#### ADDENDUM TO THE CONTRACT

#### for the

# Juneau International Airport (JNU) Runway Safety Area Improvements, Phase 2C Re-Bid

#### Contract No. BE18-213

ADDENDUM NO.: THREE <u>CURRENT DEADLINE FOR BIDS</u>:

July 27, 2018

PREVIOUS ADDENDA: TWO

**ISSUED BY:** City and Borough of Juneau

ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

#### DATE ADDENDUM ISSUED:

July 24, 2018

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <a href="http://www.juneau.org/engineering-ftp/contracts/Contracts.php">http://www.juneau.org/engineering-ftp/contracts/Contracts.php</a>

#### **QUESTIONS AND ANSWERS**

**Question:** Why is the HMA Type II, Class B oil called out as PG 52-28 instead of the PG 58-28 normally used by the CBJ and ADOT in Juneau?

Answer: All instances of PG 52-28 have been revised to PG 58-28. See addendum items below.

**Question:** Sheet 19 – TD1 has 40' section with unidentified percent grade.

Answer: Sheet 19 has been revised and re-issued. See addendum items below.

Question: Why is there grid with elevations shown that vary from what the typical section called for a

uniform 1% cross slope? There are also slopes shown from 0.1% to 1.5%.

**Answer:** Typical section has been revised to reference grading sheet. See addendum items below.

Question: Grade break on Sheet 28 does not match the grade break location on Sheet 11 typical

sections.

**Answer:** Sheet 11 typical sections have been revised. See addendum items below.

Question: G-100 Mobilization: 100-4.1c says will pay '40\$' instead of '40%'.

**Answer:** This item has been corrected. See addendum items below.

Question: Item P-610a is included in three of the bid schedules but the spec section says it will only be

valid for the work at Gate E only which is in bid tab 2.

**Answer:** Item P-610 has been revised. See addendum items below.

Question: Item U-100D Frostproof Hydrant is not defined in the specifications.

Answer: Frostproof Hydrant information has been added to U-100 specification. See addendum items below.

**Question:** Item U-200d sump pump is not defined in specifications.

Answer: Item U-200d sump pump has been added to the U-200 specification. See addendum items

below.

#### **VOLUME I - SPECIFICATIONS:**

- Item No. 1 Section 00 4114 - BID SCHEDULE, REPLACE this section in its entirety with the included 00 4114 - BID SCHEDULES-Addendum No. 3.
- Item No. 2 Section 01 5200 SECURITY AND SAFETY, REPLACE this specification in its entirety with the included 01 5200 SECURITY AND SAFETY.

#### **VOLUME I, PART II – TECHNICAL SPECIFICATIONS:**

- Item No. 3 Item G-100 MOBILIZATION AND DEMOBILIZATION, PART 2 - METHOD OF MEASUREMENT, Section 100-4.1c, REVISE as follows:
  - c. When 50% or more of the original contract is earned, an additional 40%.
- Item F-162, PART 3 CONSTRUCTION METHODS, 162-3.8 GATE INSTALLATION, Item No. 4 **ADD** the following at the end of the paragraph:

Reinstall all salvaged signs at the locations on the new gate as designated by the Engineer. Use new stainless-steel hardware for all new sign installation, and provide sufficient mounting points to ensure all signs are securely fastened to the fence with no loose edges. Reinstall salvaged security camera to new gate as directed by Engineer.

- Item No. 5 Item F-162, PART 3 - CONSTRUCTION METHODS, ADD the following after 162-3.11:
  - 162-3.12 REMOVE EXISTING SLIDE GATE. Remove existing slide gate will include full removal of existing gate, gate posts and foundations, fence fabric, all hardware, existing gate operator, existing card reader, and all existing ancillary devices associated with the existing gate control system that are to be replaced. This item will also include removal of all existing signage on Gate E and adjacent fence panels, removal of the existing security camera mounted to the existing gate, and salvage of all removed materials to the Airport.
- Item No. 6 Item F-162 CHAIN-LINK FENCE, PART 4 - METHOD OF MEASUREMENT, **DELETE** all measurement items and **REPLACE** with the following:
  - 162-4.1. Chain-link fence will be measured along the top of the fence from center to center of end posts, excluding the length occupied by gate openings.
  - 162-4.2. Temporary Fence will be measured along the top of the fence from center to center of end posts, excluding the length occupied by gate openings.
  - 162-4.3. Temporary Swing Gate will be measured as complete units. Measurement will include installation at the start of work and removal after temporary gate is no longer needed.

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- **162-4.4.** 18-foot Single Cantilever Slide Gate will be measured as a complete unit. Measurement will include all motors, operators, card readers, controls, control devices, obstruction detection devices, limit switches, emergency release mechanism, loops, accessories, and all other materials and devices to provide a complete and fully-functioning gate. No separate measurement will be made for reinstallation of all salvaged signage and the salvaged security camera.
- **162-4.5.** Remove existing slide gate will be measured as a complete unit. Measurement will include full removal of existing gate, gate posts and foundations, fence fabric, all hardware, existing gate operator, existing card reader, and all existing ancillary devices associated with the existing gate control system that are to be replaced. No separate measurement will be made for removal and salvaging of all existing signage on the gate and adjacent fence, and removal and salvage of the existing camera.
- Item No. 7 Item F-162 CHAIN-LINK FENCE, PART 5 BASIS OF PAYMENT, **REVISE** 162-5.1 as follows:
  - **162-5.1** Payment will be made at the contract unit price per linear foot for fence and per each for **new** gates **and gate removals**.
- Item No. 8 Item F-162 CHAIN-LINK FENCE, PART 5 BASIS OF PAYMENT, **REVISE** items listed under "Payment will be made under:" to the following:

Item F-162a Remove Chain-Link Fence - per linear foot
Item F-162b Temporary Fence - per linear foot
Item F-162c Temporary Swing Gate - per each
Item F-162d 18-foot Single Cantilever Slide Gate - per each
Item F-162e Remove Existing Slide Gate - per each

- Item No. 9 Item F-170 STEEL BOLLARD, PART 1 DESCRIPTION, 170-1.1, **REVISE** this section as follows: "This item consists of replacing and/or installing new steel bollards (guard posts) as shown on the plans and/or as required by CBJ Standard Detail."
- Item No. 10 Item F-171 POWER GATE OPERATORS, PART 2 MATERIALS, Section 171-2.2 COMPONENTS, Part a. Operators, **ADD** the following after list item iv:
  - v. Operator shall include snow kit that includes snow brush and scrapers to reduce snow and ice buildup in operator and on drive rail.
- Item No. 11 Item F-171 POWER GATE OPERATORS, PART 2 MATERIALS, Section 171-2.2 COMPONENTS, Part G Control Devices, **ADD** the following after list item number 3:
  - **4. Push Button.** New Gate Operator shall include a push button that can be programmed for use by pedestrians to open the new gate from the inside (secure side) of the gate.
- Item No. 12 Item F-171 POWER GATE OPERATORS, PART 3 CONSTRUCTION REQUIREMENTS, Section 171-3.7 GUARANTEE, **REPLACE** this paragraph in its entirety with the following:

The Contractor shall guarantee that all materials or workmanship found defective within one year of final acceptance will be replaced at Contractor's expense, promptly upon notification and to the satisfaction of the Owner. The Contractor shall also provide a project-specific 5-year warranty to the Owner, from the manufacturer, for the power gate operator. The start date for the warranty will be the date of Substantial Completion of this project.

- Item No. 13 Item P-209 CRUSHED AGGREGATE BASE COURSE, PART 2 MATERIALS, **ADD** the following after 209-2.1:
  - **209-2.2 FILTER FABRIC**. Filter Fabric for temporary detour route shall be nonwoven geotextile for soil stabilization that meets AASHTO M-288.
- Item No. 14 Item P-209 CRUSHED AGGREGATE BASE COURSE, PART 3 CONSTRUCTION METHODS, **ADD** the following after 209-3.10:
  - **209-3.11 FILTER FABRIC.** Filter fabric shall be installed under temporary detour route for Gate E replacement. Fabric shall cover full-width of temporary roadway, and shall have minimum 2' overlap on any longitudinal joints.
- Item No. 15 Item P-209 CRUSHED AGGREGATE BASE COURSE, PART 4 METHOD OF MEASUREMENT, **ADD** the following at the end of this section:

No specific unit of measurement will apply to filter fabric. This item is incidental to temporary detour route construction.

Item No. 16 Item P-401 PLANT HOT MIX ASPHALT PAVEMENT, PART 8 – BASIS OF PAYMENT, Section 401-8.1 PAYMENT, Price Adjustment calculations, **REVISE** as follows:

PAB for Hot Mix Asphalt with PG **58-**28 = \$100.

Item No. 17 Item P-401 PLANT HOT MIX ASPHALT PAVEMENT, PART 9 – BASIS OF PAYMENT, **REVISE** Item P-401e as follows:

Item P-401e Asphalt Cement, PG 58-28 – per ton

- Item No. 18 Item P-610 STRUCTURAL PORTLAND CEMENT CONCRETE, PART 4 METHOD OF MEASUREMENT, Section 610-4.1, **REPLACE** this paragraph with the following:
  - 610-4.1 Structural portland cement concrete will be measured by the number of cubic yards of concrete complete in place and accepted. Measurement will be made at the Gate E location, Aircraft Rated Storm Drain Manhole Covers, thrust blocking for NWDA Water and Sewer, and Aircraft Washdown Facility only. In computing the volume of concrete for payment, the dimensions used will be those shown on the Plans or ordered by the Engineer. No measurements or other allowances will be made for excavation and disposal of existing concrete, forms, falsework, cofferdams, pumping, bracing, cutting and sealing expansion joints, reinforcing steel, or finishing of the concrete. No deductions will be made for the volumes of reinforcing steel or embedded items. If the pay item appears at locations other than Gate E, Aircraft Rated Storm Drain Manhole Covers, thrust blocking, and Aircraft Washdown Facility, no measurement for payment will be made. All portland cement concrete not specifically measured above will be considered incidental to other bid items.
- Item No. 19 Item P-610 STRUCTURAL PORTLAND CEMENT CONCRETE, PART 5 -BASIS OF PAYMENT, Section 610-5.1, **REPLACE** the first paragraph with the following:
  - **610-5.1** Payment for P-610a at the Gate E location, Aircraft Rated Storm Drain Manhole Covers, thrust blocking for NWDA water and sewer, and Aircraft Washdown Facility will be made at the contract unit price per cubic yard for structural portland cement concrete. Reinforcing steel will be subsidiary to the work.

Addendum No. 3 CBJ Contract No. BE18-213

- Item No. 20 Item U-100 WATER SYSTEM, PART 2 MATERIALS, **ADD** the following after 100-2.15 TEMPORARY WATER SYSTEM:
  - **100-2.16 YARD HYDRANT.** Frostproof Yard Hydrant shall be Campbell J1 Heavy Duty Frostproof (YH-4) yard hydrant or approved equal. All other materials shall be as shown on the Plans.
- Item No. 21 Item U-100 WATER SYSTEM, PART 3 CONSTRUCTION REQUIREMENTS, **ADD** the following after 100-3.16 DISINFECTION:

#### **100-3.17 YARD HYDRANT**

Frostproof Yard Hydrant shall be installed as shown in the Plans or as directed by the Engineer.

- Item No. 22 Item U-100 WATER SYSTEM, PART 4 METHOD OF MEASUREMENTS, **ADD** the following:
  - **100-4.5** Frostproof Yard Hydrants will be measured per each, installed per the Plans.
- Item No. 23 Item U-100 WATER SYSTEM, PART 5 BASIS OF PAYMENT, **ADD** the following after Item U-100c:

Item U-100d Frostproof Yard Hydrant – per each

- Item No. 24 Item U-200 SANITARY SEWER SYSTEM, PART 2 MATERIALS, **ADD** the following after 200-2.9:
  - **200-2.10 SANITARY SEWER SUMP PUMP.** Sanitary Sewer Sump Pump shall be Hydromatic OSP50AB Sump Pump or approved equal with 1-1/4" NPT discharge. All pipe, conduit, bushings, elbows, valves, couplers, and other hardware shall be as shown on the Plans.
- Item No. 25 Item U-200 SANITARY SEWER SYSTEM, PART 3 CONSTRUCTION REQUIREMENTS, **ADD** the following after 200-3.5:
  - **200-3.6 SANITARY SEWER SUMP PUMP.** Sanitary Sewer Sump Pump shall be installed per the Plans or as directed by Engineer. Sump pump installation includes installation of sump pump, conduit from pump to power source, sump pump, discharge pipe, all pipe required to route to discharge point shown in the plans, check valves, bushings, plug valves, elbows, unions, couplers, and all other necessary hardware and incidentals required to install a fully functioning sump pump system.
- Item No. 26 Item U-200 SANITARY SEWER SYSTEM, PART 4 METHOD OF MEASUREMENT, REPLACE this section with the following:
  - **200-4.1** 1-1/4 Inch HDPE Sewer Pipe will be measured by the linear foot of pipe installed and completed.
  - **200-4.2** Sanitary Sewer Sump Pump will be measured per each. No separate measurement will be made for all conduit, fittings, bushings, check valves, flap valves, or other materials and hardware necessary to install a fully functioning sump pump assembly at the aircraft washdown facility.
  - **200-4.3** Sanitary Sewer Services & Laterals will be measured per each.

Item No. 27 Item U-200 SANITARY SEWER SYSTEM, PART 5 – BASIS OF PAYMENT, **ADD** the following after Item U-200c:

Item U-200d Sanitary Sewer Sump Pump – per each

Item No. 28 Item U-500 ELECTRICAL SYSTEM, **REPLACE** this specification in its entirety with the included ITEM U-500 ELECTRICAL SYSTEM – Addendum No. 3.

### **VOLUME II – APPENDICES:**

Item No. 29 ADD the included Existing Geothermal Loop Field Record Drawings as Appendix A.

### **VOLUME III – DRAWINGS:**

The following Sheets are labeled Addendum No. 3, dated 7/23/2018:

Item No. 30	SHEET 2	Delete Sheet 2 and Replace with the attached Sheet 2.1.
Item No. 31	SHEET 3	Delete Sheet 3 and Replace with the attached Sheet 3.1.
Item No. 32	SHEET 8	Delete Sheet 8 and Replace with the attached Sheet 8.1.
Item No. 33	SHEET 10	Delete Sheet 10 and Replace with the attached Sheet 10.1.
Item No. 34	SHEET 11	Delete Sheet 11 and Replace with the attached Sheet 11.1.
Item No. 35	SHEET 12	Delete Sheet 12 and Replace with the attached Sheet 12.1.
Item No. 36	SHEET 13	Delete Sheet 13 and Replace with the attached Sheet 13.1.
Item No. 37	SHEET 14	Delete Sheet 14 and Replace with the attached Sheet 14.1.
Item No. 38	SHEET 15	Delete Sheet 15 and Replace with the attached Sheet 15.1.
Item No. 39	SHEET 19	Delete Sheet 19 and Replace with the attached Sheet 19.1.
Item No. 40	SHEET 20	Delete Sheet 20 and Replace with the attached Sheet 20.1.
Item No. 41	SHEET 21	Delete Sheet 21 and Replace with the attached Sheet 21.1.
Item No. 42	SHEET 32	Delete Sheet 32 and Replace with the attached Sheet 32.1.
Item No. 43	SHEET 37	Delete Sheet 37 and Replace with the attached Sheet 37.1.
Item No. 44	SHEET 39	Delete Sheet 39 and Replace with the attached Sheet 39.1.
Item No. 45	SHEET 41	Delete Sheet 41 and Replace with the attached Sheet 41.1.
Item No. 46	SHEET 44	Delete Sheet 44 and Replace with the attached Sheet 44.1.
Item No. 47	SHEET 45	Delete Sheet 45 and Replace with the attached Sheet 45.1.

Item No. 48 SHEET 46 Delete Sheet 46 and Replace with the attached Sheet 46.1.

