

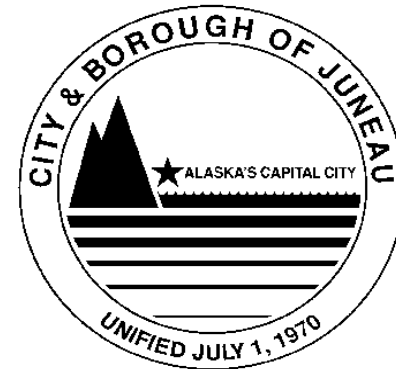
# **JNU RUNWAY SAFETY AREA IMPROVEMENTS, PHASE 2B**

## **VOLUME III of III**

**Contract No. BE17-045**

**AIP No. 3-02-0133-xxx-2016**

File No. 1603



ENGINEERING DEPARTMENT

File: I:\129 dowl engineering\21 juneau\_rso\_phase ii b\working drawings\TITLE, INDEX, AND LEGEND.dwg  
 Script File: LEGEND.dwg  
 Plot Date:

BPN  
 MGL  
 LJS  
 Designed By:  
 Checked By:  
 Drawn By:  
 DOWL File No. 232-89

### SHEET INDEX

SHEET NO.	SHEET TITLE
E01	TITLE, INDEX, AND LEGEND
E02	NW AREA DEMOLITION SITE PLAN
E03	NW AREA DEMOLITION SITE PLAN
E04	NE AREA DEMOLITION SITE PLAN
E05	NE AREA DEMOLITION SITE PLAN
E06	EXISTING TAXIWAY EDGE LIGHT SCHEDULES
E07	EXISTING TAXIWAY SIGN SCHEDULE
E08	NW AREA SITE PLAN
E09	NW AREA SITE PLAN
E10	NE AREA SITE PLAN
E11	NE AREA SITE PLAN
E12	TAXIWAY EDGE LIGHT SCHEDULES
E13	TAXIWAY EDGE LIGHT & REFLECTOR SCHEDULES
E14	TAXIWAY SIGN SCHEDULE
E15	EDGE LIGHT AND HANDHOLE DETAILS
E16	TRENCH DETAILS
E17	GATE DETAILS
E18	GATE SINGLE LINE
E19	GATE CONTROL RISER DIAGRAM
E20	SIGN AND CONNECTOR DETAILS
E21	LOAD CENTER DETAILS
E22	LIGHT POLE DETAILS
E23	OBSTRUCTION LIGHT AND REFLECTOR DETAILS
E24	LUMINAIRE SCHEDULE

# ELECTRICAL DESIGN PLANS FOR

## CITY & BOROUGH OF JUNEAU

### JUNEAU INTERNATIONAL AIRPORT

## RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B

### JUNEAU, ALASKA

### JULY 2016

**GENERAL NOTES:**

1. PROVIDE PERMATAX ANTISEIZE OR EQUAL. APPLY ANTISEIZE TO ALL THREADED FASTENERS BEFORE FINAL ASSEMBLY.
2. PERFORM ALL WORK PER THE NATIONAL ELECTRICAL CODE (NEC).

### LEGEND

ACS	ALASKA COMMUNICATION SYSTEM	GRS	GALVANIZED RIGID STEEL	MIN	MINIMUM	SS	STAINLESS STEEL	
AEL&P	ALASKA ELECTRIC LIGHT & POWER	GND	GROUND	NEC	NATIONAL ELECTRICAL CODE		SWITCH	
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTING	NPT	NATIONAL PIPE THREAD	TL	TAXILANE	
BLDG	BUILDING	HOA	HAND OFF AUTO	NO.	NUMBER	TWY	TAXIWAY	
BRL	BUILDING RESTRICTION LINE	HDPE	HIGH DENSITY POLYETHYLENE	O.C.	ON CENTER	TSA	TAXIWAY SAFETY AREA	
CKT	CIRCUIT		JUNCTION BOX		PHOTOCELL	OFA	OBJECT FREE AREA	
20/2	CIRCUIT BREAKER (AMPS/POLES)	J-BOX	JUNCTION BOX		POLE MOUNTED LUMINAIRE	1/C	ONE CONDUCTOR	
COMM	COMMUNICATION	LT	LEFT	REC	RECEPTACLE		TAXIWAY EDGE LIGHT, 360° BLUE	
C	CONDUIT	LGT	LIGHT	RT	RIGHT		TAXIWAY EDGE REFLECTOR, 360° BLUE	
	CONTACTOR	LTG	LIGHTING	RWY	RUNWAY	XFMR	TRANSFORMER	
DIA	DIAMETER		LIGHTING CONTACTOR		RUNWAY GUARD LIGHT, ELEVATED	TYP	TYPICAL	
	DUPLEX RECEPTACLE	MH	MANHOLE		RUNWAY GUARD LIGHT, IN-PAVEMENT	TYP-#	TYPICAL OF # (TYP-2 = TYPICAL OF 2)	
ELEC	ELECTRIC OR ELECTRICAL	MALSR	MEDIUM APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS	RSA	RUNWAY SAFETY AREA	W/	WITH	
EXTG	EXISTING		METER	RVR	RUNWAY VISUAL RANGE			
FAA	FEDERAL AVIATION ADMINISTRATION							

		SCALE	PLAN PREPARED BY:				<b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 TITLE, INDEX, AND LEGEND	SHEET <b>E01</b> OF 24
BY	DATE	REVISIONS	 2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010	www.dowl.com 4041 B Street Anchorage, Alaska 99503 907-562-2000				

File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 Script File:  
 Plot Date:  
 Designed By: BPN  
 Checked By: MGL  
 Drawn By: LDS  
 DOWL File No. 232-89

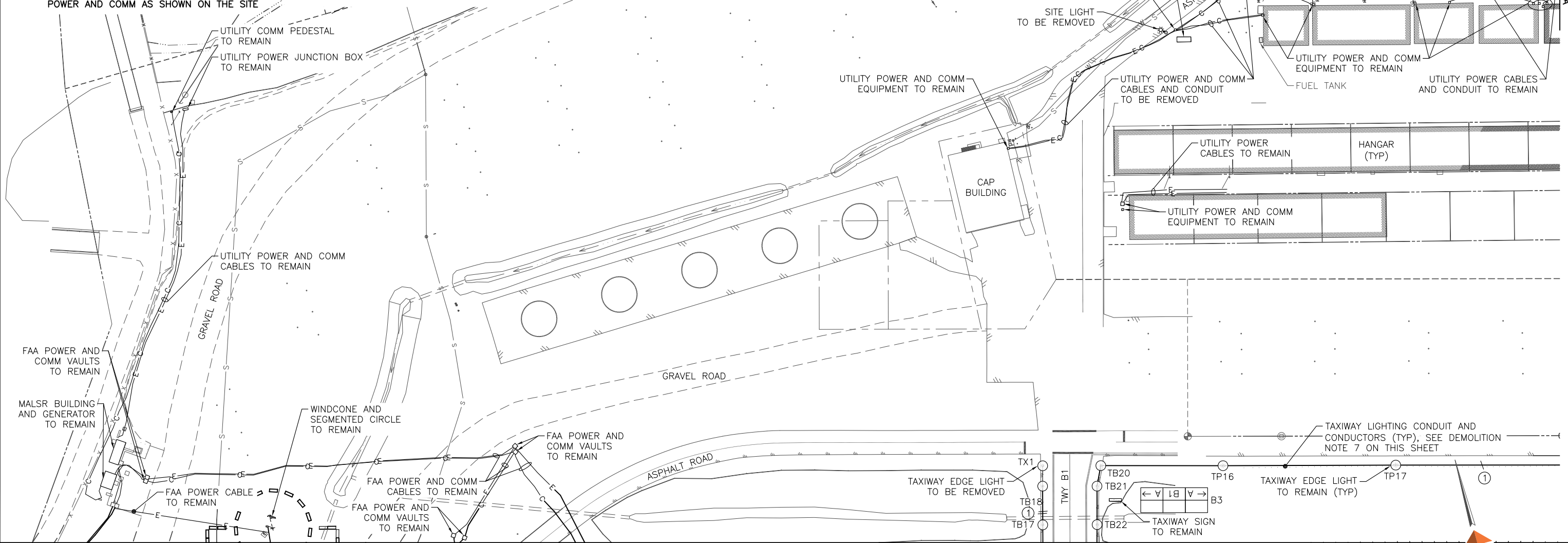
**DEMOLITION NOTES (APPLY TO SHEETS E02-E05):**

- OBTAIN PRIVATE LOCATES IN PROJECT AREA PRIOR TO DIGGING. SOME FAA FACILITIES ARE NOT SHOWN. DO NOT DAMAGE FAA FACILITIES.
- THE EXISTING CONDUIT ROUTING AND CIRCUITING IS BASED UPON EXISTING DRAWINGS AND MAY NOT BE CORRECT. FIELD VERIFY WIRING AND ADJUST ACCORDINGLY.
- ALL EXISTING HANDHOLES ARE TO REMAIN UNLESS NOTED OTHERWISE.
- REMOVE ALL CONDUIT AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE REMOVED. REPOWER EXISTING EQUIPMENT TO REMAIN AS REQUIRED OR AS SHOWN.
- REMOVE EXISTING SITE LIGHTING AS SHOWN. THIS WORK INCLUDES REMOVING LUMINAIRE, LIGHT POLE, LIGHT POLE BASE, CONDUIT, AND WIRING BACK TO LOAD CENTER.
- PAY AEL&P AND ACS TO REMOVE UTILITY POWER AND COMM LOCATED IN NEW LEASE LOT LOCATIONS AND INSTALL NEW UTILITY POWER AND COMM AS SHOWN ON THE SITE

PLANS ON SHEETS E08-E11. OBTAIN LOCATES OF ALL UTILITIES PRIOR TO DEMOLITION AND CONFIRM ROUTING. PAY AEL&P AND ACS FOR ALL UTILITY WORK SHOWN AND REQUIRED.

- REMOVE TAXIWAY EDGE LIGHTS LABELED TX#. THIS WORK INCLUDES REMOVING LIGHT FIXTURE, LIGHT BASE, ISOLATION TRANSFORMER, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO NEXT LIGHT THAT IS SHOWN TO REMAIN. EXISTING CONDUIT MAY BE REROUTED AND EXTENDED TO A NEW LIGHT BASE IF PRACTICAL, OTHERWISE PROVIDE NEW CONDUIT WHEN CONNECTING AN EXISTING LIGHT BASE TO A NEW LIGHT BASE. REPLACE WIRING TO EXISTING LIGHT BASES AS REQUIRED.
- MANY OF THE TAXIWAY EDGE LIGHT BASES ARE ENCASED IN 4" MIN CONCRETE, ALL SIDES. CHIP AWAY THE CONCRETE OR REPLACE THE LIGHT BASE WHEN REMOVING OR CONNECTING CONDUIT TO THE BASE. REPLACE WIRING TO NEXT LIGHT BASE AS REQUIRED.

9. FOR ADDITIONAL INFORMATION ON THE EXISTING TAXIWAY EDGE LIGHTS AND EXISTING TAXIWAY SIGNS, SEE SCHEDULES ON SHEETS E06 AND E07.



**SHEET NOTE:**  
 ① POLE AND LUMINAIRE ALREADY REMOVED, REMOVE LIGHT POLE BASE.

**① NW AREA DEMOLITION SITE PLAN**  
 25' 50' 100'

BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010  
 DATE: 7/16/2016



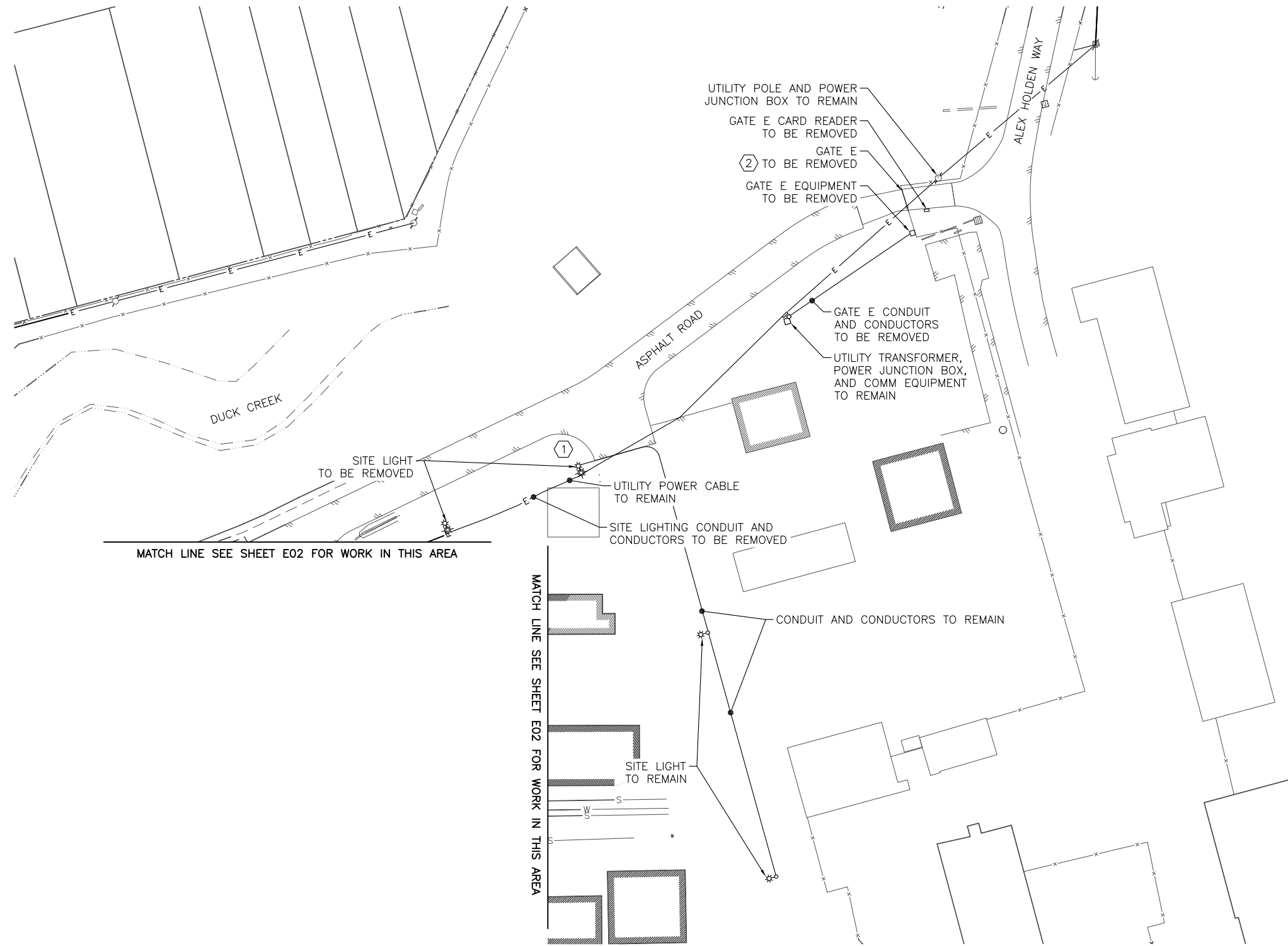
WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NW AREA DEMOLITION SITE PLAN

SHEET	E02
OF	24

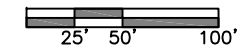
File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 Script File: MCM  
 Plot Date: LDS  
 DOWL File No. 232-89



**SHEET NOTE:**

- ① INTERCEPT CONDUIT AND WIRING FOR LIGHTING CIRCUIT AND ROUTE INTO NEW HANDHOLE AS SHOWN ON SITE PLAN SHEET E09.
- ② REMOVE GATE E AND ALL ELECTRICAL ASSOCIATED WITH GATE E. PAY AEL&P TO REMOVE SERVICE TO GATE E.

① **NW AREA DEMOLITION SITE PLAN**



BY	DATE	REVISIONS

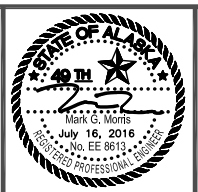
SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP LLC**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



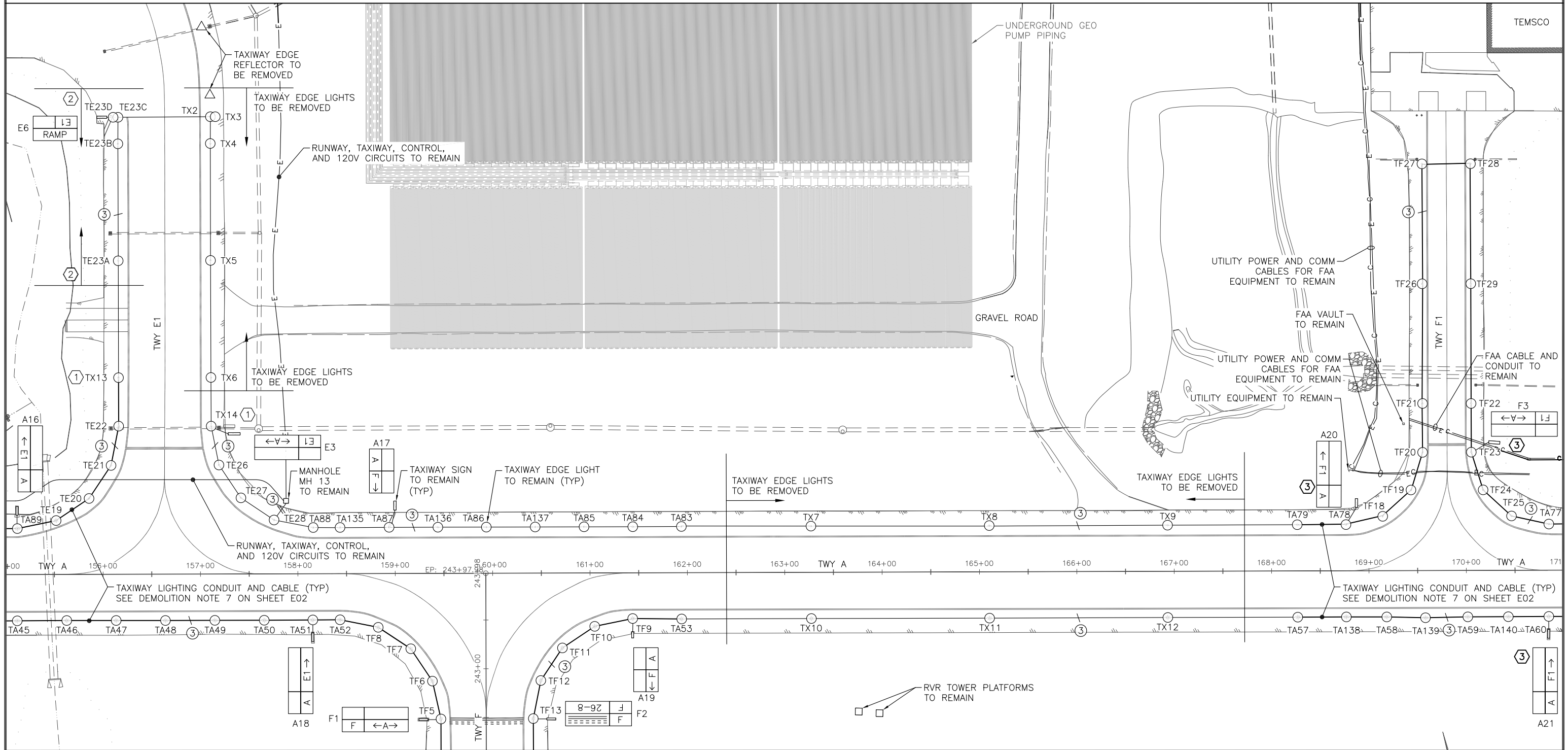
**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS – PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NW AREA DEMOLITION SITE PLAN



MATCH LINE SEE SHEET E05 FOR WORK IN THIS AREA

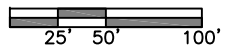
File: Y:\129 dowl engineering\21\_juneau\_rso\_phase ii\_b\_working drawings\SITE PLAN.dwg  
 DWL File No. 232-89  
 Designed By: BPN  
 Checked By: MAM  
 Drawn By: LDS  
 Script File:  
 Plot Date:



SHEET NOTES:

- ① REPLACE TAXIWAY EDGE LIGHT BASES, TX13 AND TX14, WITH NEW L-867 BASES TO ACCOMMODATE NEW CONDUIT CROSSING TAXIWAY E1. SEE NE AREA SITE PLAN ON SHEET E10 FOR NEW CONDUIT AND WIRING ROUTING ON TAXIWAY E1.
- ② CONDUIT AND TAXIWAY EDGE LIGHTS TO REMAIN. CABLE AND GROUND TO BE REMOVED. ROUTE NEW CABLE AND GROUND AS SHOWN ON NE AREA SITE PLAN ON SHEET E10.
- ③ TAXIWAY SIGN TO REMAIN. PANEL TO BE REPLACED. SEE NE SITE PLAN ON SHEET E10 AND SIGN SCHEDULE ON SHEET E14 FOR NEW PANEL.

