PAGES.
2. CHANGE RUNWAY DESIGNATIONS FOR RUNWAY 12L–30R TO RUNWAY 13L–31R ON ALL MONITOR PAGES.
3. CHANGE RUNWAY DESIGNATIONS ON RUNWAY CONTROL BUTTONS FROM 12L TO 13L, 12R TO 13R, 30L TO 31L, AND 30R TO 31R ON ALL MONITOR PAGES
4. CHANGE RUNWAY DESIGNATIONS ON ALL OUTPUT – ALARMS, ALTERS, PRINT OUTS, ETC. – FOR RUNWAYS 12R–30L & 12L–30R AND ASSOCIATED ITEMS – THROUGHOUT THE SOFTWARE.
5. CONNECT THE ASSOCIATED CONTROLS TO THE NEW ENGINE GENERATOR CONTROLS AND SENSORS.

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY–HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541–9166
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RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

STATE OF TEXAS
ERIC C. LOVEJOY
84081
LICENSED
PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1ES-601
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SHEET TITLE:

ALCMS MODIFICATIONS

E8.1

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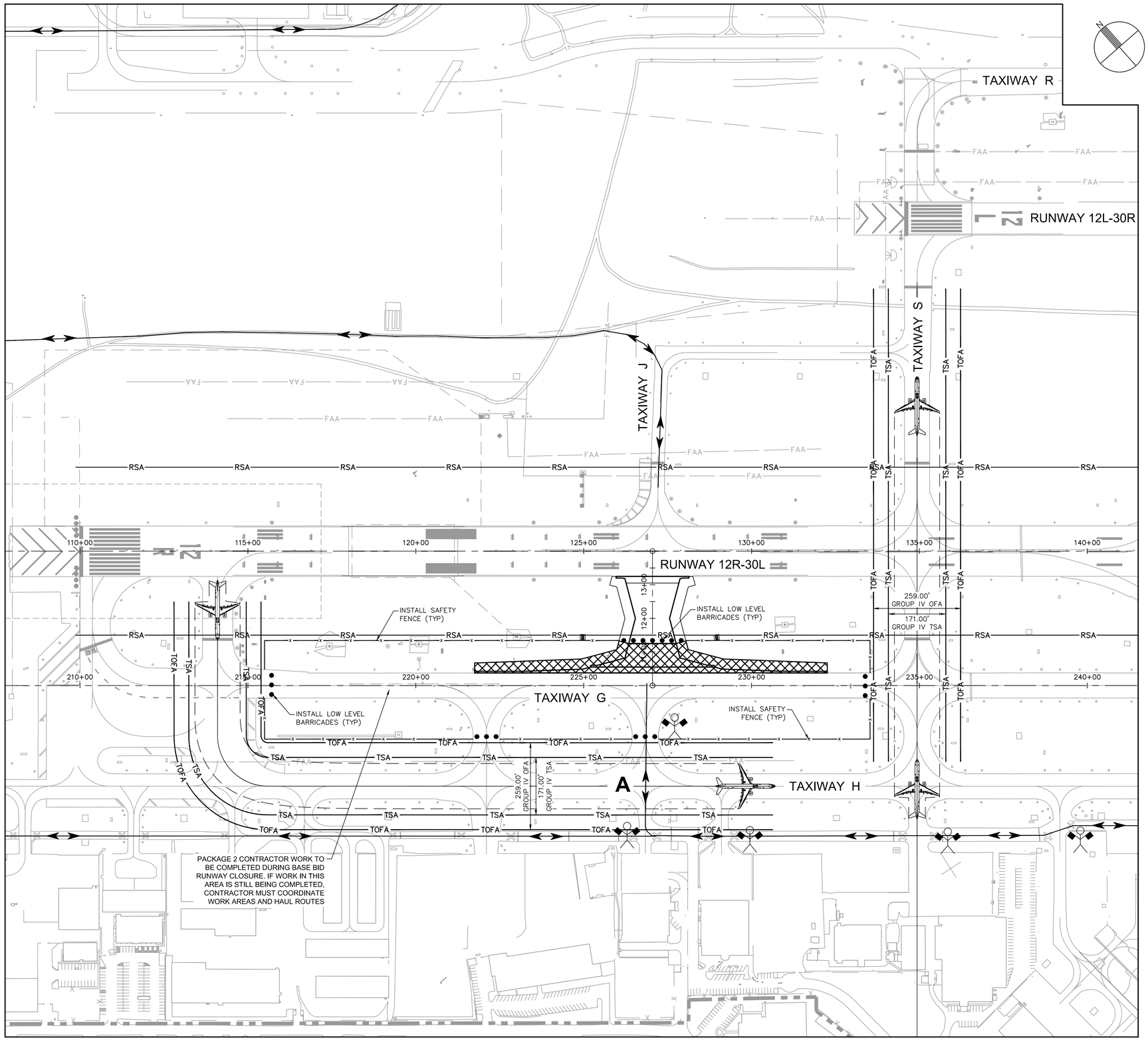


