



LAND OCCUPANCY

BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
500A	1G	07789	135,738	ALASKA PRIDE AIR, LLC	07/01/2000	06/30/2025
	1H	08685	9,235	US FISH & WILDLIFE SVC.		
	3B	07779	50,250	LESTER AND JILL BINGMAN	09/01/2000	08/31/2025
	4B	02601R	49,500	PENINSULA AIRWAYS, INC.	06/01/1977	05/31/2012
	5C	08181	33,500	PENINSULA AIRWAYS, INC	07/01/2004	06/30/2014
	6C	03818	67,000	STARFLITE, INC	08/01/1979	07/31/2014
	7B	02940	75,050	GRANT AVIATION, INC.	06/10/1976	07/01/2014
600	1C	07900	67,550	AIRCRAFT CONSULTANTS & SERVICES INC. dba ALASKA CARGO SERVICES	10/01/2001	09/30/2016
800	1	08561	19,800	ALASKA ISLAND AIR, INC.	01/02/2008	01/01/2013
	2	07196	19,800	BRISTOL BAY AIR SERVICE, INC.	10/27/1995	10/26/2015
	3	06825	19,800	US FISH & WILDLIFE SVC.	10/05/1992	10/05/2027
	4	06765	19,800	TUCKER AVIATION, INC.	10/15/1992	10/15/2017
900	A	07809	4,500	CITY OF DILLINGHAM – FIRE STATION	12/01/2000	11/30/2015

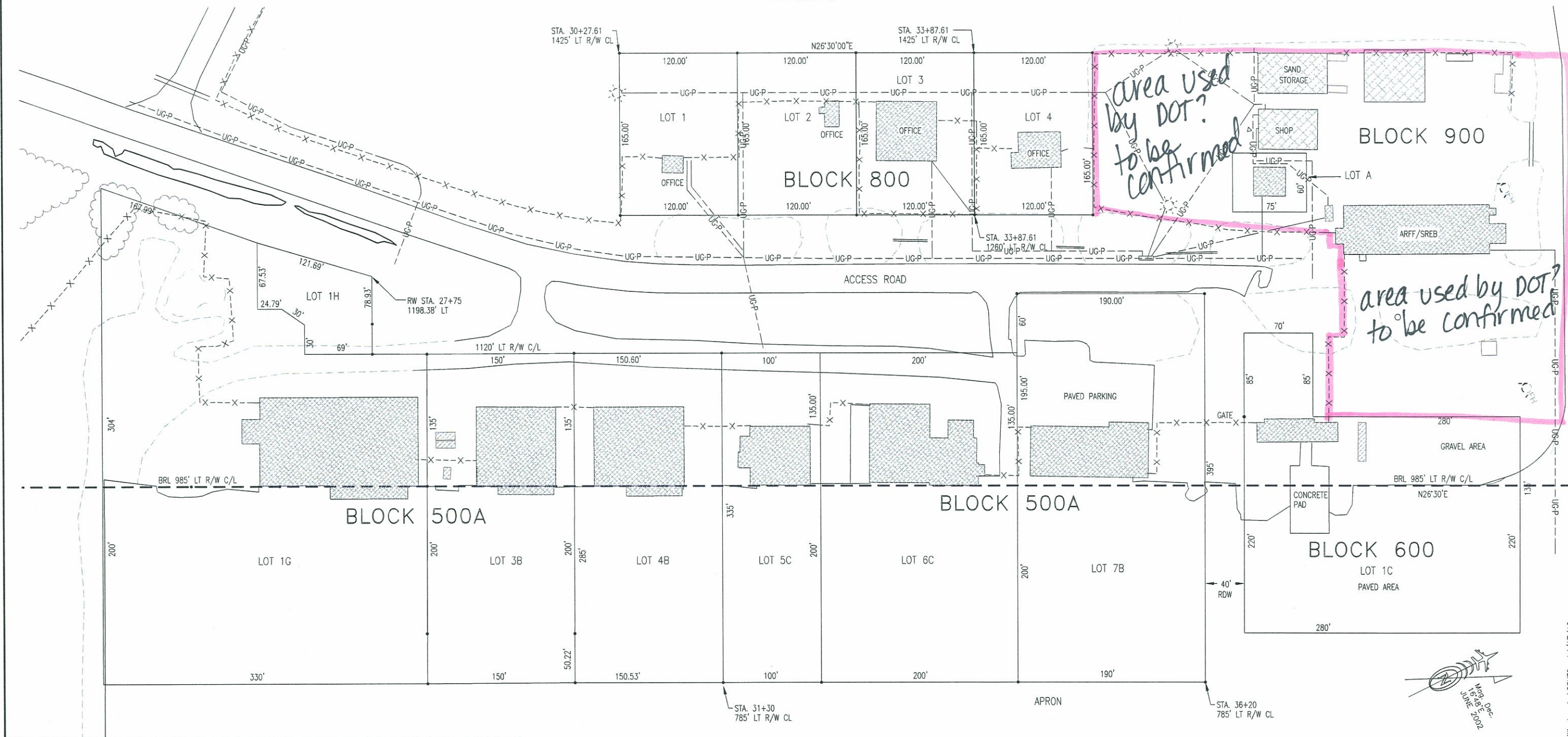
THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE ONLY; LOCATIONS HAVE NOT BEEN FIELD VERIFIED. ADDITIONAL UTILITIES THAT ARE NOT SHOWN ON THIS LO MAY ALSO EXIST.



BY	DATE	CHANGE
REVISIONS		

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION LEASING			
DILLINGHAM AIRPORT LAND OCCUPANCY			
APPROVED			
Robert L. Norton, Jr. CHIEF, AVIATION LEASING		DATE:	
SCALE 1"=50'		DWN DATE 3/9/12	CP SHEET 2 OF 4

SEE SHEET 3



LAND OCCUPANCY

BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
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BY	DATE	CHANGE
REVISIONS		

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION LEASING		
DILLINGHAM AIRPORT LAND OCCUPANCY		
APPROVED		
Robert L. Norton, Jr. CHIEF, AVIATION LEASING		
DATE: _____		
SCALE 1"=50'	DWN CP DATE 3/9/12	SHEET 2 of 4

V:\Av\A_LO\Dillingham\ldillingham1-LOSHIT2 Jul/17/12

NOTES

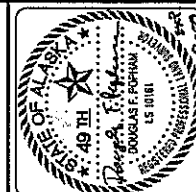
5. For this survey, the monument at Runway Station 35+03.93, 1427.16 feet Offset Left, was held as the Basis of Stationing. The monument was described in the Dillingham Airport ARFF Building 51347 A.I.P. No. 3-02-0078-07, Project Layout Plan, Sheet C2-R of 5.

R/W STA 35+03.93, 1427.16 LEFT (feet)
(STA 1+068, 435 LEFT (meters))
ELEV=85.00' (25.909m)

NOTES

6. The monument at Runway Station 40+25.18, 1427.16 feet Offset Left is based on the measured distance from the Basis of Stationing.

R/W STA 40+25.18, 1427.16 LEFT (feet)
(STA 1+228, 435 LEFT (meters))
ELEV=78.18' (23.83m)



DATE	BY	REVISIONS
10/07	Adelstein	1/12

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
MCCINTOCK LAND ASSOCIATES, INC.

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
SITE PLAN SURVEY
FOR DILLINGHAM
CHEMICAL STORAGE
BUILDING

DESIGN	DP
DRAWN	MS
CHECKED	DP
DATE	JUNE 25, 2009
STATE PROJECT No.	50928
SHEET NUMBER	C1.1

LEGEND

—x—x—x— Chainlink Fence	48" Diameter CMP Drain
—e—e—e— Underground Electric Line	Electric Junction Box
—f—f—f— Underground Fuel Line	Electric Pedestal
—s—s—s— Underground Sewer Line	Luminaire
—t—t—t— Underground Telephone Line	Telephone Pedestal
—w—w—w— Underground Water Line	Water Well
● Found Aluminum Cap on Rebar	XX XX XX Measured Data
● Set 2" Aluminum Cap on 5/8"x30" Painted Rebar	XX XX XX (R) Record Data per Dillingham Airport Project Layout Plan (A.I.P. No. 3-02-0078-07), Dated April 26, 1995
■ Bollard	CP-1 Control Point
○ ^{CO} Clean-Out	

SURVEYOR CERTIFICATE

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

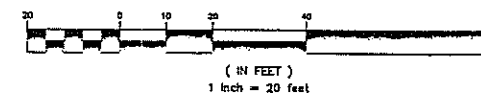
June 24, 2007 LS 10161
Date Registration Number

Douglas F. Popham
DOUGLAS F. POPHAM Registered Land Surveyor

NOTES

- The vertical control for this site plan survey is based upon the airport runway monument located at Runway Station 40+25.18 feet (1+228 meters), 1427.16 feet (435 meters) Offset Left. The elevation of this monument is 78.18 feet (23.83 meters). This information is from the Dillingham Airport ARFF Building 51347 A.I.P. No. 3-02-0078-07, Project Layout Plan, Sheet C2-R of 5.
- This survey was performed by McIntock Land Associates on August 4-5, 2008, using TOPCON HiPer+ GPS receivers.
- The location of the underground utilities as shown is based on field locates provided by the State of Alaska Department of Transportation and Public Facilities unless otherwise noted.
- There may be additional underground utilities on the site for which locates were not provided or that do not show up on as-built drawings. It is the responsibility of the owner to verify the location of underground utilities prior to excavation.

GRAPHIC SCALE



SEWER
LIFT
STATION

NOTES

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LEGEND

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—e—e—e—	Underground Electric Line	Electric Junction Box
—f—f—f—	Underground Fuel Line	Electric Pedestal
—s—s—s—	Underground Sewer Line	Luminaire
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—w—w—w—	Underground Water Line	Water Well
●	Found Aluminum Cap on Rebar	Measured Data
●	Set 2" Aluminum Cap on 5/8"x30" Pointed Rebar	Record Data per Dillingham Airport Project Layout Plan (A.I.P. No. 3-02-0078-07), Dated April 26, 1995
■	Boilard	CP-1
○	Clean-Out	Control Point

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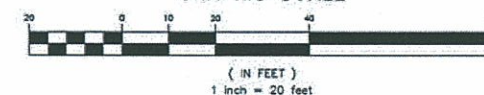
Date _____ Registration Number _____

DOUGLAS F. POPHAM Registered Land Surveyor

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GRAPHIC SCALE



RECORD DRAWING

DATE: 10/30/2012 BY: RJP

P:\2008\F09013\4\0013-0001-Layout1 Nov 26, 2012 11:53 AM

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
MCCLINTOCK LAND ASSOCIATES, INC.

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
SITE PLAN SURVEY
FOR DILLINGHAM
CHEMICAL STORAGE
BUILDING

DESIGN _____ CP
DRAWN _____ MG
CHECKED _____ CP
DATE _____ JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

C1.1

CONSTRUCTION PLANS FOR

DILLINGHAM AIRPORT CHEMICAL STORAGE BUILDING

AIRPORT IMPROVEMENT PROGRAM
A.I.P. NO. 3-02-0078-011-2009

STATE PROJECT NO. 50928

SPONSORED BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION – DIVISION of DESIGN and CONSTRUCTION

APPROVED: _____ DATE _____
K. KIM RICE, P.E., REGIONAL PRECONSTRUCTION ENGINEER

CONCUR: _____ DATE _____
ROBERT A. CAMPBELL, P.E., DIRECTOR OF DESIGN AND CONSTRUCTION

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C2.0 – SITE PLAN
C3.0 – SITE SECTIONS
C3.1 – DETAILS
C3.2 – DETAILS

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GA2.1 – EXTERIOR BUILDING ELEVATIONS
GA3.1 – BUILDING SECTIONS
GA4.1 – DETAILS
GA5.1 – MIX TANK DETAILS AND BULK BAG UNLOADING SYSTEM

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S1.2 – TYPICAL DETAILS
S2.1 – FOUNDATION PLAN AND SCHEDULES
S3.1 – CONCRETE DETAILS
S3.2 – CONCRETE DETAILS
S4.1 – MEZZANINE FRAMING PLAN ELEVATIONS AND DETAILS

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E1.2 – ELECTRICAL SITE DETAILS
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E4.1 – ONE-LINE DIAGRAM
E5.1 – ELECTRICAL PANEL SCHEDULES
E5.2 – ELECTRICAL PANEL SCHEDULES
E5.3 – ELECTRICAL PANEL SCHEDULES

RECORD INFORMATION WAS FURNISHED
BY THE CONSTRUCTION CONTRACTOR AND
TRANSFERRED TO DRAWINGS BY PDC, INC.

PDC, INC. WAS NOT RETAINED TO FIELD
VERIFY RECORD CONDITIONS.

RECORD DRAWING LEGEND:

 RECORD DELETION/RELOCATION

 RECORD ADDITION/CORRECTION

 **EXAMPLE** RECORD TEXT EXPUNGEMENT

RECORD DRAWING

DATE: 10/30/2012

BY: DJM

CODE INFORMATION

- INTERNATIONAL BUILDING CODE, 2006 EDITION
OCCUPANCY TYPE: S1
CONSTRUCTION TYPE: V-B
- INTERNATIONAL MECHANICAL CODE, 2006 EDITION
- NATIONAL ELECTRICAL CODE, 2008 EDITION
- INTERNATIONAL FIRE CODE, 2006 EDITION
- NFPA – 30, 31, 101
- UNIFORM PLUMBING CODE, 2006 EDITION

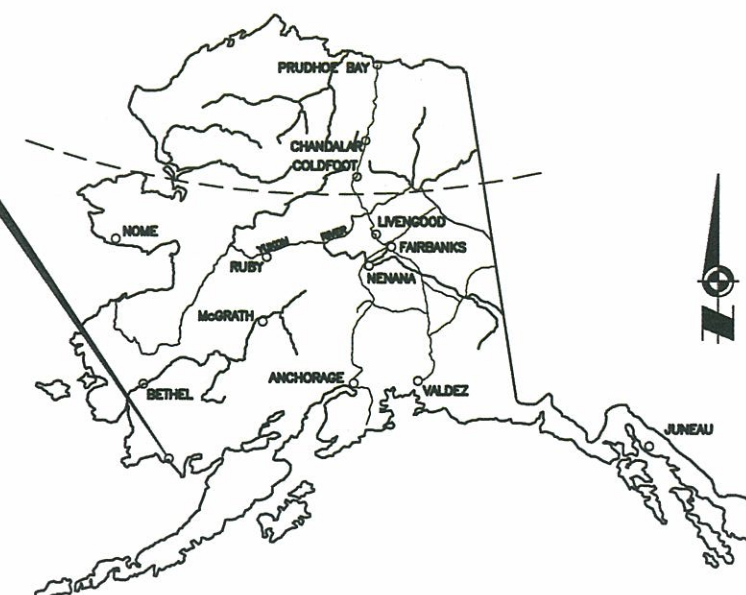
THIS PROJECT
DILLINGHAM, ALASKA

Prime Consultant
Civil, Mechanical, Structural, Electrical
PDC, Inc.
1028 Aurora Dr. Fairbanks AK 99709 (907) 452-1414

Surveying
McCLINTOCK LAND ASSOCIATES, Inc.
11940 Business Blvd, Suite 205
Eagle River, Alaska 99577

Cost Estimators
HMS
4103 Minnesota Dr Anchorage, Alaska 99503

Geotechnical
DUANE MILLER & ASSOCIATES
1041 E. 76th Ave Anchorage, Alaska 99503



LOCATION MAP

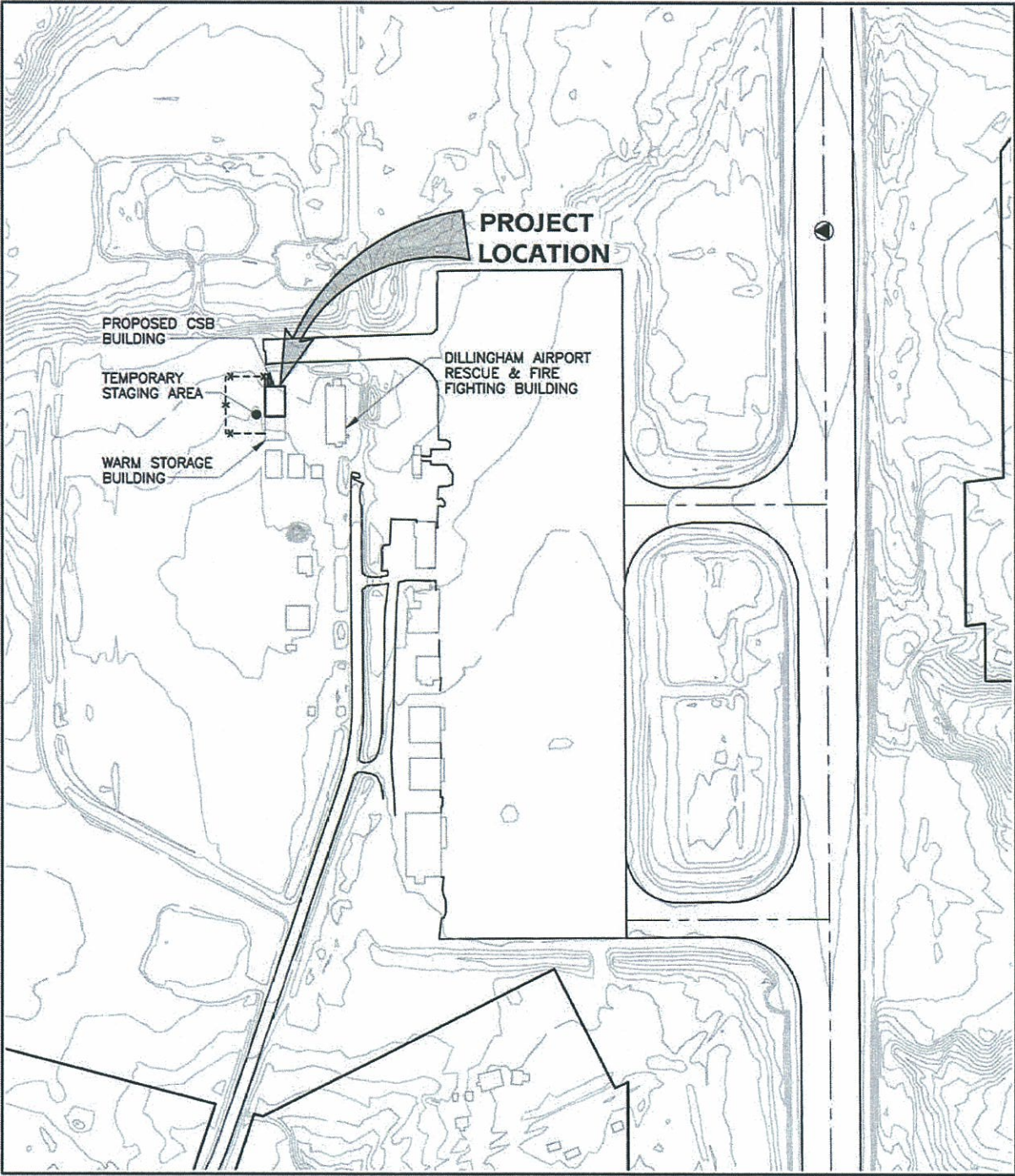
GENERAL NOTES

UTILITIES

1. THE LOCAL UTILITIES ARE:
- POWER - NUSHUGAK ELECTRIC COOPERATIVE (907) 842-5241
WATER & SEWER - CITY OF DILLINGHAM (907) 842-2260
AIRPORT - AIRPORT MANAGER (907) 842-5511

GEOTECHNICAL INVESTIGATION

1. A GEOTECHNICAL INVESTIGATION BY DUANE MILLER AND ASSOCIATES WAS COMPLETED IN SEPTEMBER 2008. REPORT AVAILABLE FROM DEPARTMENT UPON REQUEST.



ABBREVIATIONS

ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CMP	CORRUGATED METAL PIPE
CSB	CHEMICAL STORAGE BUILDING
DIA	DIAMETER
DWG	DRAWING
FF	FINISHED FLOOR
I.E.	INVERT ELEVATION
LF	LINEAR FEET
MIN	MINIMUM
STD	STANDARD
TYP	TYPICAL
W/	WITH

LEGEND

PROPOSED

—E—	ELECTRICAL
---SS---	SANITARY SEWER
---W---	WATER LINE
—X—X—	FENCE
—C—C—	CULVERT
⊙	CLEANOUT
•	BOLLARD

DETAIL IDENTIFICATION

A	DETAIL LETTER	A
C1/C2	SHEET WHERE DETAIL IS DRAWN	C3
	SHEET FROM WHICH DETAIL IS CALLED	

RECORD INFORMATION WAS FURNISHED BY THE CONSTRUCTION CONTRACTOR AND TRANSFERRED TO DRAWINGS BY PDC, INC.

PDC, INC. WAS NOT RETAINED TO FIELD VERIFY RECORD CONDITIONS.

RECORD DRAWING LEGEND:

XXXX	RECORD DELETION/RELOCATION
XXXX	RECORD ADDITION/CORRECTION
EXAMPLE	RECORD TEXT EXPUNGEMENT

RECORD DRAWING

DATE: 10/30/2012 BY: RJP

A VICINITY MAP
C1.1 C1.1 NOT TO SCALE

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
NOTES, LEGEND, &
ABBREVIATIONS &
VICINITY MAP

DESIGN	TMZ
DRAWN	TMZ
CHECKED	RHS
DATE	JUNE 26, 2001
STATE PROJECT No.	50928
SHEET NUMBER	

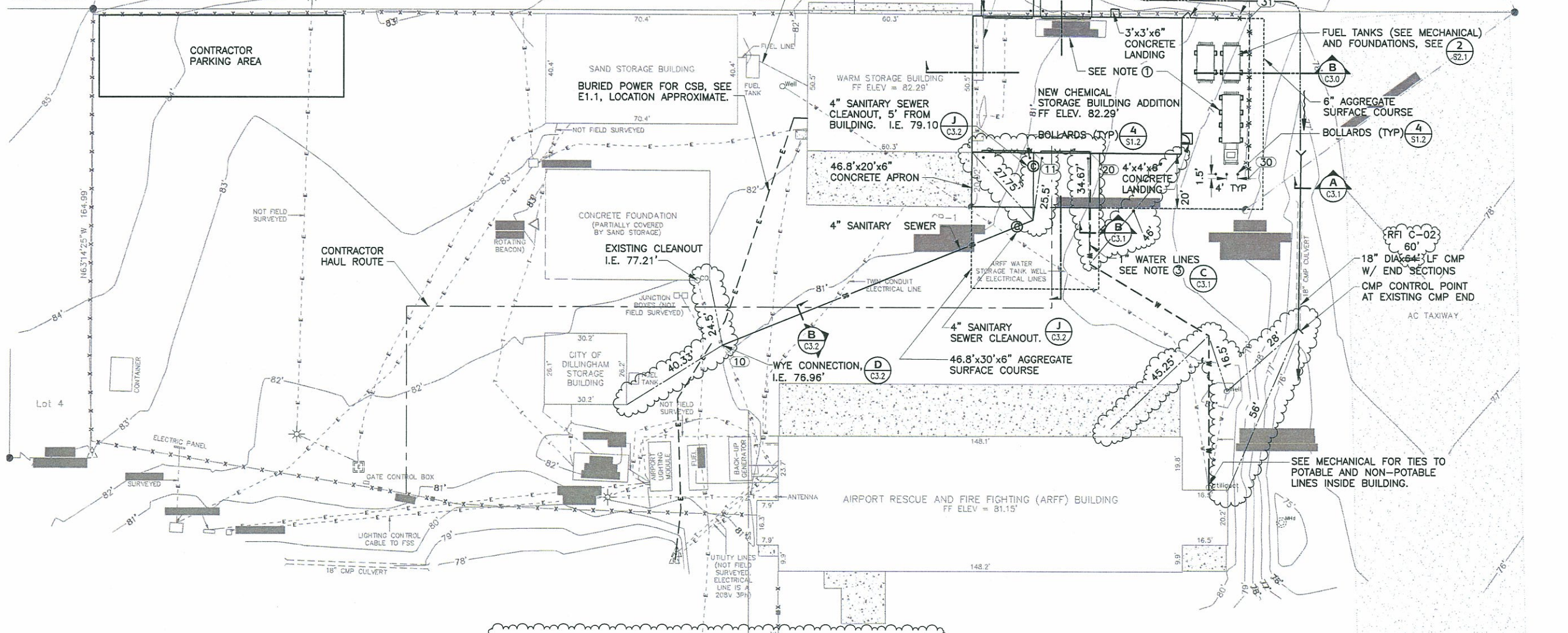
C1.0

ITEM 14, ADDENDUM 1:

THE WATER SERVICE TO THE EXISTING ARFF BUILDING IS SERVED BY TWO WELLS, ONE NON-POTABLE WELL LOCATED BETWEEN THE WARM STORAGE AND SAND STORAGE BUILDINGS AND ONE POTABLE WELL APPROXIMATELY 35' WEST OF THE NW CORNER OF THE ARFF BUILDING. EACH WELL HAS A WATER LINE THAT IS BURIED A MINIMUM OF 8' FT BELOW GRADE LEVEL. THE NON-POTABLE WATER LINE ENTERS THE ARFF BUILDING ABOVE GRADE LEVEL THROUGH A WALL PENETRATION WITHIN AN EXTERIOR INSULATED COVER OVER AN 8' FT VERTICAL SECTION OF UTILITY LOCATED ALONG THE WEST WALL OF THE ARFF BUILDING. THE NEW PIPING FOR THE CHEMICAL STORAGE BUILDING WATER SERVICE SHALL EXIT THE ARFF BUILDING WALL AT THIS SAME LOCATION AND EXTEND DOWN THROUGH THE EXISTING VERTICAL SECTION OF UTILITY WHERE IT WILL BE ROUTED TOWARDS THE NEW CSB AS INDICATED ON SHEET C2.0 OF THE CONTRACT DRAWINGS. NO DEMOLITION OF EXISTING CONCRETE IS ANTICIPATED FOR THIS WORK ITEM.