① NE AREA DEMOLITION SITE PLAN



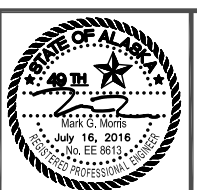
BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL01010

DATE: 7/16/2016



WWW.DOWL.COM

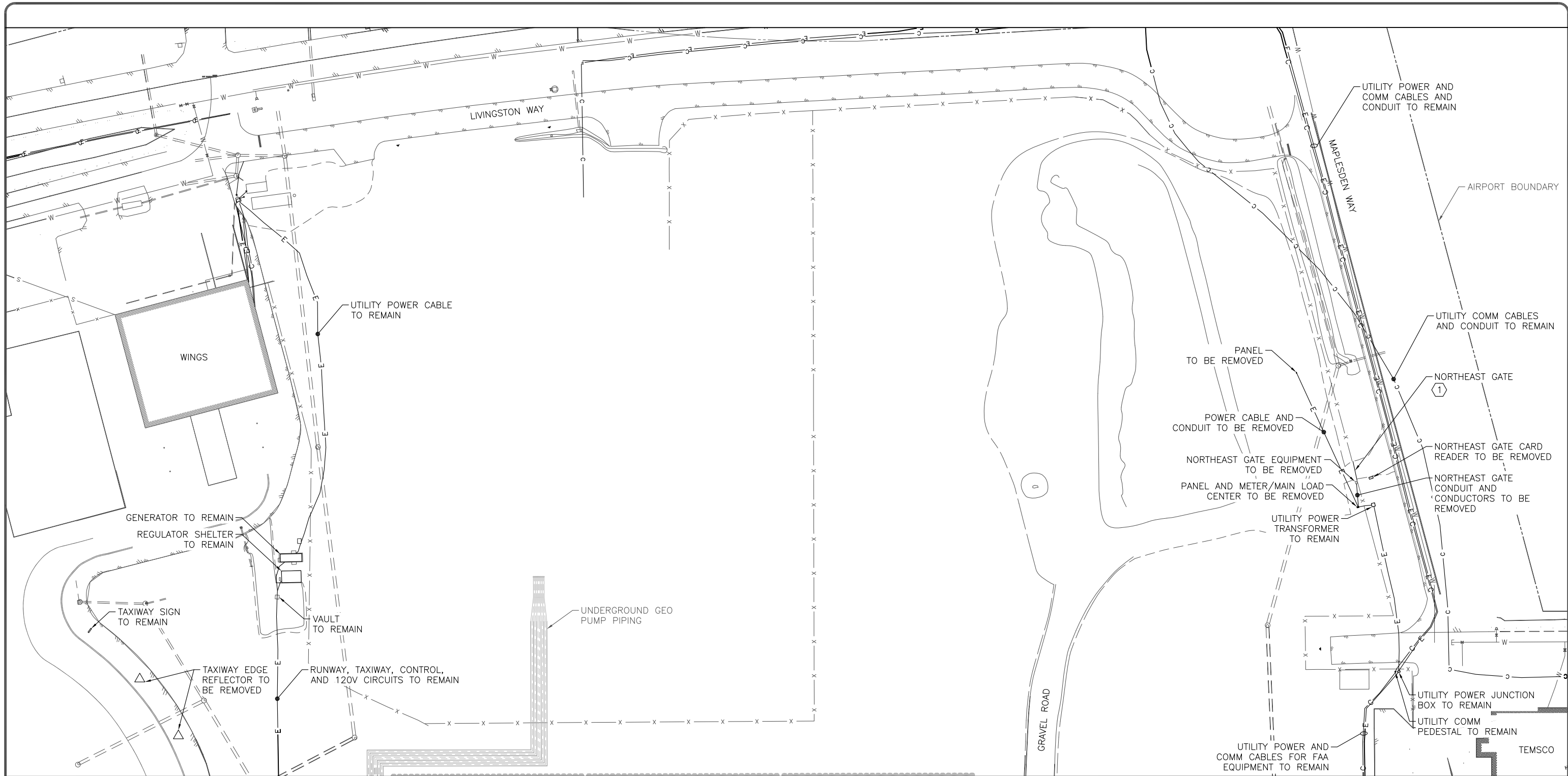
4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NE AREA DEMOLITION SITE PLAN

SHEET	E04
OF	24

File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 Script File:  
 Plot Date:  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS  
 DOWL File No. 232-89

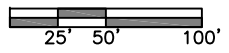


MATCH LINE SEE SHEET E04 FOR WORK IN THIS AREA

**SHEET NOTE:**

- ① GATE TO REMAIN. REMOVE ALL ELECTRICAL ASSOCIATED WITH GATE. PAY AEL&P TO REMOVE SERVICE TO GATE.

① NE AREA DEMOLITION SITE PLAN



BY	DATE	REVISIONS

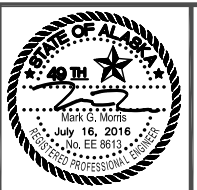
SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP LLC**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS – PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NE AREA DEMOLITION SITE PLAN

SHEET	E05
OF	24

File: \\129-dowl-engineering\21-juneau-rso-phase-ii-b-working-drawings\EXISTING-TAXIWAY-EDGE-LIGHT-SCHEDULES.dwg  
 Script File:  
 Plot Date:  
 DWNL File No. 232-89  
 Designed By: BPN  
 Checked By: MDM  
 Drawn By: LDS

### EXISTING TAXIWAY A EDGE LIGHT SCHEDULE

LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TA45	RUNWAY	55+86.71	350.29' LT	BLUE	L-861T	TO REMAIN
TA46	RUNWAY	56+37.50	350.49' LT	BLUE	L-861T	TO REMAIN
TA47	RUNWAY	56+88.30	350.41' LT	BLUE	L-861T	TO REMAIN
TA48	RUNWAY	57+38.90	350.31' LT	BLUE	L-861T	TO REMAIN
TA49	RUNWAY	57+89.65	350.33' LT	BLUE	L-861T	TO REMAIN
TA50	RUNWAY	58+40.32	350.30' LT	BLUE	L-861T	TO REMAIN
TA51	RUNWAY	58+90.27	350.47' LT	BLUE	L-861T	TO REMAIN
TA52	RUNWAY	59+18.24	350.57' LT	BLUE	L-861T	TO REMAIN
TA53	RUNWAY	62+69.05	350.53' LT	BLUE	L-861T	TO REMAIN
TX10	RUNWAY	64+02.28	350.66' LT	BLUE	L-861T	TO BE REMOVED
TX11	RUNWAY	65+85.26	350.59' LT	BLUE	L-861T	TO BE REMOVED
TX12	RUNWAY	67+68.34	350.84' LT	BLUE	L-861T	TO BE REMOVED
TA57	RUNWAY	69+01.78	350.85' LT	BLUE	L-861T	TO REMAIN
TA58	RUNWAY	69+93.15	350.87' LT	BLUE	L-861T	TO REMAIN
TA59	RUNWAY	70+76.41	350.76' LT	BLUE	L-861T	TO REMAIN
TA60	RUNWAY	71+59.63	350.94' LT	BLUE	L-861T	TO REMAIN
TA77	RUNWAY	71+59.84	446.02' LT	BLUE	L-861T	TO REMAIN
TA78	RUNWAY	69+51.60	445.80' LT	BLUE	L-861T	TO REMAIN
TA79	RUNWAY	69+01.48	445.80' LT	BLUE	L-861T	TO REMAIN
TX9	RUNWAY	67+68.44	445.57' LT	BLUE	L-861T	TO BE REMOVED
TX8	RUNWAY	65+85.11	445.49' LT	BLUE	L-861T	TO BE REMOVED
TX7	RUNWAY	64+02.05	445.37' LT	BLUE	L-861T	TO BE REMOVED
TA83	RUNWAY	62+68.97	445.30' LT	BLUE	L-861T	TO REMAIN
TA84	RUNWAY	62+19.20	445.27' LT	BLUE	L-861T	TO REMAIN
TA85	RUNWAY	61+69.20	445.20' LT	BLUE	L-861T	TO REMAIN
TA86	RUNWAY	60+68.79	445.25' LT	BLUE	L-861T	TO REMAIN
TA87	RUNWAY	59+68.78	445.25' LT	BLUE	L-861T	TO REMAIN
TA88	RUNWAY	58+90.87	445.25' LT	BLUE	L-861T	TO REMAIN
TA89	RUNWAY	55+87.01	445.00' LT	BLUE	L-861T	TO REMAIN
TA135	RUNWAY	59+18.56	445.30' LT	BLUE	L-861T	TO REMAIN
TA136	RUNWAY	60+18.98	445.24' LT	BLUE	L-861T	TO REMAIN
TA137	RUNWAY	61+18.92	445.37' LT	BLUE	L-861T	TO REMAIN
TA138	RUNWAY	69+51.69	351.00' LT	BLUE	L-861T	TO REMAIN
TA139	RUNWAY	70+32.94	349.94' LT	BLUE	L-861T	TO REMAIN
TA140	RUNWAY	71+18.01	350.77' LT	BLUE	L-861T	TO REMAIN

### EXISTING TAXIWAY B EDGE LIGHT SCHEDULE

LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TB17	RUNWAY	4+88.57	561.35' LT	BLUE	L-861T	TO REMAIN
TB18	RUNWAY	5+06.76	586.22' LT	BLUE	L-861T	TO REMAIN
TX1	RUNWAY	5+30.61	606.80' LT	BLUE	L-861T	TO BE REMOVED
TB20	RUNWAY	5+91.09	560.71' LT	BLUE	L-861T	TO REMAIN
TB21	RUNWAY	5+62.28	554.22' LT	BLUE	L-861T	TO REMAIN
TB22	RUNWAY	5+41.50	533.46' LT	BLUE	L-861T	TO REMAIN

### EXISTING TAXIWAY E EDGE LIGHT SCHEDULE

LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TE19	RUNWAY	56+26.89	453.12' LT	BLUE	L-861T	TO REMAIN
TE20	RUNWAY	56+60.63	475.43' LT	BLUE	L-861T	TO REMAIN
TE21	RUNWAY	56+83.29	509.34' LT	BLUE	L-861T	TO REMAIN
TE22	RUNWAY	56+91.45	549.68' LT	BLUE	L-861T	TO REMAIN
TX13	RUNWAY	56+91.28	599.40' LT	BLUE	L-861T	REPLACE L-867 BASE
TE23A	RUNWAY	56+91.33	719.55' LT	BLUE	L-861T	TO REMAIN
TE23B	RUNWAY	56+91.28	839.55' LT	BLUE	L-861T	TO REMAIN
TE23C	RUNWAY	56+91.52	866.75' LT	BLUE	L-861T	TO REMAIN
TE23D	RUNWAY	56+86.47	866.62' LT	BLUE	L-861T	TO REMAIN
TX2	RUNWAY	57+86.28	867.16' LT	BLUE	L-861T	TO BE REMOVED
TX3	RUNWAY	57+91.27	867.29' LT	BLUE	L-861T	TO BE REMOVED
TX4	RUNWAY	57+85.98	839.83' LT	BLUE	L-861T	TO BE REMOVED
TX5	RUNWAY	57+86.18	719.72' LT	BLUE	L-861T	TO BE REMOVED
TX6	RUNWAY	57+86.06	599.70' LT	BLUE	L-861T	TO BE REMOVED
TX14	RUNWAY	57+86.31	549.75' LT	BLUE	L-861T	REPLACE L-867 BASE
TE26	RUNWAY	57+94.24	509.70' LT	BLUE	L-861T	TO REMAIN
TE27	TAXIWAY A	157+41.64	77.84' LT	BLUE	L-861T	TO REMAIN
TE28	RUNWAY	58+50.54	453.09' LT	BLUE	L-861T	TO REMAIN

### EXISTING TAXIWAY F EDGE LIGHT SCHEDULE

LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TF5	RUNWAY	60+21.61	248.50' LT	BLUE	L-861T	TO REMAIN
TF6	RUNWAY	60+12.92	287.41' LT	BLUE	L-861T	TO REMAIN
TF7	RUNWAY	59+90.79	320.70' LT	BLUE	L-861T	TO REMAIN
TF8	RUNWAY	59+57.43	342.71' LT	BLUE	L-861T	TO REMAIN
TF9	RUNWAY	62+18.73	351.13' LT	BLUE	L-861T	TO REMAIN
TF10	RUNWAY	61+79.70	343.23' LT	BLUE	L-861T	TO REMAIN
TF11	RUNWAY	61+46.49	321.11' LT	BLUE	L-861T	TO REMAIN
TF12	RUNWAY	61+24.25	287.79' LT	BLUE	L-861T	TO REMAIN
TF13	RUNWAY	61+16.41	248.67' LT	BLUE	L-861T	TO REMAIN
TF18	RUNWAY	69+89.33	454.09' LT	BLUE	L-861T	TO REMAIN
TF19	RUNWAY	70+18.37	481.05' LT	BLUE	L-861T	TO REMAIN
TF20	RUNWAY	70+30.61	519.80' LT	BLUE	L-861T	TO REMAIN
TF21	RUNWAY	70+30.59	569.83' LT	BLUE	L-861T	TO REMAIN
TF22	RUNWAY	70+80.45	569.25' LT	BLUE	L-861T	TO REMAIN
TF23	RUNWAY	70+80.57	519.89' LT	BLUE	L-861T	TO REMAIN
TF24	RUNWAY	70+92.50	481.24' LT	BLUE	L-861T	TO REMAIN
TF25	RUNWAY	71+21.59	454.64' LT	BLUE	L-861T	TO REMAIN
TF26	RUNWAY	70+30.35	692.63' LT	BLUE	L-861T	TO REMAIN
TF27	RUNWAY	70+30.39	815.74' LT	BLUE	L-861T	TO REMAIN
TF28	RUNWAY	70+80.25	815.76' LT	BLUE	L-861T	TO REMAIN
TF29	RUNWAY	70+80.26	692.63' LT	BLUE	L-861T	TO REMAIN

### EXISTING APRON TAXIWAY EDGE LIGHT SCHEDULE

LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TP16	RUNWAY	7+60.95	560.57' LT	BLUE	L-861T	TO REMAIN
TP17	RUNWAY	9+36.08	560.66' LT	BLUE	L-861T	TO REMAIN

NOTE:

THESE SCHEDULES INCLUDE ONLY THE TAXIWAY EDGE LIGHTS LOCATED WITHIN THE PROJECT AREAS.

BY	DATE	REVISIONS	SCALE	<b>PLAN PREPARED BY:</b>  2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010	 Mark G. Morris July 16, 2016 No. EE 8613 REGISTERED PROFESSIONAL ENGINEER	 www.dowl.com 4041 B Street Anchorage, Alaska 99503 907-562-2000		<b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 EXISTING TAXIWAY EDGE LIGHT SCHEDULES	SHEET <b>E06</b> OF 24
			HORZ. SCALE						


File: J:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\EXISTING TAXIWAY SIGN SCHEDULE.dwg  
 Script File:  
 Plot Date:  
 DOWL File No. 232-09  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS

EXISTING TAXIWAY SIGN SCHEDULE

SIGN NO.	SIZE	FACE NO.	TYPE(S)	PURPOSE	LEGEND	LEGEND COLOR	BACKGROUND COLOR	STATION LINE	STATION	OFFSET	REMARKS
A16	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	← E1   A NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	TO REMAIN
A17	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	A   F → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	TO REMAIN
A18	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	A   E1 → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	TO REMAIN
A19	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	← F   A NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	TO REMAIN
A20	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	← F1   A NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	TO REMAIN*
A21	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	A   F1 → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	TO REMAIN*
B3	2	1 2	L-858Y,L,Y	TAXIWAY DIRECTION, LOCATION, DIRECTION SIGN BLANK PANEL	← A   B1   A → NONE	BLACK, YELLOW, BLACK NONE	YELLOW, BLACK, YELLOW NONE	TAXIWAY A	-	-	TO REMAIN
E3	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	E1   ← A → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	TO REMAIN
E6	2	1 2	L-858Y	INBOUND DESTINATION SIGN TAXIWAY LOCATION SIGN	RAMP E1	BLACK YELLOW, NONE	YELLOW BLACK, BLACK	RUNWAY	56+77.36	866.86' LT	TO REMAIN
F1	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	F   ← A → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY F	-	-	TO REMAIN
F2	2	1 2	L-858Y,L L-858L,R	BOUNDARY, TAXIWAY LOCATION SIGN TAXIWAY LOCATION, MANDATORY INSTRUCTION SIGN	===== F F   26-8	BLACK, YELLOW YELLOW, WHITE	YELLOW, BLACK BLACK, RED	TAXIWAY F	-	-	TO REMAIN
F3	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	F1   ← A → NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	TO REMAIN*

NOTES:

1. AN \* UNDER REMARKS IN THE SCHEDULE INDICATES THE TAXIWAY SIGN IS TO REMAIN AND A PANEL IS TO BE REPLACED AS SHOWN IN THE TAXIWAY SIGN SCHEDULE ON SHEET E14.
2. THIS SCHEDULE INCLUDES ONLY THE EXISTING TAXIWAY SIGNS LOCATED WITHIN THE PROJECT AREAS.

