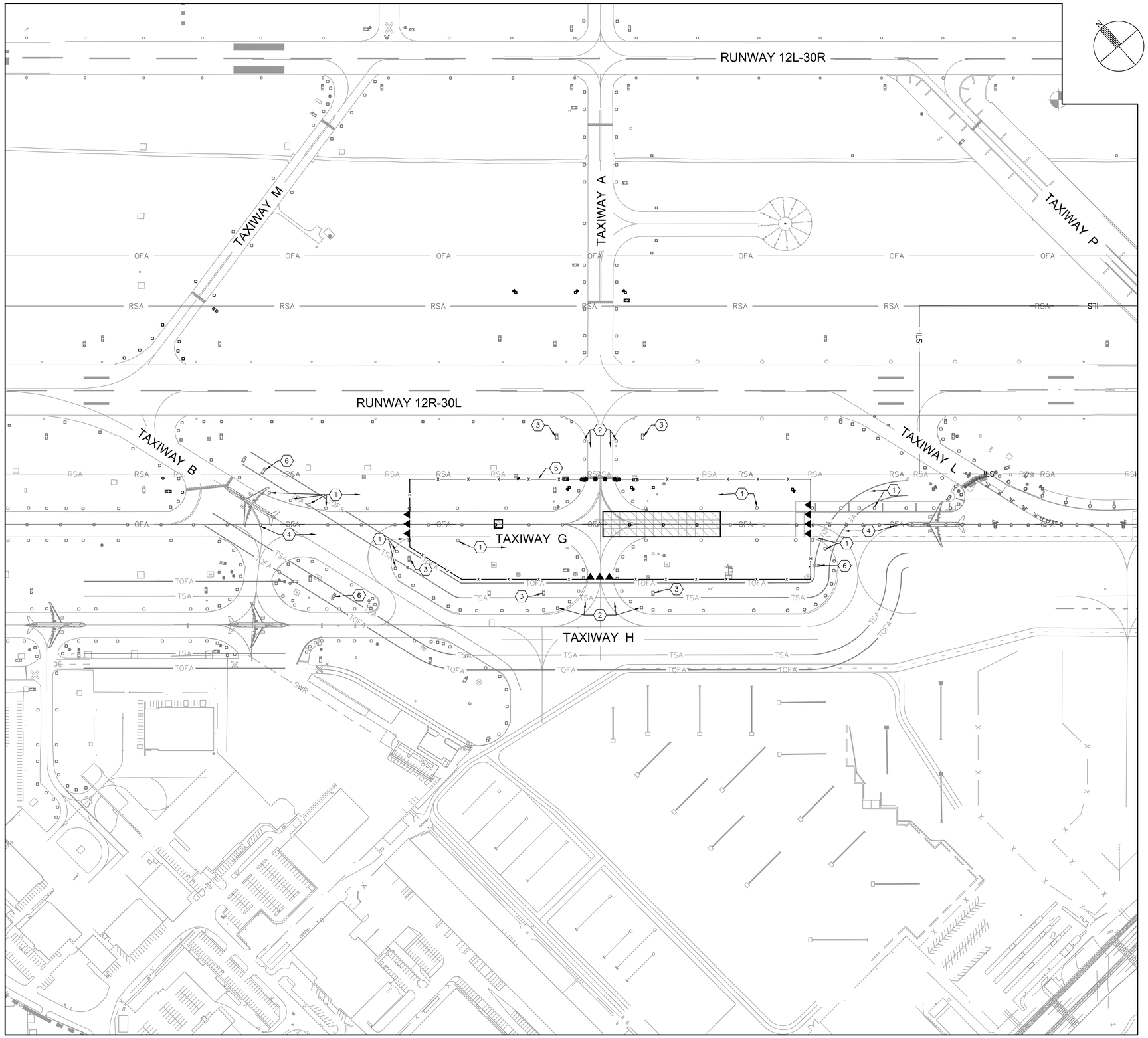


LEGEND

- ●●●●● LOW LEVEL BARRICADES, SEE CIVIL DRAWINGS
- ▲▲▲▲▲ LINKED LOW LEVEL BARRICADES, SEE CIVIL DRAWINGS
- —TSA— TAXIWAY SAFETY AREA
- —TOFA— TAXIWAY OBJECT FREE AREA
- —x— ORANGE SAFETY FENCE, SEE CIVIL DRAWINGS
- TAXIING AIRCRAFT
- PACKAGE 4 – ALTERNATE 2

GENERAL NOTES:

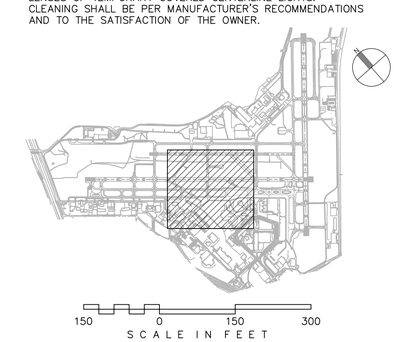
1. TEMPORARY CIRCUITS ARE TO BE INSTALLED AS NECESSARY TO MAINTAIN THE OPEN PORTIONS OF THE AIRFIELD.
2. SEE CIRCUIT MAPS ON E4 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR IS TO COORDINATE ALL POWER OR LIGHTING OUTAGES WITH SAT OPERATIONS PRIOR TO ANY WORK.
4. SEE E5 SERIES FOR SIGNS THAT ARE TO BE COVERED DURING CONSTRUCTION.
5. COORDINATE WITH CONSTRUCTION PHASING PLANS, C2 SERIES DRAWINGS.

CONSTRUCTION NOTES:

1. COVER ELEVATED TAXIWAY EDGE LIGHTS ALONG TWY 'G' BETWEEN TWY 'B' AND TWY 'L' WITH PVC PIPE SECTIONS, SEE DETAIL ON SHEET E3.10.
2. COVER ELEVATED TAXIWAY EDGE LIGHTS ALONG TWY 'A' BETWEEN TWY 'H' AND RWY 12R–30L WITH PVC PIPE SECTIONS, SEE DETAIL ON SHEET E3.10.
3. COVER SIGNS OUTSIDE CIVIL SAFETY FENCE AND BARRICADES, SEE DETAIL ON SHEET E3.1.
4. COVER LENSES OF CENTERLINE LIGHTS ON TWY 'G' FROM CENTER OF TWY 'B' TO TWY 'L'. SEE LENS COVER NOTES ON THIS SHEET.
5. COVER ALL SIGNS INSIDE CIVIL SAFETY FENCE AND BARRICADES, SEE DETAIL ON SHEET E3.1.
6. PARTIALLY COVER SIGNS OUTSIDE CIVIL BARRICADES PER DETAIL ON SHEET E3.1.

LENS COVER NOTES:

1. COVER LENS WITH MATTE FINISH, VINYL COATED, NO–RESIDUE GAFFER'S TAPE, COLOR BLACK, 2" WIDE (3M MODEL 6910 OR EQUAL). CONTRACTOR TO SUBMIT SAMPLE OF PROPOSED TAPE FOR ENGINEER'S REVIEW.
2. LENS COVERING SHALL SEAL AROUND THE LENS AND EXTEND 2" MINIMUM BEYOND THE LENS ONTO THE FIXTURE BODY. LENS COVERING SHALL BLOCK ALL LIGHT EMANATING FROM THE FIXTURE.
3. CONTRACTOR SHALL CLEAN ANY ADHESIVE RESIDUE OFF THE LENSES OF TEMPORARY COVERED CENTERLINE LIGHTS. CLEANING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE OWNER.



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
84051
LICENSED
PROFESSIONAL ENGINEER
5/11/16

MARK	DATE	DESCRIPTION

ISSUE: ----

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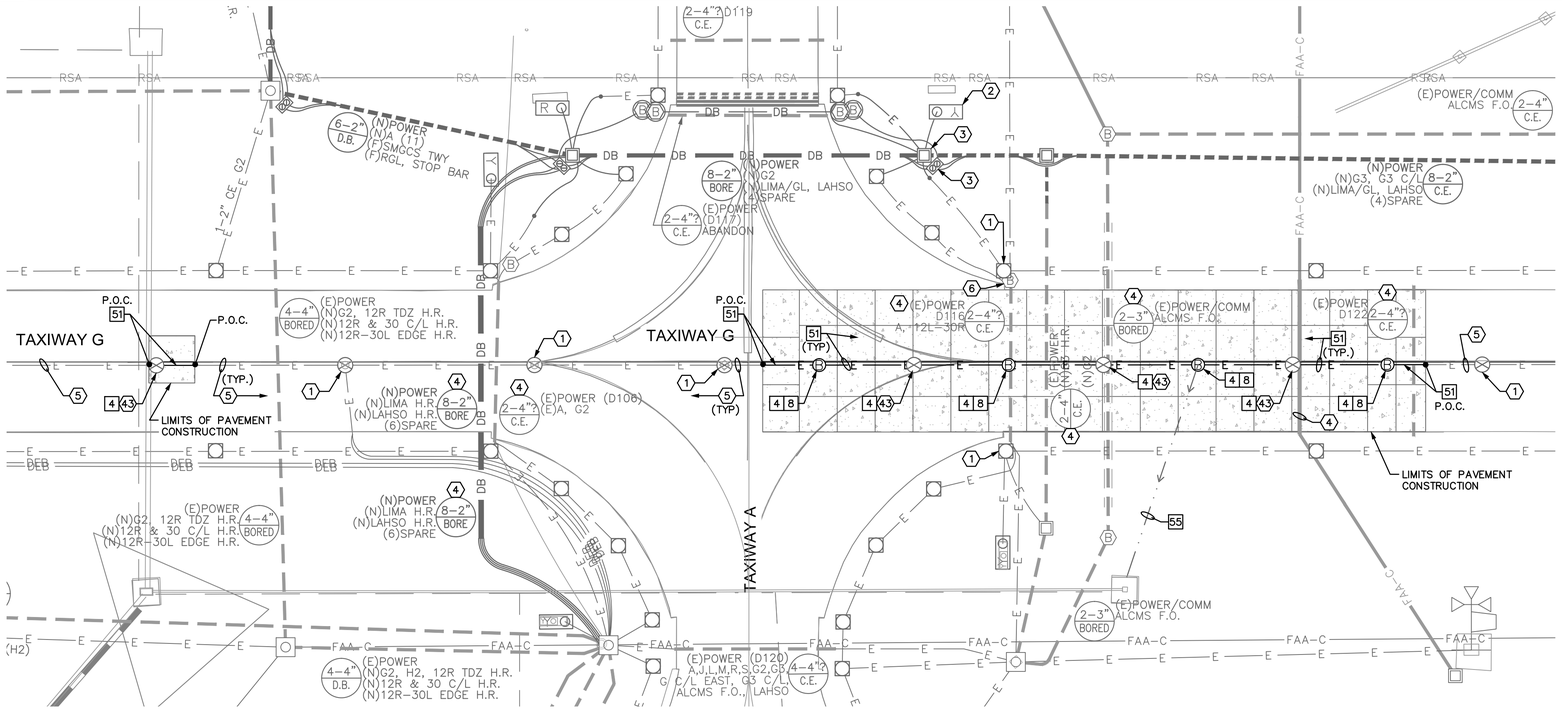
SHEET TITLE:

TEMPORARY AIRFIELD ELECTRICAL - ALTERNATE 2

E0.7

K:\REN_Aviation\191629001–SAT Rwy & Twy Improvements\05 CAD_PACKAGE 4_33–00193–R1ET–402.dwg October 28, 2015 Peterson, Cary



FIXTURE, SIGN & CIRCUIT CONSTRUCTION NOTES

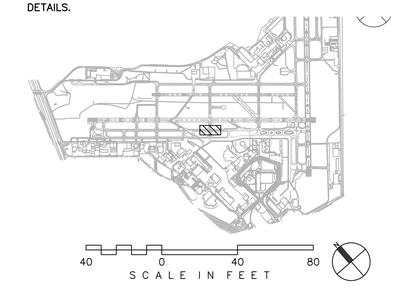
1. EXISTING LIGHT, PROTECT IN PLACE.
2. EXISTING SIGN, PROTECT IN PLACE.
3. EXISTING MANHOLE, HANDHOLE OR PULLBOX, PROTECT IN PLACE.
4. EXISTING DUCT, PROTECT IN PLACE. IF NOTED INSTALL NEW CONDUCTOR(S) AS INDICATED. SEE E4 SERIES CIRCUIT MAPS.
5. EXISTING CONDUIT, PROTECT IN PLACE. IF NOTED INSTALL NEW CONDUCTOR(S) AS INDICATED. SEE E4 SERIES CIRCUIT MAPS.
6. EXISTING BASE CAN, PROTECT IN PLACE.
43. REINSTALL SALVAGED EXISTING L-852A TAXIWAY CENTERLINE LIGHT WITH NEW L-830.

BASE CAN, FOUNDATION & CONDUIT NOTES

4. NEW L-868 BASE CAN IN NEW PCC PAVEMENT.
8. NEW 3/4" BLANK COVER ON NEW OR EXISTING L-868 BASE CAN.
51. NEW 1-2"PVC, C.E. (ITEM L-110). NEW CONDUCTORS (ITEM L-108).
55. NEW 2"C (ITEM L-110) TO DRAIN STRUCTURES. COMBINE DRAIN CONDUITS FROM SEPARATE SYSTEMS INTO COMMON TRENCH WHEN POSSIBLE. SEE DETAILS ON DRAWING E3.10.

GENERAL NOTES

1. SEE DRAWING E2.4 AND DATA TABLES FOR NEW FIXTURE, HANDHOLE, JUNCTION CAN, BASE CAN, AND SIGN FOUNDATION LOCATIONS.
2. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
3. SEE CIRCUIT MAPS E4 SERIES DRAWINGS FOR NEW OR MODIFIED CIRCUITS.
4. SEE E6 SERIES DRAWINGS FOR ELECTRICAL DEMOLITION PLANS.
5. SEE DRAWING E3.6 FOR DUCT CONFIGURATIONS AND INSTALLATION DETAILS.



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

MARK	DATE	DESCRIPTION

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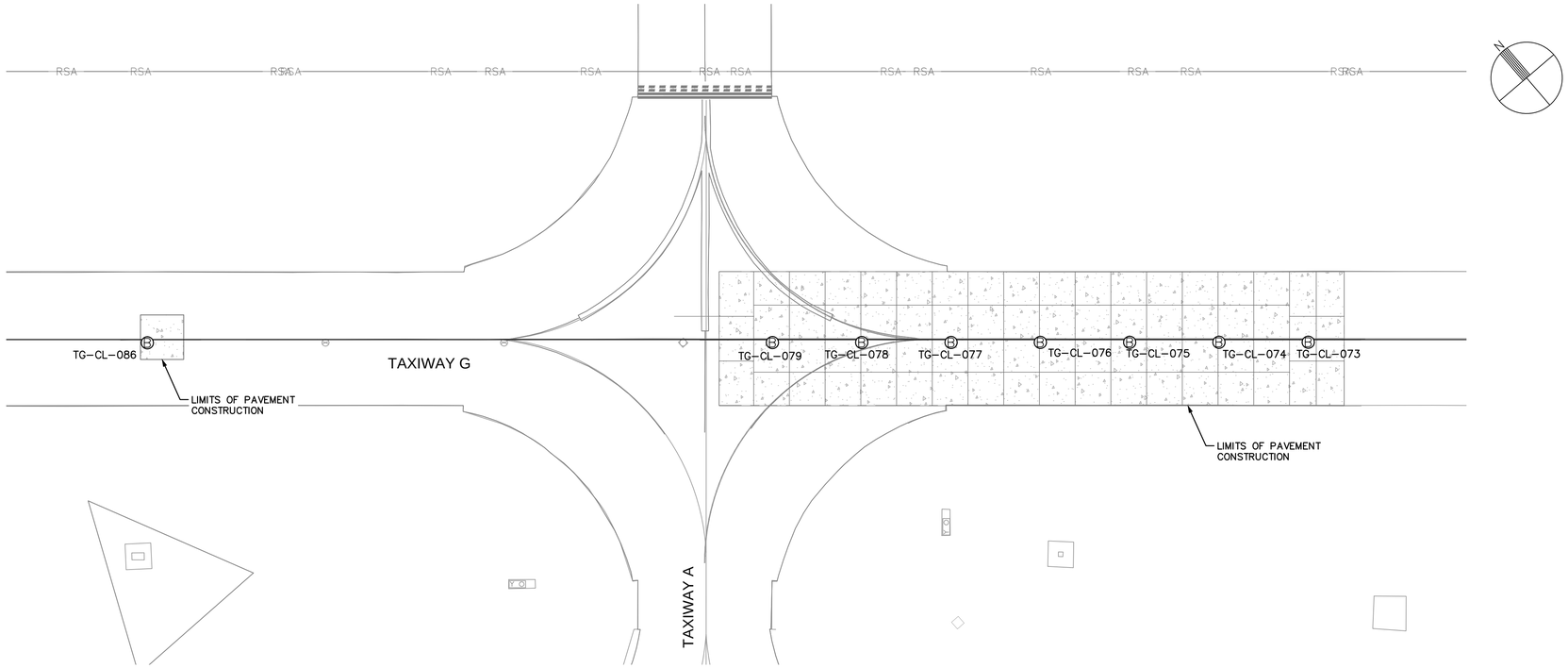
ELECTRICAL LAYOUT PLAN - ALTERNATE 2

E1.13

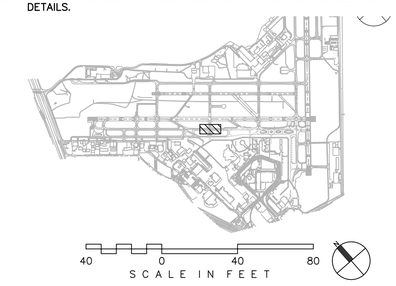
K:\REN_Aviation\191629001-SAT Rwy & Twy improvements\05 CADD_PACKAGE 4_33-00193-R1EE-101.dwg October 28, 2015 Peterson, Cary



E2.4 L-868 DATA TABLE				
FIXT-NUM	STA	OFF	DETAIL	FAA-TYPE
TG-CL-073	'Taxiway G' 259+05.49	1.47' RT.	E3.4	L-868 W/ COVER
TG-CL-074	'Taxiway G' 258+55.49	1.51' RT.	E3.4	L-868 FOR L-852A
TG-CL-075	'Taxiway G' 258+05.48	1.54' RT.	E3.4	L-868 W/ COVER
TG-CL-076	'Taxiway G' 257+55.48	1.57' RT.	E3.4	L-868 FOR L-852A
TG-CL-077	'Taxiway G' 257+05.48	1.61' RT.	E3.4	L-868 W/ COVER
TG-CL-078	'Taxiway G' 256+55.47	1.64' RT.	E3.4	L-868 FOR L-852A
TG-CL-079	'Taxiway G' 256+05.47	1.68' RT.	E3.4	L-868 W/ COVER
TG-CL-086	'Taxiway G' 252+55.45	1.82' RT.	E3.4	L-868 FOR L-852A

GENERAL NOTES

1. SEE E1 SERIES DRAWINGS FOR NEW ELECTRICAL SYSTEM LAYOUT PLANS.
2. SEE E6 SERIES DRAWINGS FOR ELECTRICAL DEMOLITION PLANS.
3. SEE DRAWING E3.6 FOR DUCT CONFIGURATIONS AND INSTALLATION DETAILS.



