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- 1) Addendum Number Four (4) Acknowledgement Form
- 2) '025 UNIT PRICING FORM', dated June 10, 2016, Addendum No. 4
- 3) '025 UNIT PRICING FORM' (Electronic Spreadsheet), dated June 10, 2016, Addendum No. 4
- 4) '060 Supplemental Conditions', dated June 10, 2016, Addendum No. 4
- 5) Revised Plan Sheet drawings (10 sheets)
- 6) Image Depicting Available Equipment Storage Area,



06/13/2016

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A Base plates are part of the fixture assembly.

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A Blank covers (L-867 & L-868) have their own bid items under Item L-867/868.

AMMA
A There is not a count for the different conditions of the bases for the runway centerline lights. The quantities shown are approximate. During construction the quantities for the various installation methods will be tracked and adjusted.

AMMA
A 025 Unit Pricing Form has been adjusted as part of this addendum.

AMMA
A You are correct the detail should read 9'. Plans have been inserted in this Addendum to address this.

AMMA
A Modifications have been made to section "060 Supplemental Conditions" and three plans sheets as distributed in this Addendum.

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A No – Alternate 2 must be completed separate. Modifications were made and distributed in this Addendum.

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A No – Parking will be at the staging area that is to be determined.

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A Existing Concrete and Cement Treated Base can be stored within the project phase limits (Meeting height requirements) until such a time that they are hauled off site.

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A It is anticipated that this award will go to City council at the beginning of October 2016. This would allow for an administrative NTP “1” to be provided to the contractor in mid-October. NTP “2 will be issued to begin Construction on January 3, 2017.

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A I have attached a drawing that depicts one of these areas that is still available for storage of equipment etc. However, it is not large enough for a full staging area. In addition, if this area is used, the contractor has to perform test on the soil based on the Aviation Soil Management Plan to establish the baseline for the site before the site is used. It is the Contractors responsibility at the end of the project, to return the site back to the original condition.

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**BASE BID
ELECTRIC**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

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	Contractor Staging Area	Allow	1	0,00	0,00	
3	100.3	Insurance and Bonds	LS	1		\$ -	
4	100.4	Airside Safety and Security / Traffic Control	LS	1		\$ -	
5	101.1	Preparing Right-of-Way	LS	1		\$ -	
6	540.1	Storm Water Pollution Prevention Plan	LS	1		\$ -	
7	GP 60-05	Field Office and Curing Facilities	LS	1		\$ -	
8	P-100-2.1	Contractor Quality Control	LS	1		\$ -	
9	L-100-5.1	ALCMS Modifications (Manufacturer Allowance)	LS	1.00		\$ -	
10	L-100-5.2	ALCMS Modifications Contractor Effort	LS	1.00		\$ -	
11	L-100-5.3	Electrical Demolition	LS	0.40		\$ -	
12	L-100a-3.1	Photometric Testing	LS	1.00		\$ -	
13	L-105-6.1	Base Bid Rwy 13R-31L Temporary Jumpers, Lighting and Signage	LS	1		\$ -	
14	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	18,500		\$ -	
15	L-108-5.2	L-824, Type C, 1/C #6, 5 kV Cable	LF	89,400		\$ -	
16	L-108-5.3	Bare, 1/C #6, Counterpoise Wire	LF	3,100		\$ -	
17	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,140		\$ -	
18	L-110-5.3	Multiple-way (6) 2-inch Conduits, Direct Buried	LF	350		\$ -	
19	L-110-5.4	Multiple-way (8) 2-inch Conduits, Direct Buried	LF	510		\$ -	
20	L-110-5.7	Multiple-way (6) 2-inch HDPE Conduits, Directional Bored	LF	700		\$ -	
21	L-110-5.8	Multiple-way (8) 2-inch HDPE Conduits, Directional Bored	LF	360		\$ -	
22	L-111-5.1	Furnish and Install Packaged 480/277 Volt Engine Generator, Controls and Exhaust System for West ALV	LS	1		\$ -	
23	L-111-5.2	Remove and Dispose of Existing 480V West ALV Engine Generator, Controls, and Exhaust System	LS	1		\$ -	
24	L-111-5.3	Furnish Temporary Engine Generator	WK	2		\$ -	
25	L-115-5.1	New Concrete Handhole, Type I, Furnished & Installed	EA	7		\$ -	
26	L-115-5.3	Two-Can Junction Can Plaza, Furnished & Installed	EA	7		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**BASE BID
ELECTRIC**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
27	L-850-4.1	New In-pavement L-850A Runway Centerline Light with New Isolation Transformers on Existing or Modified Base	EA	168		\$ -	
28	L-850-4.2	Salvage and Reinstall In-pavement L-850B Runway TDZ Light with New Isolation Transformer on Existing Base	EA	180		\$ -	
29	L-850-4.3	Salvage and Reinstall In-pavement L-850C Runway Edge Light with New Isolation Transformer on New or Existing Base	EA	14		\$ -	
30	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		\$ -	
31	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		\$ -	
32	L-862-4.1	Salvage and Reinstall Elevated L-862 Runway Edge Light with New Isolation Transformer on Existing Base	EA	74		\$ -	
33	L-862-4.2	Salvage and Reinstall Elevated L-862E Runway Threshold/End Light with New Isolation Transformer on Existing Base	EA	16		\$ -	
34	L-867/868-6.2	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in Non-Paved Shoulder	EA	2		\$ -	
35	L-867/868-6.5	New Size "B" L-867 Blank Base Can Cover	EA	4		\$ -	
36	L-867/868-6.7	New Size "B" L-868 Flange Ring and Spacer	EA	168		\$ -	
37	L-867/868-6.8	Core Drill Replace L-868 in (E) PCCP	EA	80		\$ -	
38	L-867/868-6.9	Core Drill L-868 Extension in (E) PCCP	EA	20		\$ -	
39	L-867/868-6.12	Concrete Foundation for 3-Module Sign	EA	1		\$ -	

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ELECTRIC**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
40	L-867/868-6.13	Concrete Foundation for 4-Module Sign	EA	2		\$ -	
Total 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.

_____ Acknowledged 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 Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**BASE BID
TWY J**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

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	Contractor Staging Area	Allow	1	\$ 200,000.00	\$ 200,000.00	
3	100.3	Insurance and Bonds	LS	1		\$ -	
4	100.4	Airside Safety and Security / Traffic Control	LS	1		\$ -	
5	101.1	Preparing Right-of-Way	LS	1		\$ -	
6	540.1	Storm Water Pollution Prevention Plan	LS	1		\$ -	
7	GP 60-05	Field Office and Curing Facilities	LS	1		\$ -	
8	P-100-2.1	Contractor Quality Control	LS	1		\$ -	
9	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	2,650		\$ -	
10	P-101-5.3	Cement-Treated Base Removal	SY	2,650		\$ -	
11	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	382		\$ -	
12	P-151-4.1	Clearing and Grubbing	AC	2.08		\$ -	
13	P-151-4.3	Remove Existing Catch Basin or Manhole	EA	2		\$ -	
14	P-152-4.1	Unclassified Excavation (Estimated)	CY	4,120		\$ -	
15	P-155-8.1	Lime-Treated Subgrade, 6" Depth (P-155)	SY	4,670		\$ -	
16	P-155-8.2	Lime	TON	100		\$ -	
17	P-208-5.1	Aggregate Base Course, 13" Depth (P-208)	SY	660		\$ -	
18	P-208-5.1	Temporary Aggregate Base Course, 8" Depth (P-208)	SY	170		\$ -	
19	P-304-8.1	Cement-Treated Base Course, 8" Depth (P-304)	SY	1,500		\$ -	
20	P-304-8.2	Cement-Treated Base Course, 16" Depth (P-304)	SY	3,200		\$ -	
21	P-401-8.1	Temporary HMA Pavement (5" Surface Course)	TON	50		\$ -	
22	P-403-8.1	HMA Pavement (3" Surface Course)	TON	240		\$ -	
23	P-403-8.2	Temporary HMA Pavement (9" Base Course)	TON	80		\$ -	
24	P-501-8.1	Portland Cement Concrete Pavement, 16" Depth	SY	3,000		\$ -	
25	P-604-6.1	Preformed Sealer, 1/2-inch Joint	LF	3,350		\$ -	
26	P-604-6.2	Preformed Sealer, 1-inch Joint	LF	310		\$ -	
27	P-604-6.3	Hot Applied Edge Seal	LF	480		\$ -	
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	1,810		\$ -	
29	P-620-5.2	Reflective White Runway Pavement Markings, Waterborne	SF	900		\$ -	
30	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	2,620		\$ -	
31	P-620-5.4	Reflective Surface Painted Holding Position Signs, Waterborne	SF	860		\$ -	
32	P-620-5.5	Pavement Marking Obliteration	SF	2,120		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

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**BASE BID
TWY J**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
33	P-620-5.6	Temporary Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	490		\$ -	
34	T-904-5.1	Sodding, 2" Depth (T-904)	SY	10,040		\$ -	
35	T-905-5.1	Top Soil, 2" Depth (T-905)	CY	560		\$ -	
36	D-705-5.1	Underdrain System	LS	1		\$ -	
37	D-751-5.2	Adjust Existing Manhole/Inlet	EA	1		\$ -	
38	L-100-5.3	Electrical Demolition	LS	0.10		\$ -	
39	L-105-6.2	Base Bid Twy J Temporary Jumpers, Lighting and Signage	LS	1		\$ -	
40	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	4,100		\$ -	
41	L-108-5.2	L-824, Type C, 1/C #6, 5 kV Cable	LF	1,000		\$ -	
42	L-108-5.3	Bare, 1/C #6, Counterpoise Wire	LF	3,100		\$ -	
43	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,340		\$ -	
44	L-110-5.3	Multiple-way (6) 2-inch Conduits, Direct Buried	LF	80		\$ -	
45	L-110-5.5	Single-way 2" Conduit, Concrete Encased	LF	300		\$ -	
46	L-110-5.6	Multiple-way (4) 2-inch HDPE Conduits, Directional Bored	LF	580		\$ -	
47	L-110-5.7	Multiple-way (6) 2-inch HDPE Conduits, Directional Bored	LF	400		\$ -	
48	L-110-5.9	System Drain, (1) 2" Conduit, Concrete Encased	LF	350		\$ -	
49	L-115-5.1	New Concrete Handhole, Type I, Furnished & Installed	EA	4		\$ -	
50	L-115-5.3	Two-Can Junction Can Plaza, Furnished & Installed	EA	4		\$ -	
51	L-850-4.3	Salvage and Reinstall In-pavement L-850C Runway Edge Light with New Isolation Transformer on New or Existing Base	EA	1		\$ -	
52	L-858-5.1	New Size 3, 1-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	2		\$ -	
53	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		\$ -	
54	L-858-5.4	New Size 3, 4-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		\$ -	
55	L-861T-4.3	Salvage and Reinstall L-861T Quartz Taxiway Edge Light with New Isolation Transformer on New Base	EA	18		\$ -	
56	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	12		\$ -	
57	L-867/868-6.2	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in Non-Paved Shoulder	EA	7		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**BASE BID
TWY J**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
58	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	EA	1		\$ -	
59	L-867/868-6.5	New Size "B" L-867 Blank Base Can Cover	EA	3		\$ -	
60	L-867/868-6.10	Concrete Foundation for 1-Module Sign	EA	2		\$ -	
61	L-867/868-6.11	Concrete Foundation for 2-Module Sign	EA	2		\$ -	
62	L-867/868-6.12	Concrete Foundation for 3-Module Sign	EA	1		\$ -	
63	L-867/868-6.13	Concrete Foundation for 4-Module Sign	EA	1		\$ -	
Total Bid Amount:						\$ 200,000.00	

_____ 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.

_____ Acknowledged 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 Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