TEMPORARY CONSTRUCTION STAGING AREA, APPROXIMATELY 100' X 145'. TO BE SECURED BY THE CONTRACTOR W/ 8' CHAIN LINK FENCE AT ALL TIMES DURING ACTIVE CONSTRUCTION. FENCE TO BE REMOVED FROM OCTOBER 15 TO APRIL 15.

03.93, 1427.16 LEFT (feet)
38, 435 LEFT (meters)
=85.00' (25.909m)



NOTES:

- ADOT&PF TO REMOVE EXISTING FUEL TANK PRIOR TO CONSTRUCTION. CONTRACTOR TO SET EXISTING TANK WITH TWO NEW TANKS PER LOCATIONS INDICATED ON S2.1.
- LOCATE EXISTING SEWER AND WATER LINES PRIOR TO LAYING ANY PIPE. CONTRACTOR SHALL NOTIFY DEPARTMENT OF THESE LOCATIONS AND CONFIRM ALIGNMENT.
- LOCATION APPROXIMATE, COORDINATE W/ DEPARTMENTS SITE REPRESENTATIVE FOR EXACT TRENCH LOCATION AND BUILDING PENETRATION.

ITEM 2, ADDENDUM 2:

DEPARTMENT WILL MOVE TANK FT-3 TO TEMPORARY LOCATION WITHIN ADOT'S FENCED YARD PRIOR TO CONTRACTOR MOBILIZING ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING TANK FT-3 FROM TEMPORARY LOCATION TO NEW TANK FOUNDATION, REF A/C2.0 & 1/S2.1. CONTRACTOR SHALL NOTIFY DEPARTMENT A MINIMUM OF 3 WEEKS PRIOR TO MOVING TANK. CONTRACTOR SHALL BE RESPONSIBLE FOR EMPTYING FUEL TANK PRIOR TO MOVE AND SUPPLYING A TEMPORARY DIESEL DISPENSING TANK (MINIMUM 500 GAL CAPACITY WITH ELECTRIC DISPENSING SYSTEM FOR DEPARTMENT'S USE) DURING THE TIME PERIOD WHERE TANK FT-3 IS INOPERABLE OF OTHERWISE NOT AVAILABLE FOR USE BY THE DEPARTMENT. SEE ADDENDUM ITEM 10.

POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
10	49685.36	49980.51	SEWER LINE
11	49819.08	49967.83	SEWER LINE
20	49837.83	49977.35	WATER LINE
30	49885.36	50011.29	FENCE
31	49911.96	49958.90	FENCE

THESE POINTS ARE INCORRECT

A SITE PLAN

20 10 0 20 40 60 FEET

RECORD DRAWING

DATE: 10/30/2012 BY: RJP

ADDENDUM 1 & 2

10/09

F&W

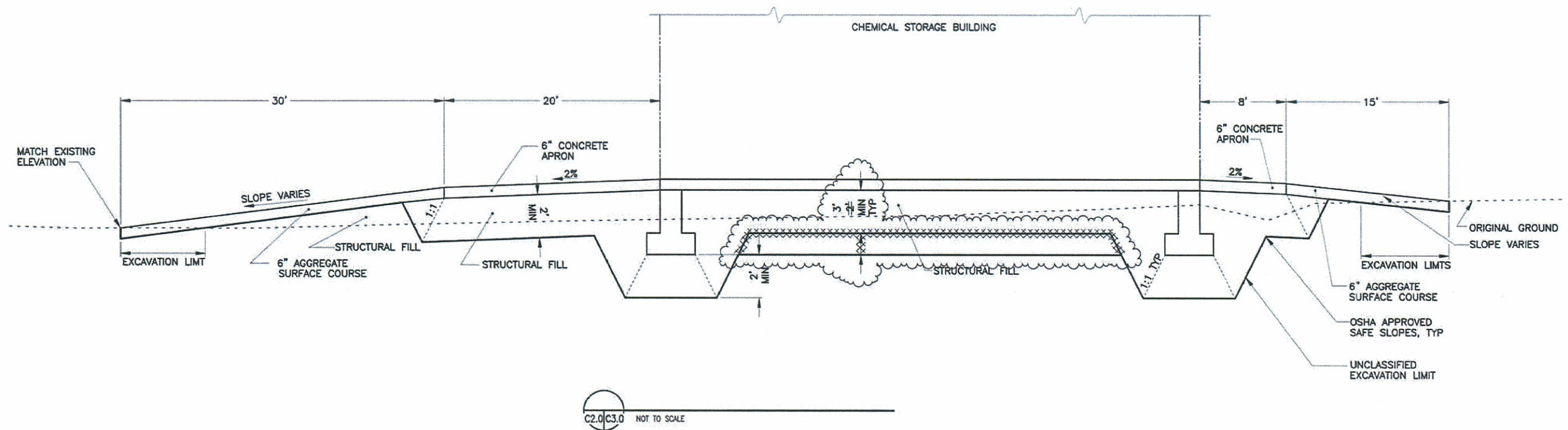
PLANS DEVELOPED BY:
PDC, INC.

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
SITE PLAN

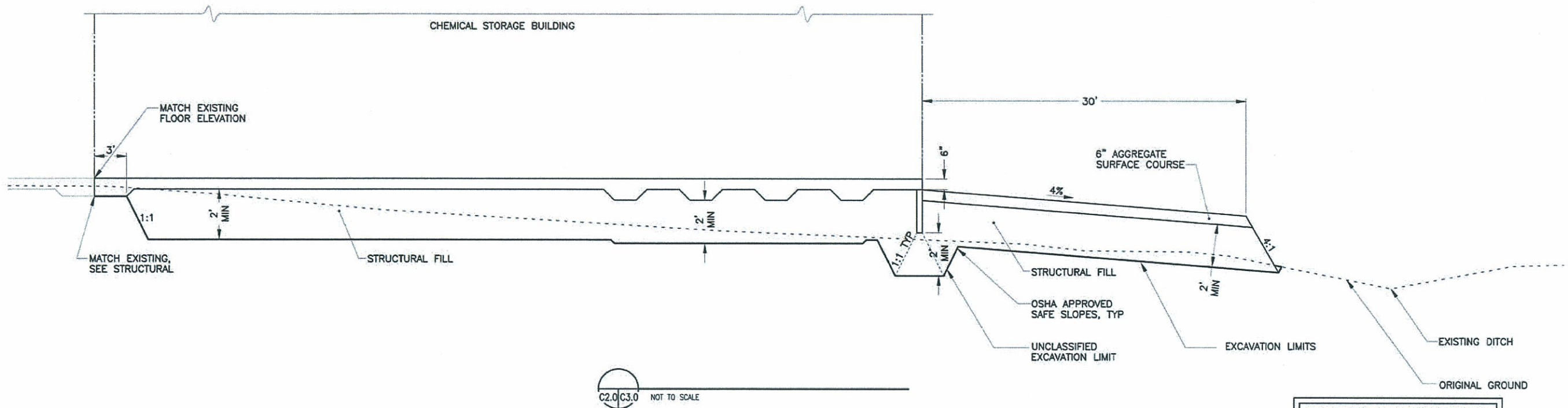
DESIGN: TMZ
DRAWN: TMZ
CHECKED: RHG
DATE: JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

C2.0



NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE APRONS, LANDINGS AND TANK FOUNDATIONS.



RECORD DRAWING

DATE: 10/30/2012 BY: RJP

ADDENDUM 1 & 2			
F&W	10/09	BY	DATE

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

PROJECT :

**DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA**

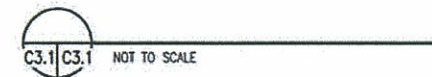
SHEET TITLE :

SITE SECTIONS

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DRAWN	TMZ
CHECKED	RHG
DATE	JUNE 26, 2009

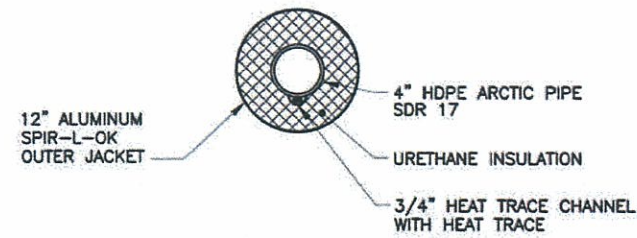
STATE PROJECT No.
50928

SHEET NUMBER
C3.0

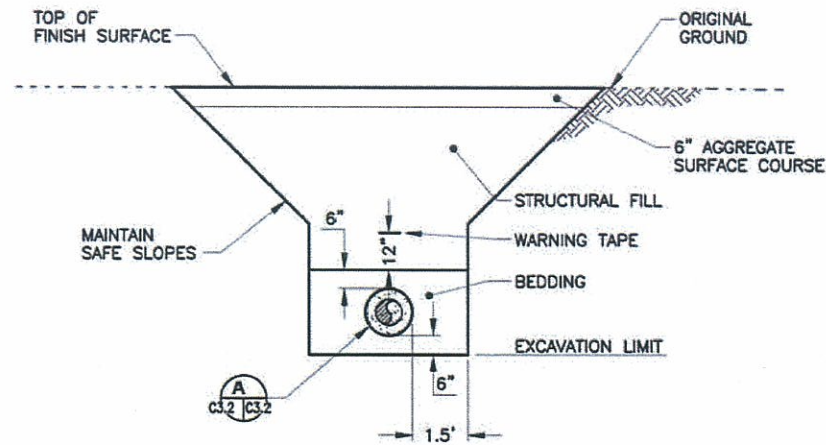


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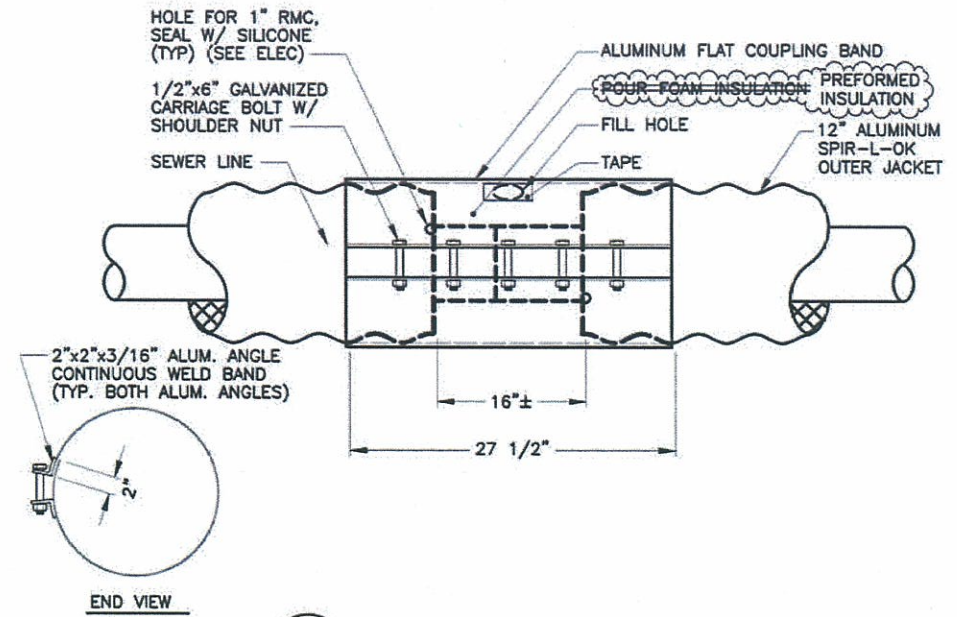
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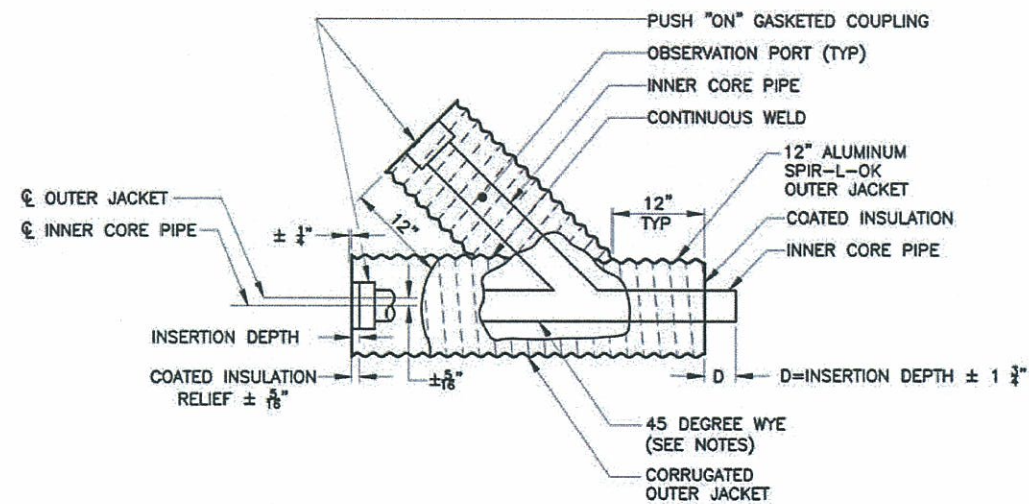
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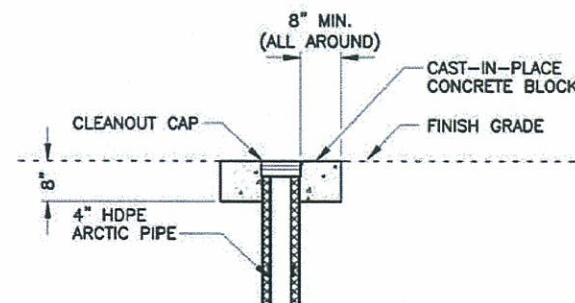
C2.0/C3.2 NOT TO SCALE



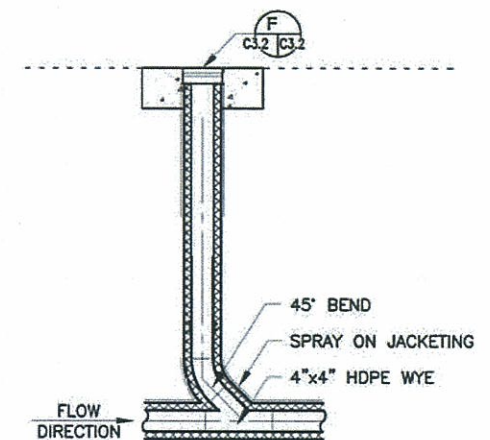
C3.2/C3.2 NOT TO SCALE



C2.0/C3.2 NOT TO SCALE



C3.2/C3.2 NOT TO SCALE



C2.0/C3.2 NOT TO SCALE

RECORD DRAWING

DATE: 10/30/2012 BY: RJP

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
DETAILS

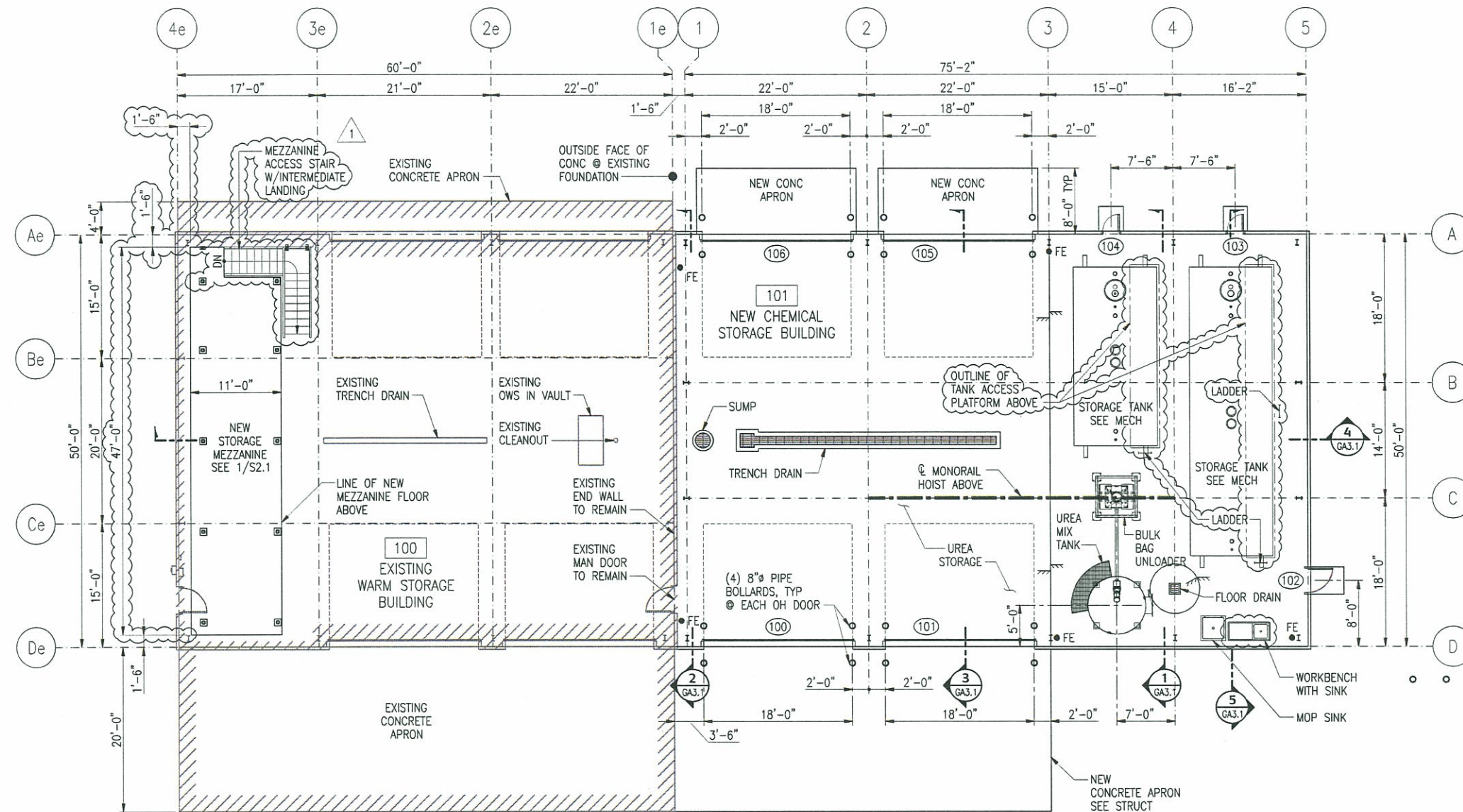
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DRAWN TMZ
CHECKED RHG
DATE JUNE 26, 2009

STATE PROJECT No.
50928

SHEET NUMBER

C3.2

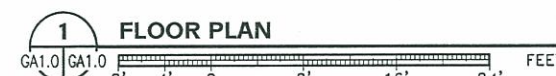
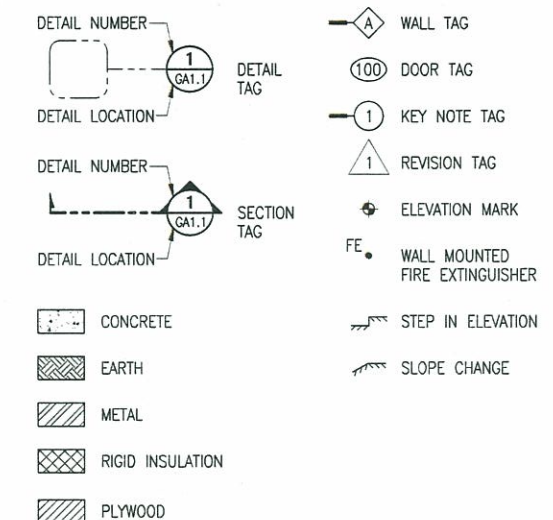
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GENERAL ARRANGEMENT NOTES

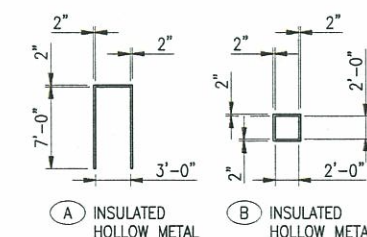
- COORDINATE LOCATIONS OF EXTERIOR WALL OPENINGS FOR MECHANICAL LOUVERS WITH MECHANICAL DRAWINGS.
- EXISTING WARM STORAGE BUILDING (WSB) IS A PRE-ENGINEERED METAL BUILDING (PEMB) MANUFACTURED BY STAR BUILDING SYSTEMS IN 2005. MANUFACTURERS DRAWINGS FOR THIS BUILDING ARE AVAILABLE FROM DEPARTMENT UPON REQUEST.
- NEW CHEMICAL STORAGE BUILDING (CSB) ADDITION IS TO BE A PRE-ENGINEERED METAL BUILDING (PEMB) THAT MATCHES EXISTING WARM STORAGE BUILDING (WSB) IN WIDTH, HEIGHT AND ROOF SLOPE. REFERENCE SECTION 13125 OF CONTRACT SPECIFICATIONS.

GENERAL ARRANGEMENT SYMBOLS



DOOR SCHEDULE

DOOR No.	SIZE	FRAME	FRAME TYPE	DOOR	DOOR TYPE	HEAD	JAMB	SILL	RATING	HARDWARE	REMARKS
100	18'-0"W x 14'-0"H	STL	-	IHM	III	4/GA4.1	6/GA4.1	5/GA4.1	-	3	OVERHEAD DOOR
101	18'-0"W x 14'-0"H	STL	-	IHM	III	4/GA4.1	6/GA4.1	5/GA4.1	-	3	OVERHEAD DOOR
102	3'-0"W x 7'-0"H	IHM	A	IHM	I	1/GA4.1	-	2/GA4.1	-	1	EXTERIOR MAN DOOR
103	2'-0"W x 2'-0"H	IHM	B	IHM	II	1/GA4.1	-	-	-	2	EXTERIOR ACCESS DOOR
104	2'-0"W x 2'-0"H	IHM	B	IHM	II	1/GA4.1	-	-	-	2	EXTERIOR ACCESS DOOR
105	18'-0"W x 14'-0"H	STL	-	IHM	III	4/GA4.1	6/GA4.1	5/GA4.1	-	3	OVERHEAD DOOR
106	18'-0"W x 14'-0"H	STL	-	IHM	III	4/GA4.1	6/GA4.1	5/GA4.1	-	3	OVERHEAD DOOR



FRAME TYPES

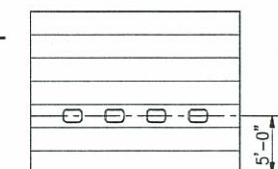


I INSULATED HOLLOW METAL WITH RELITE

II INSULATED HOLLOW METAL

III INSULATED HOLLOW METAL

DOOR TYPES



WINDOW

RECORD DRAWING

DATE: 10/30/2012

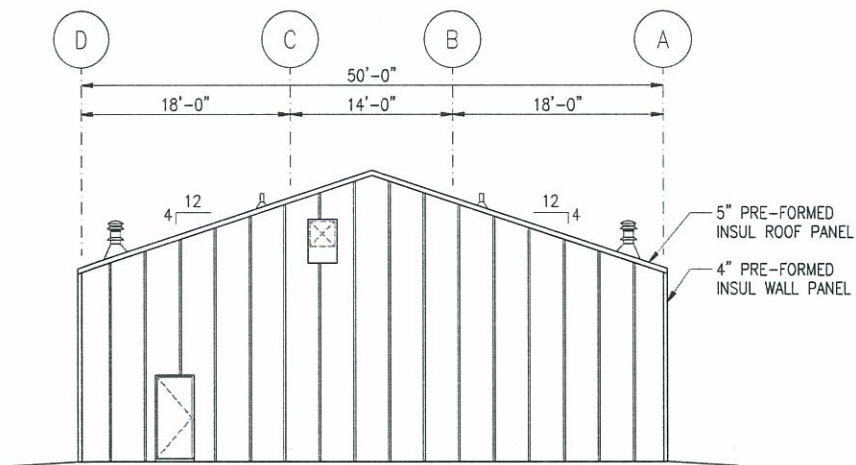
BY: DJM

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

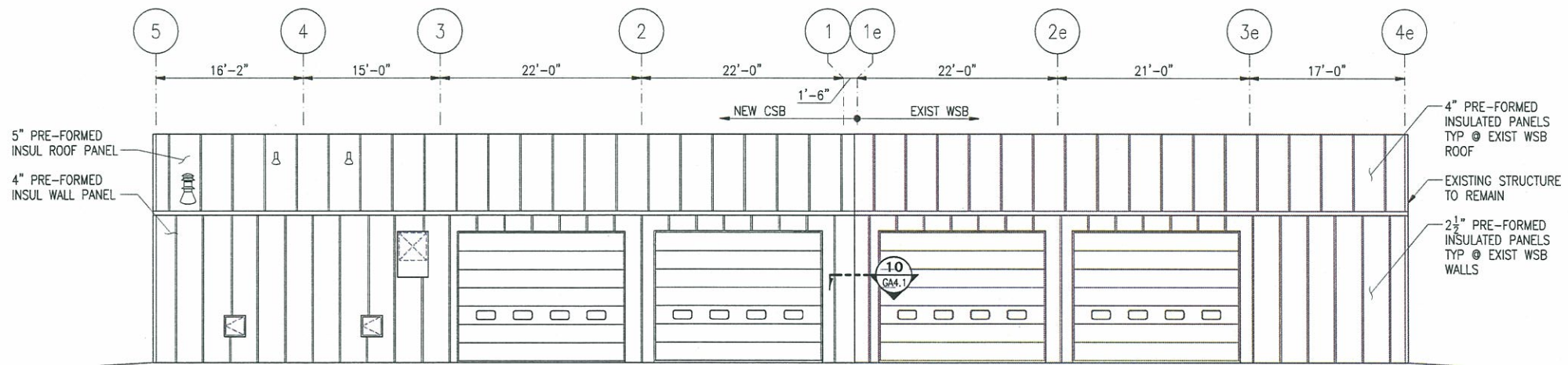
SHEET TITLE :
FLOOR PLAN

DESIGN PWR
DRAWN DJM
CHECKED JUL
DATE JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