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

MARK	DATE	DESCRIPTION

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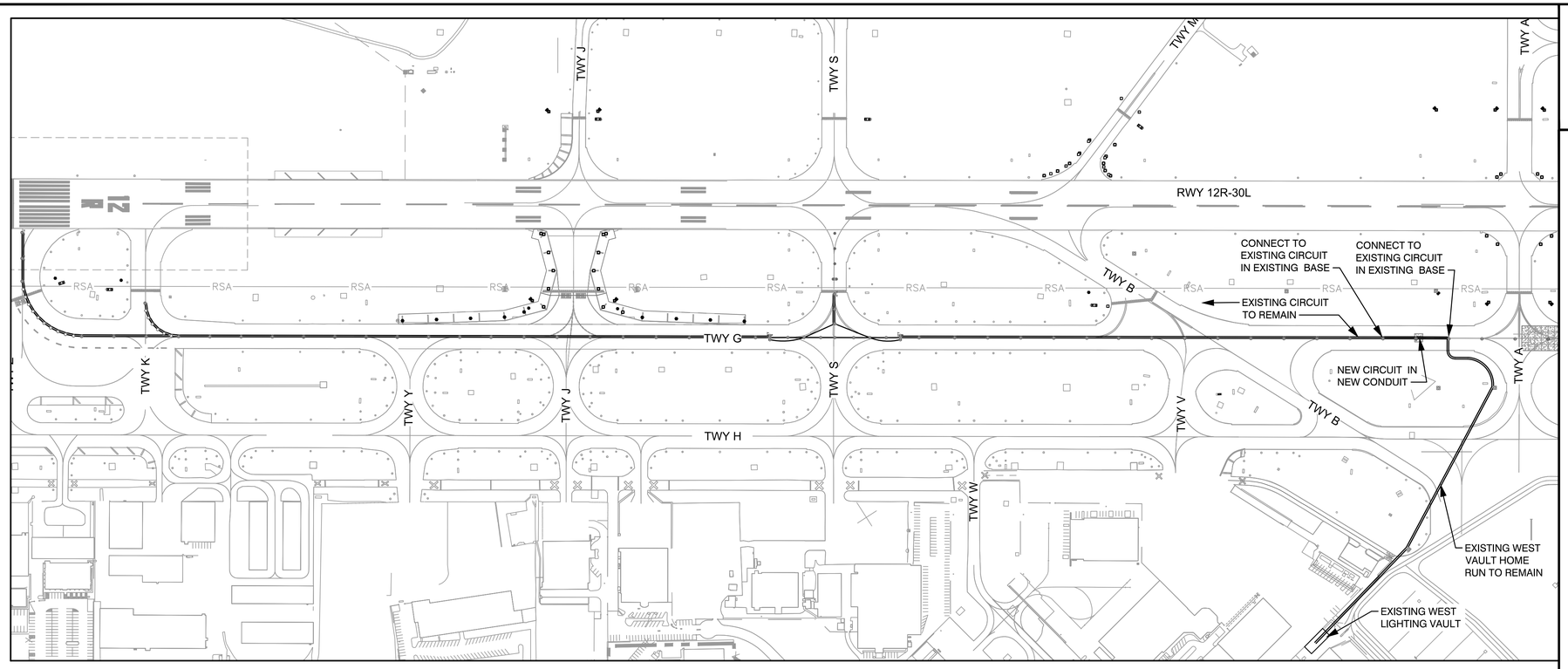
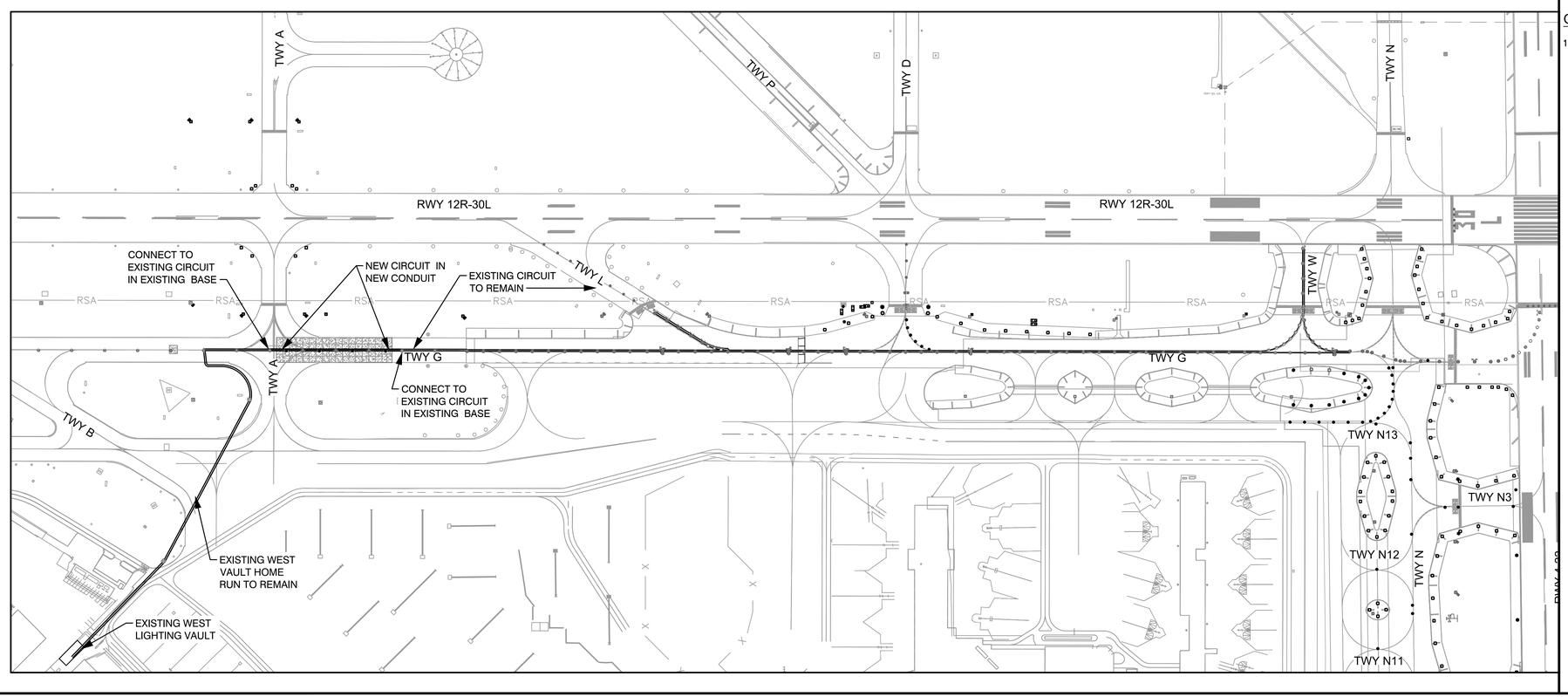
ELECTRICAL FIXTURE LAYOUT PLAN - ALTERNATE 2

E2.4

K:\REN_Aviation\191629001-SAT Rwy & Twy Improvements\05 CADD_PACKAGE 4_33-00193-R1EE-102.dwg October 28, 2015 Peterson, Cary





DATA TABLE - CIRCUIT 'T/W G CL WEST' (# 16)

QUANTITY	ITEM DESC.	FT./ITEM *		TOTAL LENGTH
58	L-852A	x 6 '	=	348'
15	L-852D	x 6 '	=	90'
		x 6 '	=	'
		x 6 '	=	'
5	L-868	x 6 '	=	30'
0	HANDHOLES	x2*12 '	=	0'
3	MANHOLES	x2*18 '	=	108'

* SLACK CABLE PER SPECS

ITEM TOTAL LENGTH = 576'
+ PLAN CIRCUIT LENGTH = 11,984'
= TOTAL CIRCUIT LENGTH = 12,560'

CIRCUIT DEFINITION

CABLE SIZE	CABLE TYPE	DESCRIPTION
#8	L-824 5kV TYPE C	AIRFIELD LIGHTING PER L-108

TOTAL CIRCUIT LENGTH INSTALLED IN ALT 2 BID 400'

GENERAL NOTES

1. ALL WORK ON THIS DRAWING IS PART OF THE ALT 2 BID.

DATA TABLE - CIRCUIT 'T/W G CL EAST' (# 15)

QUANTITY	ITEM DESC.	FT./ITEM *		TOTAL LENGTH
88	L-852A	x 6 '	=	528'
13	L-852K	x 6 '	=	78'
		x 6 '	=	'
		x 6 '	=	'
4	L-868	x 6 '	=	24'
0	HANDHOLES	x2*12 '	=	0'
3	MANHOLES	x2*18 '	=	108'

* SLACK CABLE PER SPECS

ITEM TOTAL LENGTH = 738'
+ PLAN CIRCUIT LENGTH = 10,532'
= TOTAL CIRCUIT LENGTH = 11,270'

CIRCUIT DEFINITION

CABLE SIZE	CABLE TYPE	DESCRIPTION
#8	L-824 5kV TYPE C	AIRFIELD LIGHTING PER L-108

TOTAL CIRCUIT LENGTH INSTALLED IN ALT 2 BID 900'

200 0 200 400
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
2016

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CIRCUIT MAPS TAXIWAY G CL WEST (CKT 16) & TAXIWAY G CL EAST (CKT 15) - ALTERNATE 2

E4.12

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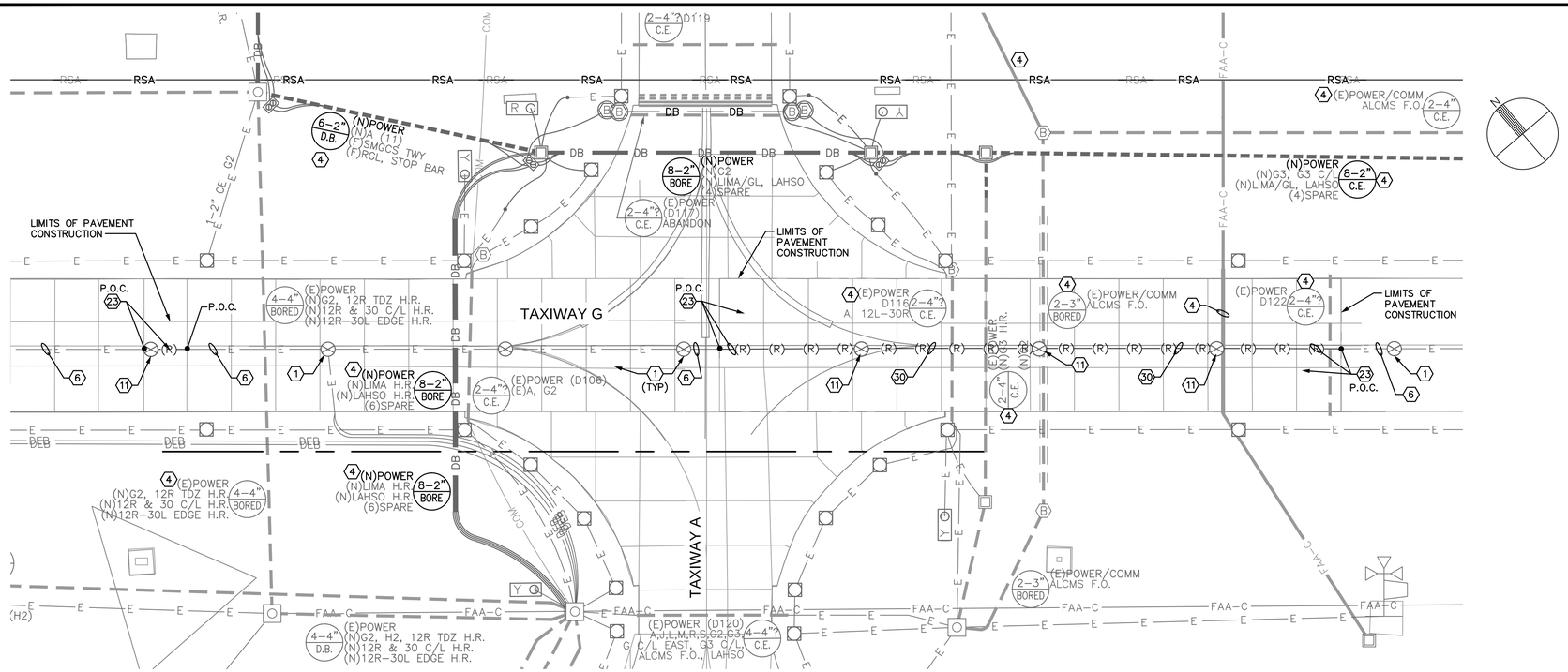
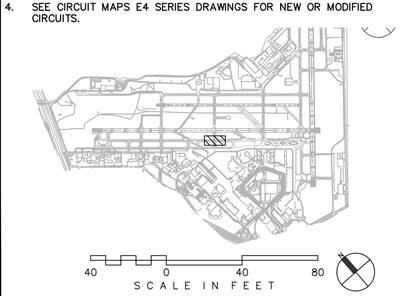


ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHT, PROTECT IN PLACE.
4. EXISTING DUCT, 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.
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.
30. REMOVE EXISTING CONDUIT. REMOVE CONDUCTORS BACK TO EXISTING STRUCTURE TO REMAIN OR AS NOTED.

GENERAL NOTES

1. SEE E0 SERIES DRAWINGS FOR TEMPORARY CIRCUITS AND FIXTURES.
2. SEE DRAWING E1.13 FOR ELECTRICAL LAYOUT PLAN.
3. SEE E2 SERIES DRAWINGS & DATA TABLES FOR NEW FIXTURE, HANDHOLE, JUNCTION CAN, BASE CAN, AND SIGN FOUNDATION LOCATIONS.
4. SEE 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
84061
LICENSED
PROFESSIONAL ENGINEER
5/17/16

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ELECTRICAL DEMOLITION PLAN - ALTERNATE 2

E6.13

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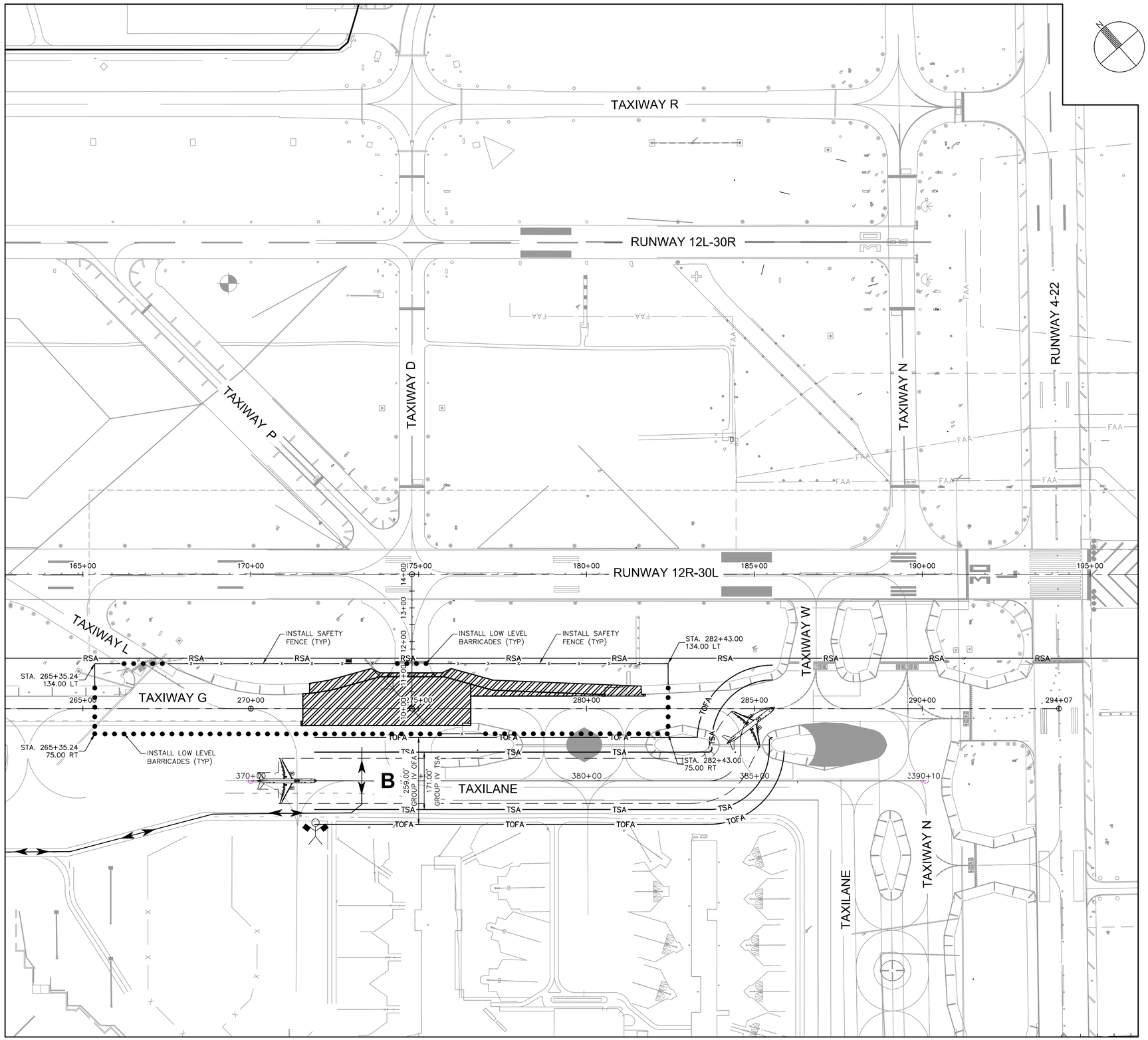


LEGEND

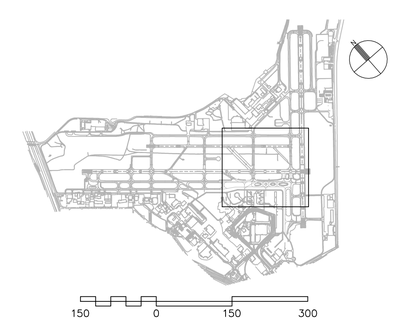
- INSTALL LOW LEVEL BARRICADES PER DETAILS ON SHEET C2.3
- INSTALL LINKED LOW LEVEL BARRICADES PER DETAILS ON SHEET C2.3
- AIRCRAFT WINGTIP
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- INSTALL ORANGE SAFETY FENCE PER DETAILS ON SHEET C2.3
- HAUL ROUTE
- TAXIING AIRCRAFT
- FLAGGER (TO 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 3 (DURATION = 85 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.



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

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OPERATIONS AND PHASING PLAN - ALTERNATE 3

C2.6

SHEET NO. 131 OF 157

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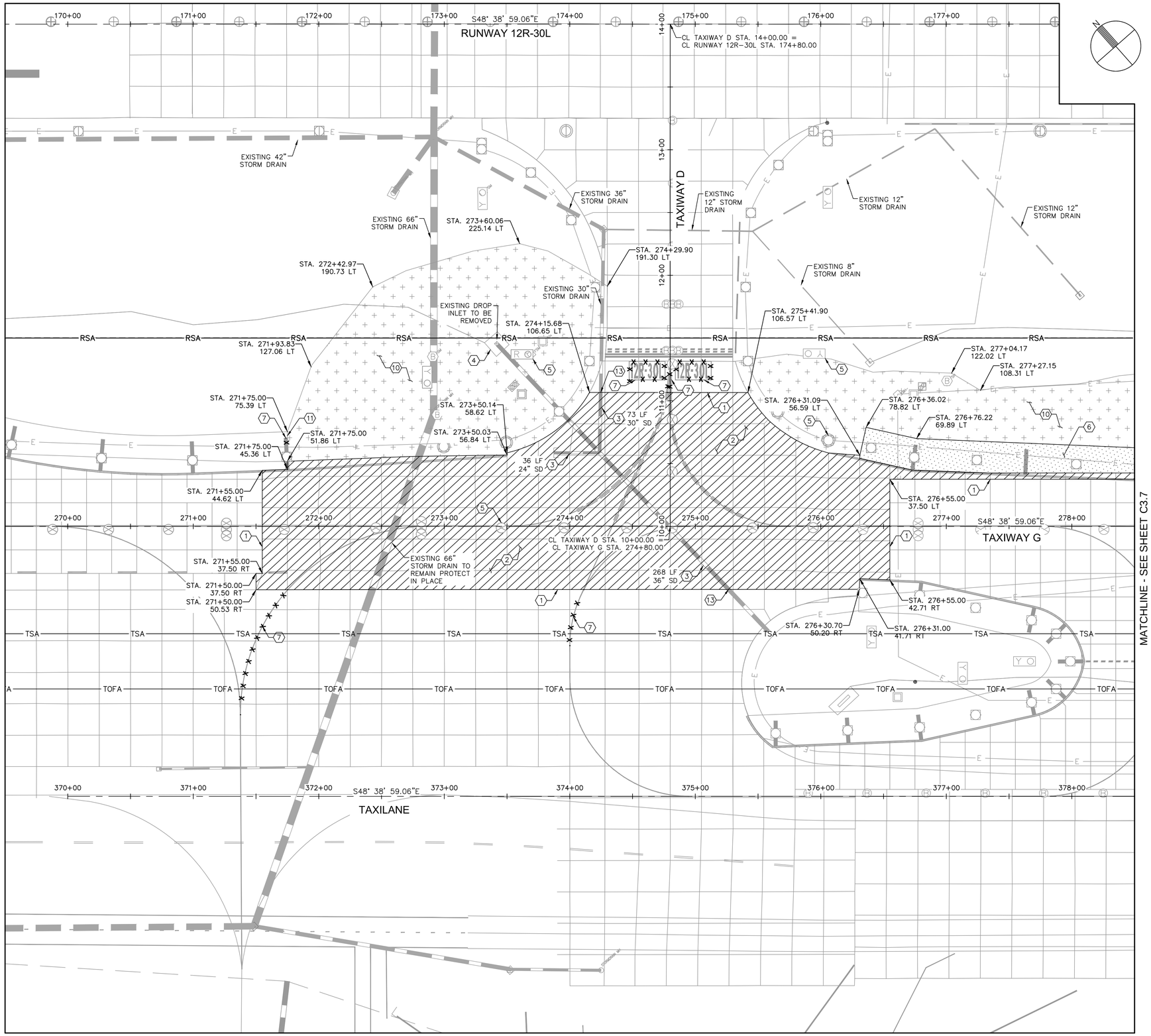


