CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
DEPARTMENT OF AVIATION

PROJECT NAME: **RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)**
PROJECT NO. **33-00178 AND 33-00193**
DATE: **July 31, 2013**

ADDENDUM NO. 1

This addendum shall be included in, and be considered a part of the plans and specification for the above named project. The Contractor shall be required to sign an Acknowledgement of the receipt of this Addendum at the time he receives it. The Acknowledgement must also be submitted with the bid package.

Addendum No. 1 is issued to notify you of the revisions and/or corrections to the following items that were posted on the CoSA website and/or included in the hard copy of the bid packages.

I. Remove the '025 Unit Pricing Form' in its entirety and replace with the attached '025 Unit Pricing Form', Addendum No. 1.

II. Item P-155 Lime Treated Subgrade, Section 155-8.2, remove this paragraph and replace with the following:
Payment shall be made at the contract unit price per ton of lime. This price shall be full compensation for furnishing this material; for all delivery, placing and incorporation of this material; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:
Item P-155-8.1 Lime - Treated Subgrade (6" Depth)-per square yard
Item P-155-8.2 Lime - per ton

III. Item P-209 Crushed Aggregate Base Course, Section 209-5.1 Payment, replace the second pay item with the following pay item:
Item P-209-5.2 Crushed Aggregate Base Course (10" Depth)--per square yard

IV. Item P-620 Runway and Taxiway Painting, Section 620-5.2 Payment, remove pay item P-620-5.7 and replace with the following pay item:
Item P-620-5.7 Pavement Marking Obliteration- per square foot

V. Item D-751 Manholes, Catch Basin, Inlets and Inspection Holes, Section 751-5.1 Payment, add the following pay item:
Item D-751-5.4 Double Catch Basin – per each

STATE OF TEXAS
MICHAEL A. NORBY
87178
REGISTERED
PROFESSIONAL ENGINEER
8-2-13

VI. Item T-901 Seeding, Section 901-2.1 Seed, Annual Rye Grass Seed Rate of Application, Remove 20 lb/1,000 SF, Replace with 10 lb/1,000 SF.

VII. Item L-867/868 Light Base and Transformer Housing:

1) Remove Bid Items L-867/868-6.3, L-867/868-6.3 and L-867/868-6.3 and replace with the following:

Item L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)" – per Each
Item L-867/868-6.4	Size "B" L-868 Base Can – "Core Drill New PCCP" Installation at Joint or Sawcut – per Each
Item L-867/868-6.5	Size "B" L-868 Base Can – "Diamond Leave-out" Installation at Joint or Sawcut Intersection – per Each

VIII. Item 101, Preparing Right-Of-Way, Remove Section 101.6 Payment and replace with the following: :

"This item will be paid for at the contract lump sum price bid for "Preparing Right- of-Way," which price shall be full compensation for work herein specified, including the furnishing of all materials, equipment, Field Office/Shed, tools, labor, and incidentals necessary to complete the work. An individual lump sum price will be for the base bid and each alternate bid awarded."

IX. Drawings:

Remove the following plan sheet and replace with the attached sheets.

1) Sheet 6; Drawing C1.6: SUMMARY OF QUANTITIES
2) Sheet 7; Drawing C1.7: SUMMARY OF QUANTITIES
3) Sheet 8; Drawing C1.8: SUMMARY OF QUANTITIES
4) Sheet 25; Drawing C4.1: TYPICAL SECTIONS
5) Sheet 26; Drawing C4.2: TYPICAL SECTIONS
6) Sheet 27; Drawing C4.3: TYPICAL SECTIONS
7) BASE BID: Sheet 40; Drawing C9.3: STORM DRAIN PROFILES
8) BID ALT. 1: Sheet 98; Drawing C7.5: PAVEMENT JOINT LAYOUT PLAN
9) BID ALT. 2: Sheet 123; Drawing C3.6: DEMOLITION PLAN
10) BID ALT. 2: Sheet 127; Drawing C7.6:PAVEMENT JOINT LAYOUT PLAN
11) BID ALT. 2: Sheet 130; Drawing C12.8: PAVEMENT MARKING PLAN
12) BID ALT. 3: Sheet 144; Drawing C3.7: DEMOLITION PLAN
13) BID ALT. 3: Sheet 145; Drawing C5.6: GEOMETRIC LAYOUT PLAN

14) BID ALT. 3: Sheet 148; Drawing C7.7: PAVEMENT JOINT LAYOUT LAN
15) BID ALT. 3: Sheet 150; Drawing C9.12: GRADING AND DRAINAGE PLAN
16) BID ALT. 3: Sheet 151; Drawing C12.9: PAVEMENT MARKING PLAN
17) BID ALT. 4: Sheet 166; Drawing C3.8: DEMOLITION PLAN
18) BID ALT. 4: Sheet 173; Drawing C12.10: PAVEMENT MARKING PLAN
19) BID ALT. 4: Sheet 182; Drawing E4.6: CIRCUIT MAPS T/W EDGE G3 (CKT 6)
20) BID ALT. 5: Sheet 187; Drawing C3.9: DEMOLITION PLAN
21) BID ALT. 5: Sheet 188; Drawing C3.10: DEMOLITION PLAN
22) BID ALT. 5: Sheet 192; Drawing C7.9: PAVEMENT JOINT LAYOUT PLAN
23) BID ALT. 5: Sheet 198; Drawing C12.12: PAVEMENT MARKING PLAN

Revised Note 8. (below) was added to Sheets C13.2-C13.3, and C13.5-C13.11

8. Inlet protection to be placed on existing storm drain inlets initially and removed upon demolition of existing storm drain system. Inlet protection shall be placed on proposed storm drain inlets upon their construction

X. Construction Safety and Phasing Report:

Page 22 – Number 7, The statement Contractor personnel who operate vehicles in the AOA shall comply with the owner's rules and regulations, should replace the word owner's to airports to avoid confusion.

Page 26 – Wildlife Management, Number 3, please add dogs and coyotes to the sentence following deer.

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)
PROJECT NO. 33-00178 AND 33-00193
DATE: July 31, 2013

ADDENDUM NO. 1

List of Attachments

1) Addendum Number One (1) Acknowledgement Form
2) '025 Unit Pricing **Form'**
3) Pre-Meeting Minutes held on 7/31/2013 (including responses to contractor questions and Sign-In sheet).
4) Revised and Reissued Plan sheet drawings:
   a) Sheet 6; Drawing C1.6: SUMMARY OF QUANTITIES
   b) Sheet 7; Drawing C1.7: SUMMARY OF QUANTITIES
   c) Sheet 8; Drawing C1.8: SUMMARY OF QUANTITIES
   d) Sheet 25; Drawing C4.1: TYPICAL SECTIONS
   e) Sheet 26; Drawing C4.2: TYPICAL SECTIONS
   f) Sheet 27; Drawing C4.3: TYPICAL SECTIONS
   g) BASE BID: Sheet 40; Drawing C9.3: STORM DRAIN PROFILES
   h) BID ALT. 1: Sheet 98; Drawing C7.5: PAVEMENT JOINT LAYOUT PLAN
   i) BID ALT. 2: Sheet 123; Drawing C3.6: DEMOLITION PLAN
   j) BID ALT. 2: Sheet 127; Drawing C7.6:PAVEMENT JOINT LAYOUT PLAN
   k) BID ALT. 2: Sheet 130; Drawing C12.8: PAVEMENT MARKING PLAN
   l) BID ALT. 3: Sheet 144; Drawing C3.7: DEMOLITION PLAN
   m) BID ALT. 3: Sheet 145; Drawing C5.6: GEOMETRIC LAYOUT PLAN
   n) BID ALT. 3: Sheet 148; Drawing C7.7: PAVEMENT JOINT LAYOUT LAN
   o) BID ALT. 3: Sheet 150; Drawing C9.12: GRADING AND DRAINAGE PLAN
   p) BID ALT. 3: Sheet 151; Drawing C12.9: PAVEMENT MARKING PLAN
   q) BID ALT. 4: Sheet 166; Drawing C3.8: DEMOLITION PLAN
   r) BID ALT. 4: Sheet 173; Drawing C12.10: PAVEMENT MARKING PLAN
   s) BID ALT. 4: Sheet 182; Drawing E4.6: CIRCUIT MAPS T/W EDGE G3 (CKT 6)
   t) BID ALT. 5: Sheet 187; Drawing C3.9: DEMOLITION PLAN
   u) BID ALT. 5: Sheet 188; Drawing C3.10: DEMOLITION PLAN
   v) BID ALT. 5: Sheet 192; Drawing C7.9: PAVEMENT JOINT LAYOUT PLAN
   w) BID ALT. 5: Sheet 198; Drawing C12.12: PAVEMENT MARKING PLAN
5) Badging Disqualifying Criminal Offenses

END OF ADDENDUM NO. 1

CITY OF SAN ANTONIO

Receipt of Addendum Number One (1) is hereby acknowledged for plans and specifications for construction of Runway 12R-30L Rehabilitation and Terminal Area Taxiway Improvements (Package 1) for which bids will be opened on Tuesday, August 20, 2013.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

COMPANY NAME: _____

ADDRESS: _____

CITY/STATE/ZIP _____

DATE: _____

SIGNATURE: _____

PRINT NAME/TITLE: _____

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) BASE BID

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	8,010		$ -	
7	P-101-5.3	Cement-Treated Base Removal	SY	8,130		$ -	
8	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	1,290		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	2.75		$ -	
10	P-151-4.2	Remove Existing Strom Drain Pipe	LF	353		$ -	
11	P-151-4.3	Remove Existing Catch Basin or Manhole	EA	3		$ -	
12	P-152-4.1	Unclassified Excavation	CY	8,220		$ -	
13	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	10,290		$ -	
14	P-155-8.2	Lime	TON	130		$ -	
15	540	Storm Water Pollution Prevention Plan	LS	1		$ -	
16	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	4,670		$ -	
17	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	9,140		$ -	
18	P-304-8.1	Cement-Treated Base Course, 10" Depth	SY	2,330		$ -	
19	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	9,100		$ -	
20	P-403-8.1a	Plant Mix Bituminous Pavements (3" Shoulder Surface Course)	TON	200		$ -	
21	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	11,120		$ -	
22	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	8,780		$ -	
23	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	260		$ -	
24	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	LF	460		$ -	
25	P-620-5.2	Reflective White Runway Pavement Markings, Waterborne	SF	31,690		$ -	
26	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	3,250		$ -	
27	P-620-5.7	Pavement Marking Obliteration	SF	5,650		$ -	
28	P-621-4.1	Concrete Pavement Saw Cut Grooving (Runway)	SY	7,060		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) BASE BID

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
29	T-901-5.1	Hydro-Mulch Seeding	AC	2.30		$ -	
30	T-904-5.1	Sodding	SY	1,912.00		$ -	
31	T-905-5.1	Topsoiling	CY	726		$ -	
32	D-701-5.2	30" RGRCP, Class V	LF	412		$ -	
33	D-705-5.1	Runway Edge Drain System	LS	1		$ -	
34	D-751-5.2	Catch Basins	EA	1		$ -	
35	D-751-5.3	Double Catch Basins	EA	1		$ -	
36	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	
37	L-100-5.1	ALCMS Modifications (Allowance)	LS	1		$ -	
38	L-100-5.2	Windcone Relocation	LS	1		$ -	
39	L-100-5.3	Electrical Demolition	LS	0.20		$ -	
40	L-100a-3.1	Photometric Testing	LS	1		$ -	
41	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	10,400		$ -	
42	L-108-5.2	L-824, Type C, 1/C #6, 5 kV Cable	LF	9,100		$ -	
43	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	6,000		$ -	
44	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	2,350		$ -	
45	L-110-5.2	Multiple-way (8) 2-inch Conduits, Direct Buried	LF	980		$ -	
46	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	2,390		$ -	
47	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	LF	10		$ -	
48	L-110-5.5	Multiple-way (8) 2-inch Conduits, Concrete Encased	LF	250		$ -	
49	L115-5.1	New Concrete Handhole, Type II, Furnished & Installed	EA	3		$ -	
50	L115-5.2	Two-Can Junction Can Plaza, Furnished & Installed	EA	3		$ -	
51	L-850-4.1	Salvage and Reinstall In-pavement L-850A Runway Centerline Light with New Isolation Transformers on New or Existing Base	EA	21		$ -	
52	L-850-4.2	Salvage and Reinstall In-pavement L-850B Runway TDZ Light with New Isolation Transformer on New or Existing Base	EA	30		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) BASE BID

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
53	L-850-4.3	New In-pavement L-850C Runway Edge Light with New Isolation Transformer on New or Existing Base	EA	1		$ -	
54	L-858-5.1	New Size 3, 1-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
55	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
56	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
57	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	EA	2		$ -	
58	L-861T-4.3	Salvage and Reinstall L-862 Runway Edge Light with New Isolation Transformer on New or Existing Base	EA	7		$ -	
59	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	21		$ -	
60	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	38		$ -	
61	L-867/868-6.4	Size “B” L-868 Base Can – “Core Drill New PCCP” Installation at Joint or Sawcut	EA	11		$ -	
62	L-867/868-6.5	Size “B” L-868 Base Can – “Diamond Leave-out” Installation at Joint or Sawcut Intersection	EA	2		$ -	
63	L-867/868-6.6	New Size "B" L-867 Blank Base Can Cover	EA	12		$ -	
64	L-867/868-6.8	Concrete Foundation for 1-Module Sign	EA	1		$ -	
65	L-867/868-6.9	Concrete Foundation for 2-Module Sign	EA	2		$ -	
66	L-867/868-6.10	Concrete Foundation for 3-Module Sign	EA	2		$ -	
67	L-867/868-6.11	Concrete Foundation for 4-Module Sign	EA	2		$ -	
68	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	275		$ -	
69	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	61		$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) BASE BID

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.

Total Base Bid Amount: $ -

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #1

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	4,890		$ -	
7	P-101-5.3	Cement-Treated Base Removal	SY	5,280		$ -	
8	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	1,280		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	3.33		$ -	
10	P-151-4.2	Remove Existing Strom Drain Pipe	LF	796		$ -	
11	P-151-4.3	Remove Existing Catch Basin or Manhole	EA	6		$ -	
12	P-152-4.1	Unclassified Excavation	CY	9,330		$ -	
13	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	14,480		$ -	
14	P-155-8.2	Lime	TON	130		$ -	
15	540	Storm Water Pollution Prevention	LS	1		$ -	
16	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	2,430		$ -	
17	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	12,680		$ -	
18	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	12,570		$ -	
19	P-403-8.1a	Plant Mix Bituminous Pavements (3" Shoulder Surface Course)	TON	290		$ -	
20	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	12,220		$ -	
21	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	9,710		$ -	
22	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	1,670		$ -	
23	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	LF	730		$ -	
24	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	2,590		$ -	
25	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	5,590		$ -	
26	P-620-5.5	Reflective Surface Painted Holding Position Signs, Pre-formed Thermoplastic	EA	2		$ -	
27	P-620-5.7	Pavement Marking Obliteration	SF	5,360		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #1

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
28	T-901-5.1	Hydro-Mulch Seeding	AC	1.72		$ -	
29	T-904-5.1	Sodding	SY	1,980.00		$ -	
30	T-905-5.1	Topsoiling	CY	570		$ -	
31	D-701-5.1	24" RGRCP, Class V	LF	54		$ -	
32	D-701-5.2	30" RGRCP, Class V	LF	407		$ -	
33	D-701-5.3	42" RGRCP, Class V	LF	499		$ -	
34	D-751-5.1	Storm Drain Manholes	EA	3		$ -	
35	D-751-5.2	Catch Basins	EA	3		$ -	
36	D-751-5.4	Double Catch Basins	EA	1		$ -	
37	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	
38	L-100-5.3	Electrical Demolition	LS	0.20		$ -	
39	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	1,500		$ -	
40	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	5,300		$ -	
41	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,050		$ -	
42	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	2,240		$ -	
43	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	LF	1,060		$ -	
44	L-110-5.6	Multiple-way (4) 2-inch HDPE Conduits, Concrete Encased	LF	250		$ -	
45	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	LF	630		$ -	
46	L115-5.1	New Concrete Handhole, Type II, Furnished & Installed	EA	4		$ -	
47	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	17		$ -	
48	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	29		$ -	
49	L-867/868-6.4	Size “B” L-868 Base Can – “Core Drill New PCCP” Installation at Joint or Sawcut	EA	1		$ -	
50	L-867/868-6.6	New Size "B" L-867 Blank Base Can Cover	EA	17		$ -	
51	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	EA	30		$ -	
52	L-867/868-6.9	Concrete Foundation for 2-Module Sign	EA	2		$ -	
53	L-867/868-6.10	Concrete Foundation for 3-Module Sign	EA	3		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) ADDITIVE ALTERNATE #1

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
54	L-867/868-6.13	Sign Base Assembly in New PCCP, Any Single Sign Array	EA	1		$ -	
55	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	1,944		$ -	
56	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	1,861		$ -	
57	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	LF	30		$ -	
58	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	LF	200		$ -	
59	L-105-6.3	Long Term Temporary Secondary Circuit, (2)-1/C #10	LF	1,010		$ -	
60	L-105-6.5	Long Term Temporary, Single-way 1-1/4" Conduit	LF	90		$ -	
61	L-105-6.6	Long Term Temporary Isolation Transformer - Install	EA	3		$ -	
62	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	EA	5		$ -	
63	L-105-6.9	Long Term Temporary Pavement Mounted Taxiway Edge Light - Install	EA	14		$ -	

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #2

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	3,510		$ -	
7	P-101-5.2	Bituminous Pavement Removal	SY	90		$ -	
8	P-101-5.3	Cement-Treated Base Removal	SY	3,790		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	1.20		$ -	
10	P-152-4.1	Unclassified Excavation	CY	3,820		$ -	
11	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	6,080		$ -	
12	P-155-8.2	Lime	TON	130		$ -	
13	540	Storm Water Pollution Prevention	LS	1		$ -	
14	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	110		$ -	
15	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	6,060		$ -	
16	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	5,930		$ -	
17	P-403-8.1a	Plant Mix Bituminous Pavements (3" Shoulder Surface Course)	TON	14		$ -	
18	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	5,730		$ -	
19	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	5,100		$ -	
20	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	510		$ -	
21	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	1,460		$ -	
22	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	1,710		$ -	
23	T-904-5.1	Sodding	SY	1,030.00		$ -	
24	T-905-5.1	Topsoiling	CY	60		$ -	
25	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #2

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
26	L-100-5.1	ALCMS Modifications (Allowance)	LS	1	$ 12,500.00	$ 12,500.00	
27	L-100-5.2	Windcone Relocation	LS	1		$ -	
28	L-100-5.3	Electrical Demolition	LS	0.20		$ -	
29	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	900		$ -	
30	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	1,000		$ -	
31	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	970		$ -	
32	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	LF	230		$ -	
33	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		$ -	
34	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	4		$ -	
35	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	EA	11		$ -	
36	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	15		$ -	
37	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	EA	11		$ -	
38	L-867/868-6.10	Concrete Foundation for 3-Module Sign	EA	1		$ -	
39	L-867/868-6.13	Sign Base Assembly in New PCCP, Any Single Sign Array	EA	3		$ -	
40	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	420		$ -	
41	P-101-5.3	Cement-Treated Base Removal	SY	450		$ -	
42	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	160		$ -	
43	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	450		$ -	
44	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	450		$ -	
45	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	450		$ -	
46	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	420		$ -	
47	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	380		$ -	
48	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	530		$ -	
49	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	800		$ -	
50	P-620-5.7	Pavement Marking Obliteration	SF	1,270		$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #2

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
51	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	LF	80		$ -	
52	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	LF	650		$ -	
53	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	EA	9		$ -	
54	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	EA	6		$ -	

Total Alternate #2 Bid Amount: $ 12,500.00

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #3

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	3,950		$ -	
7	P-101-5.3	Cement-Treated Base Removal	SY	4,230		$ -	
8	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	160		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	1.19		$ -	
10	P-152-4.1	Unclassified Excavation	CY	4,900		$ -	
11	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	7,580		$ -	
12	P-155-8.2	Lime	TON	160		$ -	
13	540	Storm Water Pollution Prevention	LS	1		$ -	
14	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	1,390		$ -	
15	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	6,580		$ -	
16	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	6,530		$ -	
17	P-403-8.1a	Bituminous Pavement (3" Shoulder Surface Course)	TON	170		$ -	
18	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	6,370		$ -	
19	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	5,490		$ -	
20	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	280		$ -	
21	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	LF	470		$ -	
22	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	2,200		$ -	
23	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	1,940		$ -	
24	T-904-5.1	Sodding	SY	1,077.00		$ -	
25	T-905-5.1	Topsoiling	CY	60		$ -	
26	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	
27	L-100-5.1	ALCMS Modifications (Allowance)	LS	1	$ 12,500.00	$ 12,500.00	
28	L-100-5.3	Electrical Demolition	LS	0.20		$ -	
29	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	2,400		$ -	
30	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	1,700		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #3

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
31	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	550		$ -	
32	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	860		$ -	
33	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	LF	240		$ -	
34	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	LF	250		$ -	
35	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
36	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	3		$ -	
37	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	EA	20		$ -	
38	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	EA	8		$ -	
39	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	14		$ -	
40	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	14		$ -	
41	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	EA	9		$ -	
42	L-867/868-6.10	Concrete Foundation for 3-Module Sign	EA	2		$ -	
43	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	461		$ -	
44	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	692		$ -	
45	P-620-5.7	Pavement Marking Obliteration	SF	1,467		$ -	
46	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	LF	90		$ -	
47	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	LF	660		$ -	
48	L-105-6.3	Long Term Temporary Secondary Circuit, (2)-1/C #10	LF	320		$ -	
49	L-105-6.6	Long Term Temporary Isolation Transformer - Install	EA	1		$ -	
50	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	EA	3		$ -	
51	L-105-6.9	Long Term Temporary Pavement Mounted Taxiway Edge Light - Install	EA	4		$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

ADDITIVE ALTERNATE #3

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
52	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	EA	4		$ -	