ALTERNATE #1
TW J

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

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	Contractor Staging Area	Allow	1	\$ 25,000.00	\$ 25,000.00	
3	100.3	Insurance and Bonds	LS	1		\$ -	
4	100.4	Airside Safety and Security / Traffic Control	LS	1		\$ -	
5	101.1	Preparing Right-of-Way	LS	1		\$ -	
6	540.1	Storm Water Pollution Prevention Plan	LS	1		\$ -	
7	GP 60-05	Field Office and Curing Facilities	LS	1		\$ -	
8	P-100-2.1	Contractor Quality Control	LS	1		\$ -	
9	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	1,330		\$ -	
10	P-101-5.2	Bituminous Pavement Removal	SY	170		\$ -	
11	P-101-5.3	Cement-Treated Base Removal	SY	1,490		\$ -	
12	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	369		\$ -	
13	P-101-5.5	AC Pavement Saw Cut (Full Depth)	LF	60		\$ -	
14	P-151-4.1	Clearing and Grubbing	AC	1.94		\$ -	
15	P-152-4.1	Unclassified Excavation (Estimated)	CY	7,830		\$ -	
16	P-155-8.1	Lime-Treated Subgrade, 6" Depth (P-155)	SY	6,130		\$ -	
17	P-155-8.2	Lime	TON	130		\$ -	
18	P-208-5.1	Aggregate Base Course, 13" Depth (P-208)	SY	1,010		\$ -	
19	P-304-8.1	Cement-Treated Base Course, 8" Depth (P-304)	SY	3,200		\$ -	
20	P-304-8.2	Cement-Treated Base Course, 16" Depth (P-304)	SY	3,200		\$ -	
21	P-403-8.1	HMA Pavement (3" Surface Course)	TON	520		\$ -	
22	P-501-8.1	Portland Cement Concrete Pavement, 16" Depth	SY	2,890		\$ -	
23	P-604-6.1	Preformed Sealer, 1/2-inch Joint	LF	2,780		\$ -	
24	P-604-6.2	Preformed Sealer, 1-inch Joint	LF	530		\$ -	
25	P-604-6.3	Hot Applied Edge Seal	LF	1,020		\$ -	
26	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	2,890		\$ -	
27	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	4,080		\$ -	
28	P-620-5.4	Reflective Surface Painted Holding Position Signs, Waterborne	SF	860		\$ -	
29	P-620-5.5	Pavement Marking Obliteration	SF	830		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**ALTERNATE #1
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PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
30	T-904-5.1	Sodding, 2" Depth (T-904)	SY	9,390		\$ -	
31	T-905-5.1	Top Soil, 2" Depth (T-905)	CY	520		\$ -	
32	D-705-5.1	Underdrain System	LS	1		\$ -	
33	L-100-5.3	Electrical Demolition	LS	0.20		\$ -	
34	L-105-6.3	Alternate 1 Temporary Jumpers, Lighting and Signage	LS	1		\$ -	
35	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	2,390		\$ -	
36	L-108-5.3	Bare, 1/C #6, Counterpoise Wire	LF	1,400		\$ -	
37	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,210		\$ -	
38	L-110-5.9	System Drain, (1) 2" Conduit, Concrete Encased	LF	180		\$ -	
39	L-858-5.2	New Size 3, 2-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		\$ -	
40	L-858-5.3	New Size 3, 3-Module Airside LED Guidance Sign, Installed on Any Foundation or Base Assembly	EA	1		\$ -	
41	L-861T-4.1	New L-861T LED Taxiway Edge Light with New Isolation Transformer on New Base	EA	14		\$ -	
42	L-861T-4.3	Salvage and Reinstall L-861T Quartz Taxiway Edge Light with New Isolation Transformer on New Base	EA	8		\$ -	
43	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	13		\$ -	
Total Alternate #1 (Twy J) Bid Amount:						\$ 25,000.00	

_____ 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.

_____ Acknowledged 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 Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

ALTERNATE #2
TW G

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

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	Contractor Staging Area	Allow	1	\$ 25,000.00	\$ 25,000.00	
3	100.3	Insurance and Bonds	LS	1		\$ -	
4	100.4	Airside Safety and Security / Traffic Control	LS	1		\$ -	
5	101.1	Preparing Right-of-Way	LS	1		\$ -	
6	540.1	Storm Water Pollution Prevention Plan	LS	1		\$ -	
7	GP 60-05	Field Office and Curing Facilities	LS	1		\$ -	
8	P-100-2.1	Contractor Quality Control	LS	1		\$ -	
9	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	3,070		\$ -	
10	P-101-5.3	Cement-Treated Base Removal	SY	3,070		\$ -	
11	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	520		\$ -	
12	P-151-4.1	Clearing and Grubbing	AC	0.17		\$ -	
13	P-152-4.1	Unclassified Excavation (Estimated)	CY	165		\$ -	
14	P-155-8.1	Lime-Treated Subgrade, 6" Depth (P-155)	SY	3,230		\$ -	
15	P-155-8.2	Lime	TON	70		\$ -	
16	P-208-5.1	Aggregate Base Course, 13" Depth (P-208)	SY	510		\$ -	
17	P-304-8.2	Cement-Treated Base Course, 16" Depth (P-304)	SY	3,200		\$ -	
18	P-501-8.1	Portland Cement Concrete Pavement, 16" Depth	SY	3,070		\$ -	
19	P-604-6.1	Preformed Sealer, 1/2-inch Joint	LF	2,120		\$ -	
20	P-604-6.2	Preformed Sealer, 1-inch Joint	LF	360		\$ -	
21	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	420		\$ -	
22	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	810		\$ -	
23	P-620-5.5	Pavement Marking Obliteration	SF	270		\$ -	
24	T-904-5.1	Sodding, 2" Depth (T-904)	SY	820		\$ -	
25	T-905-5.1	Top Soil, 2" Depth (T-905)	CY	50		\$ -	
26	L-100-5.3	Electrical Demolition	LS	0.10		\$ -	
27	L-105-6.4	Alternate 2 Temporary Jumpers, Lighting and Signage	LS	1		\$ -	
28	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	1,300		\$ -	
29	L-108-5.3	Bare, 1/C #6, Counterpoise Wire	LF	500		\$ -	
30	L-110-5.5	Single-way 2" Conduit, Concrete Encased	LF	380		\$ -	
31	L-110-5.9	System Drain, (1) 2" Conduit, Concrete Encased	LF	120		\$ -	
32	L-852-4.1	Remove and Relocate In-pavement L-852A Taxiway Centerline Light with New Isolation Transformer on New Base	EA	4		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**ALTERNATE #2
TW G**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
33	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	EA	6		\$ -	
34	L-867/868-6.4	Size "B" L-868 Base Can – "Core Drill New PCCP" Installation at Joint or Sawcut	EA	2		\$ -	
35	L-867/868-6.6	New Size "B" L-868 Blank Base Can Cover	EA	4		\$ -	
Total Alternate #2 (Twy G) Bid Amount:						\$ 25,000.00	

_____ 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.

_____ Acknowledged 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 Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

ALTERNATE #3
TW D

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

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	Contractor Staging Area	Allow	1	\$ 25,000.00	\$ 25,000.00	
3	100.3	Insurance and Bonds	LS	1		\$ -	
4	100.4	Airside Safety and Security / Traffic Control	LS	1		\$ -	
5	101.1	Preparing Right-of-Way	LS	1		\$ -	
6	540.1	Storm Water Pollution Prevention Plan	LS	1		\$ -	
7	GP 60-05	Field Office and Curing Facilities	LS	1		\$ -	
8	P-100-2.1	Contractor Quality Control	LS	1		\$ -	
9	P-101-5.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge and Reinforcement	SY	7,170		\$ -	
10	P-101-5.2	Bituminous Pavement Removal	SY	1,180		\$ -	
11	P-101-5.3	Cement-Treated Base Removal	SY	8,340		\$ -	
12	P-101-5.4	Concrete Pavement Saw Cut (Full Depth)	LF	1,284		\$ -	
13	P-101-5.5	AC Pavement Saw Cut (Full Depth)	LF	55		\$ -	
14	P-151-4.1	Clearing and Grubbing	AC	1.54		\$ -	
15	P-151-4.2	Remove Existing Storm Drain Pipe	LF	377		\$ -	
16	P-151-4.3	Remove Existing Catch Basin or Manhole	EA	1		\$ -	
17	P-152-4.1	Unclassified Excavation (Estimated)	CY	7,000		\$ -	
18	P-155-8.1	Lime-Treated Subgrade, 6" Depth (P-155)	SY	10,670		\$ -	
19	P-155-8.2	Lime	TON	230		\$ -	
20	P-208-5.1	Aggregate Base Course, 13" Depth (P-208)	SY	800		\$ -	
21	P-304-8.1	Cement-Treated Base Course, 8" Depth (P-304)	SY	2,400		\$ -	
22	P-304-8.2	Cement-Treated Base Course, 16" Depth (P-304)	SY	8,500		\$ -	
23	P-403-8.1	HMA Pavement (3" Surface Course)	TON	390		\$ -	
24	P-501-8.1	Portland Cement Concrete Pavement, 16" Depth	SY	8,230		\$ -	
25	P-604-6.1	Preformed Sealer, 1/2-inch Joint	LF	6,840		\$ -	
26	P-604-6.2	Preformed Sealer, 1-inch Joint	LF	950		\$ -	
27	P-604-6.3	Hot Applied Edge Seal	LF	740		\$ -	
28	P-620-5.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	SF	29,030		\$ -	
29	P-620-5.3	Non-Reflective Black Pavement Markings, Waterborne	SF	3,160		\$ -	
30	P-620-5.4	Reflective Surface Painted Holding Position Signs, Waterborne	SF	860		\$ -	
31	P-620-5.5	Pavement Marking Obliteration	SF	1,780		\$ -	
32	T-904-5.1	Sodding, 2" Depth (T-904)	SY	7,440		\$ -	
33	T-905-5.1	Top Soil, 2" Depth (T-905)	CY	410		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

ALTERNATE #3
TW D

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
34	D-701-5.3	66" RGRCP, Class V	LF	16		\$ -	
35	D-701-5.4	Concrete Pipe Collar	EA	2		\$ -	
36	D-751-5.1	Catch Basins	EA	1		\$ -	
37	D-751-5.2	Adjust Existing Manhole/Inlet	EA	1		\$ -	
38	L-100-5.3	Electrical Demolition	LS	0.20		\$ -	
39	L-105-6.5	Alternate 3 Temporary Jumpers, Lighting and Signage	LS	1		\$ -	
40	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	LF	4,000		\$ -	
41	L-108-5.2	L-824, Type C, 1/C #6, 5 kV Cable	LF	600		\$ -	
42	L-108-5.3	Bare, 1/C #6, Counterpoise Wire	LF	2,600		\$ -	
43	L-110-5.1	Single-way 2" Conduit, Direct Buried	LF	1,130		\$ -	
44	L-110-5.3	Multiple-way (6) 2-inch Conduits, Direct Buried	LF	180		\$ -	
45	L-110-5.5	Single-way 2" Conduit, Concrete Encased	LF	690		\$ -	
46	L-110-5.7	Multiple-way (6) 2-inch HDPE Conduits, Directional Bored	LF	140		\$ -	
47	L-110-5.9	System Drain, (1) 2" Conduit, Concrete Encased	LF	380		\$ -	
48	L-115-5.2	Extend Handhole To New Grade	EA	1		\$ -	
49	L-115-5.4	Extend Two-Can Junction Can Plaza To New Grade	EA	1		\$ -	
50	L-852-4.1	Remove and Relocate In-pavement L-852A Taxiway Centerline Light with New Isolation Transformer on New Base	EA	13		\$ -	
51	L-858-5.5	Remove and Relocate Size 3, Any-Module Airside Guidance Sign, Installed on New Foundation	EA	3		\$ -	
52	L-861T-4.2	Salvage and Reinstall L-861T LED Taxiway Edge Light with New Isolation Transformer on New Base	EA	15		\$ -	
53	L-867/868-6.1	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Asphalt Shoulder	EA	13		\$ -	
54	L-867/868-6.2	Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in Non-Paved Shoulder	EA	4		\$ -	
55	L-867/868-6.3	Size "B" L-868 Base Can – "Standard Installation (New PCCP)"	EA	17		\$ -	
56	L-867/868-6.4	Size "B" L-868 Base Can – "Core Drill New PCCP" Installation at Joint or Sawcut	EA	2		\$ -	
57	L-867/868-6.5	New Size "B" L-867 Blank Base Can Cover	EA	2		\$ -	
58	L-867/868-6.6	New Size "B" L-868 Blank Base Can Cover	EA	6		\$ -	
59	L-867/868-6.12	Concrete Foundation for 3-Module Sign	EA	1		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: Runway 12R - 30L Electrical Improvements and Terminal Area Taxiway Improvements (Package 4)