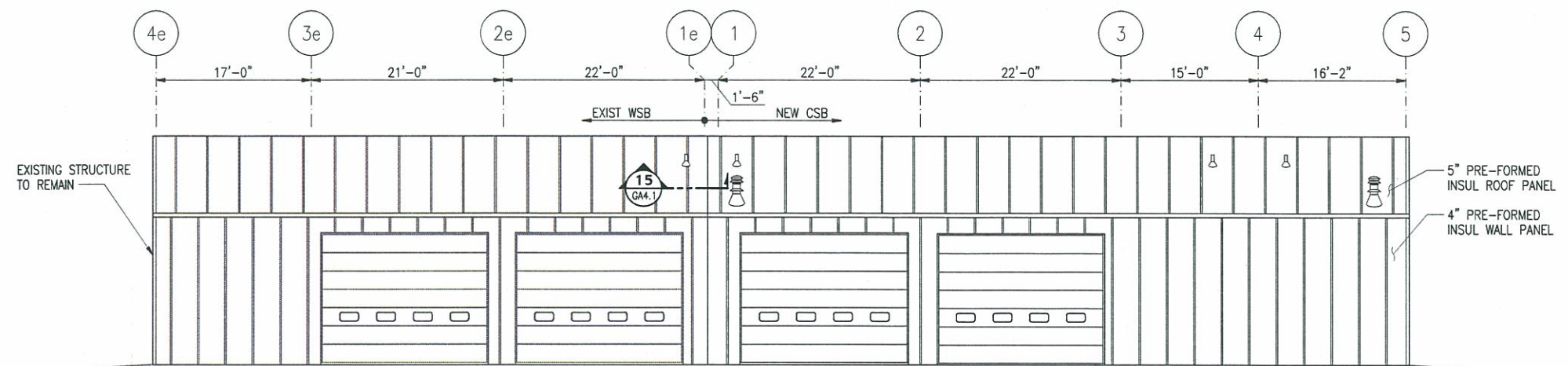
GA1.0



1 NORTH EXTERIOR BUILDING ELEVATION
GA2.1 GA2.1
8' 4' 0' 8' 16' 24' FEET



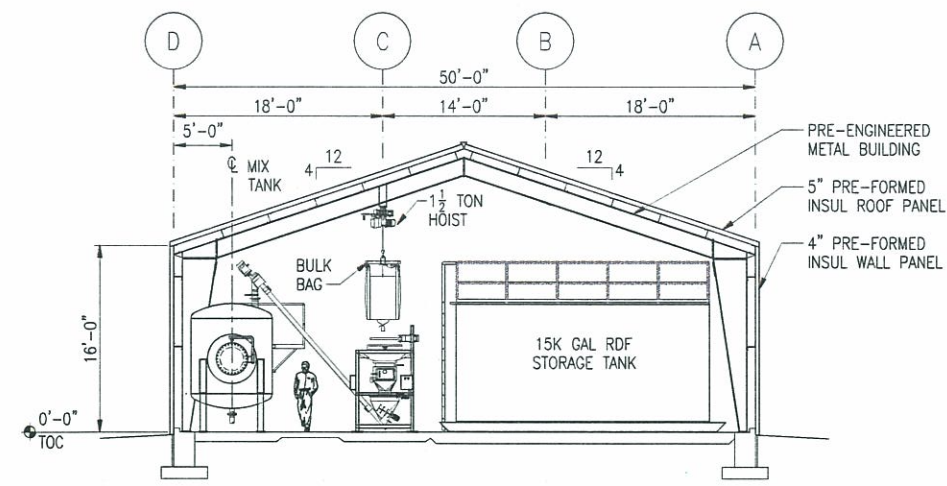
2 WEST EXTERIOR BUILDING ELEVATION
GA2.1 GA2.1
8' 4' 0' 8' 16' 24' FEET



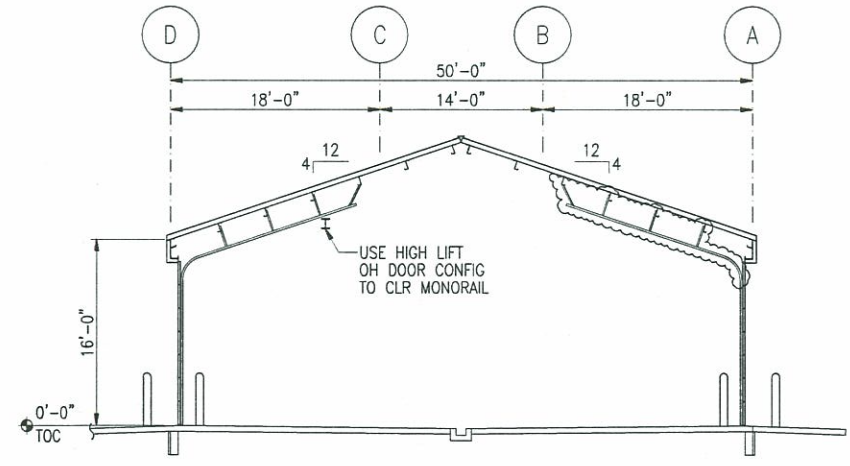
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GA2.1 GA2.1
8' 4' 0' 8' 16' 24' FEET

RECORD DRAWING
DATE: 10/30/2012 BY: DJM

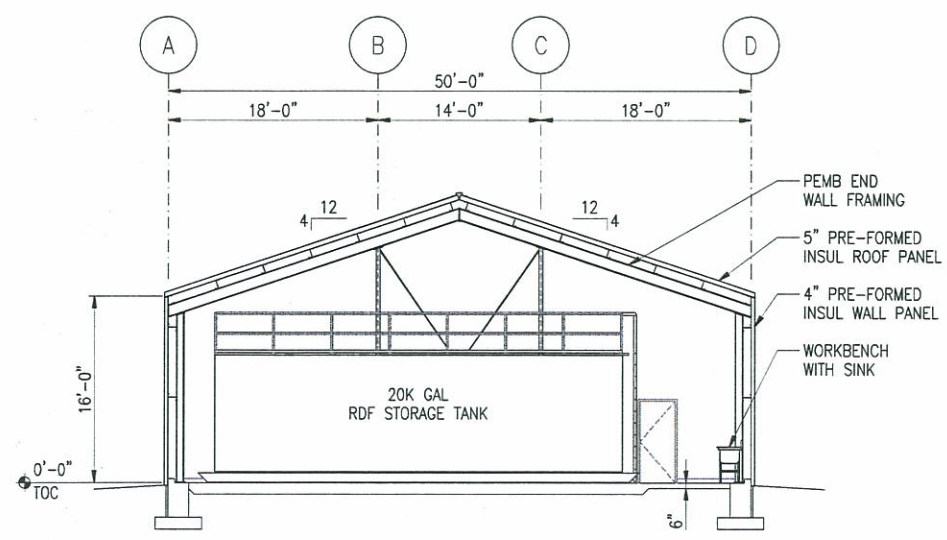
PROJECT :		DILLINGHAM AIRPORT CHEMICAL STORAGE BUILDING ALASKA DOT & PUBLIC FACILITIES AIP 3-02-0078-011-2009 DILLINGHAM, ALASKA	
SHEET TITLE :		EXTERIOR BUILDING ELEVATIONS	
DESIGN	PWR	DATE	JUNE 26, 2009
DRAWN	DJM	STATE PROJECT No.	50928
CHECKED	JUL	SHEET NUMBER	GA2.1
PLANS DEVELOPED BY:		PDC, INC.	
CONSULTANT:			
REVISIONS	DATE	BY	



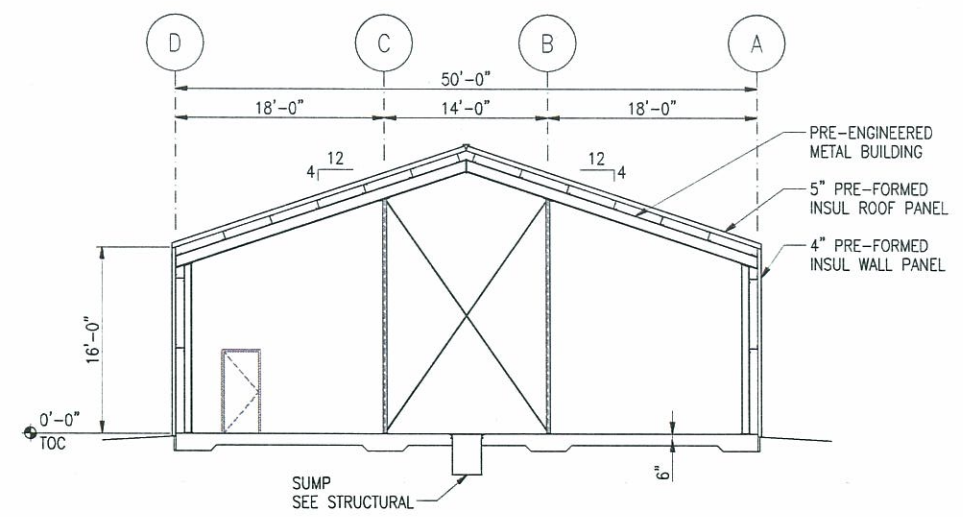
1 BUILDING SECTION
GA1.0 GA3.1 8' 4' 0' 8' 16' 24' FEET



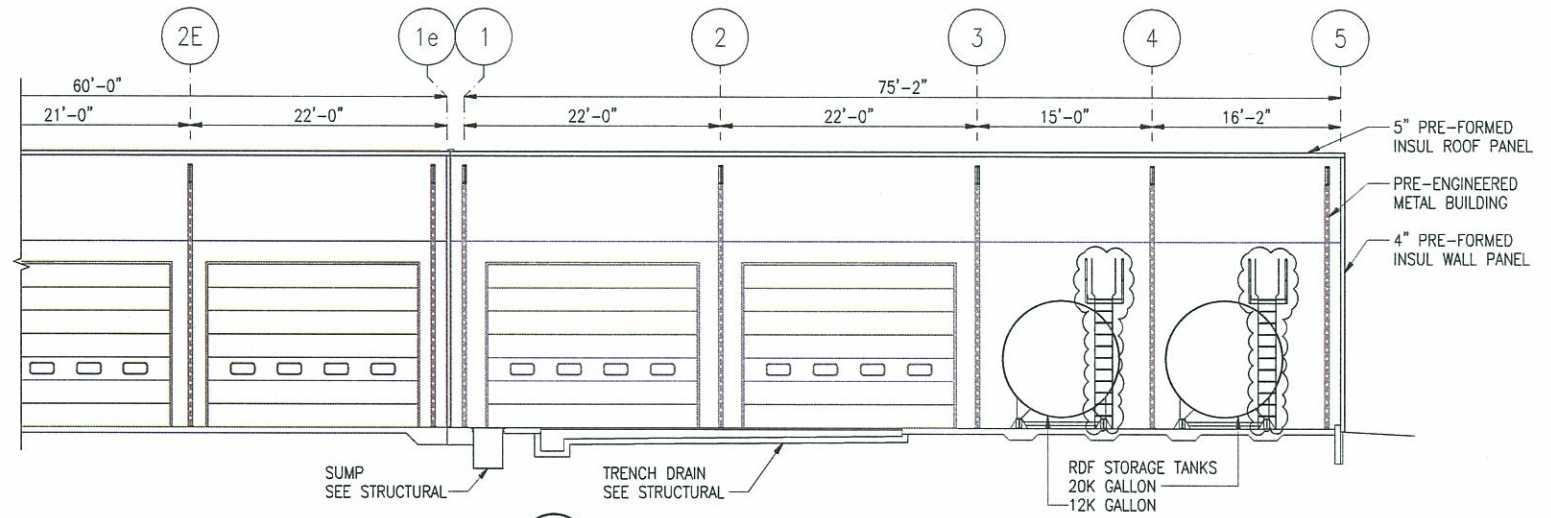
3 BUILDING SECTION
GA1.0 GA3.1 8' 4' 0' 8' 16' 24' FEET



5 BUILDING SECTION
GA1.0 GA3.1 8' 4' 0' 8' 16' 24' FEET



2 BUILDING SECTION
GA1.0 GA3.1 8' 4' 0' 8' 16' 24' FEET



4 BUILDING SECTION
GA1.0 GA3.1 8' 4' 0' 8' 16' 24' FEET

RECORD DRAWING

DATE: 10/30/2012 BY: DJM

REVISIONS	DATE	BY

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
BUILDING SECTIONS

DESIGN	PWR
DRAWN	DJM
CHECKED	JUL
DATE	JUNE 26, 2009
STATE PROJECT No.	50928
SHEET NUMBER	GA3.1

1 EXTERIOR DOOR HEAD
-GA4.1 1 1/2" = 1'-0"

2 EXTERIOR DOOR SILL
-GA4.1 1 1/2" = 1'-0"

3 TYP EXTERIOR WALL CORNER
- GA4.1 1 1/2" = 1'-0"

4 OVERHEAD DOOR HEAD
-GA4.1 1 1/2" x 1'-0"

5 OVERHEAD DOOR SILL
-GA4.1 | 1/2" = 1'-0"

6 OVERHEAD DOOR JAMB
- GA4.1 1 1/2" = 1'-0"

7 TYP BASE DETAIL

8 TYP LOUVER/HEAD/SILL
-GA4.1 1 1/2" = 1'-0"

NOTE:
USE SIMILAR DETAIL AND MODIFY DIAMETER OF ABS PIPE SLEEVE FOR
OTHER WALL PENETRATIONS

12 TYPICAL DETAIL AT SUPPORT
PENETRATING WALL PANEL

NOTES:

1. REMOVE EXISTING RAKE FLASHING AT WSB END WALL AND INSTALL NEW 26ga CUSTOM FLASHING WITH SEALANT.

15 WALL DETAIL BETWEEN BUILDINGS

RECORD DRAWING

DATE: 10/30/2012

BY: DJM

[illegible]PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

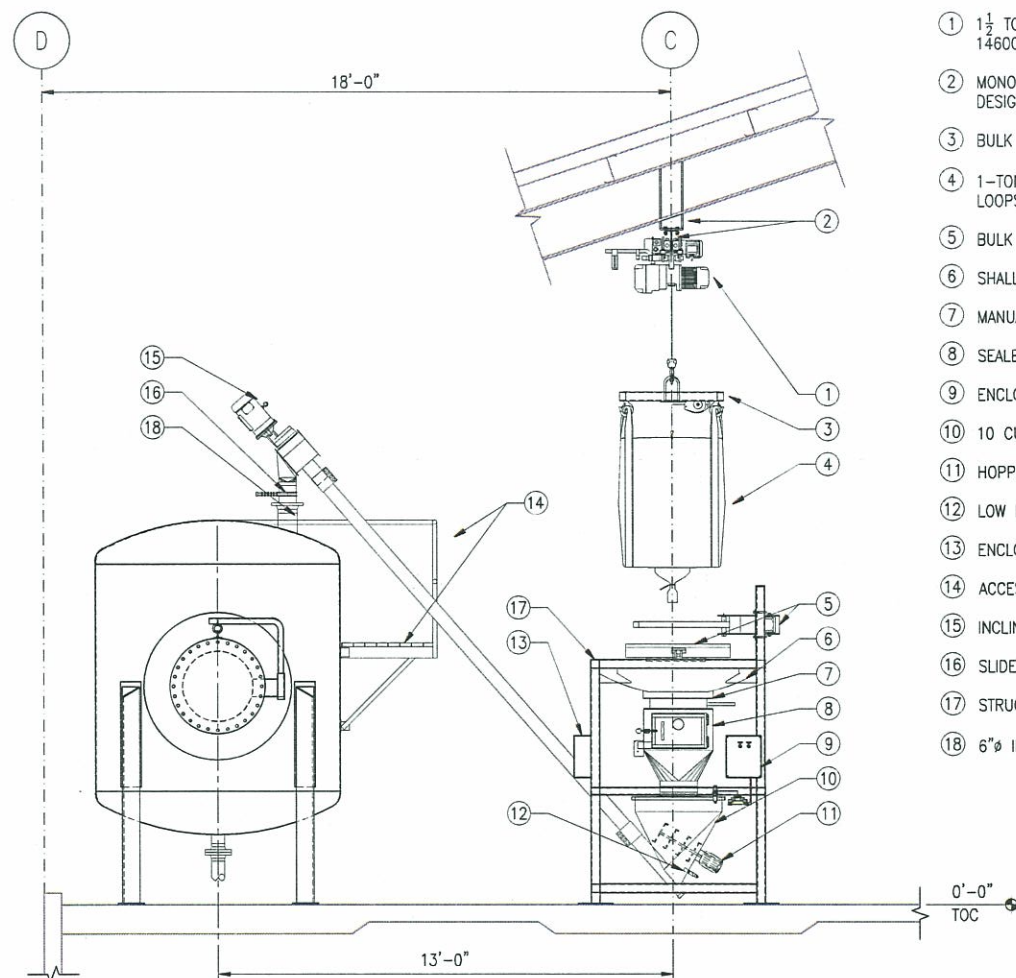
PROJECT : DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
DETAILS

DESIGN	PW
DRAWN	DJ
CHECKED	JJ

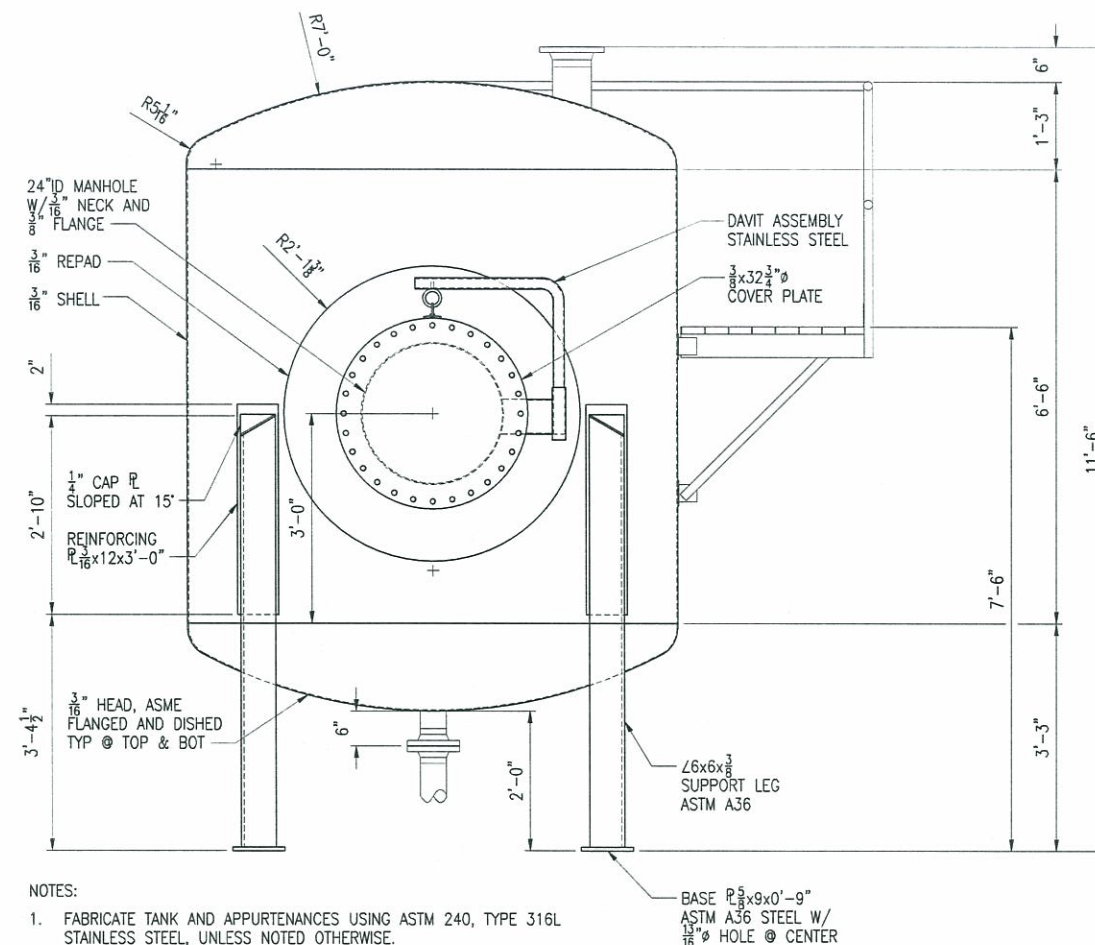
STATE PROJECT No.
50928

GA4.1



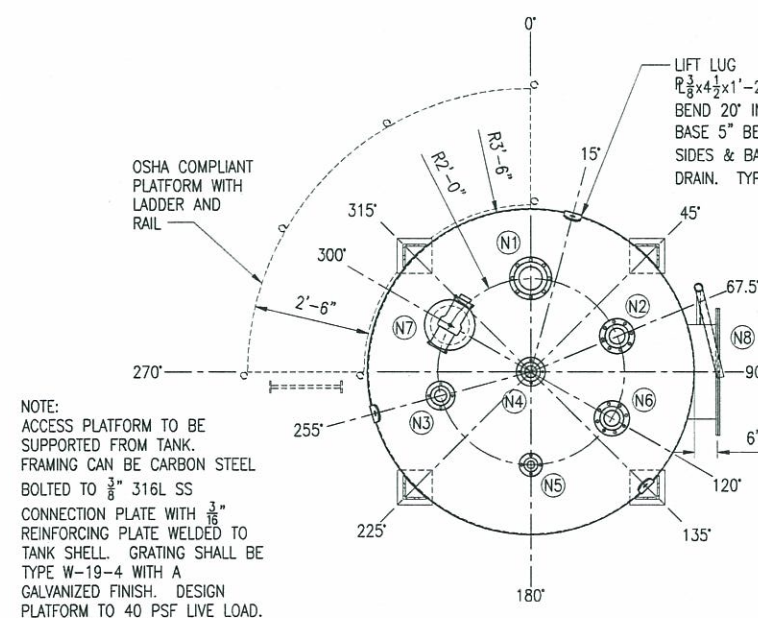
1 BULK BAG UNLOADING SYSTEM
S5.1 3/8"=1'-0"

- ① 1½ TON TROLLEY MOUNTED HOIST, REFERENCE SPECIFICATION SECTION 14600.
- ② MONORAIL BEAM AND CONNECTION TO STRUCTURAL FRAME PER PEMB DESIGNER.
- ③ BULK BAG SUPPORT FRAME WITH BAG LINER TENSIONER.
- ④ 1-TON BULK BAG WITH BOTTOM DISCHARGE SPOUT AND (4) CORNER LOOPS, DIMENSIONS VARY.
- ⑤ BULK BAG CONDITIONERS, PNEUMATICALLY ACTUATED.
- ⑥ SHALLOW PAN BULK BAG SUPPORT HOPPER.
- ⑦ MANUAL IRIS VALVE.
- ⑧ SEALED ENCLOSURE WITH ACCESS DOOR TO BAG DISCHARGE SPOUT.
- ⑨ ENCLOSURE FOR PNEUMATIC CONTROLS.
- ⑩ 10 CUBIC FOOT HOPPER.
- ⑪ HOPPER AGITATOR, LOW RMP GEAR BOX AND HD PADDLES.
- ⑫ LOW LEVEL SWITCH.
- ⑬ ENCLOSURE FOR ELECTRICAL CONTROLS.
- ⑭ ACCESS PLATFORM, OSHA COMPLIANT.
- ⑮ INCLINED SCREW CONVEYOR WITH BOTTOM CLEANOUT.
- ⑯ SLIDE VALVE, PNEUMATICALLY ACTUATED.
- ⑰ STRUCTURAL SUPPORT FRAME FOR UNLOADING EQUIPMENT.
- ⑱ 6" Ø INTAKE NOZZLE @ UREA MIX TANK.



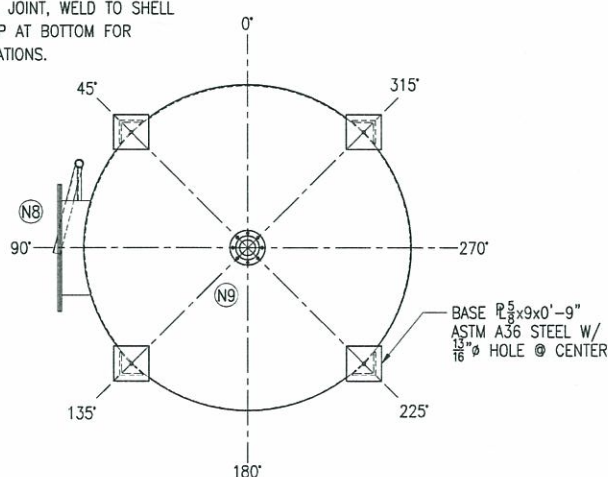
- NOTES:
1. FABRICATE TANK AND APPURTENANCES USING ASTM 240, TYPE 316L STAINLESS STEEL, UNLESS NOTED OTHERWISE.
 2. SEE DETAILS 3 & 4/S5.1 FOR TANK NOZZLE AND LIFT LUG LOCATIONS.
 3. DETAILING, WELDING AND TESTING OF TANK SHALL FOLLOW PROVISIONS OF UL-142.

2 MIX TANK ELEVATION
S5.1 3/4"=1'-0"



NOTE:
ACCESS PLATFORM TO BE SUPPORTED FROM TANK. FRAMING CAN BE CARBON STEEL BOLTED TO 3/8" 316L SS CONNECTION PLATE WITH 3/16" REINFORCING PLATE WELDED TO TANK SHELL. GRATING SHALL BE TYPE W-19-4 WITH A GALVANIZED FINISH. DESIGN PLATFORM TO 40 PSF LIVE LOAD.