Total Alternate #3 Bid Amount: $ 12,500.00

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #4

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	3,150		$ -	
7	P-101-5.3	Cement-Treated Base Removal	SY	3,360		$ -	
8	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	120		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	0.83		$ -	
10	P-152-4.1	Unclassified Excavation	CY	3,200		$ -	
11	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	4,930		$ -	
12	P-155-8.2	Lime	TON	110		$ -	
13	540	Storm Water Pollution Prevention	LS	1		$ -	
14	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	710		$ -	
15	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	4,450		$ -	
16	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	4,450		$ -	
17	P-403-8.1a	Bituminous Pavement (3" Shoulder Surface Course)	TON	90		$ -	
18	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	4,270		$ -	
19	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	3,850		$ -	
20	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	230		$ -	
21	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	LF	210		$ -	
22	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	2,350		$ -	
23	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	2,270		$ -	
24	P-620-5.6	Non-Reflective Green Infield Pavement Markings, Waterborne	SF	7,220		$ -	
25	T-904-5.1	Sodding	SY	822.00		$ -	
26	T-905-5.1	Topsoiling	CY	46		$ -	
27	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	
28	L-100-5.1	ALCMS Modifications (Allowance)	LS	1	$ 12,500.00	$ 12,500.00	
29	L-100-5.3	Electrical Demolition	LS	0.20		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #4

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
30	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	3,600		$ -	
31	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	1,100		$ -	
32	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	280		$ -	
33	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	590		$ -	
34	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	LF	200		$ -	
35	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	LF	170		$ -	
36	L-852-4.1	Salvage and Reinstall In-pavement L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	EA	14		$ -	
37	L-852-4.2	New L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	EA	11		$ -	
38	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
39	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	3		$ -	
40	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	EA	17		$ -	
41	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	EA	8		$ -	
42	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	6		$ -	
43	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	10		$ -	
44	L-867/868-6.10	Concrete Foundation for 3-Module Sign	EA	2		$ -	
45	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	319		$ -	
46	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	319		$ -	
47	P-620-5.7	Pavement Marking Obliteration	SF	1,545		$ -	
48	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	LF	350		$ -	
49	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	LF	420		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

ADDITIVE ALTERNATE #4

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
50	L-105-6.4	Temporary, Surface Mounted Single-way 2" Conduit	LF	300		$ -	
51	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	EA	10		$ -	
52	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	EA	4		$ -	
						$ -	

Total Alternate #4 Bid Amount: $ 12,500.00

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #5

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1	Mobilization/Demobilization	LS	1		$ -	
2	100.2	Insurance and Bond	LS	1		$ -	
3	100.3	Airside Safety and Security / Traffic Control	LS	1		$ -	
4	101.1	Preparing Right-of-Way	LS	1		$ -	
5	P-100-2.1	Contractor Quality Control	LS	1		$ -	
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	630		$ -	
7	P-101-5.3	Cement-Treated Base Removal	SY	680		$ -	
8	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	220		$ -	
9	P-151-4.1	Clearing and Grubbing	AC	3.24		$ -	
10	P-152-4.1	Unclassified Excavation	CY	3,500		$ -	
11	P-155-8.1	Lime-Treated Subgrade (6" Depth)	SY	5,150		$ -	
12	P-155-8.2	Lime	TON	110		$ -	
13	540	Storm Water Pollution Prevention	LS	1		$ -	
14	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	SY	4,070		$ -	
15	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	SY	2,490		$ -	
16	P-304-8.2	Cement-Treated Base Course, 12" Depth	SY	2,490		$ -	
17	P-403-8.1a	Bituminous Pavement (3" Shoulder Surface Course)	TON	480		$ -	
18	P-501-8.1a	Portland Cement Concrete Pavement, 16"	SY	2,410		$ -	
19	P-604-7.1	Preformed Sealer, 1/2-inch Joint	LF	2,070		$ -	
20	P-604-7.2	Preformed Sealer, 1-inch Joint	LF	320		$ -	
21	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	LF	1,120		$ -	
22	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	4,910		$ -	
23	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	770		$ -	
24	P-620-5.4	Reflective Holding Position Markings, Pre-formed Thermoplastic	EA	1,180		$ -	
25	P-620-5.6	Non-Reflective Green Infield Pavement Markings, Waterborne	SF	24,210		$ -	
26	P-620-5.2	Reflective White Runway Pavement Markings, Waterborne	SF	750		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) — ADDITIVE ALTERNATE #5

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
27	P-620-5.5	Reflective Surface Painted Holding Position Signs, Pre-formed Thermoplastic	EA	2		$ -	
28	P-620-5.7	Pavement Marking Obliteration	SF	1,450		$ -	
29	T-901-5.1	Hydro-Mulch Seeding	AC	1.05		$ -	
30	T-904-5.1	Sodding	SY	1,710.00		$ -	
31	T-905-5.1	Topsoiling	CY	376		$ -	
32	GP 60-05	Field Office and Curing Facilities	LS	1		$ -	
33	L-100-5.1	ALCMS Modifications (Allowance)	LS	1	$ 12,500.00	$ 12,500.00	
34	L-100-5.3	Electrical Demolition	LS	0.20		$ -	
35	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	4,600		$ -	
36	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	LF	2,200		$ -	
37	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,250		$ -	
38	L-110-5.3	Single-way 2" Conduit, Concrete Encased	LF	210		$ -	
39	L-110-5.7	Single-way 2" Conduit, Saw-cut in Existing PCCP	LF	720		$ -	
40	L-852-4.2	New L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	EA	5		$ -	
41	L-852-4.3	New L-852K Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	EA	7		$ -	
42	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		$ -	
43	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		$ -	
44	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		$ -	
45	L-858-5.6	New Size 3, 3+2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		$ -	
46	L-858-5.6	New Size 3, 4+2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		$ -	
47	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	EA	46		$ -	

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1) ADDITIVE ALTERNATE #5

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
48	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	EA	10		$ -	
49	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	19		$ -	
50	L-867/868-6.2	Size "B" L-867 Base Can Core Drill in Existing PCCP	EA	12		$ -	
51	L-867/868-6.3	Size “B” L-868 Base Can – “Standard Installation (New PCCP)”	EA	9		$ -	
52	L-867/868-6.12	Concrete Foundation for 4+2-Module Sign	EA	2		$ -	
53	L-867/868-6.14	Sign Base Assembly in Existing PCCP, Any Single Sign Array	EA	1		$ -	
54	L-867/868-6.15	Sign Base Assembly on Existing PCCP, 3+2-Module	EA	2		$ -	
55	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	131		$ -	
56	P-101-5.3	Cement-Treated Base Removal	SY	140		$ -	
57	P-620-5.7	Pavement Marking Obliteration	SF	2,825		$ -	
58	L-105-6.8	Long Term Temporary Stake Mounted Taxiway Edge Light - Remove	EA	10		$ -	
59	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	EA	4		$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

ADDITIVE ALTERNATE #5

PROJECT NO. 33-00178 AND 33-00193 (AIP NO 3-48-0192-XX-2013)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.

Total Alternate #5 Bid Amount: $ 12,500.00

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

SAN ANTONIO AIRPORT SYSTEM

RWY 12R-30L REHAB & TERMINAL AREA TWY IMPROVEMENTS (PKG 1)

PRE-BID MEETING

Wednesday July 31, 2013 @ 830 a.m.

Terminal A Conference Room

Name	Organization	Phone Number	E-Mail Address
Apostolos Pavlioglou D.	Yantis Company	(210) 655-3780	apd@yantiscompany.com apavlioglou@yantiscompany.com
BRYCE BARE	UTILITY CONSTRUCTION COMPANY, INC.	(210) 441-9042	BRYCE@UTILITYCONSTRUCTIONCO.COM
MICHAEL NORBY	KIMLEY-HORN & ASSOC.	602-944-5500	mike.norby@kimley-horn.com
Steve Reeder	" " "	" "	Steve.Reeder@Kimley-horn.com
ERIC LOVEJOY	" " "	775.280.1969	eric.lovejoy@kimley-horn.com
Adam Novak	Kimley-Horn	210-541-9166	adam.novak@kimley-horn.com
John Chase	COSA/SAFETY	210-207-1656	
Bernard Murphy	COSA Aviation	207-3592	bernard.murphy@sanantonio.gov
Donna Graves	COSA Aviation	207-3472	donna.graves@sanantonio.gov
DIANE COOK	COSA "	207-591	DIANE.COOK@SANANTONIO.GOV
Leonor Grimaldo-Hargis	COSA "	207-1651	leonor.grimaldo-hargis@sanantonio.gov
IRMA V. GARDNER	COSA "	207-1607.	Irma.Gardner@sanantonio.gov

SAN ANTONIO AIRPORT SYSTEM

RWY 12R-30L REHAB & TERMINAL AREA TWY IMPROVEMENTS (PKG 1)

PRE-BID MEETING

Wednesday July 31, 2013 @ 830 a.m.

Terminal A Conference Room

Name	Organization	Phone Number	E-Mail Address
bennie garcia III	Webber	210 389 0463	bennie.garcia@wwebber.com
Robert Williams	TEI PCM	214. 760. 1966	RWILLIAMS@TEICONSTRUCTION.com
Charles Carlson	Spawglass Civil	832 253 8881	charles.carlson@spawglass.com
Agustin Hernandez	COSA P&D	210-207-3523	agustin.hernandez@sanantonio.gov
Tony Hildebrand	SAECO Electric	210-695-4526 #21	thildebrand@saecoelectric.com
Mark Dorazio	Dorazio Enterprises	210-490-3933 ot 490-8895 fax	mark@doraziioenterprises.com
GURUNATH KAMPLI	DORAZIO ENTERPRISES	210-490-3933	GURU@ DORAZIOENTERPRISES.COM
Lisa Brice	COSA Aviation	2102073505	lisa.brice@sanantonio.gov
PJ Sons	J3 Co	830 995-5100	PJ@J3CO.com
Manuel Garcia	COSA-Labor	2077872	manuel.g.garcia@sanantonio.gov
Hector Vasquez Jr	COSA-Aviation P&D	207-3896	hector.vasquez@sanantonio.gov
Katinda Howell	COSA	7-3457	Katinda@sanantonio.gov

SAN ANTONIO AIRPORT SYSTEM

RWY 12R-30L REHAB & TERMINAL AREA TWY IMPROVEMENTS (PKG 1)

PRE-BID MEETING

Wednesday July 31, 2013 @ 830 a.m.

Terminal A Conference Room

Name	Organization	Phone Number	E-Mail Address
K C [illegible]	CSA [illegible]	207-3506	Kao[illegible].ch[illegible]@S[illegible]you
John Coggins	CSA OPS	207-3475	john.coggins@sanantonio.gov
Jacob Bowers	Kimley-Horn	210-541-9166	jacob.bowers@kimley-horn.com
Loretta Rodriguez	Kimley-Horn	210-541-9166	loretta.rodriguez@kimley-horn.com

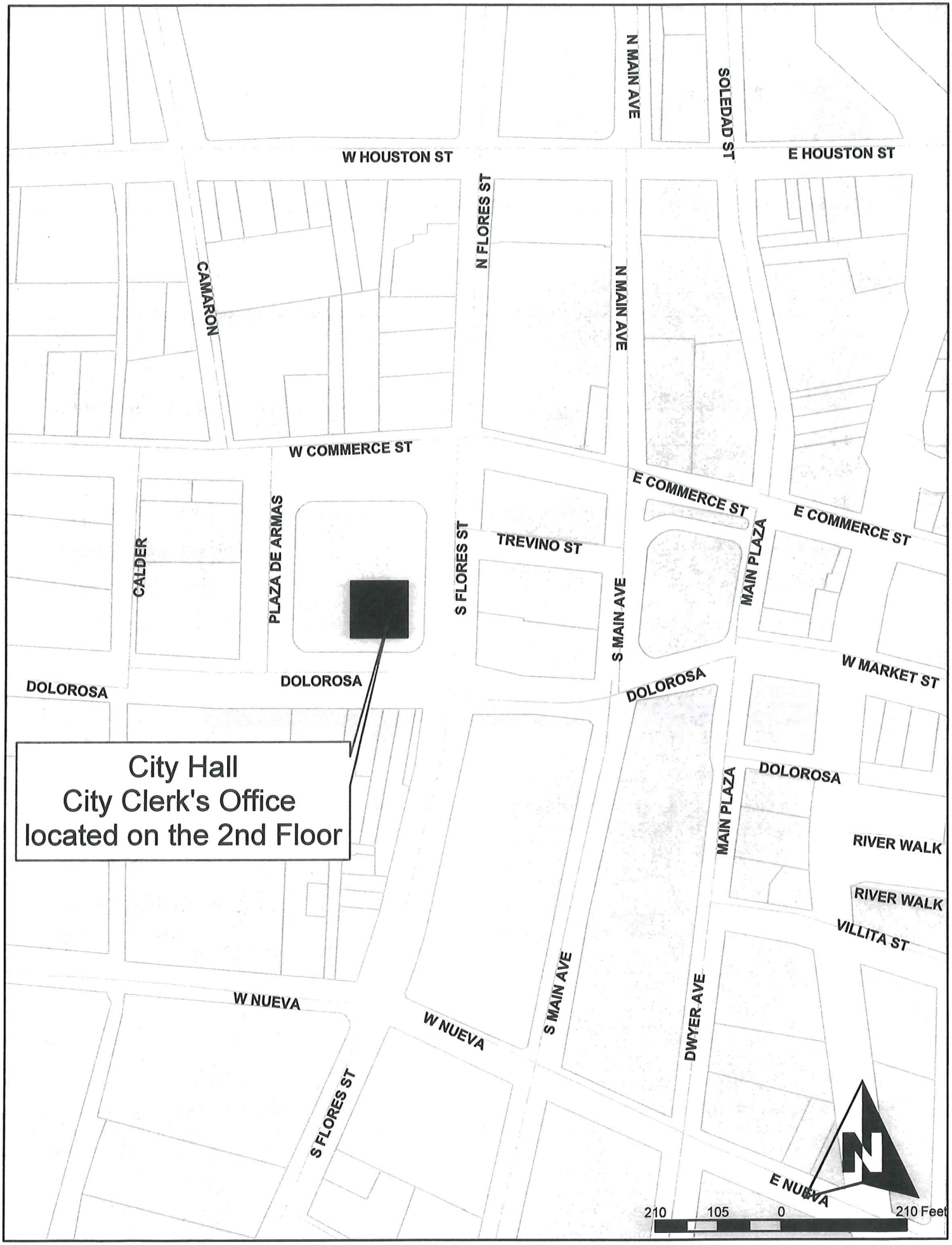
CITY OF SAN ANTONIO
AVIATION DEPARTMENT
INVITATION FOR BID
RUNWAY 12R-30L REHABILITATION & TERMINAL AREA TAXIWAY IMPROVEMENTS (Pkg 1)

PRE-BID MEETING
San Antonio International Airport
Terminal A – Mezzanine Conference Room, 9800 Airport Blvd., San Antonio, TX 78216
Wednesday, July 31, 2013; 8:30 a.m.

1. Welcome and Introductions ..... Loyce Clark, Aviation Dept.
2. Background ..... Loyce Clark
3. Scope of Work ..... Mike Norby, Kimley Horn & Associates
4. Disadvantage Business Enterprise (DBE) Program ..... Lisa Brice / Bernard Murphy, Aviation Dept.
5. Security / Badge & ID ..... Mike Mitchell, Aviation Dept.
6. Airfield Driver's License ..... Ryan Rocha, Aviation Dept.
7. Wage & Labor Compliance ..... Thomas Nixon/ Manuel G. Garcia, CIMS Dept.
8. Invitation for Bid (IFB) Schedule ..... Mike Norby
   a. Deadline for Questions ---------- Tuesday, August 13, 2013, 2:00 p.m.
   b. IFB Submittals Due ---------- Tuesday, August 20, 2013, 2:00 p.m.
   c. Council Consideration ---------- October 2013
9. Submittal Instructions ..... Mike Norby
   a. Hand Delivery: Office of City Clerk, City Hall, 100 Military Plaza, 2nd Floor
   b. No Signature = Unresponsive
10. Required Documents per IFB ..... Mike Norby
11. Addenda ..... Mike Norby
12. Questions
13. Site Visit

NOTE: Visitors to City Hall are required to enter through the east side of the building. The public will pass through a metal detector and x-ray machine located in the lobby. All packages, purses and carried items will be scanned during regular business hours of 7 a.m. to 7 p.m. After the public proceeds through the metal detector, they will sign in and receive a visitor's badge. For those that might require the use of a ramp, entry is available on the south side of the building (Dolorosa side). Security will meet the visitor in the basement with a hand scanner.

Please anticipate this security screening changes and allow ample time for delivery of proposal responses. The City is NOT responsible for late delivery of any proposal responses.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City Hall
City Clerk's Office
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CITY OF SAN ANTONIO
AVIATION DEPARTMENT
INVITATION FOR BID
RUNWAY 12R-30L REHABILITATION & TERMINAL AREA TAXIWAY IMPROVEMENTS (Package 1)

PRE-BID MEETING MINUTES AND QUESTIONS
San Antonio International Airport
Terminal A – Mezzanine Conference Room, 9800 Airport Blvd.,, San Antonio, TX 78216
Wednesday, July 31, 2013; 8:30 a.m.

1. Welcome and Introductions ..... Loyce Clark, Aviation Department
    a. *Loyce began with welcome to attendees and introductions were made. Everyone was asked to sign in and agendas were made to all attendees.*
2. Background ..... Mike Norby, Kimley-Horn
    a. *This is the first project in a series of rehabilitations that will take place over the next 6 years throughout the airport. These projects were identified, planned and programmed based on a Pavement Management Program, Master Plan, Anticipated future needs, and new FAA requirements.*
    b. *This project consists of airside construction work at San Antonio International Airport. The intent of the contract is to provide for construction and completion, in every detail, of the work described. It is further intended that the Contractor furnish all labor, materials, equipment, tools, transportation and supplies required to complete the work in accordance with the plans, specifications, and terms of the contract.*
3. Scope of Work ..... Mike Norby, Kimley-Horn
    a. *The project is as shown in the figure and includes a Base Bid and 5 Alternatives.*
    b. *The project is broken out to this detail due to limited funds from the FAA, the need to maximize the funding that is anticipated from the FAA, and to meet the current needs of the airport.*
        i. *The "Base Bid" consists of the reconstruction of two areas of pavement on Runway 12R-30L. The area of reconstruction on the 12R end of the runway is 325 feet long and 150 feet wide while the area on the 30L end is 425 feet long by 50 feet wide. In addition to the runway, Taxiway W will be constructed to a point outside of the Runway Safety Area (RSA). This taxiway will be constructed with 16 inches of PCC pavement on 12 inches of CTB on 6 inches of Crushed Aggregate Base (AB) on 6 inches of lime stabilized subgrade on compacted subgrade.*

ii. *Alternate 1 Alternate bid number one (1) consists of the reconstruction and expansion of the inner taxilane and stub outs for ultimate connecting taxiways to Taxiway G.*

iii. *Alternate bid number two (2) consists of the reconstruction and expansion of a portion of Taxiway G and the construction of a new connecting taxiway (G2) to the inner taxilane.*

iv. *Alternate bid number three (3) consists of the reconstruction and expansion of a portion of Taxiway G and the construction of a new connecting taxiway (G1) to the inner taxilane.*

v. *Alternate bid number four (4) consists of the reconstruction and expansion of a portion of Taxiway G and the construction of a new connecting taxiway (G3) to the inner taxilane.*

vi. *Alternate bid number five (5) consists of the construction of the remaining portion of Taxiway W from the RSA to Taxiway G including the FAA required tapers. Alternate 5 also includes the reconstruction of a portion of Taxiway G, the installation of asphalt paved shoulders along Taxiway G and the construction of a painted island (Taxiway W island).*

c. *The project will consist of PCC Pavement removal, Grading, drainage, PCC mainline paving, AC shoulder paving, marking, lighting, and airside traffic control. The typical Pavement Section for all new pavements includes 16 inches of Reinforced PCCP (P-501), on 12 inches of Cement Treated Base (P-304), on 6 inches of AB (P-209), on 6 inches of Lime Stabilized Base (P-155).*

d. *The items completed in each phase need to be operable and are adjusted accordingly for each alternate.*

e. *Electrically, the project is simple in its overview. There are no FAA facilities involved. The one major complication is the fiber optic cable that runs through the island from Taxiway Delta to Taxiway November that powers the computer control system between the tower and the lighting vault. The cable cannot be cut or pulled meaning this particular duct bank must be protected. The completion of the electrical system must function at the end of each alternate. There is a series of drawings that show electrical system phasing in various degrees of temporary that need to be completed at the end of each phase. The paint markings will be treated in the same manner.*

f. *Construction Phasing is as shown in the plans. However, depending on the bids and what is awarded, there is the possibility to combine some of the phases such as Alt 2, 3, and 4 to maximize efficiency and minimize closure.*

i. *The Contractor must submit a compliance document to the Airport Construction Safety Plan which is a separate document that is included with these contract documents.*

ii. *Contractor must follow the phasing plans and plan for and include the necessary staff to man gates, act in the field as flaggers at Taxiway Crossings and provide the required lighted X's and barricades for the project.*

g. *Haul Routes – There are two shown on the plans. One is completely airside and the other is both landside and airside. The use of these haul routes could change daily (Due to winds and operations) and will be discussed each morning with the Contractor. The contractor will have to modify their daily activities to use the desired haul route.*

    i. *If more sweepers need to be on site, staff (flaggers, gate guards, etc.*

h. *Vacuum Sweepers will be required / no FOD on Taxiways that are in use.*

i. *Maintain active taxiway circuits, taxiway signs, lights and cable.*

4. Disadvantage Business Enterprise (DBE) Program ..... Lisa Brice / Bernard Murphy, Aviation Dept.

    a. *The DBE goal for this project is 24.8 percent. This percentage is taking into account all five alternates that are involved. This solicitation is part of the DBE Program because it is federally funded. Please ensure that DBE Certification is held by subcontractors included in the bid. Small businesses are an exception and will be considered if submitted with participation documents. DBE prime contractors can reach goal themselves. If you are unable to reach DBE goal, you must show good faith efforts that includes outreach, providing notification far enough in advance, working with small businesses, etc. If subcontractor is DBE eligible and does not have certification or if subcontractor does not have DBE Certification in Texas, please contact Lisa Brice so she can assist them with certification prior to bid date. Please document efforts made to meet DBE goal. Once subcontractors are in place, ensure or encourage them to register with City of San Antonio Central Vendor Registry. The DBE office will be available up until the day of the bid to assist contractors with information.*

5. Security / Badge & ID ..... Loyce Clark, Aviation Dept.

    a. *The bid documents contain the requirements for the security conditions that each contractor must apply with, as well as, the badging process and application. If you are entering a secure area, personnel must obtain badges and be cleared through the process. This includes all activities that require moving from the non-secure side to the airfield. Personnel will be required to attend classes to receive the badges. Fees will apply. Every condition required in this project must be met, without exception, due to entering a secure environment as well as interfacing with aircraft. Be aware that badging is a lengthy process and can take several weeks to fully process.*

6. Airfield Driver's License ..... Loyce Clark, Aviation Dept.

    a. *Individuals driving, delivering, moving on the airfield will require an airfield driver's license. They must be maintained and carried on their person at all times while on the premises. Failure to do so can result in dismissal, fines, ejection from the premises, etc. The meeting today allows contractors to plan ahead and factor in time and fees that are needed to fulfill these requirements. Insurance requirements for the prime contractor – If an individual obtains an airfield driver's license and drives on the airfield, that individual must have same insurance in place or must be covered by prime. If this requirement is not met, they will not be allowed on the airfield. The airport looks to the prime contractors to ensure that subcontractors are within compliance.*

7. Wage & Labor Compliance ..... Manuel G. Garcia, City of San Antonio

a. *Some of the requirements of the labor department include using the most current Heavy and Highway Wage Decision dated January 4, 2013. Also, certified payroll must be submitted weekly by general contractor and subcontractors. The general contractor is responsible for all certified payroll submitted. This project carries a $60/day penalty per occurrence of underpayment of employee wages either by the subcontractor or general contractor. City Hall requires time and a half payment to employees on seven approved holidays.*

8. Invitation for Bid (IFB) Schedule ..... Mike Norby, Kimley-Horn

   a. Pre-Bid meeting ---------- July 31, 2013
   b. Deadline for Questions ---------- Tuesday, August 13, 2013, 2:00 p.m.

   b. IFB SUBMITTALS DUE ---------- Tuesday, August 20, 2013, 2:00 p.m.
   Late Bids will not be accepted!
   SAT will present the information to the FAA to determine the amount of the award.

   c. Council Consideration ---------- October 2013

9. Submittal Instructions ..... Mike Norby, Kimley-Horn

   a. Hand Delivery: Office of City Clerk, City Hall, 100 Military Plaza, 2nd Floor
   b. No Signature = Unresponsive

10. Required Documents per IFB..... Mike Norby, Kimley-Horn

11. Addenda ..... Mike Norby, Kimley-Horn

    a. It anticipated that there will be two addendums for this project but that does not limit the amount if there is an item that needs to be addressed. The known addenda's will be issued following this meeting to include the meeting minutes and changes that we have to date. If any questions come in electronically in next couple of days, those will be included as well in the first addendum. The deadline for questions is Tuesday, August 13, 2013 at 2:00pm. An addendum will follow the deadline to address all of the questions or issues gathered before that time. Additional addenda may be issued as needed. The current plan holder's list is small. If plans are retrieved from a website, it is your responsibility to check back for addenda.