**ALTERNATE #3
TW D**

PROJECT NO. 33-00178 & 33-00193 (AIP NO 3-48-0192-XX-2015)

ITEM NO.	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
60	L-867/868-6.13	Concrete Foundation for 4-Module Sign	EA	1		\$ -	
61	L-867/868-6.14	Concrete Foundation for 2+4-Module Sign	EA	1		\$ -	
Total Alternate #3 (Twy D) Bid Amount:						\$ 25,000.00	

_____ 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.

_____ Acknowledged 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: _____



Kimley-Horn

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

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



MARK	DATE	DESCRIPTION
2	06/10/16	ADDENDUM 4
1	5/31/16	ADDENDUM 1
		RE-ISSUED SHEET
ISSUE:		
PROJECT NO:	33-00193	
FILE NAME:	33-00193-R1CO-400-D00	
DRAWN BY:	CAD	
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**OVERALL PHASING
PLAN**



LEGEND

- BASE BID ELECTRICAL/CIVIL (75 DAYS)
- ALTERNATE 1 BID (65 DAYS)
- ALTERNATE 2 BID (50 DAYS)
- ALTERNATE 3 BID (85 DAYS)
- CONTRACTOR FIELD OFFICE, STAGING AND STORAGE AREA
- SOIL PLACEMENT AREA
- HAUL ROUTE
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER (PROVIDED BY THE CONTRACTOR)
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- WING WALKER (TO BE SUPPLIED BY AIRLINES)

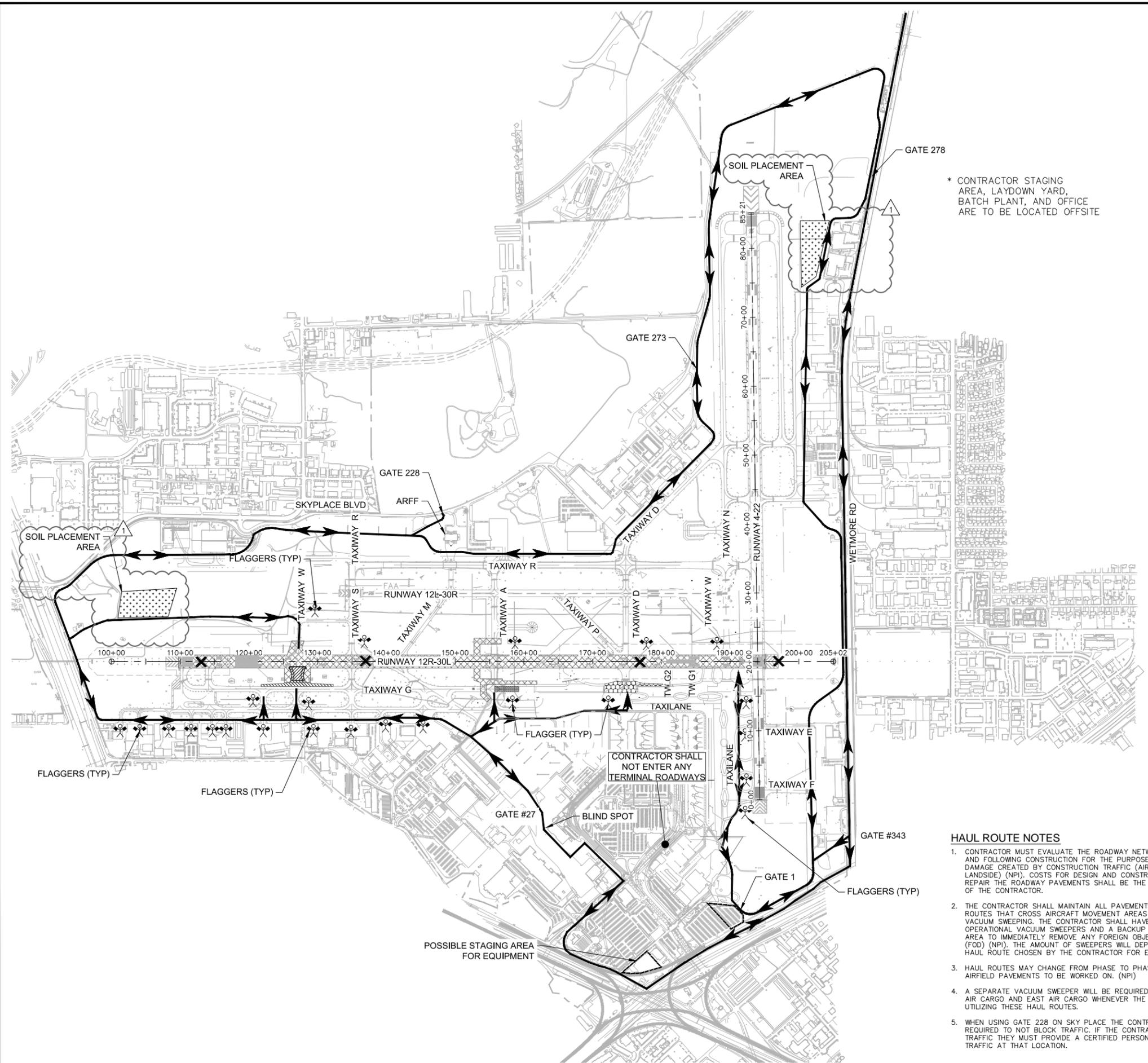
GENERAL NOTES

- RUNWAY 4-22 AND 12R-30L WILL NOT BE CLOSED AT THE SAME TIME.
- BECAUSE THE BATCH PLANT IS LOCATED OFFSITE, IT IS THE INTENT TO PROVIDE ENOUGH ENTRANCES AND OPTIONS FOR THE CONTRACTOR TO CHOOSE THEIR DESIRED HAUL ROUTE FOR ENTERING THE PROJECT LOCATION. THE CONTRACTOR WILL HAVE TO PROVIDE NECESSARY FLAGGERS (NPI) AND SWEEPERS (NPI) NECESSARY FOR EACH PHASE. ANY CHANGES TO THE HAUL ROUTES WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE AIRPORT IMMEDIATELY. THE AIRPORT ALSO RESERVES THE RIGHT TO CHANGE/ALTER THE ROUTE DUE TO UNKNOWN CIRCUMSTANCES. NO ADDITIONAL PAYMENT WILL BE MADE FOR ALTERING THE ROUTE.
- THE CONTRACTOR SHALL BE AWARE THAT CONSTRUCTION WILL BE ADJACENT TO ACTIVE AIRCRAFT OPERATIONS. CONSTRUCTION TRAFFIC SHALL YIELD TO AIRCRAFT AT ALL TIMES. THE CONTRACTOR SHALL NOT MOVE ANY EQUIPMENT ON ANY ACTIVE AIRPORT OPERATIONS AREA WITHOUT AN OPERATIONS OR MAINTENANCE STAFF ESCORT. DELAYS AND PRECAUTIONS RESULTING FROM AIRCRAFT MOVEMENTS SHOULD BE EXPECTED. EXPENSES ASSOCIATED WITH ANY DELAYS ARE INCIDENTAL TO THE PROJECT (NPI).
- PORTABLE LIGHTED RUNWAY CLOSURE MARKERS (LIGHTED "X") WILL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT, REFER TO DETAIL 1, SHEET C2.3.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN LOW PROFILE BARRICADES, LIGHTS AND FLAGS FOR RUNWAY/TAXIWAY CLOSURES AS INDICATED ON THE CONSTRUCTION PHASING PLANS, REFER TO DETAIL SHEET C2.3. THE CONTRACTOR SHALL PLACE THE LOW PROFILE BARRICADES AS SHOWN ON EACH PHASING PLAN OR AS DIRECTED BY THE SAT OPERATIONS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIONING OF LOW PROFILE BARRICADES THROUGHOUT THE DURATION OF THE PROJECT (NPI).
- THE CONTRACTOR SHALL COORDINATE WITH OPERATIONS AND MAINTENANCE STAFF TO COVER AND PROTECT ANY EXISTING GUIDANCE SIGNS AND EDGE LIGHTS ASSOCIATED WITH CLOSED RUNWAYS AND TAXIWAYS. DAMAGE TO SIGNS AND EDGE LIGHTS SHALL BE REPLACED AT THE CONTRACTOR EXPENSE (NPI).
- THE CONTRACTOR SHALL REMOVE THE LOW PROFILE BARRICADES AND UNCOVER THE GUIDANCE SIGNS AND EDGE LIGHTS UPON COMPLETION OF THE PROJECT. DAMAGE TO SIGNS AND EDGE LIGHTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE (NPI).
- CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF THE OFFSITE BATCH PLANT LOCATION. ALL MEASURES TO SECURE THE BATCH PLANT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF ANY OF THE TEMPORARY STAGING AREAS ASSOCIATED WITH THE PROJECT (NPI). FENCING WILL NOT BE ALLOWED TO BE ANCHORED INTO EXISTING PAVEMENT.
- THE CONTRACTOR SHALL PROVIDE LICENSED GATE GUARDS IN ACCORDANCE WITH THE AIRPORT'S STANDARDS AND REQUIREMENTS. COST FOR PROVIDING GATE GUARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS GUARD WILL NOT HAVE AUTHORITY OVER AIRPORT SECURITY WHILE ON DUTY. (NPI)
- ALL VEHICLES WILL BE SUBJECT TO SEARCH BEFORE ENTERING THE SECURED AREA.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE CONTRACTOR SHALL PROVIDE APPROPRIATE TXDOT WARNING SIGNS PRIOR TO THE PROJECT ENTRANCE NOTIFYING THE TRAVELING PUBLIC. THESE SIGNS WILL BE REVIEWED AND APPROVED BY THE ENGINEER/AIRPORT AND BE PROVIDED FOR THE DURATION OF THE PROJECT. THESE SIGNS ARE CONSIDERED INCIDENTAL TO THE PROJECT. (NPI)
- ALL MATERIAL REMOVED FROM THE PROJECT SHALL REMAIN ON AIRPORT PROPERTY AT A DESIGNATION TO BE DETERMINED BY THE AIRPORT, ENVIRONMENTAL, AND THE ENGINEER. THIS MATERIAL SHALL BE SPREAD COMPACTED AND SEEDED TO THE SATISFACTION OF THE ENGINEER. (NPI)
- RUNWAY 12R-30L WILL BE RENUMBERED TO RUNWAY 13R-31L DURING THIS SAME RUNWAY CLOSURE. AIRPORT FORCES WILL RENUMBER THE RUNWAY, CHANGE SIGNING NOT ASSOCIATED WITH THIS PROJECT, AND PAINT NEW HOLD POSITION MARKINGS AT ALL INTERSECTIONS. CONTRACTOR MUST PROVIDE ACCESS TO AIRPORT MAINTENANCE PERSONNEL TO ACCOMPLISH THIS WORK.