3 MIX TANK PLAN VIEW
S5.1 S5.1 1/2"=1'-0"



4 MIX TANK BOTTOM VIEW
S5.1 S5.1 1/2"=1'-0"

MIX TANK NOZZLE SCHEDULE		
MARK	SIZE	DESCRIPTION
N1	6" Ø	AUGER DISCHARGE
N2	4" Ø	RDF RECIRC INLET
N3	3" Ø	LIQUID LEVEL TRANSMITTER
N4	3" Ø	VENT
N5	2" Ø	SUPPLY WATER INLET
N6	4" Ø	SPARE NOZZLE
N7	10" Ø	INSPECTION PORT WITH LOCKING HATCH (MODEL # LB1100, 316L, TANK CONN AFFILIATE GROUP OR EQUAL)
N8	24" Ø	INSPECTION MANHOLE WITH DAVIT ASSEMBLY, 316L
N9	4" Ø	DISCHARGE NOZZLE

- NOTES:
1. NOZZLES TO BE FABRICATED FROM ASTM A312, GRADE TP, TYPE 316L SCH 40 PIPE.
 2. NOZZLE FLANGES TO BE STANDARD ANSI B16.5 150lb RAISED FACE WELDING NECK, 316L SS.

RECORD DRAWING

DATE: 10/30/2012 BY: DJM

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

PROJECT:
**DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA**

SHEET TITLE:
**MIX TANK DETAILS
AND BULK BAG
UNLOADING SYSTEM**

DESIGN PWR
DRAWN DJM
CHECKED JLL
DATE: JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

GA5.1

LIVE LOADS:
GROUND SNOW LOAD 60 PSF
ROOF SNOW LOAD 42 PSF MIN, I = 1.0
SNOW DRIFT PER SEI/ASCE 7-05
MEZZANINE 250 PSF, HEAVY STORAGE

DEAD LOADS:
ROOF PER MTL BLDG MFG
MECH EQUIP PER EQUIP MFG

WIND LOADS:
IN ACCORDANCE WITH THE SEI/ASCE 7-05
BASIC WIND SPEED 120 MPH, EXPOSURE C. I = 1.0

SEISMIC LOADS:
IN ACCORDANCE WITH THE SEI/ASCE 7-05
SEISMIC USE GROUP I, SITE CLASS D, $S_{es} = 0.276g$, $S_o = 0.196g$, I = 1.0
INCLUDE 25% OF ROOF SNOW LOAD IN CALCULATION OF EFFECTIVE SEISMIC WEIGHT OF STRUCTURE, W.

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTION 1704. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

SPECIAL INSPECTION TABLE		
#	ITEM	DESCRIPTION
1	CONCRETE	PERIODIC INSPECTION OF THE FOUNDATION.
2	BOLTS INSTALLED IN CONCRETE	ANCHOR ROD INSTALLATION.
3	REINFORCING STEEL	PLACEMENT OF REINFORCING STEEL.
4	WELDING	A. PERIODIC VISUAL INSPECTION OF FIELD FILLET WELDS. B. PERIODIC VISUAL INSPECTION OF SHOP WELDING. C. ULTRASONIC TESTING OF FULL PEN WELDS NOTED ON PEMB PLANS.
5	HIGH STRENGTH BOLTING	SEE SPECIFICATIONS ON PROCEDURES FOR INSPECTION AND TESTING.
6	SPECIAL GRADING, EXCAVATION AND FILLING	A. FOUNDATION EXCAVATIONS AND BEARING STRATA. B. BACKFILL BEHIND STRUCTURAL WALLS OR SUPPORTING SLAB-ON-GRADE.
7	SPECIAL CASES	A. DRILLED-IN-CONCRETE ANCHORS: PERIODIC SPECIAL INSPECTION SHALL INCLUDE VISUAL OBSERVATION OF DRILLED HOLE, SPACINGS, EDGE DISTANCES AND INSTALLATION. B. EPOXY OR CEMENT GROUTED DOWELS OR ANCHORS: OBSERVE DRILLED HOLES AFTER CLEANING AND OBSERVE INSTALLATION OF GROUT AND ANCHORS.

1. ALL CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:
 - A. MEZZANINE FLOOR, FLOOR SLAB & ALL EXTERIOR CONCRETE - 4,000 PSI
 - B. ALL OTHER CONCRETE - 3,000 PSI
2. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE.
3. ALL REINFORCING BARS, EXCEPT AS NOTED, SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60.
4. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185. A MINIMUM 8 INCH LAP SHALL BE PROVIDED FOR SIDE AND END LAPS. WELDED WIRE FABRIC SHALL BE SUPPORTED ON APPROVED CHAIRS.
5. WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING UNO.
6. MINIMUM CONCRETE COVER SHALL BE:
 - A. 3" FOR CONCRETE CAST AGAINST THE EARTH.
 - B. 1-1/2" FOR BARS EXPOSED TO WEATHER.
 - C. 3/4" FOR SLABS.

1. ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON STRUCTURAL FILL. ALLOWABLE BEARING CAPACITY 3,000 PSF, SEISMIC 4,000 PSF.
2. ALL FOOTING SUBGRADES AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY. ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, MATS, AND WALLS SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DRY DENSITY.
3. ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND THE EXCAVATION BACKFILLED WITH STRUCTURAL FILL.
4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
5. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE CONTINUOUS PLACEMENT.
6. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED.

1. ALL STRUCTURAL STEEL SHALL BE ASTM A36, OR A992. ALL WIDE FLANGE SHAPES, W6 & LARGER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI. STEEL TUBES SHALL BE ASTM A500, GRADE B. STEEL PIPE SHALL BE ASTM A53, GRADE B.
2. ALL BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. NUTS SHALL CONFORM TO ASTM A563. WASHERS SHALL CONFORM TO ASTM F436.
3. ALL WELDING ELECTRODES SHALL BE E70XX.
4. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES LATEST EDITION.
5. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE - STEEL," LATEST EDITION.
6. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED SO THAT ALL PLIES ARE IN SNUG CONTACT. BOLTS THAT ARE INDICATED AS "SLIP CRITICAL," "DIRECT TENSION," OR "FULLY TIGHTENED" SHALL BE EITHER THE TENS OFF TYPE CONFORMING TO ASTM F1852 OR SHALL USE A DIRECT TENSION INDICATOR SUCH AS A LOAD INDICATING WASHER.
7. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).
8. ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES. SPECIAL CONSIDERATION SHOULD BE GIVEN TO TEMPERATURE DIFFERENTIALS AND STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS.
10. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE DEPARTMENT'S REPRESENTATIVE.
11. WELDS SHALL TERMINATE ONE WELD SIZE SHORT OF THE ENDS OR EDGES OF PLATES, FLANGE TIPS, TUBES AND WEBS OF WT's UNO.
12. ALL BOLTED CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM SHALL BE FULLY TENSIONED W/ FACING SURFACES PREPARED AS REQUIRED FOR CLASS 'A' OR BETTER SLIP-CRITICAL JOINTS.

1. ALL METAL DECKING SHALL BE FABRICATED FROM STEEL TYPE ASTM A653, GRADE 33, HAVING A MINIMUM YIELD STRENGTH OF 38,000 PSI. ALL DECKING SHALL BE HOT-DIPPED GALVANIZED. ALL METAL DECK SHALL BE FORMED WITH TELESOPED ENDS OF SHEETS A MINIMUM OF 2 INCHES.
2. WELD COMPOSITE FLOOR DECK WITH 1/2" EFFECTIVE DIAMETER FUSION WELOS AT 12" OC TO SUPPORTING MEMBERS. SIDE SEAMS SHALL BE BUTT PUNCHED AT 18" OC MAXIMUM SPACING. THE MINIMUM THICKNESS OF FLOOR DECK SHALL BE 22 GAGE.
3. ALL WELDING OF METAL DECK SHALL BE IN ACCORDANCE WITH AWS D1.3 SPECIFICATION FOR THE WELDING OF SHEET STEEL IN STRUCTURES.
4. THE METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER THREE (3) SPANS IN THE DIRECTION INDICATED. PROVIDE VERIFICATION THAT SINGLE AND DOUBLE SPANS, IF REQUIRED, SATISFY LOAD AND DEFLECTION REQUIREMENTS OF STEEL DECK INSTITUTE.
5. PROVIDE CONTINUOUS SHEET METAL CLOSURES AT ALL SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURE AT ALL DECK ENDS.

STRUCTURAL ABBREVIATIONS							
ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION
Ⓐ	AT	CSB	CHEMICAL STORAGE BUILDING	H or HORIZ	HORIZONTAL	ℙ	PLATE
AB	ANCHOR BOLT	DIA OR ⌀	DIAMETER	HD	HOT DIPPED	PSF	POUNDS PER SQUARE FOOT
AFF	ABOVE FINISH FLOOR	DICA	DRILLED IN CONCRETE ANCHOR	HSS	HOLLOW STRUCTURAL SECTION	ℙ	PLATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DIM	DIMENSION	IBC	INTERNATIONAL BUILDING CODE	RDF	RUNWAY DEICING FLUID
APPROX	APPROXIMATELY	DL	DEAD LOAD	ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	REINF	REINFORCEMENT
ARCH	ARCHITECTURAL	EA	EACH	JT	JOINT	REQ'D	REQUIRED
BTWN	BETWEEN	ELAST	ELASTOMERIC	LL	LIVE LOAD	SCHED	SCHEDULE
BLDG	BUILDING	ELEV	ELEVATION	LLV	LON LEG VERTICAL	SIM	SIMILAR
BM	BEAM	EQ	EQUAL	LOC	LOCATION	STD	STANDARD
BOF	BOTTOM OF FOOTING	EW	EACH WAY	LONG	LONGITUDINAL	STL	STEEL
BOS	BOTTOM OF STEEL	EXIST	EXISTING	MATL	MATERIAL	T&B	TOP & BOTTOM
BOT	BOTTOM	EXP	EXPANSION	MAX	MAXIMUM	TO	TOP OF
BS	BOTH SIDES	FB	FLAT BAR	MIN	MINIMUM	TOC	TOP OF CONCRETE
CJ	CONTROL JOINT	FDN	FOUNDATION	MFG	MANUFACTURER	TOS	TOP OF STEEL
℄	CENTER LINE	FF	FINISH FLOOR	MPH	MILES PER HOUR	TYP	TYPICAL
CMU	CNCRETE MASONRY UNIT	FS	FAR SIDE	MTL	METAL	UBC	UNIFORM BUILDING CODE
COL	COLUMN	FTG	FOOTING	NO	NUMBER	UNO	UNLESS NOTED OTHERWISE
CONC	CONCRETE	GA	GAGE	NS	NEAR SIDE	V or VERT	VERTICAL
CONT	CONTINUOUS	GALV	GALVANIZED	NTS	NOT TO SCALE	W/	WITH
CONTR'S	CONTRACTORS	GL	GLUELAM	OC	ON CENTER	WP	WORKING POINT
CP	COMPLETE PENETRATION	GLB	GLUELAM BEAM	PEMB	PRE-ENGINEERED METAL BUILDING	WSB	WARM STORAGE BUILDING

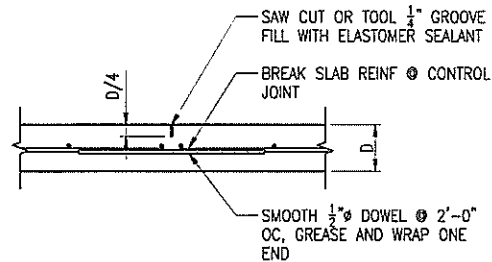
RECORD DRAWING

DATE: 10/30/2012 BY: DJM

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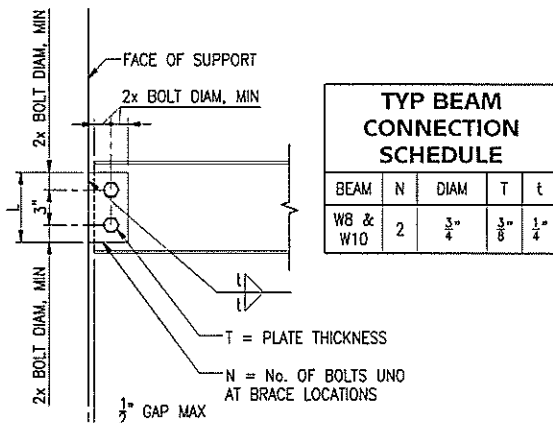
PROJECT :	DILLINGHAM AIRPORT CHEMICAL STORAGE BUILDING ALASKA DOT & PUBLIC FACILITIES AIP 3-02-0078-011-2009 DILLINGHAM, ALASKA	SHEET TITLE : GENERAL NOTES	DESIGN	PWR
			DRAWN	D.M.
			CHECKED	J.L.
			DATE	JUNE 26, 2009
			STATE PROJECT No. 50928	
			SHEET NUMBER S1.1	

PLANS DEVELOPED BY: PDC, INC.	CONSULTANT:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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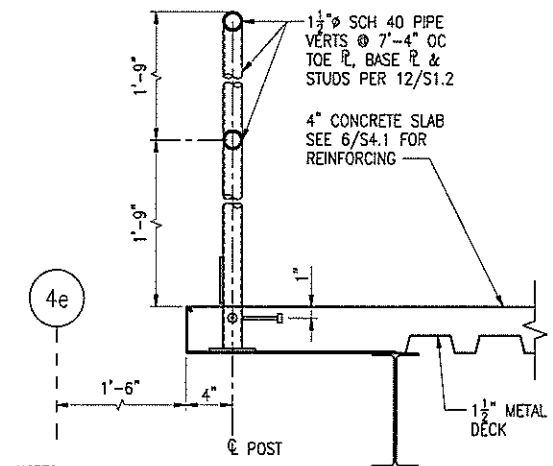
- NOTES:
- IF SAW USED, CUTS SHALL BE MADE AS SOON AS THE JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 24 HOURS OF SLAB PLACEMENT.

1 TYPICAL CONTROL JOINT
S1.2 | S1.2 1'-1'-0" S8013-DET-0001.dwg



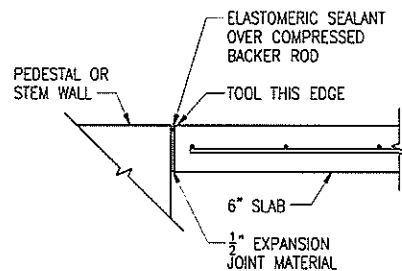
- NOTES:
- ALL BOLTS TO BE A325-N.

5 TYPICAL BEAM CONNECTION
S1.2 | S1.2 1'-1/2'-1'-0" Struct-Det-008.dwg

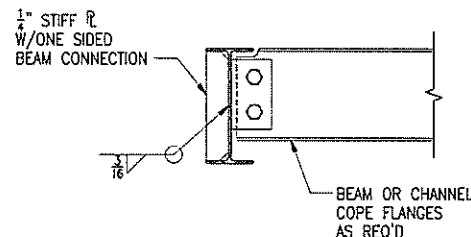


- NOTES:
- GUARDRAIL TO BE OSHA COMPLIANT.

9 GUARDRAIL DETAIL
S4.1 | S1.2 1 1/2'-1'-0"

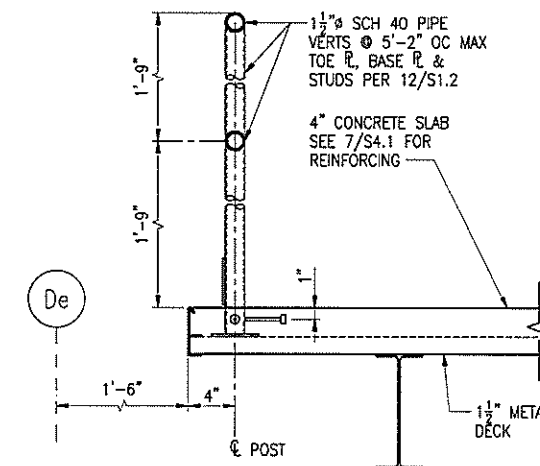


2 TYPICAL ISOLATION JOINT
S1.2 | S1.2 1'-1'-0" S8013-DET-0004.dwg

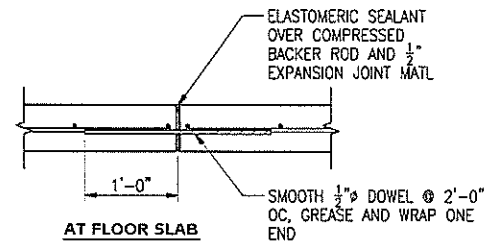


- NOTES:
- SEE TYPICAL BEAM CONNECTION DETAIL FOR DIMENSIONS, PLATE THICKNESS AND BOLTS.

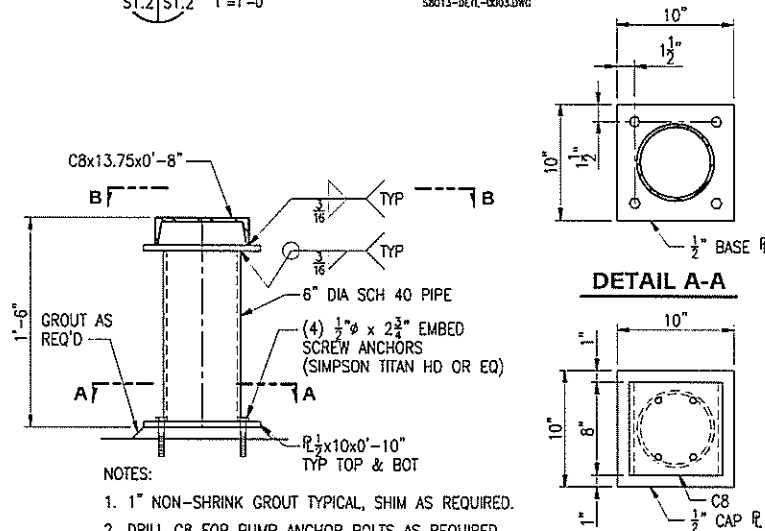
6 TYPICAL BEAM TO GIRDER CONNECTION
S1.2 | S1.2 1'-1/2'-1'-0" Struct-Det-008.dwg



10 GUARDRAIL DETAIL
S4.1 | S1.2 1 1/2'-1'-0"

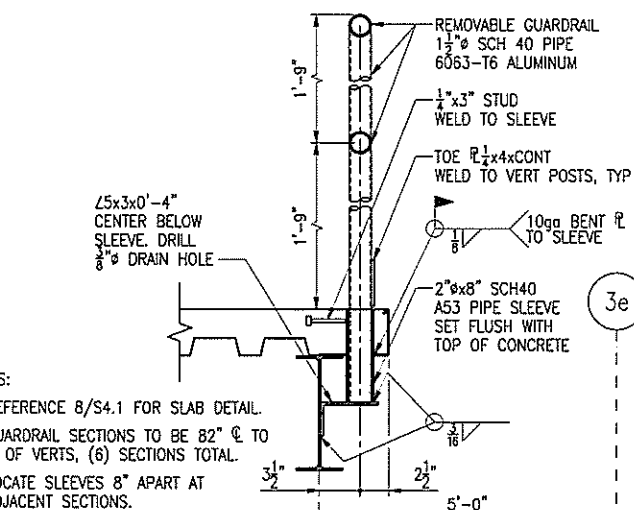


3 TYPICAL CONSTRUCTION JOINT DETAILS
S1.2 | S1.2 1'-1'-0" S8013-DET-0003.dwg



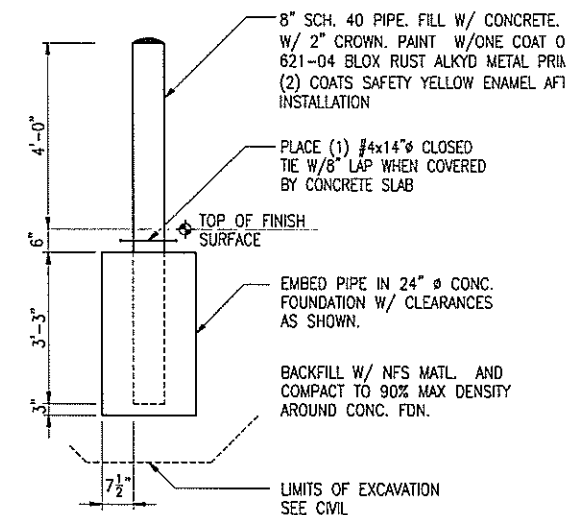
- NOTES:
- 1" NON-SHRINK GROUT TYPICAL, SHIM AS REQUIRED.
 - DRILL C8 FOR PUMP ANCHOR BOLTS AS REQUIRED.

7 DETAIL MECHANICAL PUMP STAND
MS.1 | S1.2 1 1/2'-1'-0"



- NOTES:
- REFERENCE 8/S4.1 FOR SLAB DETAIL.
 - GUARDRAIL SECTIONS TO BE 82" ϕ TO ϕ OF VERTS, (6) SECTIONS TOTAL.
 - LOCATE SLEEVES 8" APART AT ADJACENT SECTIONS.

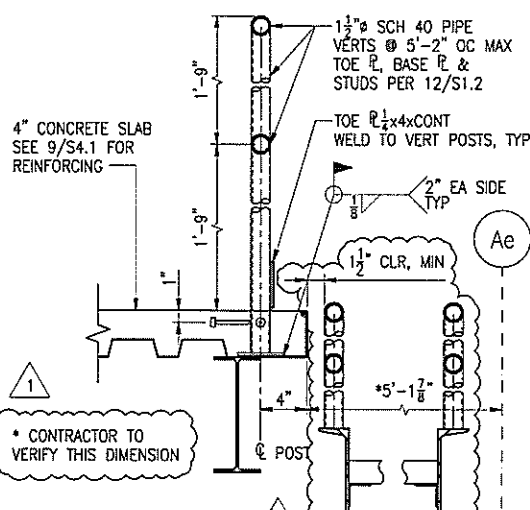
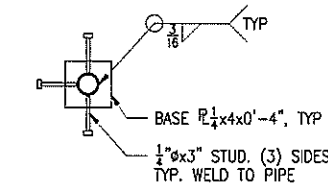
11 GUARDRAIL DETAIL
S4.1 | S1.2 1 1/2'-1'-0"



4 TYPICAL BOLLARD DETAIL
S1.2 | S1.2 1/2'-1'-0" S8013-DET-0002.dwg

RECORD DRAWING

DATE: 10/30/2012 BY: DJM



12 DETAIL GUARDRAIL
S4.1 | S1.2 1 1/2'-1'-0"

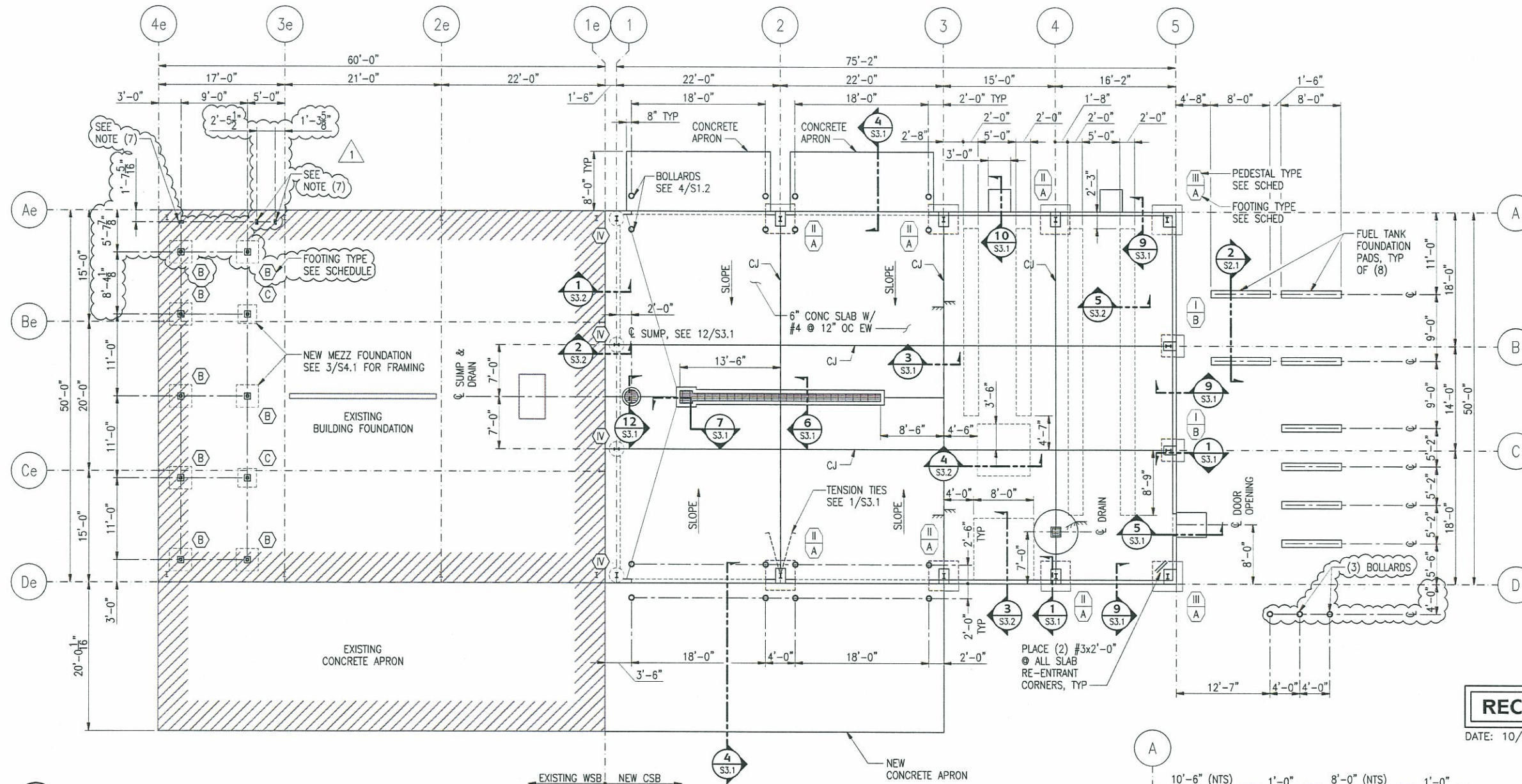
PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:

PROJECT:
**DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA**

SHEET TITLE:
TYPICAL DETAILS

DESIGN PWR
DRAWN DJM
CHECKED JAL
DATE JUNE 20, 2009
STATE PROJECT No.
50928
SHEET NUMBER
S1.2

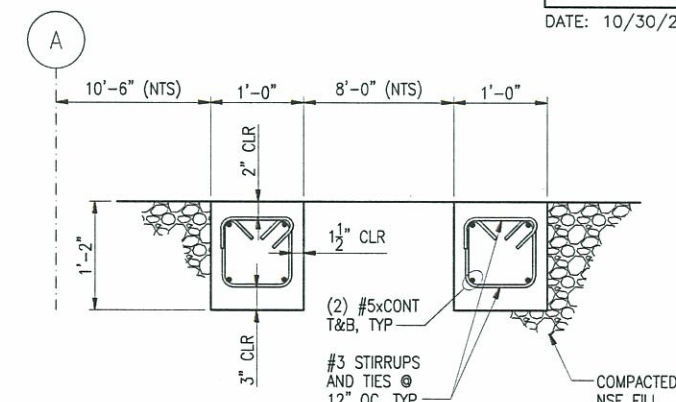


PEDESTAL SCHEDULE				
MARK	SIZE WxLxD	REINFORCING		REF
		VERTS	TIES	
I	14"x20"x2'-6"	(4) #5	(5) #3	1/S3.1
II	16"x24"x2'-6"	(6) #5	(5) #3	1/S3.1
III	20"x24"x2'-6"	(6) #5	(5) #3	1/S3.1
IV	2'-0"x2'-0"	(6) #5	(4) #3	2/S3.2

FOOTING SCHEDULE			
MARK	SIZE WxLxD	REINFORCING	
		TOP BARS	BOTTOM BARS
A	4'-6"x4'-6"x12"	(6) #5	(6) #5
B	3'-0"x3'-0"x12"	(4) #4	(6) #4
C	2'-6"x2'-6"x12"	(4) #3	(4) #4

SHEET NOTES

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLAB EMBEDS, PENETRATIONS AND HOUSEKEEPING PADS.
- SLOPE SLAB TO FLOOR DRAINS $\frac{1}{8}$ " PER 1'-0" MINIMUM, MAINTAIN DESIGN SLAB THICKNESS.
- CONTRACTOR TO COORDINATE AND VERIFY ALL DIMENSIONS SHOWN PRIOR TO PLACING CONCRETE.
- CONTRACTOR RESPONSIBLE FOR MATERIAL TYPE, DIAMETER, PROJECTION AND EMBEDMENT DEPTH OF ALL ANCHOR RODS. COORDINATE WITH PEMB MANUFACTURER.
- TOP OF CONCRETE AT COLUMN PEDESTALS IS LEVEL WITH TOP OF CONCRETE AT FLOOR SLAB.
- TOP OF CONCRETE AT COLUMN FOOTINGS IS 2'-6" BELOW TOP OF CONCRETE AT FLOOR SLAB UNLESS NOTED OTHERWISE.
- COLUMNS AT MEZZANINE ACCESS STAIR SHALL BE HSS3x3x $\frac{3}{8}$. TYPICAL OF (3) COLUMNS.