BY		DATE	REVISIONS	SCALE	<b>PLAN PREPARED BY:</b>  2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010 W.O. NO. D60633 FILE NO.	 Mark G. Morris July 16, 2016 No. EE 8613 REGISTERED PROFESSIONAL ENGINEER	 www.dowl.com 4041 B Street Anchorage, Alaska 99503 907-562-2000		<b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS – PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 EXISTING TAXIWAY SIGN SCHEDULE	SHEET <b>E07</b> OF 24
----	--	------	-----------	-------	--	---	---	---	---	---------------------------------

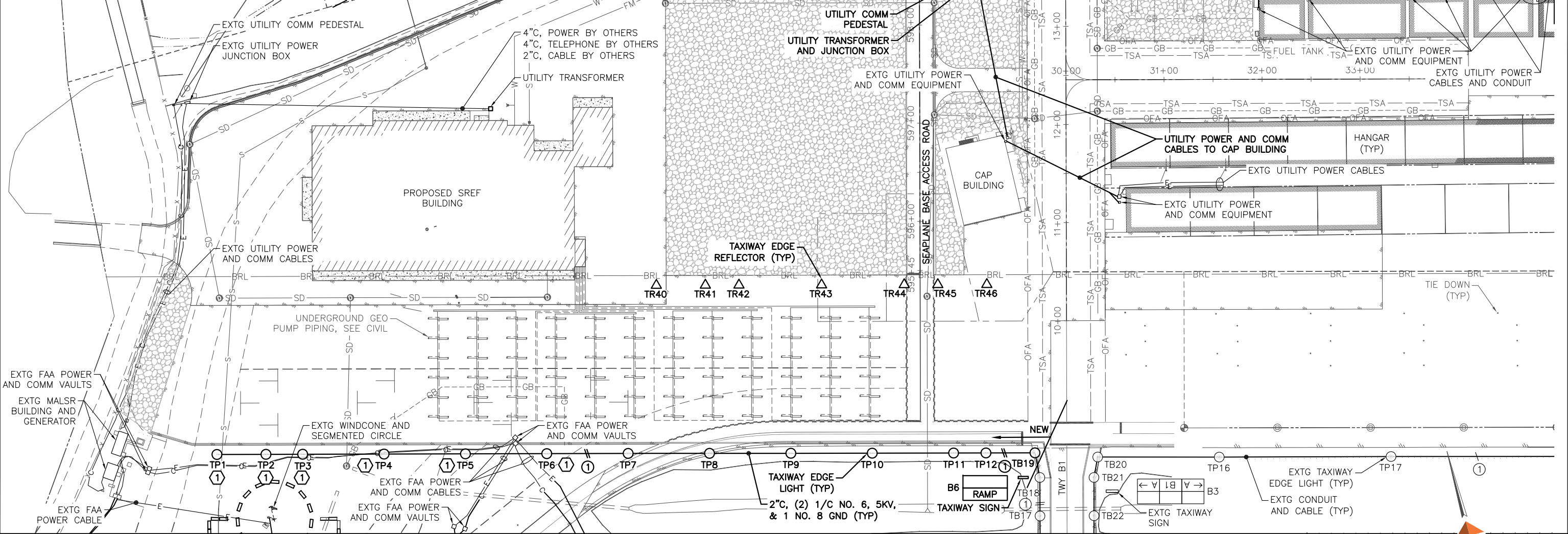


**CONSTRUCTION NOTES**  
(APPLY TO SHEETS E08-E11):

- OBTAIN PRIVATE LOCATES IN PROJECT AREA PRIOR TO DIGGING. SOME FAA FACILITIES ARE NOT SHOWN. DO NOT DAMAGE FAA FACILITIES.
- THE EXISTING CONDUIT ROUTING AND CIRCUITING IS BASED UPON EXISTING DRAWINGS AND MAY NOT BE CORRECT. FIELD VERIFY WIRING AND ADJUST ACCORDINGLY.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- PAY AEL&P AND ACS TO RELOCATE AND REROUTE NEW UTILITY POWER AND COMM AS SHOWN. PAY AEL&P AND ACS FOR ALL UTILITY WORK SHOWN AND REQUIRED.
- PROVIDE NEW SITE LIGHTING PER LUMINAIRE AND LIGHT POLE SCHEDULES ON SHEET E24, AND DETAIL ON SHEETS E22 AND E23.
- PROVIDE NEW TAXIWAY SIGNS PER TAXIWAY SIGN SCHEDULE ON SHEET E14 AND DETAILS ON SHEET E20. PROVIDE NEW CONDUIT AND WIRING FROM CLOSEST TAXIWAY EDGE LIGHT

- REPLACE TAXIWAY EDGE LIGHTS AND PROVIDE NEW TAXIWAY LIGHTS PER TAXIWAY EDGE LIGHT SCHEDULES ON SHEETS E12 AND E13 AND DETAILS ON SHEET E15. PROVIDE NEW LIGHT FIXTURE, ISOLATION TRANSFORMER, L-867 BASE, CONDUIT, AND WIRING. PROVIDE NEW CONDUIT BETWEEN EXISTING LIGHT BASES AND NEW LIGHT BASES, OR REROUTE AND EXTEND EXISTING CONDUIT INTO NEW LIGHT BASES WHERE POSSIBLE. PROVIDE NEW WIRING BETWEEN EXISTING LIGHT BASES AND NEW LIGHT BASES.
- MANY OF THE TAXIWAY EDGE LIGHT BASES ARE ENCASED IN 4" MIN CONCRETE, ALL SIDES. CHIP AWAY THE CONCRETE OR REPLACE THE LIGHT BASE WHEN REMOVING OR CONNECTING CONDUIT TO THE BASE. REPLACE WIRING TO NEXT LIGHT BASE AS REQUIRED.
- ALL CONDUIT BETWEEN NEW LIGHT BASES, AS WELL AS BETWEEN NEW AND EXISTING BASES, HAND HOLES, AND SIGNS, SHALL BE 2" HDPE

- WITH 1/C NO. 6, 5KV CABLE (QUANTITY AS REQUIRED FOR CIRCUITING SHOWN) AND 1 NO. 8 GND. USE GRS WHEN CROSSING TAXIWAY. USE HDPE ELSEWHERE. PROVIDE NEW CONDUIT, WIRING, ETC UNLESS OTHERWISE NOTED.
- STAMP LIGHT OR SIGN NO. ON BASE COVER AND ON FLANGE OF L-867 BASE FOR ALL NEW LIGHTS AND SIGNS.
- PROVIDE TAXIWAY EDGE REFLECTORS PER SCHEDULE ON SHEET E13 AND DETAIL ON SHEET E23.

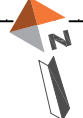
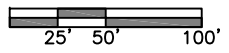


**SHEET NOTE:**

① INSTALL TAXIWAY EDGE LIGHTS WHERE SHOWN. USE EXTREME CAUTION TO AVOID DAMAGING EXISTING FAA UNDERGROUND FACILITIES. IF A CONFLICT OCCURS WITH EXISTING FAA FACILITIES, COORDINATE WITH OWNER TO ADJUST TAXIWAY EDGE LIGHT LOCATION. RELOCATE FAA FACILITIES AS MUCH AS PRACTICAL, IF NEEDED (EXPOSE CONDUIT AND MOVE IT LATERALLY AS MUCH AS PRACTICAL. COORDINATE WITH FAA BEFORE WORKING ON THEIR

EQUIPMENT).

**① NW AREA SITE PLAN**



BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP LLC**

2375 Jordan Avenue #7, Juneau, AK 99801  
Phone: 907-789-3350, License: AECL010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
Anchorage, Alaska 99503  
907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
CONTRACT NO. BE-17-045  
AIP No. 3-02-0133-XXX-2016  
NW AREA SITE PLAN

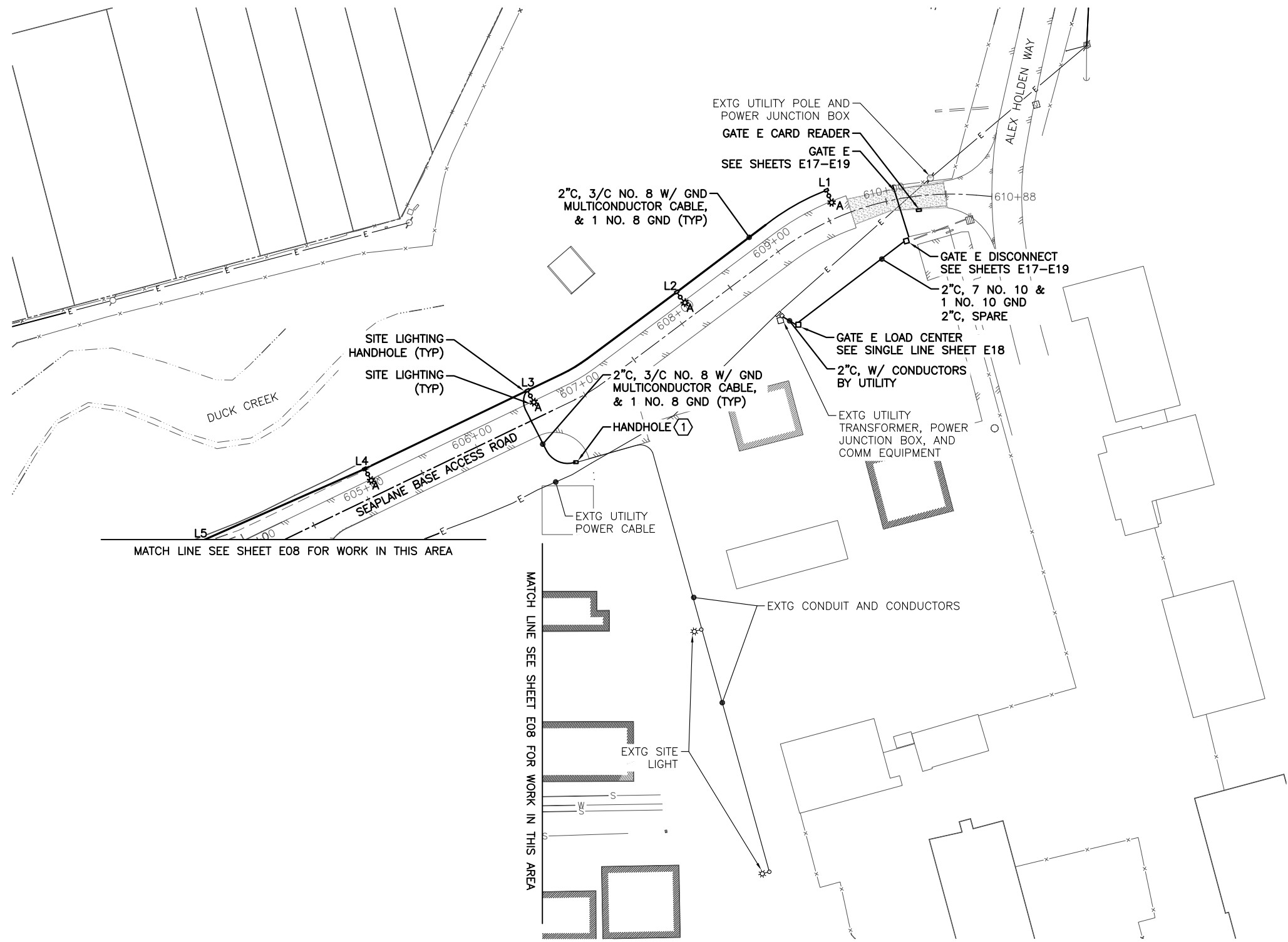
SHEET	E08
OF	24

File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 Designed By: BPN  
 Checked By: MAM  
 Drawn By: LDS  
 DOWL File No. 232-89  
 Plot Date:

MATCH LINE SEE SHEET E09 FOR WORK IN THIS AREA

MATCH LINE SEE SHEET E09 FOR WORK IN THIS AREA

File: \\129-dowl-engineering\21-juneau-rsa-phase-ii-b-working-drawings\SITE-PLAN.dwg  
 Script File: MCM  
 Plot Date: LJS  
 DWG File No. 232-89  
 Designed By: MCM  
 Checked By: LJS  
 Drawn By: LJS



NOTE:  
 ① INTERCEPT EXISTING CONDUIT AND WIRING AND ROUTE INTO NEW HANDHOLE. ROUTE NEW CONDUIT AND CABLE TO NEW HANDHOLE AS SHOWN. SPLICE NEW AND EXISTING CONDUCTORS TOGETHER IN HANDHOLE TO MAINTAIN POWER TO EXISTING LIGHTS.

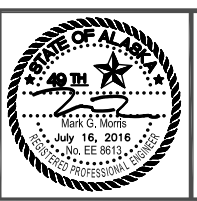
① NW AREA SITE PLAN  
 25' 50' 100'



BY	DATE	REVISIONS

SCALE  
 HORZ. SCALE  
 VERT. SEE GRAPHIC  
 W.O. NO. D60633  
 FILE NO.

PLAN PREPARED BY:  
**MORRIS ENGINEERING GROUP LLC**  
 2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010  
 DATE: 7/16/2016



**DOWL**  
 WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



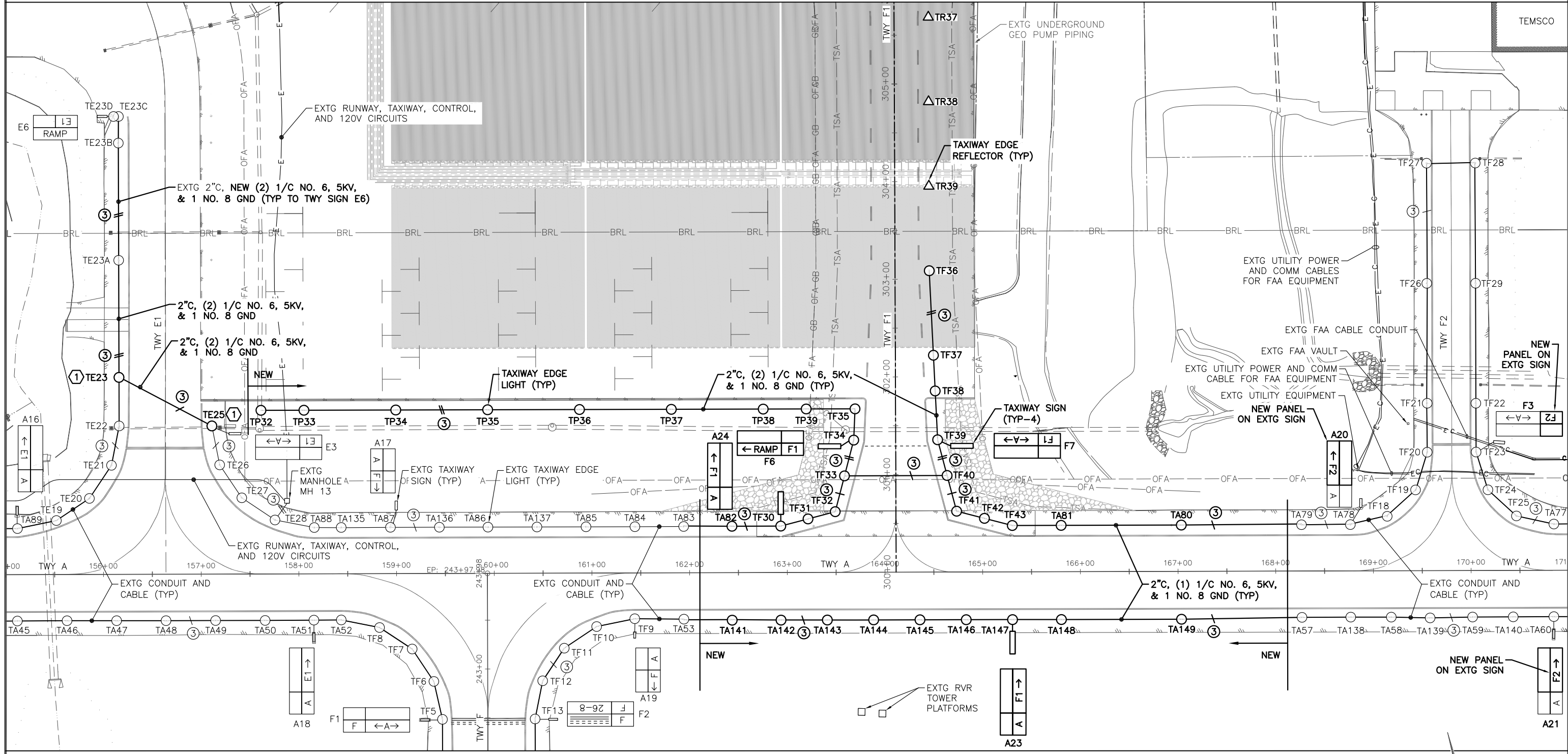
**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NW AREA SITE PLAN

SHEET  
 E09  
 OF  
 24



MATCH LINE SEE SHEET E11 FOR WORK IN THIS AREA

File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 D:\DWG File No. 232-89  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS  
 Plot Date:



**SHEET NOTE:**  
 ① PROVIDE NEW LIGHT BASES FOR TAXIWAY EDGE LIGHTS TE23 AND TE25. ROUTE NEW CONDUIT AND WIRING UNDER TAXIWAY BETWEEN TE23 AND TE25 AS SHOWN.

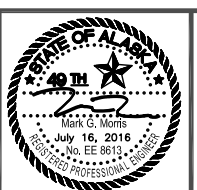
① NE AREA SITE PLAN

BY	DATE	REVISIONS

SCALE  
 HORZ. SCALE  
 VERT. SEE GRAPHIC  
 W.O. NO. D60633  
 FILE NO.

**PLAN PREPARED BY:**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010  
 DATE: 7/16/2016



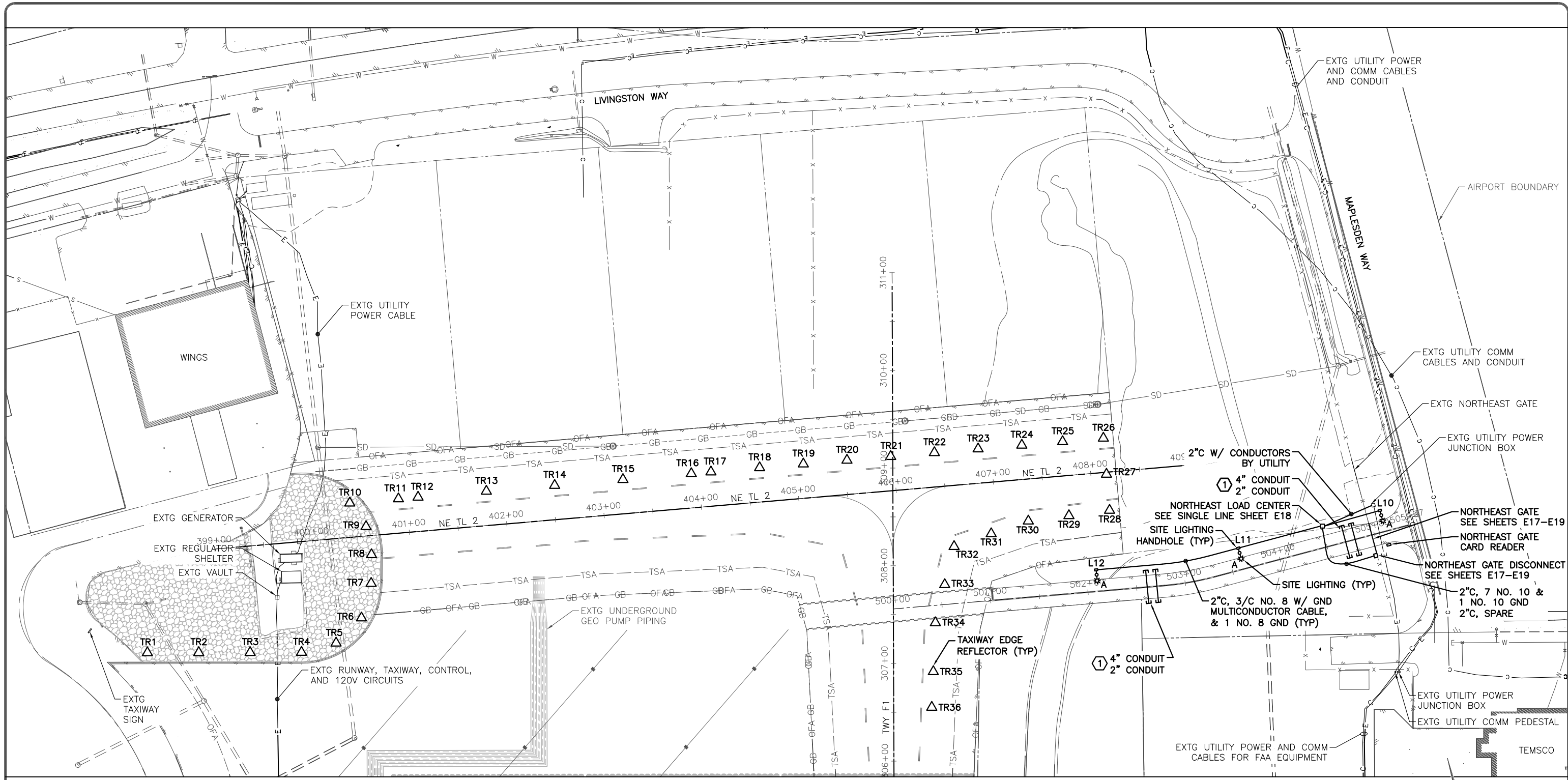
WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NE AREA SITE PLAN

SHEET  
**E10**  
 OF  
 24

File: Y:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SITE\_PLAN.dwg  
 Script File:  
 Plot Date:  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS  
 DOWL File No. 232-89

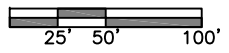


MATCH LINE SEE SHEET E10 FOR WORK IN THIS AREA

SHEET NOTES:

- 1 ROUTE ONE 4" CONDUIT AND ONE 2" CONDUIT UNDERNEATH ACCESS ROAD, WHERE SHOWN, FOR FUTURE USE BY UTILITY.
2. INSTALL L-810 LED OBSTRUCTION LIGHTS ON POLES L10 THROUGH L12 PER DETAILS ON SHEET E23.