HAUL ROUTE NOTES

- CONTRACTOR MUST EVALUATE THE ROADWAY NETWORK PRIOR TO AND FOLLOWING CONSTRUCTION FOR THE PURPOSES OF REPAIRING DAMAGE CREATED BY CONSTRUCTION TRAFFIC (AIRSIDE OR LANDSIDE) (NPI). COSTS FOR DESIGN AND CONSTRUCTION TO REPAIR THE ROADWAY PAVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN ALL PAVEMENTS AND HAUL ROUTES THAT CROSS AIRCRAFT MOVEMENT AREAS BY MEANS OF VACUUM SWEEPING. THE CONTRACTOR SHALL HAVE ENOUGH OPERATIONAL VACUUM SWEEPERS AND A BACKUP AT THE WORK AREA TO IMMEDIATELY REMOVE ANY FOREIGN OBJECT DEBRIS (FOD) (NPI). THE AMOUNT OF SWEEPERS WILL DEPEND ON THE HAUL ROUTE CHOSEN BY THE CONTRACTOR FOR EACH PHASE.
- HAUL ROUTES MAY CHANGE FROM PHASE TO PHASE BASED ON AIRFIELD PAVEMENTS TO BE WORKED ON. (NPI)
- A SEPARATE VACUUM SWEEPER WILL BE REQUIRED ON THE NORTH AIR CARGO AND EAST AIR CARGO WHENEVER THE CONTRACTOR IS UTILIZING THESE HAUL ROUTES.
- WHEN USING GATE 228 ON SKY PLACE THE CONTRACTOR IS REQUIRED TO NOT BLOCK TRAFFIC. IF THE CONTRACTOR BLOCKS TRAFFIC THEY MUST PROVIDE A CERTIFIED PERSON TO DIRECT TRAFFIC AT THAT LOCATION.



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

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



PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1CO-400-D01
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OPERATIONS AND
PHASING PLAN -
BASE BID

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

- PHASING LEGEND**
- ▨ PACKAGE 4 - BASE BID (CIVIL)
 - ▩ PACKAGE 4 - BASE BID (ELECTRICAL)
 - TOTAL DURATION = 75 DAYS

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

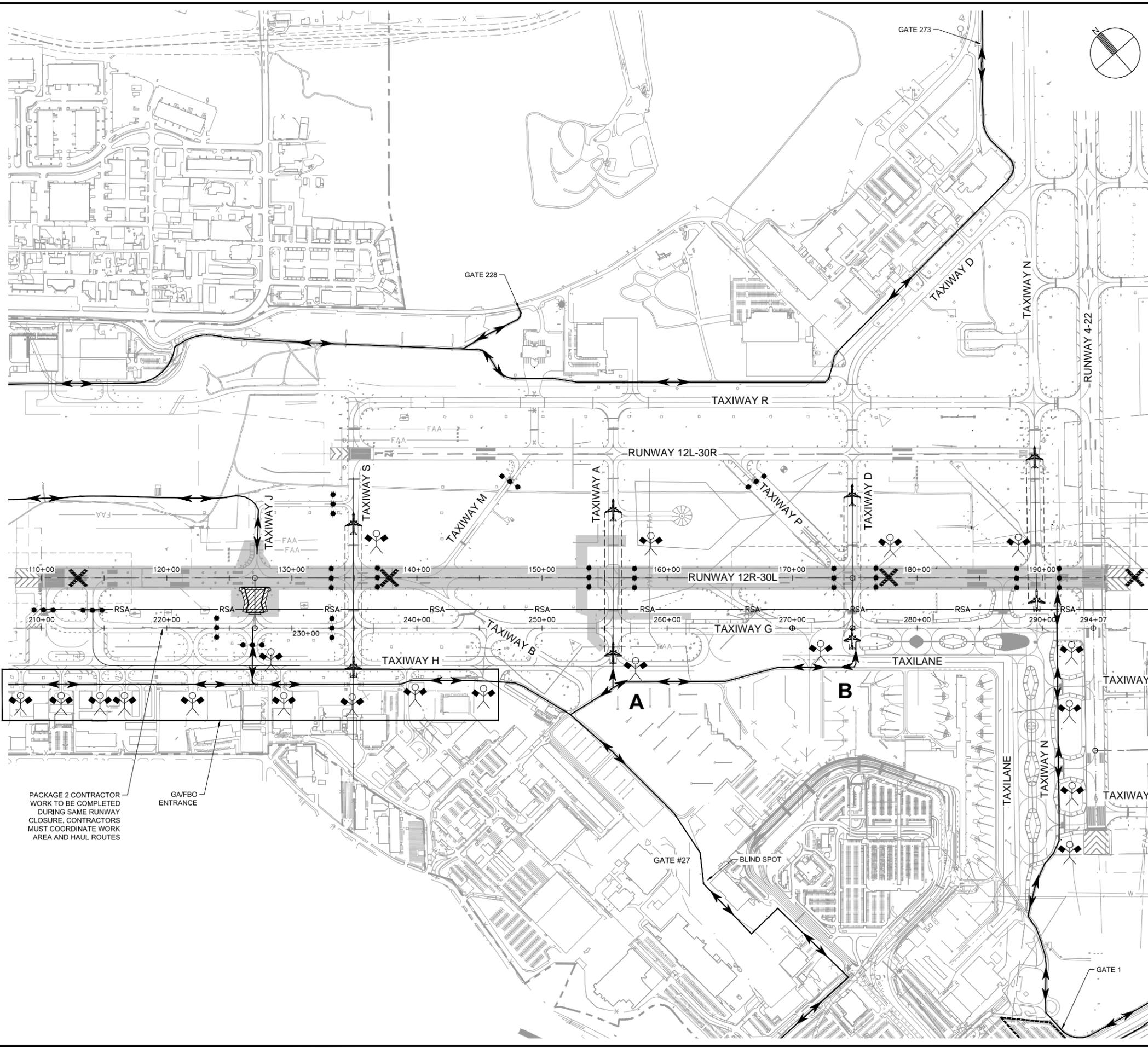
06/10/16 ADDENDUM 4

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO: 33-0019X
FILE NAME: _33-00193-R1CO-400-D01
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SCALE IN FEET



PACKAGE 2 CONTRACTOR WORK TO BE COMPLETED DURING SAME RUNWAY CLOSURE. CONTRACTORS MUST COORDINATE WORK AREA AND HAUL ROUTES

GA/FBO ENTRANCE

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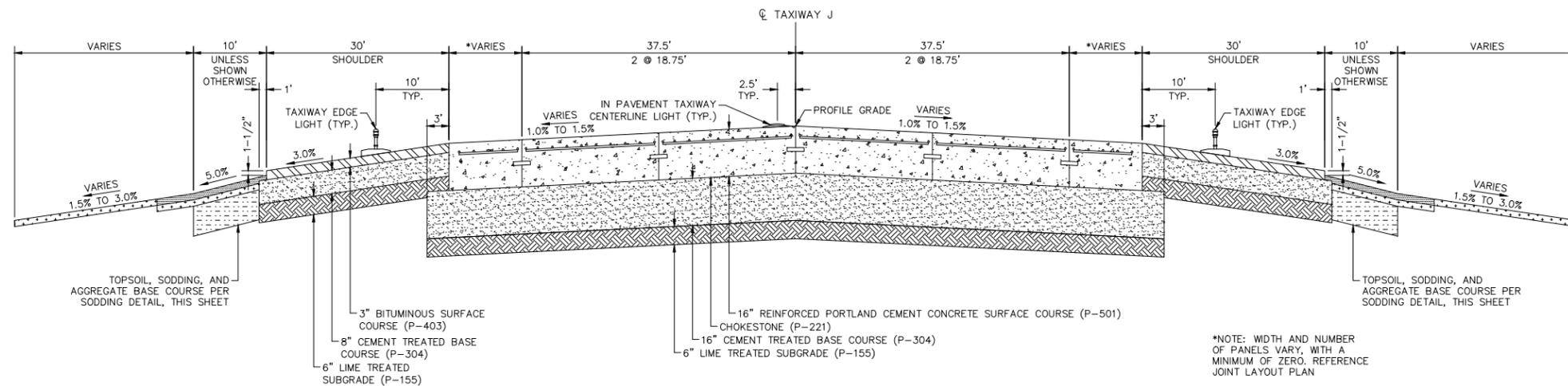


**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1CT-301-D00
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TYPICAL SECTIONS

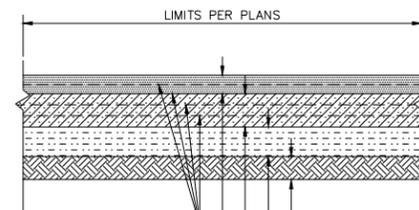


A
C4.1 TAXIWAY J (STA. 11+25.00 TO 13+25.00) TYPICAL SECTION
N.T.S.

GENERAL NOTES

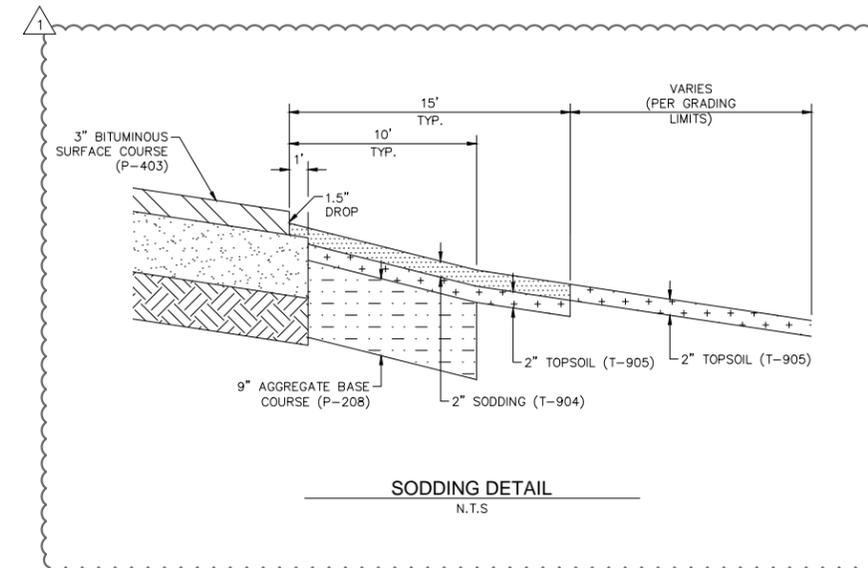
1. THE SUBGRADE IN CUT AREAS SHALL HAVE NATURAL DENSITIES SHOWN, OR
 - A. SHALL BE COMPACTED FROM THE SURFACE TO ACHIEVE THE REQUIRED DENSITIES.
 - B. SHALL BE REMOVED AND REPLACED IN WHICH CASE THE MINIMUM DENSITIES FOR FILLS APPLY. SEE SPECIFICATION P-152 FOR OVER-EXCAVATION REQUIREMENTS.
2. NON-COHESIVE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

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



- APPLY TEMPORARY TACK COAT BETWEEN LIFTS (P-603) (NPI)
- 5" (2.5" MAX LIFTS) TEMPORARY HMA PAVEMENT SURFACE COURSE (P-401)
 - 9" (3" MAX LIFTS) TEMPORARY HMA PAVEMENT BASE COURSE (P-403)
 - 8" TEMPORARY AGGREGATE BASE COURSE (P-208)
 - 6" LIME TREATED SUBGRADE (P-155)

B
C4.1 TEMPORARY ASPHALT (FULL DEPTH) TYPICAL SECTION
(STA 11+09.31 TO STA 11+25)
N.T.S.



SODDING DETAIL
N.T.S.