Item No. 49 SHEET AD1 Delete Sheet AD1 and Replace with the attached Sheet AD1.1

Greg Smith,

Contract Administrator

Total number of pages contained within this Addendum: 45

#### **BASE BID SCHEDULE 1: NEDA WEST SIDE**

PAY ITEM	SCHEDULE 1: NEDA WEST SIDE		APPROX.	UNIT P	RICE	AMO	JNT
NO.	PAY ITEM DESCRIPTION	PAY UNIT	QUANTITY	DOLLARS	CENTS	DOLLARS	CENTS
D-701a	Polyethylene Corrugated Pipe, 12-inch	Linear Foot	15				
D-701b	Polyethylene Corrugated Pipe, 15-inch	Linear Foot	312				
D-701c	Polyethylene Corrugated Pipe, 18-inch	Linear Foot	25				
D-701d	Polyethylene Corrugated Pipe, 36-inch	Linear Foot	25				
D-701e	Corrugated Metal Pipe, 18-Inch	Linear Foot	93				
D-701f	Connect Pipe to Existing Pipe	Each	2				
D-702a	Trench Drain	Linear Foot	180				
D-702b	Trench Drain Connection	Each	1				
D-751a	Manhole, Type I	Each	4				
D-751b	Connect to Existing Storm Drain Manhole	Each	1				
D-751c	Oil & Water Separator	Each	2				
D-751d	Manhole, Type II	Each	1				
D-751f	Adjust Field Inlets	Each	4				
D-751g	Aircraft Rated Covers	Each	4				
F-162e	Relocate Existing Gate Sensor	Each	1				
G-100a	Mobilization and Demobilization	Lump Sum	1	Lump	Sum		
G-135a	Construction Surveying by the Contractor	Lump Sum	1	Lump	Sum		
G-135b	Extra Survey Party	Hour	20				
G-150a	Equipment Rental	Hour	40				
G-300a	CPM Scheduling	Lump Sum	1	Lump	Sum		
G-700a	Airport Flagger	Contingent Sum	1	Contingent	Sum	2,000	00
G-700b	Temporary Construction Signs	Lump Sum	1	Lump	Sum		
P-152a	Unclassified Excavation	Cubic Yard	5,400				
	Subbase Course	Ton	2,600				
	Erosion, Sediment and Pollution Control Administration	Lump Sum	1	Lump	Sum		
P-157c	Temporary Erosion, Sediment and Pollution Control	Lump Sum	1	Lump	Sum		
P-157e	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	1	Contingent	Sum	1,700	00

**COMPANY NAME** 

P-157f	Withholding	Contingent Sum	1	Contingent	Sum	1,000	00
P-160a	Excavation of AC, RAP, or PCC Pavement	Square Yard	2,600				
P-165a	Removal of Structures	Lump Sum	1	Lump	Sum		
P-209b	Crushed Aggregate Base Course	Ton	8,150				
P-401a	Hot Mix Asphalt Type II, Class B	Ton	8,915				
P-401b	Hot Mix Asphalt Price Adjustment	Contingent Sum	1	Contingent	Sum	75,000	00
P-401c	Hot Mix Asphalt Type V, Class S	Ton	5,950				
P-401e	Asphalt Cement, PG 58-28	Ton	490				
P-401f	Asphalt Cement, PG 64-28	Ton	327				
P-603a	Tack Coat, PG 58-28	Ton	25				
P-610a	Structural Portland Cement Concrete	Cubic Yard	35				
P-620c	Runway and Taxiway Painting	Lump Sum	1	Lump	Sum		
P-620f	Painted Marking Removal	Lump Sum	1	Lump	Sum		
P-650e	Concrete Tiedown Anchor	Each	9				
P-660b	Reflective Marker, Type II	Each	4				
P-670a	Hazard Marker Barrier, Plastic	Each	110				
T-901a	Seeding	Acre	2				
T-901c	Water for Maintenance	M-Gal	1,000				
T-905a	Topsoiling	Square Yard	8,150				
U-700b	Extend Branch Mains	Lump Sum	1	Lump	Sum		

Base Bid Schedule No. 1 Total:	
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COMPANY NAME	

#### **BASE BID SCHEDULE 2: NWDA**

7,02 2.2	SCHEDULE 2: NWDA			UNIT P	DICE	AMOL	INIT
PAY ITEM			APPROX.			AMOU	
NO.	PAY ITEM DESCRIPTION	PAY UNIT	QUANTITY	DOLLARS	CENTS	DOLLARS	CENTS
D-701a	Polyethylene Corrugated Pipe, 12-inch	Linear Foot	914				
D-702a	Trench Drain	Linear Foot	860				
D-702b	Trench Drain Connection	Each	3				
D-751b	Connect to Existing Storm Drain Manhole	Each	1				
D-751e	Manhole, Type III	Each	6				
F-162a	Remove Chain-Link Fence	Linear Foot	100				
F-162b	Temporary Fence	Linear Foot	120				
F-162c	Temporary Swing Gate	Each	1				
F-162d	18-foot Single Cantilever Slide Gate	Each	1				
F-162e	Remove Existing Slide Gate	Each	1				
G-100a	Mobilization and Demobilization	Lump Sum	1	Lump	Sum		
G-135a	Construction Surveying by the Contractor	Lump Sum	1	Lump	Sum		
G-135b	Survey Crew	Hour	20				
G-150a	Equipment Rental	Hour	40				
G-300a	CPM Scheduling	Lump Sum	1	Lump	Sum		
G-700a	Airport Flagger	Contingent Sum	1	Contingent	Sum	2,500	00
P-152a	Unclassified Excavation	Cubic Yard	4800				
P-152b	Unsuitable Excavation	Cubic Yard	300				
P-154b	Subbase Course	Ton	3950				
P-157a	Erosion, Sediment and Pollution Control Administration	Lump Sum	1	Lump	Sum		
P-157c	Temporary Erosion, Sediment and Pollution Control	Lump Sum	1	Lump	Sum		
P-157e	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	1	Contingent	Sum	2,700	00
P-157f	Withholding	Contingent Sum	1	Contingent	Sum	1,000	00
P-160a	Excavation of AC, RAP, or PCC Pavement	Square Yard	9400				
P-165a	Removal of Structures	Lump Sum	1	Lump	Sum		
P-209b	Crushed Aggregate Base Course	Ton	3475				

**COMPANY NAME** 

P-401a	Hot Mix Asphalt Type II, Class B	Ton	2630				
P-401b	Hot Mix Asphalt Price Adjustment	Contingent Sum	1	Contingent	Sum	12,500	00
P-401e	Asphalt Cement, PG 58-28	Ton	144.65				
P-603a	Tack Coat, PG 58-28	Ton	8				
P-620c	Runway and Taxiway Painting	Lump Sum	1	Lump	Sum		
P-610a	Structural Portland Cement Concrete	Cubic Yard	6				
P-650e	Concrete Tiedown Anchor	Each	12				
P-661a	Standard Sign	Lump Sum	1	Lump	Sum		
P-670a	Hazard Marker Barrier, Plastic	Each	110				
U-500b	Power Utility Work	Lump Sum	1	Lump	Sum		

Base Bid Schedule No. 2 Total:	
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COMPANY NAME	

#### **ADDITIVE ALTERNATE 1: NEDA EAST SIDE**

1	ALTERNATE I: NEDA EAST SIDE						
				UNIT P	RICE	AMOL	JNT
PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	DOLLARS	CENTS	DOLLARS	CENTS
D-701a	Polyethylene Corrugated Pipe, 12-inch	Linear Foot	167				
D-701b	Polyethylene Corrugated Pipe, 15-inch	Linear Foot	167				
D-751e	Manhole, Type III	Each	2				
G-100a	Mobilization and Demobilization	Lump Sum	1	Lump	Sum		
G-135a	Construction Surveying by the Contractor	Lump Sum	1	Lump	Sum		
G-135b	Extra Survey Party	Hour	20				
G-150a	Equipment Rental	Hour	40				
G-300a	CPM Scheduling	Lump Sum	1	Lump	Sum		
G-700a	Airport Flagger	Contingent Sum	1	Contingent	Sum	1,500	00
P-152a	Unclassified Excavation	Cubic Yard	1,700				
	Subbase Course	Ton	13,750				
	Erosion, Sediment and Pollution Control Administration	Lump Sum	1	Lump	Sum		
P-157c	Temporary Erosion, Sediment and Pollution Control	Lump Sum	1	Lump	Sum		
P-157e	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	1	Contingent	Sum	1,700	00
	Withholding	Contingent Sum	1	Contingent	Sum	1,000	00
	Excavation of AC, RAP, or PCC Pavement	Square Yard	1,270				
P-165a	Removal of Structures	Lump Sum	1	Lump	Sum		
P-209b	Crushed Aggregate Base Course	Ton	8,375				
P-401a	Hot Mix Asphalt Type II, Class B	Ton	9,100				
P-401b	Hot Mix Asphalt Price Adjustment	Contingent Sum	1	Contingent	Sum	75,000	00
P-401c	Hot Mix Asphalt Type V, Class S	Ton	6,065				
P-401e	Asphalt Cement, PG 58-28	Ton	501				
P-401f	Asphalt Cement, PG 64-28	Ton	334				
P-603a	Tack Coat, PG 58-28	Ton	26				
P-620c	Runway and Taxiway Painting	Lump Sum	1	Lump	Sum		
P-650e	Concrete Tiedown Anchor	Each	27				

**COMPANY NAME** 

P-660b	Reflective Marker, Type II	Each	11		
T-901a	Seeding	Acre	2		
T-901c	Water for Maintenance	M-Gal	920		
T-905a	Topsoiling	Square Yard	8,525		

Additive Alternate No. 1 Total:		
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COMPANY NAME		

### ADDITIVE ALTERNATE 2: NWDA WATER & SEWER

				UNIT P	RICE	AMOL	JNT
PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	DOLLARS	CENTS	DOLLARS	CENTS
G-100a	Mobilization and Demobilization	Lump Sum	1	Lump	Sum		
G-135a	Construction Surveying by the Contractor	Lump Sum	1	Lump	Sum		
G-135b	Extra Survey Party	Hour	5				
G-150a	Equipment Rental	Hour	5				
	CPM Scheduling	Lump Sum	1	Lump	Sum		
	Erosion, Sediment and Pollution Control Administration	Lump Sum	1	Lump	Sum		
P-157c	Temporary Erosion, Sediment and Pollution Control	Lump Sum	1	Lump	Sum		
P-157e	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	1	Contingent	Sum	500	00
P-157f	Withholding	Contingent Sum	1	Contingent	Sum	1,000	00
P-160a	Excavation of AC, RAP, or PCC Pavement	Square Yard	50				
P-165a	Removal of Structures	Lump Sum	1	Lump	Sum		
P-610a	Structural Portland Cement Concrete	Cubic Yard	4				
U-100a	Water Main	Linear Foot	145				
U-100b	Gate Valve	Each	3				
U-100e	Fire Hydrant Assembly	Each	1				
U-100f	Pipe Insulation	Board	15				
U-100g	Connect to Existing 10-inch HDPE	Lump Sum	1	Lump	Sum		
U-200a	6-Inch PVC Sewer Pipe	Linear Foot	200				
U-200b	1 1/4-Inch HDPE Sewer Pipe	Linear Foot	260				
U-200c	Sanitary Sewer Manhole	Each	2				
U-200e	Sanitary Sewer Services & Laterals	Each	2				
U-200f	Locate Sanitary Sewer Service	Each	1				

Additive Alternate No. 2 Total:	
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COMPANY NAME	

### ADDITIVE ALTERNATE 3: AIRCRAFT WASHDOWN FACILITY

				UNIT PRICE		AMO	AMOUNT	
PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	DOLLARS CENTS		DOLLARS	CENTS	
D-701a	Polyethylene Corrugated Pipe, 12-inch	Linear Foot	40					
D-751e	Manhole, Type III	Each	1					
G-100a	Mobilization and Demobilization	Lump Sum	1	Lump	Sum			
G-135a	Construction Surveying by the Contractor	Lump Sum	1	Lump	Sum			
G-135b	Extra Survey Party	Hour	2					
G-150a	Equipment Rental	Hour	2					
G-300a	CPM Scheduling	Lump Sum	1	Lump	Sum			
P-152a	Unclassified Excavation	Cubic Yard	100					
P-157a	Erosion, Sediment and Pollution Control Administration	Lump Sum	1	Lump	Sum			
P-157c	Temporary Erosion, Sediment and Pollution Control	Lump Sum	1	Lump	Sum			
P-157e	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	1	Contingent	Sum	500	00	
P-157f	Withholding	Contingent Sum	1	Contingent	Sum	1,000	00	
P-209b	Crushed Aggregate Base Course	Ton	100					
P-610a	Structural Portland Cement Concrete	Cubic Yard	50					
U-100c	1-inch Water Service	Each	1					
U-100d	Frostproof Yard Hydrant	Each	1					
U-100f	Pipe Insulation	Boards	3					
U-200b	1-1/4-Inch HDPE Sewer Pipe	Linear Foot	20					
U-200d	Sanitary Sewer Sump Pump	Each	1					
U-200e	Sanitary Sewer Services & Laterals	Each	1					
U-500b	Power Utility Work	Lump Sum	1	Lump	Sum			
U-500c	Power Service Trenching/Cable/Conduit	Linear Foot	250					

Additive Alternate No. 3 Total:	
COMPANY NAME	

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this section.

#### 1.2 SECURITY PROGRAM AT JUNEAU INTERNATIONAL AIRPORT

#### A. The Contractor shall:

- 1. Protect Work area and existing premises and Owner's operations from theft, vandalism, and unauthorized entry.
- 2. Prepare a Safety Plan Compliance Document in compliance with FAA Advisory Circular 150/5370-2.
- 3. Initiate security program, approved by Owner, prior to start of Work, including coordination of all temporary fencing, gates, and controls to meet Transportation Security Administration (TSA) and JNU Airport Security requirements.
- 4. Maintain program throughout construction period until Owner's occupancy.
- 5. All security changes necessary for construction activities to the perimeter gates, doors, and/or fence must be requested 60 days in advance. Temporary changes may be requested within 72 hours.
- 6. Vehicles, equipment, and stockpiled material may not be parked or staged within 6 feet of the perimeter fence, gate, and/or door.

#### 1.3 ENTRY AND GATE E ACCESS CONTROL

#### A. The Contractor shall:

- 1. Provide a secure Work area in accordance with the drawings and other provisions relating to Airport Security.
- 2. Restrict entry of persons and vehicles into the project site and the airport restricted area (airport property inside the fence).
- 3. Allow entry only to authorized persons with proper identification.
- 4. Utilize gate access as outlined on Sheets AD1, AD2 and AD3 in accordance with JNU Airport security to access all work areas.
- 5. Construct all temporary fencing, gates and controls in accordance with applicable security requirements and contract requirements.
- 6. Complete all work associated with the removal, replacement, testing and start-up of the operable gate at GATE E within seven (7) contiguous calendar days. Coordinate gate shut-down and installation schedule with Project Engineer and Airport.
- 7. Coordinate the installation, and the subsequent removal of the temporary access gate at GATE E with the Project Engineer and Airport.
- 8. In addition to any detour signage which may be required by the contract, furnish and install temporary DETOUR signage to be attached to both sides of the existing fencing adjacent to the temporary access gate. Submit product data for review prior to manufacture and installation. Signs to read:

#### "GATE E DETOUR"

"Gate will be open from 7:00 am to 10:00 pm daily"

- B. Owner shall control entrance of persons and vehicles related to Owner's operations. At GATE E, the Owner will open the temporary access gate at the GATE E detour at 7:00 am and will close and lock the temporary gate at 10:00 pm for each of the 7 days allotted for the gate replacement work. The Owner will also post a gate guard at the GATE E detour who will allow entry only to authorized persons with proper identification during this same time.
- C. The Contractor shall be liable for any fines levied against the Airport by the TSA resulting from actions of the Contractor, or those for whom the Contractor is responsible, that cause a breach of security in the area of construction, to include any points of entry into the Air Operations Area (AOA), also known as the restricted area of the Airport, utilized for the construction project.

Failure to maintain security will also include failure to abide by the Airport badge identification program or other requirements pertaining to the security of the Airport.

#### 1.4 AIR OPERATIONS AREA (AOA) BADGE REQUIREMENTS

- A. Only Juneau International Airport Identification Badge, Law Enforcement Credentials, Federal Inspector Credentials and Airline Crew Credentials are recognized as authority to enter or be present in the restricted area of the airport without escort. Only persons identified by this system are permitted access. All Airport Identification Badges must be worn on the outermost garment above the waist.
- B. Any person found in a location that is not the work area or access route to and from the work area will be removed from the area and action will be taken against violators as appropriate.
- C. Security Identification Display Area (SIDA) badges are required for the Work. Contractor shall apply for clearance with Juneau International Airport Badging Office. Requirements for each employee include completing an Identification Badge/Media Application, photo proof of identity, either proof of US citizenship or work authorization paperwork, and completion of a Federal Security Threat Assessment. Contractor shall assume a minimum of two weeks for the clearance process, however, the clearance process is conducted by TSA and delays may exceed two weeks.
- D. Contractor's personnel are subject to random checks for compliance with badging and permit regulations. Such checks may be conducted by Airport Police, Airport Employees, and/or TSA.
- E. Any falsifications can result in revocation of the badges for the individual in question, and any fines incurred from the violations will be passed to the responsible party.
- F. The Airport Badge Application is an agreement between the Airport and the badge holder. The badge application provides all rules and procedures the badge holder must comply with while in the restricted area of the airport.
- G. In order to maintain accountability for all Airport Identification Badges issued, the Contractor is responsible for physically collecting and returning to the Airport all outstanding badges no longer used for the construction project including those badges carried by persons no longer working on the project. Proof of return is the Airport Receipt issued by the Airport.
- H. When someone terminates employment, the Contractor shall immediately notify the Airport so that the badge can be deactivated. If termination is outside of the normal working hours, the Contractor shall immediately notify Airport Police at 586-0899 or 321-3802 of the termination.
- I. A non-refundable fine of \$300.00 will be levied against the Contractor for each badge not returned within five (5) days of badge expiration, employee termination or completion of the project, whichever is sooner.
- J. Should an employee lose his or her Airport Identification Badge, he or she shall immediately notify the Contractor, who shall then immediately notify the Airport to deactivate the badge access. If lost after normal business hours, the lost badge shall be reported to Airport Police. If the lost badge is found the Contractor must notify the Airport to reactivate the badge. Further, the Airport will confirm the employee's employment status prior to reactivation of a badge reported lost, then found by its owner. If requested, a replacement badge will not be issued until a replacement request letter is received and the \$200.00 lost badge fee is paid. This is a separate fee from the non-refundable fine of \$300.00 applied to non-returned badges. If a replacement badge is issued for a lost badge, and the \$200.00 fee paid, the Contractor will not be charged the non-refundable fine of \$300.00.

- K. Final payment to the Contractor will not be authorized until all badges are returned to the Airport.
- L. The Contractor's and subcontractor's personnel shall be badged for this project as needed to complete the Work. Upon request of the Contractor, Escort Authority may be authorized by the Owner to specific employees or subcontractors of the Contractor when the Work is limited in duration. In such cases, the Contractor is fully responsible for all such personnel.

#### 1.5 VEHICLE ACCESS IN THE AOA

- A. The TSA requires the Airport Operator to control access into and prevent unauthorized vehicles from entering the AOA. In compliance with this requirement, the Airport Operator has established procedures to authorize or deny access to the AOA and to identify and control vehicles while within the AOA.
- B. When any vehicle, other than one that has prior approval from the airport operator, must travel over any portion of an area used by aircraft moving under its own power, as well as the 135-AOA ramp, it will be properly identified and an amber colored rotating beacon is required.
- C. All Contractor vehicles requiring access to the AOA shall display a company name/logo. Company name/logo must be affixed to both sides of the vehicle (vehicle magnets are not prohibited in the AOA).
- D. Contractor vehicles are only authorized in the areas where their contract work is being performed and on the access routes to and from that area; during contract working hours (unless otherwise required for emergencies).
- E. A Contractor vehicle is authorized in the AOA only when within its area of authorization, the safety flag are properly displayed, and all occupants have the required Airport Identification Badge.