1 NE AREA SITE PLAN

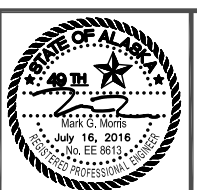


BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010  
 DATE: 7/16/2016



WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 NE AREA SITE PLAN

SHEET	E11
OF	24





File: I:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_11\_b\_working\_drawings\taxiway\_edge\_light\_and\_reflector\_schedules.dwg  
 Script File: AND REFLECTOR SCHEDULES.dwg  
 Plot Date: 2/23/2016 10:58:48 AM  
 DWNL File No. 232-89  
 Designed By: BPN  
 Checked By: MDM  
 Drawn By: DJS

APRON TAXIWAY EDGE LIGHT SCHEDULE						
LIGHT NO.	STATION LINE	STATION	OFFSET	LENS COLOR	TYPE	REMARKS
TP1	RUNWAY	-2+61.12	565.75' LT	BLUE	L-861T	
TP2	RUNWAY	-2+11.11	565.75' LT	BLUE	L-861T	
TP3	RUNWAY	-1+73.66	565.75' LT	BLUE	L-861T	
TP4	RUNWAY	-0+90.69	565.75' LT	BLUE	L-861T	
TP5	RUNWAY	-0+7.73	565.75' LT	BLUE	L-861T	
TP6	RUNWAY	0+75.24	565.75' LT	BLUE	L-861T	
TP7	RUNWAY	1+58.21	565.75' LT	BLUE	L-861T	
TP8	RUNWAY	2+41.17	565.65' LT	BLUE	L-861T	
TP9	RUNWAY	3+24.14	565.50' LT	BLUE	L-861T	
TP10	RUNWAY	4+7.10	565.45' LT	BLUE	L-861T	
TP11	RUNWAY	4+90.07	565.40' LT	BLUE	L-861T	
TP12	RUNWAY	5+23.03	565.38' LT	BLUE	L-861T	
TP16	RUNWAY	7+60.95	560.57' LT	BLUE	L-861T	EXISTING
TP17	RUNWAY	9+36.08	560.66' LT	BLUE	L-861T	EXISTING
TP32	TAXIWAY A	157+61.45	167.59' LT	BLUE	L-861T	
TP33	TAXIWAY A	158+5.61	167.59' LT	BLUE	L-861T	
TP34	TAXIWAY A	158+99.64	167.56' LT	BLUE	L-861T	
TP35	TAXIWAY A	159+93.67	167.53' LT	BLUE	L-861T	
TP36	TAXIWAY A	160+87.53	167.49' LT	BLUE	L-861T	
TP37	TAXIWAY A	161+81.72	167.46' LT	BLUE	L-861T	
TP38	TAXIWAY A	162+75.75	167.43' LT	BLUE	L-861T	
TP39	TAXIWAY A	163+19.68	167.43' LT	BLUE	L-861T	

TAXIWAY REFLECTOR SCHEDULE						
REFLECTOR NO.	STATION LINE	STATION	OFFSET	REFLECTOR COLOR	TYPE	REMARKS
TR1	NE TL 2	398+22.16	99.92' RT	BLUE	L-853	SOIL MOUNT
TR2	NE TL 2	398+74.56	104.29' RT	BLUE	L-853	SOIL MOUNT
TR3	NE TL 2	399+26.95	108.67' RT	BLUE	L-853	SOIL MOUNT
TR4	NE TL 2	399+79.35	113.04' RT	BLUE	L-853	SOIL MOUNT
TR5	NE TL 2	400+15.43	106.63' RT	BLUE	L-853	SOIL MOUNT
TR6	NE TL 2	400+43.60	83.18' RT	BLUE	L-853	SOIL MOUNT
TR7	NE TL 2	400+56.45	48.86' RT	BLUE	L-853	SOIL MOUNT
TR8	NE TL 2	400+59.36	19.54' RT	BLUE	L-853	SOIL MOUNT
TR9	NE TL 2	400+56.23	9.58' LT	BLUE	L-853	SOIL MOUNT
TR10	NE TL 2	400+41.69	35.00' LT	BLUE	L-853	SOIL MOUNT
TR11	NE TL 2	400+91.69	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR12	NE TL 2	401+11.88	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR13	NE TL 2	401+82.06	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR14	NE TL 2	402+52.24	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR15	NE TL 2	403+22.43	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR16	NE TL 2	403+92.61	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR17	NE TL 2	404+12.79	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR18	NE TL 2	404+62.79	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR19	NE TL 2	405+7.69	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR20	NE TL 2	405+52.60	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR21	NE TL 2	405+97.50	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR22	NE TL 2	406+42.20	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR23	NE TL 2	406+87.30	35.00' LT	BLUE	L-853	PAVEMENT MOUNT

TAXIWAY REFLECTOR SCHEDULE						
REFLECTOR NO.	STATION LINE	STATION	OFFSET	REFLECTOR COLOR	TYPE	REMARKS
TR24	NE TL 2	407+32.20	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR25	NE TL 2	407+74.12	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR26	NE TL 2	408+16.03	35.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR27	NE TL 2	408+16.02	2.06' RT	BLUE	L-853	PAVEMENT MOUNT
TR28	NE TL 2	408+16.01	39.11' RT	BLUE	L-853	PAVEMENT MOUNT
TR29	NE TL 2	407+74.11	41.03' RT	BLUE	L-853	PAVEMENT MOUNT
TR30	TAXIWAY F1	308+45.20	138.52' RT	BLUE	L-853	PAVEMENT MOUNT
TR31	TAXIWAY F1	308+32.31	100.45' RT	BLUE	L-853	PAVEMENT MOUNT
TR32	TAXIWAY F1	308+19.43	62.38' RT	BLUE	L-853	PAVEMENT MOUNT
TR33	TAXIWAY F1	307+80.43	52.67' RT	BLUE	L-853	PAVEMENT MOUNT
TR34	TAXIWAY F1	307+41.43	42.94' RT	BLUE	L-853	PAVEMENT MOUNT
TR35	TAXIWAY F1	306+91.43	40.66' RT	BLUE	L-853	PAVEMENT MOUNT
TR36	TAXIWAY F1	306+54.87	38.99' RT	BLUE	L-853	PAVEMENT MOUNT
TR37	TAXIWAY F1	305+68.31	35.03' RT	BLUE	L-853	PAVEMENT MOUNT
TR38	TAXIWAY F1	304+81.75	34.98' RT	BLUE	L-853	PAVEMENT MOUNT
TR39	TAXIWAY F1	303+95.19	34.99' RT	BLUE	L-853	PAVEMENT MOUNT
TR40	RUNWAY	1+87.40	737.00' LT	BLUE	L-853	PAVEMENT MOUNT
TR41	RUNWAY	2+37.40	737.01' LT	BLUE	L-853	PAVEMENT MOUNT
TR42	RUNWAY	2+71.65	737.01' LT	BLUE	L-853	PAVEMENT MOUNT
TR43	RUNWAY	3+55.90	737.01' LT	BLUE	L-853	PAVEMENT MOUNT
TR44	RUNWAY	4+40.15	737.02' LT	BLUE	L-853	PAVEMENT MOUNT
TR45	RUNWAY	4+74.39	737.02' LT	BLUE	L-853	PAVEMENT MOUNT
TR46	RUNWAY	5+24.39	737.02' LT	BLUE	L-853	PAVEMENT MOUNT

NOTE:

THIS SCHEDULE INCLUDES ONLY THE APRON TAXIWAY EDGE LIGHTS LOCATED WITHIN THE PROJECT AREAS.

BY	DATE	REVISIONS

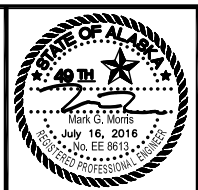
SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:



2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016




www.dowl.com

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 TAXIWAY EDGE LIGHT & REFLECTOR SCHEDULES

File: I:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\TAXIWAY\_SIGN\_SCHEDULE.dwg  
 Script File: SCHEDULE.dwg  
 Plot Date: 7/16/2016  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS  
 DOWL File No. 232-89

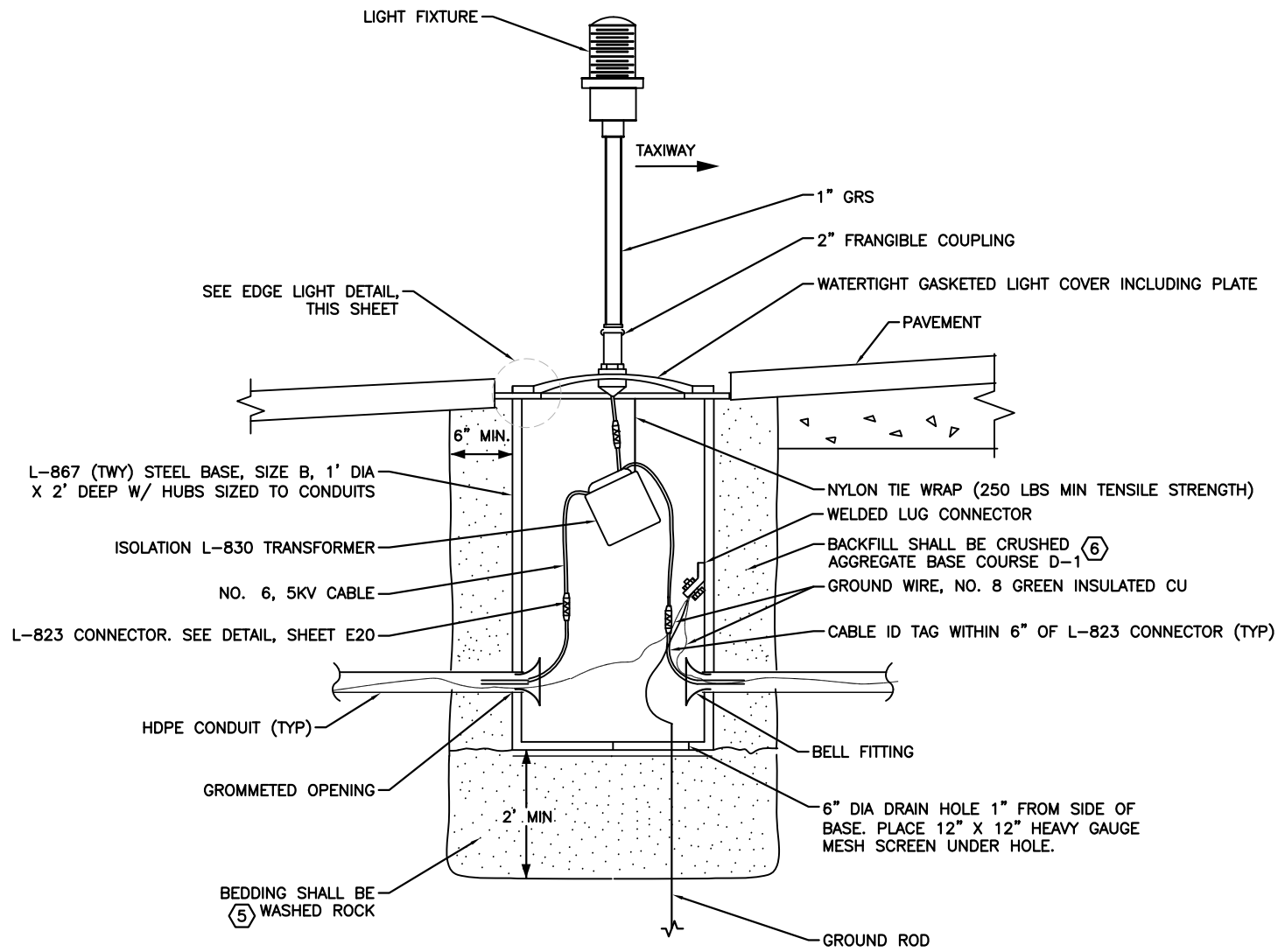
TAXIWAY SIGN SCHEDULE											
SIGN NO.	SIZE	FACE NO.	TYPE(S)	PURPOSE	LEGEND	LEGEND COLOR	BACKGROUND COLOR	STATION LINE	STATION	OFFSET	REMARKS
A16	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	EXISTING
A17	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	EXISTING
A18	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	EXISTING
A19	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	EXISTING
A20	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	-	-	EXISTING*
A21	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	EXISTING*
A23	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	165+30.37	60.95' RT	
A24	2	1 2	L-858Y,L	TAXIWAY DIRECTION, LOCATION SIGN BLANK PANEL	NONE	BLACK, YELLOW NONE	YELLOW, BLACK BLACK	TAXIWAY A	162+93.50	59.52' LT	
B3	2	1 2	L-858Y,L,Y	TAXIWAY DIRECTION, LOCATION, DIRECTION SIGN BLANK PANEL	NONE	BLACK, YELLOW, BLACK NONE	YELLOW, BLACK, YELLOW NONE	TAXIWAY A	-	-	EXISTING
B6	2	1 2	L-858Y	INBOUND DESTINATION SIGN BLANK PANEL	NONE	BLACK NONE	YELLOW BLACK	RUNWAY	5+66.17	540.22' LT	
E3	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	EXISTING
E6	2	1 2	L-858Y	INBOUND DESTINATION SIGN TAXIWAY LOCATION SIGN	NONE NONE	BLACK YELLOW, NONE	YELLOW BLACK, BLACK	RUNWAY	56+77.36	866.86' LT	EXISTING
F1	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY F	-	-	EXISTING
F2	2	1 2	L-858Y,L L-858L,R	BOUNDARY, TAXIWAY LOCATION SIGN TAXIWAY LOCATION, MANDATORY INSTRUCTION SIGN	NONE NONE	BLACK, YELLOW YELLOW, WHITE	YELLOW, BLACK BLACK, RED	TAXIWAY F	-	-	EXISTING
F3	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW BLACK	TAXIWAY A	-	-	EXISTING*
F6	2	1 2	L-858Y,L	INBOUND DESTINATION, TAXIWAY LOCATION SIGN BLANK PANEL	NONE	BLACK, YELLOW NONE	YELLOW, BLACK NONE	TAXIWAY F1	301+29.20	56.25' LT	
F7	2	1 2	L-858L,Y	TAXIWAY LOCATION, DIRECTION SIGN BLANK PANEL	NONE	YELLOW, BLACK NONE	BLACK, YELLOW NONE	TAXIWAY F1	301+29.20	56.25' RT	

NOTES:

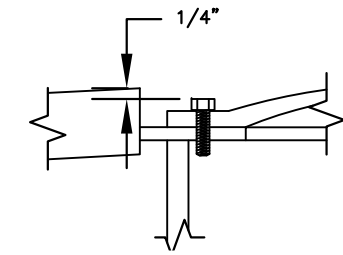
1. AN \* UNDER REMARKS IN THE SCHEDULE INDICATES THE TAXIWAY SIGN IS TO REMAIN AND A PANEL IS TO BE REPLACED AS SHOWN.
2. ALL NEW SIGNS SHALL BE LED.
3. THIS SCHEDULE INCLUDES ONLY THE TAXIWAY SIGNS LOCATED WITHIN THE PROJECT AREAS.

BY		DATE	REVISIONS	SCALE	<b>PLAN PREPARED BY:</b>  2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010 DATE: 7/16/2016	 <b>DOWL</b> WWW.DOWL.COM 4041 B Street Anchorage, Alaska 99503 907-562-2000	 <b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 TAXIWAY SIGN SCHEDULE	SHEET <b>E14</b> OF 24
----	--	------	-----------	-------	--	---	--	---------------------------------

File: \\129.dowl\engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\EDGE\_LIGHT\_AND\_HANDHOLE\_DETAILS.dwg  
 Plot Date:

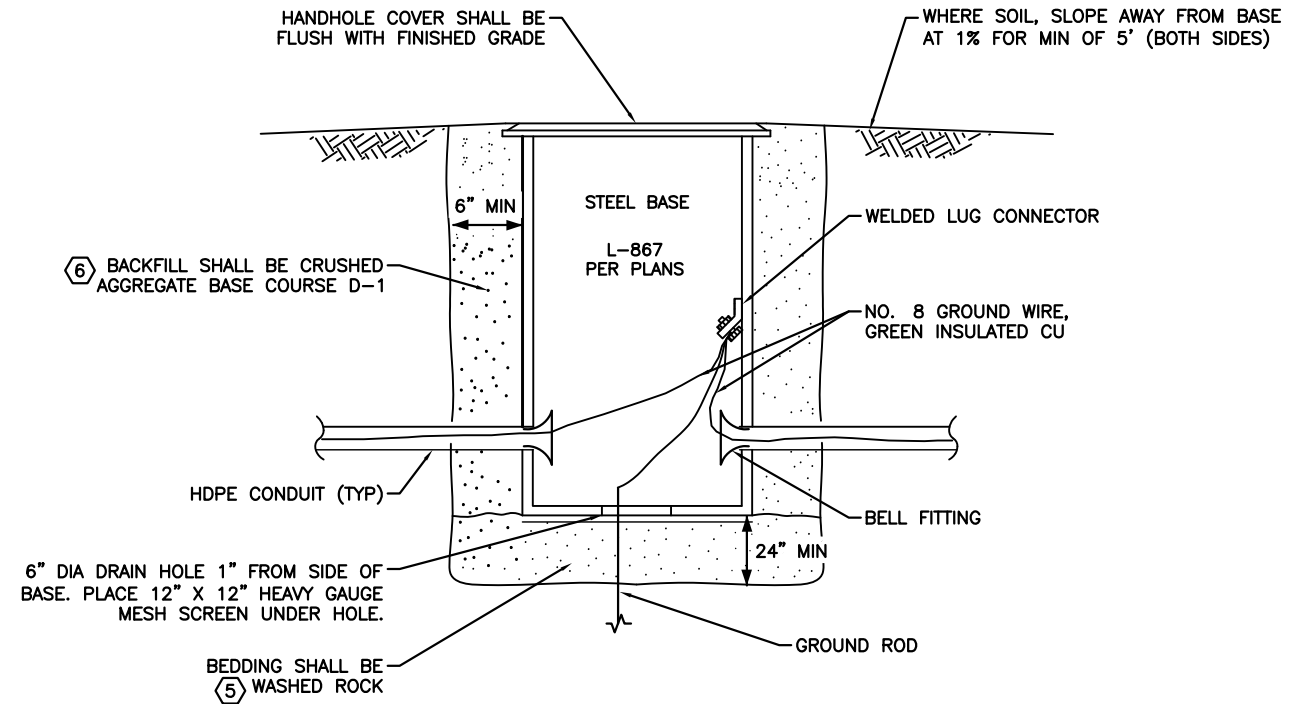


① ELEVATED TAXIWAY EDGE LIGHT DETAIL (TYP)  
NO SCALE



NOTE:  
SET LIGHT BASE TO PROVIDE 1/4" BELOW ASPHALT TO TOP OF BOLT.