Kimley-Horn

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

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



Δ	06/13/16	ADDENDUM 4
▲	5/31/16	ADDENDUM 1
		RE-ISSUED SHEET

MARK	DATE	DESCRIPTION
PROJECT NO:	33-0019X	
FILE NAME:	_33-00193-R1CG-101-D00.dwg	
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GRADING AND
DRAINAGE PLAN -
TAXIWAY J -
BASE BID

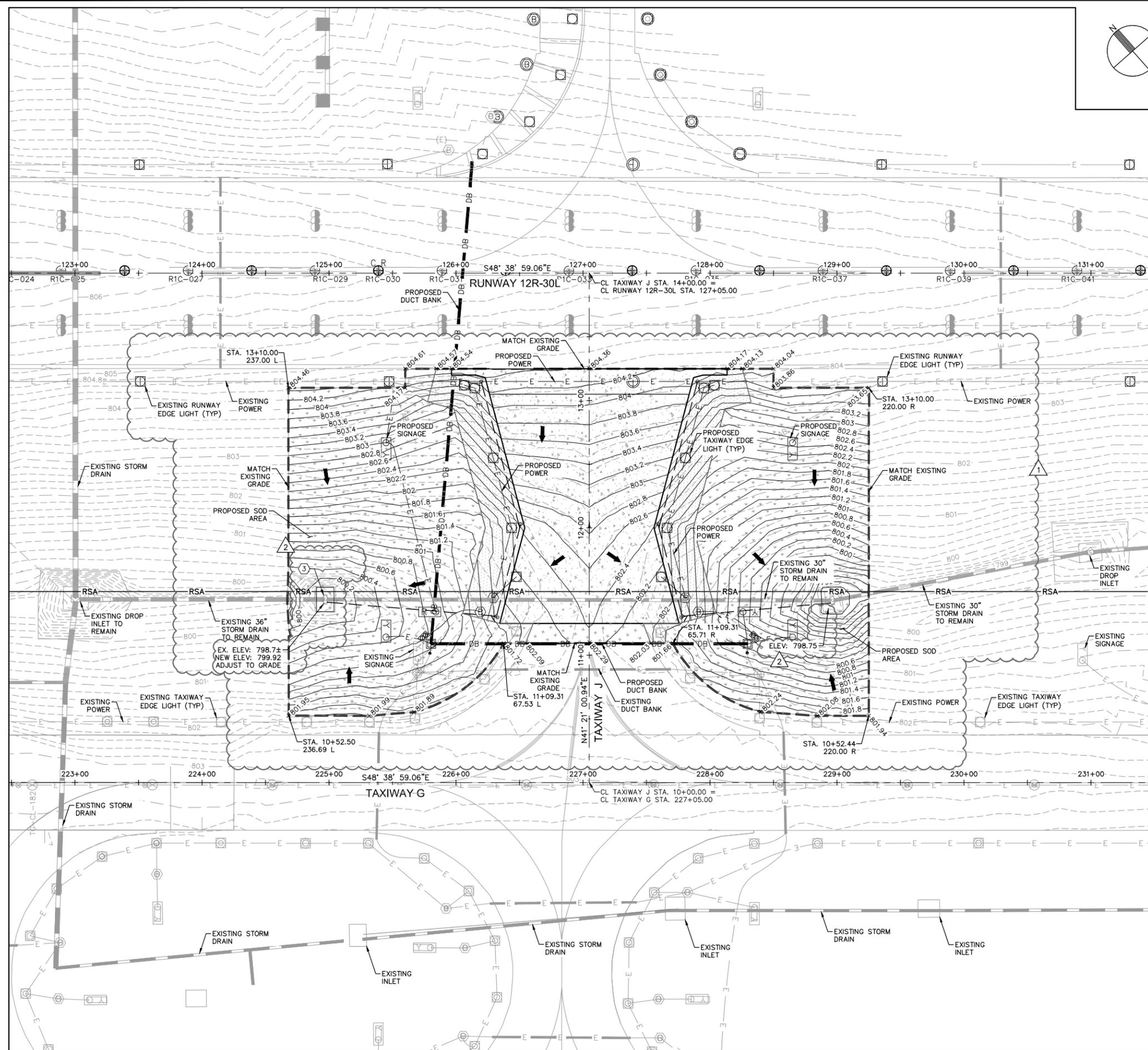
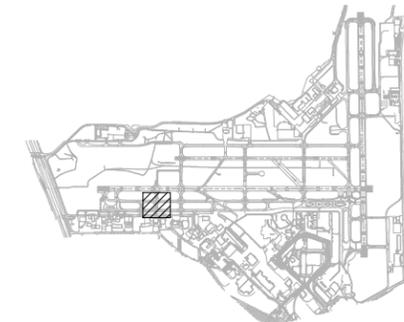
- LEGEND**
- PORTLAND CEMENT CONCRETE PAVEMENT
 - PORTLAND CEMENT CONCRETE TRANSITION
 - ASPHALT CONCRETE SHOULDER PAVEMENT
 - ASPHALT CONCRETE TRANSITION
 - PROPOSED SOD AREA
 - PROPOSED SIGN
 - DIRECTION OF FLOW
 - 780 EXISTING CONTOUR
 - 780 PROPOSED CONTOUR
 - GRADING LIMITS
 - PROPOSED SPOT ELEVATION
 - EXISTING SPOT ELEVATION
 - PROPOSED MANHOLE
 - PROPOSED CATCH BASIN
 - EXISTING INLET
 - PROPOSED UNDERDRAIN CLEANOUT
 - PROPOSED UNDERDRAIN
 - PROPOSED STORM DRAIN PIPE
 - EXISTING STORM DRAIN PIPE

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. PAVEMENT ELEVATIONS SHOWN ARE BASED ON JOINT LAYOUT, REFER TO PAVEMENT JOINT LAYOUT PLANS (SERIES C7).
3. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
5. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
6. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
7. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

CONSTRUCTION NOTES

- ① INSTALL SINGLE CATCH BASIN, SEE SHEET C9.2 FOR DETAILS
- ② ADJUST TO GRADE, SEE SHEET C9.3 FOR DETAILS
- ③ ADJUST INLET TO GRADE, SEE SHEET C9.2 FOR DETAILS



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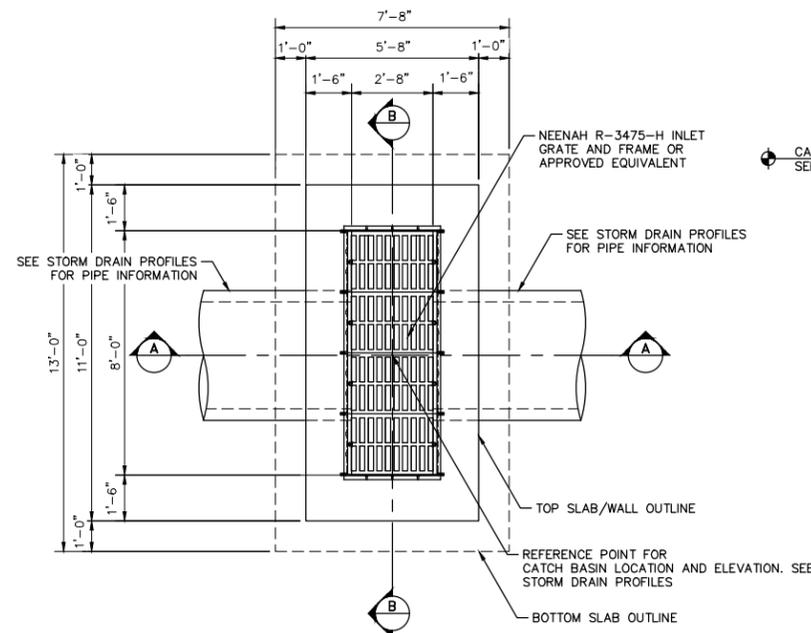


MARK	DATE	DESCRIPTION
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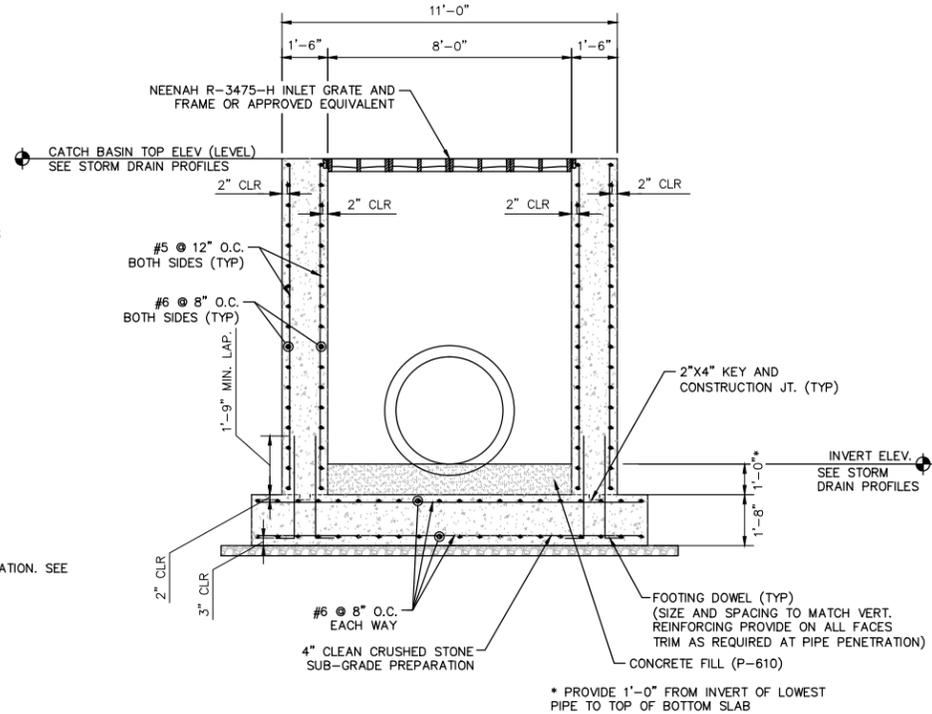
SINGLE CATCH
BASIN DETAILS

GENERAL NOTES

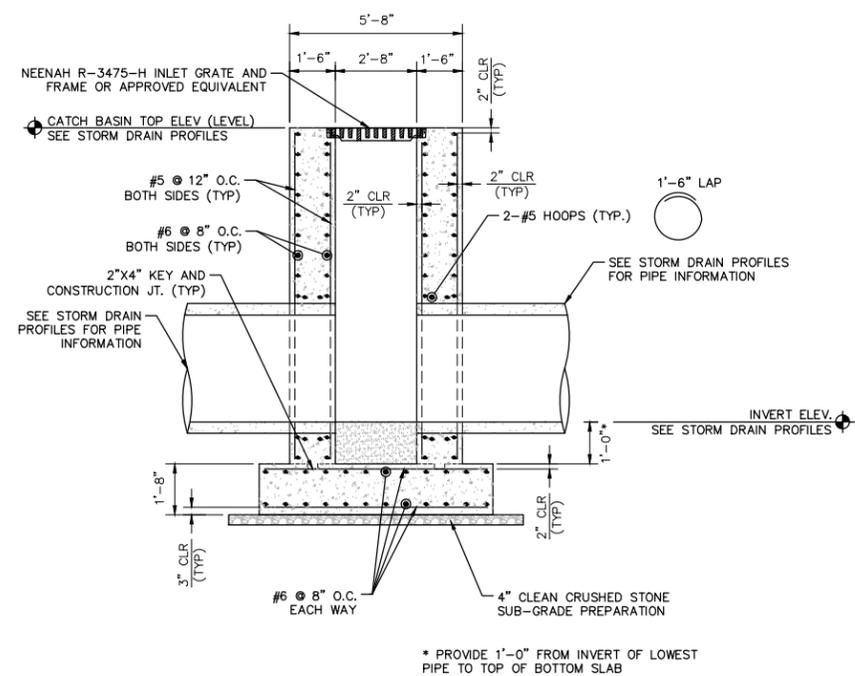
1. CONCRETE $f'_c = 4,000$ P.S.I @ 28 DAYS
2. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60
3. PROVIDE 2" CLEAR COVER FOR REINFORCING STEEL UNLESS NOTED OTHERWISE
4. SEE STORM DRAIN PROFILES FOR CATCH BASIN TOP ELEVATIONS AND INLET INVERT ELEVATIONS
5. PREPARE SUB-GRADE IN ACCORDANCE WITH PROJECT GEOTECHNICAL ENGINEERS RECOMMENDATIONS
6. CONTRACTOR SHALL VERIFY 2'-8" X 8'-0" CATCH BASIN INTERIOR DIMENSIONS WITH SELECTED INLET GRATE MANUFACTURER PRIOR TO CONSTRUCTION OF CATCH BASIN
7. INLET MAY BE ROTATED TO BETTER MATCH INTO PIPE ALIGNMENTS