LEGEND

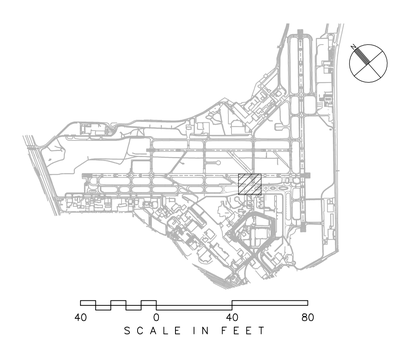
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- × × × PAVEMENT MARKING OBLITERATION

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

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SHEET TITLE:

DEMOLITION PLAN - TAXIWAY G - ALTERNATE 3

C3.6

SHEET NO. 132 OF 157

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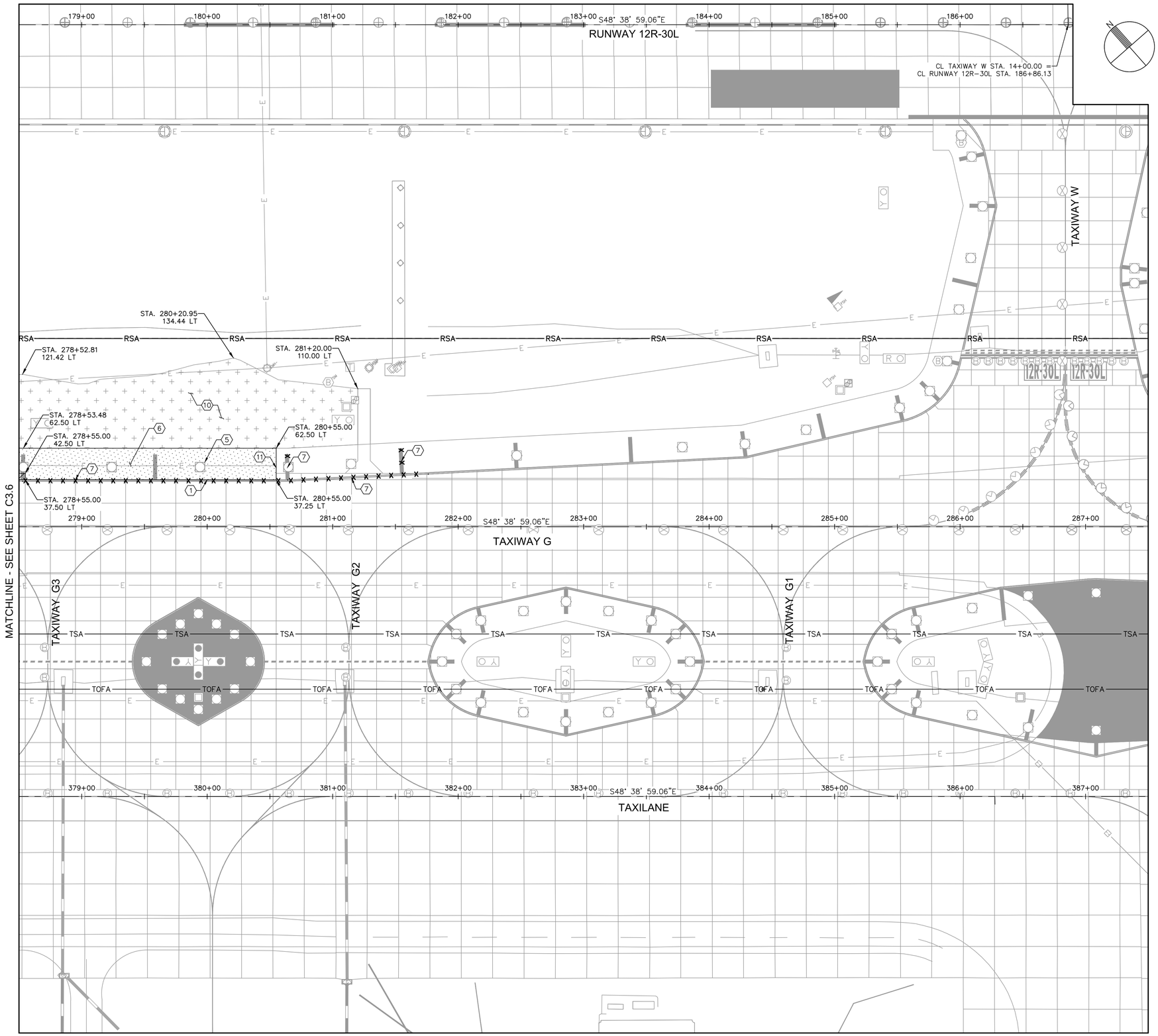


LEGEND

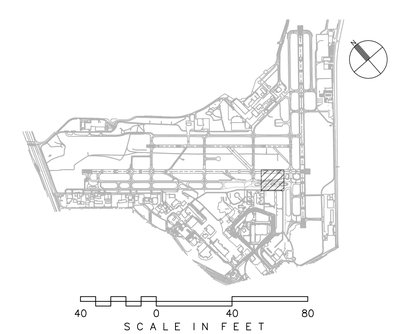
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- × × × PAVEMENT MARKING OBLITERATION

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



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:

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DEMOLITION PLAN - TAXIWAY G - ALTERNATE 3

C3.7

SHEET NO. 133 OF 157

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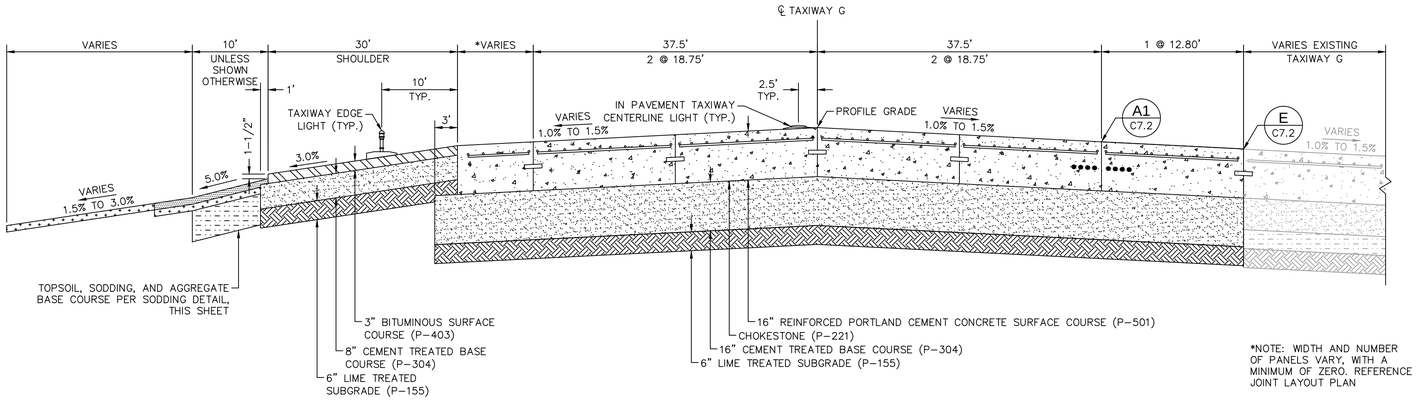
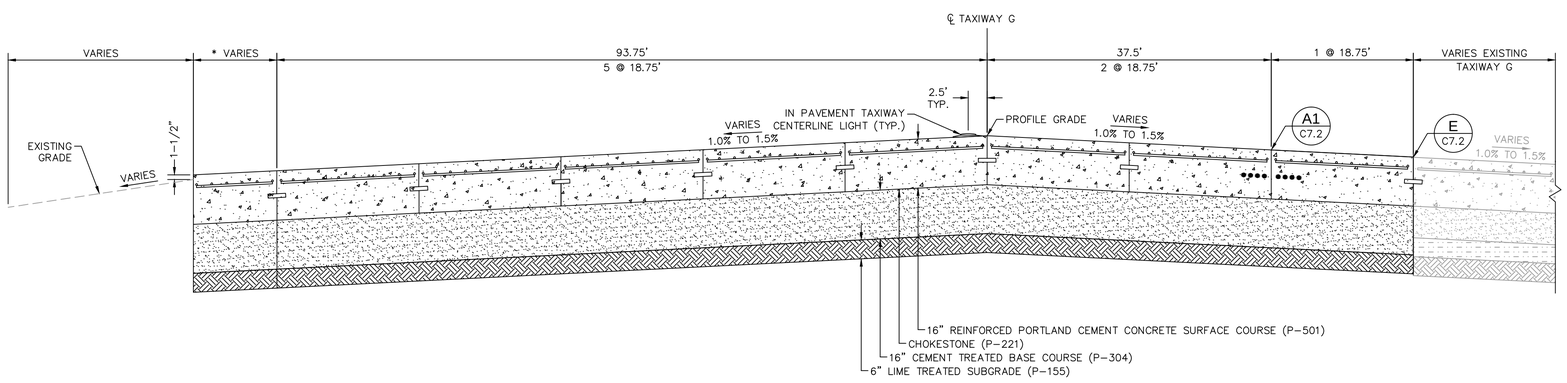


*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

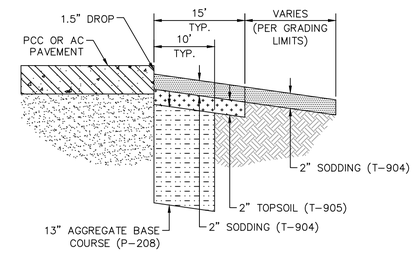
B C4.3 TAXIWAY G (STA. 271+55.00 TO 273+85.00) TYPICAL SECTION
TAXIWAY G (STA. 275+75.00 TO 276+55.00) TYPICAL SECTION
N.T.S

GENERAL NOTES

1. THE SUBGRADE IN CUT AREAS SHALL HAVE NATURAL DENSITIES SHOWN, OR
   A. SHALL BE COMPACTED FROM THE SURFACE TO ACHIEVE THE REQUIRED DENSITIES.
   B. SHALL BE REMOVED AND REPLACED IN WHICH CASE THE MINIMUM DENSITIES FOR FILLS APPLY. SEE SPECIFICATION P-152 FOR OVER-EXCAVATION REQUIREMENTS.
2. NON-COHESIVE SOILS, FOR THE PURPOSE OF DETERMINING COMPACTION, ARE THOSE WITH A P.I. < 6.