② EDGE LIGHT DETAIL - EXPLODED VIEW  
NO SCALE



③ HANDHOLE DETAIL (TYP)  
NO SCALE

SHEET NOTES:

- PROVIDE WITH STAINLESS STEEL HARDWARE.
  - LOOP CABLE IN L-867 BASE TO ALLOW THE COVER TO BE REMOVED 24" ABOVE GRADE.
  - PROVIDE THE NUMBER OF CONDUIT OPENINGS ON THE L-867 BASE AS NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS. PROVIDE TRENCHING & BACKFILL PER DETAILS ON SHEET E16.
  - TAXIWAY EDGE LIGHT SHALL BE LED (100,000 HR LIFE), L-861T. IT SHALL HAVE SAME OVERALL SILHOUETTE AS QUARTZ LIGHTS FOR A SIMILAR APPEARANCE. THE HEIGHT SHALL BE 24". THE LIGHT SHALL OPERATE AT 6.6A W/ L-823 PLUG ASSEMBLY FOR CONNECTION TO A L-830 ISOLATION TRANSFORMER. IT SHALL CREATE NO INTERFERENCE WITH THE CONSTANT CURRENT REGULATOR DUE TO A SPECIAL CONVERTER. PROVIDE WITH HEATER.
- ⑤ PLACE AND COMPACT WASHED ROCK AS SPECIFIED IN SECTION L-100.
- ⑥ PLACE AND COMPACT CRUSHED AGGREGATE BASE COURSE AS SPECIFIED IN SECTION L-100.
7. PROVIDE CABLE ID TAGS WITHIN 6" OF L-823 CONNECTORS.

BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:

**MORRIS ENGINEERING GROUP**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



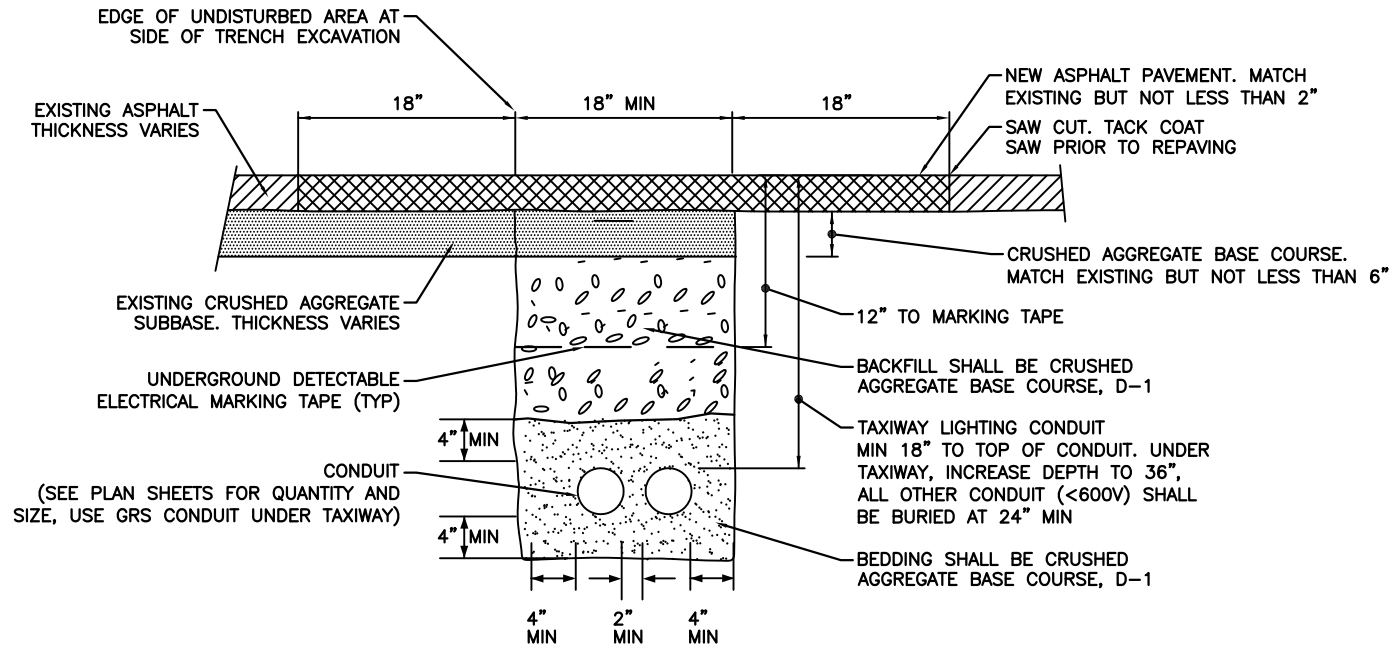
**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 EDGE LIGHT AND HANDHOLE DETAILS

SHEET	E15
OF	24



File: \\129-dowl-engineering\21-juneau-rso-phase-ii-b-working-drawings\TRENCH-DETAILS.dwg  
 DWG File No. 232-89  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS



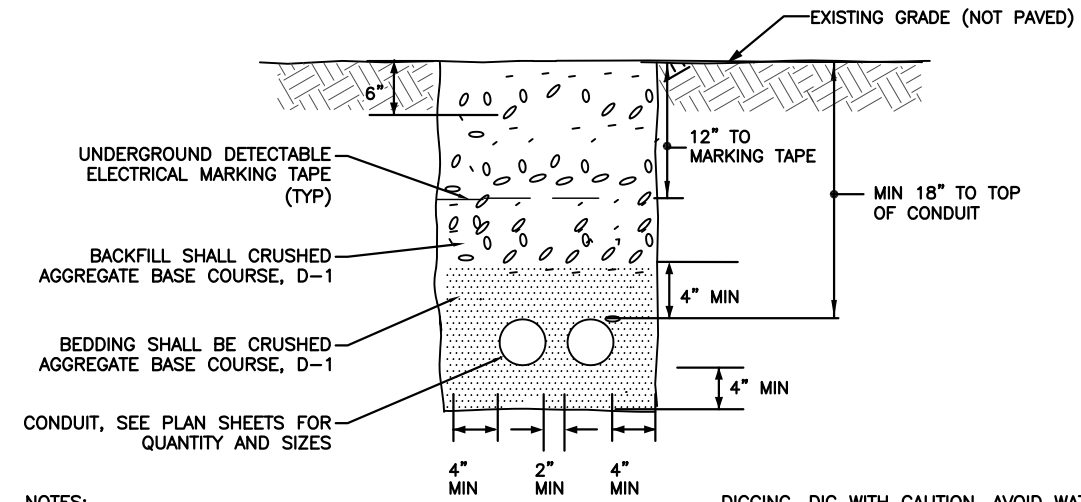
**NOTES:**

1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN. USE THIS DETAIL WHERE CONDUIT HAS TO BE PLACED BELOW EXISTING ASPHALT TO REMAIN.
2. BURY ALL CONDUIT AT 18" MINIMUM BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
3. SEE PLAN SHEETS FOR NUMBER OF CONDUITS IN TRENCH.
4. RETURN PAVEMENT TO THE CONDITION IT WAS IN PRIOR TO MAKING THE SAW CUT.
5. BACKFILL AND BEDDING SHALL BE CONCRETE WHERE UNDER TAXIWAY OR RUNWAY. PER P-610. -3.2.
6. PROVIDE 6" VERTICAL SEPARATION MINIMUM BETWEEN CONDUIT.
7. THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES, CONDUITS, CABLES, AND OTHER CONFLICTS.
8. MAINTAIN 12" MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.
9. POWER UTILITY CONDUITS SHALL BE BURIED AT A MINIMUM OF 3'-6". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
10. GENERAL POWER AND SITE LIGHTING CONDUITS SHALL BE BURIED AT A MINIMUM OF 24". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
11. MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ASSUME CONDUIT WILL HAVE TO BE BURIED DEEPER TO AVOID EXISTING ELECTRICAL UTILITIES, PRIVATE CONDUIT AND CABLES, AND OTHER PIPING, STRUCTURES, ETC. ADJUST CONDUIT AS REQUIRED. PROVIDE PRIVATE LOCATES.

**1 CONDUIT TRENCH WITHIN PAVED AREAS TO BE PATCHED**  
NO SCALE

**SHEET NOTE:**

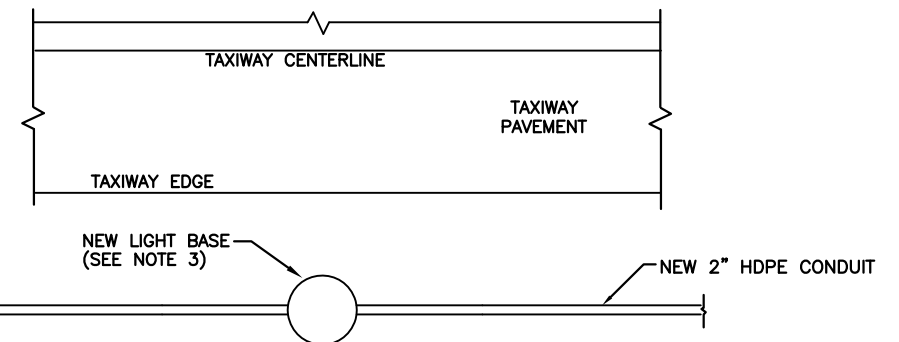
PLACE AND COMPACT CRUSHED AGGREGATE BASE COURSE AS SPECIFIED IN SECTION L-110.



**NOTES:**

1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
2. BURY ALL CONDUIT AT 18" MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
3. SEE PLAN SHEETS FOR NUMBER OF CONDUITS IN TRENCH.
4. WHERE TRENCHING THROUGH EXISTING ASPHALT, PATCH ASPHALT PER TRENCH DETAIL ON THIS SHEET.
5. PROVIDE 6" VERTICAL SEPARATION MINIMUM BETWEEN CONDUIT.
6. BACKFILL AND BEDDING SHALL BE CONCRETE WHERE UNDER TAXIWAY OR RUNWAY. PER P-610. -3.2.
7. THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO
8. MAINTAIN 12" MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.
9. POWER UTILITY CONDUITS SHALL BE BURIED AT A MINIMUM OF 3'-6". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
10. GENERAL POWER AND SITE LIGHTING CONDUITS SHALL BE BURIED AT A MINIMUM OF 24". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
11. MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ASSUME CONDUIT WILL HAVE TO BE BURIED DEEPER TO AVOID EXISTING ELECTRICAL UTILITIES, PRIVATE CONDUIT AND CABLES, AND OTHER PIPING, STRUCTURES, ETC. ADJUST CONDUIT AS REQUIRED. PROVIDE PRIVATE LOCATES.
12. SEE CIVIL DRAWINGS FOR TYPICAL SECTIONS UNDER PAVED AREAS. PROVIDE BACKFILL (MATERIAL, COMPACTION, ETC.) PER THE CIVIL DRAWINGS.

**2 DETAIL: CONDUIT TRENCH WITH NO EXISTING ASPHALT COVER (TYP)**  
NO SCALE



**NOTES:**

1. WHERE THE LIGHTS ARE IN ASPHALT, CUT THE ASPHALT A MINIMUM OF 4.5' WIDE. IF MORE ROOM IS NEEDED TO PLACE THE LIGHT BASE, WIDEN THE ENTIRE CUT TO AT LEAST 18" WIDER THAN THE WIDTH OF THE EXCAVATION ON EACH SIDE OF THE TRENCH.
2. PATCH THE ASPHALT PER THE TRENCH DETAIL ON THIS SHEET.
3. INSTALL THE NEW TAXIWAY LIGHT BASES PER THE TAXIWAY LIGHT SCHEDULE.
4. INSTALL CONDUIT IN A STRAIGHT LINE BETWEEN THE LIGHT BASES.

**3 DETAIL: LIGHT BASE & CONDUIT INSTALLATION (TYP)**  
NO SCALE

BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP**  
 2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016

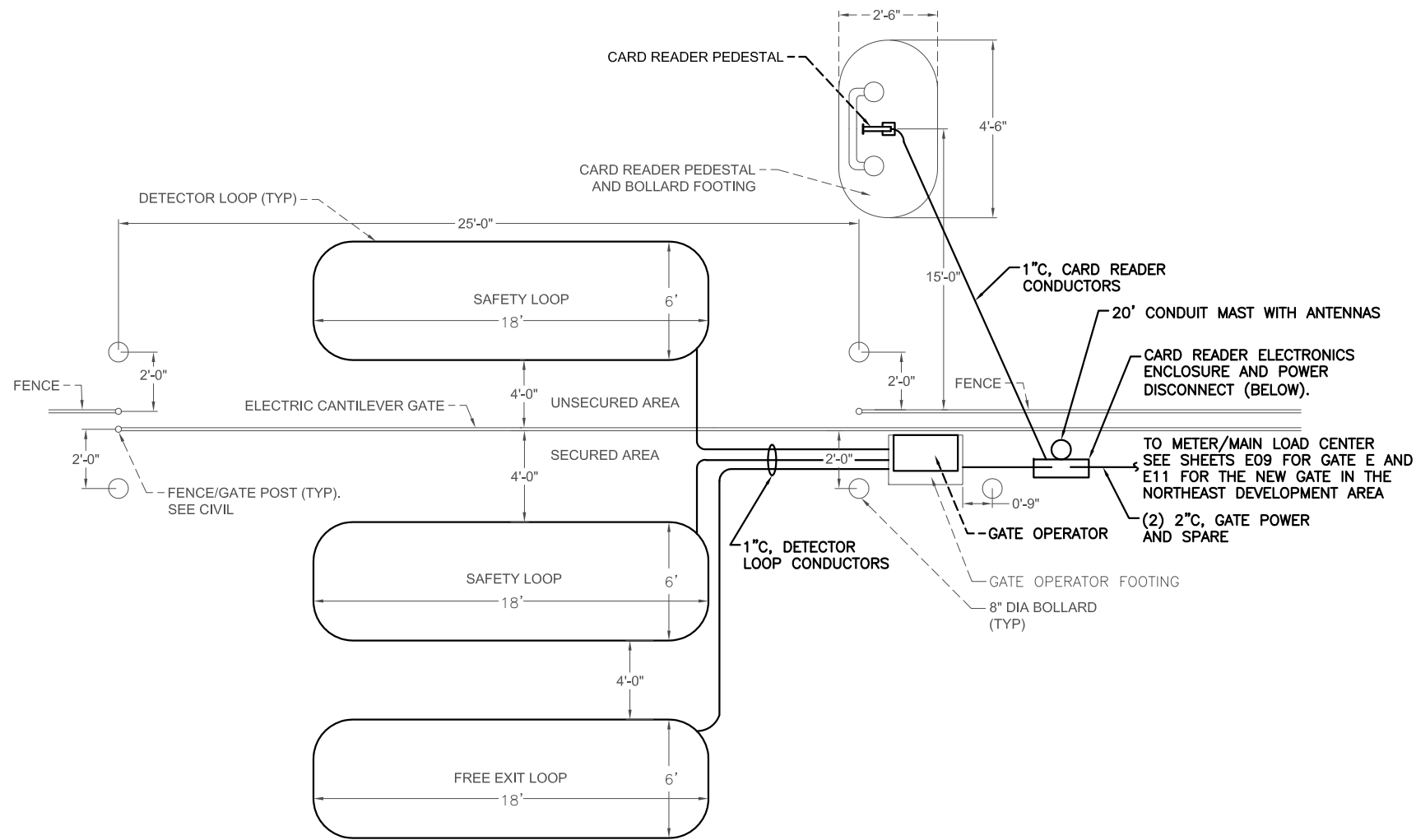


**DOWL**  
 WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000

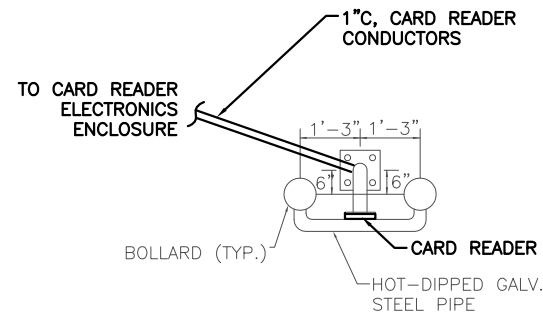


**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 TRENCH DETAILS

File: \\129-dowl-engineering\21-juneau-rso-phase-ii-b-working-drawings\GATE-DETAILS.dwg  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS  
 DOWL File No. 232-89  
 Script File:  
 Plot Date:



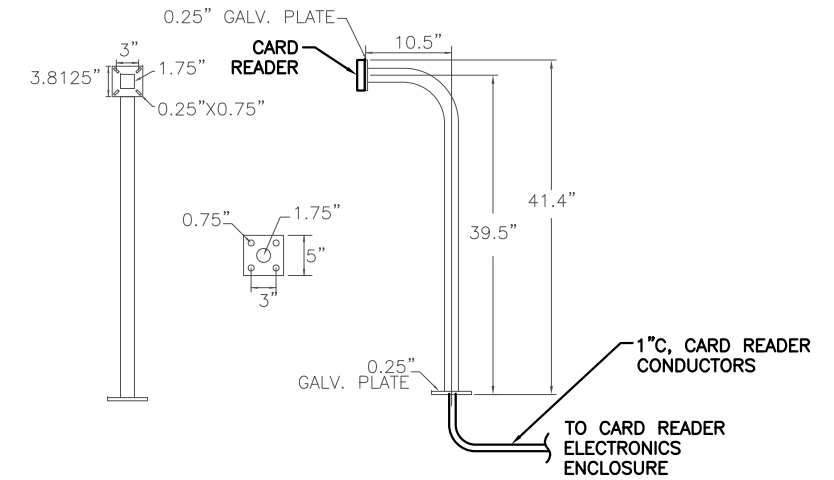
① ELECTRIC CANTILEVER GATE LAYOUT (TYP)  
 PLAN VIEW NOT TO SCALE



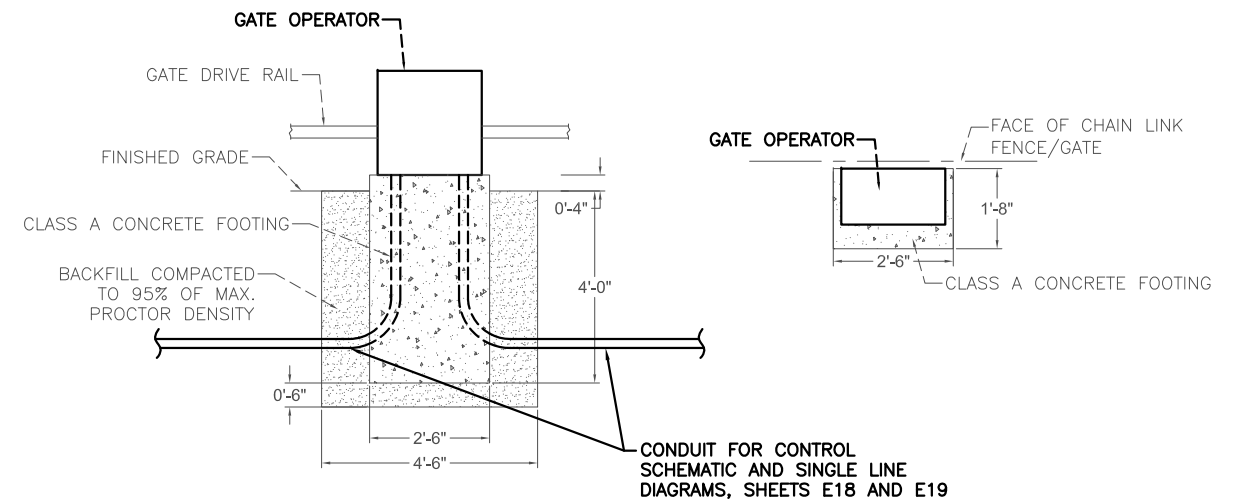
② CARD READER PEDESTAL & BOLLARD DETAILS (TYP)  
 PLAN VIEW NOT TO SCALE

SHEET NOTE:

DETAILS ON THIS SHEET APPLY TO BOTH OF THE NEW GATES IN THE NORTHEAST AND NORTHWEST AREAS, SEE SITE PLAN SHEETS E09 AND E11.