12. Questions

    The following are questions that were asked during the PreBid Meeting as well as the following site visit.

    1. Q - Is the $19 million stated in the specifications an estimate for the entire project?

       A – Yes, it includes the base bid and all 5 alternatives.

    2. Q - Will there be a site visit?

       A - Once all questions are answered, we will continue with site visit.

    3. Q - Please verify again what will be included in first addendum?

       A - The meeting minutes and sign in sheet from today's meeting, updated bid tab, answers to any questions made to this point, and minor changes found within plans.

    4. Q - When will that be issued?

A - We are anticipating first addendum to be issued on Friday.

5. Q - Is there onsite disposal?

   A - There is not onsite disposal. Everything is taken off and away from here.

6. Q - Has the airport utilized recycled concrete?

   A - The airport has not used recycled concrete and the way the FAA will allow it in this point in time, is in some of the base materials. But prior approval is needed. The concrete currently in use is reinforced and it takes a lot of work to get reinforcement out of it. We have used it in other airports as base material, as aggregate base. FAA does not want it reused in anything else. If there is asphalt material, asphalt material is not allowed underneath full strength pavement. It can be reused but it is not in specifications. If you have an alternate method, it has to be bid to specifications and then apply for approval.

7. Q - Can work be done at night?

   A - Yes, lower air traffic levels can be expected during the period of approximately 11:00pm til 6:00am.

8. Q - Do all drivers on the airfield need to be badged, including concrete deliveries?

   A - Yes, if they are on the airfield for an aggregate of 14 days or more. This includes 14 days in a row, or 14 sporadic days. To be confirmed with the Airport.

9. Q - Can contractors receive wind and operating configuration information the night before so that they may set up their flaggers based on the appropriate airport operating configuration?

   A – The airport will provide the information to the contractor as soon as they have confirmation of the winds. If available at the end of the previous day they will provide this information. If not it will be the first item of conversation on the morning meeting.

13. Site Visit

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SUMMARY OF QUANTITIES - BID BASE

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	8,010	SY
8	P-101-5.3	Cement-Treated Base Removal	8,130	SY
9	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	1,290	LF
11	P-151-4.1	Clearing and Grubbing	2.75	AC
12	P-151-4.2	Remove Existing Storm Drain Pipe	353	LF
13	P-151-4.3	Remove Existing Catch Basin or Manhole	3	EA
14	P-152-4.1	Unclassified Excavation	8,220	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	10,290	SY
16	P-155-8.2	Lime	220	Ton
17	Item 540	Storm Water Pollution Prevention Plan	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	4,670	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	9,140	SY
20	P-304-8.1	Cement-Treated Base Course, 10" Depth	2,330	SY
21	P-304-8.2	Cement-Treated Base Course, 12" Depth	9,100	SY
22	P-403-8.1a	Plant Mix Bituminous Pavement (3" Shoulder Surface Course)	200	Ton
23	P-501-8.1a	Portland Cement Concrete Pavement, 16"	11,120	SY
24	P-604-7.1	Preformed Sealer, 1/2-inch Joint	8,780	LF
25	P-604-7.2	Preformed Sealer, 1-inch Joint	260	LF
26	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	460	LF
28	P-620-5.2	Reflective White Runway Pavement Markings, Waterborne	31,690	SF
29	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	3,250	SF
33	P-620-5.7	Pavement Making Obliteration	5,650	SF
34	P-621-4.1	Concrete Pavement Saw Cut Grooving (Runway)	7,060	SY
35	T-901-5.1	Hydro-Mulch Seeding	2.30	AC
36	T-904-5.1	Sodding	1,910.00	SY
37	T-905-5.1	Topsoiling	726	CY
39	D-701-5.2	30" RGRCP, Class V	412	LF
42	D-705-5.1	Runway Edge Drain System	1	LS
44	D-751-5.2	Catch Basins	1	EA
46	D-751-5.3	Double Catch Basins	1	EA
47	GP 60-05	Field Office and Curing Facilities	1	LS
49	L-100-5.2	Windcone Relocation	1	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
51	L-100a-3.1	Photometric Testing	1	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	11,300	L.F.
53	L-108-5.2	L-824, Type C, 1/C #6, 5 kV Cable	9,100	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	6,000	L.F.
55	L-110-5.1	Single-way 2" Conduit, Direct Buried	2,350	L.F.
56	L-110-5.2	Multiple-way (8) 2-inch Conduits, Direct Buried	980	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	2,390	L.F.
58	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	10	L.F.
59	L-110-5.5	Multiple-way (8) 2-inch Conduits, Concrete Encased	250	L.F.
63	L115-5.1	New Concrete Handhole, Type II, Furnished & Installed	3	EA
64	L115-5.2	Two-Can Junction Can Plaza, Furnished & Installed	3	EA
65	L-850-4.1	Salvage and Reinstall In-pavement L-850A Runway Centerline Light with New Isolation Transformers on New or Existing Base	21	EA
66	L-850-4.2	Salvage and Reinstall In-pavement L-850B Runway TDZ Light with New Isolation Transformer on New or Existing Base	30	EA
67	L-850-4.3	New In-pavement L-850C Runway Edge Light with New Isolation Transformer on New or Existing Base	1	EA
71	L-858-5.1	New Size 3, 1-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
73	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
74	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
77	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	2	EA
79	L-861T-4.3	Salvage and Reinstall L-862 Runway Edge Light with New Isolation Transformer on New or Existing Base	7	EA
80	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	21	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	38	EA
83	L-867/868-6.4	Size "B" L-868 Base Can – "Core Drill New PCCP" Installation at Joint or Sawcut	11	EA
84	L-867/868-6.5	Size "B" L-868 Base Can – "Diamond Leave-out" Installation at Joint or Sawcut Intersection	2	EA
85	L-867/868-6.6	New Size "B" L-867 Blank Base Can Cover	12	EA
87	L-867/868-6.8	Concrete Foundation for 1-Module Sign	1	EA
88	L-867/868-6.9	Concrete Foundation for 2-Module Sign	2	EA
89	L-867/868-6.10	Concrete Foundation for 3-Module Sign	2	EA
90	L-867/868-6.11	Concrete Foundation for 4-Module Sign	2	EA
PHASE BASED QUANTITIES				
104	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	275	SF
106	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	61	SF

SUMMARY OF QUANTITIES - ALTERNATE 1

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	4,890	SY
8	P-101-5.3	Cement-Treated Base Removal	5,280	SY
9	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	1,280	LF
11	P-151-4.1	Clearing and Grubbing	3.33	AC
12	P-151-4.2	Remove Existing Storm Drain Pipe	796	LF
13	P-151-4.3	Remove Existing Catch Basin or Manhole	6	EA
14	P-152-4.1	Unclassified Excavation	9,330	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	14,480	SY
16	P-155-8.2	Lime	310	Ton
17	Item 540	Storm Water Pollution Prevention	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	2,430	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	12,680	SY
22	P-304-8.2	Cement-Treated Base Course, 12" Depth	12,570	SY
23	P-403-8.1a	Plant Mix Bituminous Pavement (3" Shoulder Surface Course)	290	Ton
24	P-501-8.1a	Portland Cement Concrete Pavement, 16"	12,220	SY
25	P-604-7.1	Preformed Sealer, 1/2-inch Joint	9,710	LF
26	P-604-7.2	Preformed Sealer, 1-inch Joint	1,670	LF
27	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	730	LF
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	2,590	SF
30	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	5,590	SF
32	P-620-5.5	Reflective Surface Painted Holding Position Signs, Pre-formed Thermoplastic	2	EA
34	P-620-5.7	Pavement Making Obliteration	5,360	SF
36	T-901-5.1	Hydro-Mulch Seeding	1.72	AC
37	T-904-5.1	Sodding	1,980.00	SY
38	T-905-5.1	Topsoiling	570	CY
39	D-701-5.1	24" RGRCP, Class V	54	LF
40	D-701-5.2	30" RGRCP, Class V	407	LF
41	D-701-5.3	42" RGRCP, Class V	499	LF
44	D-751-5.1	Storm Drain Manholes	3	EA
45	D-751-5.2	Catch Basins	3	EA
46	D-751-5.3	Double Catch Basins	1	EA
47	GP 60-05	Field Office and Curing Facilities	1	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	1,500	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	5,300	L.F.
55	L-110-5.1	Single-way 2" Conduit, Direct Buried	1,050	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	2,240	L.F.
58	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	1,060	L.F.
60	L-110-5.6	Multiple-way (4) 2-inch HDPE Conduits, Concrete Encased	250	L.F.
62	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	630	L.F.
63	L115-5.1	New Concrete Handhole, Type II, Furnished & Installed	4	EA
80	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	17	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	29	EA
83	L-867/868-6.4	Size "B" L-868 Base Can – "Core Drill New PCCP" Installation at Joint or Sawcut	1	EA
85	L-867/868-6.6	New Size "B" L-867 Blank Base Can Cover	17	EA
86	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	30	EA
88	L-867/868-6.9	Concrete Foundation for 2-Module Sign	2	EA
89	L-867/868-6.10	Concrete Foundation for 3-Module Sign	3	EA
92	L-867/868-6.13	Sign Base Assembly in New PCCP, Any Single Sign Array	1	EA
PHASE BASED QUANTITIES				
104	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	1,944	SF
106	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	1,861	SF
108	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	30	L.F.
109	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	200	L.F.
110	L-105-6.3	Long Term Temporary Secondary Circuit, (2)-1/C #10	1,010	L.F.
112	L-105-6.5	Long Term Temporary, Single-way 1-1/4" Conduit	90	L.F.
113	L-105-6.6	Long Term Temporary Isolation Transformer - Install	3	EA
114	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	5	EA
116	L-105-6.9	Long Term Temporary Pavement Mounted Taxiway Edge Light - Install	14	EA

CITY OF
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AVIATION
DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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
REHABILITATION AND
TERMINAL AREA TAXIWAY
IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED
PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION

ISSUE: -
PROJECT NO: 33-00178 and 33-00193
FILE NAME: _33-00193-R1GN-002
DRAWN BY: PAC
CHECKED BY: MAN
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SHEET TITLE:

SUMMARY OF QUANTITIES

C1.6

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SUMMARY OF QUANTITIES - ALTERNATE 2

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	3,510	SY
7	P-101-5.2	Bituminous Pavement Removal	90	SY
8	P-101-5.3	Cement-Treated Base Removal	3,790	SY
11	P-151-4.1	Clearing and Grubbing	1.20	AC
14	P-152-4.1	Unclassified Excavation	3,820	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	6,080	SY
16	P-155-8.2	Lime	130	Ton
17	Item S40	Storm Water Pollution Prevention	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	110	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	6,060	SY
22	P-304-8.2	Cement-Treated Base Course, 12" Depth	5,930	SY
23	P-403-8.1a	Plant Mix Bituminous Pavement (3" Shoulder Surface Course)	14	Ton
24	P-501-8.1a	Portland Cement Concrete Pavement, 16"	5,730	SY
25	P-604-7.1	Preformed Sealer, 1/2-inch Joint	5,100	LF
26	P-604-7.2	Preformed Sealer, 1-inch Joint	510	LF
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	1,460	SF
30	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	1,710	SF
36	T-901-5.1	Hydro-Mulch Seeding	0.20	AC
37	T-904-5.1	Sodding	1,030.00	SY
38	T-905-5.1	Topsoiling	60	CY
47	GP 60-05	Field Office and Curing Facilities	1	LS
48	L-100-5.1	ALCMS Modifications (Allowance)	0.25	LS
49	L-100-5.2	Windcone Relocation	1	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	900	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	1,000	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	970	L.F.
62	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	230	L.F.
72	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	2	EA
73	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	4	EA
77	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	11	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	15	EA
86	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	11	EA
89	L-867/868-6.10	Concrete Foundation for 3-Module Sign	1	EA
92	L-867/868-6.13	Sign Base Assembly in New PCCP, Any Single Sign Array	3	EA
PHASE BASED QUANTITIES				
95	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	420	SY
96	P-101-5.3	Cement-Treated Base Removal	450	SY
97	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	160	LF
98	P-155-8.1	Lime-Treated Subgrade (6" Depth)	450	SY
99	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	450	SY
100	P-304-8.1	Cement-Treated Base Course, 12" Depth	450	SY
101	P-501-8.1a	Portland Cement Concrete Pavement, 16"	420	SY
102	P-604-7.1	Preformed Sealer, 1/2-inch Joint	380	LF
104	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	530	SF
106	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	800	SF
107	P-620-5.7	Pavement Making Obliteration	1,270	SF
108	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	80	L.F.
109	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	650	L.F.
114	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	9	EA
117	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	6	EA

SUMMARY OF QUANTITIES - ALTERNATE 3

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	3,950	SY
8	P-101-5.3	Cement-Treated Base Removal	4,230	SY
9	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	160	LF
11	P-151-4.1	Clearing and Grubbing	1.19	AC
14	P-152-4.1	Unclassified Excavation	4,900	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	7,580	SY
16	P-155-8.2	Lime	160	Ton
17	Item S40	Storm Water Pollution Prevention	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	1,390	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	6,580	SY
22	P-304-8.2	Cement-Treated Base Course, 12" Depth	6,530	SY
23	P-403-8.1a	Bituminous Pavement (3" Shoulder Surface Course)	170	SY
24	P-501-8.1a	Portland Cement Concrete Pavement, 16"	6,370	SY
25	P-604-7.1	Preformed Sealer, 1/2-inch Joint	5,490	LF
26	P-604-7.2	Preformed Sealer, 1-inch Joint	280	LF
27	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	470	LF
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	2,200	SF
30	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	1,940	SF
35	P-621-5.1	Concrete Pavement Saw Cut Grooving (Runway)	7,060	SY
36	T-901-5.1	Hydro-Mulch Seeding	0.13	AC
37	T-904-5.1	Sodding	1,077.00	SY
38	T-905-5.1	Topsoiling	60	CY
47	GP 60-05	Field Office and Curing Facilities	1	LS
48	L-100-5.1	ALCMS Modifications (Allowance)	0.25	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	2,400	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	1,700	L.F.
55	L-110-5.1	Single-way 2" Conduit, Direct Buried	550	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	860	L.F.
58	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	240	L.F.
62	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	250	L.F.
72	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
73	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	3	EA
77	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	20	EA
78	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	8	EA
80	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	14	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	14	EA
86	L-867/868-6.7	New Size "B" L-868 Blank Base Can Cover	9	EA
89	L-867/868-6.10	Concrete Foundation for 3-Module Sign	2	EA
PHASE BASED QUANTITIES				
104	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	461	SF
106	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	692	SF
107	P-620-5.7	Pavement Making Obliteration	1,467	SF
108	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	90	L.F.
109	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	660	L.F.
110	L-105-6.3	Long Term Temporary Secondary Circuit, (2)-1/C #10	320	L.F.
113	L-105-6.6	Long Term Temporary Isolation Transformer - Install	1	EA
114	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	3	EA
116	L-105-6.9	Long Term Temporary Pavement Mounted Taxiway Edge Light - Install	4	EA
117	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	4	EA

CITY OF
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DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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 REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
ISSUE:		-

PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1GN-002
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SUMMARY OF QUANTITIES

C1.7

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SUMMARY OF QUANTITIES - ALTERNATE 4

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	3,150	SY
8	P-101-5.3	Cement-Treated Base Removal	3,360	SY
9	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	120	LF
11	P-151-4.1	Clearing and Grubbing	0.83	AC
14	P-152-4.1	Unclassified Excavation	3,200	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	4,930	SY
16	P-155-8.2	Lime	110	Ton
17	Item 540	Storm Water Pollution Prevention	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	710	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	4,450	SY
22	P-304-8.2	Cement-Treated Base Course, 12" Depth	4,450	SY
23	P-403-8.1	Bituminous Pavement (3" Shoulder Surface Course)	90	Ton
24	P-501-8.1a	Portland Cement Concrete Pavement, 16"	4,270	SY
25	P-604-7.1	Preformed Sealer, 1/2-inch Joint	3,850	LF
26	P-604-7.2	Preformed Sealer, 1-inch Joint	230	LF
27	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	210	LF
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	2,350	SF
30	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	2,270	SF
33	P-620-5.6	Non-Reflective Green Infield Pavement Markings, Waterborne	7,220	SF
37	T-904-5.1	Sodding	822.00	SY
38	T-905-5.1	Topsoiling	46	CY
47	GP 60-05	Field Office and Curing Facilities	1	LS
48	L-100-5.1	ALCMS Modifications (Allowance)	0.25	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	3,600	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	1,100	L.F.
55	L-110-5.1	Single-way 2" Conduit, Direct Buried	280	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	590	L.F.
58	L-110-5.4	Multiple-way (4) 2-inch Conduist, Concrete Encased	200	L.F.
62	L-110-5.8	System Drain, (1) 2" Conduit, Concrete Encased	170	L.F.
68	L-852-4.1	Salvage and Reinstall In-pavement L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	14	EA
69	L-852-4.2	New L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	11	EA
72	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
73	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	3	EA
77	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	17	EA
78	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	8	EA
80	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	6	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	10	EA
89	L-867/868-6.10	Concrete Foundation for 3-Module Sign	2	EA
PHASE BASED QUANTITIES				
104	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	319	SF
106	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	319	SF
107	P-620-5.7	Pavement Making Obliteration	1,545	SF
108	L-105-6.1	Temporary Jumper, L-824, Type C, 1/C #6, 5 kV Cable in Conduit	350	L.F.
109	L-105-6.2	Long Term Temporary Direct Buried L-824, Type C, 1/C #6, 5 kV Cable,	420	L.F.
111	L-105-6.4	Temporary, Surface Mounted Single-way 2" Conduit	300	L.F.
114	L-105-6.7	Long Term Temporary Stake Mounted Taxiway Edge Light - Install	10	EA
117	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	4	EA

SUMMARY OF QUANTITIES - ALTERNATE 5

Item	Specification Number	Bid Item Description	Quantity	Unit
BASE BID				
1	100.1	Mobilization/Demobilization	1	LS
2	100.2	Insurance and Bonds	1	LS
3	100.3	Airside Safety and Security / Traffic Control	1	LS
4	101.1	Preparing Right-of-Way	1	LS
5	P-100-2.1	Contractor Quality Control	1	LS
6	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	630	SY
7	P-101-5.2	Bituminous Pavement Removal	680	SY
9	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	220	LF
11	P-151-4.1	Clearing and Grubbing	3.24	AC
14	P-152-4.1	Unclassified Excavation	3,500	CY
15	P-155-8.1	Lime-Treated Subgrade (6" Depth)	5,150	SY
16	P-155-8.2	Lime	110	Ton
17	Item 540	Storm Water Pollution Prevention	1	LS
18	P-208-5.1	Uncrushed Aggregate Base Course, 13" Depth	4,070	SY
19	P-209-5.1	Crushed Aggregate Base Course, 6" Depth	2,490	SY
22	P-304-8.2	Cement-Treated Base Course, 12" Depth	2,490	SY
23	P-403-8.1a	Bituminous Pavement (3" Shoulder Surface Course)	480	Ton
24	P-501-8.1a	Portland Cement Concrete Pavement, 16"	2,410	SY
25	P-604-7.1	Preformed Sealer, 1/2-inch Joint	2,070	LF
26	P-604-7.2	Preformed Sealer, 1-inch Joint	320	LF
27	TxDOT 712.3a	Edge Seal (Hot Applied Joint Routing and Sealing)	1,120	LF
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	4,910	SF
29	P-620-5.2	Reflective White Runway Pavement Markings, Waterborne	770	SF
30	P-620-5.3	Non-Reflective Black Runway and Taxiway Pavement Markings, Waterborne	4,150	SF
31	P-620-5.4	Reflective Holding Position Markings, Pre-formed Thermoplastic	1,180	SF
32	P-620-5.5	Reflective Surface Painted Holding Position Signs, Pre-formed Thermoplastic	2	EA
33	P-620-5.6	Non-Reflective Green Infield Pavement Markings, Waterborne	24,210	SF
34	P-620-5.7	Pavement Making Obliteration	1,450	SF
36	T-901-5.1	Hydro-Mulch Seeding	1.05	AC
37	T-904-5.1	Sodding	1,710.00	SY
38	T-905-5.1	Topsoiling	376	CY
47	GP 60-05	Field Office and Curing Facilities	1	LS
48	L-100-5.1	ALCMS Modifications (Allowance)	0.25	LS
50	L-100-5.3	Electrical Demolition	0.20	LS
52	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	4,600	L.F.
54	L-108-5.3	Bare, 1/C #6, Counterpoise Cable	2,200	L.F.
55	L-110-5.1	Single-way 2" Conduit, Direct Buried	1,250	L.F.
57	L-110-5.3	Single-way 2" Conduit, Concrete Encased	210	L.F.
61	L-110-5.7	Single-way 2" Conduit, Saw-cut in Existing PCCP	720	L.F.
69	L-852-4.2	New L-852C Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	5	EA
70	L-852-4.3	New L-852K Taxiway Centerline Light with New Isolation Transformer on New or Existing Base	7	EA
72	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	2	EA
73	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	2	EA
74	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	1	EA
75	L-858-5.6	New Size 3, 3+2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	2	EA
76	L-858-5.6	New Size 3, 4+2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	2	EA
77	L-861T-4.1	New L-861T(L) LED Taxiway Edge Light with New Isolation Transformer on New or Existing Base	46	EA
78	L-861T-4.2	Spare L-861T(L) LED Taxiway Edge Light with New Isolation Transformer	10	EA
80	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	19	EA
81	L-867/868-6.2	Size "B" L-867 Base Can Core Drill in Existing PCCP	12	EA
82	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	9	EA
91	L-867/868-6.12	Concrete Foundation for 4+2-Module Sign	2	EA
93	L-867/868-6.14	Sign Base Assembly in Existing PCCP, Any Single Sign Array	1	EA
94	L-867/868-6.15	Sign Base Assembly on Existing PCCP, 3+2-Module	2	EA
PHASE BASED QUANTITIES				
95	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	131	SY
96	P-101-5.3	Cement-Treated Base Removal	140	SY
107	P-620-5.7	Pavement Making Obliteration	2,825	SF
115	L-105-6.8	Long Term Temporary Stake Mounted Taxiway Edge Light - Remove	14	EA
117	L-105-6.10	Long Term Temporary Pavement Mounted Taxiway Edge Light - Remove	4	EA