C C4.3 TAXIWAY G (STA. 273+85.00 TO 274+75.00) TYPICAL SECTION
N.T.S



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N.T.S

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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

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MICHAEL A. NORBY 67178 REGISTERED PROFESSIONAL ENGINEER
05/03/16

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TYPICAL SECTIONS

C4.4

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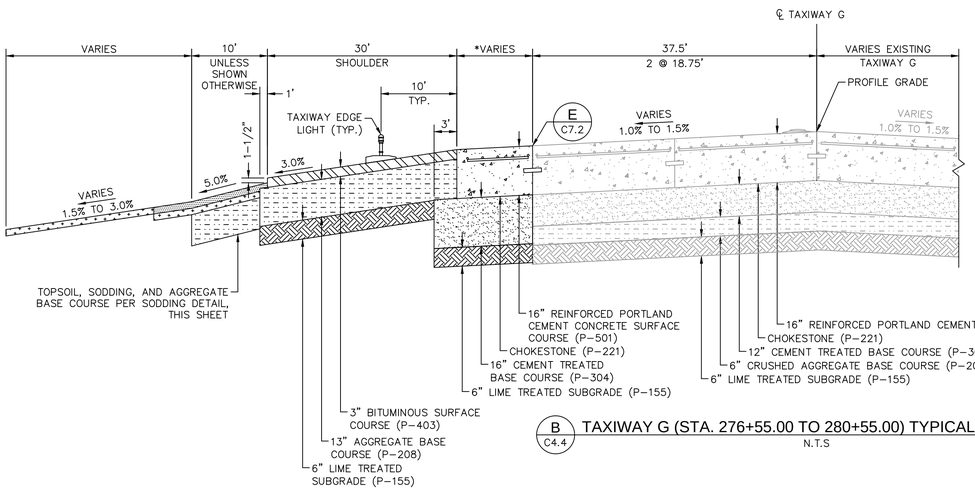


B / C4.4 TAXIWAY G (STA. 276+55.00 TO 280+55.00) TYPICAL SECTION

N.T.S

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

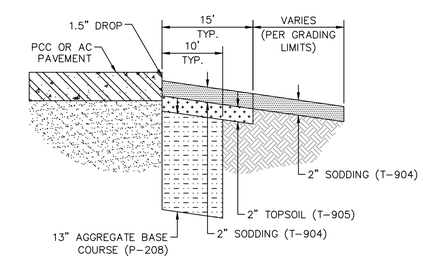
GENERAL NOTES

1. THE SUBGRADE IN CUT AREAS SHALL HAVE NATURAL DENSITIES SHOWN, OR

   A. SHALL BE COMPACTED FROM THE SURFACE TO ACHIEVE THE REQUIRED DENSITIES.

   B. SHALL BE REMOVED AND REPLACED IN WHICH CASE THE MINIMUM DENSITIES FOR FILLS APPLY. SEE SPECIFICATION P-152 FOR OVER-EXCAVATION REQUIREMENTS.

2. NON-COHESIVE SOILS, FOR THE PURPOSE OF DETERMINING COMPACTION, ARE THOSE WITH A P.I. < 6.



SODDING DETAIL

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STATE OF TEXAS
MICHAEL A. NORBY
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REGISTERED PROFESSIONAL ENGINEER
05/03/16

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TYPICAL SECTIONS

C4.5

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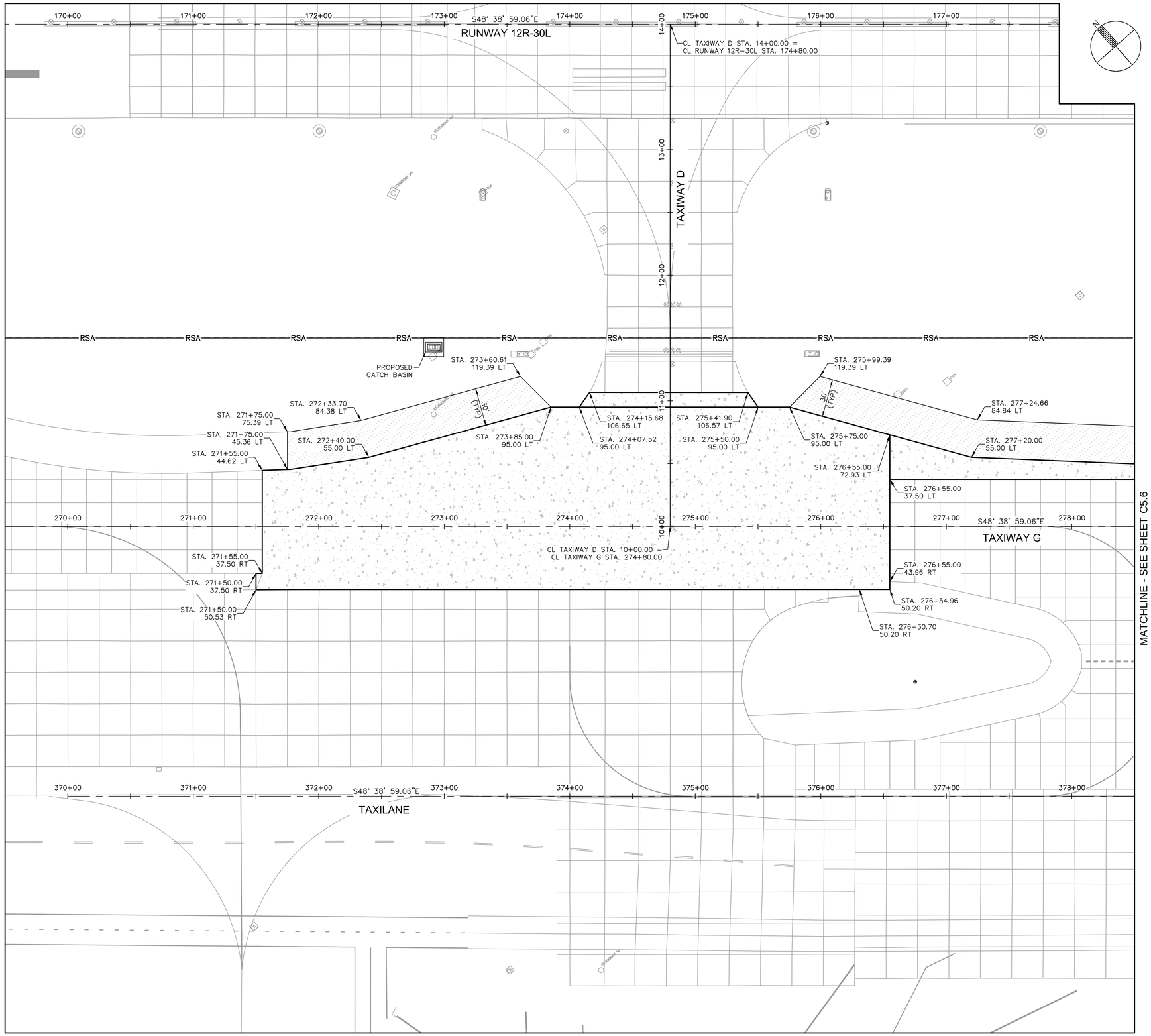
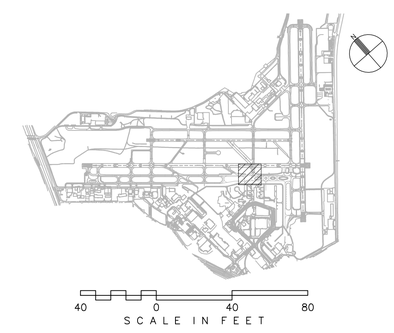


LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO SHEETS C4.1 – C4.5 FOR TYPICAL SECTIONS.



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SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
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MICHAEL A. NORBY
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REGISTERED
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05/03/16