③ CARD READER PEDESTAL (TYP)  
 ELEVATION & PLAN VIEWS NOT TO SCALE



④ GATE OPERATOR FOUNDATION DETAILS (TYP)  
 ELEVATION & PLAN VIEWS NOT TO SCALE

BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:

**MORRIS ENGINEERING GROUP**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000

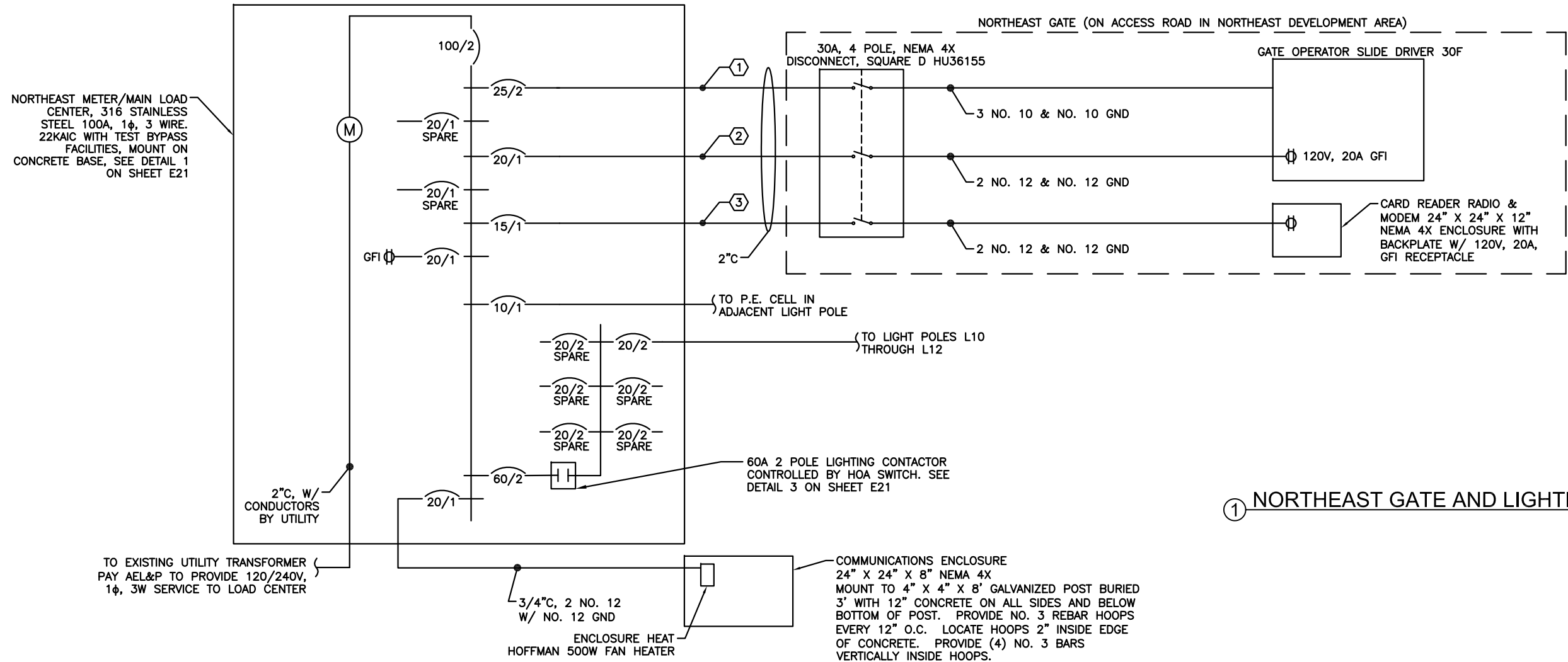


**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 GATE DETAILS

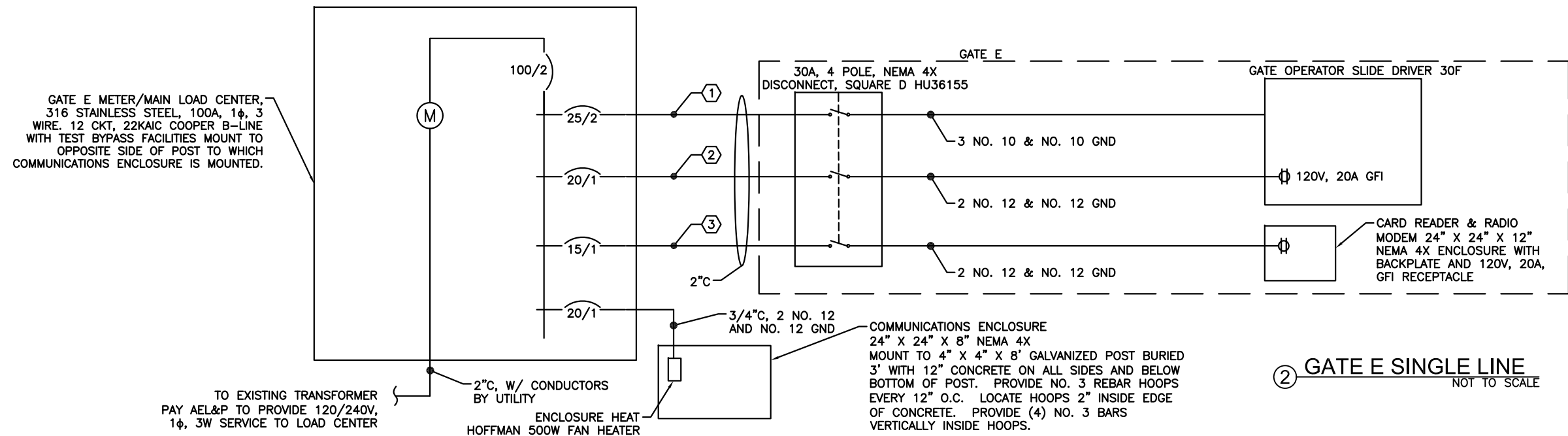
File: \\129-dowl-engineering\21-juneau-rsa-phase-ii-b-working-drawings\GATE-SINGLE-LINE.dwg  
 Script File:  
 Plot Date:

Designed By: BPN  
 Checked By: MGL  
 Drawn By: LDS  
 DOWL File No. 232-89



① NORTHEAST GATE AND LIGHTING SINGLE LINE  
 NOT TO SCALE

- SHEET NOTES:
- ① 3 NO. 10 WITH NO. 10 GND
  - ② 2 NO. 10
  - ③ 2 NO. 10



② GATE E SINGLE LINE  
 NOT TO SCALE

BY	DATE	REVISIONS

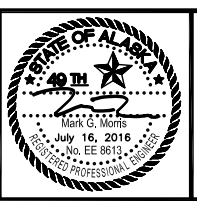
SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

PLAN PREPARED BY:

**MORRIS ENGINEERING GROUP LLC**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

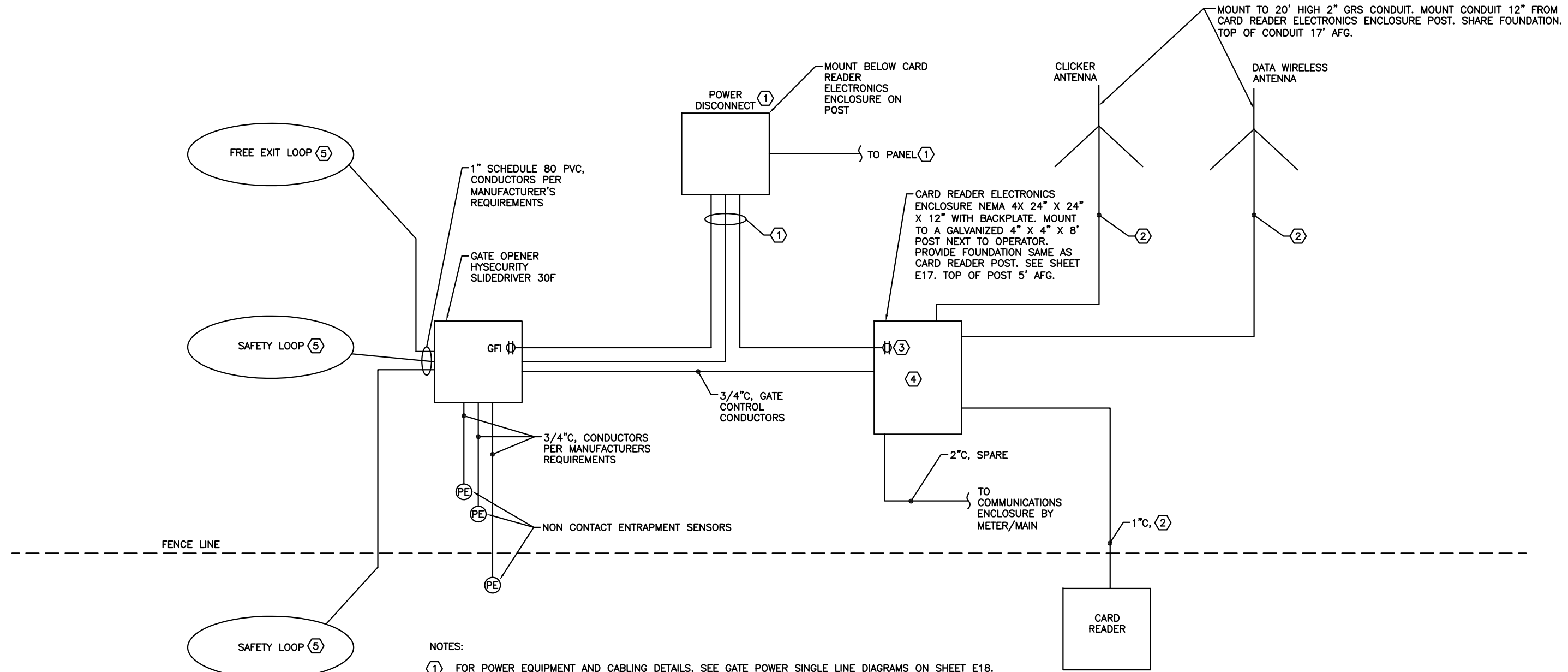
4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 GATE SINGLE LINES

File: I:\129 dowl engineering\21\_juneau\_rso\_phase II\working drawings\GATE CONTROL RISER DIAGRAM.dwg  
 Script File: RISER DIAGRAM.dwg  
 Plot Date: D:\129 dowl engineering\21\_juneau\_rso\_phase II\working drawings\GATE CONTROL RISER DIAGRAM.dwg  
 D:\129 dowl engineering\21\_juneau\_rso\_phase II\working drawings\GATE CONTROL RISER DIAGRAM.dwg  
 D:\129 dowl engineering\21\_juneau\_rso\_phase II\working drawings\GATE CONTROL RISER DIAGRAM.dwg  
 D:\129 dowl engineering\21\_juneau\_rso\_phase II\working drawings\GATE CONTROL RISER DIAGRAM.dwg



NOTES:

- ① FOR POWER EQUIPMENT AND CABLING DETAILS, SEE GATE POWER SINGLE LINE DIAGRAMS ON SHEET E18.
- ② CONDUCTORS FOR WIRELESS ANTENNA.
- ③ 120V, 20A, GFI RECEPTACLE. PROVIDE 8 OUTLET MINIMUM POWER STRIP WITH SURGE PROTECTION.
- ④ PROVIDE WITH MILLENNIUM 149-100958 DOOR CONTROLLER, MILLENNIUM PS1-100212-001 POWER SUPPLY, ENGINEERED PARKING SYSTEMS MODEL RFL450 LONG RANGE PROXIMITY CARD READER AND SITE CONTROLLER. PROVIDE A ROUTER, WIRELESS ETHERNET ANTENNA AND CONVERTER TO ALLOW CARD ACCESS EQUIPMENT TO OPERATE. COORDINATE WITH CBJ MIS DEPARTMENT. PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED.
- ⑤ PROVIDE PRE-FORMED TRAFFIC LOOPS OR CONDUCTORS IN SCHEDULE 80 PVC CONDUIT, PER GATE MANUFACTURER.
- 6. COORDINATE WITH OWNER TO PROGRAM MILLENNIUM DOOR CONTROLLER TO WORK WITH EXISTING OWNER ACCESS CONTROL SYSTEM TO USE EXISTING CARDS TO OPERATE GATE. PROVIDE ALL WORK REQUIRED FOR AN OPERATIONAL SYSTEM.
- 7. HIRE DOAK'S LOCK & KEY (907-789-9152) TO PROVIDE DATA WIRELESS ANTENNA, MILLENNIUM EQUIPMENT, AND ALL REMAINING EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL WIRELESS ETHERNET CONNECTION TO THE AIRPORT CARD ACCESS SYSTEM.
- 8. PERFORM ALL WORK REQUIRED FOR A FULLY OPERATIONAL GATE.

① GATE CONTROL RISER DIAGRAM  
NO SCALE

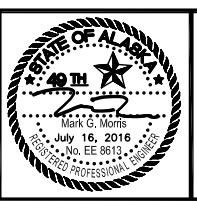
BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP**  
 Mark G. Morris  
 2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



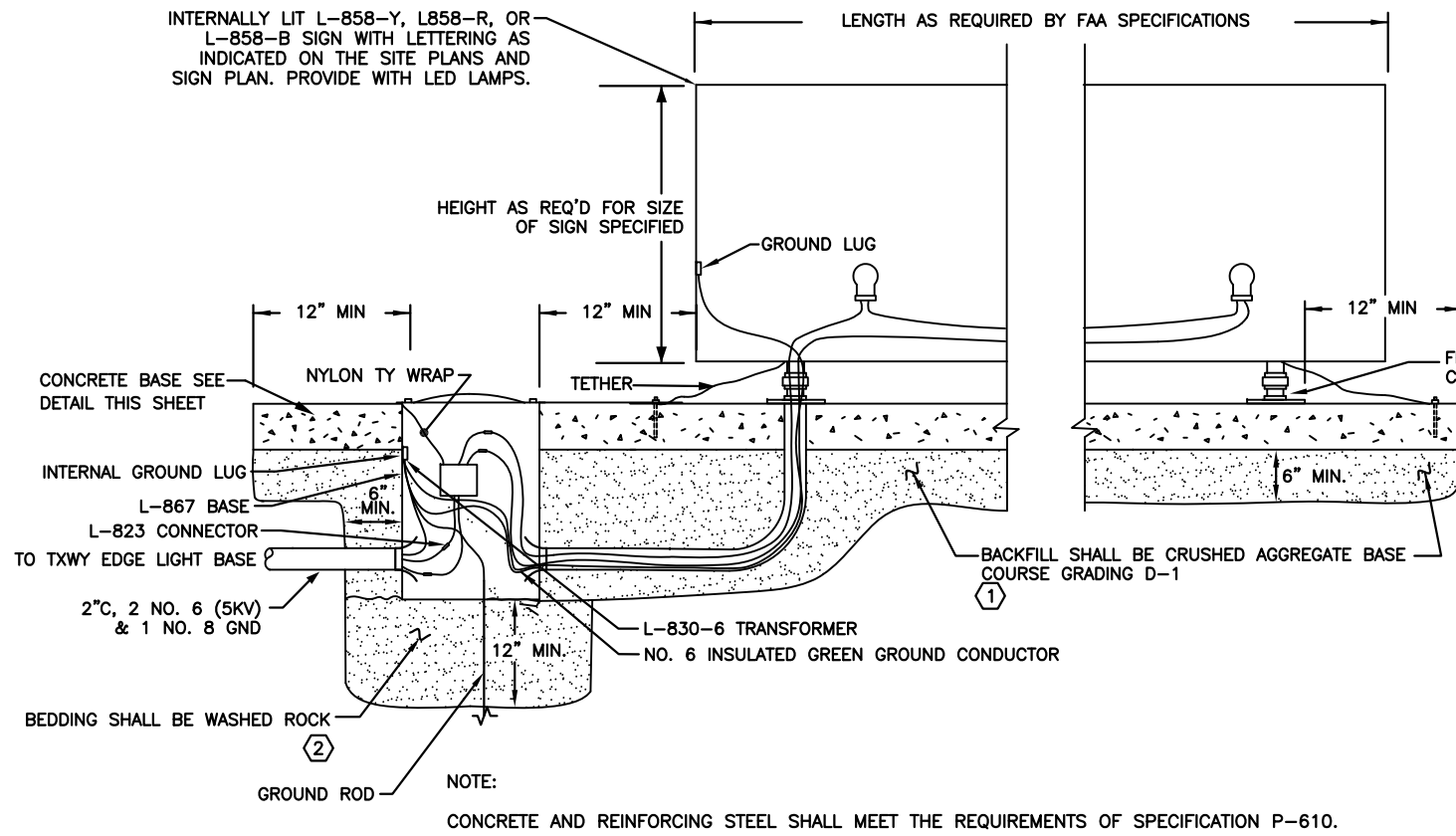
**DOWL**  
 WWW.DOWL.COM  
 4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



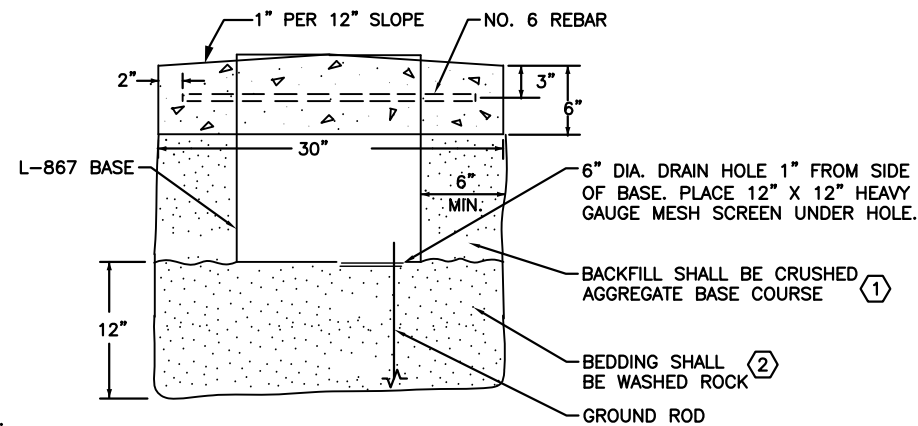
**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 GATE CONTROL RISER DIAGRAM



File: \\129.dowl\engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\SIGN AND CONNECTOR DETAILS.dwg  
 Plot Date:

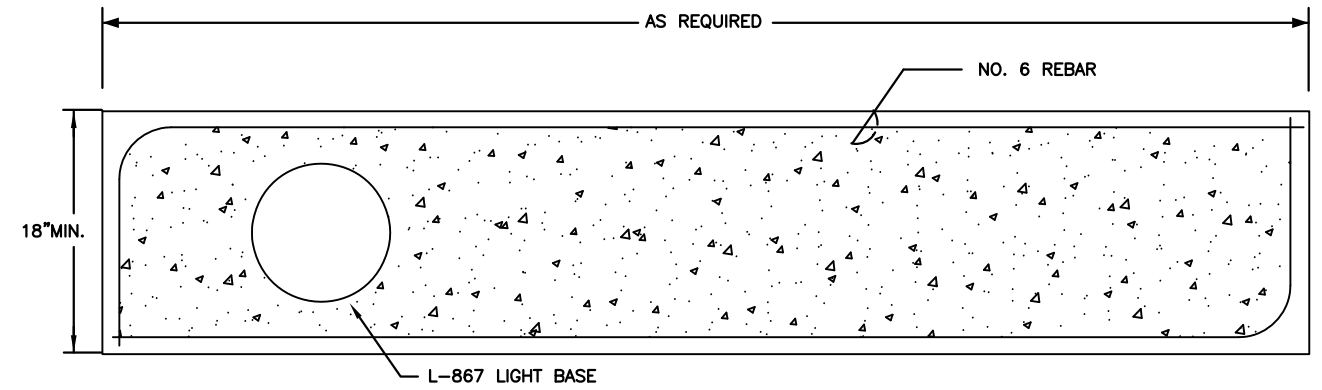


① **DETAIL - LIGHTED SIGN SIDE VIEW**  
NO SCALE



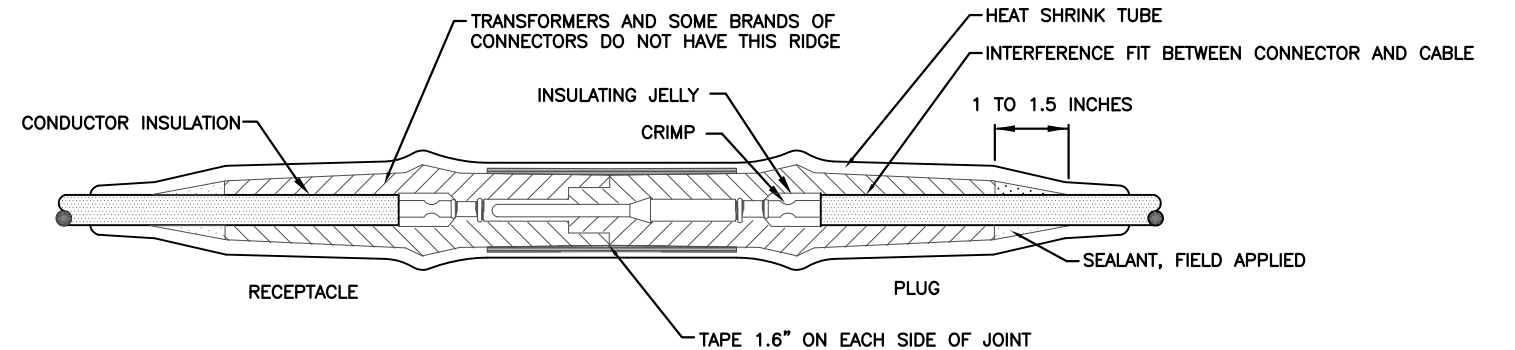
- NOTES:
- ① PLACE AND COMPACT CRUSHED AGGREGATE BASE COURSE AS SPECIFIED IN SECTION L-100.
  - ② PLACE AND COMPACT WASHED ROCK AS SPECIFIED IN SECTION L-100.

② **DETAIL - LIGHTED SIGN END VIEW**  
NO SCALE



NOTE:  
REFER TO HANDHOLE DETAIL ON SHEET E15 FOR CONNECTION OF CONDUITS TO L-867 BASE.

③ **DETAIL - LIGHTED SIGN TOP VIEW**  
NO SCALE



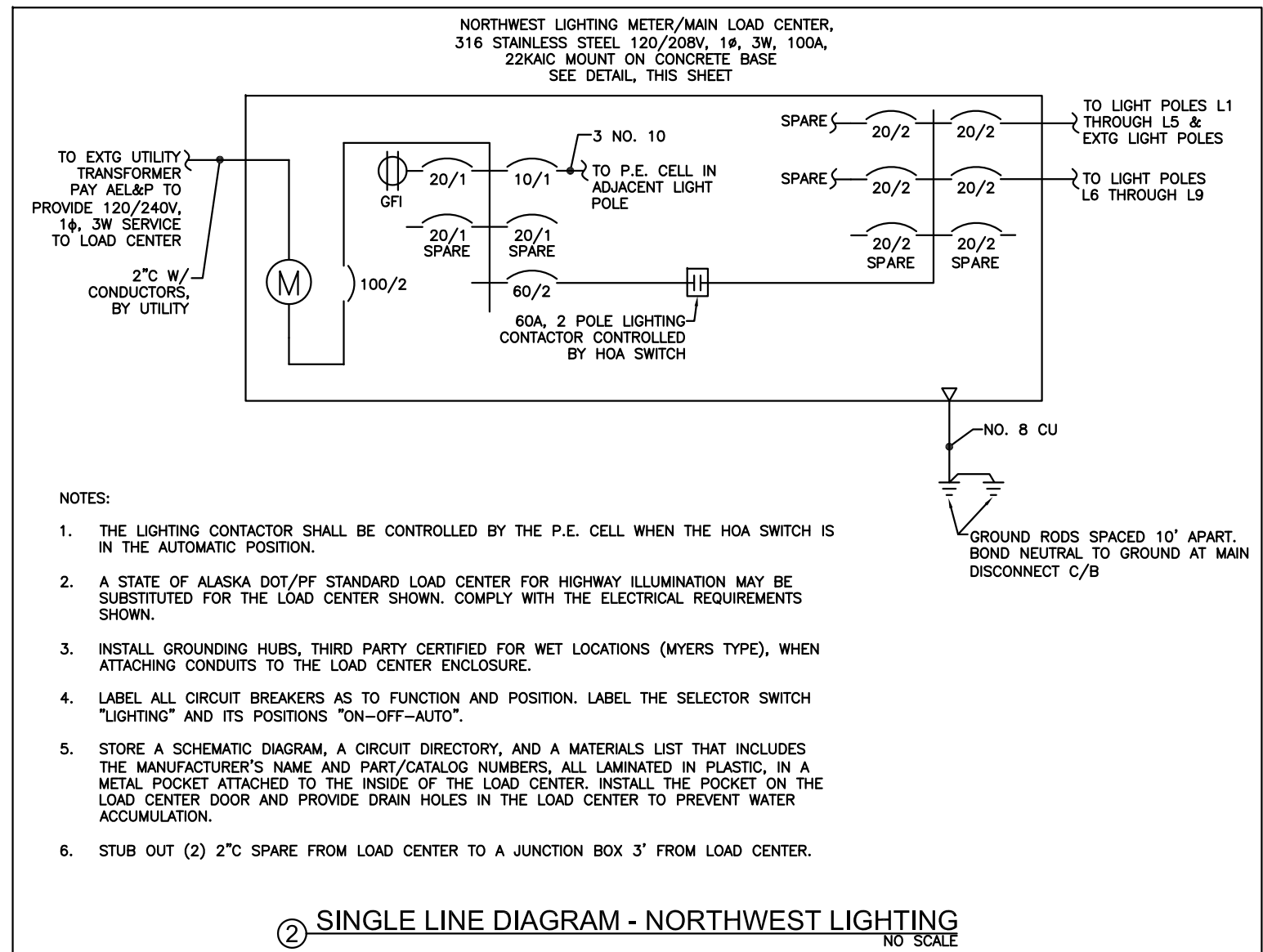
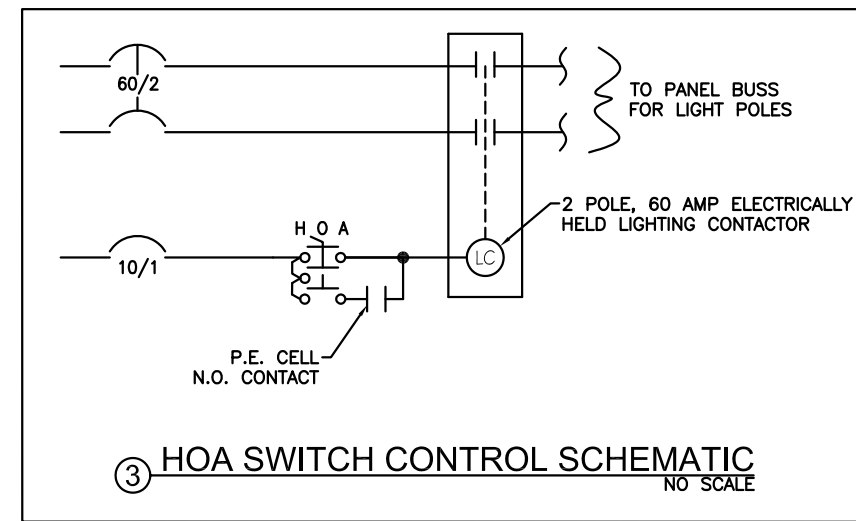
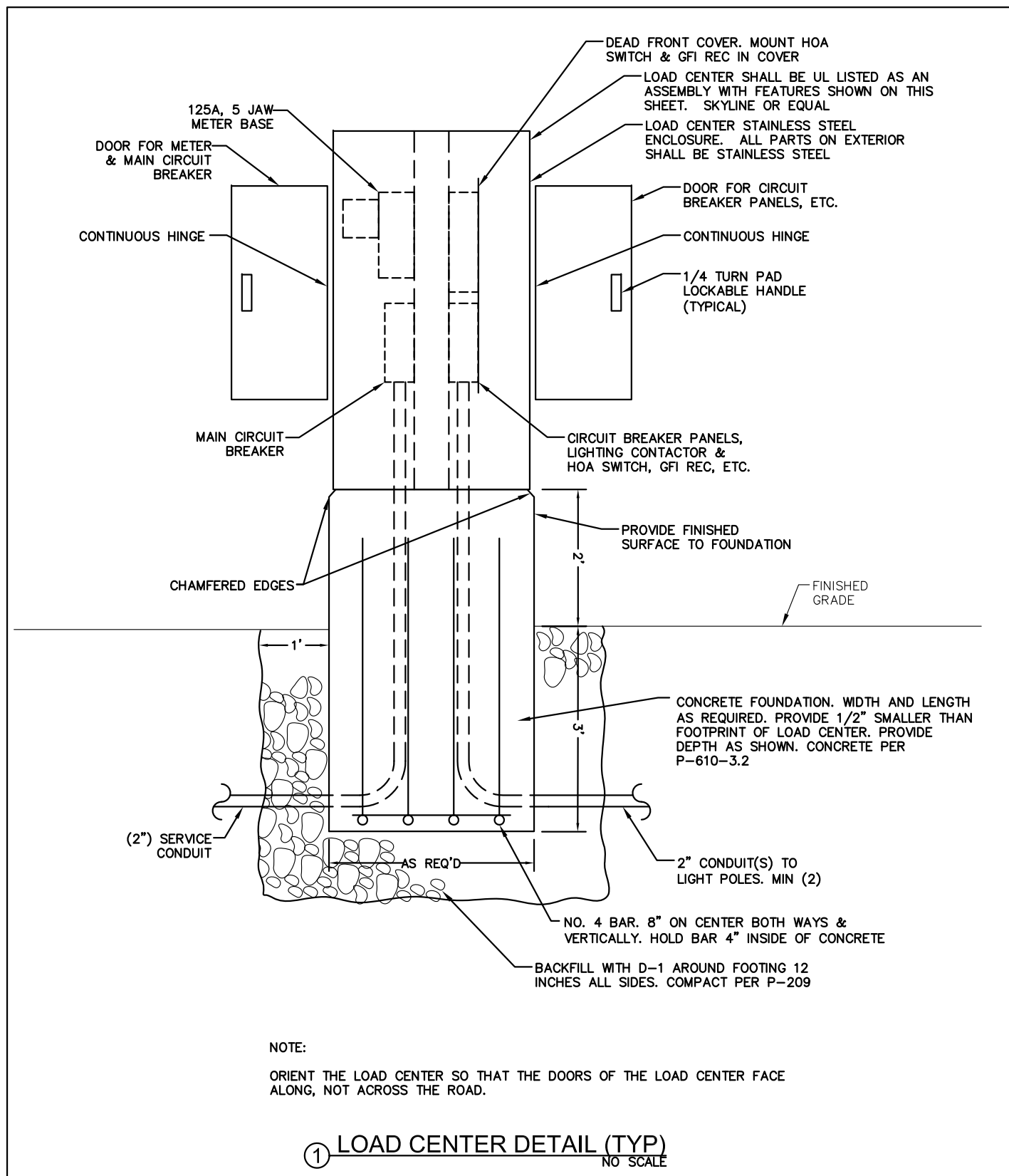
NOTES:

1. THE FOLLOWING INSTALLATION INSTRUCTIONS ARE TO SUPPLEMENT THE MANUFACTURERS INSTRUCTIONS.
2. CLEAN THE CABLE THOROUGHLY 12" MINIMUM FROM THE END.
3. REMOVE INSULATION PER MANUFACTURERS INSTRUCTIONS. DO NOT NICK THE CONDUCTOR. UTILIZE PENCILING TOOL.
4. INSTALL PIN AND/OR RECEPTACLE WITH A CRIMPING TOOL WHICH MUST BE COMPLETELY CLOSED BEFORE THE TOOL MAY BE REMOVED.
5. BE SURE CABLE AND CONNECTOR FITTINGS ARE CLEAN. COAT THE CABLE INSULATION WITH INSULATING JELLY FROM THE CONNECTOR.
6. CAREFULLY INSERT CABLE INTO CONNECTOR TO THE PROPER DEPTH.
7. SLIP 16" LENGTH OF HEAT SHRINK TUBING ON TRANSFORMER LEAD. RANCHER TAPE KIT OR APPROVED EQUAL.
8. COMPLETE CONNECTION BY MATING THE PLUG AND RECEPTACLE. CAUTION: BE SURE THE CABLE DOES NOT SLIP OUT WHEN THE CONNECTION IS MADE.
9. APPLY RUBBER TAPE AND VINYL TAPE ONE HALF LAPPED, 1.6" ON EACH SIDE OF JOINT.
10. ANY CONNECTOR WHICH IS CONTAMINATED BY DIRT OR OTHER DAMAGING MATERIAL SHALL BE REMOVED AND NOT REINSTALLED.
11. CLEAN CONNECTOR, HEAT SHRINK AND CABLE INSULATION WITH WAX OR GREASE SOLVENT TO REMOVE SURFACE SILICONE JELLY. MAINTAIN CLEANLINESS THROUGH INSTALLATION PROCESS.
12. USE HEAT SHRINK TO BIND WITH INTEGRAL FULL LENGTH SEALANT COATING OR APPROVED EQUAL, SAS MODEL 71A0070.
13. CENTER HEAT SHRINK OVER THE CONNECTOR. APPLY HEAT EVENLY BEGINNING AT THE CENTER AND WORKING AROUND CABLE TO ENDS. DO NOT OVERHEAT.
14. THE HEAT SOURCE SHALL BE ELECTRIC HEAT GUN OR A PROPANE TORCH WITH A FLAME SPREADER TO BE APPROVED BY THE ENGINEER.

④ **L-823 CONNECTOR WATERPROOFING DETAIL**  
NO SCALE

BY		DATE		REVISIONS		SCALE	PLAN PREPARED BY: <b>MORRIS ENGINEERING GROUP</b> 2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010 DATE: 7/16/2016		 www.dowl.com 4041 B Street Anchorage, Alaska 99503 907-562-2000		<b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 SIGN AND CONNECTOR DETAILS	SHEET <b>E20</b> OF 24
----	--	------	--	-----------	--	-------	--	--	--	--	---	---------------------------------

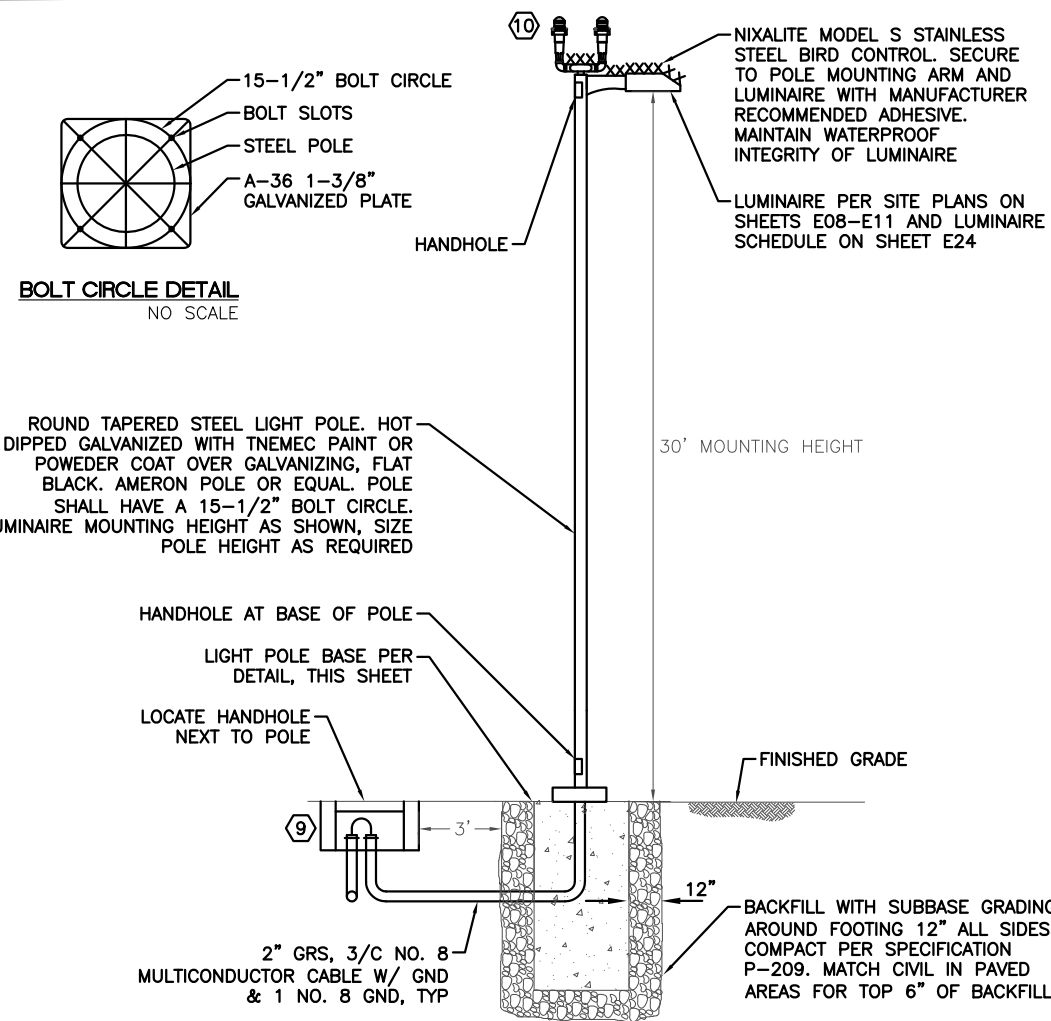
File: I:\129 dowl engineering\21 juneau\_rso\_phase II\working drawings\LOAD CENTER DE TAILS.dwg  
 Script File: DE TAILS.dwg  
 Plot Date: 7/16/2016  
 DWN File No. 232-89  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS



- NOTES:
1. THE LIGHTING CONTACTOR SHALL BE CONTROLLED BY THE P.E. CELL WHEN THE HOA SWITCH IS IN THE AUTOMATIC POSITION.
  2. A STATE OF ALASKA DOT/PF STANDARD LOAD CENTER FOR HIGHWAY ILLUMINATION MAY BE SUBSTITUTED FOR THE LOAD CENTER SHOWN. COMPLY WITH THE ELECTRICAL REQUIREMENTS SHOWN.
  3. INSTALL GROUNDING HUBS, THIRD PARTY CERTIFIED FOR WET LOCATIONS (MYERS TYPE), WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
  4. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
  5. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR AND PROVIDE DRAIN HOLES IN THE LOAD CENTER TO PREVENT WATER ACCUMULATION.
  6. STUB OUT (2) 2" C SPARE FROM LOAD CENTER TO A JUNCTION BOX 3' FROM LOAD CENTER.