#### 1.6 PROJECT SITE SECURITY

- A. All access points into the project area must be kept secure. Temporary barriers shall be required and described in the Contractor's approved Safety Plan Compliance Document. The Contractor shall notify the Owner at least 72 hours before the following conditions:
- B. When construction is to begin.
- C. When Work is complete.

#### 1.7 SAFETY PLAN

- A. Contractor shall submit a written Safety Plan Compliance Document developed in accordance with FAA Advisory Circular 150/5370-2 for work in the AOA. The plan shall address the following:
  - 1. Maintaining safe airport operations in the vicinity of the Work, including separating pedestrian, vehicles, equipment, and aircraft.
  - 2. Maintaining clean and safe construction operations including controlling Foreign Object Debris (FOD).
  - 3. Controlling access to the Work area through the use of temporary fencing and barricades and restricting access by unauthorized persons.
  - 4. Understanding the safety problems and hazards described in AC 150/5370-2, Operational Safety on Airports During Construction.
  - 5. Conducting activities so as not to violate any safety standards contained in AC 150/5370-2 or any of the references therein.
  - 6. Promptly taking all actions necessary to prevent or remedy any unsafe or potentially unsafe conditions as soon as they are discovered.
  - 7. Identifying locations for stockpiled materials, equipment operations, access to haul routes, and construction site parking.

- 8. Marking the area of Work as a hazardous area on the aircraft ramp area with barricades, traffic cones, flags, or flashers. These markings restrict access and make hazards obvious to aircraft, personnel, and vehicles. During periods of low visibility and at night, identify hazardous areas with red flashing or steady-burning light.
- 9. The Contractor must ensure that all trash, debris, and bird attractants are stored in proper areas. Further, all vehicles/equipment are clean of bird attractants.
- B. Contractor's overall project safety plan shall be reviewed and updated at Progress Meetings and at other times as required by the Owner's Representative.

#### 1.8 RESTRICTIONS

- A. The Contractor shall not allow cameras on site or photographs to be taken by persons under the control of the Contractor except by written approval of the Owner.
- B. Contractor shall, at all times, give way to all aircraft and follow directions from aircraft ground crews.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

**END OF SECTION 01 5200** 

#### ITEM U-500 ELECTRICAL SYSTEM

#### PART 1 - DESCRIPTION

**500-1.1** Provide all coordination work necessary to allow AEL&P to supply and install equipment and materials needed to extend or modify their existing utility services, or provide new services as shown on the Plans. Perform work in conformance with the plans and per AEL&P Specifications. All utility work shown in the Plans to be completed by others shall be paid for by the City & Borough of Juneau (CBJ). Contractor shall provide all necessary coordination with the utility companies to allow them to perform their work. All utility work related to Gate E equipment and washdown facility power service shall be paid for by the Contractor.

#### PART 2 - MATERIALS

**500-2.1** Provide submittals neatly bound and clearly indexed, and include applicable catalog numbers, cuts, wiring diagrams, performance data, operation and maintenance manuals, etc., for all material and equipment listed in the Staking Sheets, AEL&P Specifications and RUS Detail Sheets.

#### PART 3 - CONSTRUCTION REQUIREMENTS

**500-3.1** Follow the current AEL&P Standards and Specifications. The local utility companies can be contacted by calling the phone numbers listed in Section 50-06.

Perform all work with qualified personnel licensed for the work involved.

Perform construction work in a thorough and workmanlike manner in accordance with the Staking Sheets, plans and specifications, and the construction drawings.

Installer must be approved by AEL&P.

Record exact locations of poles, guys and anchors. Record conductor sag and temperature when conductor was installed.

Coordinate utility work to avoid conflicts with other trades, and unscheduled service outages. Coordinate with utilities to provide as-built records of their work for incorporation into final as-built drawings.

After installation is complete, test for continuity and faults. Correct any deficiencies. After testing is complete, demonstrate that work conforms with plans, specifications, and staking sheets and is a complete and operable system.

Furnish a written guarantee that any materials or workmanship completed by the Contractor that are found defective within one year of final acceptance will be replaced at the Contractor's expense, promptly upon notification and to the satisfaction of the Engineer.

#### PART 4 - METHOD OF MEASUREMENT

**500-4.1** No specific unit of measurement will apply to this lump sum item. The Power Utility Work consists of all work required on this project to complete installation of the new Gate E and associated equipment, and a new power service for the aircraft washdown facility. New washdown facility power service will include new support rack, NEMA disconnects, breakers, receptacles, meter box, all conduit and conductors, posts, foundations, and all hardware and incidentals as shown in the Plans to provide a complete washdown facility power service.

#### ITEM U-500 ELECTRICAL SYSTEM

**500-4.2** Power service trenching/cable/conduit will be measured by the linear foot of completed trenching, conduit, and cable installed, including locator tape, trenching and backfill with suitable material per the Plans, all measured in place, completed, and accepted.

AEL&P utility work will be completed outside of the scope of this contract.

Provide all cutting, patching of asphalt and concrete needed for the utilities to do their work. Cutting and patching of concrete and asphalt shall be provided as needed and is incidental to the pay item. No other payment for this work will be provided.

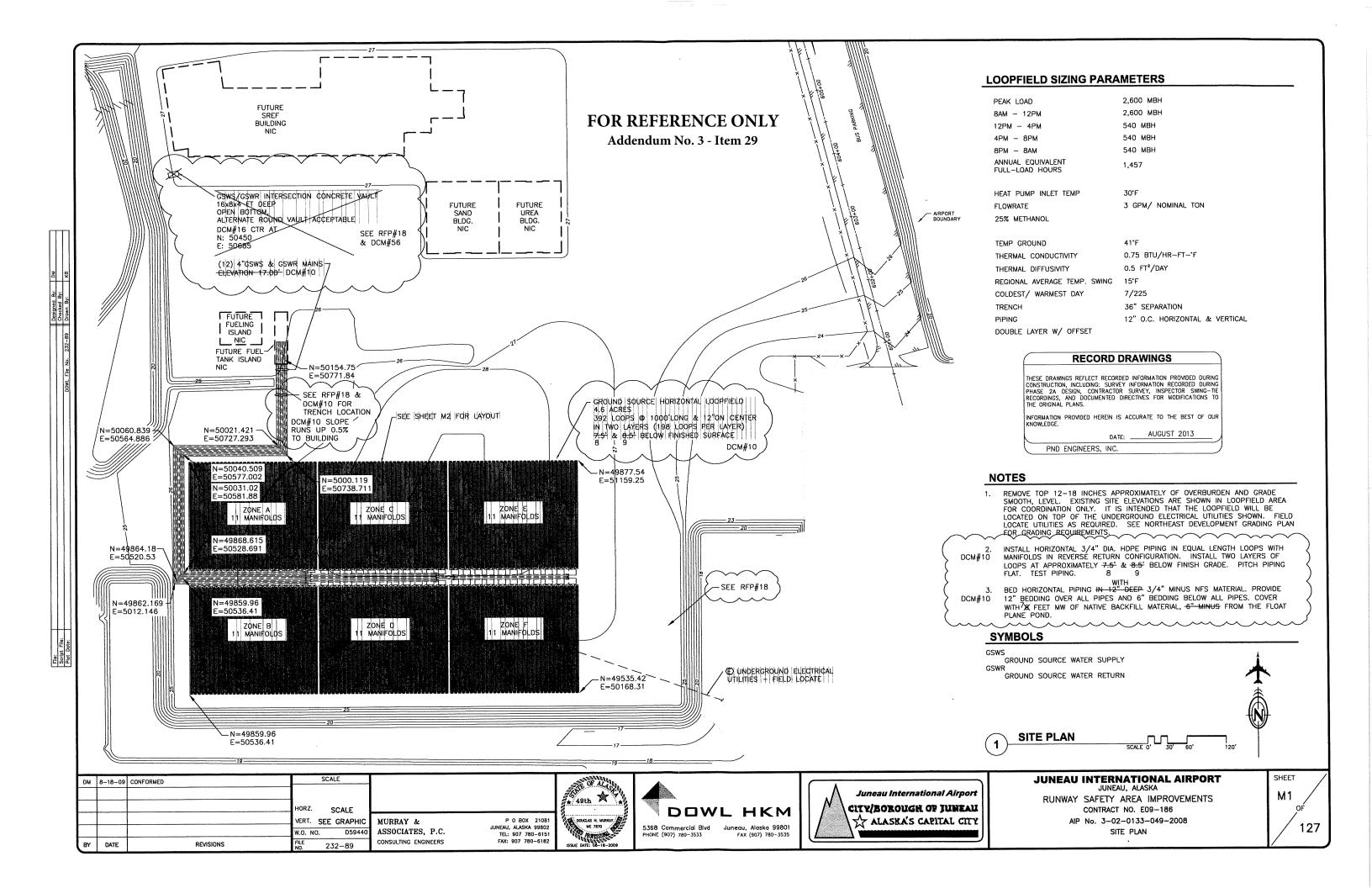
#### PART 5 - BASIS OF PAYMENT

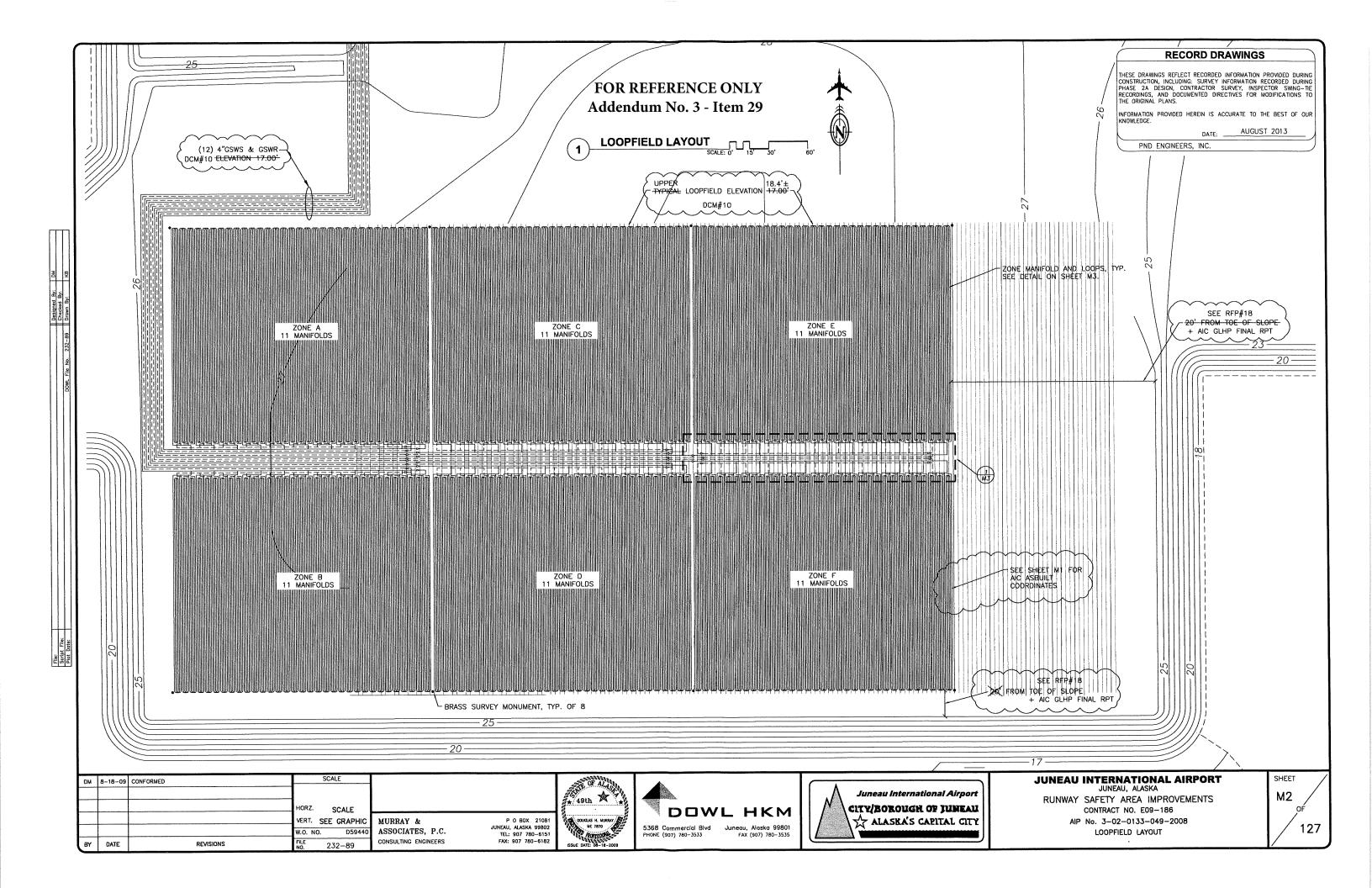
**500-5.1** Payment will be made at the contract lump sum price for the completed and accepted job. This price will be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

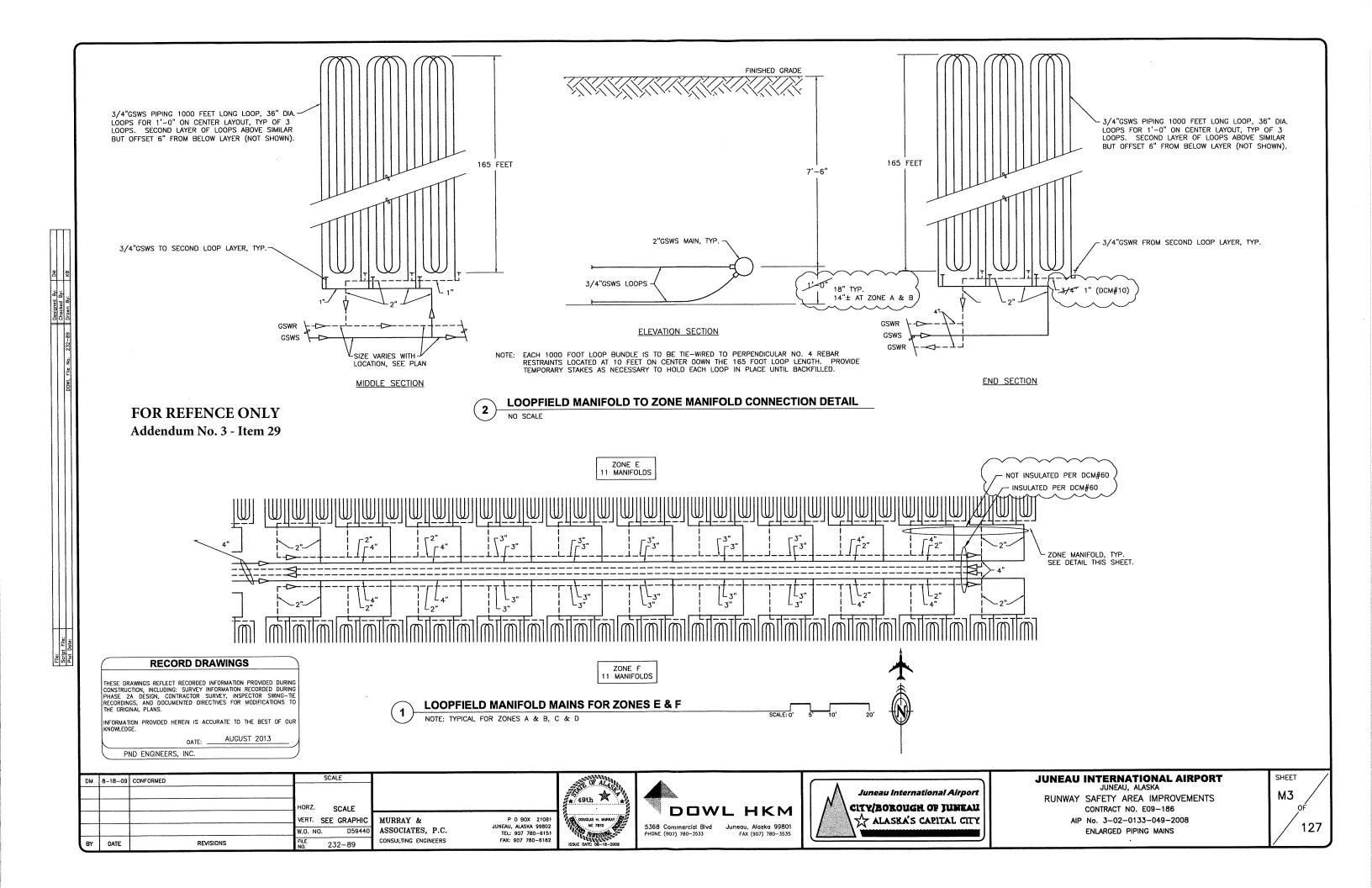
Payment will be made under:

Item U-500b Power Utility Work – per lump sum

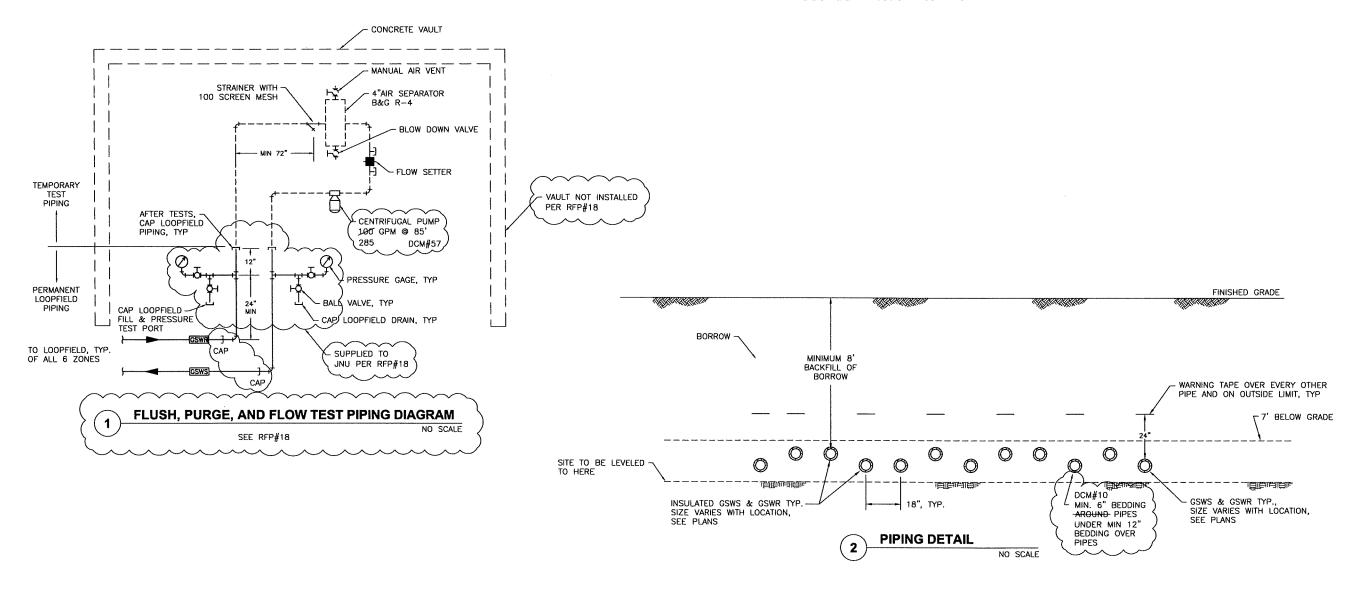
Item U-500c Power Service Trenching/Cable/Conduit – per linear foot







## FOR REFERENCE ONLY Addendum No. 3 - Item 29



#### **RECORD DRAWINGS**

THESE DRAWINGS REFLECT RECORDED INFORMATION PROVIDED DURING CONSTRUCTION, INCLUDING: SURVEY INFORMATION RECORDED DURING PHASE 2A DESIGN, CONTRACTOR SURVEY, INSPECTOR SWING—THE RECORDINGS, AND DOCUMENTED DIRECTIVES FOR MODIFICATIONS TO THE ORIGINAL PLANS.

INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF OUR

AUGUST 2013 DATE: \_\_

PND ENGINEERS, INC.

DM	8-18-09	CONFORMED	SCALE			
			HORZ.	S	CALE	
			VERT.	SEE	GRAPHIC	MURRAY &
			W.O. N	0.	059440	ASSOCIATES,
BY	DATE	REVISIONS	FILE NO.	23	2-89	CONSULTING ENGI

56 49th ★ P 0 BOX 21081 JUNEAU, ALASKA 99802 TEL: 907 780-6151 FAX: 907 780-6182

ASSOCIATES, P.C.

CONSULTING ENGINEERS





### **JUNEAU INTERNATIONAL AIRPORT**

JUNEAU, ALASKA RUNWAY SAFETY AREA IMPROVEMENTS CONTRACT NO. E09-186 AIP No. 3-02-0133-049-2008

DETAILS & DIAGRAMS

SHEET M4 127

# **ABBREVIATIONS**

GRAPHIC SCALE

	•		
ABN	ABANDONED	MAX	MAXIMUM
ACP	ASPHALT CONCRETE PAVEMENT	ME ME	MATCH EXISTING
	ASPHALI CONCRETE PAVEMENT	ME	
AD	ALGEBRAIC DIFFERENCE ALASKA ELECTRIC LIGHT AND POWER COMPANY AUTOMATED SURFACE OBSERVATION SYSTEM	MHHW	MEAN HIGHER HIGH WATER
AEL&P	ALASKA ELECTRIC LIGHT AND POWER COMPANY	MIN	MINIMUM
ASOS	AUTOMATED SURFACE OBSERVATION SYSTEM	ML	SILT
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION	MLLW	MEAN LOWER LOW WATER
BLDG	BUILDING	NOAA/NOS	NATIONAL OCEANIC AND ATMOSPHERIC
BOP	BOTTOM OF PIPE		ADMINISTRATION / NATIONAL OCEAN SERVICE
BVCE	BEGIN VERTICAL CURVE ELEVATION	N	NORTH
BVCS	BEGIN VERTICAL CURVE STATION	NOTAMS	NOTICE TO AIRMEN
CABC	CRUSHED AGGREGATE BASE COURSE	NTS	NOT TO SCALE
	CENTERLINE	OC	ON CENTER
€ CAP	CORRUGATED ALUMINUM PIPE	OD	OUTER DIAMETER
CAF	CORROGATED ALUMINUM FIFE	DC	POINT OF CURVATURE
CBJ	CITY & BOROUGH OF JUNEAU	PC PCC	PORTLAND CEMENT CONCRETE
CJ	CONTROL JOINT	PCC	
CMP	CORRUGATED METAL PIPE COMMUNICATION OR CURVE CORRUGATED PLASTIC PIPE CORRUGATED POLYETHYLENE PIPE	PI	POINT OF INTERSECT
С	COMMUNICATION OR CURVE	PRC	POINT OF REVERSE CURVATURE
CPP	CORRUGATED PLASTIC PIPE	PT	POINT OF TANGENCY
CPEP	CORRUGATED POLYETHYLENE PIPE	PVC PVI	POLYVINYL CHLORIDE
CY	CUBIC YARD		
DIA	DIAMETER	R	RADIUS
DIP	DUCTILE IRON PIPE	RAP	RECYCLED ASPHALT PAVEMENT
E	EAST OR ELECTRIC	RCP	REINFORCED CONCRETE PIPE
ĒA	EACH	RSA	RUNWAY SAFETY AREA
ELEC	ELECTRIC	RT	RIGHT
EL	ELEVATION	RW OR R/W	
ELEV	ELEVATION	S	SOUTH OR SEWER
EVCE	END VERTICAL CURVE ELEVATION	SD	SAND
EVCS	END VERTICAL CURVE STATION	SD /ED	STORM DRAIN FIELD DRAIN
		SDALD	STORM DRAIN CATCH BASIN
FAA	FEDERAL AVIATION ADMINISTRATION FLARED END SECTION	SD/FD SDCB SDMH	STORM DRAIN CATCH BASIN
FES		SDMH	STORM DRAIN MANHOLE
FG	FINISHED GROUND	SDR	STANDARD DIMENSION RATIO
FT	FOOT	SM	SILTY SAND
GB	GRADE BREAK	STA	STATION
GSHP	GROUND SOURCE HEAT PUMP	SREF	SNOW REMOVAL EQUIPMENT FACILITY
GV	GATE VALVE	J	SQUARE IARD
H	HORIZONTAL	TB	TEST BORING
HDPE	HIGH DENSITY POLYETHYLENE	TELE	TELEPHONE
HMA	HOT MIX ASPHALT	TW OR T/W	TAXIWAY
IN	INCH	TYP '	TYPICAL
INV	INVERT	UG	UNDERGROUND
JNU	JUNEAU INTERNATIONAL AIRPORT	V	VERTICAL
LF	LINEAR FOOT	vB	VALVE BOX
LT.	LEFT	w	WEST
	LLI I		HEO!

# **LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY BOUNDARY
		EDGE OF GRAVEL
		EDGE OF PAVEMENT
x x	—x——x—	FENCE
s	s	SANITARY SEWER LINE
w	v	WATER LINE
AW		ABANDONED WATER LINE
— Е — —		UNDERGROUND ELECTRIC LINE
с		UNDERGROUND COMMUNICATION LINE
SD	g	STORM DRAIN LINE
======		CULVERT
120	65 —	CONTOUR LINE
— RSA — —	00	RUNWAY SAFETY AREA
		RUNWAY CENTERLINE
		LIMIT OF CUT
		LIMIT OF FILL
		SILT FENCE
	<b>←</b> ···-	DRAINAGE
	•	BUILDING
<b>\(\rightarrow\)</b>	⊜	STORM DRAIN CATCH BASIN
0		SANITARY SEWER MANHOLE
0		SEWER CLEANOUT
		MONITORING WELL
D×3	×	WATER VALVE
A	<b>#</b>	HYDRANT
₩		RADIO TOWER
Œ		ELECTRIC METER
$\hat{}$		GUY ANCHOR
<del>-</del> \$-		ELECTRIC LIGHT POLE
ø		ELECTRIC POWER POLE
<b>\phi</b>		RUNWAY/TAXIWAY/APPROACH LIGHT
C		TELEPHONE PEDESTAL
ф	•	SIGN
		RUNWAY DISTANCE REMAINING SIGN
۰		BOLLARD
*		LIGHTED WIND CONE
- IP		JAWS/WIND EQUIPMENT
O ●IP		PIPE
•		3" WETLANDS ALUMINUM MONUMENT
•		PRIMARY PROPERTY CORNER MONUMENT
<b>⊘</b> тв		TEST BORING
		UTILITY MARKER
•		LORAN ANTENNA
		LIMIT OF WORK
	<b></b>	FLOATING SILT CURTAIN
		D-1 AGGREGATE BASE COURSE
	4 4	CONCRETE
ERAL NOTES		
MAL NOTES	·	
JE LOCATIONS OF	EVICTING LINDEDGEOU	IND LITHLITIES ARE RASED ON A

#### GENI

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON A COMBINATION OF FIELD SURVEY, AS BUILT RECORDS, AND APPROXIMATIONS FROM AIRPORT MAINTENANCE STAFF. FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR LOCATE ALL UTILITIES THAT THE LOCATE CALL CENTER DOES NOT LOCATE. THIS INCLUDES FAA, CBJ, AIRPORT, AND OTHER UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH APPROVED PERMITS AND ALL TIMELINES/STIPULATIONS LISTED FOR CONSTRUCTION OF THE PROJECT.
- 4. UTILITY WORK (EXCLUDING ALL STORM DRAINAGE, WATER AND SEWER IN ADDITIVE ALTERNATE 2, AND POWER IN ADDITIVE ALTERNATE 3) WILL BE COMPLETED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH ENGINEER.

INDEX OF CIVIL SHEETS		* * * *
SHEET TITLE	>	SHEET NO.
COVER SHEET	(	1
VICINITY MAP, LEGEND, NOTES , ABBREVIATIONS, & SHEET INDEX	7	2.1
ESTIMATED QUANTITIES, FACTORS, & SUMMARY TABLES	$\overline{}$	3.1
NE DEVELOPMENT AREA (NEDA) BID SCHEDULE 1 & ADDITIVE ALT. 1	$\overline{}$	4
NW DEVELOPMENT AREA (NWDA) BID SCHEDULE 2 & ADDITIVE ALTS. 2 &	3	5
SURVEY CONTROL SHEET	7	6
PROJECT LAYOUT PLAN	7	7
DEMOLITION PLANS	(	8.1-9
NWDA TYPICAL SECTIONS	1	10.1-11.1
NWDA TAXILANE PLAN & PROFILE	<u> </u>	12.1-15.1
NWDA STORM DRAIN PLAN & PROFILE	(_	16-19.1
BID ADDITIVE ALTERNATE 2 NWDA WATER PLAN & PROFILE		20.1-21.1
BID ADDITIVE ALTERNATE 2 NWDA SEWER PLAN & PROFILE	<u> </u>	22-23
NWDA GRADING PLAN		24-25
NEDA GRADING PLAN		26-29
NEDA E1 APRON REPAIR AREA GRADING PLAN	>	30
NEDA BLOCK 'M' HANGAR APRON DRAINAGE PLAN	Z	31
NEDA STORM DRAIN PLAN	<u> </u>	32.1-34
NWDA MARKING PLAN AND TIEDOWN LAYOUT	7	35
NEDA MARKING, REFLECTOR, & TIEDOWN LAYOUT PLAN	7	36
NWDA FENCING PLAN	(	37.1
MARKING DETAILS	1	38
ELECTRICAL DETAILS	<u> </u>	39.1
STORM DETAILS	(	40-42
TIEDOWN DETAILS		43A
FENCE DETAILS	>	44.1
GATE DETAILS		45.1
AIRCRAFT WASHDOWN FACILITY DETAILS	_	46.1

EROSION AND SEDIMENT CONTROL	PLAN
SHEET TITLE	SHEET NO.
NWDA EROSION & SEDIMENT CONTROL PLAN	EC1
NEDA EROSION & SEDIMENT CONTROL PLAN	EC2

CONSTRUCTION SAFETY PHASING	F	PLAN
SHEET TITLE		SHEET NO.
NWDA CONSTRUCTION PHASING		AD1.1
NEDA CONSTRUCTION PHASING		AD2-AD3

CBJ STANDARD DRAWINGS						
NO.	NAME					
203	SANITARY SEWER MANHOLE TYPES I & II					
205	MANHOLE HEIGHTS					
206A	STANDARD MANHOLE COVER & FRAME					
209	MANHOLE CONNECTION DETAILS					
210	SANITARY SEWER SADDLE TEE					
213	SANITARY SEWER SERVICE LATERAL					
215	SANITARY SEWER CROSSING					
218	COUPLING FOR DISSIMILAR SEWER PIPES					
219	RESIDENTIAL PUMP STATION PRESSURE MAIN					
304A	TYPE III CATCH BASIN					
305	OIL-WATER SEPARATOR STORM DRAIN MANHOLE					
306	STORM DRAIN MANHOLE COVER & FRAME					
404	HYDRANT GUARD POSTS					
406A	WATER SERVICE					

407 MAINLINE VALVE

412 RIGID INSULATION



LOCATION 

WH	7/23/18	1 ADDENDUM NO. 3	SCALE	
	1, 20, 10			
			HORZ.	SCALE
			VERT.	SEE GRAPHIC
			W.O. N	0. 1123.62033.02
BY	DATE	REVISIONS	FILE	





#AECL848 5368 Commercial Boulevard Juneau, Alaska 99801



# JUNEAU INTERNATIONAL AIRPORT JUNEAU, ALASKA

RSA IMPROVEMENTS - PHASE 2C CONTRACT NO. BE18-213 / AIP NO. 3-02-0103-073-2017

> VICINITY MAP, LEGEND, NOTES, ABBREVIATIONS, & SHEET INDEX

2.1

	ESTIMATED QUANTITIES  BID SCHEDULE 1 (BASE BID): NEDA WEST SIDE						
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY				
D-701a	POLYETHYLENE CORRUGATED PIPE, 12-INCH	LINEAR FOOT	15				
D-701b	POLYETHYLENE CORRUGATED PIPE, 15-INCH	LINEAR FOOT	312				
D-701c	POLYETHYLENE CORRUGATED PIPE, 18-INCH	LINEAR FOOT	25				
D-701d	POLYETHYLENE CORRUGATED PIPE, 36-INCH	LINEAR FOOT	25				
D-701e	CORRUGATED METAL PIPE, 18-INCH	LINEAR FOOT	93				
D-701f	CONNECT PIPE TO EXISTING PIPE	EACH	2				
D-702a	TRENCH DRAIN	LINEAR FOOT	180				
D-702b	TRENCH DRAIN CONNECTION	EACH	1				
D-751a	MANHOLE, TYPE I	EACH	4				
D-751b	CONNECT TO EXISTING STORM DRAIN MANHOLE	EACH	1				
D-751c	OIL & WATER SEPARATOR	EACH	2				
D-751d	MANHOLE, TYPE II	EACH	1				
D-751f	ADJUST FIELD INLETS	EACH	4				
D-751g	AIRCRAFT RATED COVERS	EACH	4				
F-162e	RELOCATE EXISTING GATE SENSOR	EACH	1				
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1				
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	1				
G-135b	EXTRA SURVEY PARTY	HOUR	20				
G-150a	EQUIPMENT RENTAL	HOUR	40				
G-300a	CPM SCHEDULING	LUMP SUM	1				
G-700a	AIRPORT FLAGGER	CONTINGENT SUM	1				
G-700b	TEMPORARY CONSTRUCTION SIGNS	LUMP SUM	1				
P-152a	UNCLASSIFIED EXCAVATION	CUBIC YARD	5,400				
P-154b	SUBBASE COURSE	TON	2,600				
P-157a	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1				
P-157c	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	1				
P-157e	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	1				
P-157f	WITHHOLDING	CONTINGENT SUM	1				
P-160a	EXCAVATION OF AC, RAP, OR PCC PAVEMENT	SQUARE YARD	2,600				
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	1				
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	8,150				
P-401a	HOT MIX ASPHALT TYPE II, CLASS B	TON	8,915				
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	1				
P-401c	HOT MIX ASPHALT TYPE V, CLASS S	TON	5,950				
P-401e	ASPHALT CEMENT, PG 58-28	TON	490				
P-401f	ASPHALT CEMENT, PG 64-28	TON	327				
P-603a	TACK COAT, PG 58-28	TON	25				
P-610a	STRUCTURAL PORTLAND CEMENT CONCRETE	CUBIC YARD	35				
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	1				
P-620f	PAINTED MARKING REMOVAL	LUMP SUM	1				
P-650e	CONCRETE TIEDOWN ANCHOR	EACH	9				
P-660b	REFLECTIVE MARKER, TYPE II	EACH	4				
P-670a	HAZARD MARKER BARRIER, PLASTIC	EACH	110				
T-901a	SEEDING	ACRE	1.7				
T-901c	WATER FOR MAINTENANCE	M-GAL	1,000				
T-905a	TOPSOILING	SQUARE YARD	8,150				
U-700b	EXTEND BRANCH MAINS	LUMP SUM	1				