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GEOMETRIC LAYOUT PLAN - TAXIWAY G - ALTERNATE 3

C5.5

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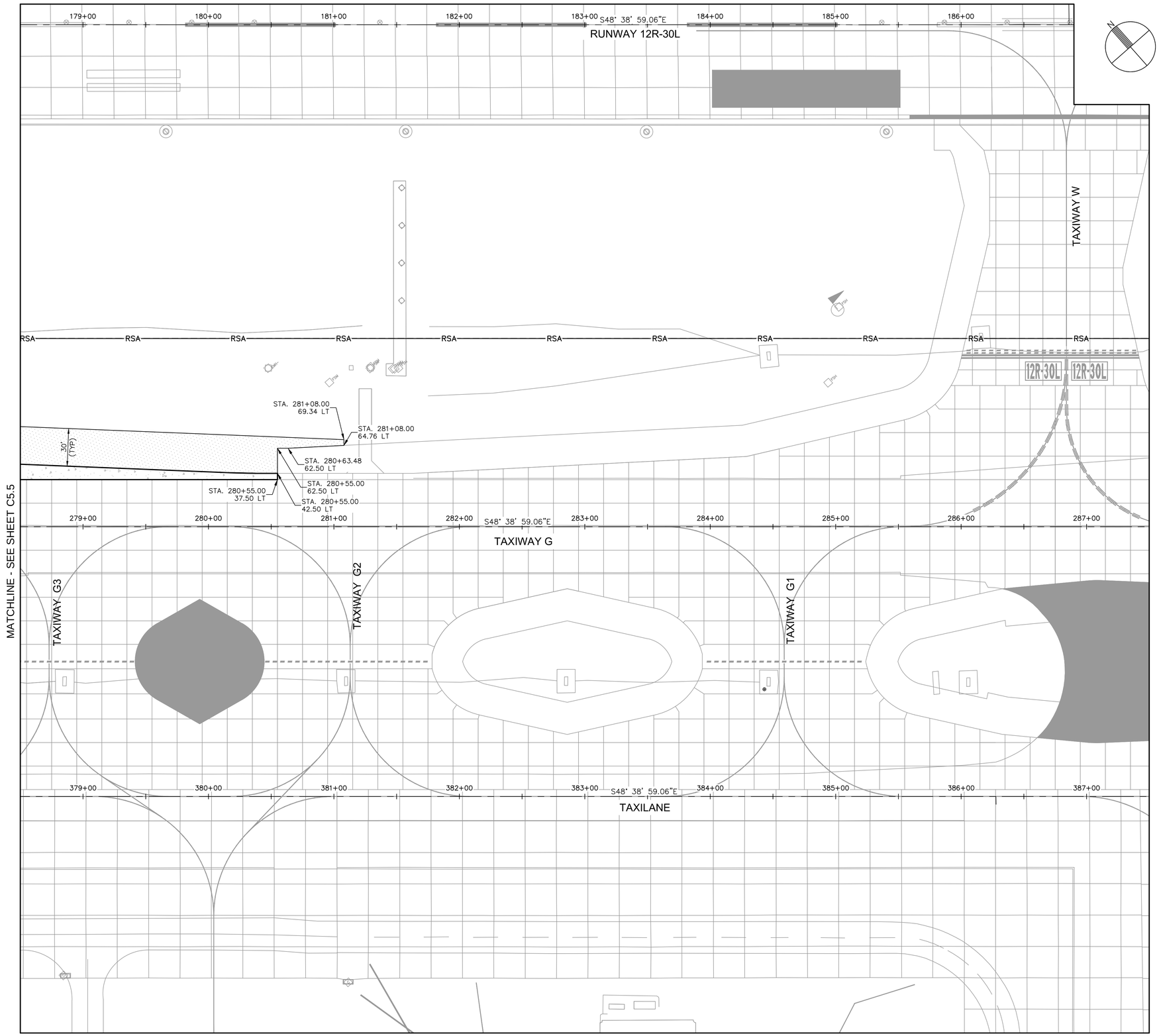
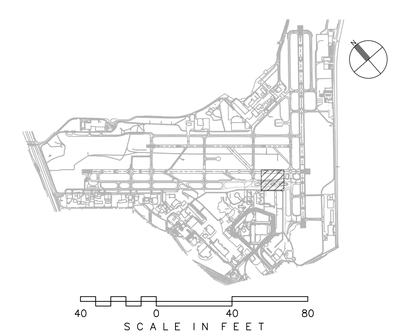


LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO SHEETS C4.1 – C4.5 FOR TYPICAL SECTIONS.



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GEOMETRIC LAYOUT PLAN - TAXIWAY G - ALTERNATE 3

C5.6

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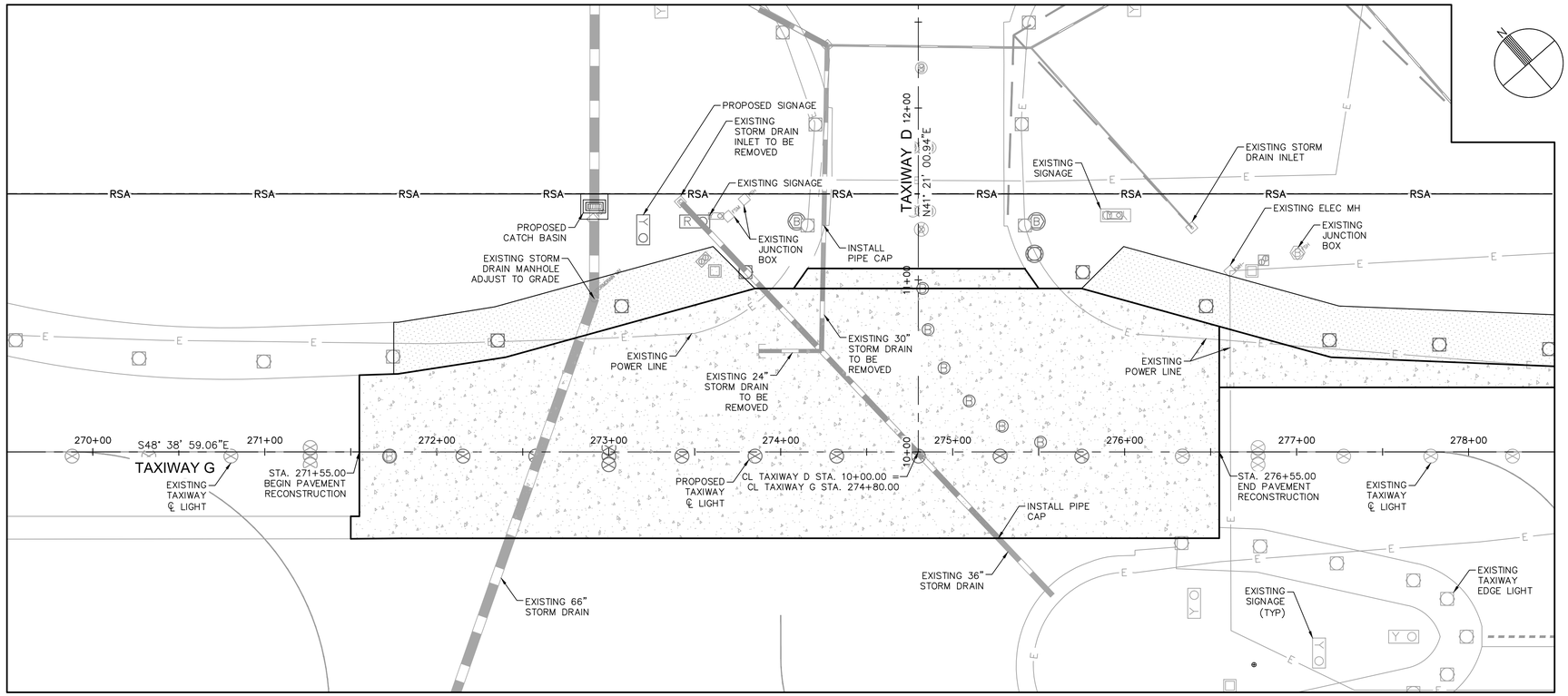

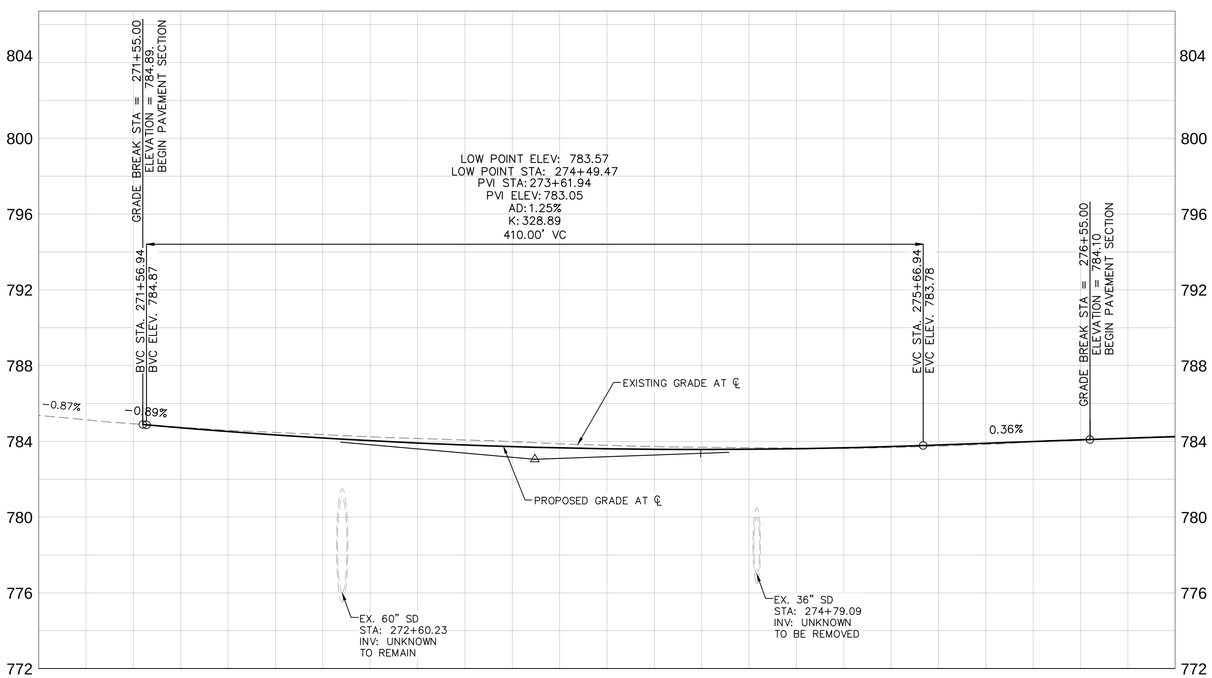

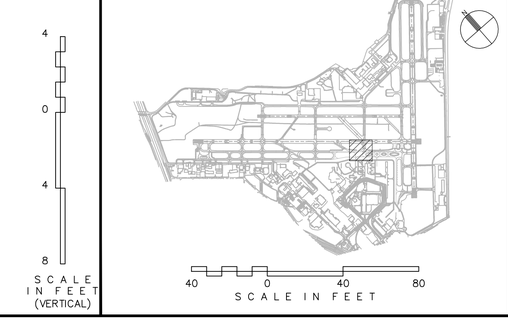

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- EXISTING STORM DRAIN (RGRCP)
- PROPOSED STORM DRAIN (RGRCP)

GENERAL NOTES

1. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO GRADING AND DRAINAGE PLANS FOR DRAINAGE INFORMATION.