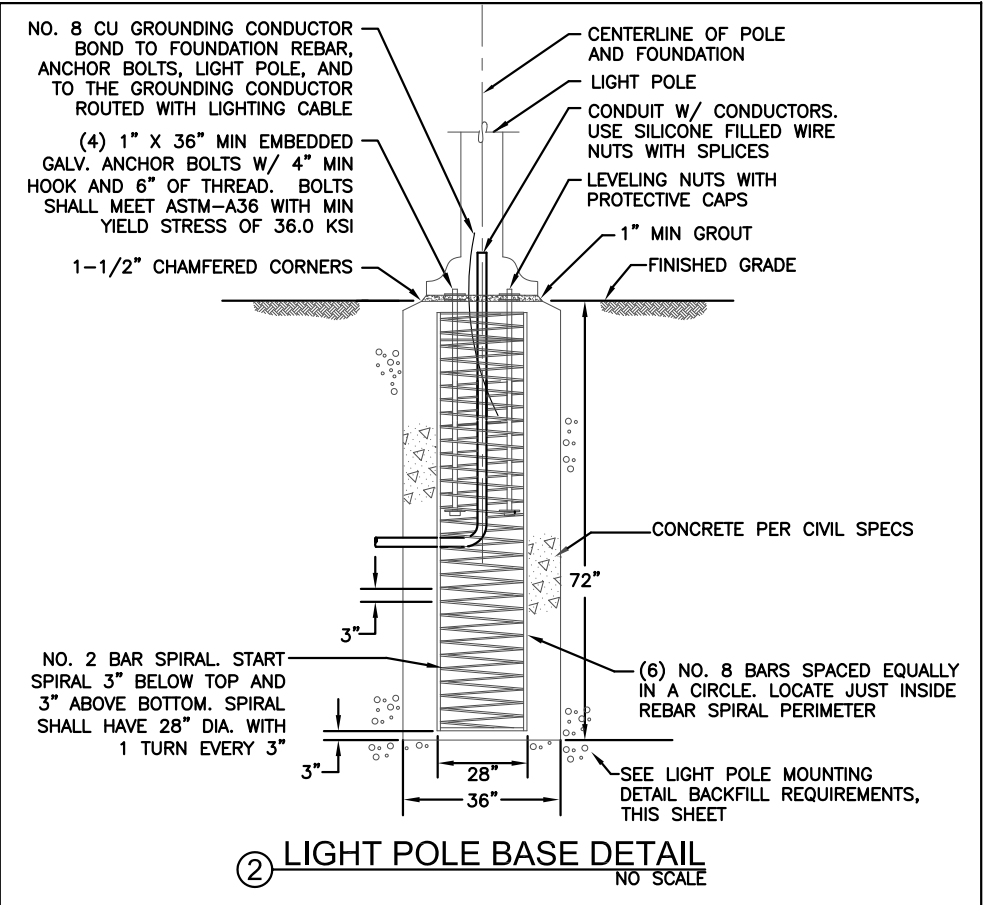
File: \\129-dowl-engineering\21-juneau-rso-phase-ii-b-working-drawings\LIGHT POLE  
 DE TAILS.dwg  
 Script File: DE TAILS.dwg  
 Plot Date:

Designed By: BPN  
 Checked By: MGL  
 Drawn By: LDS  
 DOWL File No. 232-89

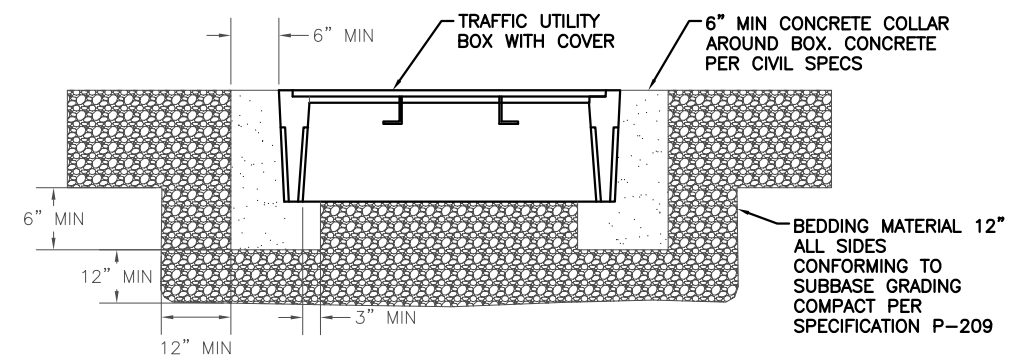


- NOTES:**
- LOCATE THE CENTER OF THE LIGHT POLE WHERE SHOWN ON SITE PLANS ON SHEETS E08 THROUGH E11.
  - SIZE POLE WITH LUMINAIRE FOR 100 MPH SUSTAINED WINDS WITH GUSTS TO 120 MPH.
  - PROTECT ANCHOR BOLTS FROM PHYSICAL DAMAGE DURING CONSTRUCTION.
  - UNLESS NOTED ELSEWHERE, ALL SPLICES SHALL BE IN BASE OF POLE.
  - PROVIDE GROUNDING BUSHINGS ON CONDUIT. BOND BUSHING AND STEEL COVER TO NO. 8 GROUND AND ROUTE TO LIGHT POLE BASE.
  - PROVIDE DOUBLE FUSED CONNECTOR KITS IN BASE OF POLE. SEC NO. 1791-DF OR EQUAL. THE FUSES SHALL BE BUSS KTK-5 FAST ACTING DUAL FERRULE TYPE OR APPROVED EQUAL.
  - PROVIDE HANDHOLE AT BASE OF POLE.
  - PROVIDE A PE CELL AT TOP OF POLE NEXT TO LOAD CENTER.
- 9 16,000 LB DESIGN LOAD. 16"W X 22"L X 12"D NOMINAL TRAFFIC RATED HANDHOLE WITH BOLT DOWN STEEL COVER WITH RAISED NON-SKID SURFACE. OLD CASTLE B1017 BOX AND B1017-51JH COVER OR EQUAL. SEE HANDHOLE DETAIL, THIS SHEET.
- 10 PROVIDE 1" NPT ON TOP OF POLE WHERE OBSTRUCTION LIGHTS ARE REQUIRED, SEE SITE PLANS FOR OBSTRUCTION LIGHT LOCATIONS, SHEETS E08 THROUGH E11.

1 LIGHT POLE MOUNTING DETAIL - TYPICAL  
NO SCALE



2 LIGHT POLE BASE DETAIL  
NO SCALE



- NOTES:**
- WHERE INSTALLING IN ASPHALT COMPLY WITH CIVIL SECTION.
  - SEE CIVIL FOR LOCATION AND ELEVATION TO TOP OF HANDHOLE.
  - BURY LID 6" TO 8" DEEP IN UNPAVED AREAS. PROVIDE SWING TIE LOCATIONS ON CONTRACTOR RED LINE DRAWINGS FOR JUNCTION BOXES IN UNPAVED AREAS.

3 HANDHOLE DETAIL  
NO SCALE

BY	DATE	REVISIONS

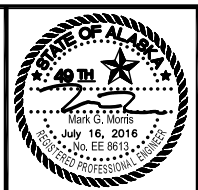
SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**

**MORRIS ENGINEERING GROUP LLC**

2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016



**DOWL**

WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000

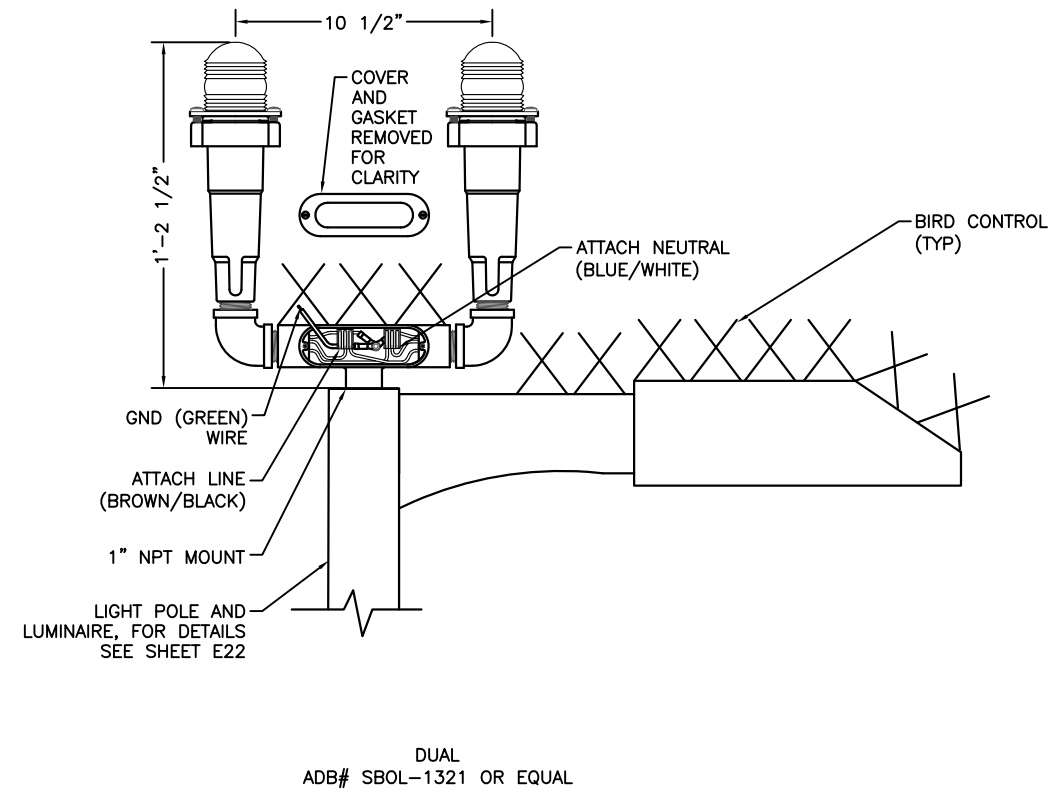


**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA

RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 LIGHT POLE DETAILS



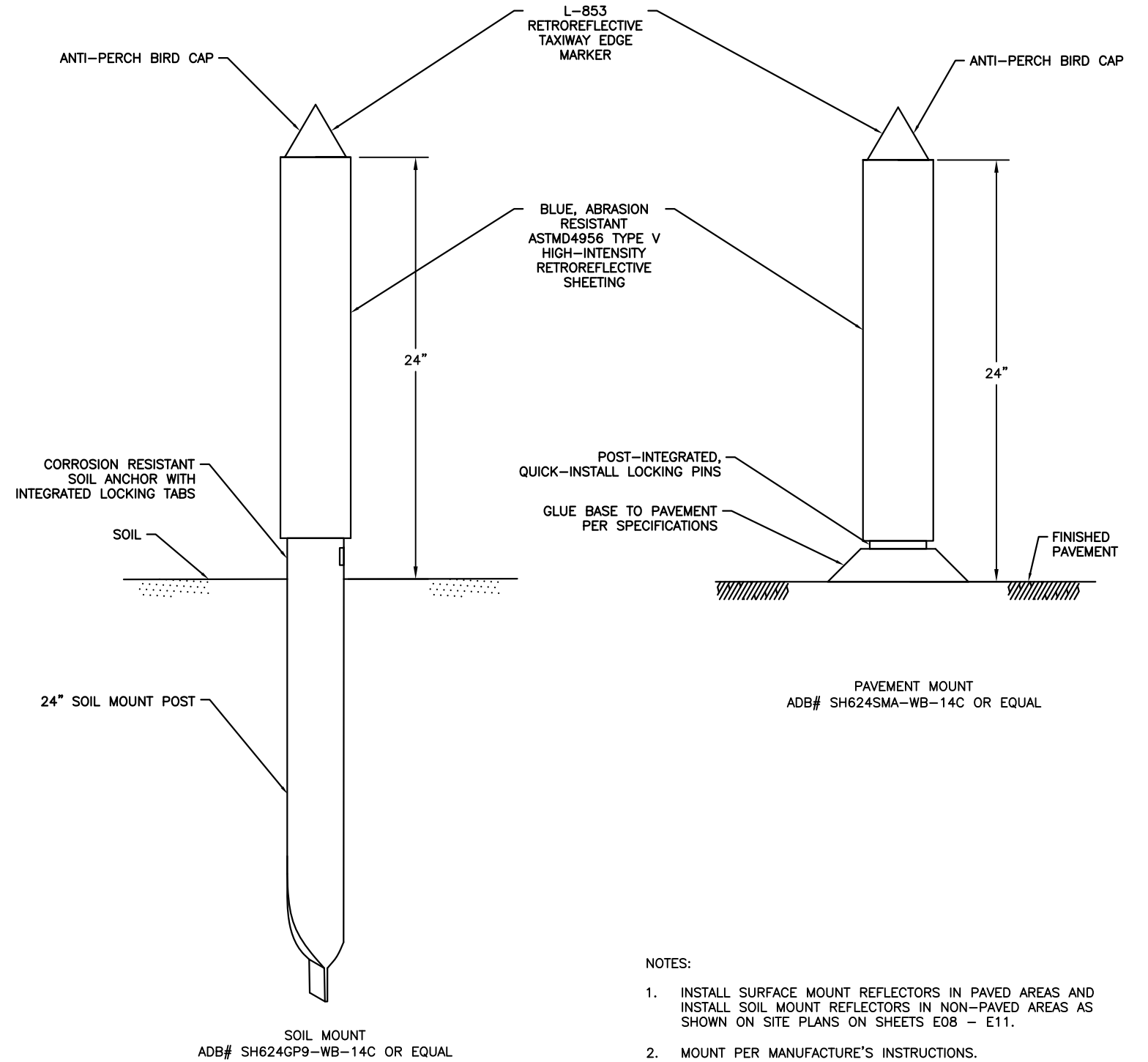
File: \\129-dowl-engineering\21-juneau-rso-phase-ii-b-working-drawings\OBSTRUCTION LIGHT AND REFLECTOR DETAILS.dwg  
 Script File:  
 Plot Date:  
 DSN File No. 232-89  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS



NOTE:

MOUNT TO TOP OF LIGHT POLE. LIGHT POLES IDENTIFIED TO HAVE OBSTRUCTION LIGHTS SHALL HAVE A 1" NPT TO ALLOW THE INSTALLATION OF THE DUAL OBSTRUCTION LIGHT.

① L-810 LED OBSTRUCTION LIGHT DETAIL  
 NO SCALE



NOTES:

1. INSTALL SURFACE MOUNT REFLECTORS IN PAVED AREAS AND INSTALL SOIL MOUNT REFLECTORS IN NON-PAVED AREAS AS SHOWN ON SITE PLANS ON SHEETS E08 - E11.
2. MOUNT PER MANUFACTURE'S INSTRUCTIONS.

② TAXIWAY EDGE REFLECTOR DETAIL  
 NO SCALE

BY		DATE	REVISIONS	SCALE	<b>PLAN PREPARED BY:</b>  2375 Jordan Avenue #7, Juneau, AK 99801 Phone: 907-789-3350, License: AECL1010 DATE: 7/16/2016	  www.dowl.com 4041 B Street Anchorage, Alaska 99503 907-562-2000	 <b>JUNEAU INTERNATIONAL AIRPORT</b> JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B CONTRACT NO. BE-17-045 AIP No. 3-02-0133-XXX-2016 OBSTRUCTION LIGHT AND REFLECTOR DETAILS	SHEET <b>E23</b> OF 24
----	--	------	-----------	-------	--	--	--	---------------------------------

File: K:\129\_dowl\_engineering\21\_juneau\_rso\_phase\_ii\_b\_working\_drawings\LUMINAIRE SCHEDULE.dwg  
 Script File: SCHEDULE.dwg  
 Plot Date: 2/16/2016 10:58:00 AM  
 DOWL File No. 232-89  
 Designed By: BPN  
 Checked By: MCM  
 Drawn By: LDS

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMPS/ MIN LUMENS	SPARES	REMARKS
A	SITE LIGHTING	KIM 1SAARX2524K70UVBLUSA257 OR EQUAL	LED 4000K/ 32985	2	POLE MOUNT TO 30' GALVANIZED ROUND TAPERED POLE PAINTED FLAT BLACK, AREA LIGHT, TYPE 2 DISTRIBUTION, 4000K, 700MA, 120-277V, BLACK, UPSWEPT ARM SUPPORT, MOUNT 30' ABOVE GRADE. PROVIDE WITH NIXALITE BIRD CONTROL, ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. PROVIDE 7-PIN PHOTOCELL RECEPTACLE ON LUMINAIRES NEXT TO LOAD CENTERS. PROVIDE DUAL OBSTRUCTION LIGHTS ON THE POLES INDICATED ON THE SITE PLANS ON SHEETS E08 - E11.

NOTE:

THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING), THE OTHER PLAN SHEETS, AND THE SPECIFICATIONS.

LIGHT POLE SCHEDULE					
LIGHT NO.	STATION LINE	STATION	OFFSET	LUMINAIRE TYPE	REMARKS
L1	SEAPLANE BASE ACCESS ROAD	609+57.60	19.28' LT	A	
L2	SEAPLANE BASE ACCESS ROAD	608+12.15	19.28' LT	A	
L3	SEAPLANE BASE ACCESS ROAD	606+58.70	19.00' LT	A	
L4	SEAPLANE BASE ACCESS ROAD	605+8.54	19.00' LT	A	
L5	SEAPLANE BASE ACCESS ROAD	603+56.07	19.00' LT	A	
L6	SEAPLANE BASE ACCESS ROAD	602+5.83	19.00' LT	A	
L7	SEAPLANE BASE ACCESS ROAD	600+55.96	19.00' LT	A	
L8	SREF ACCESS ROAD	42+16.61	19.00' LT	A	
L9	SREF ACCESS ROAD	40+66.56	19.00' LT	A	
L10	NE DEVELOPMENT ROAD	505+11.75	17.00' LT	A	
L11	NE DEVELOPMENT ROAD	503+61.75	17.00' LT	A	
L12	NE DEVELOPMENT ROAD	502+10.34	17.00' LT	A	

BY	DATE	REVISIONS

SCALE	
HORZ.	SCALE
VERT.	SEE GRAPHIC
W.O. NO.	D60633
FILE NO.	

**PLAN PREPARED BY:**



2375 Jordan Avenue #7, Juneau, AK 99801  
 Phone: 907-789-3350, License: AECL1010

DATE: 7/16/2016




WWW.DOWL.COM

4041 B Street  
 Anchorage, Alaska 99503  
 907-562-2000



**JUNEAU INTERNATIONAL AIRPORT**  
 JUNEAU, ALASKA  
 RUNWAY SAFETY AREA IMPROVEMENTS - PHASE 2B  
 CONTRACT NO. BE-17-045  
 AIP No. 3-02-0133-XXX-2016  
 LUMINAIRE SCHEDULE