ESTIMATED QUANTITIES							
	BID SCHEDULE 2 (BASE BID): NW DEVELOPMENT AREA						
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY				
D-701a	POLYETHYLENE CORRUGATED PIPE, 12-INCH	LINEAR FOOT	914				
D-702a	TRENCH DRAIN	LINEAR FOOT	860				
D-702b	TRENCH DRAIN CONNECTION	EACH	3				
D-751b	CONNECT TO EXISTING STORM DRAIN MANHOLE	EACH	1				
D-751e	MANHOLE, TYPE III	EACH	6				
F-162a	REMOVE CHAIN-LINK FENCE	LINEAR FOOT	25				
F-162b	TEMPORARY FENCE	LINEAR FOOT	25				
F-162d	24-FOOT SINGLE CANTILEVER GATE	EACH	1				
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1				
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	1				
G-135b	SURVEY CREW	HOUR	20				
G-150a	EQUIPMENT RENTAL	HOUR	40				
G-300a	CPM SCHEDULING	LUMP SUM	1				
G-700a	AIRPORT FLAGGER	CONTINGENT SUM	1				
P-152a	UNCLASSIFIED EXCAVATION	CUBIC YARD	4,800				
P-152b	UNSUITABLE EXCAVATION	CUBIC YARD	300				
P-154b	SUBBASE COURSE	TON	3,950				
P-157a	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1				
P-157c	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	1				
P-157e	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	1				
P-157f	WITHHOLDING	CONTINGENT SUM	1				
P-160a	EXCAVATION OF AC, RAP, OR PCC PAVEMENT	SQUARE YARD	9,400				
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	1				
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	3,400				
P-401a	HOT MIX ASPHALT TYPE II, CLASS B	TON	2,630				
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	1				
P-401e	ASPHALT CEMENT, PG 52-28	TON	145				
P-603a	TACK COAT, PG 52-28	TON	8				
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	1				
P-610a	STRUCTURAL PORTLAND CEMENT CONCRETE	CUBIC YARD	6				
P-650e	CONCRETE TIEDOWN ANCHOR	EACH	12				
P-661a	STANDARD SIGN	LUMP SUM	1				
P-670a	HAZARD MARKER BARRIER, PLASTIC	EACH	110				
U-500b	POWER UTILITY WORK	LUMP SUM	1				

ADDITIVE ALTERNATE 1: NEDA EAST SIDE				
ITEM NO.	PAY ITEM	PAY UNIT	QUANTI	
D-701a	POLYETHYLENE CORRUGATED PIPE, 12-INCH	LINEAR FOOT	167	
D-701b	POLYETHYLENE CORRUGATED PIPE, 15-INCH	LINEAR FOOT	167	
D-751e	MANHOLE, TYPE III	EACH	2	
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1	
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	1	
G-135b	EXTRA SURVEY PARTY	HOUR	20	
G-150a	EQUIPMENT RENTAL	HOUR	40	
G-300a	CPM SCHEDULING	LUMP SUM	1	
G-700a	AIRPORT FLAGGER	CONTINGENT SUM	1	
P-152a	UNCLASSIFIED EXCAVATION	CUBIC YARD	1,700	
P-154b	SUBBASE COURSE	TON	13,750	
P-157a	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1	
P-157c	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	1	
P-157e	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	1	
P-157f	WITHHOLDING	CONTINGENT SUM	1	
P-160a	EXCAVATION OF AC, RAP, OR PCC PAVEMENT	SQUARE YARD	1,270	
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	1	
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	8,375	
P-401a	HOT MIX ASPHALT TYPE II, CLASS B	TON	9,100	
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	1	
P-401c	HOT MIX ASPHALT TYPE V, CLASS S	TON	6,065	
P-401e	ASPHALT CEMENT, PG 58-28	TON	501	
P-401f	ASPHALT CEMENT, PG 64-28	TON	334	
P-603a	TACK COAT, PG 58-28	TON	26	
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	1	
P-650e	CONCRETE TIEDOWN ANCHOR	EACH	27	
P-660b	REFLECTIVE MARKER, TYPE II	EACH	11	
T-901a	SEEDING	ACRE	1.8	
T-901c	WATER FOR MAINTENANCE	M-GAL	920	
T-905a	TOPSOILING	SQUARE YARD	8,525	

ESTIMATED QUANTITIES				
ADDITIVE ALTERNATE 2: NWDA WATER & SEWER				
ITEM NO.	PAY ITEM	PAY UNIT	QUANT	
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1	
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	1	
G-135b	EXTRA SURVEY PARTY	HOUR	5	
G-150a	EQUIPMENT RENTAL	HOUR	5	
G-300a	CPM SCHEDULING	LUMP SUM	1	
P-157a	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1	
P-157c	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	1	
P-157e	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	1	
P-157f	WITHHOLDING	CONTINGENT SUM	1	
P-160a	EXCAVATION OF AC, RAP, OR PCC PAVEMENT	SQUARE YARD	50	
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	1	
P-610a	STRUCTURAL PORTLAND CEMENT CONCRETE	CUBIC YARD	4	
U-100a	WATER MAIN	LINEAR FOOT	145	
U-100b	GATE VALVE	EACH	3	
U-100e	FIRE HYDRANT ASSEMBLY	EACH	1	
U-100f	PIPE INSULATION	BOARD	15	
U-100g	CONNECT TO EXISTING 10-INCH HDPE	LUMP SUM	1	
U-200a	6-INCH PVC SEWER PIPE	LINEAR FOOT	200	
U-200b	1 1/4-INCH HDPE SEWER PIPE	LINEAR FOOT	260	
U-200c	SANITARY SEWER MANHOLE	EACH	2	
U-200e	SANITARY SEWER SERVICES & LATERALS	EACH	2	
U-200f	LOCATE SANITARY SEWER SERVICE	EACH	1	

	ADDITIVE ALTERNATE 3: AIRCRAFT WASHDOWN FACILITY				
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY		
D-701a	POLYETHYLENE CORRUGATED PIPE, 12-INCH	LINEAR FOOT	40		
D-751e	MANHOLE, TYPE III	EACH	1		
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1		
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	1		
G-135b	EXTRA SURVEY PARTY	HOUR	2		
G-150a	EQUIPMENT RENTAL	HOUR	2		
G-300a	CPM SCHEDULING	LUMP SUM	1		
P-152a	UNCLASSIFIED EXCAVATION	CUBIC YARD	100		
P-157a	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1		
P-157c	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	1		
P-157e	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	1		
P-157f	WITHHOLDING	CONTINGENT SUM	1		
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	1		
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	100		
P-610a	STRUCTURAL PORTLAND CEMENT CONCRETE	CUBIC YARD	50		
U-100c	1-INCH WATER SERVICE	EACH	1		
U-100d	FROSTPROOF YARD HYDRANT	EACH	1		
U-100f	PIPE INSULATION	BOARDS	3		
U-200b	1-1/4-INCH HDPE SEWER PIPE	LINEAR FOOT	20		
U-200d	SANITARY SEWER SUMP PUMP	EACH	1		
U-200e	SANITARY SEWER SERVICES & LATERALS	EACH	1		
U-500b	POWER UTILITY WORK	LUMP SUM	1		
U-500c	POWER SERVICE TRENCHING/CABLE/CONDUIT	LINEAR FOOT	250		

ESTIMATED QUANTITIES

TABLE OF ESTIMATING FACTORS				
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR		
P-154b	SUBBASE COURSE	145 LB/CF		
P-209b	CRUSHED AGGREGATE BASE COURSE	145 LB/CF		
P-401a	HOT MIX ASPHALT TYPE II, CLASS B	150 LB/CF		
P-401c	HOT MIX ASPHALT TYPE V, CLASS S	150 LB/CF		
P-401e	ASPHALT CEMENT, PG 58-28	5.5% BY WEIGHT OF P-401a		
P-401f	ASPHALT CEMENT, PG 64-22	5.5% BY WEIGHT OF P-401c		
P-603a	TACK COAT, PG 58-28	0.000334 TON/SY		

WH	7/23/18	1 ADDENDUM NO. 3	SCALE	
			HORZ.	SCALE
			VERT.	SEE GRAPHIC
			W.O. N	0. 1123.62033.02
BY	DATE	REVISIONS	FILE NO.	



PLAN PREPARED BY: DOWL

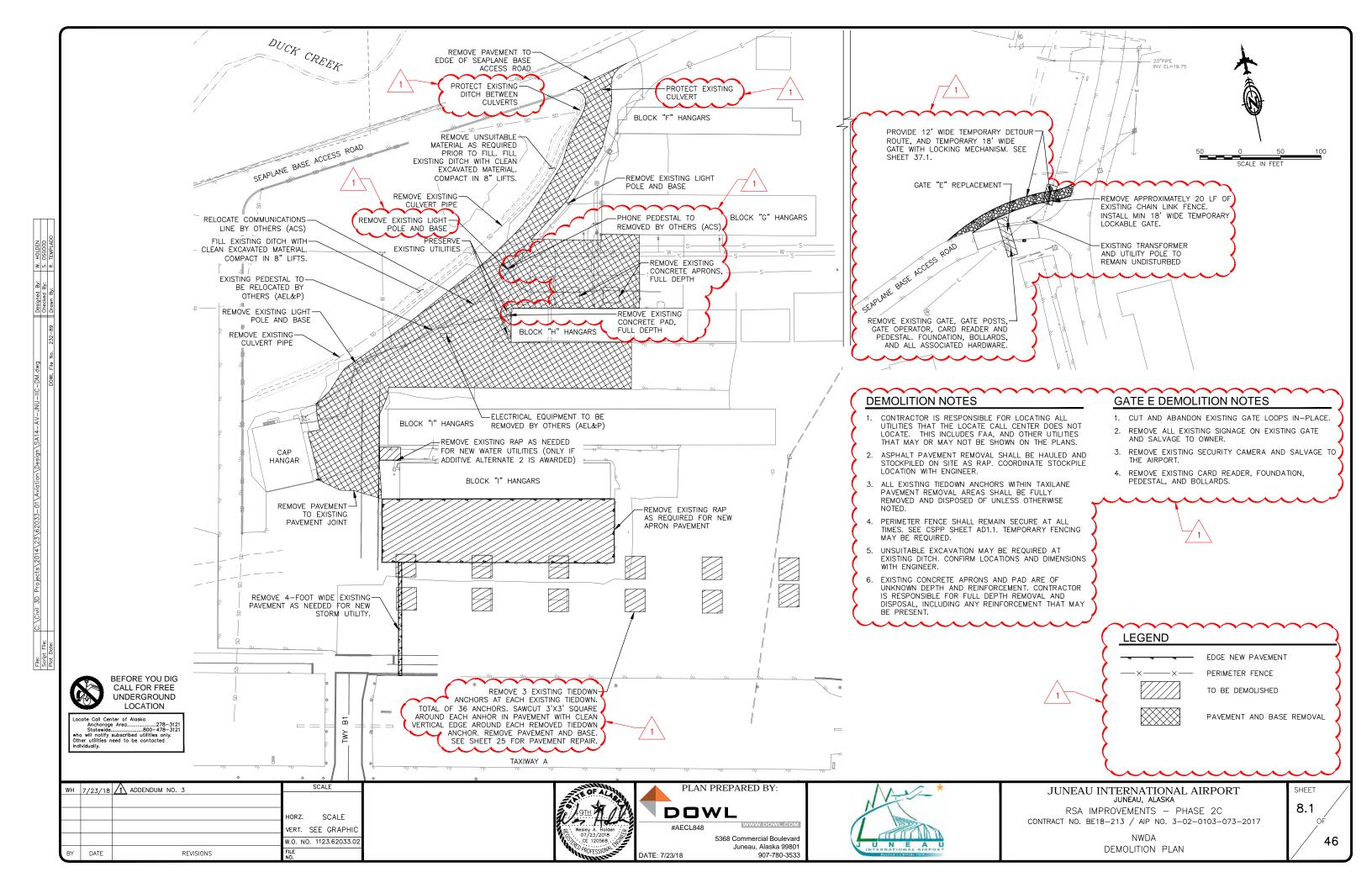
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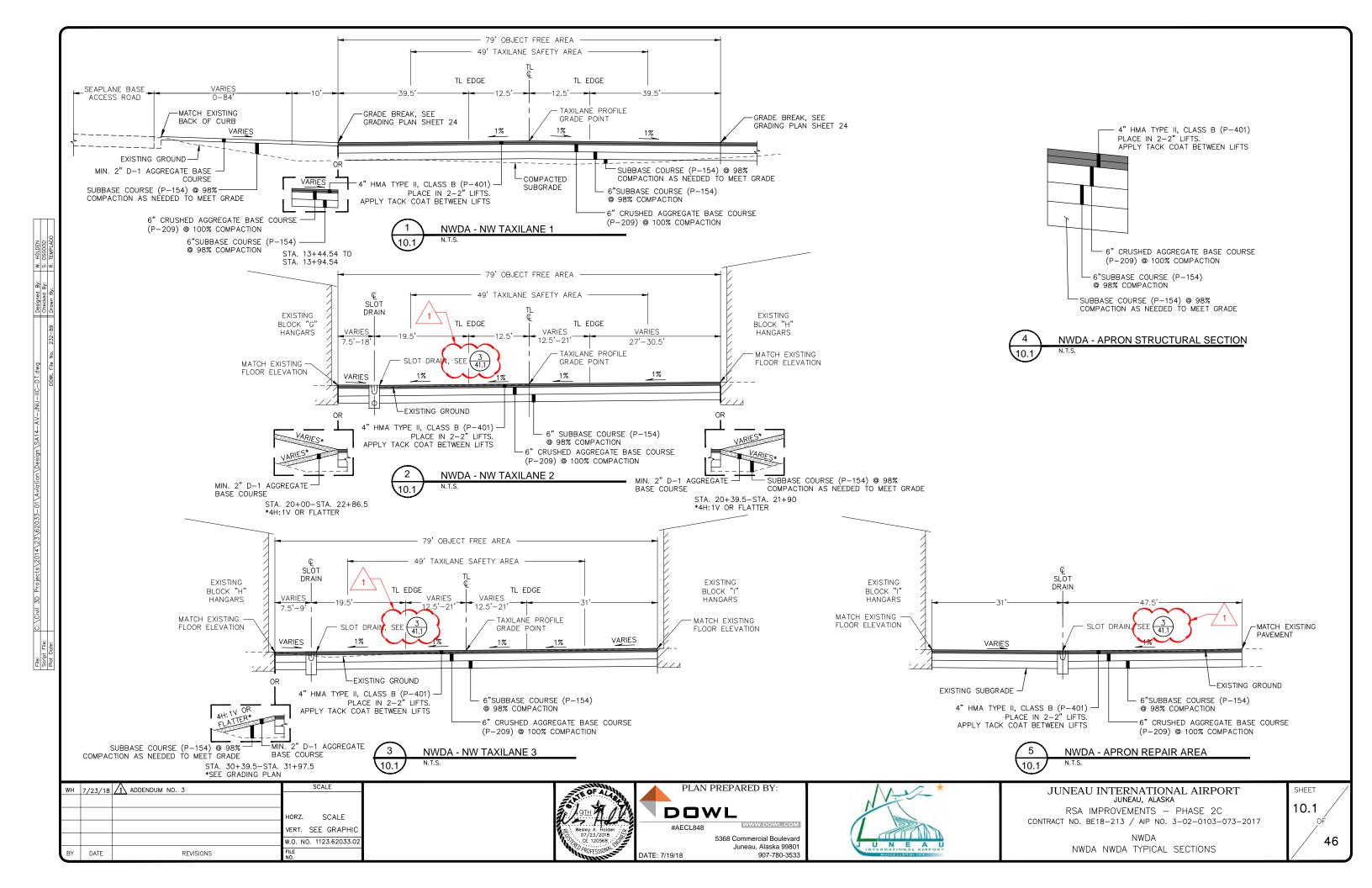