CITY OF
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DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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
REHABILITATION AND
TERMINAL AREA TAXIWAY
IMPROVEMENTS (PACKAGE 1)

STATE OF TEXAS
MICHAEL A. NORBY
57178
REGISTERED
PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION

ISSUE: -
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SUMMARY OF QUANTITIES

C1.8

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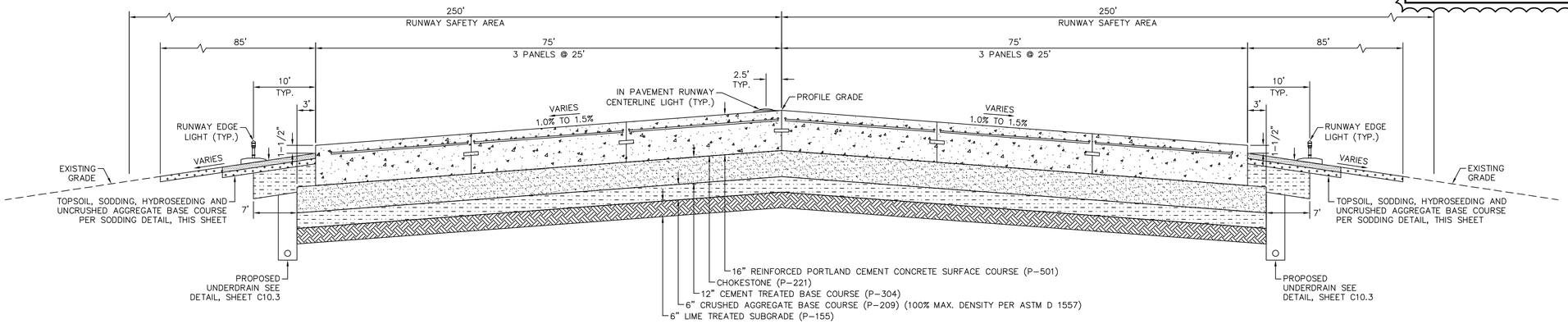
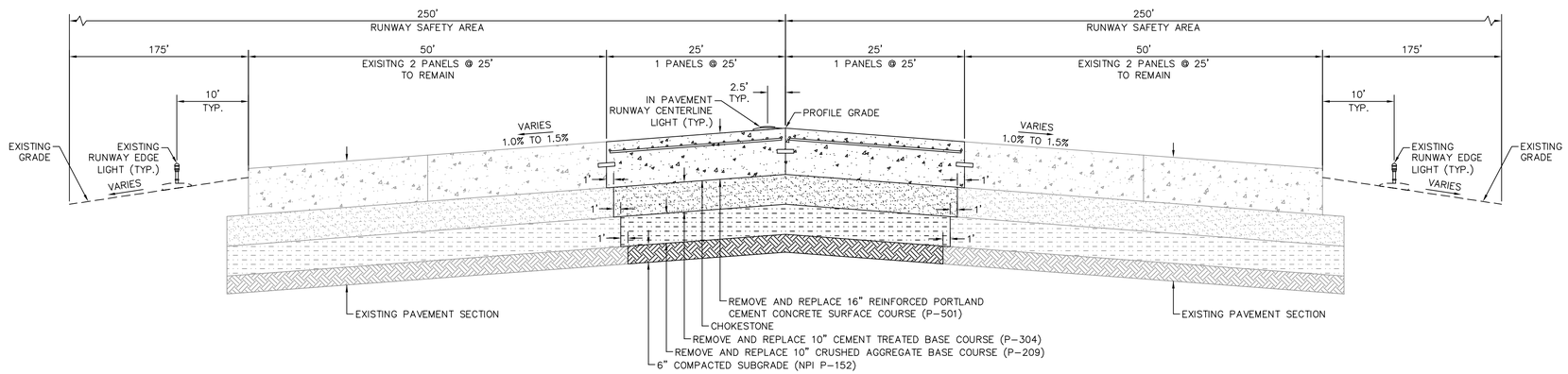


A / C4.1 RUNWAY 12R TYPICAL SECTION
STA. 118+00 TO STA. 121+25
N.T.S



B / C4.1 RUNWAY 30L TYPICAL SECTION
STA. 180+74 TO STA. 184+99
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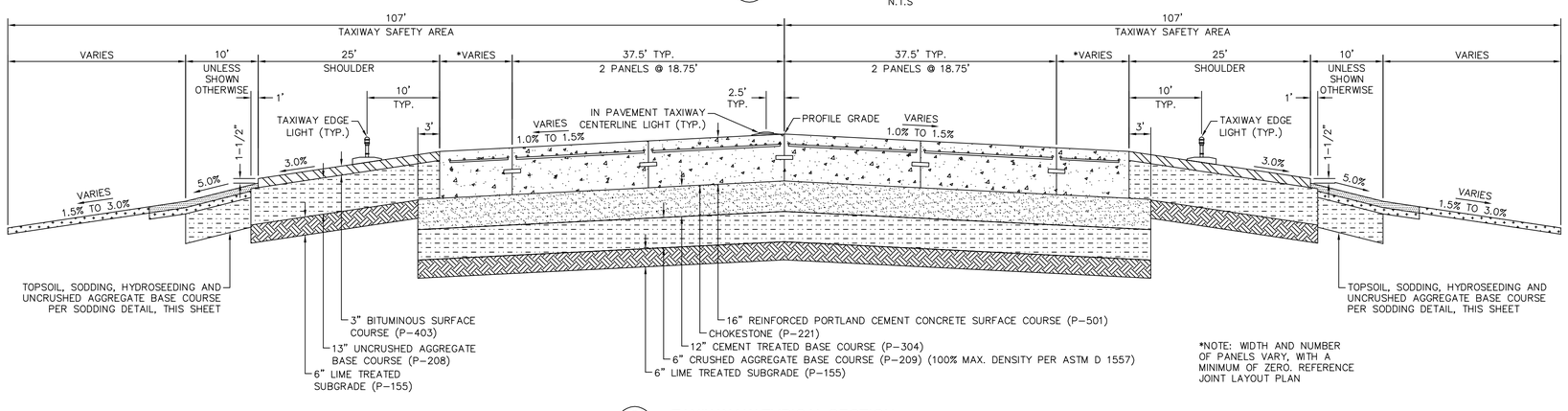
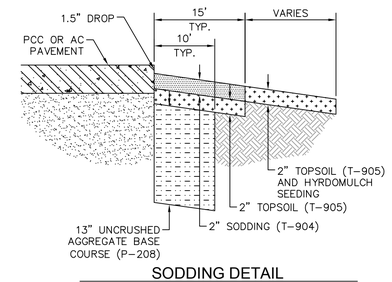


*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

C / C4.1 TAXIWAY W TYPICAL SECTION
N.T.S



SODDING DETAIL
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.

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PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

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TYPICAL SECTIONS

C4.1

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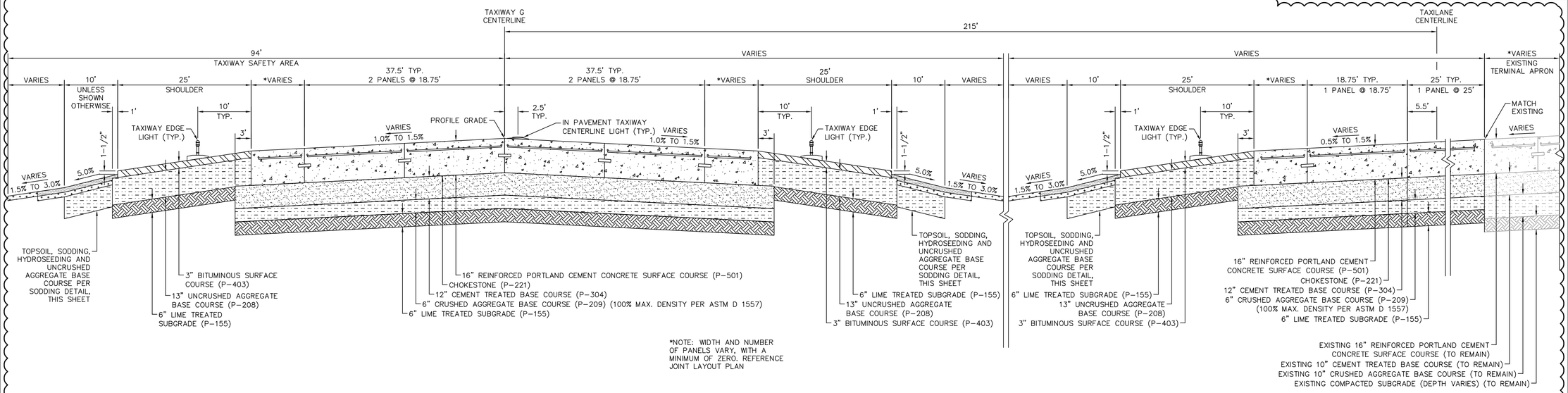
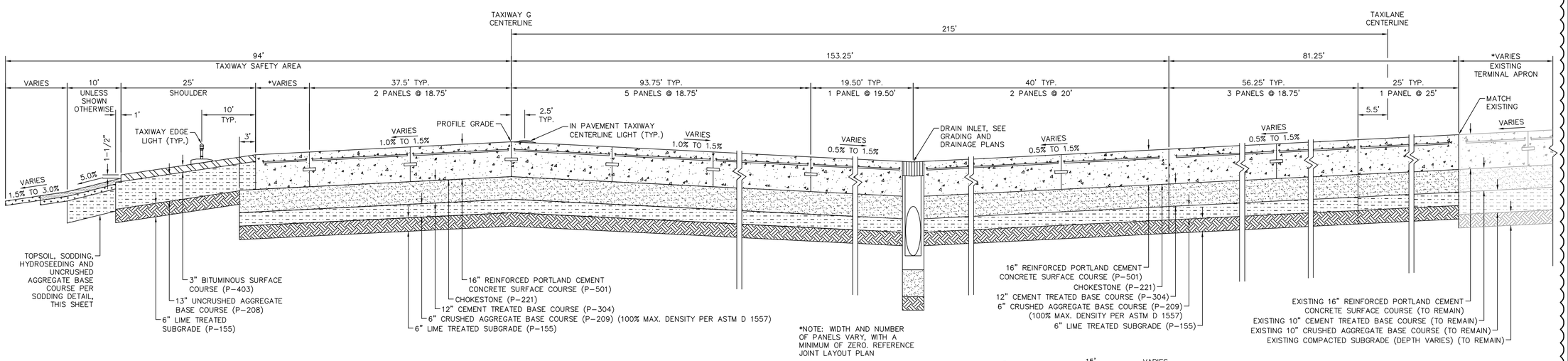


*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

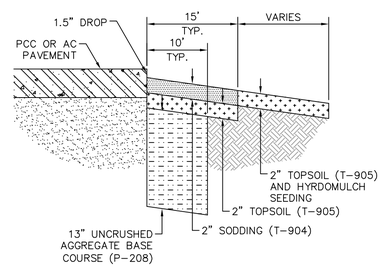
A / C4.2 TAXIWAY 'G' AND TAXILANE TYPICAL SECTION



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

B / C4.2 TAXIWAY 'G' AND CONNECTING TAXIWAY ('G2' AND 'G3') SECTION

N.T.S



SODDING DETAIL

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.

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

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TYPICAL SECTIONS

C4.2

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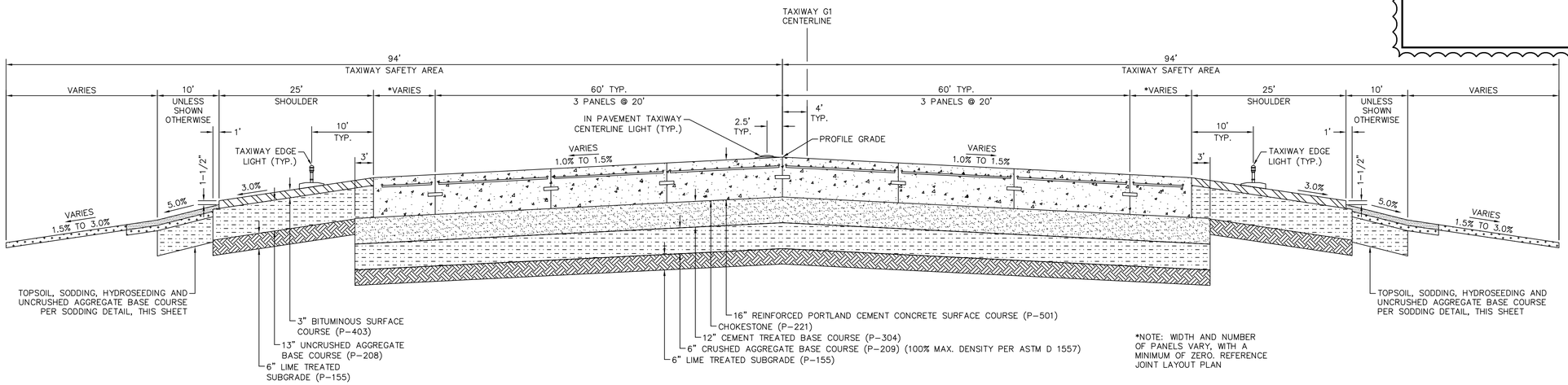
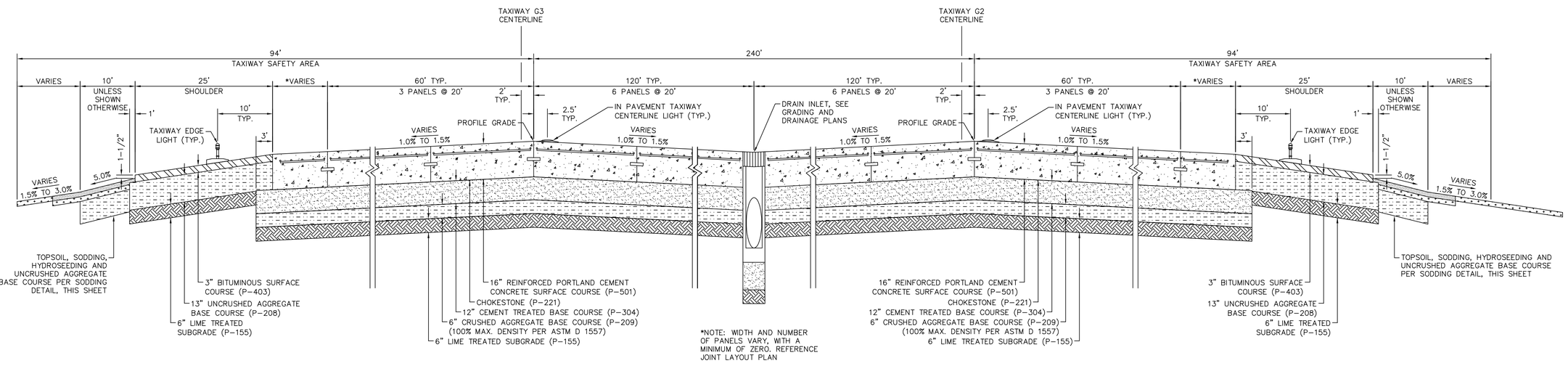


A C4.3 TAXIWAY 'G1' TYPICAL SECTION

N.T.S



B C4.3 TAXIWAY 'G3' AND TAXIWAY 'G2' TYPICAL SECTION

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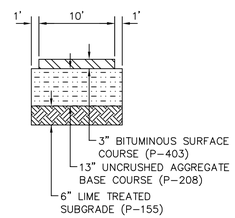
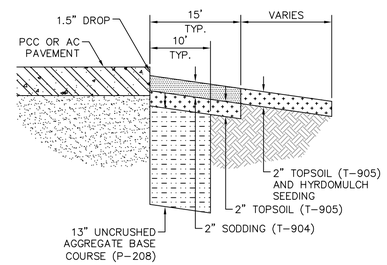


C C4.3 PAPI ROAD TYPICAL SECTION

N.T.S



SODDING DETAIL

N.T.S

GENERAL NOTES

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MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER

08/02/13

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TYPICAL SECTIONS

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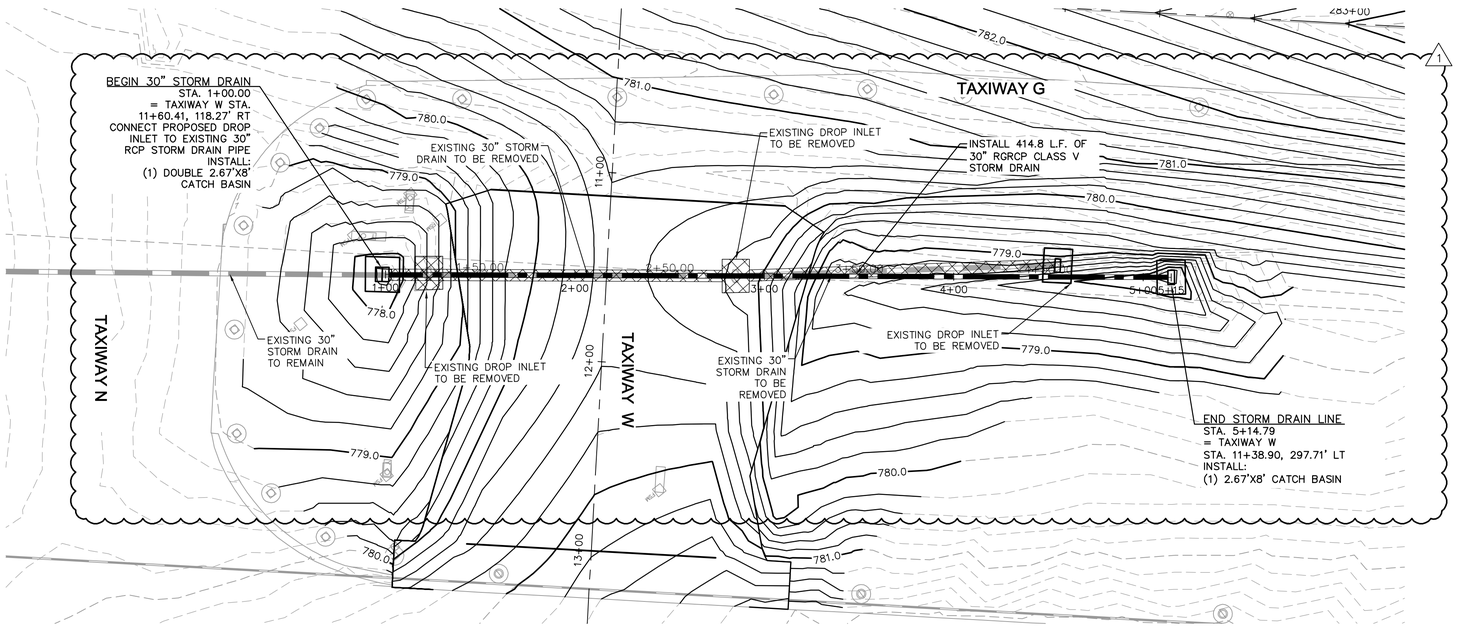
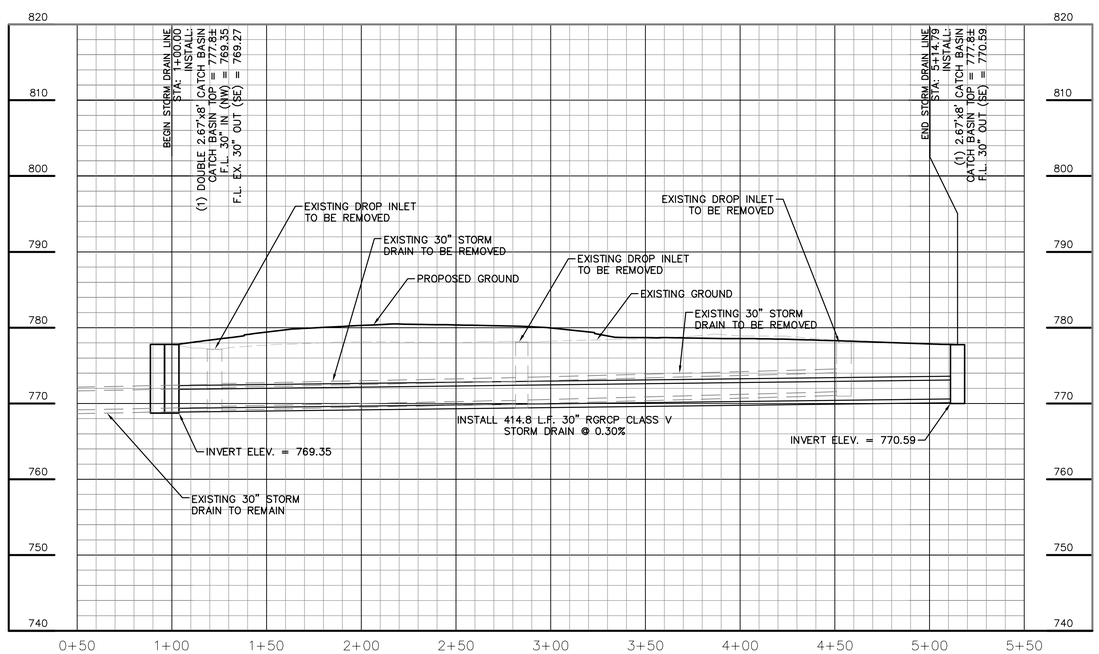


PLAN VIEW



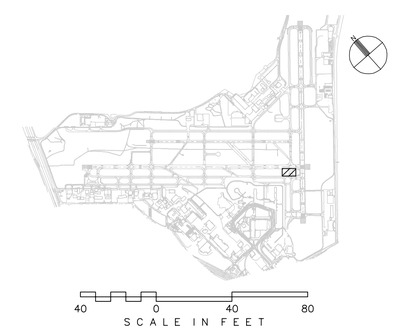
PROFILE VIEW

LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CATCH BASIN
- STORM DRAIN TO BE REMOVED
- EXISTING CONTOURS
- PROPOSED CONTOURS

GENERAL NOTES

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
2. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.