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SAN ANTONIO, TEXAS 78216
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MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/03/16

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PLAN AND PROFILE - TAXIWAY G - ALTERNATE 3

C6.4

SHEET NO. 138 OF 157

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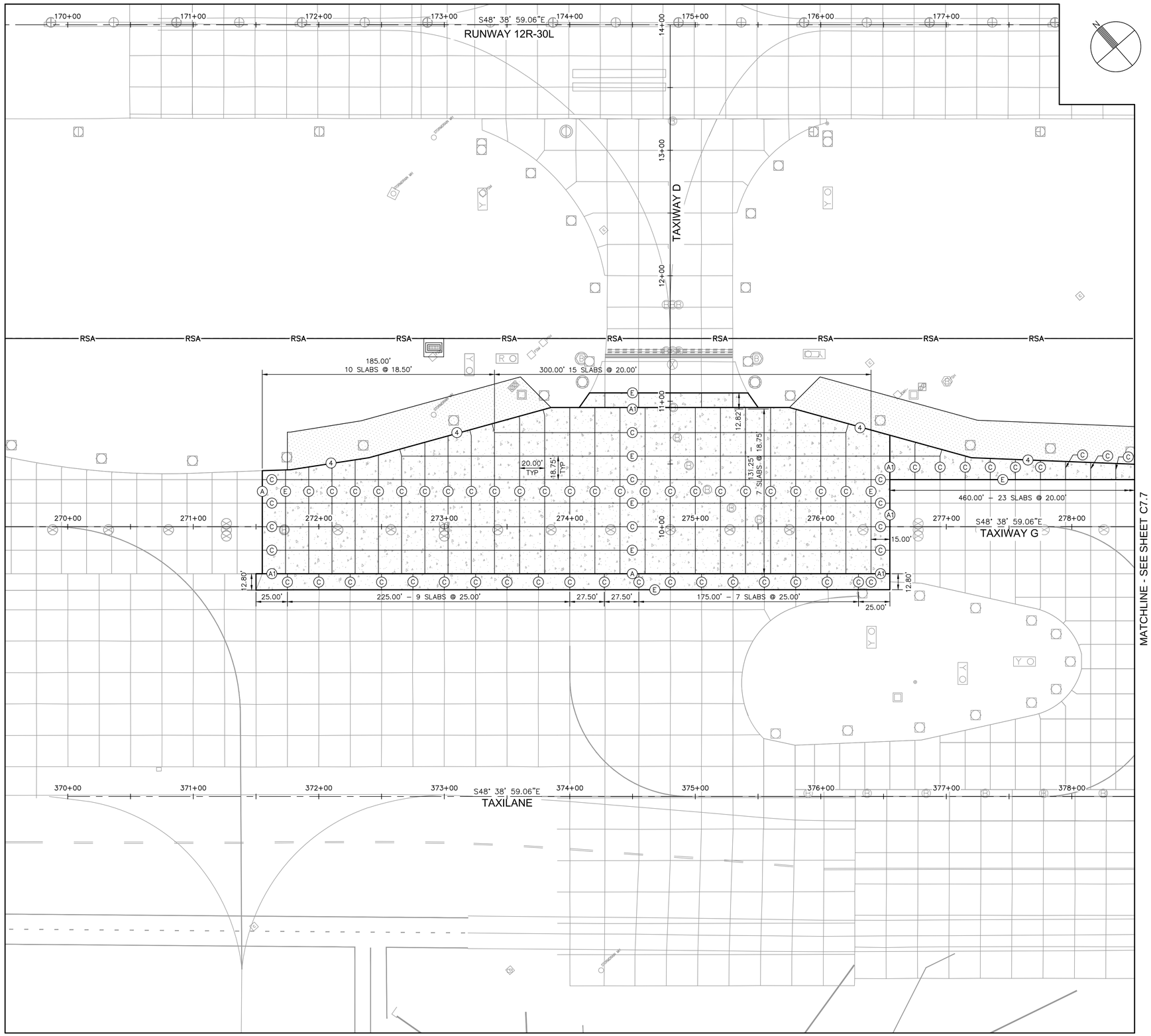


LEGEND

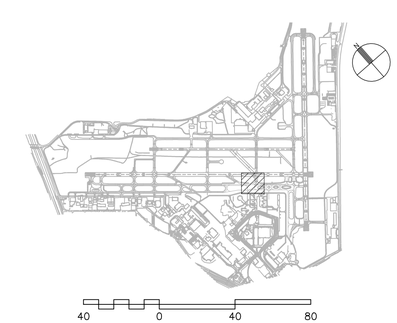
- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- (A) JOINT TYPE A, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (A1) JOINT TYPE A1, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (C) JOINT TYPE C, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (E) JOINT TYPE E, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (4) EDGE SEAL TYPE 4, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. TYPE C AND TYPE E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE ENGINEER.
3. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT VARY MORE THAN 1/2-INCH FROM THEIR DESIGNATED HORIZONTAL POSITION AND SHALL BE TRUE TO LINE WITH NOT MORE THAN 1/4-INCH VARIATION IN 10-FEET. ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR, OTHER THAN IRREGULAR SLABS, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE AIRPORT.
4. ALL SAWCUT DEBRIS FROM THE WIDENING OF THE JOINTS SHALL BE REMOVED FROM THE CONCRETE SURFACE IMMEDIATELY AFTER SAWCUTTING BY VACUUMING THE SLURRY.
5. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO-PERCENT (2%) OR 0.40" IN EACH PLANE. MISALIGNED DOWEL BARS BY MORE THAN THE SPECIFIED TOLERANCE SHALL REQUIRE THE PCCP TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE AIRPORT.
6. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR JOINTING AROUND ELEC./COMM. MANHOLES THAT ARE TO REMAIN IN PLACE.
7. ALL PCCP PANELS ARE REINFORCED PER DETAIL 6, SHEET C7.2

CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION
2. REFER TO ELECTRICAL PLANS (SERIES E)



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JOINT LAYOUT PLAN - TAXIWAY G - ALTERNATE 3

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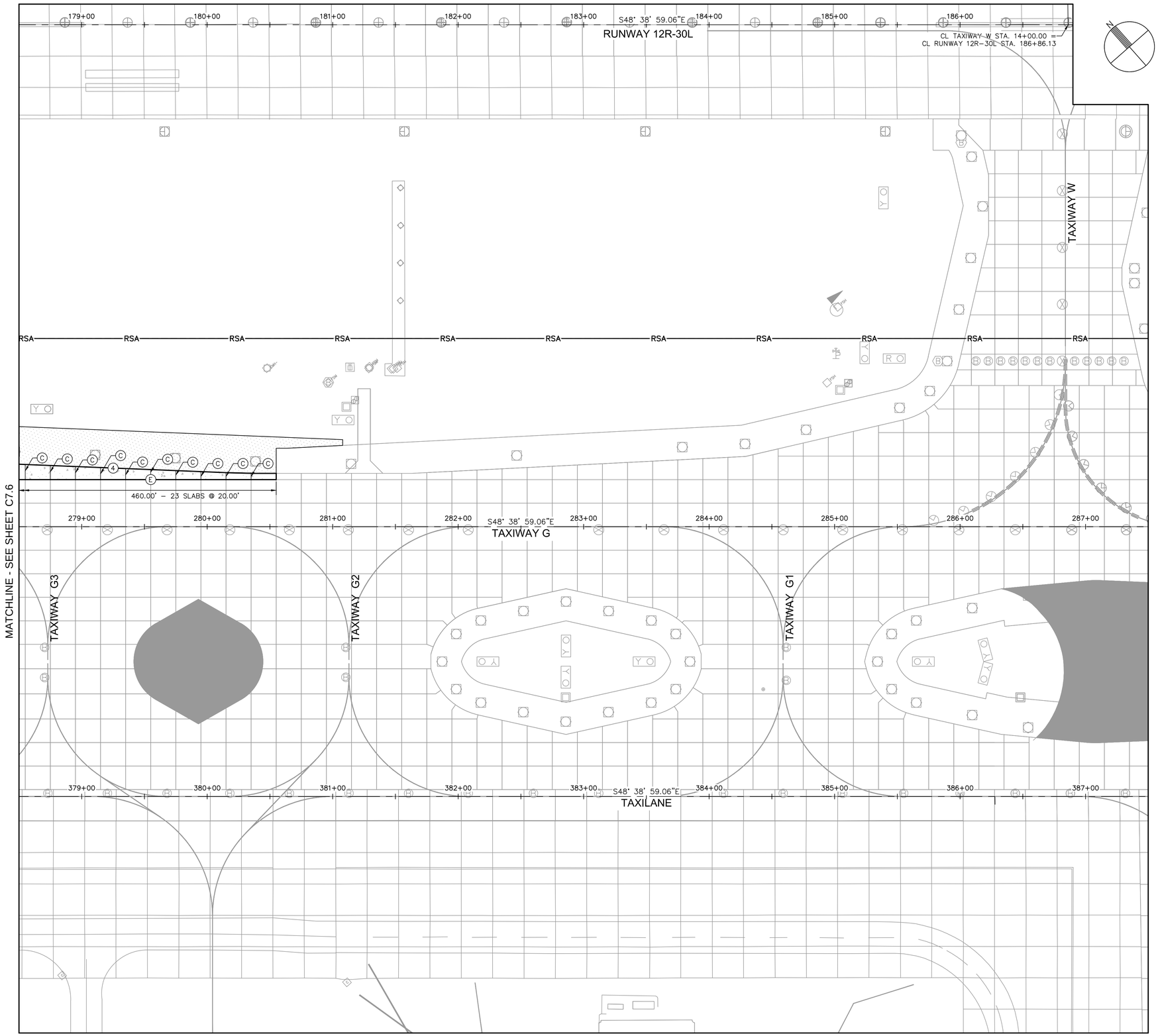

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- (A) JOINT TYPE A, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (A1) JOINT TYPE A1, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (C) JOINT TYPE C, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (E) JOINT TYPE E, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- (4) EDGE SEAL TYPE 4, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
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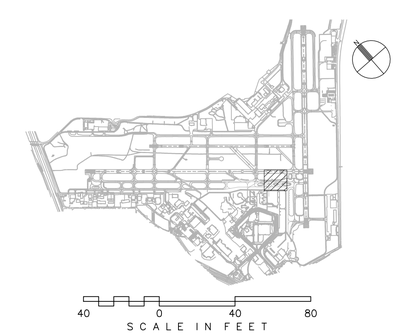
4. ALL SAWCUT DEBRIS FROM THE WIDENING OF THE JOINTS SHALL BE REMOVED FROM THE CONCRETE SURFACE IMMEDIATELY AFTER SAWCUTTING BY VACUUMING THE SLURRY.
5. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO-PERCENT (2%) OR 0.40" IN EACH PLANE. MISALIGNED DOWEL BARS BY MORE THAN THE SPECIFIED TOLERANCE SHALL REQUIRE THE PCCP TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE AIRPORT.
6. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR JOINTING AROUND ELEC./COMM. MANHOLES THAT ARE TO REMAIN IN PLACE.
7. ALL PCCP PANELS ARE REINFORCED PER DETAIL 6, SHEET C7.2

CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION
2. REFER TO ELECTRICAL PLANS (SERIES E)



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JOINT LAYOUT PLAN - TAXIWAY G - ALTERNATE 3

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