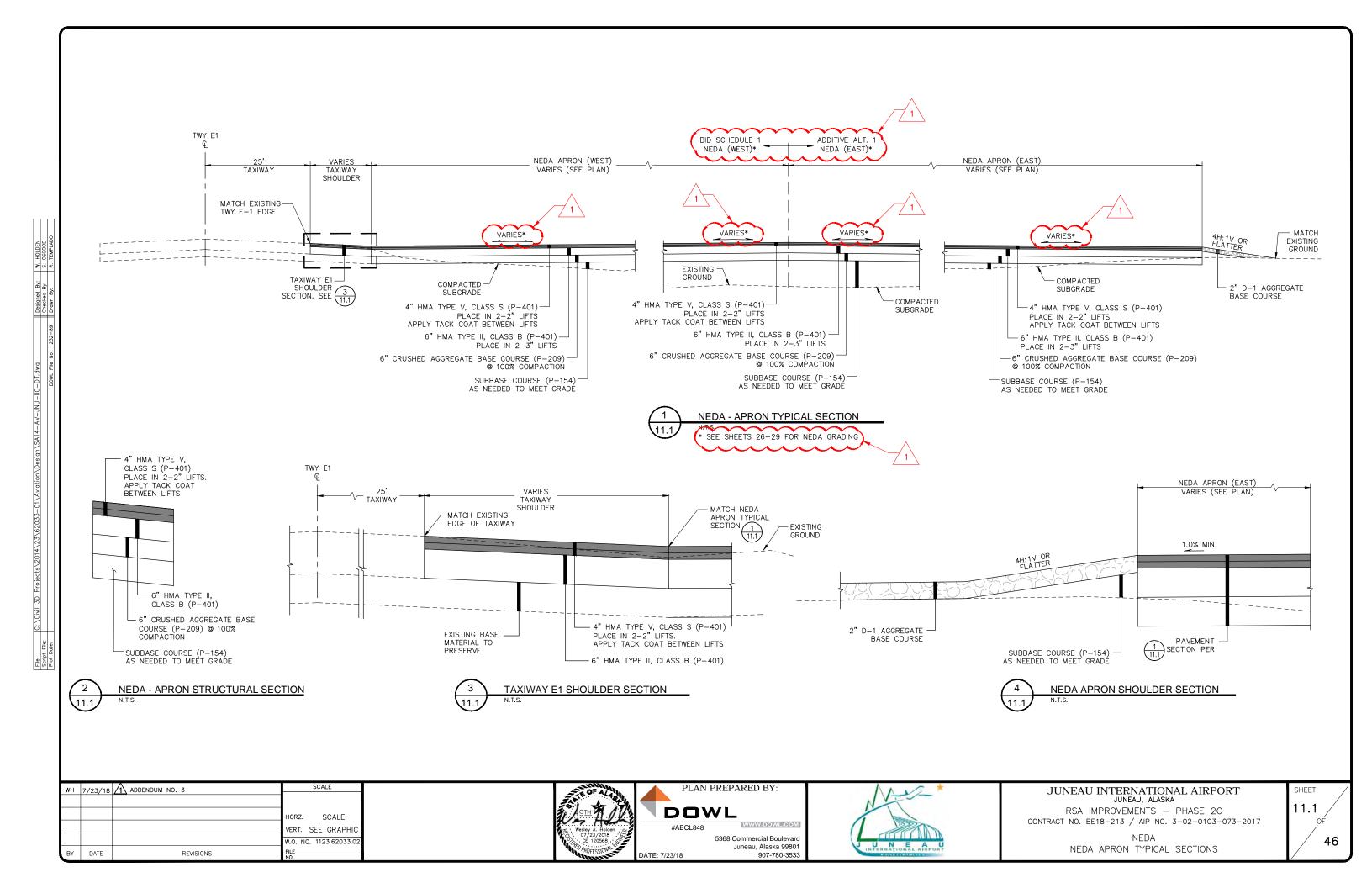
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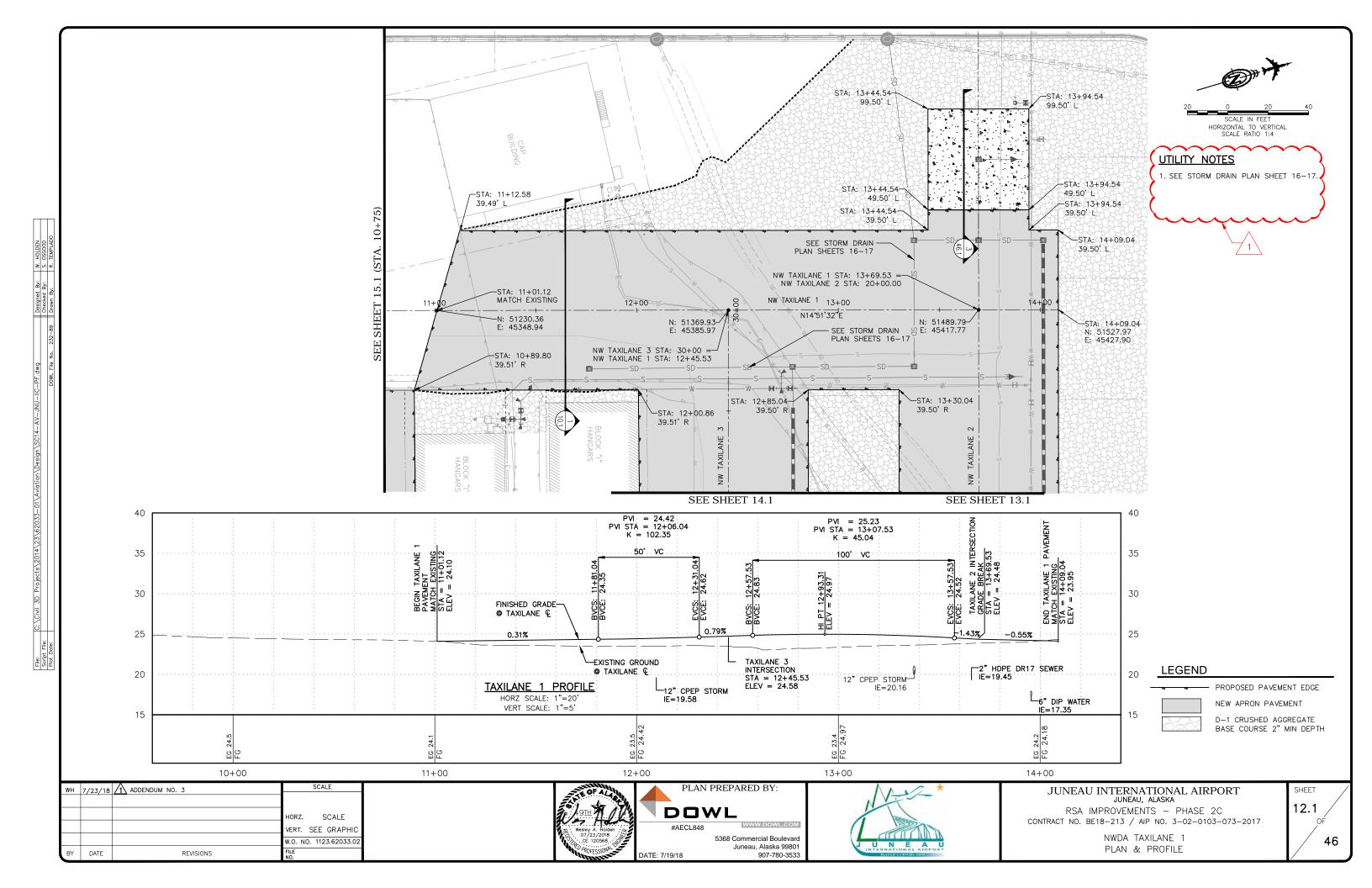
ESTIMATED QUANTITIES, FACTORS, & SUMMARY TABLES

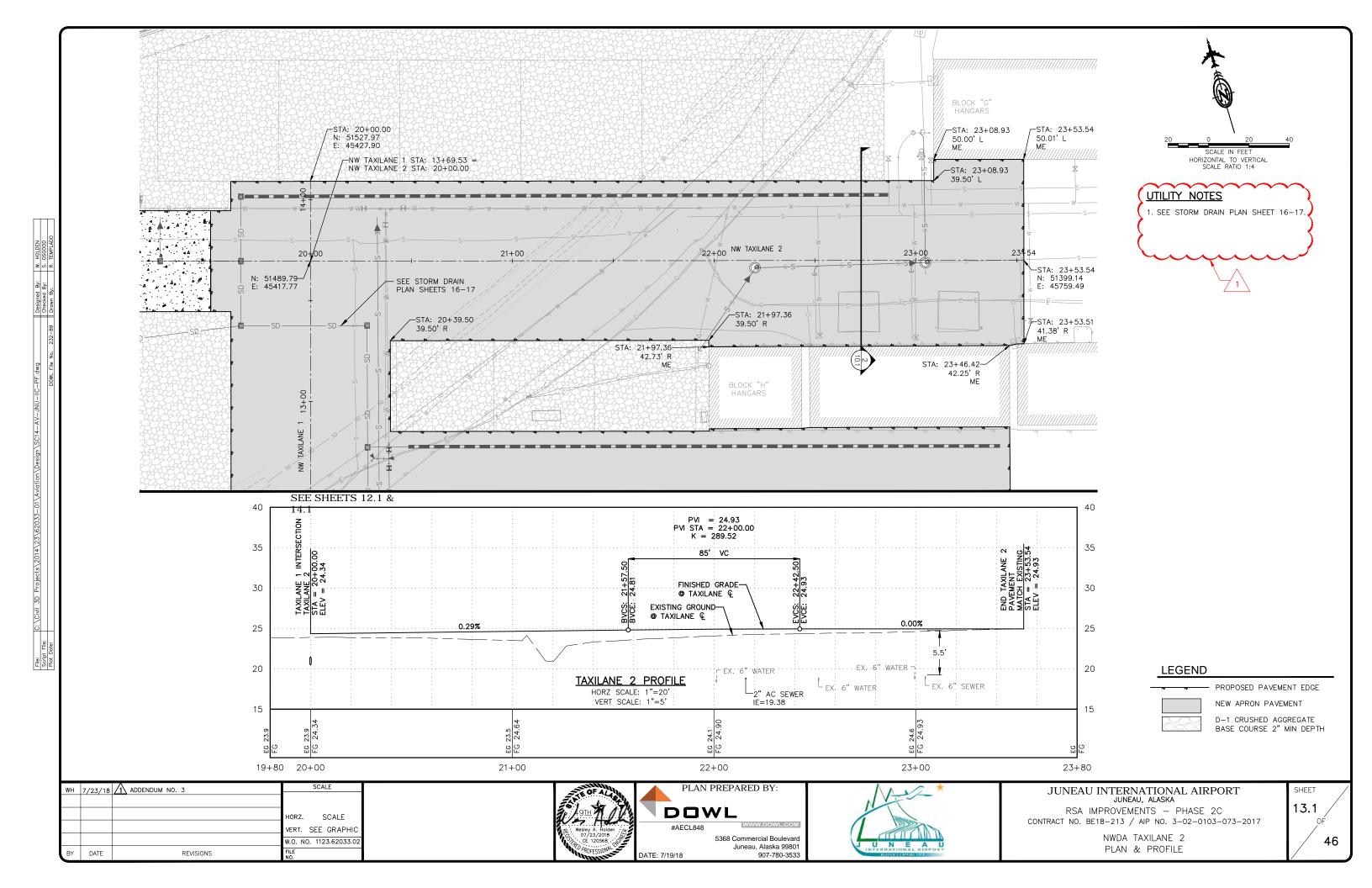
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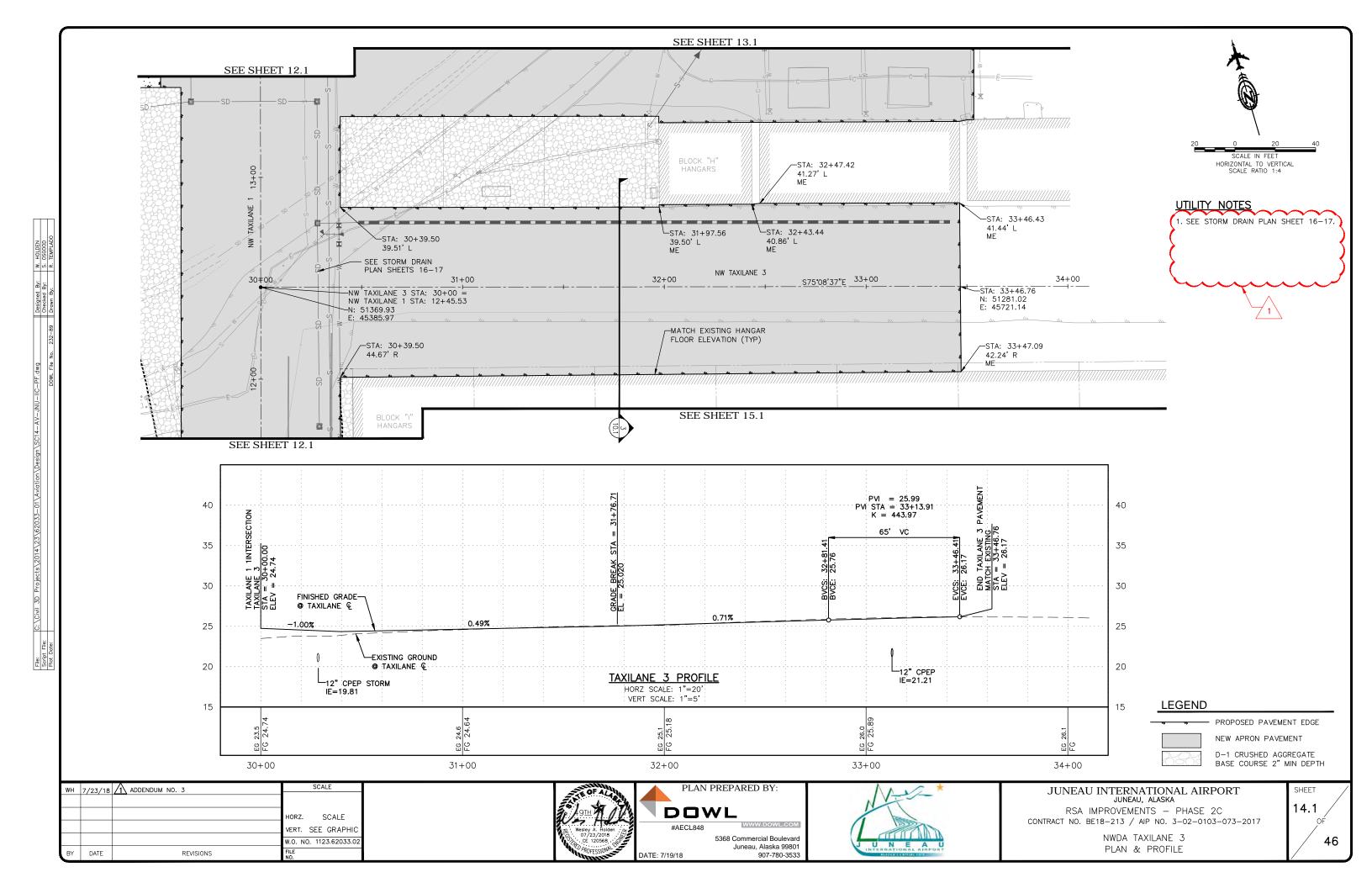