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MICHAEL A. NORBY
87178
REGISTERED
PROFESSIONAL ENGINEER
08/02/13

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STORM DRAIN
PROFILES
BASE BID

C9.3

SHEET NO. 40 OF 214

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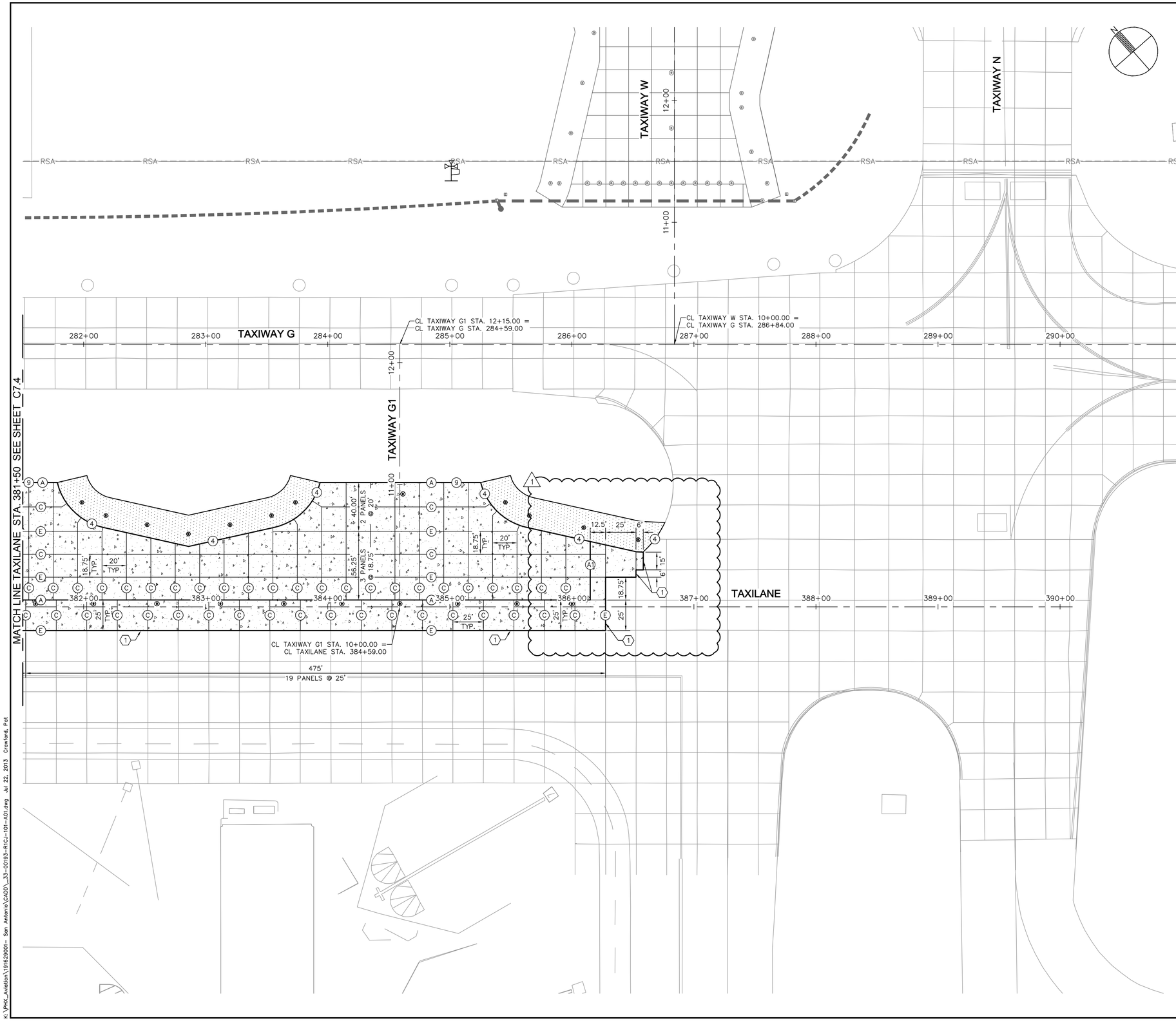


LEGEND

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

(A) JOINT TYPE A, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(A1) JOINT TYPE A1, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(C) JOINT TYPE C, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(E) JOINT TYPE E, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(4) EDGE SEAL TYPE 4, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(9) JOINT TYPE 9, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

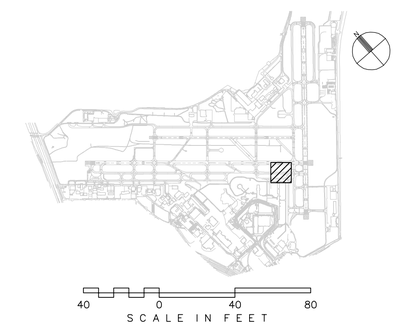
GENERAL NOTES

1. REFER TO SHEET C1.12 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 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 C7.3

CONSTRUCTION NOTES

(1) SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION

(2) REFER TO ELECTRICAL PLANS (SERIES E)



CITY OF
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AVIATION
DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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 REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE:	-
PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CJ-101-A01
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SHEET TITLE:

PAVEMENT JOINT LAYOUT PLAN BID ALT. 1

C7.5

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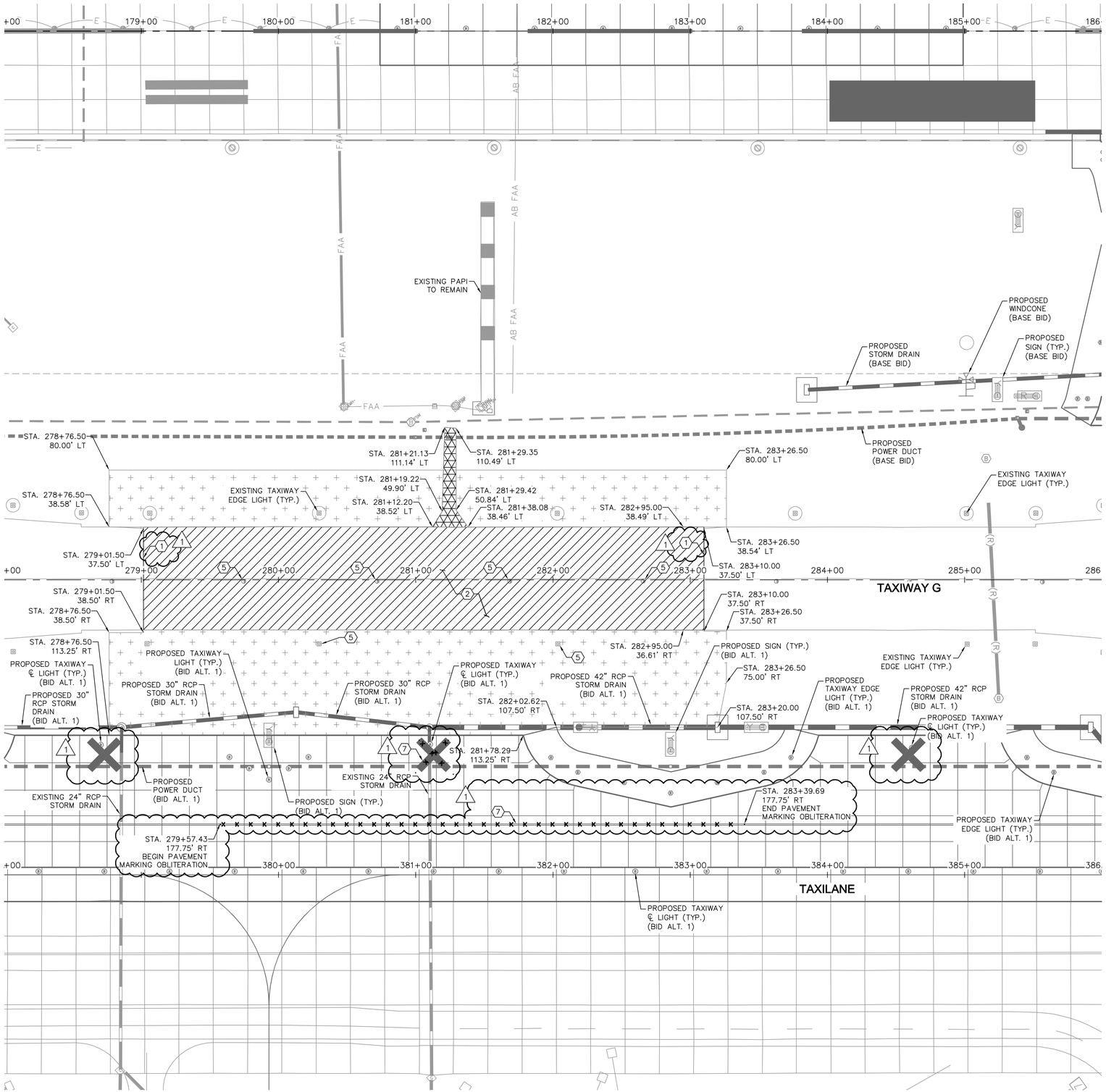


LEGEND

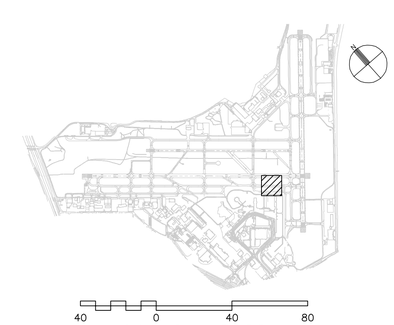
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- BITUMINOUS PAVEMENT REMOVAL
- PAVEMENT MARKING OBLITERATION

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 C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.

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



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MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE: -

PROJECT NO: 33-00178 and 33-00193
FILE NAME: _33-00193-R1CD-101-A02
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SHEET TITLE:

DEMOLITION PLAN
BID ALT. 2

C3.6
SHEET NO. 123 OF 214

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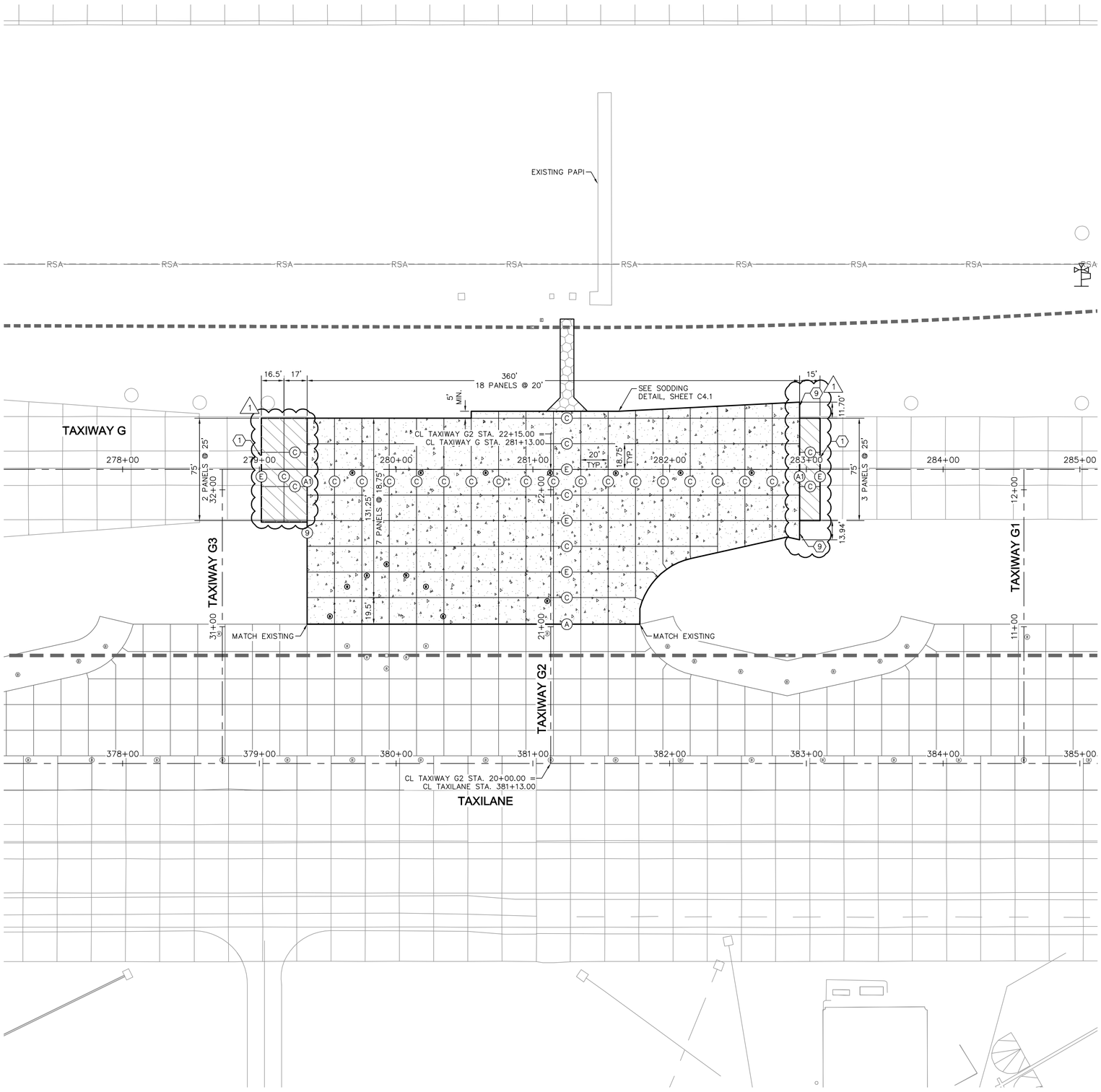


LEGEND

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

(A) JOINT TYPE A, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(A1) JOINT TYPE A1, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(C) JOINT TYPE C, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(E) JOINT TYPE E, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(4) EDGE SEAL TYPE 4, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(9) JOINT TYPE 9, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

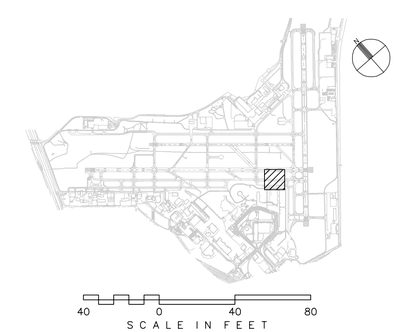
GENERAL NOTES

1. REFER TO SHEET C1.12 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 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 C7.3

CONSTRUCTION NOTES

(1) SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION

(2) REFER TO ELECTRICAL PLANS (SERIES E)



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FILE NAME: _33-00193-R1CJ-101-A02

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SHEET TITLE:

PAVEMENT JOINT LAYOUT PLAN BID ALT. 2

C7.6

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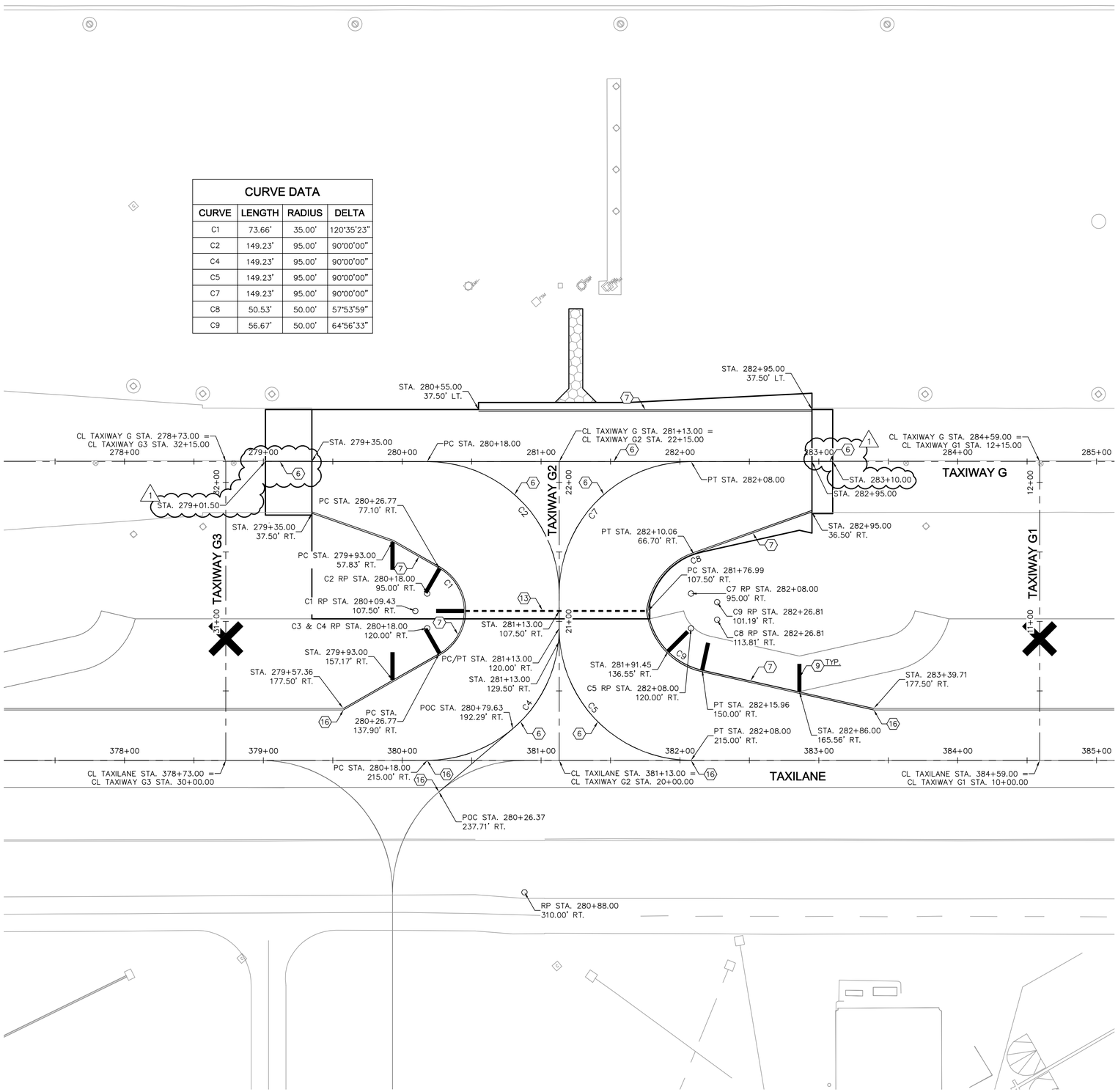
CURVE DATA			
CURVE	LENGTH	RADIUS	DELTA
C1	73.66'	35.00'	120°35'23"
C2	149.23'	95.00'	90°00'00"
C4	149.23'	95.00'	90°00'00"
C5	149.23'	95.00'	90°00'00"
C7	149.23'	95.00'	90°00'00"
C8	50.53'	50.00'	57°53'59"
C9	56.67'	50.00'	64°56'33"



LEGEND

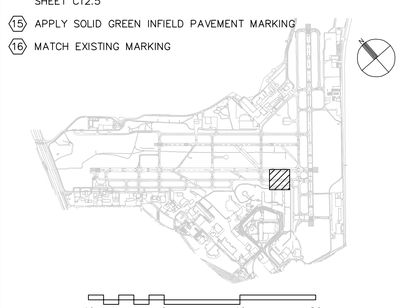
- RUNWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY TOUCHDOWN ZONE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- SOLID GREEN INFIELD PAVEMENT MARKING

GENERAL NOTES

1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE CURING MATERIALS FROM THE PCCP PRIOR TO THE APPLICATION OF MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE DOUBLE APPLICATION OF ALL NEW PAVEMENT MARKINGS (2 COATS)
5. ALL PERMANENT MARKINGS, LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
6. EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL MARKINGS THAT WILL BE RE-STRIPED ON THIS PROJECT, HOWEVER ADDITIONAL MARKINGS MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.
8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

1. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 1, SHEET C12.4
2. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 2, SHEET C12.4
3. APPLY SOLID WHITE RUNWAY AIMING POINT PAVEMENT MARKING WITH SIX INCH (6") BLACK BORDER
4. APPLY SOLID WHITE RUNWAY DESIGNATION MARKING WITH SIX INCH (6") BLACK BORDER PER DETAIL 5, SHEET C12.5
5. APPLY ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING PER DETAIL 6, SHEET C12.4
6. APPLY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 3, SHEET C12.4
7. APPLY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 4, C12.4
8. REFER TO DETAIL 1, SHEET C12.5 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
9. APPLY THIRTY-SIX INCH (36") WIDE SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKING PER DETAIL 5, SHEET C12.4
10. APPLY SOLID YELLOW CLOSED TAXIWAY PAVEMENT MARKING PER DETAIL 2, SHEET C12.5
11. APPLY SURFACE PAINTED HOLD POSITION SIGN PER DETAIL 3, SHEET C12.5
12. APPLY BLACK PAINT TO PCC PAVEMENT THAT LIES OUTSIDE OF TAXIWAY EDGE MARKINGS (NPI)
13. APPLY DASHED YELLOW INTERMEDIATE HOLDING POSITION MARKING PER DETAIL 4, SHEET C12.5
14. APPLY SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 6, SHEET C12.5
15. APPLY SOLID GREEN INFIELD PAVEMENT MARKING
16. MATCH EXISTING MARKING