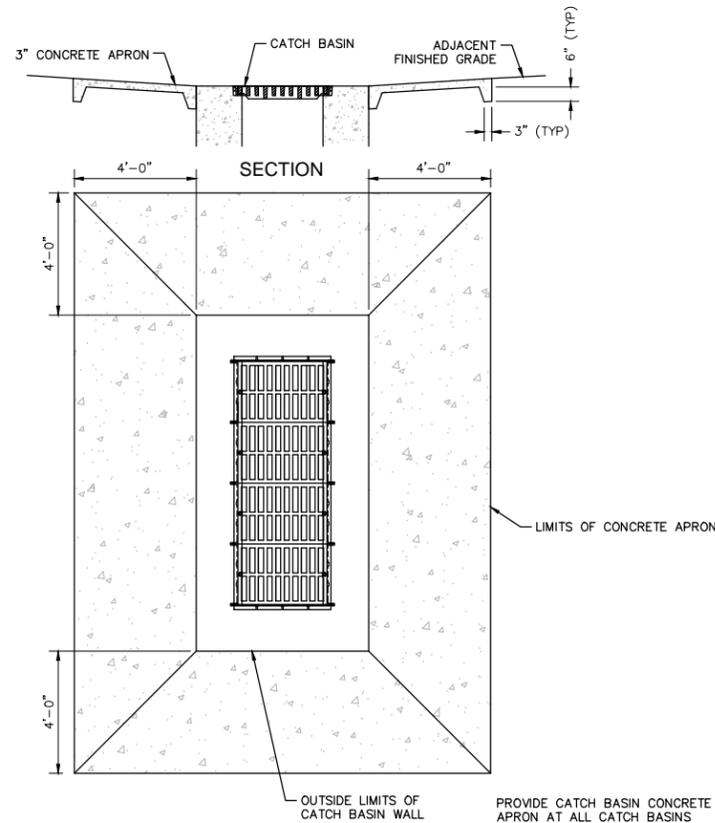
1
C9.2
2.67' x 8' CATCH BASIN PLAN
N.T.S.



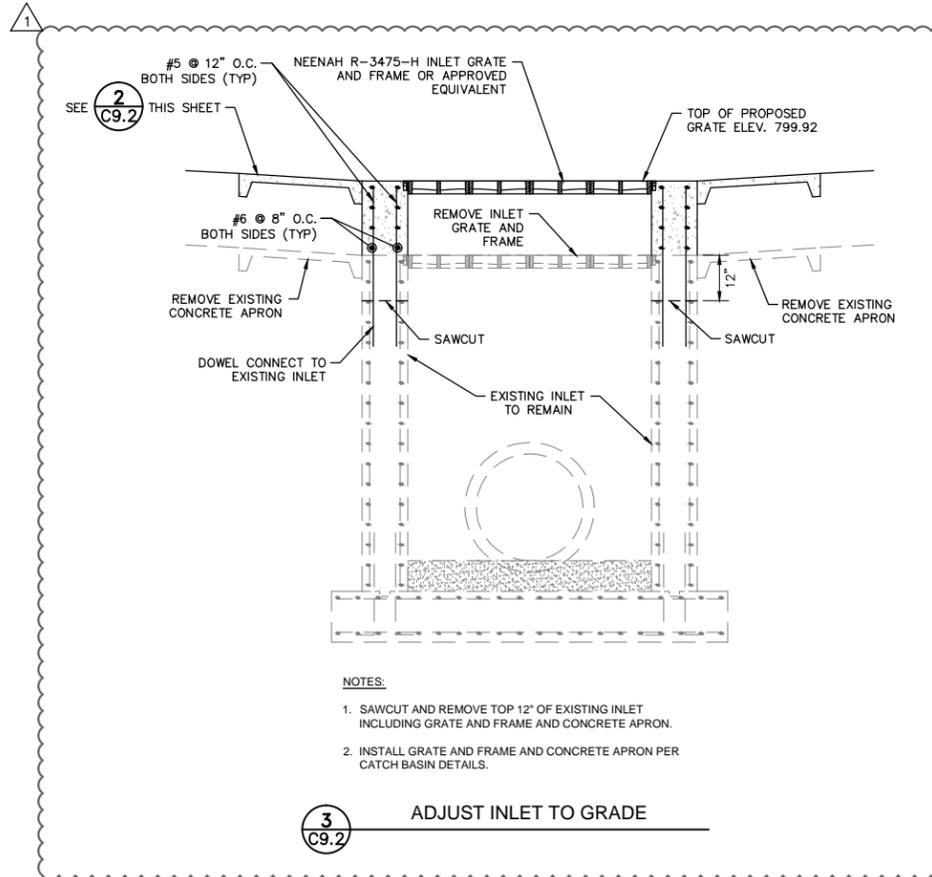
SECTION B-B
N.T.S.



SECTION A-A
N.T.S.



2
C9.2
CATCH BASIN CONCRETE APRON
N.T.S.



3
C9.2
ADJUST INLET TO GRADE

NOTES:

1. SAWCUT AND REMOVE TOP 12" OF EXISTING INLET INCLUDING GRATE AND FRAME AND CONCRETE APRON.
2. INSTALL GRATE AND FRAME AND CONCRETE APRON PER CATCH BASIN DETAILS.



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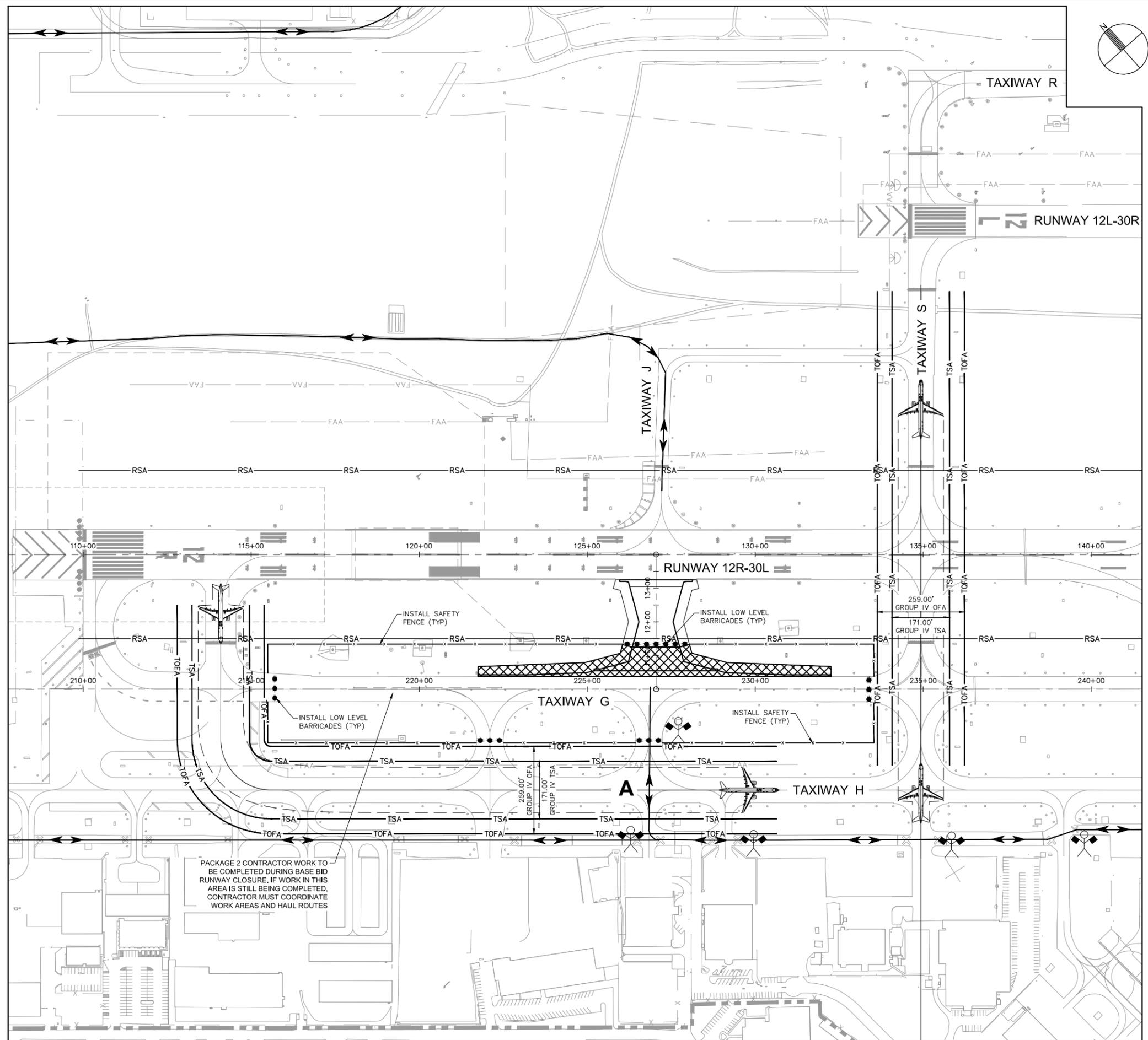
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TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



DATE	06/10/16	DESCRIPTION	ADDENDUM 4
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OPERATIONS AND
PHASING PLAN -
ALTERNATE 1



LEGEND

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

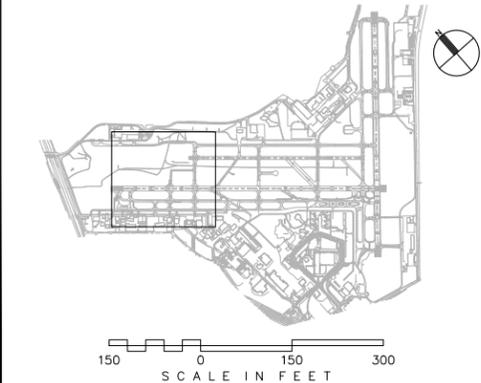
PHASING LEGEND

- ▨ PACKAGE 4 - ALTERNATE 1 (DURATION = 65 DAYS)

GENERAL PHASE NOTES:

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

PACKAGE 2 CONTRACTOR WORK TO BE COMPLETED DURING BASE BID RUNWAY CLOSURE. IF WORK IN THIS AREA IS STILL BEING COMPLETED, CONTRACTOR MUST COORDINATE WORK AREAS AND HAUL ROUTES