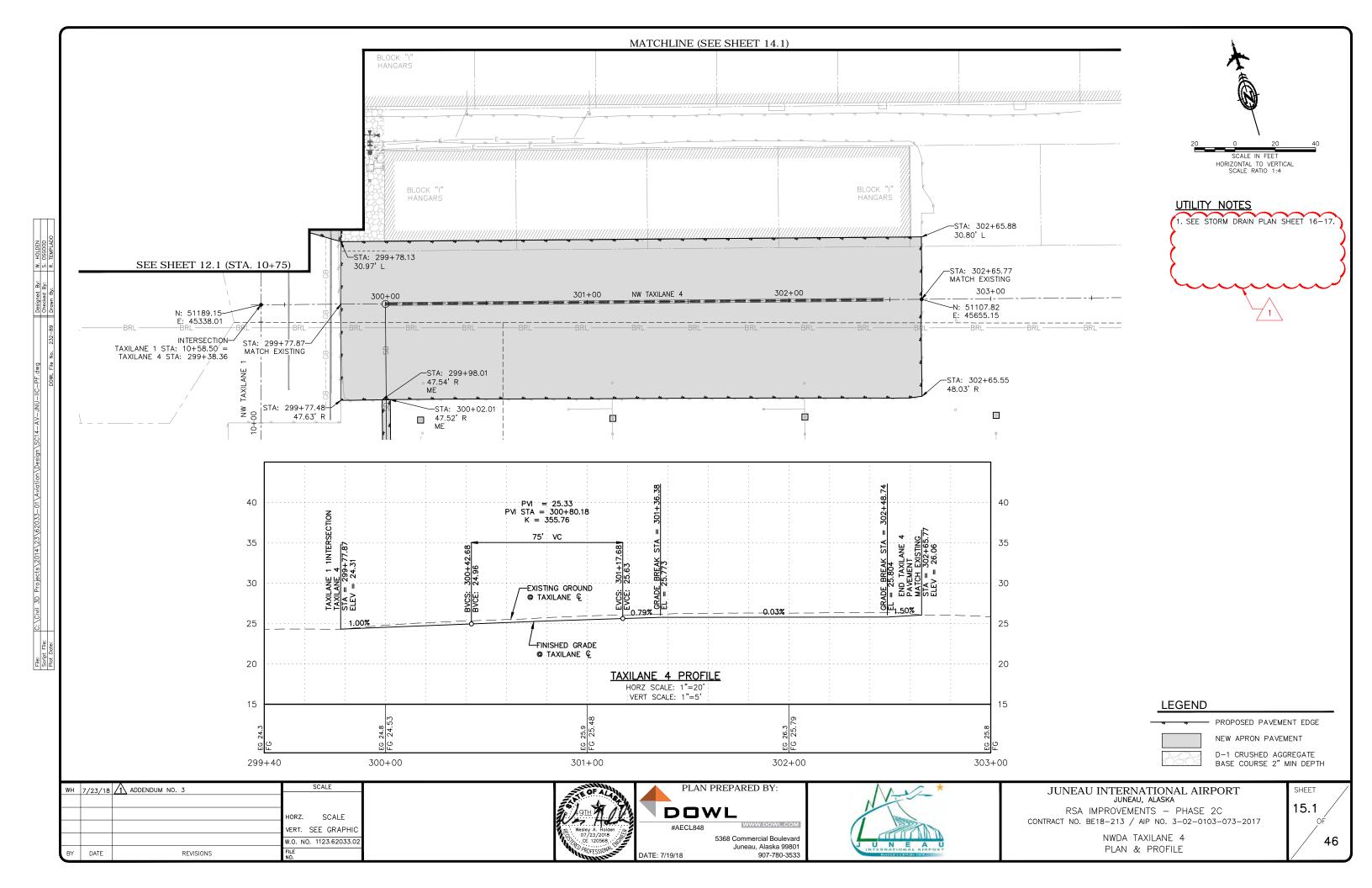


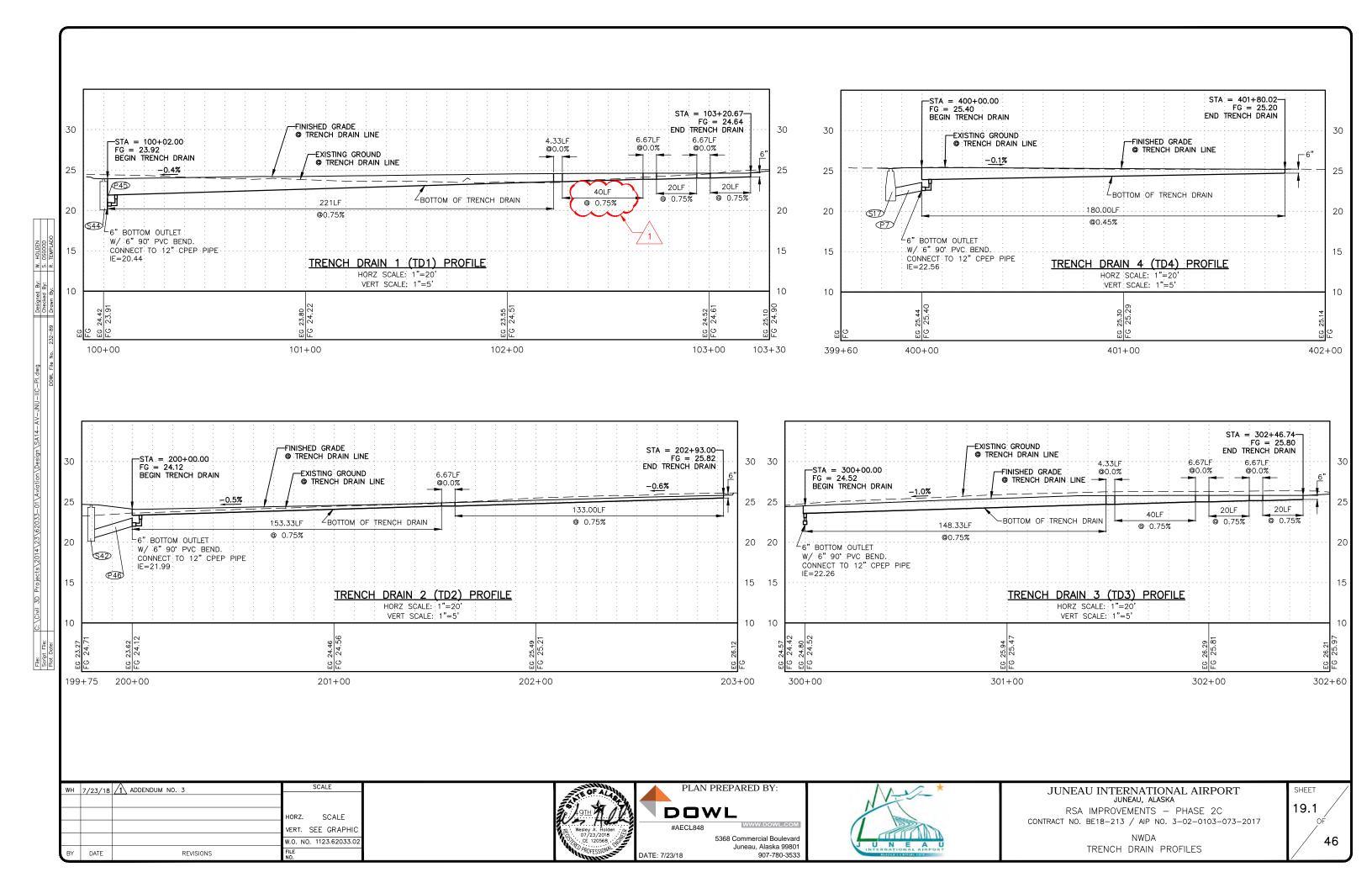


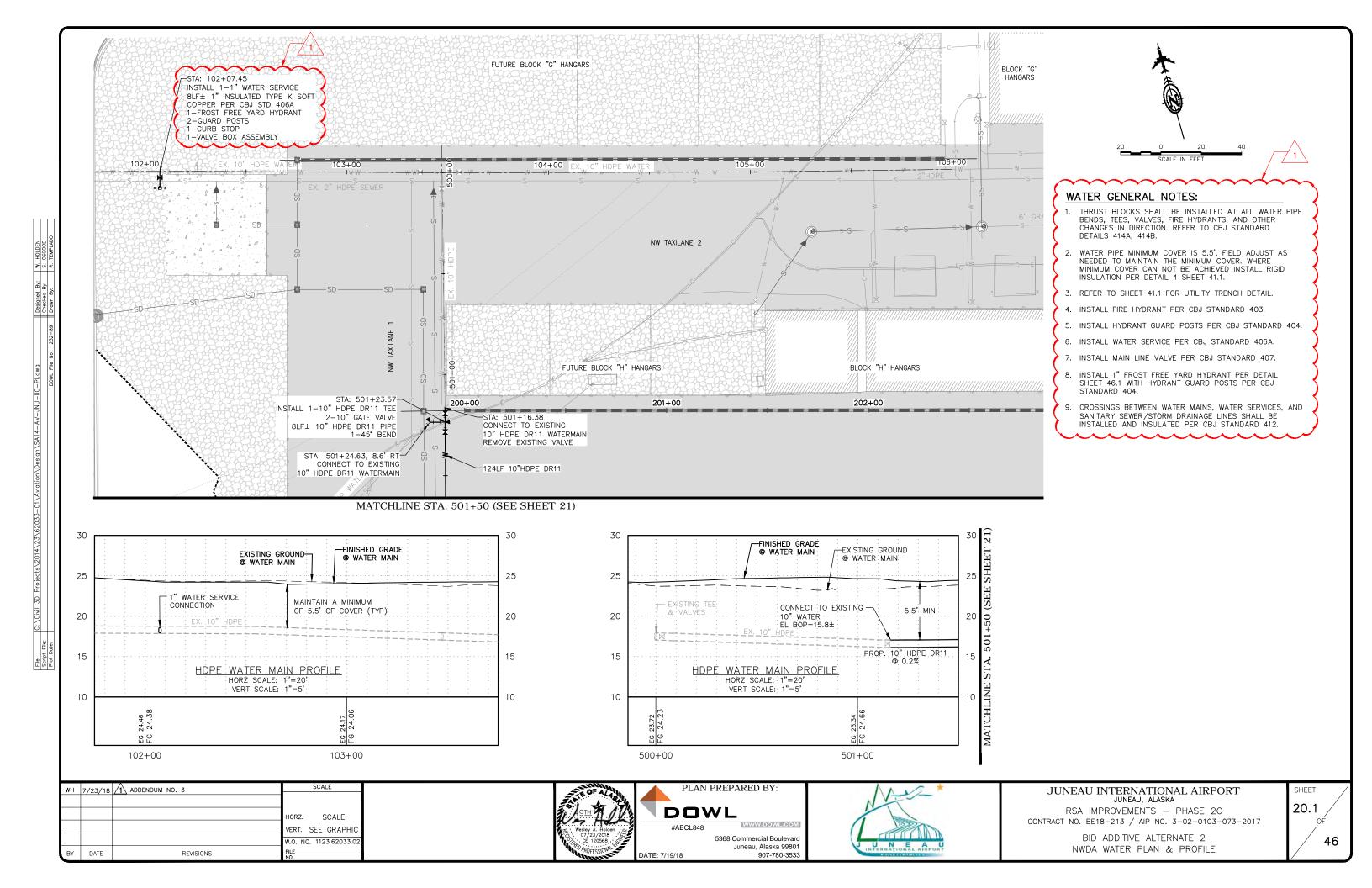


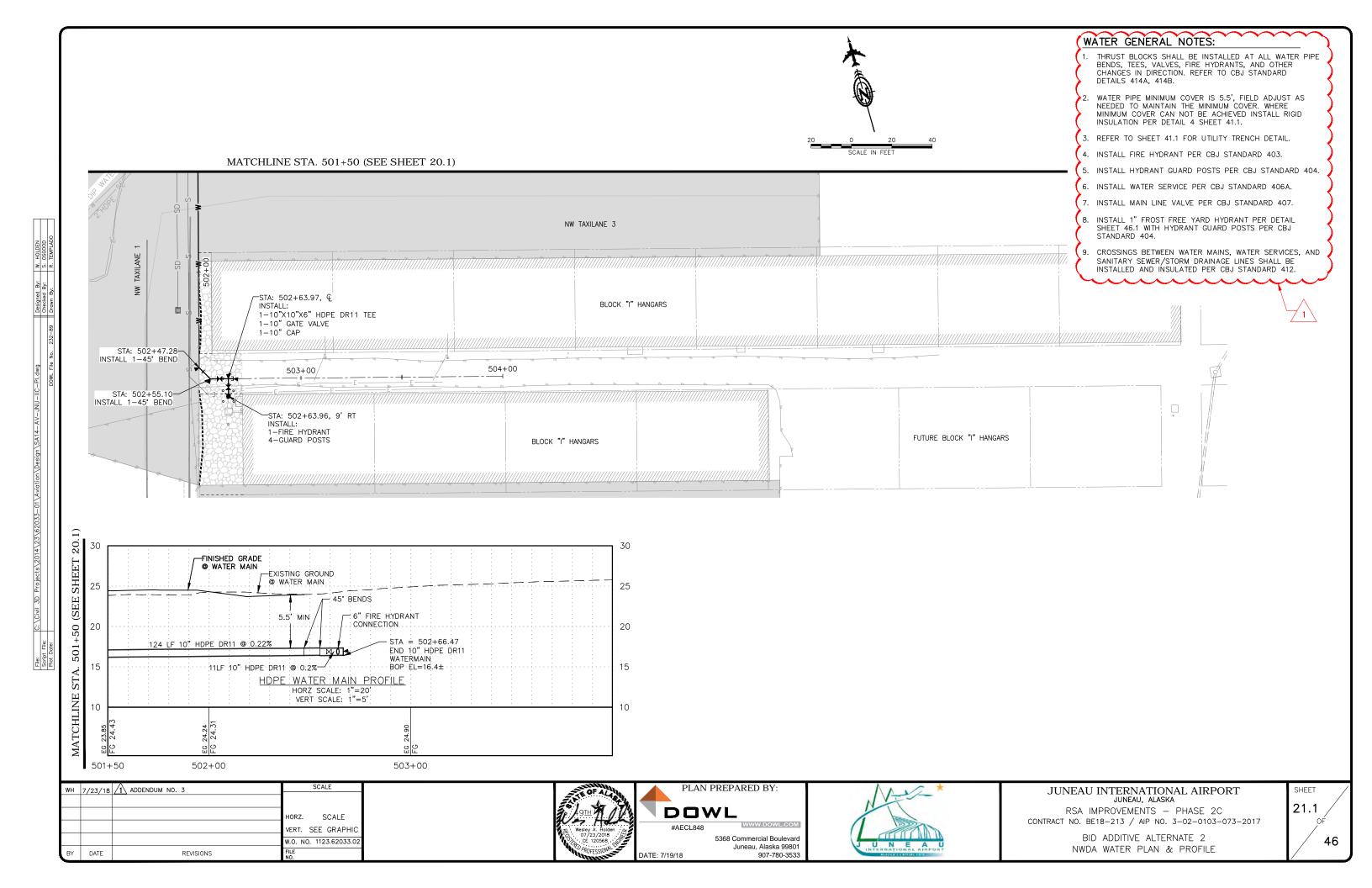


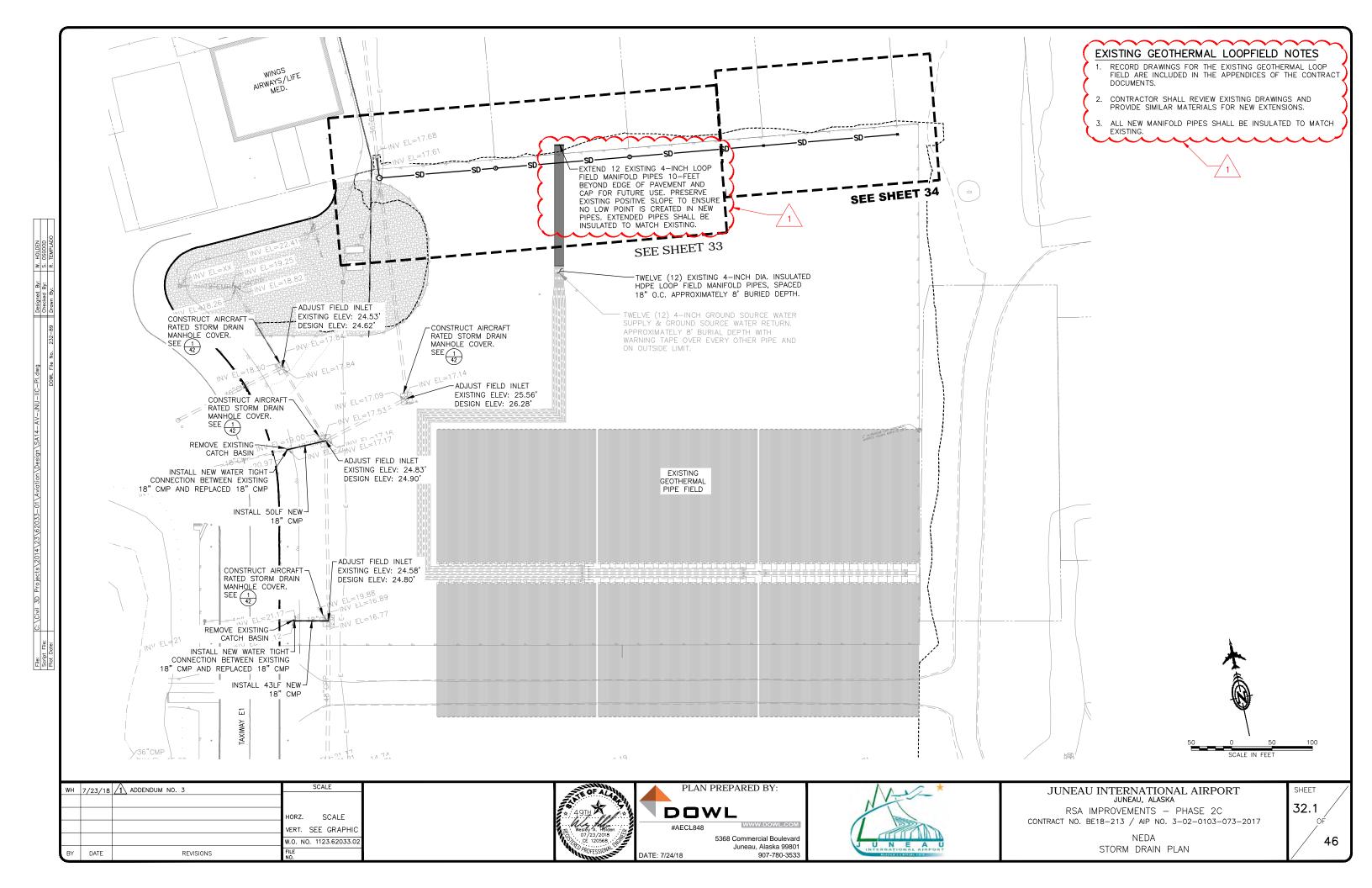












**GENERAL NOTES** 

1. SEE SHEET 8.1 FOR DEMOLITION WORK.

2. CONTRACTOR SHALL MAINTAIN A SECURE PERIMETER FENCE AT ALL TIMES. SEE SECTION 015200—SECURITY AND SAFETY, AND PHASING PLAN SHEET AD1.1.

3. GATE E REPLACEMENT WORK IS LIMITED TO NO MORE THAN SEVEN (7) CALENDAR DAYS FROM START TO FINISH, GATE E MUST BE FULLY INSTALLED, TESTED. AND OPERATIONAL AT THE END OF THE 7 DAY WORK PERIOD. COORDINATE GATE SHUTDOWN SCHEDULE WITH

- 1. MAINTAIN A SECURE PERIMETER FENCE AT ALL TIMES. TEMPORARY FENCE MAY BE USED TO SECURE FENCE
- 2. COORDINATE GATE SHUTDOWN SCHEDULE WITH PROJECT ENGINEER AND AIRPORT. MAXIMUM GATE DOWNTIME
- 3. NEW GATE LOOPS MAY BE INSTALLED IN EXISTING GATE LOOP LOCATIONS, OR CUT INTO EXISTING CONCRETE AT NEW LOCATIONS. SEAL PER MANUFACTURER'S
- 4. CONTRACTOR SHALL PROVIDE PUSH BUTTON ON NEW GATE OPERATOR THAT CAN BE PROGRAMMED FOR USE
- 5. INSTALL SALVAGED SIGNS FROM REMOVED GATE E ON NEW GATE. CONFIRM LAYOUT AND LOCATION OF EACH SIGN WITH ENGINEER. ATTACH USING STAINLESS STEEL

- 1. CLEAR GROUND FOR DETOUR OF ALL EXISTING VEGETATION. CONFIRM DETOUR LAYOUT WITH ENGINEER
- 2. PLACE LAYER OF FILTER FABRIC OVER CLEARED AREA.
- 3. PLACE AND COMPACT 6" OF D-1 AGGREGATE OVER FILTER FABRIC. MATCH ELEVATION OF EXISTING ROAD AT EACH END OF TEMPORARY DETOUR ROAD.
- NON-SECURED (PUBLIC) SIDE OF FENCE, AND RE-GRADE AND SEED TO PRE-CONSTRUCTION

20	0	20	40
	SCALE	IN FEET	

WH	7/23/18	1 ADDENDUM NO. 3		SCALE
			HORZ.	SCALE
			VERT.	SEE GRAPHIC
			W.O. N	0. 1123.62033.02
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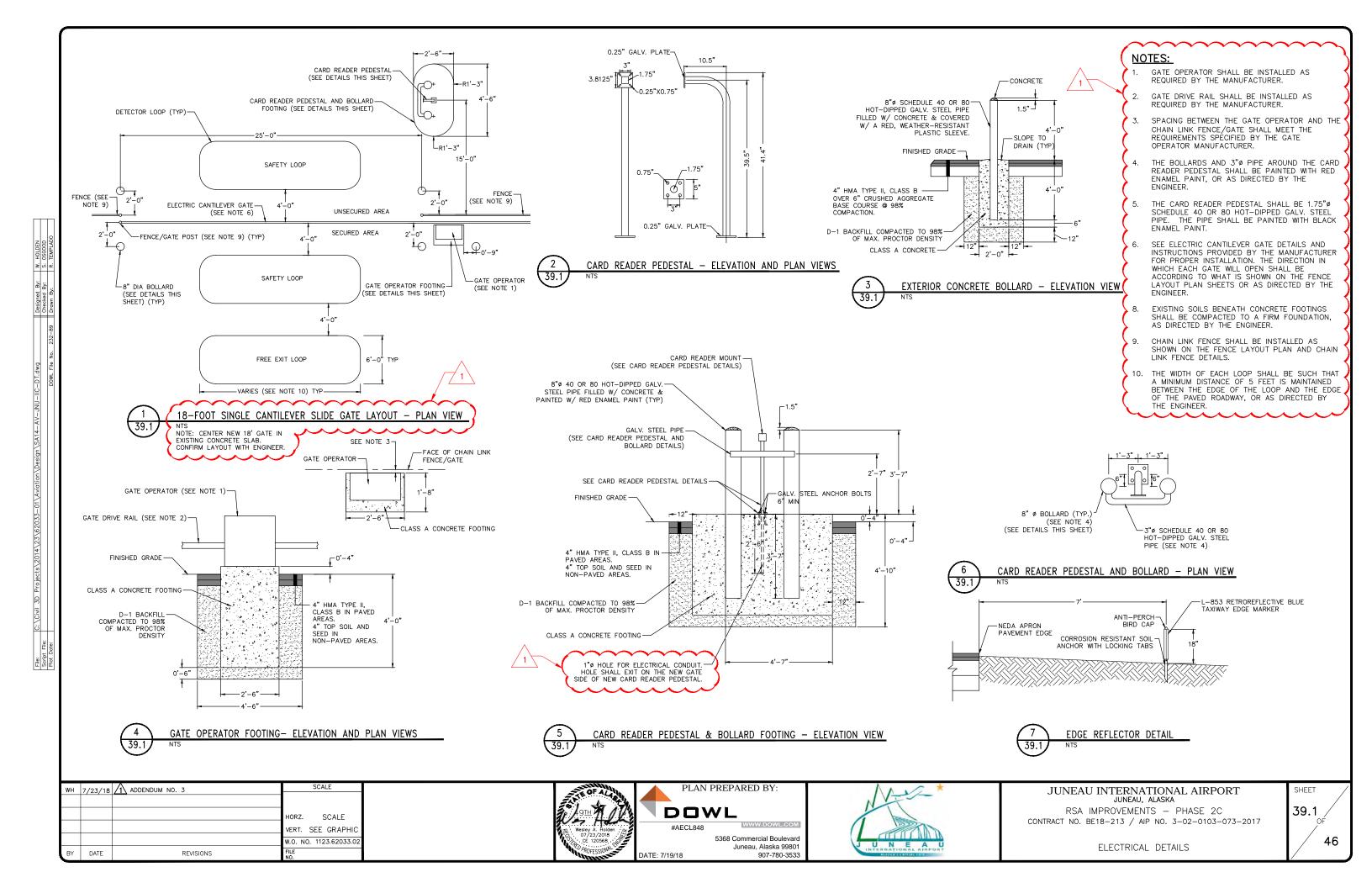