LEGEND

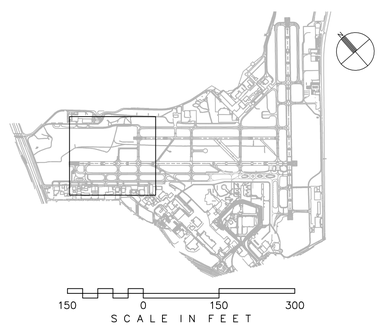
- INSTALL LOW LEVEL BARRICADES PER DETAILS ON SHEET C2.3
- INSTALL LINKED LOW LEVEL BARRICADES PER DETAILS ON SHEET C2.3
- AIRCRAFT WINGTIP
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- INSTALL ORANGE SAFETY FENCE PER DETAILS ON SHEET C2.3
- HAUL ROUTE
- TAXIING AIRCRAFT
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR PER DETAILS ON SHEET C2.3
- A-B — INNER TAXILANE CROSSINGS

PHASING LEGEND

- PACKAGE 4 – ALTERNATE 1 (DURATION = 60 DAYS)

GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL COVER INDICATED AIRFIELD GUIDANCE SIGNS OR PORTIONS OF SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE. WORK WILL BE UNDER THE VARIOUS L-105 TEMPORARY ELECTRICAL ITEMS.
5. THE CONTRACTOR SHALL COVER INDICATED AIRFIELD LIGHTS FOR TAXIWAYS THAT ARE CLOSED DURING EACH PHASE. WORK SHALL BE UNDER THE VARIOUS L-105 TEMPORARY ELECTRICAL ITEMS.
6. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).
7. THE CONTRACTOR SHALL PROVIDE A VACUUM SWEEPER FOR EVERY 2 RUNWAY CROSSINGS PLUS A WORKING BACKUP. (NPI)
8. CONTRACTOR SHALL PROVIDE A VACUUM SWEEPER FOR EVERY 3 GA/FBO ENTRANCES PLUS A WORKING BACKUP. (NPI)
9. CONTRACTOR SHALL PROVIDE A VACUUM SWEEPER PLUS A WORKING BACKUP AT ANY LOCATION WHERE THEY ARE CROSSING THE INNER TAXILANE (A & B ETC.) OR ACTIVE TAXIWAYS. (NPI)
10. CONTRACTOR SHALL MAINTAIN EXISTING RUNWAY PAVEMENT MARKINGS IN THEIR CURRENT CONDITION. ANY DAMAGE OR DIRTYING OF THE STRIPING WILL REQUIRE THE CONTRACTOR TO REMARK THOSE AREAS AT NO ADDITIONAL COST TO THE OWNER.