150 0 150 300
SCALE IN FEET

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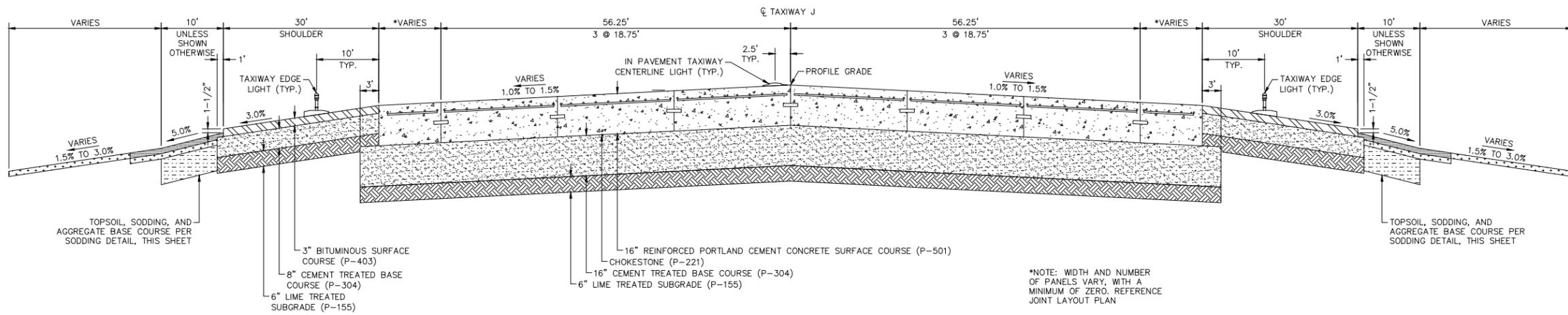
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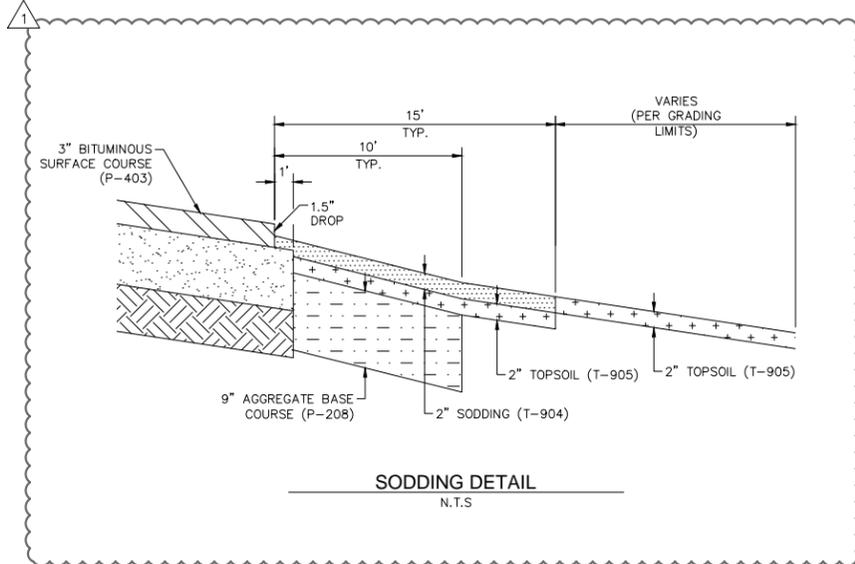


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TYPICAL SECTIONS



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



SODDING DETAIL
N.T.S.

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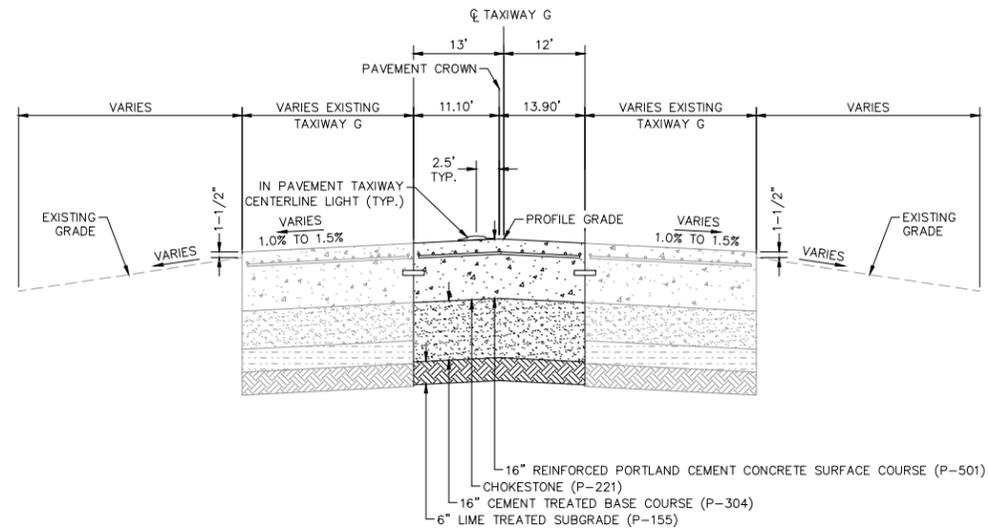
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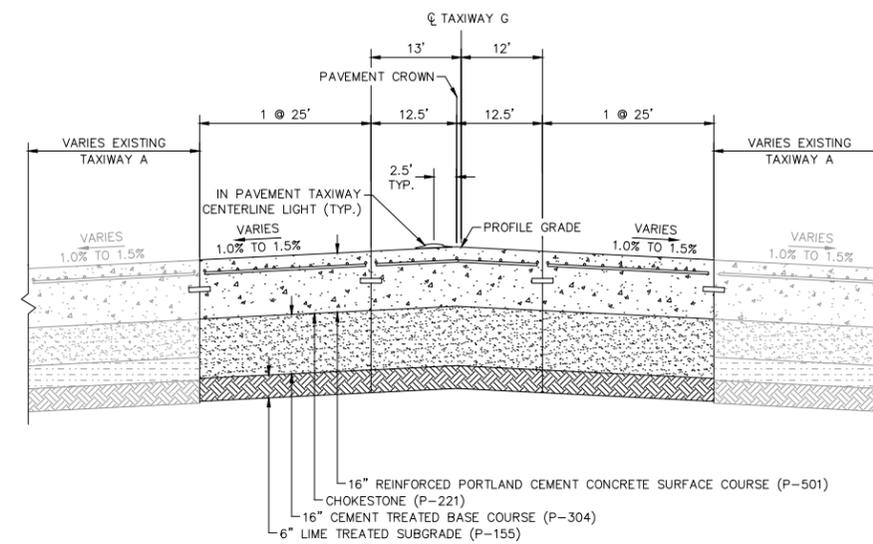
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TYPICAL SECTIONS

C4.3
SHEET NO. 117 OF 157



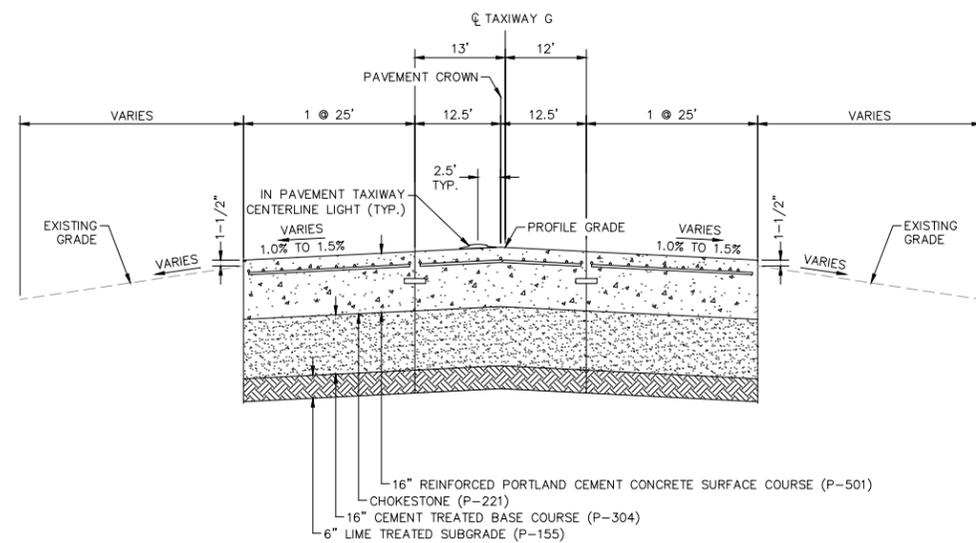
A TAXIWAY G (STA. 252+51.61 TO 252+75.84) TYPICAL SECTION
C4.2 N.T.S.



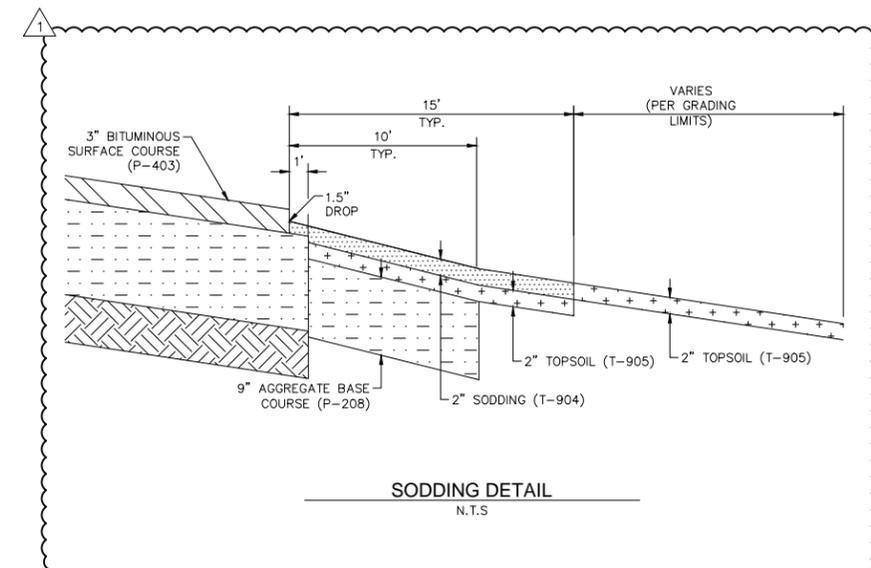
B TAXIWAY G (STA. 255+75.65 TO 257+03.30) TYPICAL SECTION
C4.2 N.T.S.

GENERAL NOTES

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



C TAXIWAY G (STA. 257+03.30 TO 259+25.65) TYPICAL SECTION
C4.3 N.T.S.



SODDING DETAIL
N.T.S.

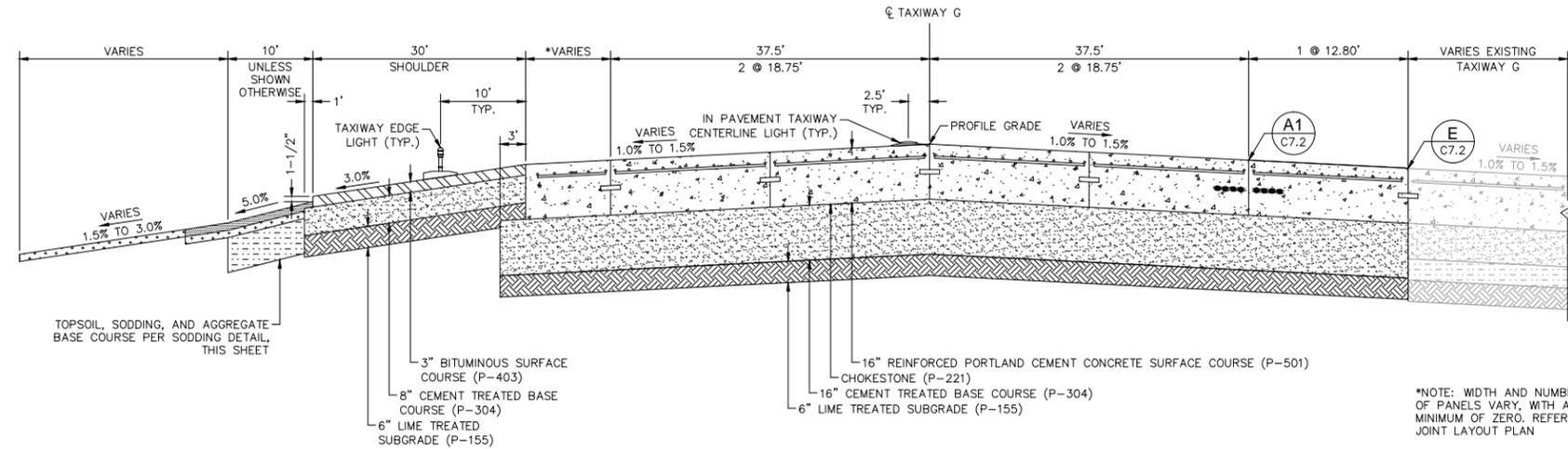
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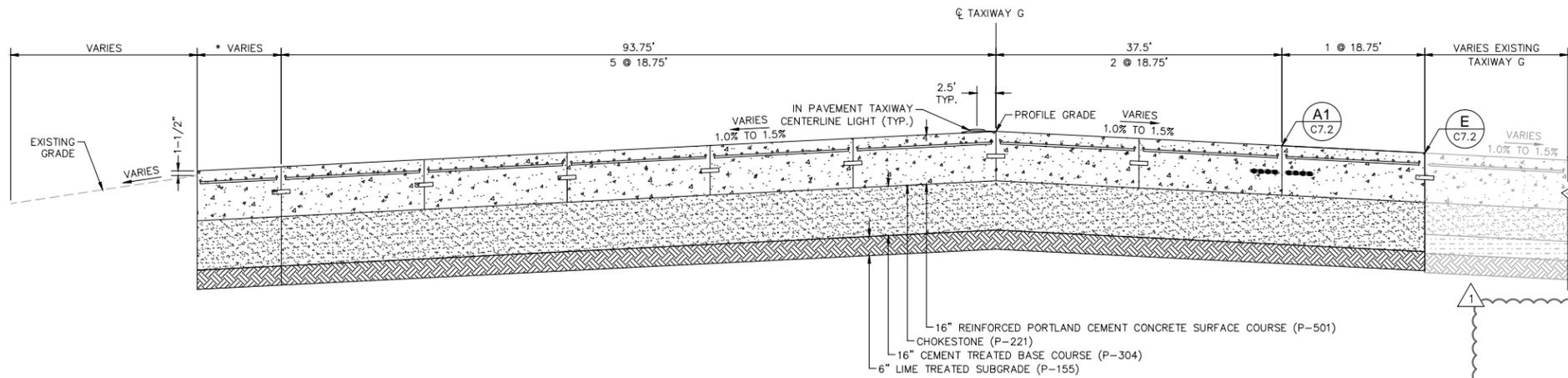


B TAXIWAY G (STA. 271+55.00 TO 273+85.00) TYPICAL SECTION
C4.3 TAXIWAY G (STA. 275+75.00 TO 276+55.00) TYPICAL SECTION
N.T.S.