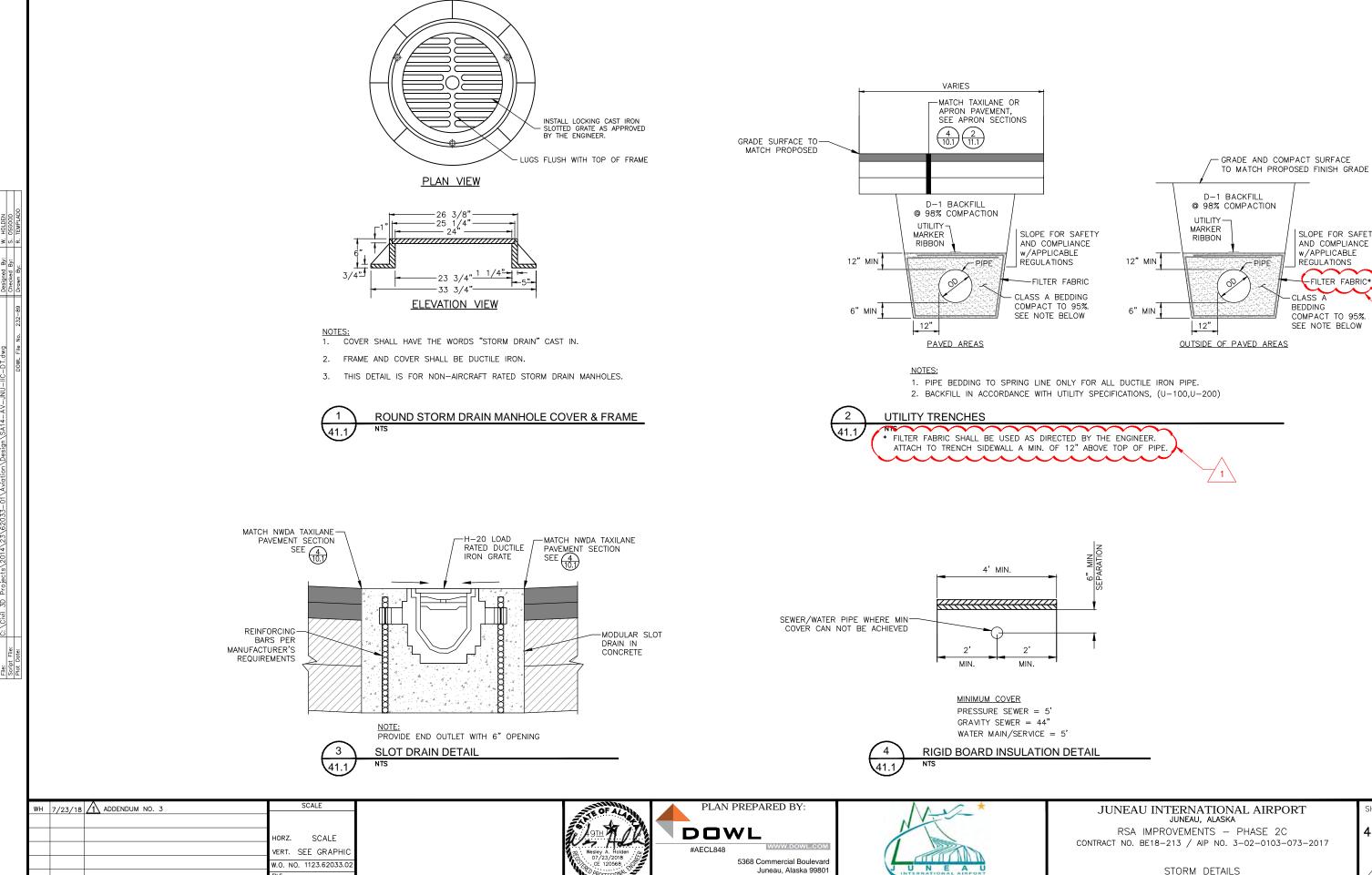


RSA IMPROVEMENTS - PHASE 2C CONTRACT NO. BE18-213 / AIP NO. 3-02-0103-073-2017

NWDA FENCING PLAN

37.1





DATE: 7/19/18

907-780-3533

DATE

REVISIONS

41.1

SLOPE FOR SAFETY

AND COMPLIANCE

w/APPLICABLE

COMPACT TO 95%.

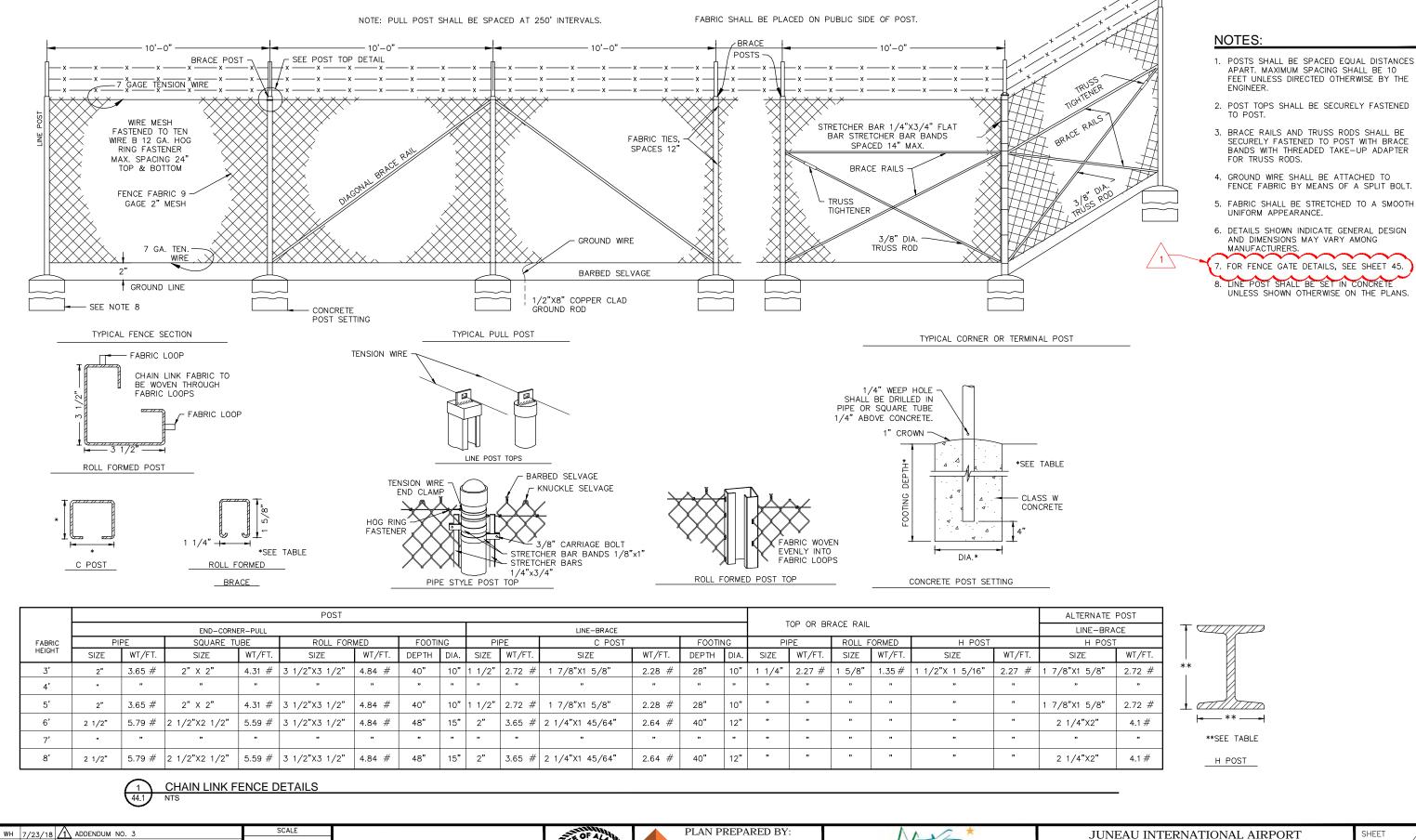
SEE NOTE BELOW

REGULATIONS -FILTER FABRIC\*

CLASS A

BEDDING

STORM DETAILS



DOWL

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HORZ.

DATE

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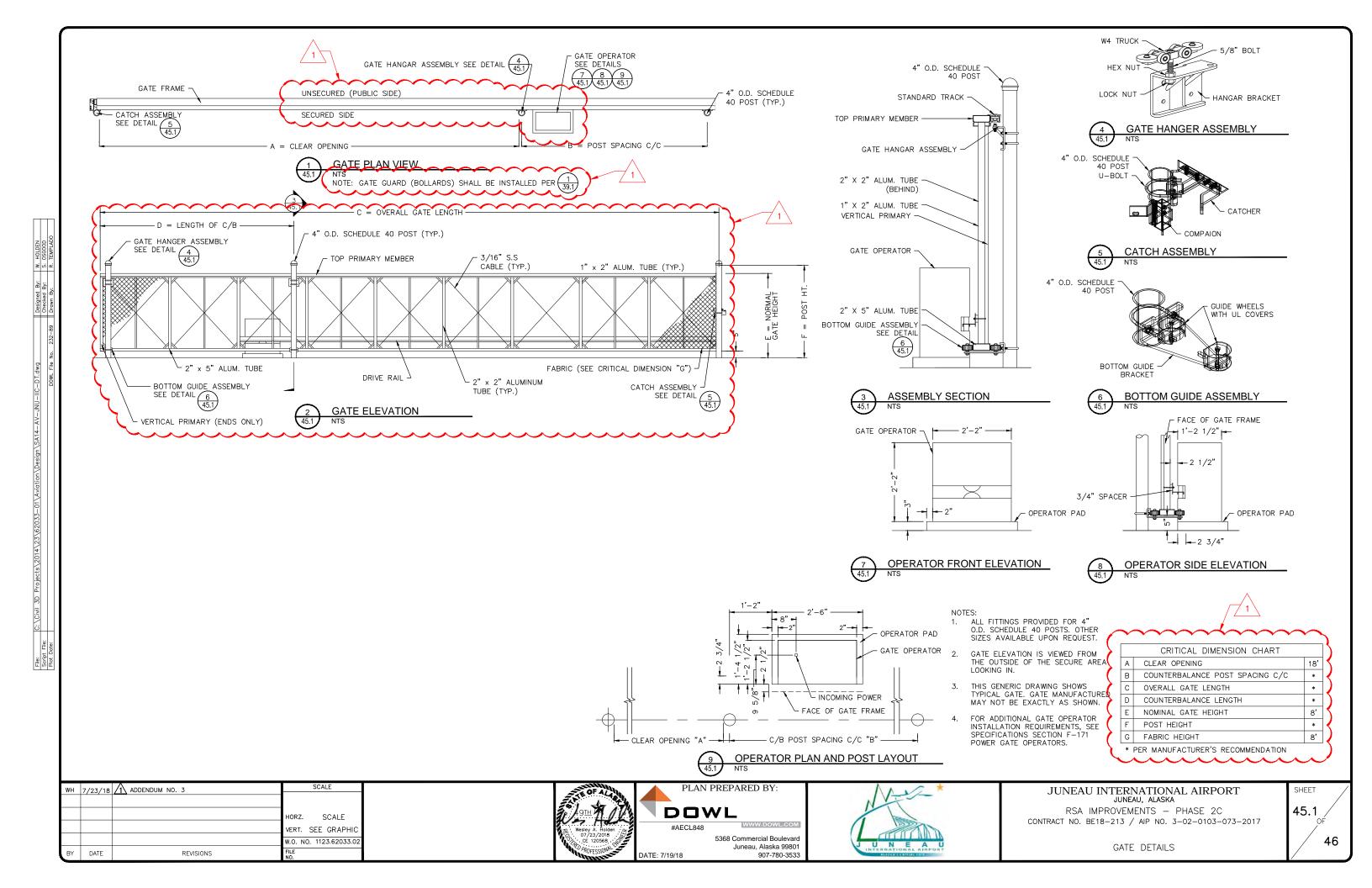
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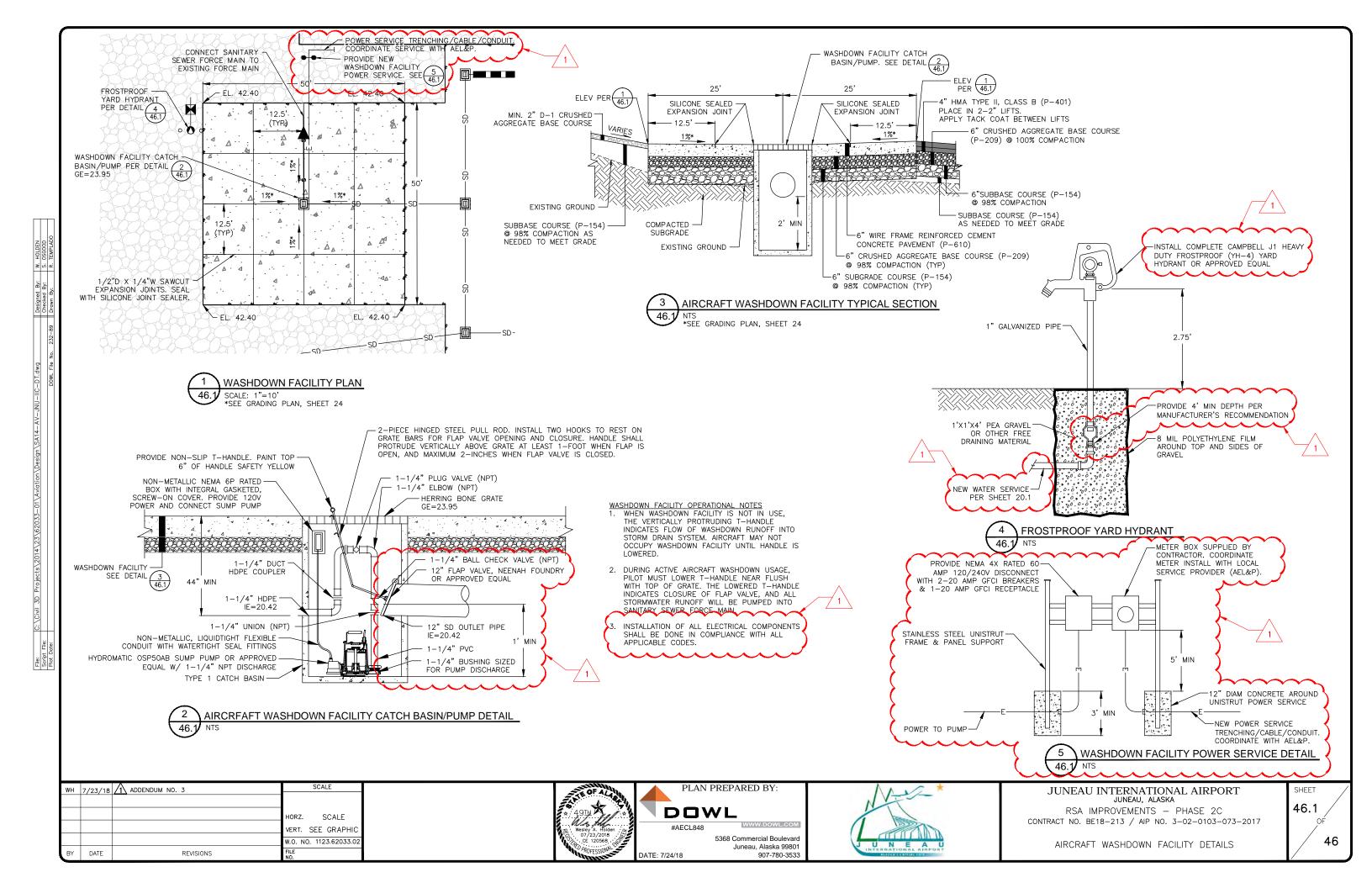
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W.O. NO. 1123.62033.0

JUNEAU, ALASKA RSA IMPROVEMENTS - PHASE 2C 44.1 CONTRACT NO. BE18-213 / AIP NO. 3-02-0103-073-2017

FENCE DETAILS





DATE REVISIONS



JUNEAU INTERNATIONAL AIRPORT

RSA IMPROVEMENTS - PHASE 2C CONTRACT NO. BE18-213 / AIP NO. 3-02-0103-073-2017

> CONSTRUCTION SAFETY PHASING PLAN NWDA CONSTRUCTION PHASING

AD1.1,

MAINTAIN SECURE

PERIMETER FENCE AT ALL TIMES.

AD3