- NOTES:
- PLACE A MINIMUM 2'-0" OF COMPACTED NFS FILL BELOW TANK FOUNDATION.
 - CAST TOP OF CONCRETE FLUSH WITH GRADE.
 - TANK FOUNDATION PADS TO BE LOCATED BELOW SUPPORT SADDLES. FIELD VERIFY BEFORE PLACING CONCRETE PADS.
 - ANCHOR TANK SKIDS TO CONCRETE FOUNDATION WITH $\frac{3}{4}$ " A304SS WITH 5" EMBED ANCHOR RODS WITH EPOXY ADHESIVE, MINIMUM (4) @ 2K GALLON & (8) @ 4K GALLON TANKS.

SECTION 2
FUEL TANK FOUNDATION
S2.1 S2.1 1"=1'-0"

RECORD DRAWING

DATE: 10/30/2012 BY: DJM

PLANS DEVELOPED BY:
PDC, INC.

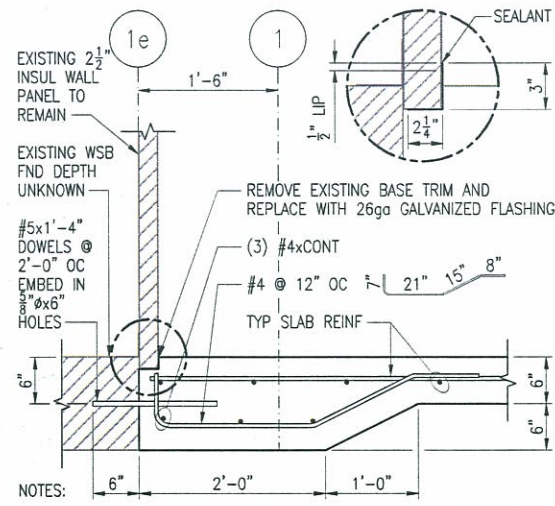
CONSULTANT:

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
FOUNDATION PLAN
AND SCHEDULES

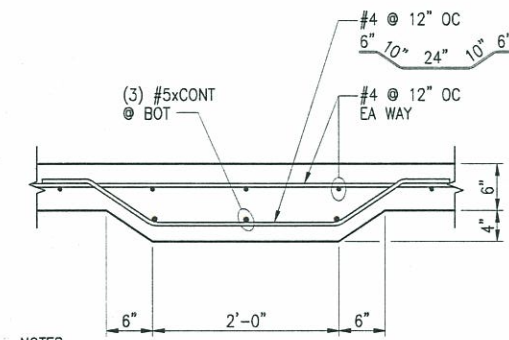
DESIGN PWR
DRAWN DJM
CHECKED JUL
DATE JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

S2.1



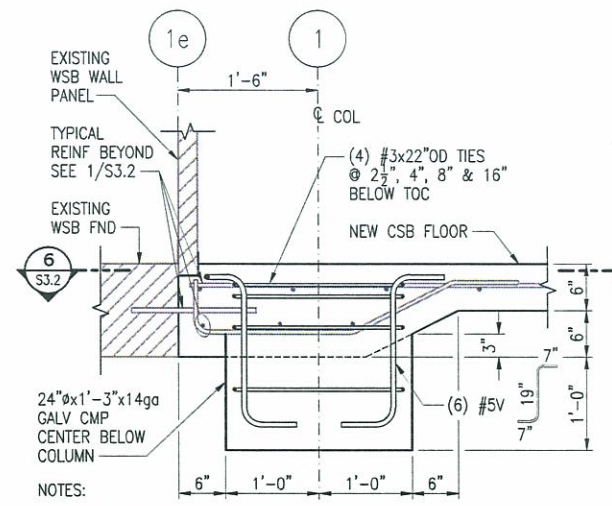
NOTES:
1. REMOVE EXISTING RIGID INSULATION AT FOUNDATION PERIMETER ALONG GRID 1e.

1 SECTION AWAY FROM BUILDING COLUMNS
S2.1 | S3.2 1"=1'-0" SB013-DETL-0037.dwg



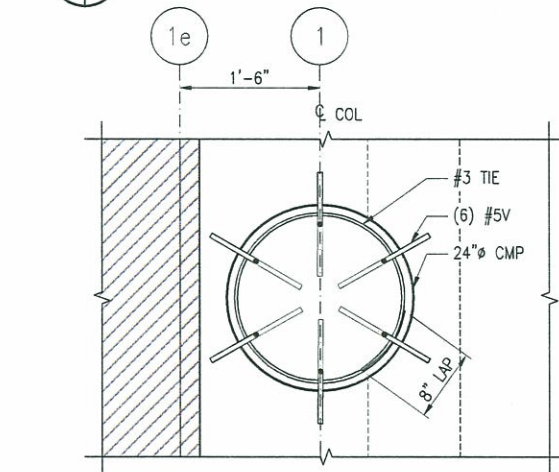
NOTES:
1. THIS DETAIL IS TYPICAL OF (4) LOCATIONS.
2. CONTRACTOR TO VERIFY FOUNDATION LOCATIONS. MATCH TANK SKID SPACING.

5 THICKENED SLAB AT RDF STORAGE TANK FOUNDATION
S2.1 | S3.2 1"=1'-0" SB013-DETL-0042.dwg



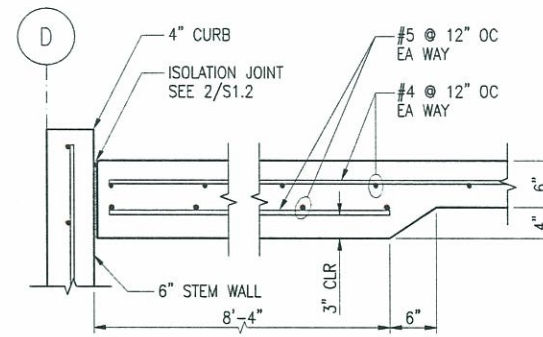
NOTES:
1. CENTER CMP UNDER BUILDING COLUMNS.
2. PUSH CMP INTO SOIL DURING EXCAVATION TO PROTECT WSB FOUNDATION.
3. COMPACT SOIL AT BOTTOM OF HOLE.

2 SECTION AT CSB COLUMNS
S2.1 | S3.2 1"=1'-0" SB013-DETL-0038.dwg



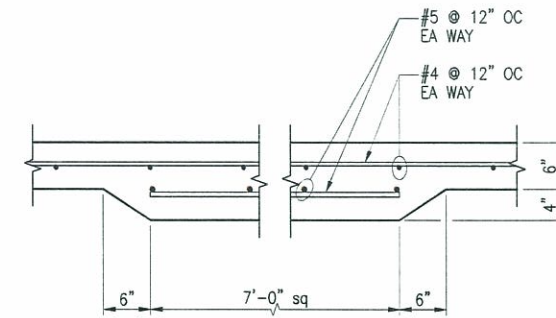
NOTES:
1. SLAB REINFORCING NOT SHOWN FOR CLARITY.

6 PLAN AT CSB COLUMNS
S3.2 | S3.2 1"=1'-0" SB013-DETL-0037.dwg



NOTES:
1. USE 3/4"Øx8" EMBED TYPE 304-SS DICAS WITH EPOXY ADHESIVE (SIMPSON SET-XP OR EQUAL) TO ANCHOR TANK TO CONCRETE FOUNDATION.

3 THICKENED SLAB AT MIX TANK FOUNDATION
S2.1 | S3.2 1"=1'-0" SB013-DETL-0040.dwg



NOTES:
1. USE 3/4"Øx8" EMBED TYPE 304-SS DICAS WITH EPOXY ADHESIVE (SIMPSON SET-XP OR EQUAL) TO ANCHOR UNLOADING FRAME TO CONCRETE FOUNDATION. ANCHOR AND EMBED PER EQUIPMENT MANUFACTURER.

4 THICKENED SLAB AT BULK BAG UNLOADING FRAME
S2.1 | S3.2 1"=1'-0" SB013-DETL-0041.dwg

REVISIONS	DATE	BY

PLANS DEVELOPED BY:
PDC, INC.

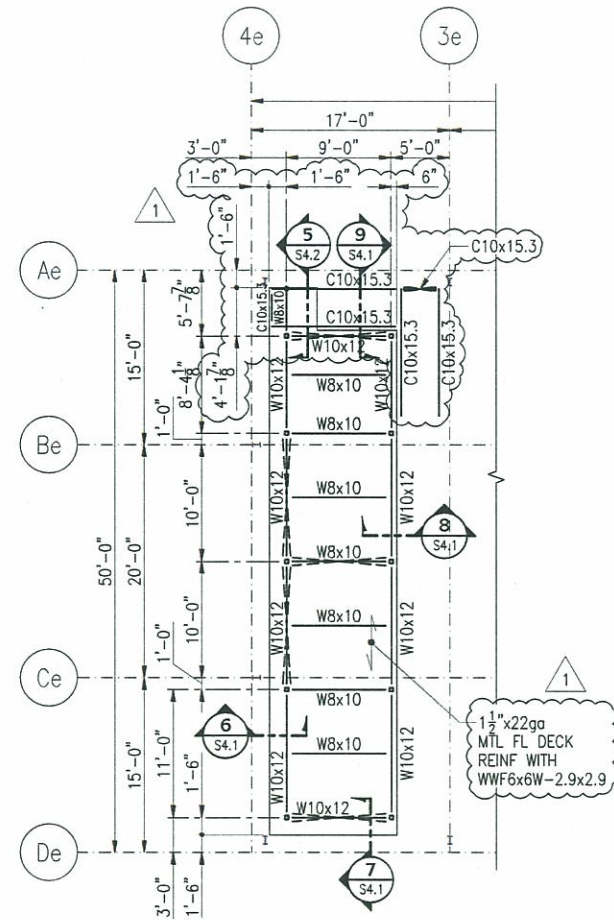
CONSULTANT:

PROJECT :
**DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA**

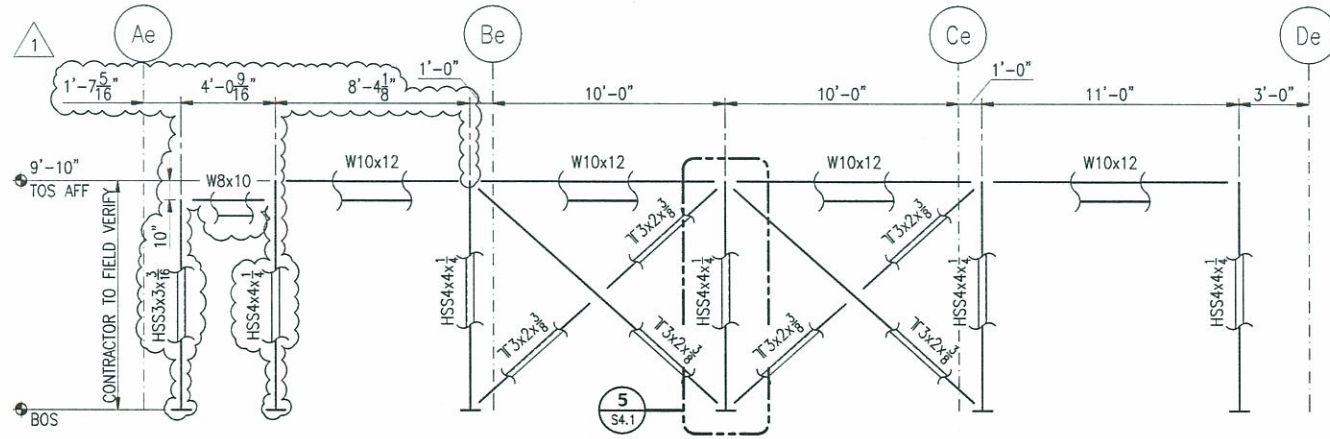
SHEET TITLE :
CONCRETE DETAILS

DESIGN PWR
DRAWN DJM
CHECKED JUL
DATE JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER
S3.2

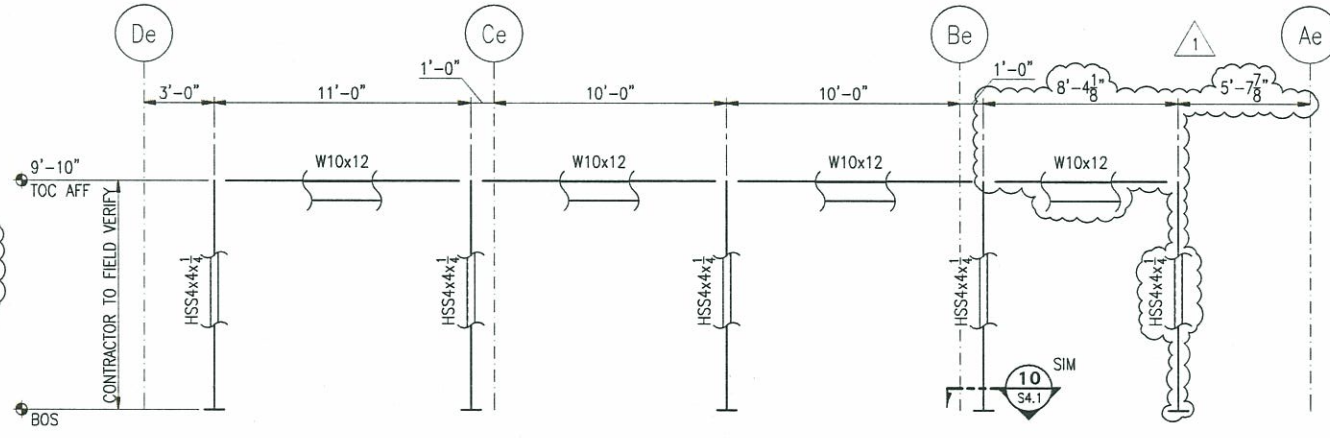
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DATE: 10/30/2012 BY: DJM



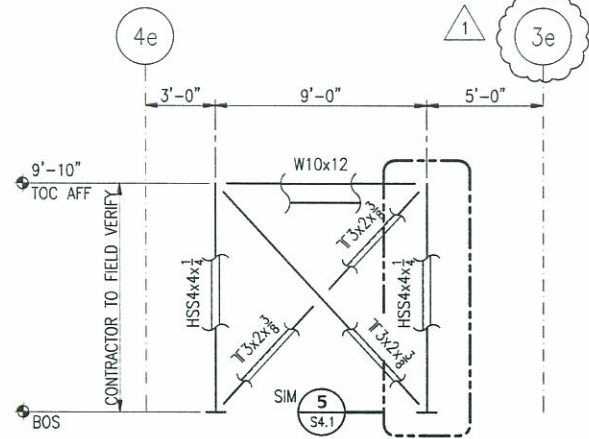
3 MEZZANINE FRAMING PLAN
S2.1 | S4.1 1"=1'-0" Struct-Detl-048.dwt



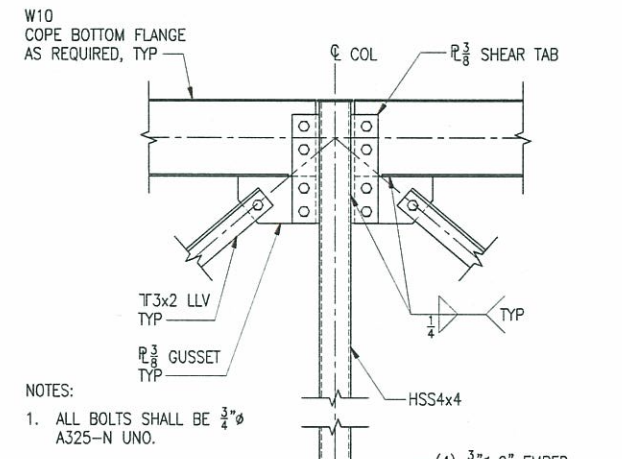
1 MEZZANINE FRAMING ELEVATION AT SOUTH SIDE
S4.1 | S4.1 1/4"=1'-0" Struct-Detl-048.dwt



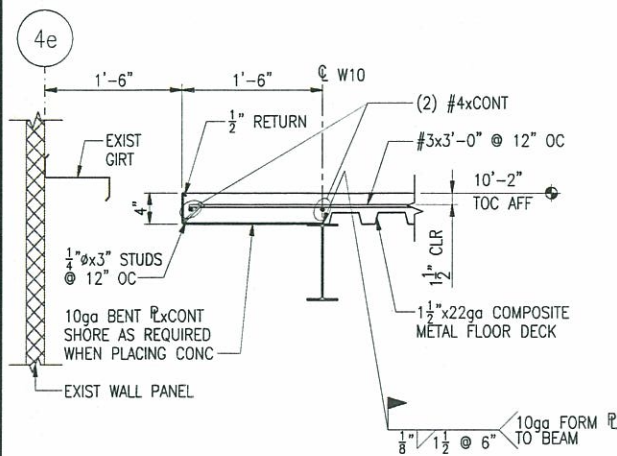
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S4.1 | S4.1 1/4"=1'-0" Struct-Detl-048.dwt



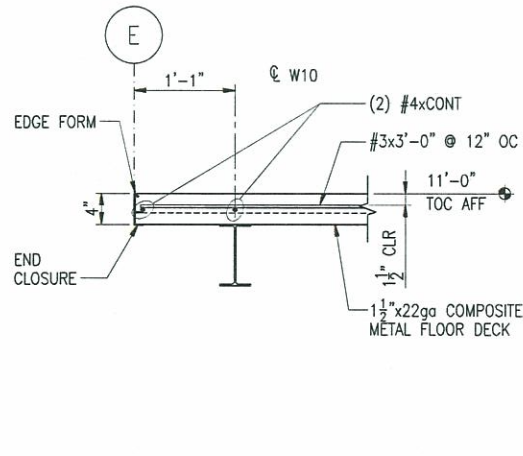
2 MEZZANINE FRAMING ELEVATION AT ENDS AND CENTER
S4.1 | S4.1 1/4"=1'-0" Struct-Detl-048.dwt



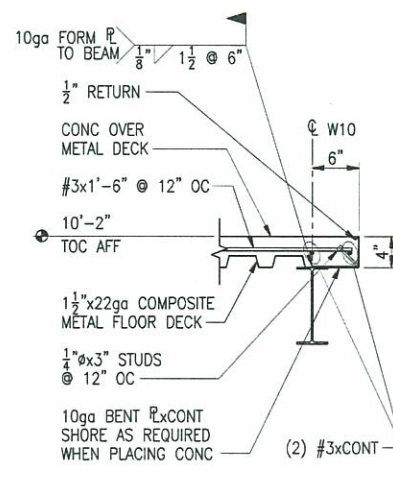
5 MEZZANINE COLUMN AND FOOTING
S4.1 | S4.1 1"=1'-0" Struct-Detl-012.dwt



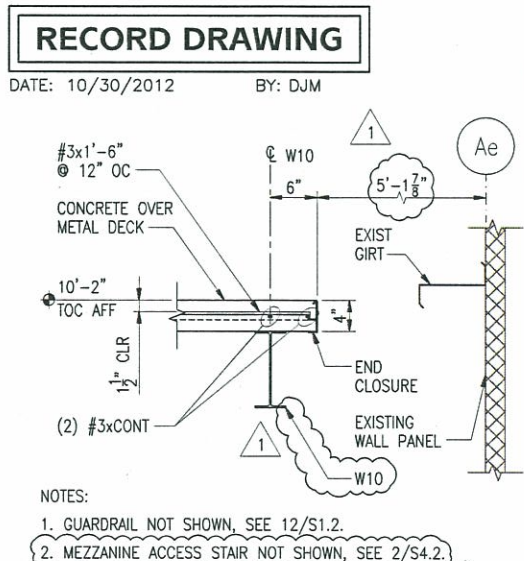
6 SECTION
S4.1 | S4.1 1"=1'-0" Struct-Detl-012.dwt



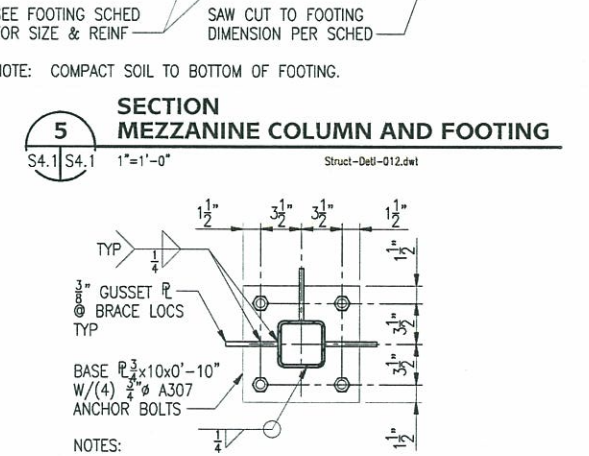
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S4.1 | S10 1"=1'-0" Struct-Detl-012.dwt



8 SECTION
S4.1 | S4.1 1"=1'-0" Struct-Detl-012.dwt



9 SECTION
S4.1 | S4.1 1"=1'-0" Struct-Detl-012.dwt



10 BASE PLATE DETAIL
S4.1 | S4.1 1-1/2"=1'-0" Struct-Detl-008.dwt

RECORD DRAWING
DATE: 10/30/2012 BY: DJM

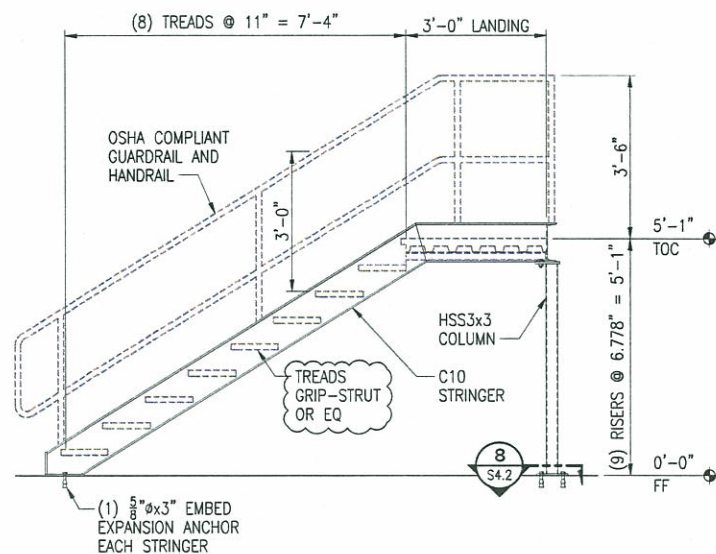
REVISIONS	DATE	BY
MEZZANINE ACCESS STAIR	02/26/10	PWR

PLANS DEVELOPED BY:
PDC, INC.
CONSULTANT:

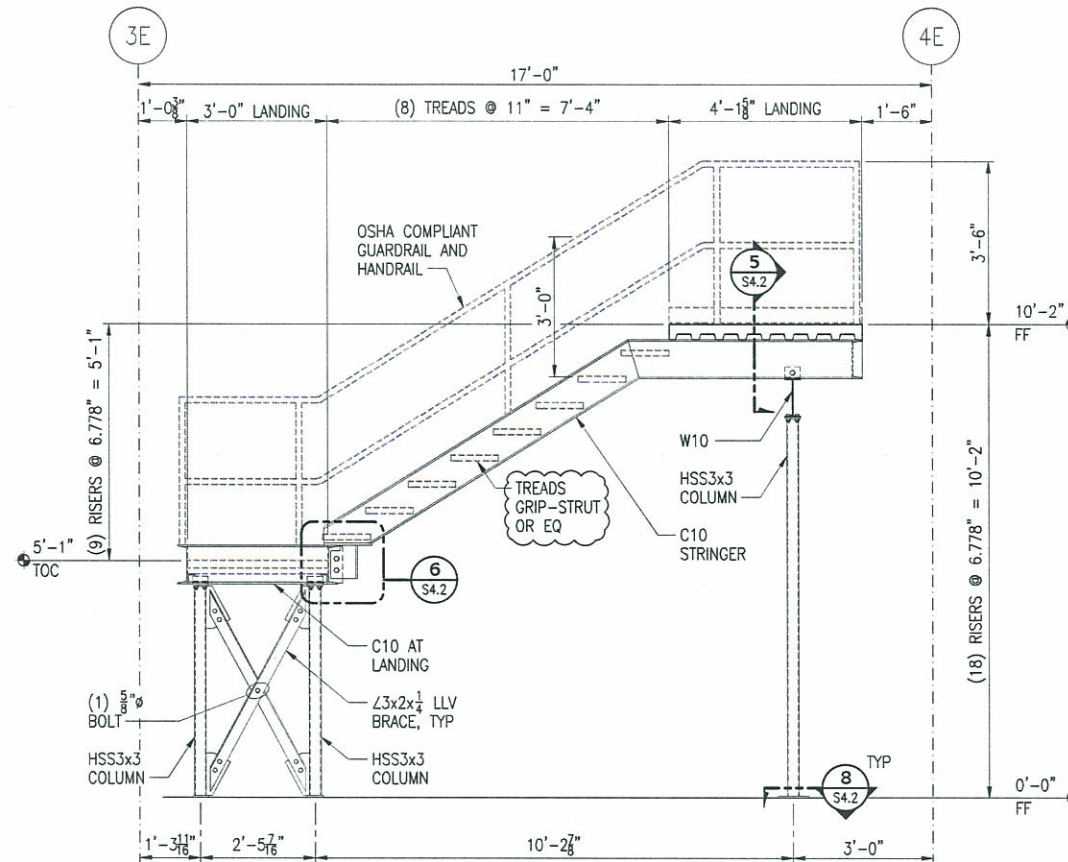
PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
MEZZANINE FRAMING
PLAN, ELEVATIONS
AND DETAILS

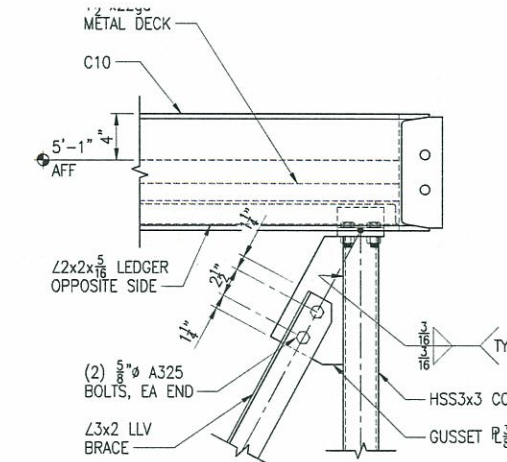
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DRAWN: DJM
CHECKED: JUL
DATE: JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER
S4.1



1 STAIR FRAMING ELEVATION AT NORTH SIDE
S4.2 1/2"=1'-0" SB013-SDTL-0001.dwg

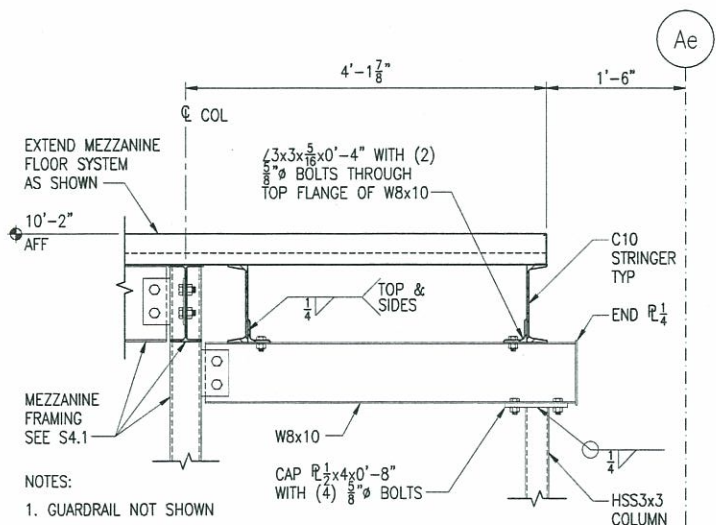


2 STAIR FRAMING ELEVATION AT WEST SIDE
S4.2 1/2"=1'-0" SB013-SDTL-0002.dwg

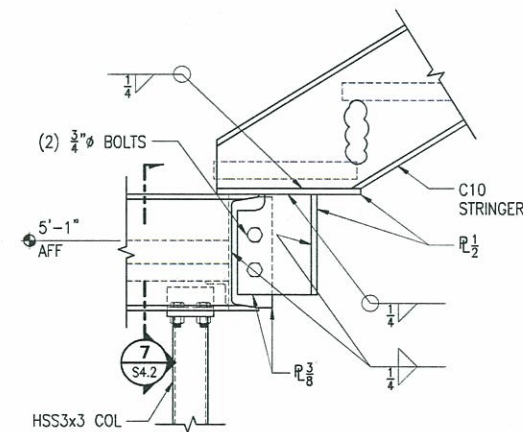


- NOTES:
- CONDITION SIMILAR AT TOP AND BOTTOM CONNECTION.
 - C10 STRINGER UP TO MEZZANINE NOT SHOWN FOR CLARITY. SEE 6/S4.2 FOR ADDITIONAL INFORMATION.

3 DETAIL BRACE CONNECTION
S4.2 S4.2 1 1/2"=1'-0" SB013-SDTL-0007.dwg

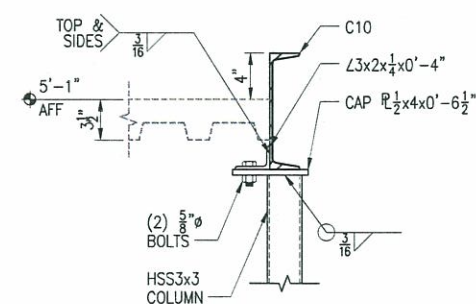


5 DETAIL
S4.1 S4.2 1"=1'-0" SB013-SDTL-0006.dwg

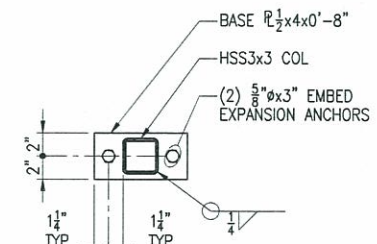


- NOTES:
- BRACE CONNECTION NOT SHOWN FOR CLARITY. SEE 4/S4.2 FOR ADDITIONAL INFORMATION.

6 STRINGER ATTACHMENT TO INTERMEDIATE LANDING
S4.2 S4.2 1 1/2"=1'-0" SB013-SDTL-0003.dwg



7 COLUMN ATTACHMENT TO INTERMEDIATE LANDING
S4.2 S4.2 1 1/2"=1'-0" SB013-SDTL-0004.dwg



- NOTES:
- EXPANSION ANCHORS TO BE DRILLED INTO EXISTING FLOOR SLAB.

8 DETAIL BASE PLATE AT STAIR COLUMNS
S4.2 S4.2 1 1/2"=1'-0" SB013-SDTL-0005.dwg

RECORD DRAWING

DATE: 10/30/2012 BY: DJM

PROJECT :
**DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA**

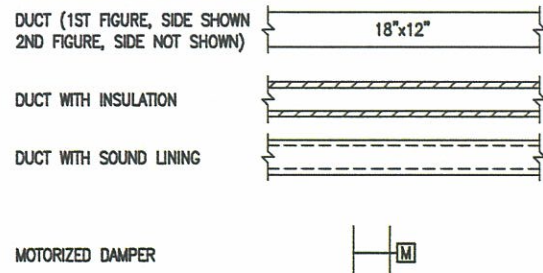
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**MEZZANINE ACCESS
STAIR ELEVATIONS
AND DETAILS**

DESIGN PWR
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CHECKED JLL
DATE JAN 26, 2009

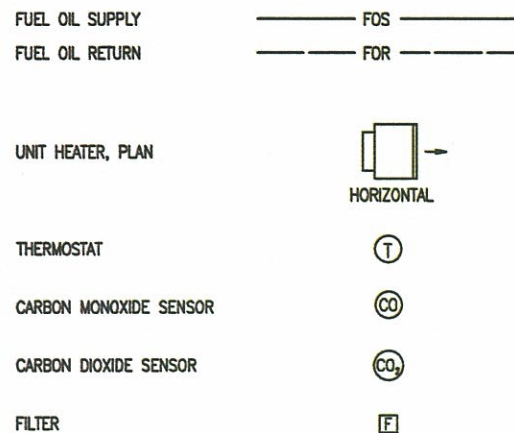
STATE PROJECT No.
50928

SHEET NUMBER
S4.2

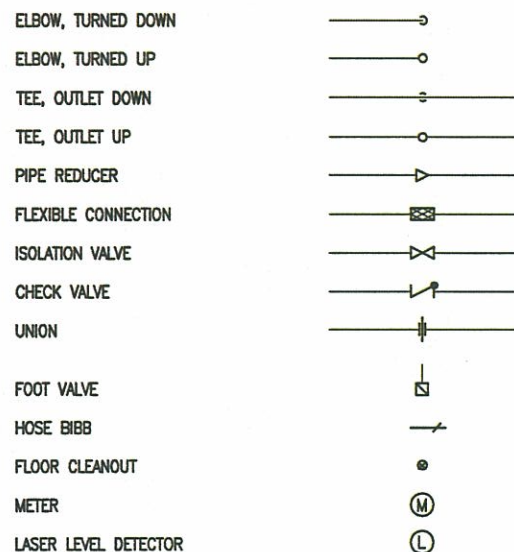
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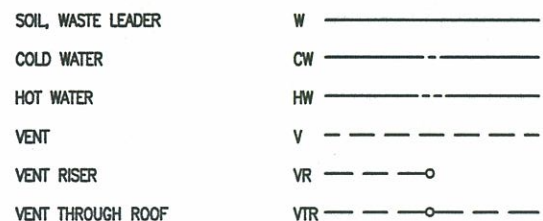
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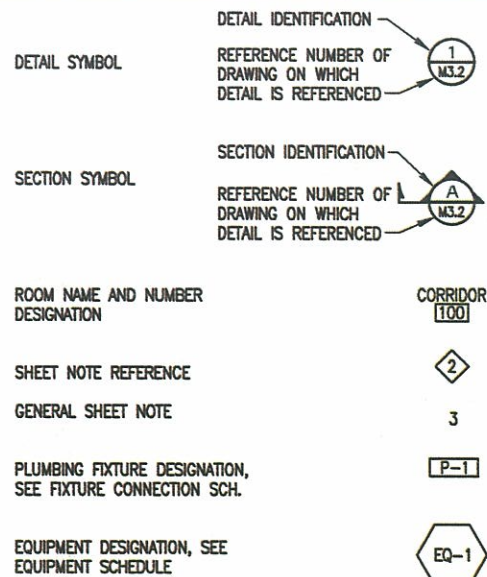
PIPE FITTINGS AND VALVES



PLUMBING



GENERAL



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
AUTO	AUTOMATIC
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CLR	CLEAR
CU	COPPER
CW	COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DIA	DIAMETER
DIV	DIVISION
EA	EXHAUST AIR
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPT	FEMALE PIPE THREAD
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIB
HP	HORSE POWER
HW	HOT WATER
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCHES
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
NPW	NON-POTABLE WATER
OSA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
PW	POTABLE WATER
REQ'D	REQUIRED
RM	ROOM
SA	SUPPLY AIR
SCH	SCHEDULE
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W	WASTE
W	WIDTH
WC	WATER COLUMN

ITEMS, ADDENDUM 2-

PER THE TANK SCHEDULE SHOWN ON DWG. M1.1 THE FUEL TANKS ARE AS FOLLOWS:

FT-1 IS A NEW 2K GAL HEATING FUEL STORAGE TANK TO BE LOCATED APPROX. 5 FT NORTH OF THE NEW CHEMICAL STORAGE BLDG ADDN. NOTE THAT THE EXISTING WARM STORAGE BLDG CURRENTLY SHARES A HEATING FUEL STORAGE TANK WITH THE EXISTING SAND STORAGE BLDG, BUT THIS WILL BE RECONFIGURED TO HAVE THE NEW FT-1 SUPPLY HEATING FUEL TO THE EXIST WARM STORAGE BLDG AND THE NEW CHEMICAL STORAGE BLDG ADDITION. NOTE THAT THIS TANK IS INCORRECTLY LABELED AS BEING RELOCATED ON THE ELECTRICAL SITE PLAN, E1.1. THIS IS CORRECTED IN THIS ADDENDUM. THIS IS A NEW TANK PROVIDED BY THE CONTRACTOR.

FT-2 IS A NEW 2K GAL LOW SULPHUR DIESEL FUEL DISPENSING TANK TO BE LOCATED NORTH AND ADJACENT TO FT-1.

FT-3 IS AN EXISTING 4K GAL DIESEL FUEL DISPENSING TANK TO BE RELOCATED FROM A TEMPORARY SITE WITHIN THE ADOT FENCED MAINTENANCE YARD TO A LOCATION NORTH OF THE NEW CHEMICAL STORAGE BLDG ADDITION, EAST OF TANK FT-2. NOTE THAT THIS TANK IS INCORRECTLY LABELED AS A HEATING FUEL TANK ON THE ELECTRICAL SITE PLAN, E1.1. THIS IS BEING CORRECTED IN THIS ADDENDUM. REFERENCE SECTION 15190-2.18 FOR ADDITIONAL DESCRIPTION OF WORK ASSOCIATED WITH THIS TANK. SEE ADDENDUM ITEM 7, 8, AND 9

EQUIPMENT LIST

UH-1	OIL-FIRED UNIT HEATER CAPACITY: 231,000 BTU/HR INPUT, 185,000 BTU/HR OUTPUT, 2,400 CFM @ 70°F, 51' THROW, 1.65 GPH FUEL CONSUMPTION. ELECTRICAL: 1/3 HP, 115V/60HZ/1PH PROVIDE: FACTORY ASSEMBLED, WIRED AND FIRE TESTED UNIT. BASIS OF DESIGN: MODINE POR185
DT-1	DAY TANK CAPACITY: 100 GAL DAY TANK, 2 GPM BOOSTER PUMP ELECTRICAL: 1/3 HP, 115V/60HZ/1PH PROVIDE: PACKAGED FACTORY UNIT WITH AUTOMATIC SELF FILLING STEEL DAY TANK AND DUPLEX TRANSFER PUMPS AT DAY TANK BASIS OF DESIGN: SIMPLEX SST SERIES
EF-1	EXHAUST FAN CAPACITY: 5,750 CFM, 1" WC ELECTRICAL: 2 HP, 208V/60HZ/3PH PROVIDE: ALL ALUMINUM WHEEL, 12 GAUGE STEEL HOUSING WITH STANDARD INSPECTION DOOR, BAKED POWDER PAINT FINISH, WELDED STEEL CONSTRUCTION, FLANGED INLET AND OUTLET. 757 RPM BASIS OF DESIGN: LOREN COOK 270TCNB
CF-1	CEILING FAN CAPACITY: 275 RPM, 27,500 CFM ELECTRICAL: 110 WATTS, 120V/60HZ/1PH PROVIDE: PROPELLER TYPE CEILING FAN WITH 56" BLADE SWEEP AND 3,800 SQUARE FEET AREA COVERAGE BASIS OF DESIGN: LEADING EDGE 5600-1
OWS-1	ABOVE GROUND, COALESCING PLATE OIL/WATER SEPARATOR CAPACITY: 10 GPM FLOW @ 10 PPM TOTAL SUSPENDED HYDROCARBONS IN OUTLET EFFLUENT. 200 GALLON NOMINAL CAPACITY. 80 GALLON INTEGRAL WASTE OIL STORAGE. ELECTRICAL: 120V/60HZ/1PH PROVIDE: FACTORY CONTROL PANEL, INTRINSICALLY SAFE OIL LEVEL SENSORS AND ALARMS. BASIS OF DESIGN: HIGHLAND TANK MODEL #R-HTC-200
AC-1	AIR COMPRESSOR CAPACITY: 15.9 CFM @ 175 PSIG ELECTRICAL: 5 HP, 208V/60HZ/3PH PROVIDE: 80-GALLON VERTICAL RECEIVER WITH EPOXY PAINT INSIDE AND OUTSIDE, SEISMIC BRACING, PRESSURE REGULATOR, 40 MICRON FILTER. BASIS OF DESIGN: INGERSOLL-RAND MODEL #C80VMA CHAMPION SIMPLEX MDL: SV80E. 5HP 80 GAL VERTICAL RECEIVER PER ADDENDUM #1 & #2
WH-1	WATER HEATER CAPACITY: 90° TEMPERATURE RISE AT 8 GPM ELECTRICAL: 1,650 W, 120V/60HZ/1PH PROVIDE: COMPACT ELECTRIC WATER HEATER WITH 10 GALLONS STORAGE WITH SIDE MOUNTED PLUMBING AND ELECTRICAL CONNECTIONS. BASIS OF DESIGN: AO SMITH PROMAX COMPACT EJCS-10

FUEL TANK SCHEDULE

ITEM	SERVICE	MEDIA	CAPACITY (GAL)	CONSTRUCTION	SIZE	BASIS OF DESIGN	NOTE
FT-1	HEATING FUEL STORAGE	#2 DIESEL	2,000	DOUBLE WALL, COATED STEEL	157"x70"	ANCHORAGE TANK	
FT-2	DISPENSING TANK	LOW SULPHUR DIESEL	2,000	DOUBLE WALL, COATED STEEL	157"x70"	ANCHORAGE TANK	
FT-3	(E) DISPENSING TANK	DIESEL	4,000	DOUBLE WALL, COATED STEEL	216"x82"	ANCHORAGE TANK	

NOTES:
1. TANK SHALL BE FIREGUARD TYPE WITH TWO HOUR FIRE RATED INSULATION.

CHEMICAL TANK SCHEDULE

ITEM	SERVICE	MEDIA	CAPACITY (GAL)	CONSTRUCTION	SIZE	BASIS OF DESIGN	NOTE
T-1	E-36 STORAGE	POTASSIUM ACETATE	20,000	DOUBLE WALL, COATED STEEL	35"x121"	ACETANK SKIDLITE U2S5	
T-2	UREA SOLUTION STORAGE	UREA WATER SOLUTION	12,000	DOUBLE WALL, COATED STEEL	121"	ACETANK SKIDLITE U2S5	[2]
T-3	UREA MIXING TANK	UREA WATER SOLUTION	2,300	DOUBLE WALL, COATED STEEL	6'-6"x7'	VERTICAL TANK	[1]

NOTES:
[1] STAINLESS STEEL TANK.
[2] TANK SHALL BE THE SAME DIAMETER AS TANK T-1.

PUMP SCHEDULE

ITEM	SERVICE	CAPACITY (GPM)	HEAD (FT)	MAX RPM	FLUID	TYPE	ELECTRICAL DATA				BASIS OF DESIGN	NOTE
							HP	V	PH	HZ		
MP-1	UREA MIXING / FILL PUMP	400	25	2400	UREA WATER SOLUTION	OPEN IMPELLER	10	208	3	60	GOULDS 3X3-10	[1]
SP-1	ONLY WATER SUMP PUMP	5	10	1750	OILY WATER	BASE MOUNT	1/2	120	1	60	MOYNO MODEL 500 SERIES 332, MOUNT 18" ABOVE FINISHED FLOOR ON STAND	

NOTES:
[1] STAINLESS STEEL, OPEN IMPELLER, SOLIDS HANDLING PUMP.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	DESCRIPTION	HW	CW	TRAP	WASTE	VENT	COMMENTS
P-1	SERVICE SINK	1/2"	1/2"	3"	3"	1-1/2"	WITH STAINLESS DRAINBOARD
P-2	WASHDOWN SERVICE BASIN	1/2"	1/2"	3"	3"	1-1/2"	
P-3	EMERGENCY EYE WASH	-	-	-	-	-	PORTABLE WITH 15 GAL TANK
HB-1	INTERIOR SPACE HOSE BIBB	-	3/4"	-	-	-	
FD-1	FLOOR DRAIN	-	-	3"	3"	2"	PROVIDE 1/2" TRAP PRIMER

RECORD DRAWING

DATE: 10/30/2012 BY: JDS

ADDENDUM 1 & 2

F&W 10/09

PLANS DEVELOPED BY:
PDC, INC.

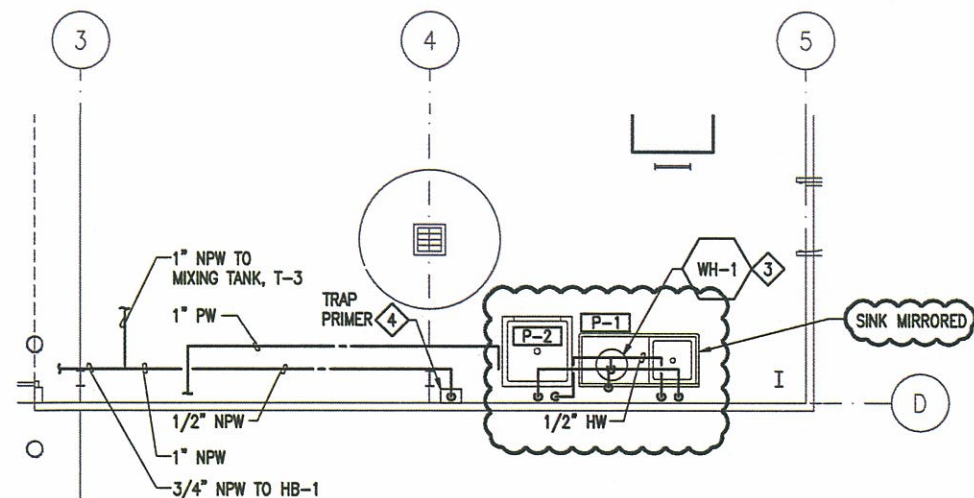
CONSULTANT:

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

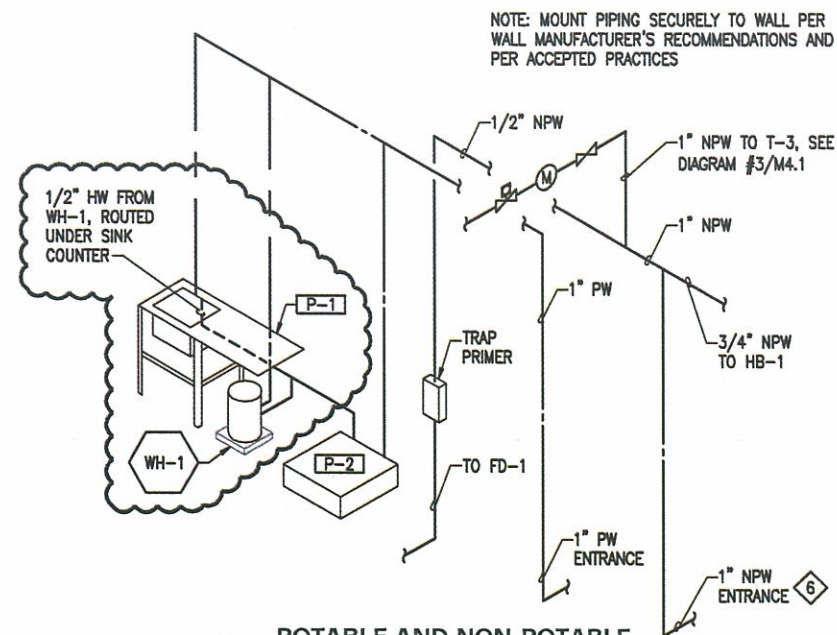
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MECHANICAL LEGEND
& EQUIPMENT LIST

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DATE JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

M1.1



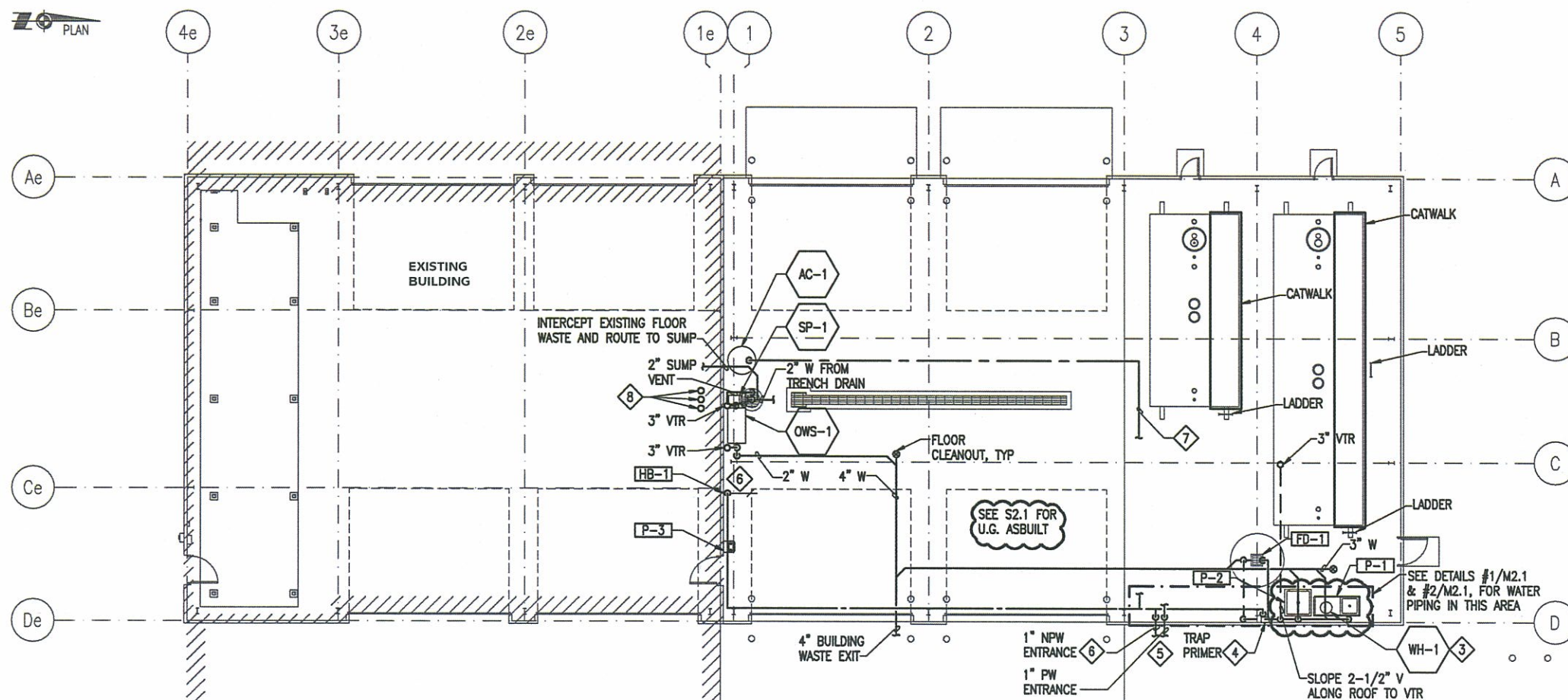
1 LARGE SCALE PLUMBING WATER PIPING
 1/2" M2.1
 4 2 0 4 8 12 FEET



2 POTABLE AND NON-POTABLE WATER ISOMETRIC DIAGRAM
 1/2" M2.1 NOT TO SCALE

SHEET NOTES

1. REFER TO SHEET M1.1 FOR FIXTURE SCHEDULE AND EQUIPMENT LIST.
2. REFER TO SHEET M5.1 FOR PLUMBING DETAILS.
3. LOCATE WATER HEATER UNDER SINK DRAINBOARD / COUNTER ON 3-1/2" HOUSEKEEPING PAD.
4. SEE #6/M5.1 FOR TRAP PRIMER DETAIL.
5. SEE CIVIL DRAWINGS FOR CONTINUATION. FOR CONNECTION AT EXISTING AIRPORT RESCUE AND FIRE FIGHTING (ARFF) BUILDING, REFER TO SPECIFICATION SECTION 15140 3.04.
6. LABEL DISTRIBUTION PIPING FROM NON-POTABLE WELL. POST SIGN AT OUTLET FIXTURE WHICH READS, "CAUTION: NON-POTABLE WATER. DO NOT DRINK." SIGN SHALL HAVE YELLOW BACKGROUND AND BLACK LETTERING.
7. CA TO UREA BULK BAG UNLOADING SYSTEM. CONTRACTOR TO COORDINATE CA PIPE SIZE WITH BULK BAG UNLOADING SYSTEM REQUIREMENTS.
8. INTERCEPT EXISTING PVC VENT PIPE, WHICH EXITS EXISTING BUILDING WALL. CUT VENT PIPE IN EXISTING BUILDING INTERIOR, DEMOLISH PIPING THROUGH WALL, AND SEAL WALL PENETRATION WEATHER TIGHT. ADD NEW VENT PIPE TO MATCH EXISTING AND PENETRATE VENT PIPE THROUGH ROOF. SEAL ROOF WEATHER TIGHT. SEE DETAIL #8/M5.1.