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MICHAEL A. NORBY
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REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE: -

PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CM-101-A02
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SHEET TITLE:

PAVEMENT MARKING PLAN BID ALT. 2

C12.8

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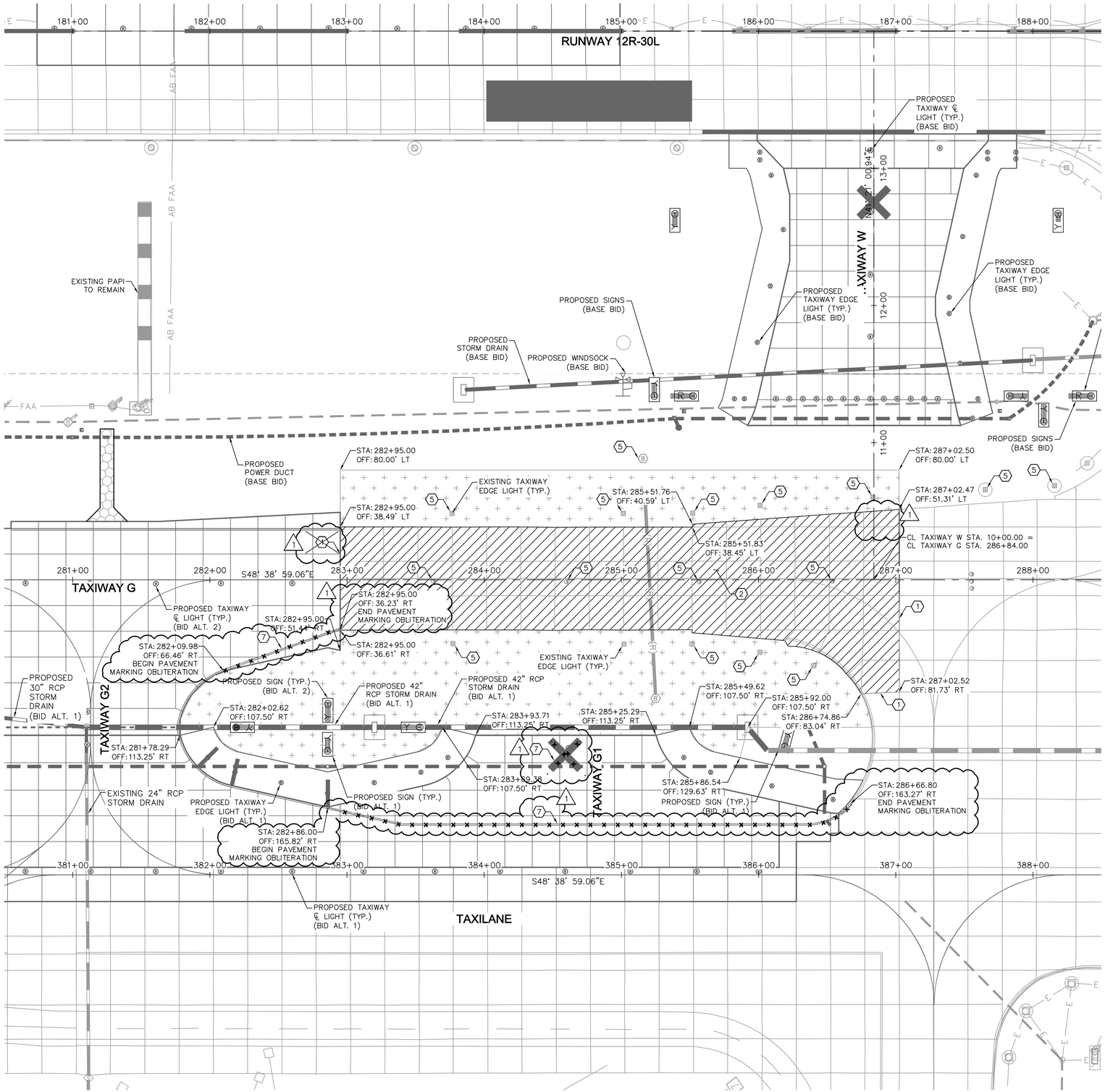


LEGEND

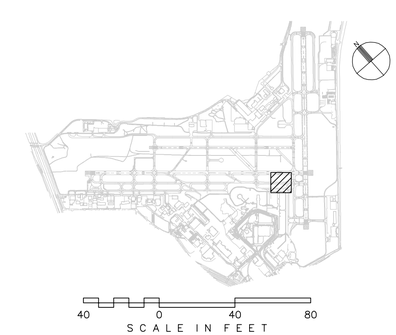
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- PAVEMENT MARKING OBLITERATION

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 C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.

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



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ISSUE: -

PROJECT NO: 33-00178 and 33-00193
FILE NAME: _33-00193-R1CD-101-A03
DRAWN BY: CAD
CHECKED BY: MAN
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SHEET TITLE:

DEMOLITION PLAN
BID ALT. 3

C3.7

SHEET NO. 144 OF 214

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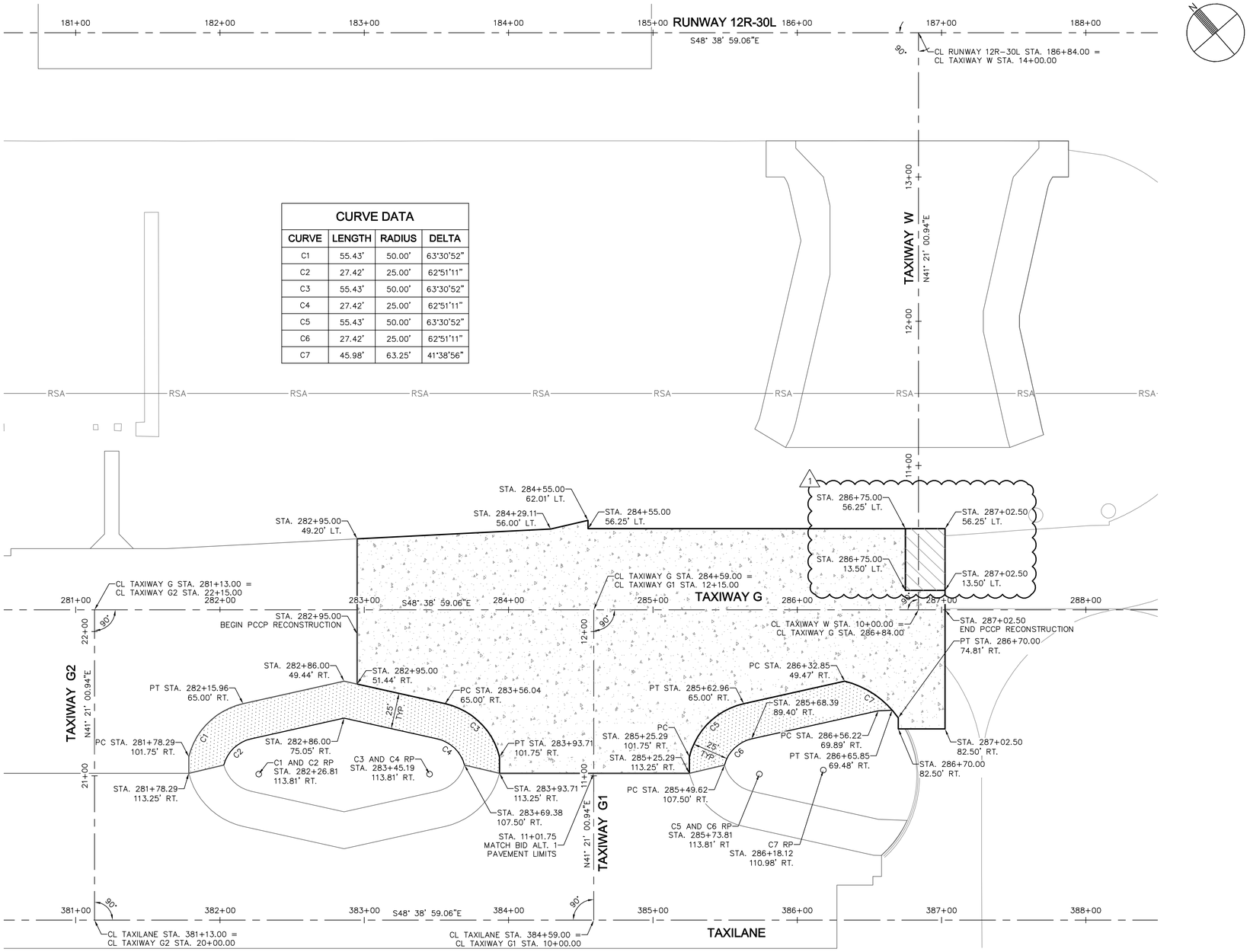

CURVE DATA

CURVE	LENGTH	RADIUS	DELTA
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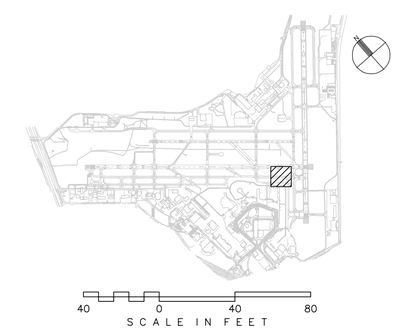
C3	55.43'	50.00'	63°30'52"
C4	27.42'	25.00'	62°51'11"
C5	55.43'	50.00'	63°30'52"
C6	27.42'	25.00'	62°51'11"
C7	45.98'	63.25'	41°38'56"

LEGEND

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

GENERAL NOTES

1. REFER TO SHEET C1.12 HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.



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GEOMETRIC
LAYOUT PLAN
BID ALT. 3

C5.6

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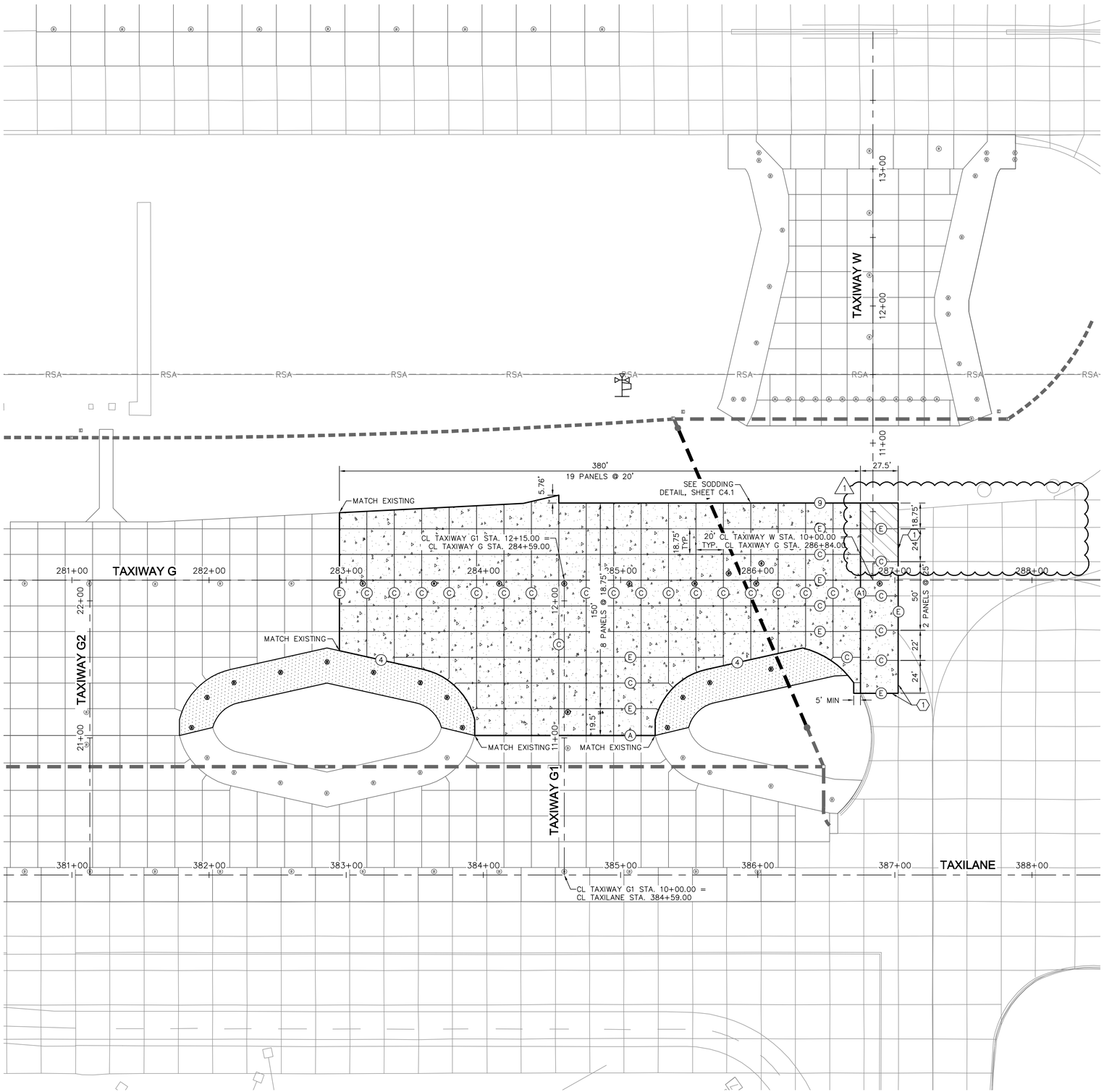


LEGEND

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

(A) JOINT TYPE A, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(A1) JOINT TYPE A1, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(C) JOINT TYPE C, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(E) JOINT TYPE E, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(4) EDGE SEAL TYPE 4, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(9) JOINT TYPE 9, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

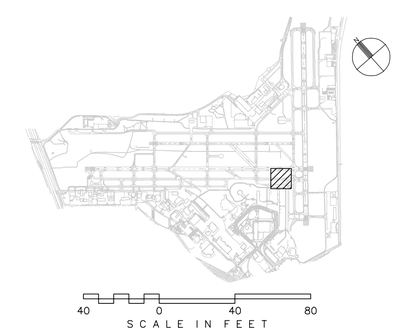
GENERAL NOTES

1. REFER TO SHEET C1.12 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 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 C7.3

CONSTRUCTION NOTES

(1) SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION

(2) REFER TO ELECTRICAL PLANS (SERIES E)



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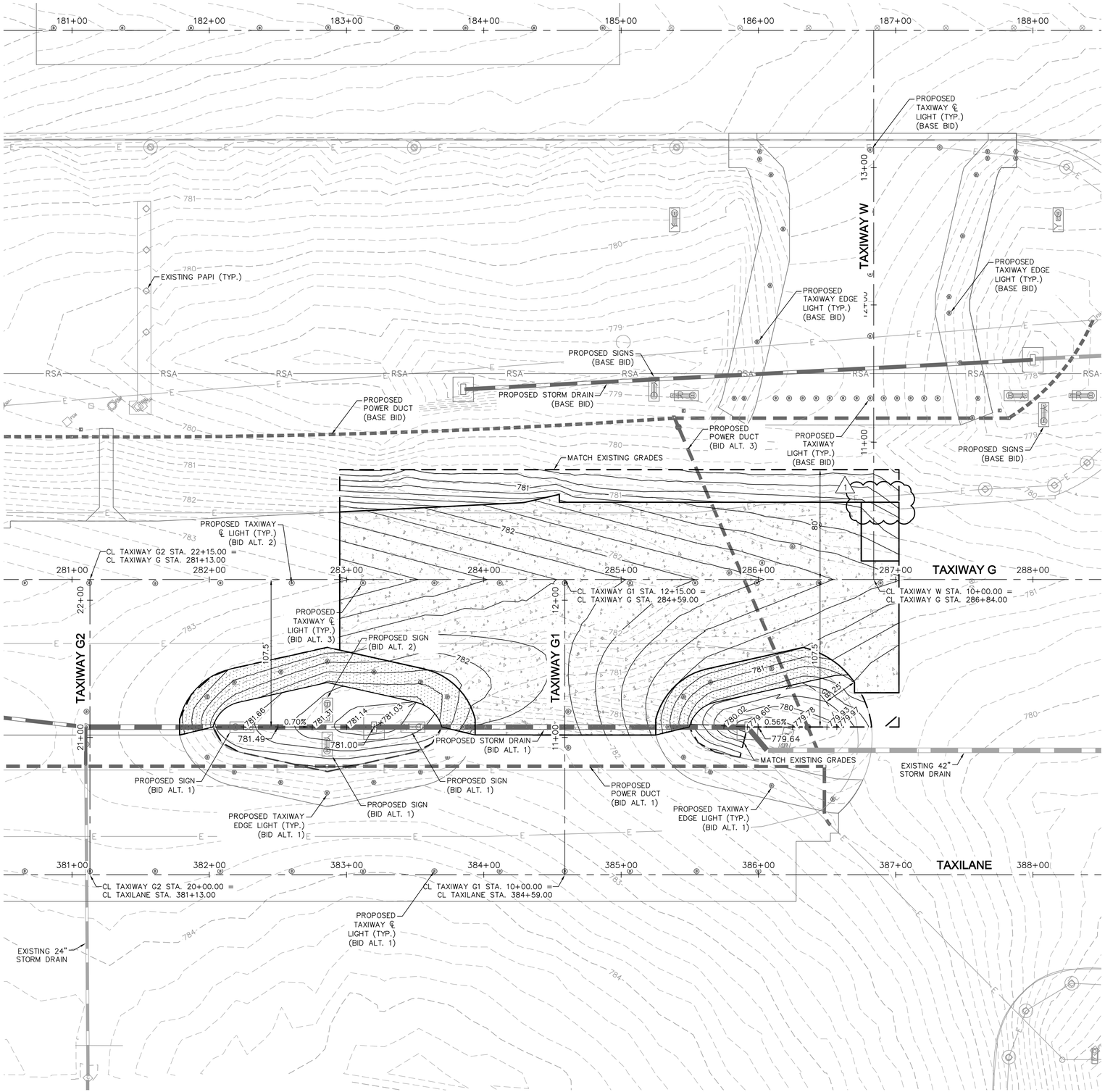
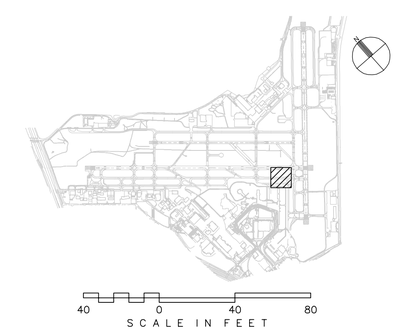


LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE PAPI ROAD PAVEMENT
- GRADING LIMITS
- +XXX.XX PROPOSED SPOT ELEVATION

GENERAL NOTES

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
2. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
3. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.
4. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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 REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER

08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE:	-
PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CG-101-A03
DRAWN BY:	CAD
CHECKED BY:	MAN
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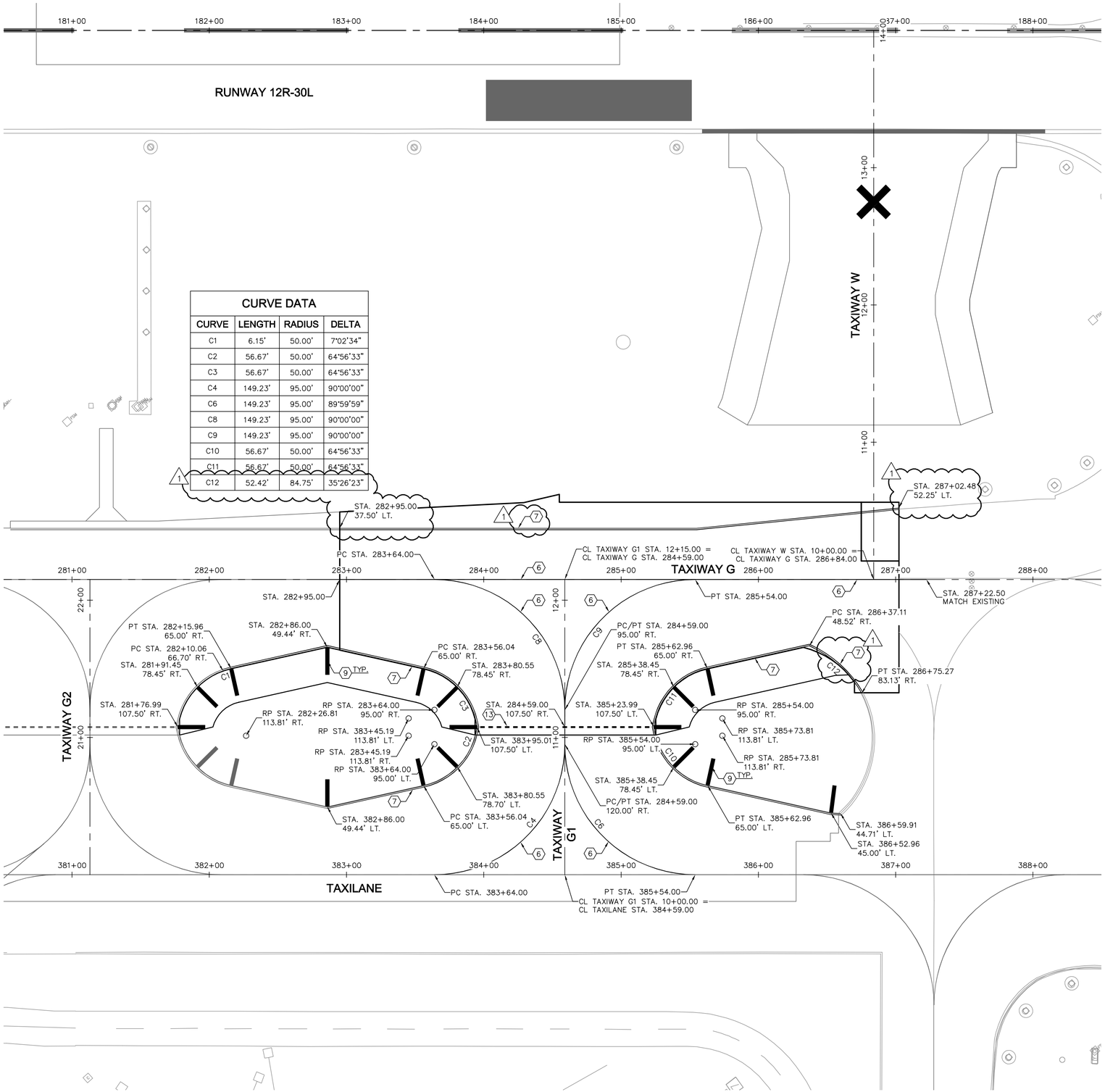
SHEET TITLE:

GRADING AND DRAINAGE PLAN BID ALT. 3

C9.12

K:\PHX_Aviation\191629001- San Antonio\CADD_33-00193-R1CG-101-A03.dwg Jul 22, 2013 Crawford, Pat



CURVE DATA

CURVE	LENGTH	RADIUS	DELTA
C1	6.15'	50.00'	7°02'34"
C2	56.67'	50.00'	64°56'33"
C3	56.67'	50.00'	64°56'33"
C4	149.23'	95.00'	90°00'00"
C6	149.23'	95.00'	89°59'59"
C8	149.23'	95.00'	90°00'00"
C9	149.23'	95.00'	90°00'00"
C10	56.67'	50.00'	64°56'33"
C11	56.67'	50.00'	64°56'33"
C12	52.42'	84.75'	35°26'23"

LEGEND

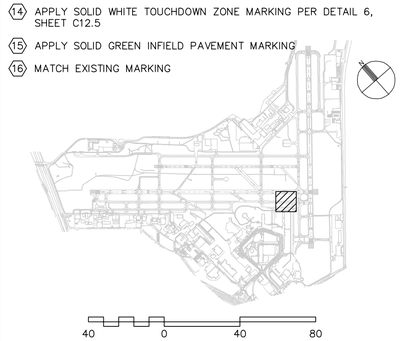
- RUNWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY TOUCHDOWN ZONE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- SOLID GREEN INFIELD PAVEMENT MARKING

GENERAL NOTES

1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE CURING MATERIALS FROM THE PCCP PRIOR TO THE APPLICATION OF MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE DOUBLE APPLICATION OF ALL NEW PAVEMENT MARKINGS (2 COATS)
5. ALL PERMANENT MARKINGS, LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
6. EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL MARKINGS THAT WILL BE RE-STRIPED ON THIS PROJECT, HOWEVER ADDITIONAL MARKINGS MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.
8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

1. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 1, SHEET C12.4
2. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 2, SHEET C12.4
3. APPLY SOLID WHITE RUNWAY AIMING POINT PAVEMENT MARKING WITH SIX INCH (6") BLACK BORDER
4. APPLY SOLID WHITE RUNWAY DESIGNATION MARKING WITH SIX INCH (6") BLACK BORDER PER DETAIL 5, SHEET C12.5
5. APPLY ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING PER DETAIL 6, SHEET C12.4
6. APPLY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 3, SHEET C12.4
7. APPLY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 4, C12.4
8. REFER TO DETAIL 1, SHEET C12.5 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
9. APPLY THIRTY-SIX INCH (36") WIDE SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKING PER DETAIL 5, SHEET C12.4
10. APPLY SOLID YELLOW CLOSED TAXIWAY PAVEMENT MARKING PER DETAIL 2, SHEET C12.5
11. APPLY SURFACE PAINTED HOLD POSITION SIGN PER DETAIL 3, SHEET C12.5
12. APPLY BLACK PAINT TO PCC PAVEMENT THAT LIES OUTSIDE OF TAXIWAY EDGE MARKINGS (NPI)
13. APPLY DASHED YELLOW INTERMEDIATE HOLDING POSITION MARKING PER DETAIL 4, SHEET C12.5
14. APPLY SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 6, SHEET C12.5
15. APPLY SOLID GREEN INFIELD PAVEMENT MARKING
16. MATCH EXISTING MARKING



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley-Horn and Associates, Inc.
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PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE:	-
PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CM-101-A03
DRAWN BY:	CAD
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SHEET TITLE:

PAVEMENT MARKING PLAN BID ALT. 3

C12.9

SHEET NO. 151 OF 214

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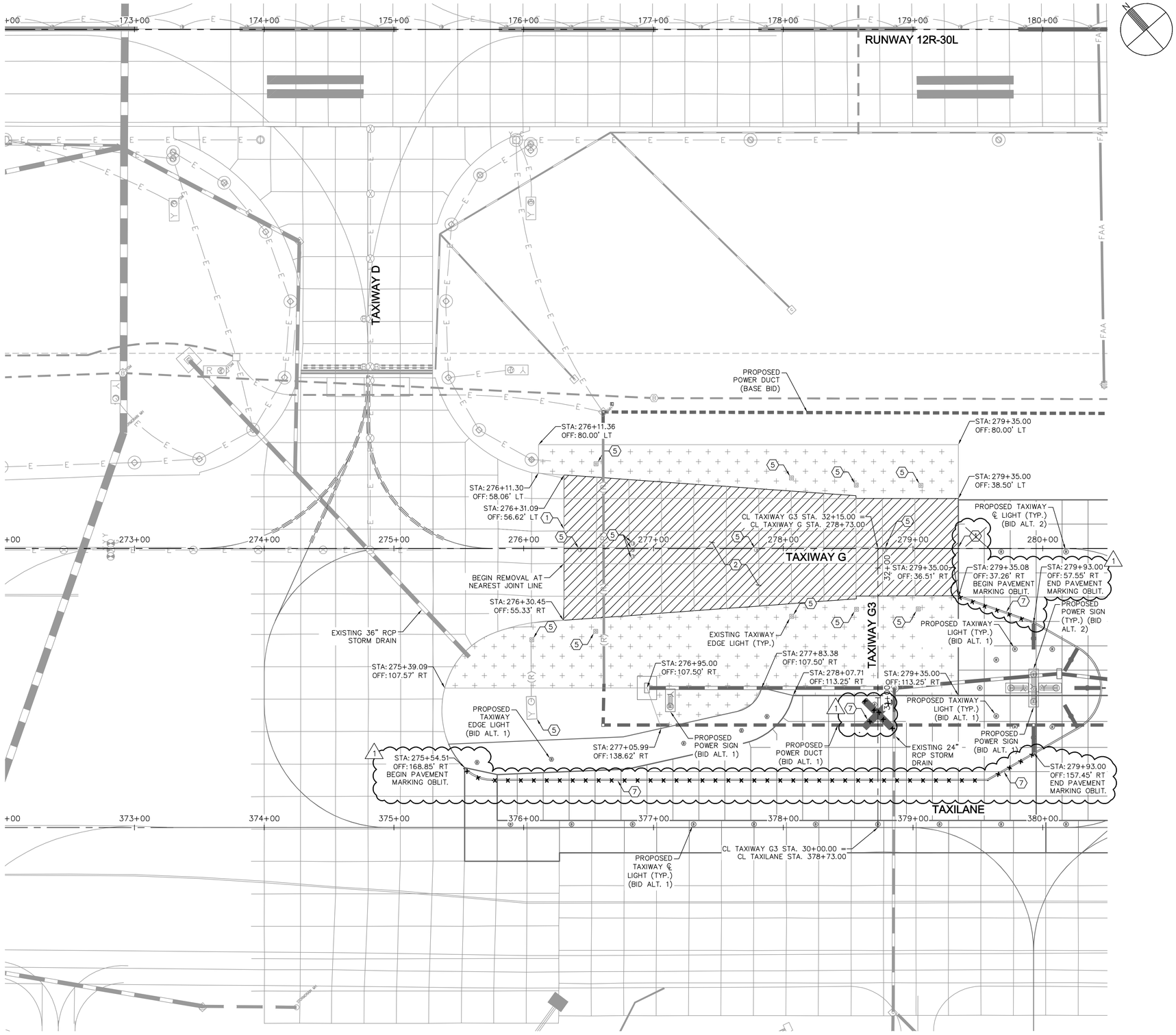


LEGEND

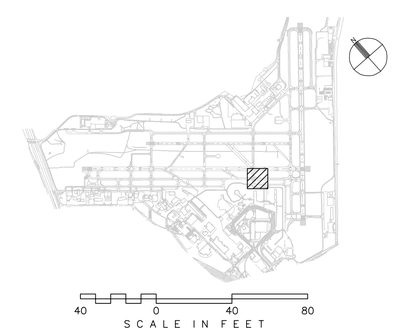
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- PAVEMENT MARKING OBLITERATION

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 C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.

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



CITY OF SAN ANTONIO AVIATION DEPARTMENT

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PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER

08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE: -

PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CD-101-A04
DRAWN BY:	CAD
CHECKED BY:	MAN
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SHEET TITLE:

DEMOLITION PLAN
BID ALT. 4

C3.8

SHEET NO. 166 OF 214

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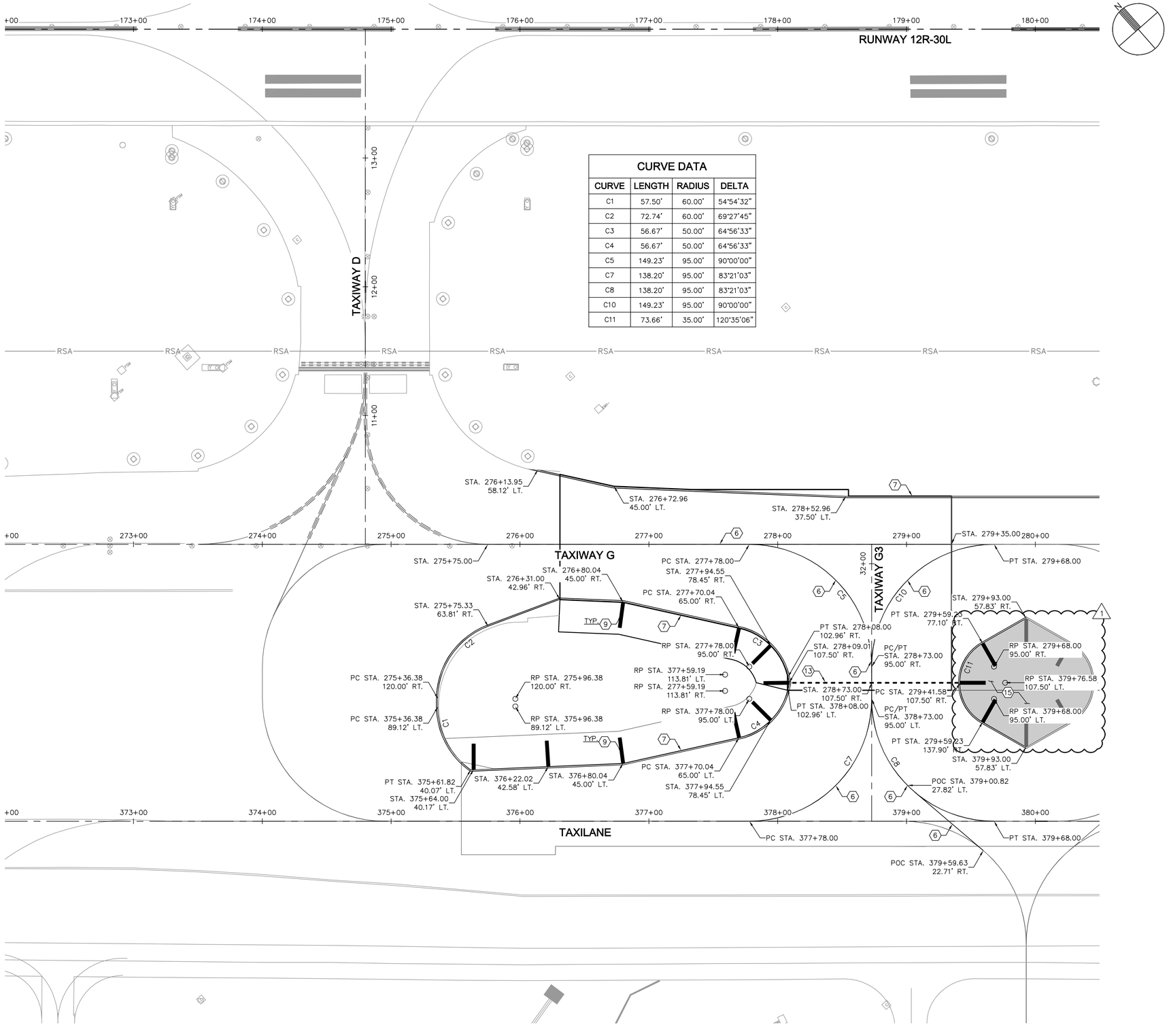

CURVE DATA

CURVE	LENGTH	RADIUS	DELTA
C1	57.50'	60.00'	54°54'32"
C2	72.74'	60.00'	69°27'45"
C3	56.67'	50.00'	64°56'33"
C4	56.67'	50.00'	64°56'33"
C5	149.23'	95.00'	90°00'00"
C7	138.20'	95.00'	83°21'03"
C8	138.20'	95.00'	83°21'03"
C10	149.23'	95.00'	90°00'00"
C11	73.66'	35.00'	120°35'06"

LEGEND

- RUNWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY TOUCHDOWN ZONE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- SOLID GREEN INFIELD PAVEMENT MARKING (1)

GENERAL NOTES

1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE CURING MATERIALS FROM THE PCCP PRIOR TO THE APPLICATION OF MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
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7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.
8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

1. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 1, SHEET C12.4
2. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 2, SHEET C12.4
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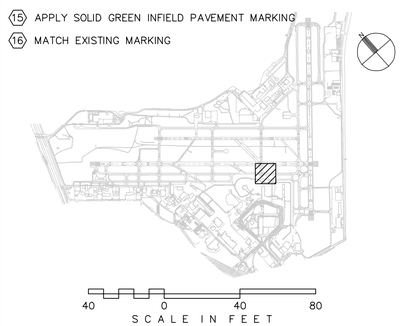
15. APPLY SOLID GREEN INFIELD PAVEMENT MARKING
16. MATCH EXISTING MARKING



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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 REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE: -

PROJECT NO: 33-00178 and 33-00193
FILE NAME: _33-00193-R1CM-101-A04
DRAWN BY: CAD
CHECKED BY: MAN
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SHEET TITLE:

PAVEMENT MARKING PLAN BID ALT. 4

C12.10

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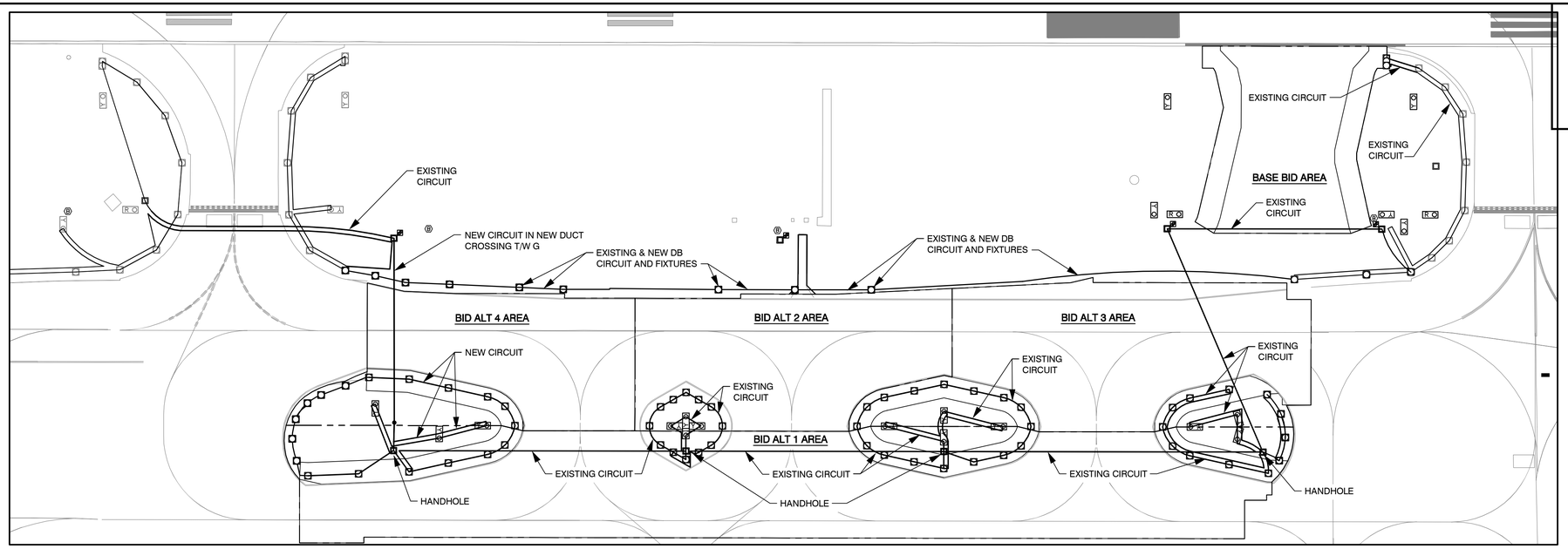
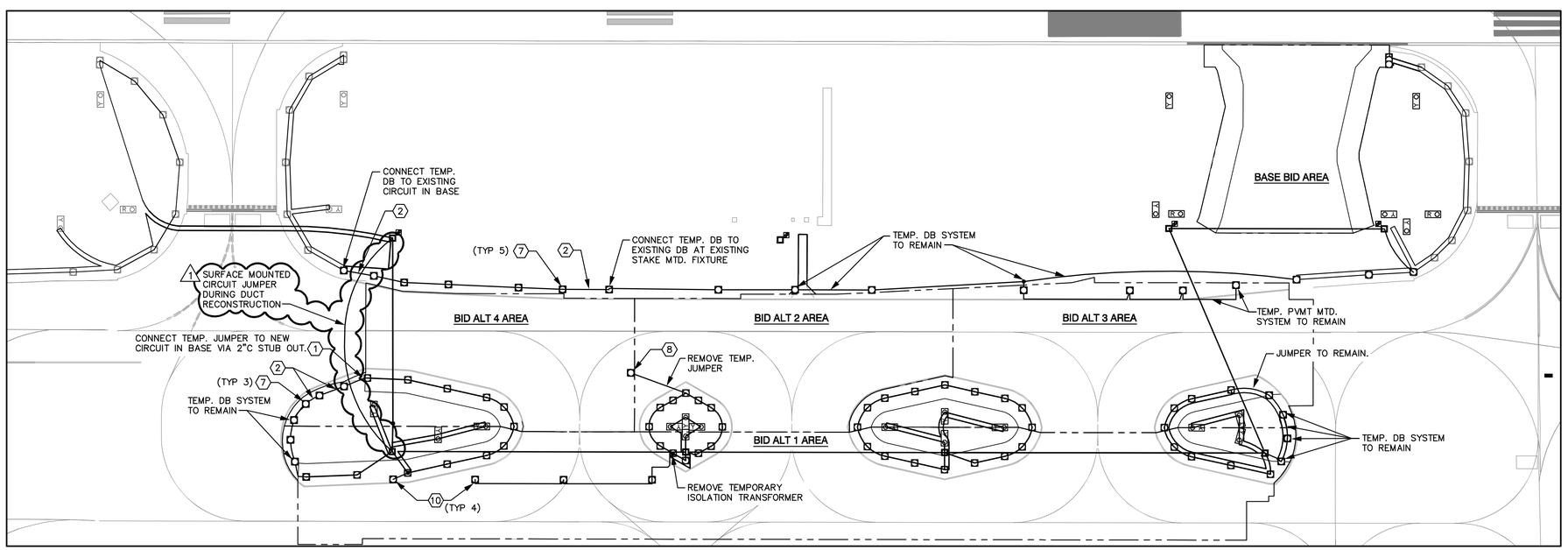


CIRCUIT DEFINITION		
CABLE SIZE	CABLE TYPE	DESCRIPTION
#8	L-824 5kV TYPE C	AIRFIELD LIGHTING PER L-108
TOTAL CIRCUIT LENGTH INSTALLED IN BID ALT 4		1,100

BID ALT 4 - CIRCUIT INSTALLED IN THIS PHASE

N.T.S.



BID ALT 4 - TEMPORARY FIXTURES, JUMPERS AND CABLES

N.T.S.

SIGN SHEET NOTES

1. TEMPORARY JUMPER, L-824, TYPE C, 1/C #6, 5 KV CABLE IN CONDUIT.
2. LONG TERM TEMPORARY DIRECT BURIED L-824, TYPE C, 1/C #6, 5 KV CABLE.
7. INSTALL LONG TERM TEMPORARY STAKE MOUNTED TAXIWAY EDGE. SEE DETAILS E3.13.
8. REMOVE LONG TERM TEMPORARY STAKE MOUNTED TAXIWAY EDGE LIGHT.
10. REMOVE LONG TERM TEMPORARY PAVEMENT MOUNTED TAXIWAY EDGE LIGHT. ABANDON SECONDARY CABLES PER DETAIL ON E3.13.