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SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/03/16

MARK	DATE	DESCRIPTION
ISSUE:		

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FILE NAME:	33-00193-R1CO-401-D01
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CHECKED BY:	MAN
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SHEET TITLE:

OPERATIONS AND PHASING PLAN - ALTERNATE 1

C2.4

SHEET NO. 89 OF 157

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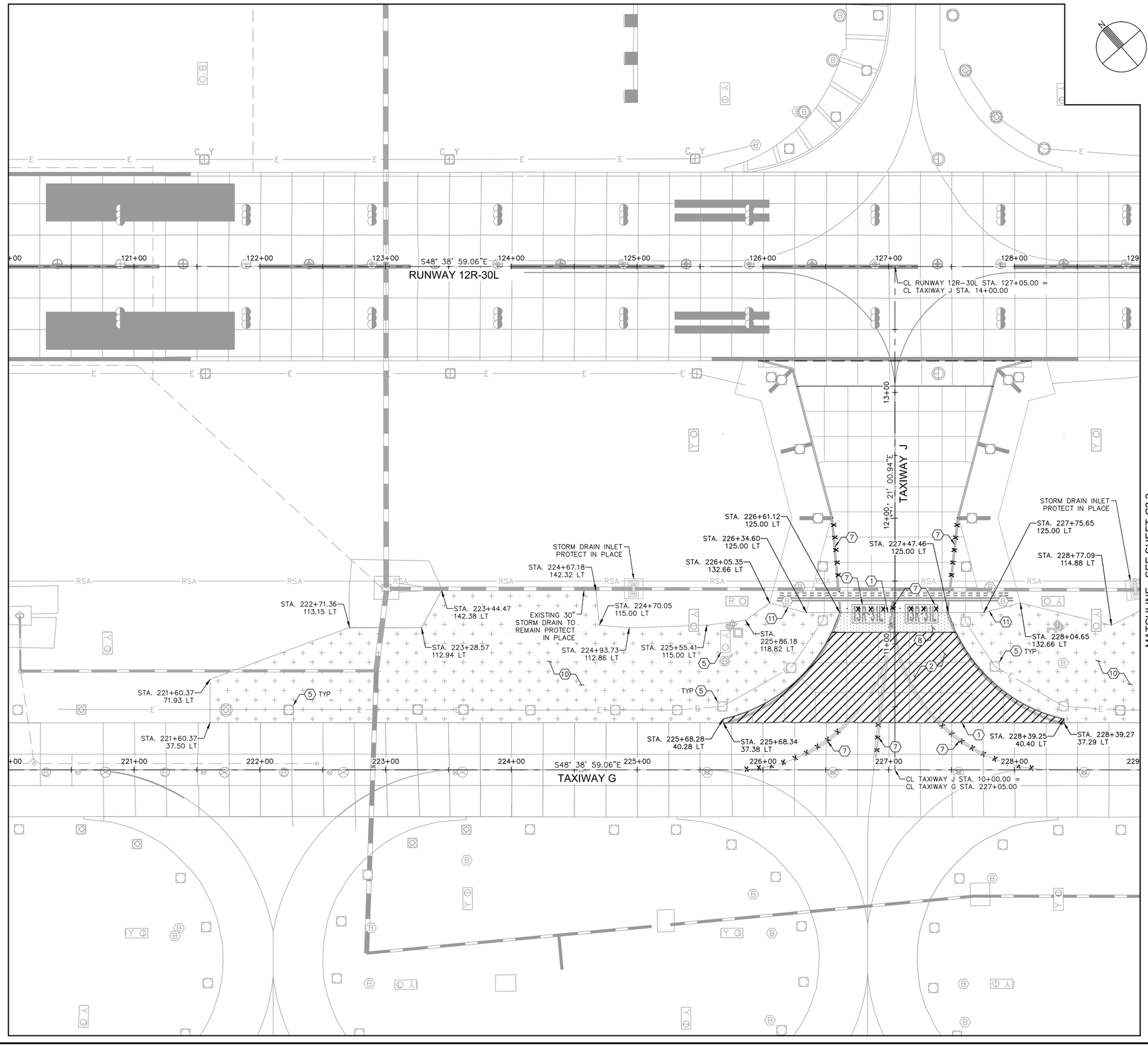


LEGEND

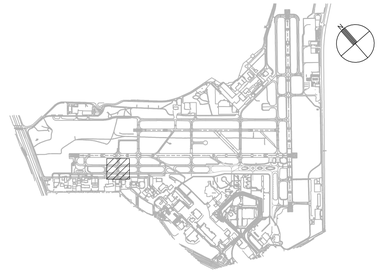
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- PAVEMENT MARKING OBLITERATION