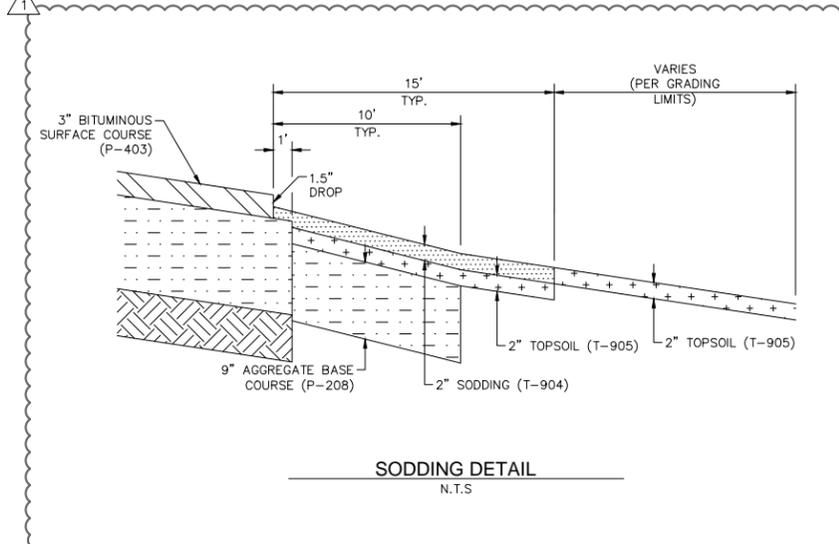
*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

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



SODDING DETAIL
N.T.S.

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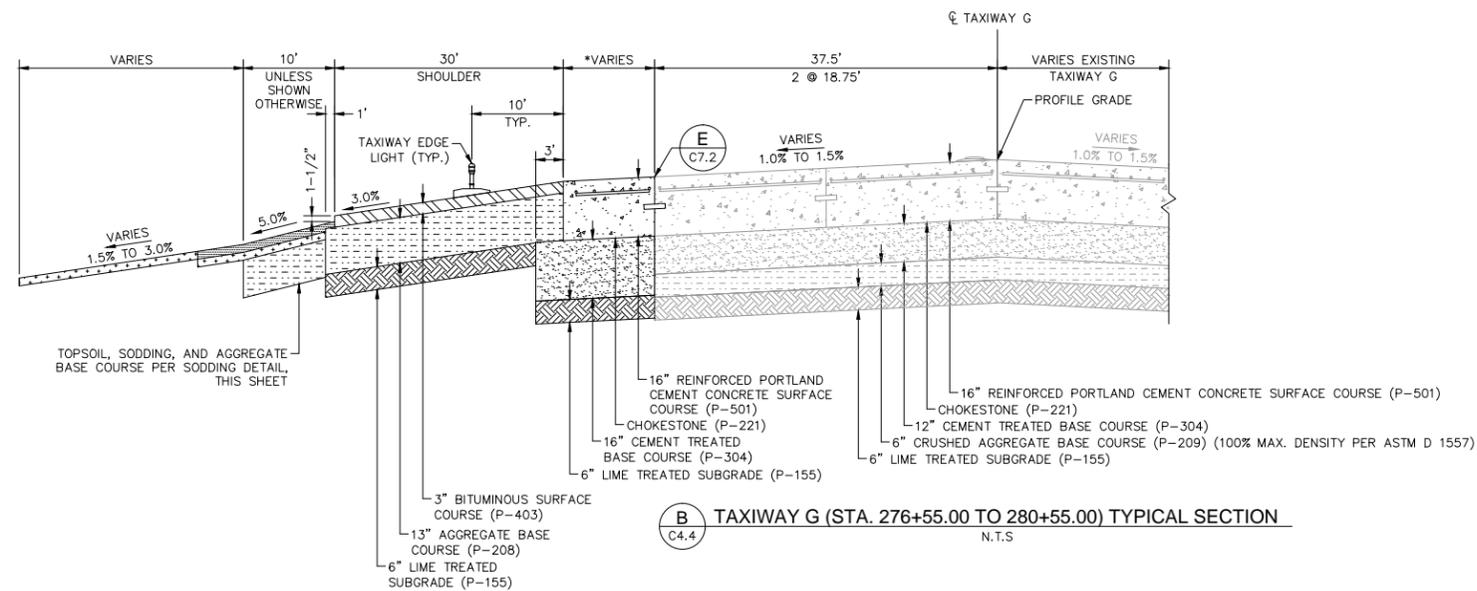
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TYPICAL SECTIONS

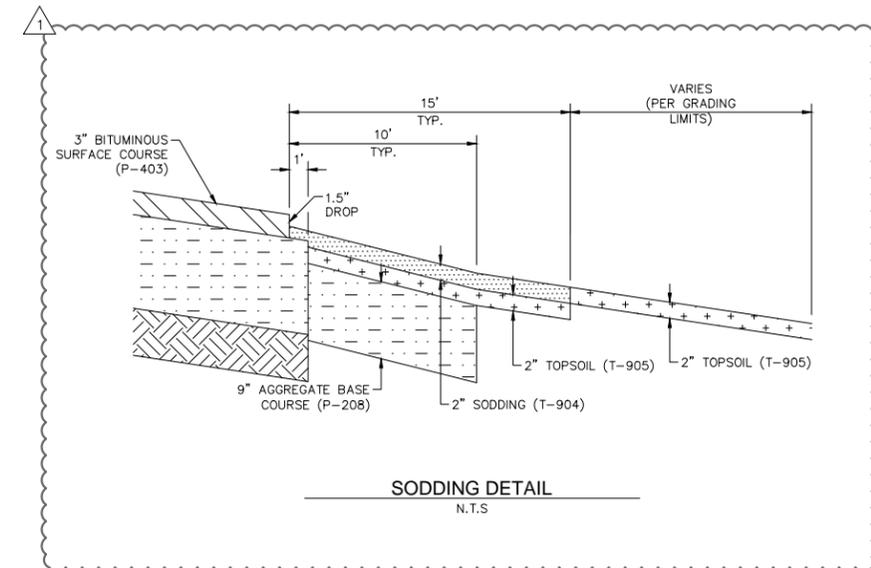
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SHEET NO. 135 OF 157

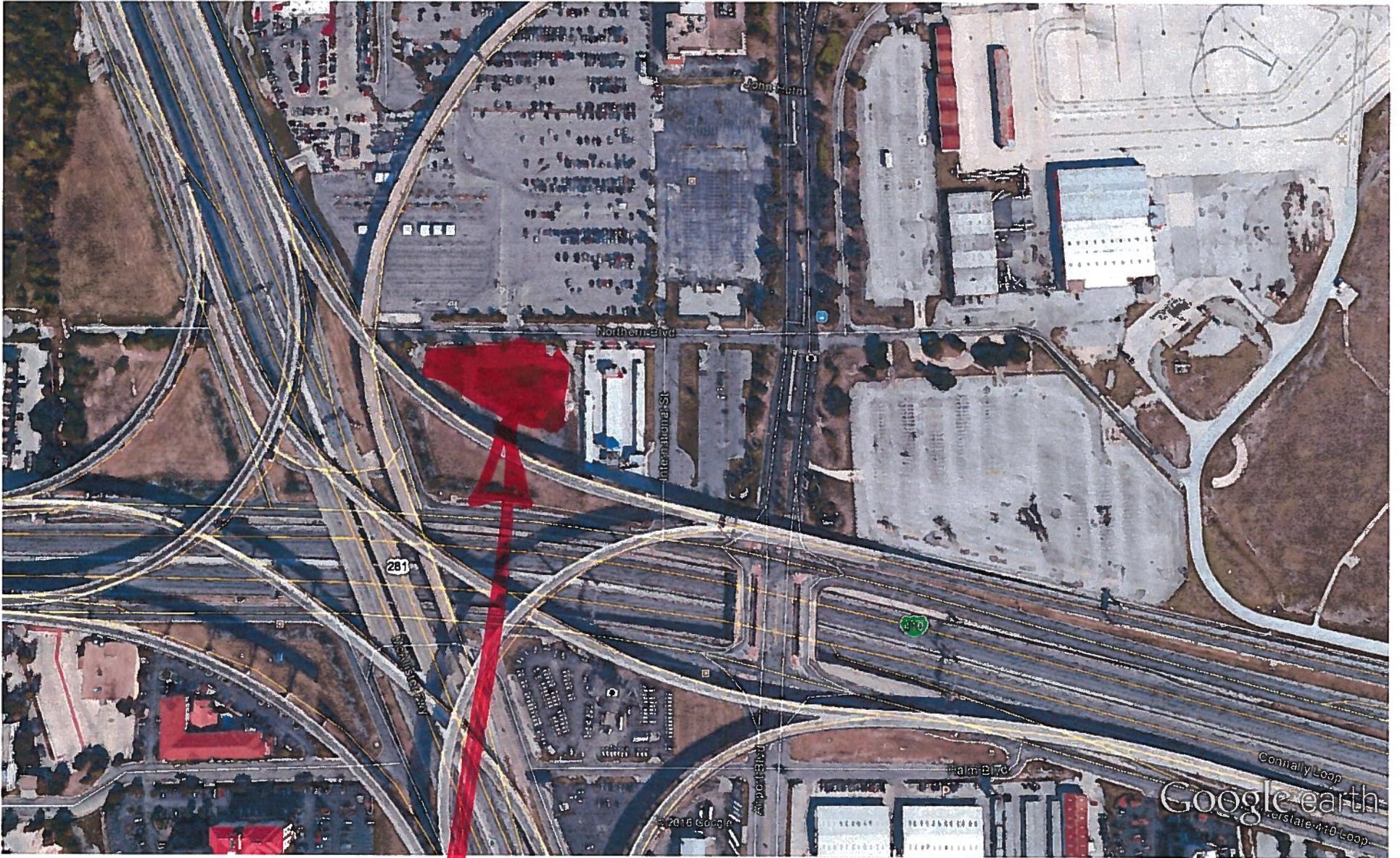


*NOTE: WIDTH AND NUMBER OF PANELS VARY, WITH A MINIMUM OF ZERO. REFERENCE JOINT LAYOUT PLAN

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Google earth

feet
meters