75 0 75 150
SCALE IN FEET

300 0 300 600
SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley-Horn and Associates, Inc.
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SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

STATE OF TEXAS
ERIC C. LOVEJOY
84061
LICENSED
PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION
1	08/06/13	ADD No. 1: JUMPER ACROSS T/W G

ISSUE: ----

PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1EC-646
DRAWN BY:	CMP
CHECKED BY:	ECL
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SHEET TITLE:

CIRCUIT MAPS
T/W EDGE G3
(CKT 6)
BID ALT. 4

E4.6

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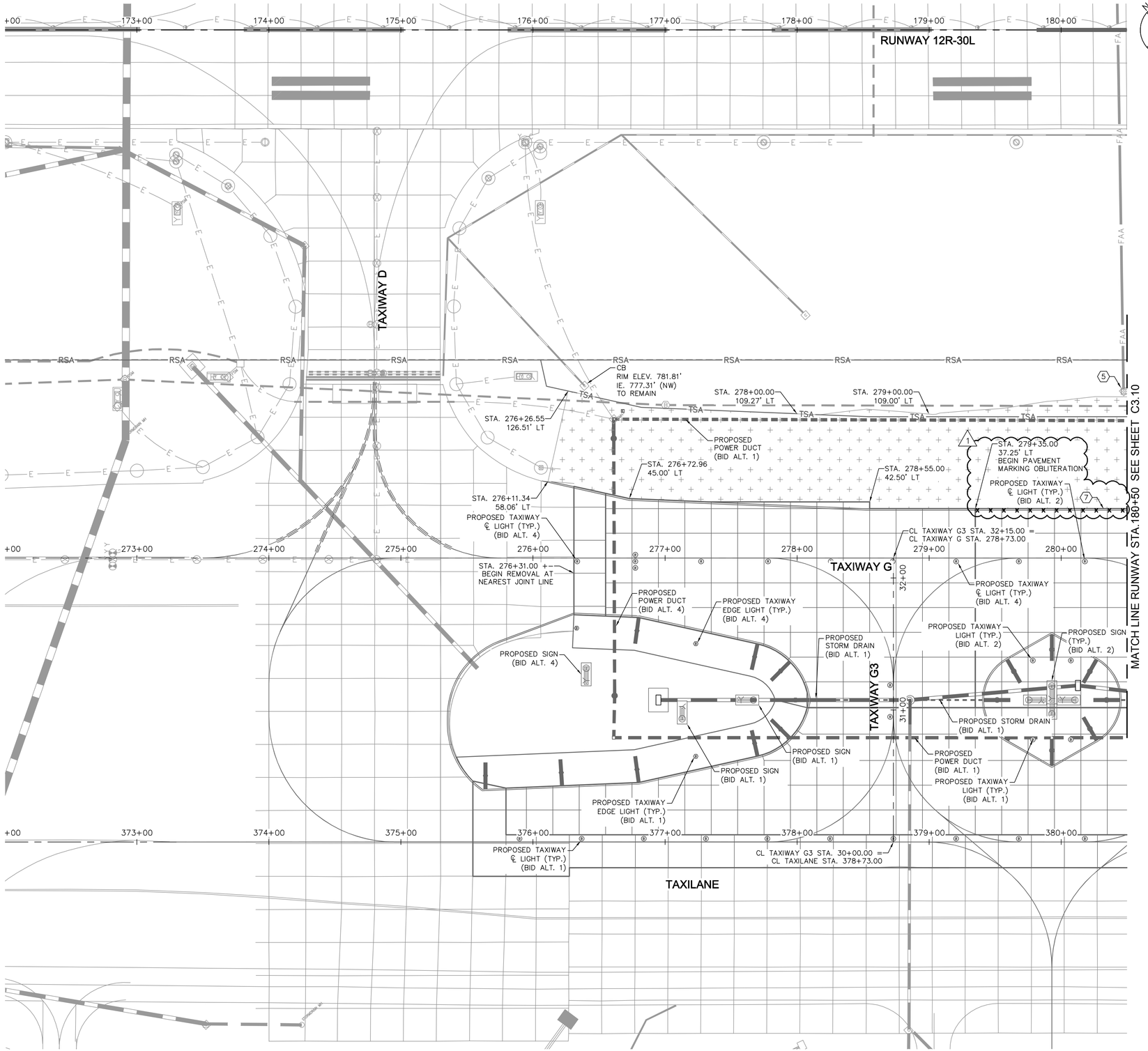


LEGEND

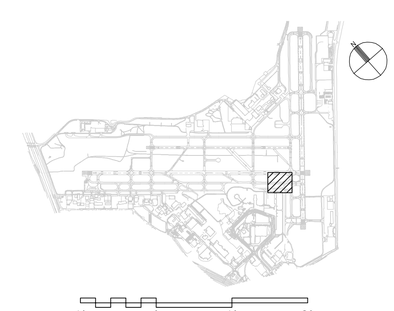
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P–101)
- PAVEMENT MARKING OBLITERATION

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 C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.

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



40 0 40 80
SCALE IN FEET

CITY OF
SAN ANTONIO
AVIATION
DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE:	-
PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CD-101-A05
DRAWN BY:	CAD
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SHEET TITLE:

DEMOLITION PLAN
BID ALT. 5

C3.9
SHEET NO. 187 OF 214

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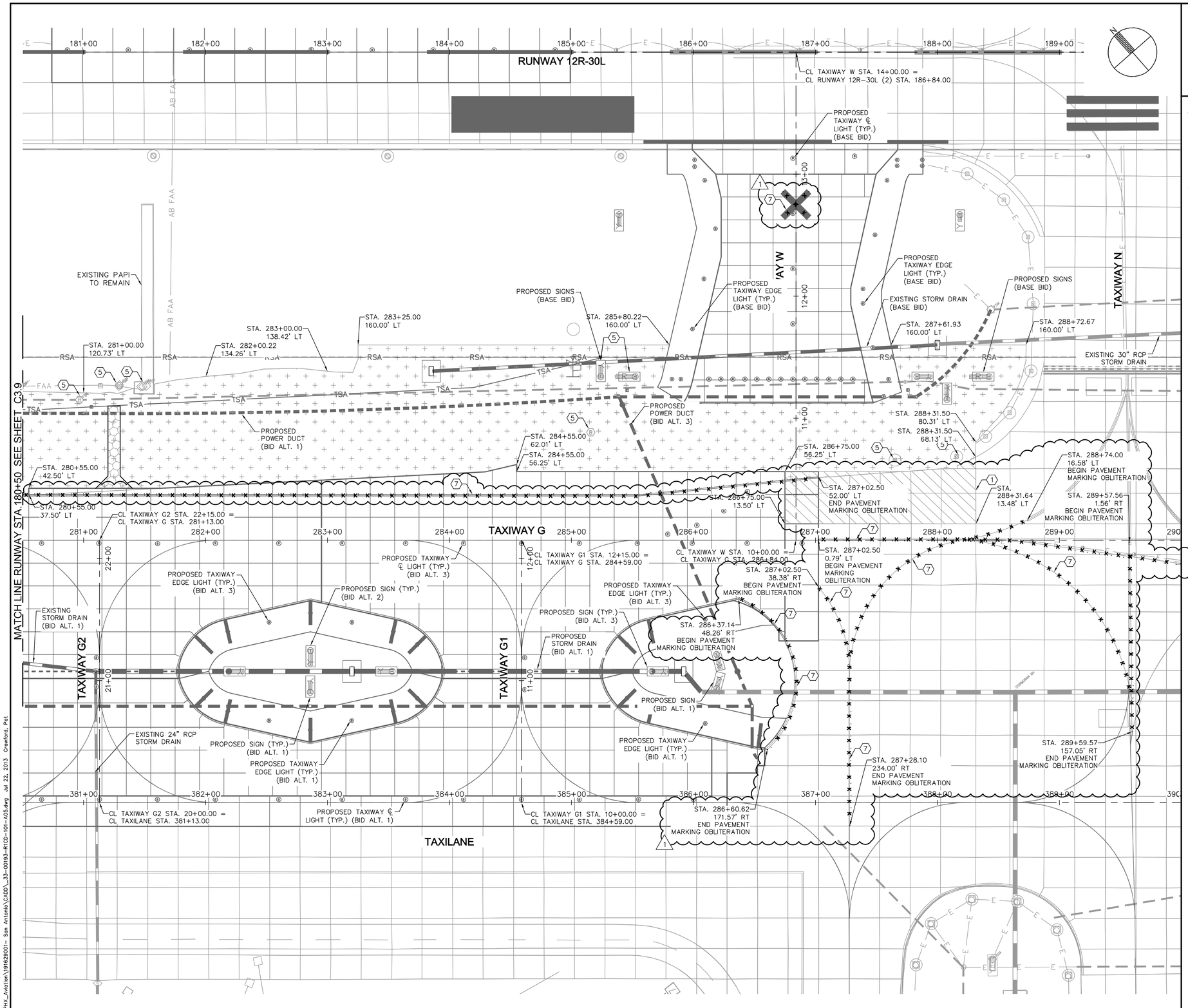


LEGEND

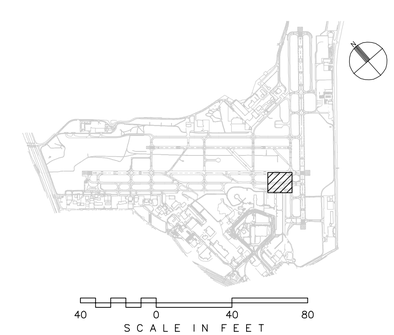
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- PAVEMENT MARKING OBLITERATION

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 C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.

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



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SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

RUNWAY 12R-30L REHABILITATION AND TERMINAL AREA TAXIWAY IMPROVEMENTS (PACKAGE 1)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
08/02/13

MARK	DATE	DESCRIPTION
1	08/02/13	ADDENDUM 1

ISSUE:	-
PROJECT NO:	33-00178 and 33-00193
FILE NAME:	_33-00193-R1CD-101-A05
DRAWN BY:	CAD
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SHEET TITLE:

DEMOLITION PLAN
BID ALT. 5

C3.10

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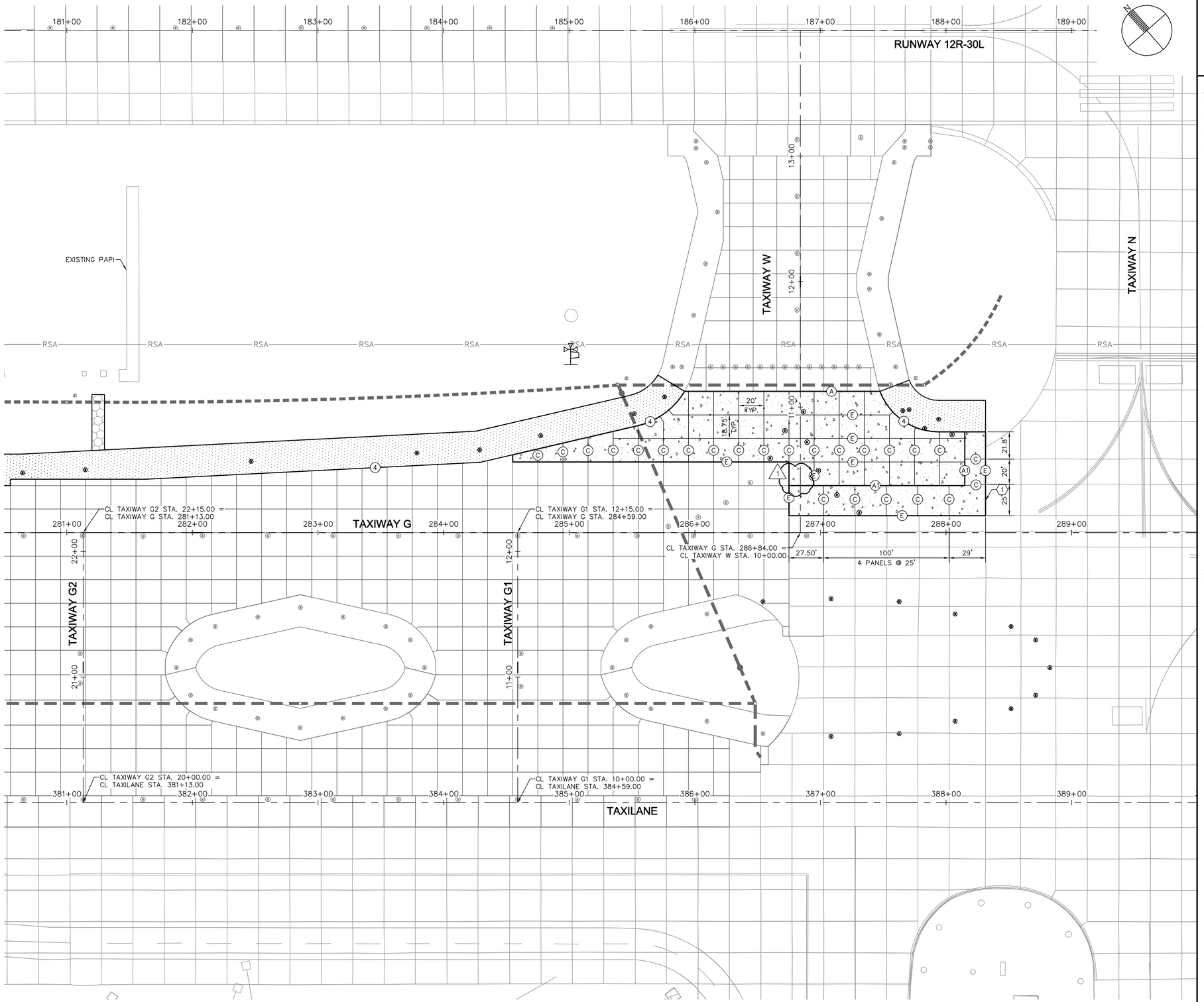


LEGEND

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

(A) JOINT TYPE A, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(A1) JOINT TYPE A1, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(C) JOINT TYPE C, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(E) JOINT TYPE E, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(4) EDGE SEAL TYPE 4, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

(9) JOINT TYPE 9, REFER TO SHEET C7.3 FOR PAVEMENT JOINT DETAILS

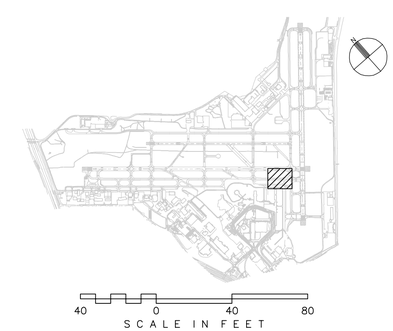
GENERAL NOTES

1. REFER TO SHEET C1.12 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 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 C7.3

CONSTRUCTION NOTES

(1) SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION

(2) REFER TO ELECTRICAL PLANS (SERIES E)



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley-Horn and Associates, Inc.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
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PAVEMENT JOINT LAYOUT PLAN BID ALT. 5

C7.9

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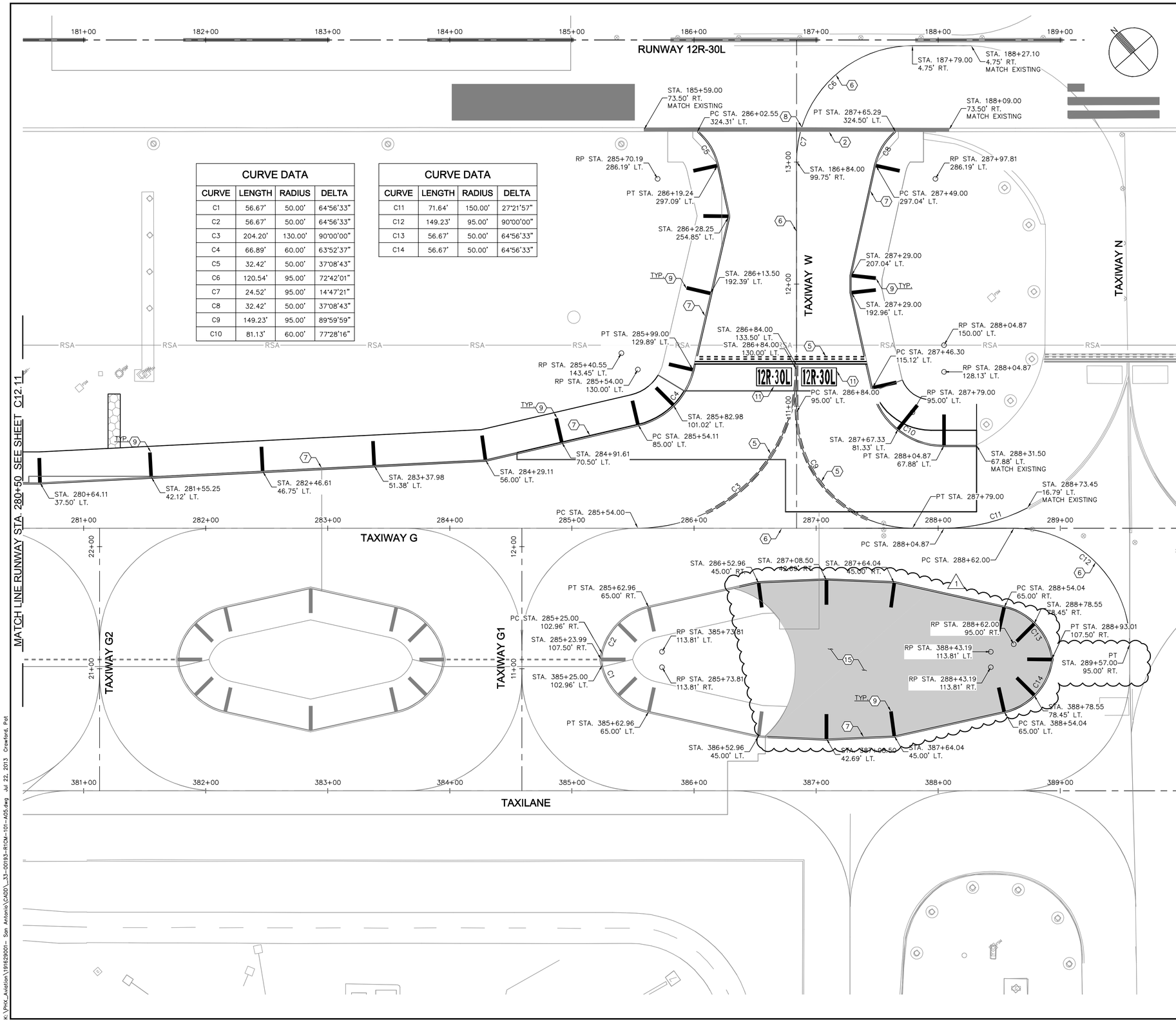


CURVE DATA			
CURVE	LENGTH	RADIUS	DELTA
C1	56.67'	50.00'	64°56'33"
C2	56.67'	50.00'	64°56'33"
C3	204.20'	130.00'	90°00'00"
C4	66.89'	60.00'	63°52'37"
C5	32.42'	50.00'	37°08'43"
C6	120.54'	95.00'	72°42'01"
C7	24.52'	95.00'	14°47'21"
C8	32.42'	50.00'	37°08'43"
C9	149.23'	95.00'	89°59'59"
C10	81.13'	60.00'	77°28'16"

CURVE DATA			
CURVE	LENGTH	RADIUS	DELTA
C11	71.64'	150.00'	27°21'57"
C12	149.23'	95.00'	90°00'00"
C13	56.67'	50.00'	64°56'33"
C14	56.67'	50.00'	64°56'33"

LEGEND

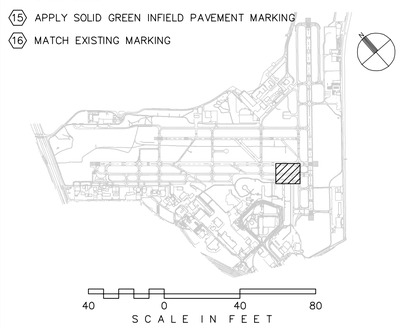
- RUNWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY TOUCHDOWN ZONE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- SOLID GREEN INFIELD PAVEMENT MARKING

GENERAL NOTES

1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE CURING MATERIALS FROM THE PCCP PRIOR TO THE APPLICATION OF MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE DOUBLE APPLICATION OF ALL NEW PAVEMENT MARKINGS (2 COATS)
5. ALL PERMANENT MARKINGS, LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
6. EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL MARKINGS THAT WILL BE RE-STRIPED ON THIS PROJECT, HOWEVER ADDITIONAL MARKINGS MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.
8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.12 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

1. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 1, SHEET C12.4
2. APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 2, SHEET C12.4
3. APPLY SOLID WHITE RUNWAY AIMING POINT PAVEMENT MARKING WITH SIX INCH (6") BLACK BORDER
4. APPLY SOLID WHITE RUNWAY DESIGNATION MARKING WITH SIX INCH (6") BLACK BORDER PER DETAIL 5, SHEET C12.5
5. APPLY ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING PER DETAIL 6, SHEET C12.4
6. APPLY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 3, SHEET C12.4
7. APPLY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 4, C12.4
8. REFER TO DETAIL 1, SHEET C12.5 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
9. APPLY THIRTY-SIX INCH (36") WIDE SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKING PER DETAIL 5, SHEET C12.4
10. APPLY SOLID YELLOW CLOSED TAXIWAY PAVEMENT MARKING PER DETAIL 2, SHEET C12.5
11. APPLY SURFACE PAINTED HOLD POSITION SIGN PER DETAIL 3, SHEET C12.5
12. APPLY BLACK PAINT TO PCC PAVEMENT THAT LIES OUTSIDE OF TAXIWAY EDGE MARKINGS (NPI)
13. APPLY DASHED YELLOW INTERMEDIATE HOLDING POSITION MARKING PER DETAIL 4, SHEET C12.5
14. APPLY SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 6, SHEET C12.5
15. APPLY SOLID GREEN INFIELD PAVEMENT MARKING
16. MATCH EXISTING MARKING



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PAVEMENT MARKING PLAN BID ALT. 5

C12.12

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F) DISQUALIFYING CRIMINAL OFFENSES

Check any of the disqualifying criminal offense if you have been convicted, or found not guilty of by reason of insanity, of any of the disqualifying crimes listed below in any jurisdiction during the 10 years before the date of the individual's application for unescorted access authority, or while the individual has unescorted access authority. The disqualifying criminal offenses are as follows:

CRIMINAL OFFENSE	Convicted
1. Forgery of certificates, false marking of aircraft, and other aircraft registration violation; 49 U.S.C. 46306.	☐
2. Interference with air navigation; 49 U.S.C. 46308.	☐
3. Improper transportation of a hazardous material; 49 U.S.C. 46312.	☐
4. Aircraft piracy; 49 U.S.C. 46502.	☐
5. Interference with flight crew members or flight attendants; 49 U.S.C. 46504.	☐
6. Commission of certain crimes aboard aircraft in flight; 49 U.S.C. 46506.	☐
7. Carrying a weapon or explosive aboard an aircraft; 49 U.S.C. 46505.	☐
8. Conveying false information and threats; 49 U.S.C. 46507.	☐
9. Aircraft piracy outside the special aircraft jurisdiction of the United States; 49 U.S.C. 46502(b).	☐
10. Lighting violations involving transporting controlled substances; 49 U.S.C. 46315.	☐
11. Unlawful entry into an aircraft or airport area that serves air carriers or foreign air carriers contrary to established security requirements; 49 U.S.C. 46314.	☐
12. Destruction of an aircraft or aircraft facility; 18 U.S.C. 32.	☐
13. Murder	☐
14. Assault with intent to murder.	☐
15. Espionage.	☐
16. Sedition.	☐
17. Kidnapping or hostage taking.	☐
18. Treason.	☐
19. Rape or aggravated sexual abuse.	☐
20. Unlawful possession, use, sale, distribution, or manufacture of an explosive or weapon.	☐
21. Extortion.	☐
22. Armed or felony unarmed robbery.	☐
23. Distribution of, or intent to distribute, a controlled substance.	☐
24. Felony arson.	☐
25. Felony involving a threat.	☐
26. Felony involving—	☐
(i) Willful destruction of property;	☐
(ii) Importation or manufacture of a controlled substance;	☐
(iii) Burglary;	☐
(iv) Theft;	☐
(v) Dishonesty, fraud, or misrepresentation;	☐
(vi) Possession or distribution of stolen property;	☐
(vii) Aggravated assault;	☐
(viii) Bribery; or	☐
(ix) Illegal possession of a controlled substance punishable by a maximum term of imprisonment of more than 1 year.	☐
27. Violence at international airports; 18 U.S.C. 37.	☐
28. Conspiracy or attempt to commit any of the criminal acts listed in this paragraph.	☐

Initial here that you have read and completed this page: _____