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN (NPI).
5. STATIONING IS BASED ON TAXIWAY G CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE, LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. PAVEMENT MARKING TO BE OBLITERATED
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. 2" AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT
12. PROTECT IN PLACE
13. INSTALL PIPE CAP



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CITY OF SAN ANTONIO AVIATION DEPARTMENT

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MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/03/16

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-0019X
FILE NAME:	33-00193-R1CD-101-D01
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SHEET TITLE:

DEMOLITION PLAN - TAXIWAY J - ALTERNATE 1

C3.2
SHEET NO. 90 OF 157

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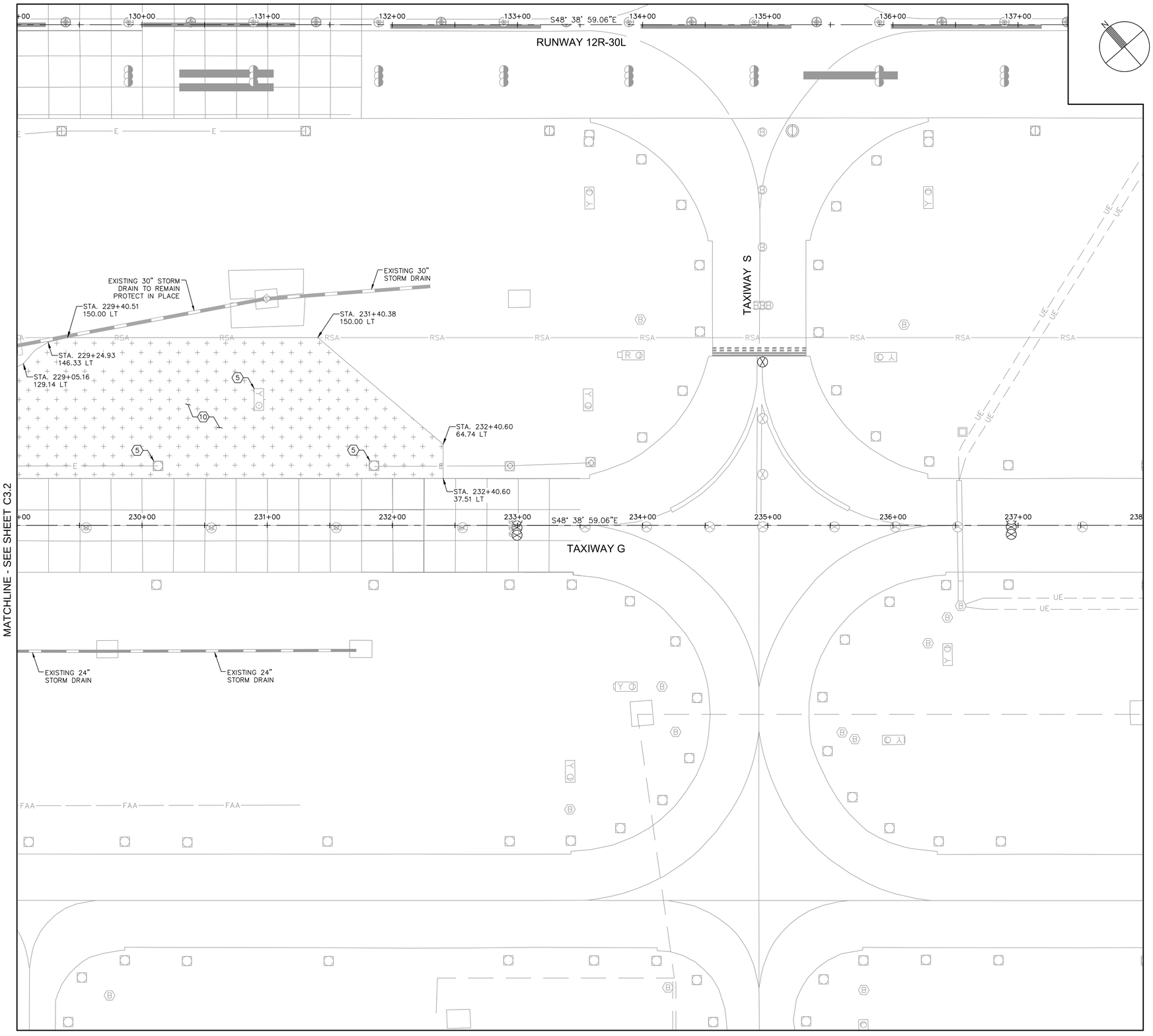