3 PLUMBING PLAN
 1/2" M2.1
 8 4 0 8 16 24 FEET

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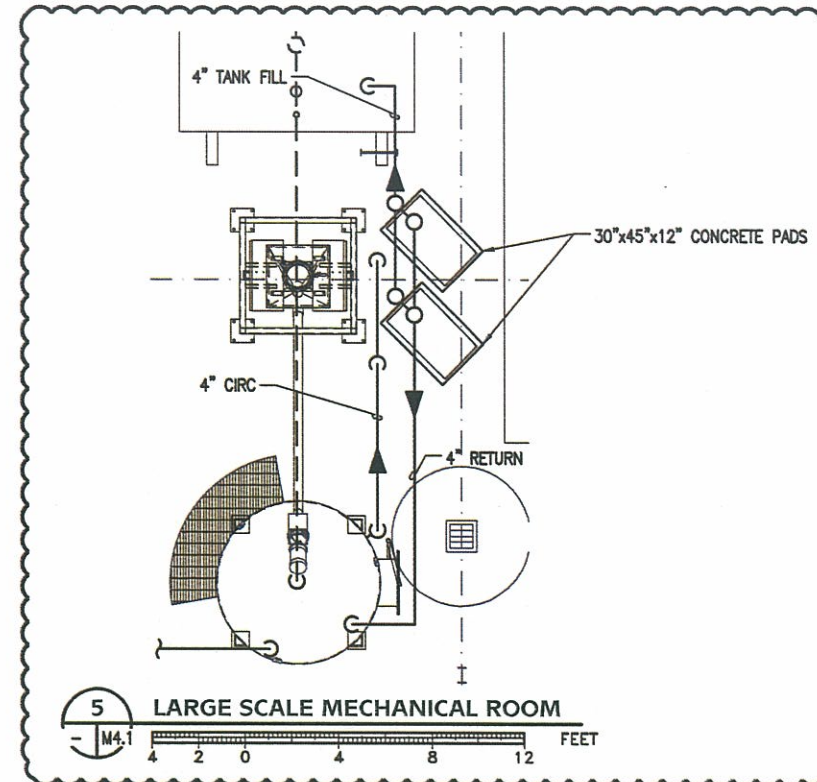
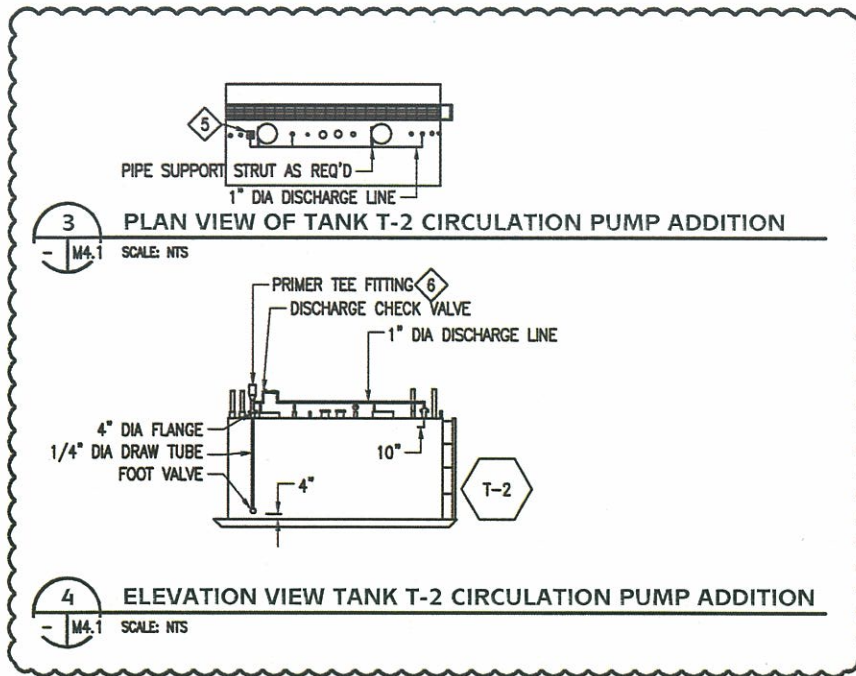
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PROJECT:
 DILLINGHAM AIRPORT
 CHEMICAL STORAGE BUILDING
 ALASKA DOT & PUBLIC FACILITIES
 AIP 3-02-0078-011-2009
 DILLINGHAM, ALASKA

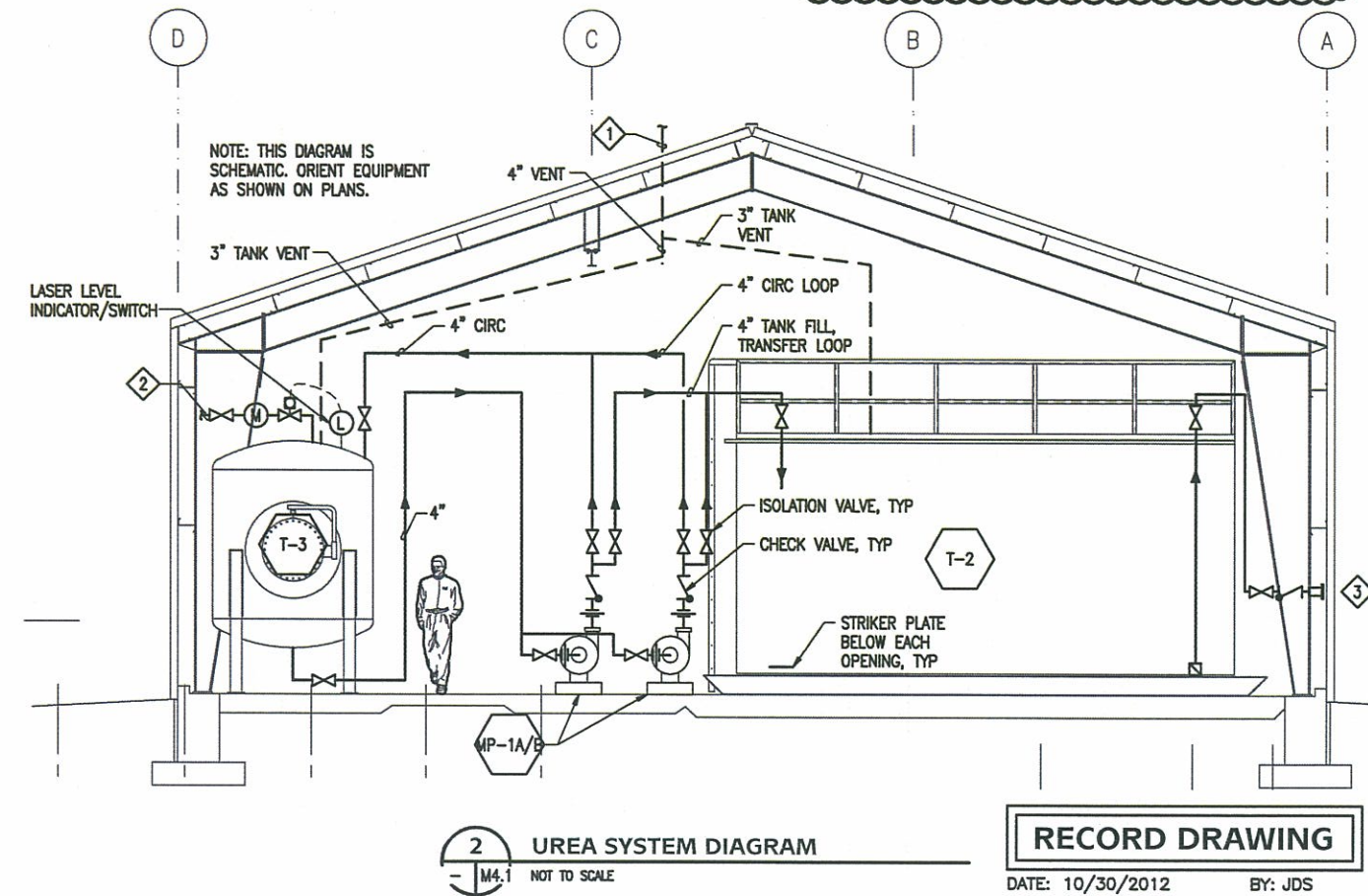
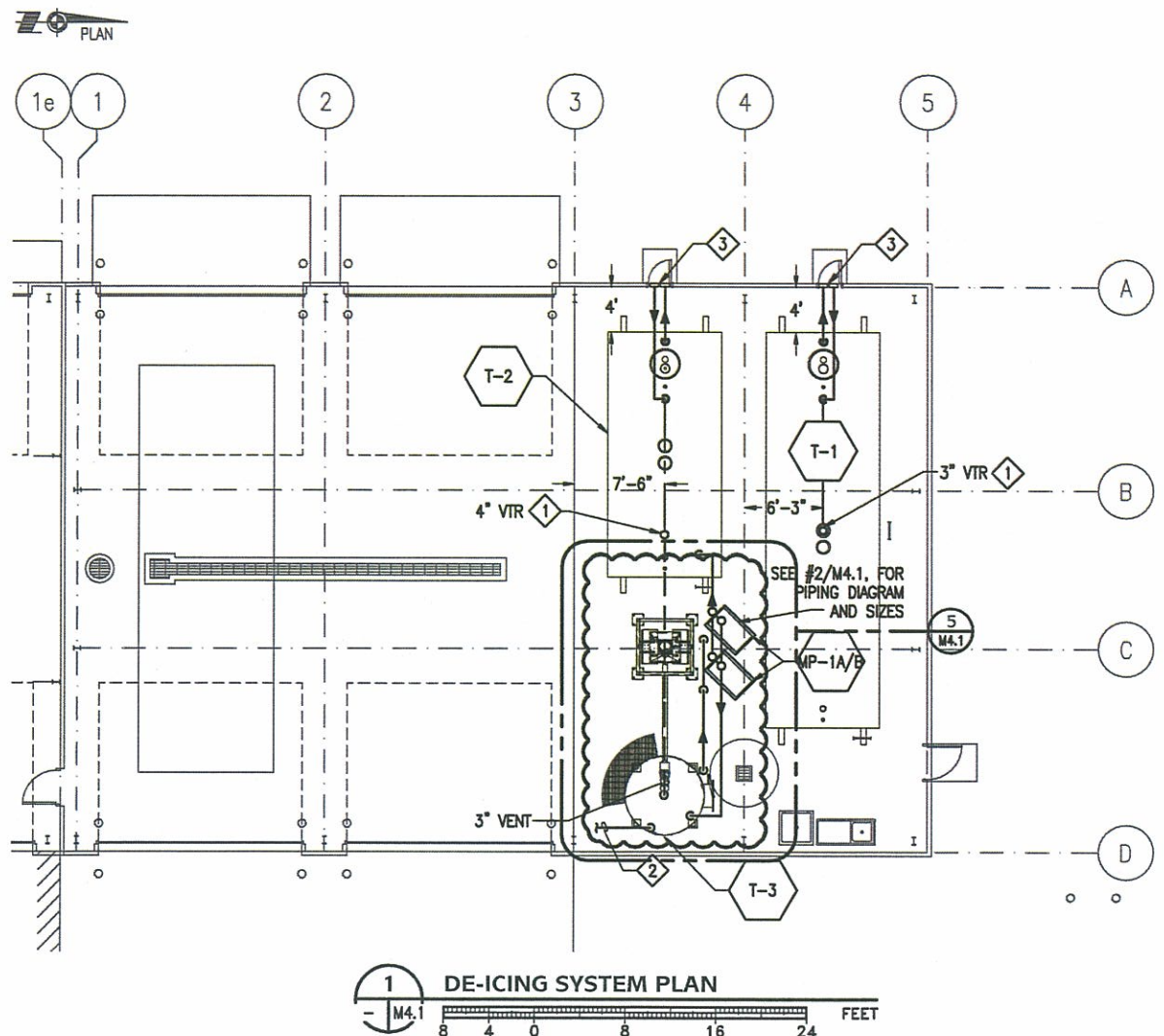
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PLUMBING PLAN

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 SHEET NUMBER

M2.1

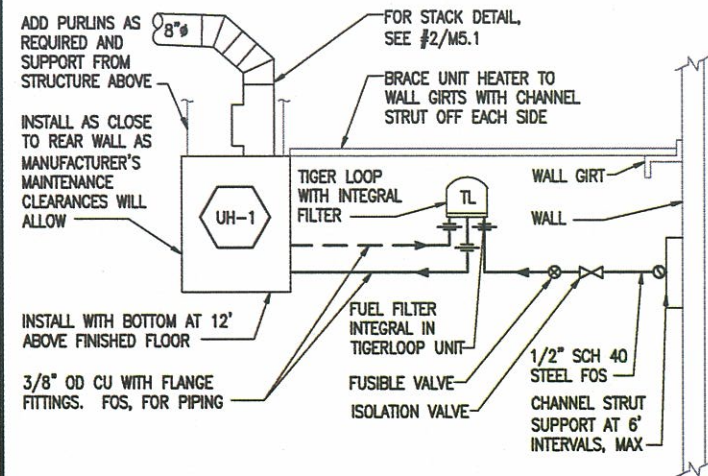


- SHEET NOTES**
- 1 VENT THROUGH ROOF. SEE DETAIL #8/M5.1
 - 2 1" NON-POTABLE WATER SUPPLY WITH WATER METER AND SOLENOID SHUT OFF VALVE. SOLENOID VALVE IS CONTROLLED BY THE LASER LEVEL SENSOR.
 - 3 PROVIDE 3" HOSE CONNECTION FOR TRUCK FILL AND 3" HOSE CONNECTION FOR STORAGE TANK FILL, WITH CONNECTIONS ACCESSIBLE THROUGH DOOR. CONNECTION SHALL BE DRY BREAK COUPLING ADAPTER WITH ISOLATION VALVE AND CHECK VALVE. ISOLATION VALVE SHALL BE ACCESSIBLE THROUGH DOOR. LABEL EACH FILL CONNECTION WITH A SIGN INDICATING DE-ICING FLUID TYPE AND EITHER TRUCK FILL OR STORAGE TANK FILL. SIGN SHALL BE VISIBLE FROM BUILDING EXTERIOR THROUGH ACCESS DOOR.
 - 4 ALL DE-ICING SYSTEMS PIPING SHALL BE STAINLESS STEEL.
 - 5 PROVIDE VERTICAL IMMERSIBLE PUMP RATED FOR CHEMICAL DUTY, W/ NON-METALLIC CPVC HOUSING CONSTRUCTION, 1-1/4" DIA INTAKE AND 1" DIA DISCHARGE. INCLUDE DRAW TUBE AND FOOT VALVE OF STAINLESS STEEL CONSTRUCTION, AND FLANGE ADAPTORS AS REQUIRED. PUMP SHALL BE CAPABLE OF MOVING 25 GPM OF UREA SOLUTION AT A TEMPERATURE OF 45 DEG F AND 15 FT W.C. MOTOR SHALL BE 115VAC, 1-PHASE, 60 HZ, 1/2 HP, TEFC, AND RATED FOR CONTINUOUS SERVICE. FLANGE ADAPTOR SHALL BE CAPABLE OF SUPPORTING MOTOR, DRAW TUBE, AND FOOT VALVE. DRAW TUBE W/ FOOT VALVE SHALL HAVE AN IMMERSION DEPTH AS INDICATED IN SKETCH. DISCHARGE PIPING SHALL BE STAINLESS STEEL AND SHALL DISCHARGE WITHIN 10" OF THE TOP OF TANK AT EXISTING 4" DIA FLANGED OPENING AS INDICATED IN SKETCH. BASIS OF DESIGN: WEBSTER S-SERIES VERTICAL SEAL-LESS IMMERSIBLE PUMP (MODEL # 1S4GX0008).
 - 6 PROVIDE ELEVATED SECTION OF PUMP DISCHARGE PIPING WITH PRIMING TEE (& THREADED PLUG) ALONG WITH CHECK VALVE. SECTION OF ELEVATED PIPING TO BE APPROXIMATELY 18-INCHES ABOVE CENTER OF PUMP DISCHARGE PORT. BOTH CHECK VALVE AND TEE SHALL BE OF SIMILAR MATERIALS TO EXISTING DISCHARGE PIPING AND ARE COMPATIBLE WITH THE UREA SOLUTION TO BE CIRCULATED WITHIN THIS STORAGE TANK. RECONFIGURE PIPING AND REARRANGE STRUTS SUCH REVISED PIPING AND FITTINGS HAVE ADEQUATE STRUCTURAL SUPPORT.

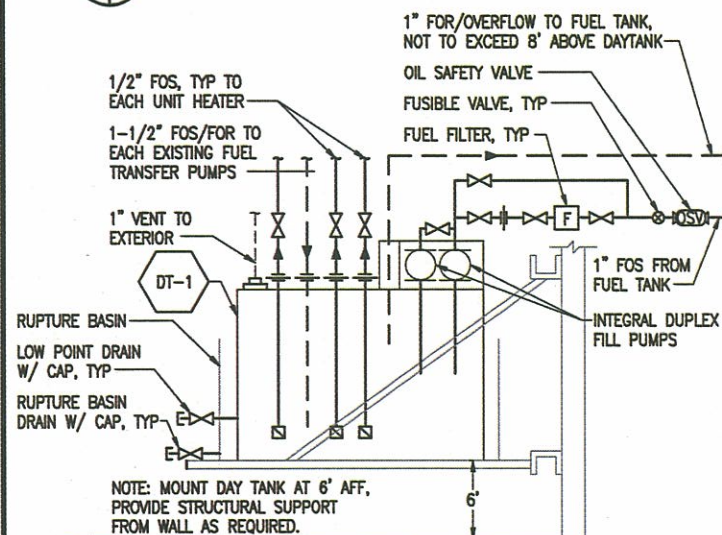


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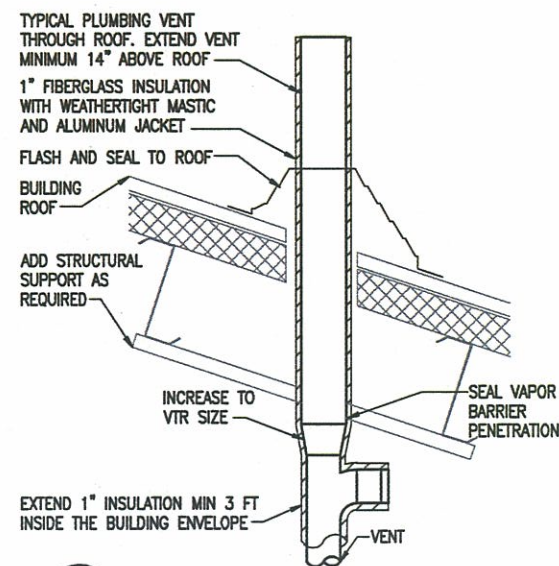
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SHEET TITLE :		DE-ICING SYSTEM PLAN	
DESIGN	REM	DATE	JUNE 26, 2001
DRAWN	REM	STATE PROJECT No.	50928
CHECKED	SJM	SHEET NUMBER	M4.1
PLANS DEVELOPED BY:		PDC, INC.	
CONSULTANT:			
REVISIONS		BY DATE	
ADDENDUM 1 & 2			



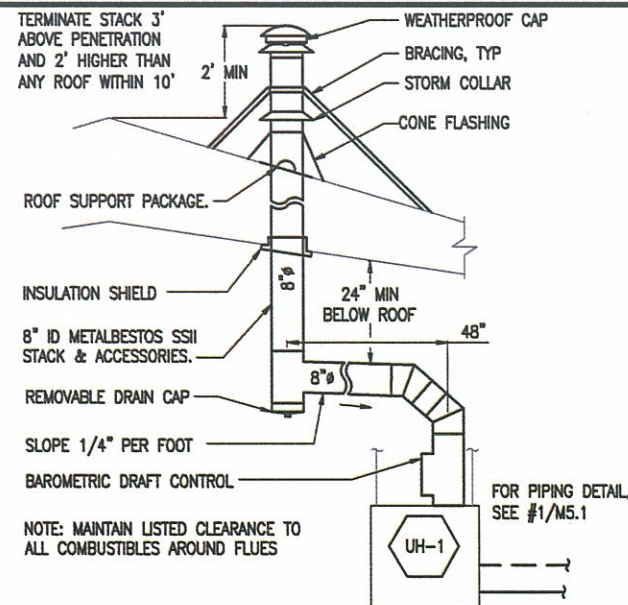
1 UNIT HEATER DETAIL
M3.1/M5.1 NOT TO SCALE



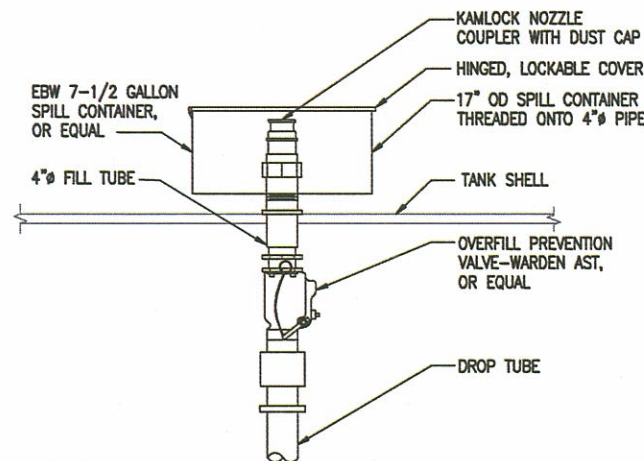
4 DAY TANK DETAIL
M3.1/M5.1 NOT TO SCALE



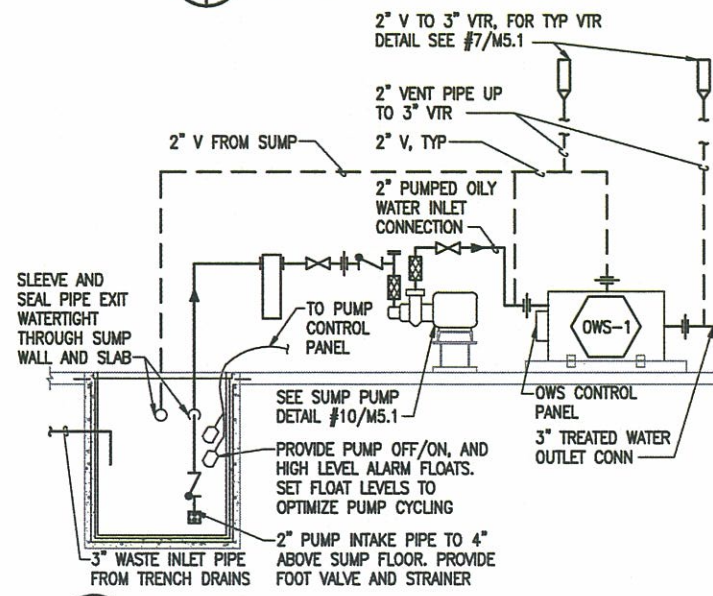
8 PLUMBING ROOF VENT DETAIL
M2.1/M5.1 NOT TO SCALE