LEGEND

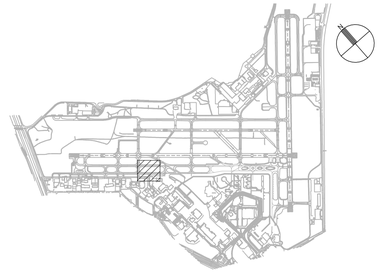
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- x x x PAVEMENT MARKING OBLITERATION

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN (NPI).
5. STATIONING IS BASED ON TAXIWAY G CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE, LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. PAVEMENT MARKING TO BE OBLITERATED
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. 2" AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT
12. PROTECT IN PLACE
13. INSTALL PIPE CAP



40 0 40 80
SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L ELECTRICAL IMPROVEMENTS AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 4)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/03/16

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-0019X
FILE NAME:	33-00193-R1CD-101-D01
DRAWN BY:	CAD
CHECKED BY:	MAN
COPYRIGHT:	2016

SHEET TITLE:

DEMOLITION PLAN - TAXIWAY J - ALTERNATE 1

C3.3
SHEET NO. 91 OF 157

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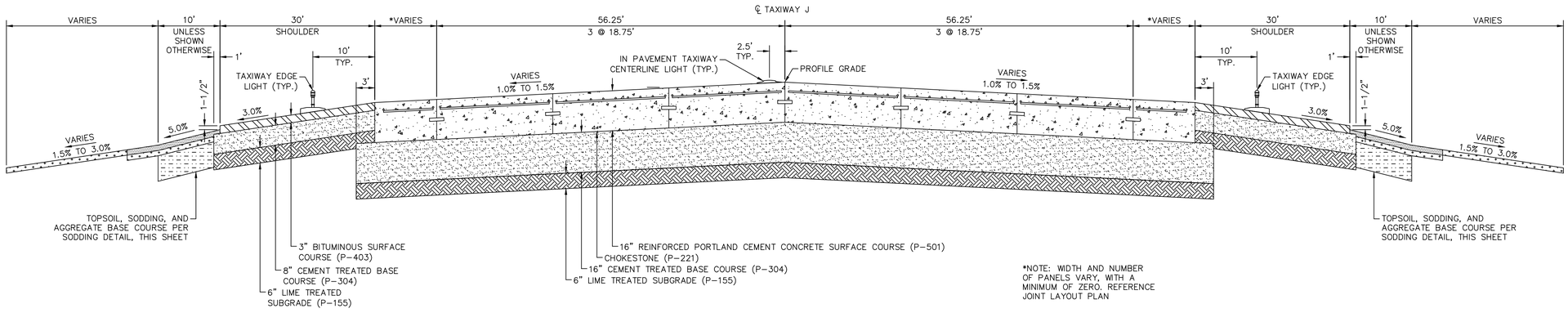
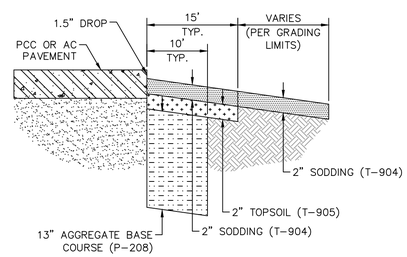


*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

A C4.2 TAXIWAY J (STA. 10+37.50 TO 11+25.00) TYPICAL SECTION
N.T.S



SODDING DETAIL
N.T.S

CITY OF SAN ANTONIO AVIATION DEPARTMENT

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TYPICAL SECTIONS

C4.2

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