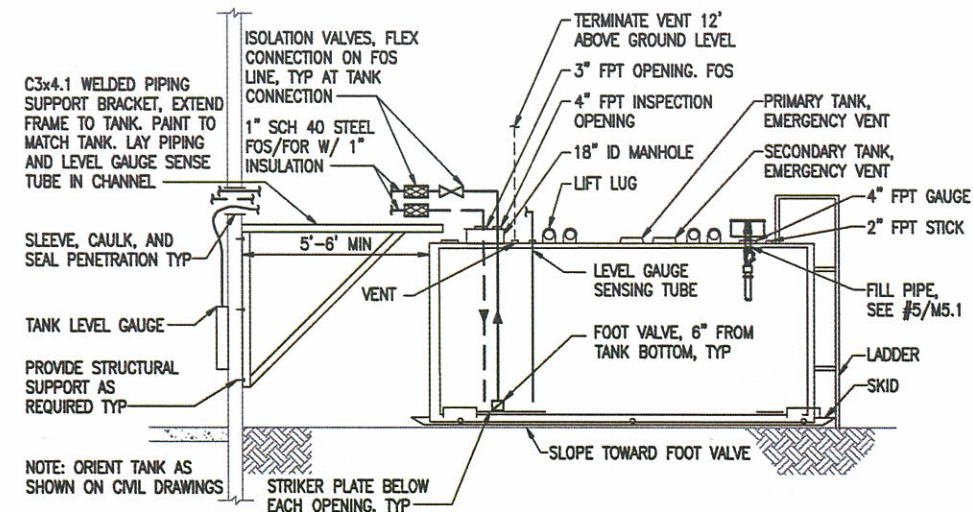
2 UNIT HEATER STACK DETAIL
M3.1/M5.1 NOT TO SCALE



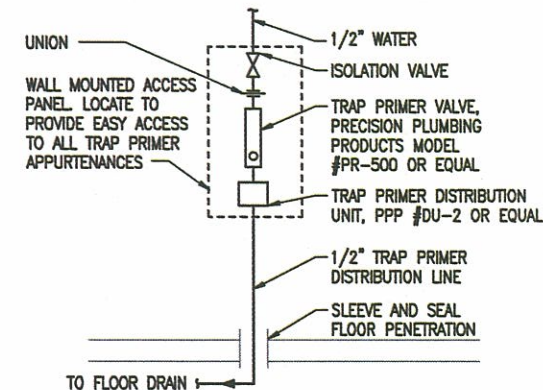
5 FUEL TANK FILL DETAIL
M3.1/M5.1 NOT TO SCALE



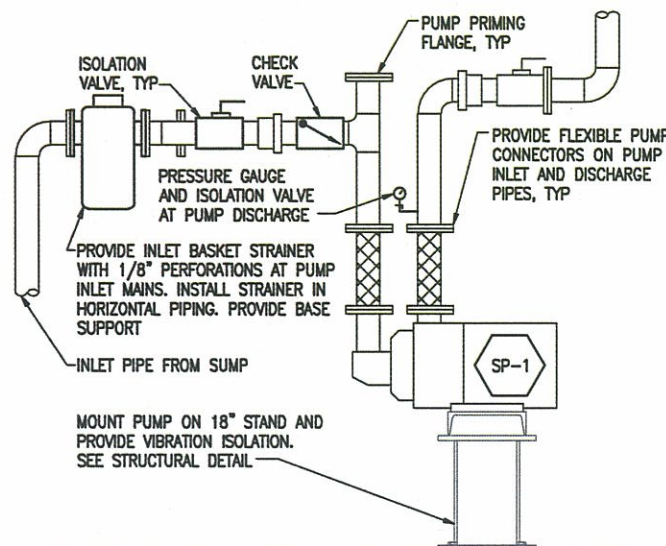
9 OIL WATER SEPARATOR (OWS-1) DETAIL
M2.1/M5.1 NOT TO SCALE



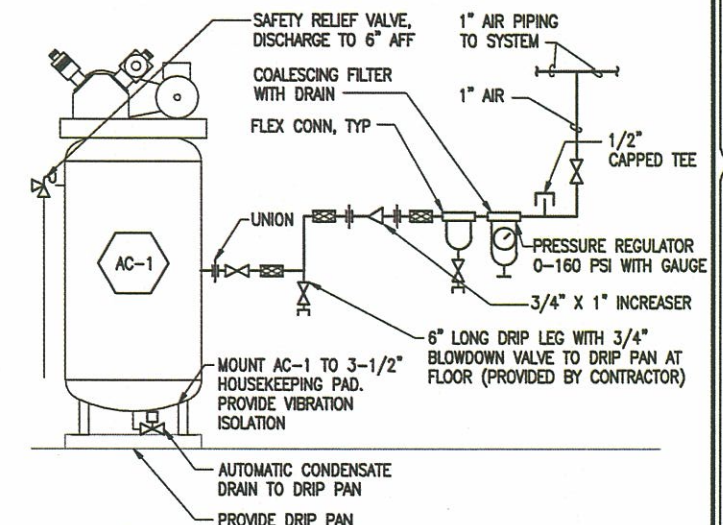
3 HEATING FUEL TANK DETAIL
M3.1/M5.1 NOT TO SCALE



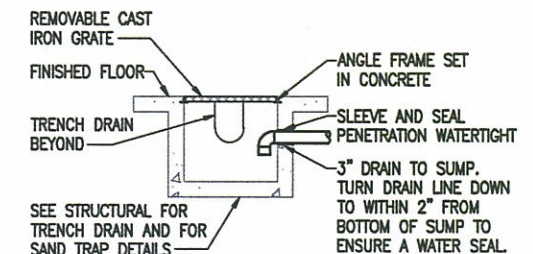
6 TRAP PRIMER DETAIL
M2.1/M5.1 NOT TO SCALE



10 SUMP PUMP (SP-1) DETAIL
M2.1/M5.1 NOT TO SCALE



7 AIR COMPRESSOR DIAGRAM
M2.1/M5.1 NOT TO SCALE



11 SAND TRAP DETAIL
M2.1/M5.1 NOT TO SCALE

RECORD DRAWING

DATE: 10/30/2012 BY: JDS

ADDENDUM 1 & 2

PLANS DEVELOPED BY:
PDC, INC.

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
MECHANICAL DETAILS

DESIGN: REM
DRAWN: REM
CHECKED: SAN
DATE: JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER
M5.1

ABBREVIATIONS	
#	NUMBER
+XX	DIMENSIONED HEIGHT XX INCHES AFF
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPS INTERRUPTING CAPACITY
AMP	AMPERES
APROX	APPROXIMATE
BCU	BARE COPPER WIRE
BLDG	BUILDING
C	CONDUIT
C/L	CENTERLINE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CNDR	CONDUCTOR
COL	COLUMN
CJ	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DWG	DRAWING
EBJ	EQUIPMENT BONDING JUMPER
EGB	EQUIPMENT GROUND BUS
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EST	ESTIMATED
FDN	FOUNDATION
FG	FINISH GRADE
FMC	FLEXIBLE METAL CONDUIT
FU	FUSE
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER (5mA)
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT (30mA)
GND	GROUND OR GROUNDED
HDPE	HIGH-DENSITY POLYETHYLENE
HT	HEAT TRACE
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
L	LINE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE; NFPA 70
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
P	POLE
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT (HOT-DIPPED GALVANIZED)
SEC	SECONDARY
SHT	SHEET (REFER TO DRAWING)
SN	SOLID NEUTRAL
SVD	SERVICE DISCONNECT
TEBB	TELECOMMUNICATIONS BACKBOARD
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERES
W	WATT or WIRE
W/	WITH
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER
NOT ALL ABBREVIATIONS ARE USED	

SYMBOLS	
	FLUORESCENT FIXTURE
	INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE
	WALL MOUNTED INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE
	WALL MOUNTED EXIT FIXTURE, ARROW AS INDICATED, TYPE E
	CEILING MOUNTED EXIT FIXTURE
	WALL MOUNTED, BATTERY OPERATED EMERGENCY FIXTURE, TYPE EM
	SINGLE POLE SWITCH
	DOUBLE POLE SWITCH
	THREEWAY SWITCH
	SWITCH FOR FIXTURES MARKED "a"
	PILOT LIGHT SWITCH
	MOTOR STARTER SWITCH - WITHOUT OVERLOAD PROTECTION
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE; Nema Type As Shown
	JUNCTION BOX
	MOTOR
	MANUAL MOTOR STARTER - WITH OVERLOAD PROTECTION
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT
	DISCONNECT SWITCH NON-FUSED
	DISCONNECT SWITCH FUSED
	ENCLOSED CIRCUIT BREAKER
	MAGNETIC CONTACTOR
	MOTOR W/MANUAL MOTOR STARTER ON OR ADJACENT TO THE MOTOR
	METER SOCKET
	PANELBOARD
	BRANCH CIRCUIT HOME RUN TO PANELBOARD - No. of Arrows Indicates Number of Circuits, Panel and Circuit Numbers As Shown
	NUMBER OF CONDUCTORS IN RACEWAY - Absence of marks indicates two conductors and equipment grounding conductor, EGC in all raceways. Equipment grounding conductor indicated.
	THERMOSTAT
	TELECOMMUNICATIONS OUTLET [TELEPHONE OUTLET]
	TELECOMMUNICATIONS OUTLET
	PHOTOCELL
NOT ALL SYMBOLS ARE USED	

FIRE ALARM SYSTEM SYMBOLS	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	MANUAL PULL STATION
	FIXED TEMPERATURE (135°F) THERMAL DETECTOR
	FIXED TEMPERATURE (200°F) THERMAL DETECTOR
	RATE OF RISE THERMAL DETECTOR
	RATE COMPENSATION THERMAL DETECTOR
	SMOKE DETECTOR
	IONIZATION SMOKE DETECTOR
	PHOTOELECTRIC SMOKE DETECTOR
	SMOKE DETECTOR WITH AUDIBLE BASE
	120 VOLT SMOKE DETECTOR
	WALL MOUNTED SMOKE ALARM
	DUCT MOUNTED SMOKE DETECTOR
	BEAM MOUNTED SMOKE DETECTOR (TRANSMIT)
	BEAM MOUNTED SMOKE DETECTOR (RECEIVE)
	HORN
	STROBE
	MINI HORN/STROBE
	HORN/STROBE
	INTERFACE MODULE
	INTERFACE MODULE - DUAL CONTACT
	INTERFACE MODULE - RELAY
	INTERFACE MODULE - RELAY WITH T-SENSE INPUT
	INTELLIGENT CONTROL POINT
	DOOR HOLDER - PROVIDED BY OTHERS, WIRED BY DIV. 16
	FIRE/SMOKE DAMPER, PROVIDED BY DIV. 15, WIRED DIV. 16
	SPRINKLER BELL - PROVIDED BY OTHERS, WIRED BY DIV. 16
	PRESSURE SWITCH - PROVIDED BY OTHERS, WIRED BY DIV. 16
	FLOW SWITCH - PROVIDED BY OTHERS, WIRED BY DIV. 16
	TAMPER SWITCH - PROVIDED BY OTHERS, WIRED BY DIV. 16
NOT ALL SYMBOLS ARE USED	

SHEET NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE, LATEST EDITION. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70 ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE NOTED, BUT NOT SMALLER THAN 12 AWG, IN ALL BRANCH CIRCUIT RACEWAYS.
- LIGHTING AND POWER CIRCUITS SHALL BE 12 AWG MINIMUM, WITH TYPE XHHW INSULATION..
- ALL DEVICE BOXES FOR EXPOSED RACEWAY SYSTEMS SHALL BE CAST METAL TYPE.
- CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS UNLESS SPECIFICALLY NOTED OTHERWISE. ALL CONDUCTORS INSTALLED OUTDOORS SHALL BE TYPE XHHW UNLESS OTHERWISE SPECIFIED. ALL MATERIALS REQUIRED FOR THIS JOB SHALL BE PROVIDED BY THIS CONTRACTOR.
- ALL CONDUIT PENETRATIONS OF WALLS MUST BE SEALED. EXISTING FINISHES AND MATERIALS DISTURBED BY CONSTRUCTION MUST BE REPAIRED, AND FIRESTOPPING RESTORED. FOLLOW REQUIREMENTS IN SPECIFICATIONS.
- ALL EXPOSED PVC CONDUITS TO BE SCHEDULE 80 TYPE PVC. INSTALL EXPANSION FITTINGS IN EACH EXPOSED PVC CONDUIT.
- MOUNTING HEIGHT FOR ALL RECEPTACLES, SWITCHES, AND VOICE/DATA OUTLETS SHALL BE 48" AFF OR AFG. LIGHTING CONTACTORS SHALL BE BETWEEN 4' AND 6' AFF.

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
ELECTRICAL SYMBOLS
AND NOTES

DESIGN	JAK
DRAWN	JLC
CHECKED	JAK
DATE	JUNE 26, 2009

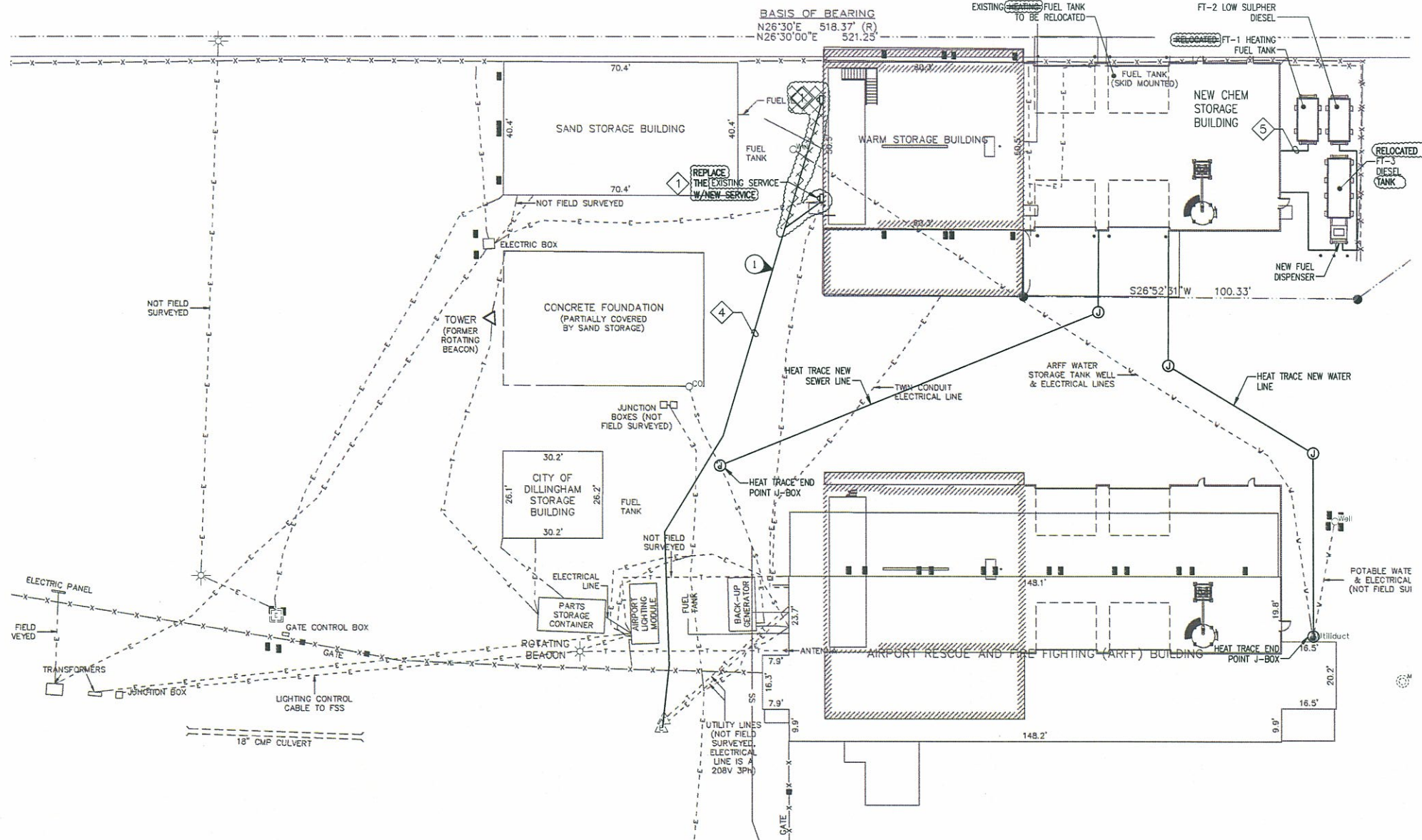
STATE PROJECT No.
50928
SHEET NUMBER

E1.0

RECORD DRAWING

DATE: 10/30/2012

BY: JLC



SHEET NOTES

- 1 ALL WORK SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE, LATEST EDITION. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70 ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
2. PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE NOTED, BUT NOT SMALLER THAN 12 AWG, IN ALL BRANCH CIRCUIT RACEWAYS.
3. LIGHTING AND POWER CIRCUITS SHALL BE 12 AWG MINIMUM, WITH TYPE XHHW INSULATION..
- 4 ALL DEVICE BOXES FOR EXPOSED RACEWAY SYSTEMS SHALL BE CAST METAL TYPE.
- 5 CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS UNLESS SPECIFICALLY NOTED OTHERWISE. ALL CONDUCTORS INSTALLED OUTDOORS SHALL BE TYPE XHHW UNLESS OTHERWISE SPECIFIED. ALL MATERIALS REQUIRED FOR THIS JOB SHALL BE PROVIDED BY THIS CONTRACTOR.
6. ALL CONDUIT PENETRATIONS OF WALLS MUST BE SEALED. EXISTING FINISHES AND MATERIALS DISTURBED BY CONSTRUCTION MUST BE REPAIRED, AND FIRESTOPPING RESTORED. FOLLOW REQUIREMENTS IN SPECIFICATIONS.
7. ALL EXPOSED PVC CONDUITS TO BE SCHEDULE 80 TYPE PVC. INSTALL EXPANSION FITTINGS IN EACH EXPOSED PVC CONDUIT.
8. MOUNTING HEIGHT FOR ALL RECEPTACLES, SWITCHES, AND VOICE/DATA OUTLETS SHALL BE 48" AFF OR AFG. LIGHTING CONTACTORS SHALL BE BETWEEN 4' AND 6' AFF.

DEMOLITION NOTES

1. ELECTRICAL ITEMS LOCATED ON THE EXTERIOR NORTH SIDE OF THE WARM STORAGE BUILDING NEED TO BE REMOVED. COVER OPENINGS IN WALL AS DIRECTED BY PROJECT ENGINEER:
 - A) TWO EXTERIOR LIGHTS AND ONE RECEPTACLE OUTLET. REMOVE DEVICE FROM BUILDING. REMOVE THE CONDUCTORS FROM THE DEVICE BACK TO THE FIRST J-BOX OR OTHER ACCESS POINT. DELIVER REMOVED LIGHTS TO DOT DILLINGHAM SHOP AS DIRECTED BY PROJECT ENGINEER.
 - B) FUEL TANK EMERGENCY SHUT OFF PUSH BUTTON AND SIGN.
 - C) PVC CONDUIT ON NORTH EAST CORNER OF WARM STORAGE BUILDING: REMOVE CONDUIT. REPLACE WITH NEW CONDUCTORS AND PVC CONDUIT TO MAINTAIN FUNCTIONING OF EXISTING SYSTEM. USE RMC CONDUIT IF RUNNING UNDER CONCRETE FLOOR.
2. REMOVE CONDUCTORS FROM PANEL "A" TO EXISTING FUEL TANK. REMOVE CONDUIT FROM BUILDING TO FUEL TANK.
3. FLOOR DRAIN HEAT TRACE TO REMOVED FROM SERVICE. REMOVE CONTROL SWITCH AND JUNCTION BOXES FROM WALL. REMOVE SERVING CIRCUIT CONDUCTORS FROM BREAKER IN PANEL "A", REMOVE CONDUCTORS FROM CONDUIT.
4. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLING ANY EXISTING ELECTRICAL EQUIPMENT, CONDUIT, OR OTHER ELECTRICAL ITEMS AS REQUIRED FOR CONSTRUCTION OF NEW MEZZANINE FLOOR AND SUPPORT STRUCTURE IN EXISTING WARM STORAGE BUILDING.
5. CONTRACTOR TO PLUG AND PATCH WALL SURFACES WITH SIMILAR MATERIALS AND FINISHES TO ADJACENT WALL SURFACES DUE TO ANY CONDUITS OR ELECTRICAL MATERIALS REMOVED DURING THIS PROJECT THAT PENETRATE EXISTING INSULATED WALL PANELS.
6. CONTRACTOR TO REPAIR ANY CONDUITS DAMAGED BY INSTALLATION OF SUPPORT FOOTINGS FOR NEW MEZZANINE. REPLACE EXISTING CONDUCTORS IN THE DAMAGED CONDUITS.

RECORD DRAWING

DATE: 10/30/2012 BY: JLC

PLANS DEVELOPED BY:
PDC, INC.

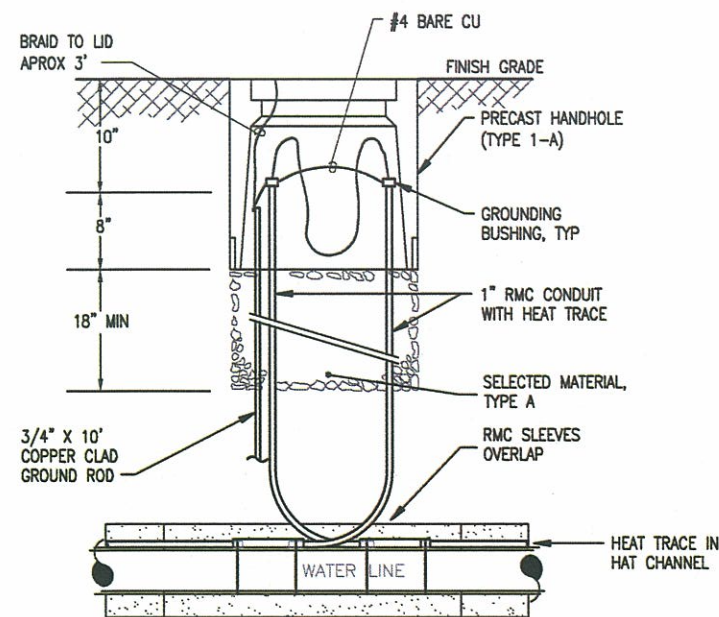
CONSULTANT:
CONSULTANT

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

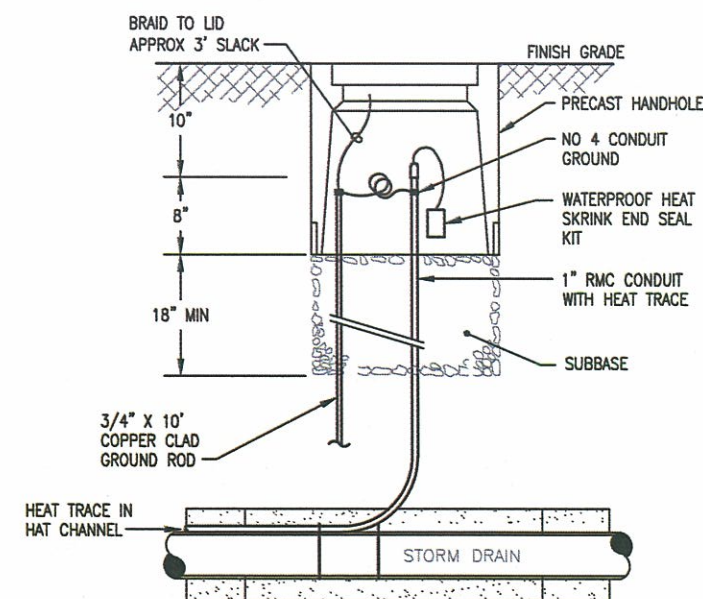
SHEET TITLE:
ELECTRICAL
SITE PLAN

DESIGN JMK
DRAWN JLC
CHECKED JMK
DATE JUNE 26, 2009
STATE PROJECT No.
50928
SHEET NUMBER

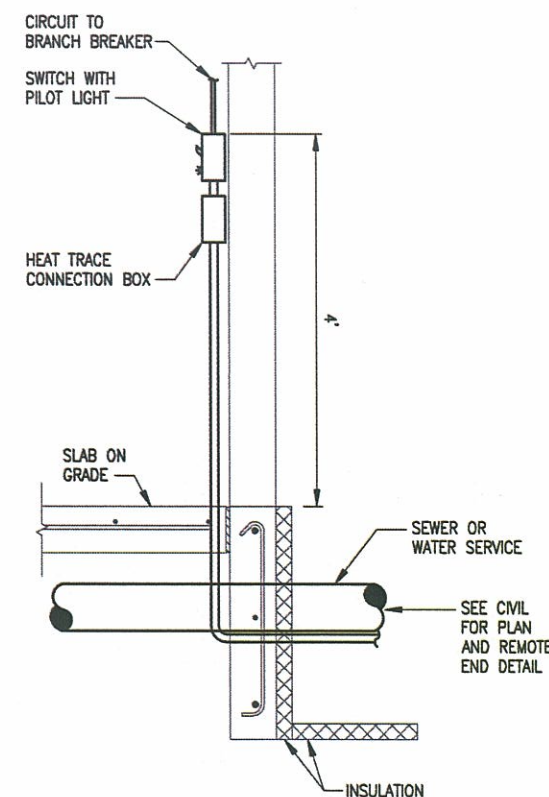
E1.1



1 HEAT TRACE JUNCTION BOX
E1.2 NTS



2 HEAT TRACE END POINT JUNCTION BOX
E1.2 NTS

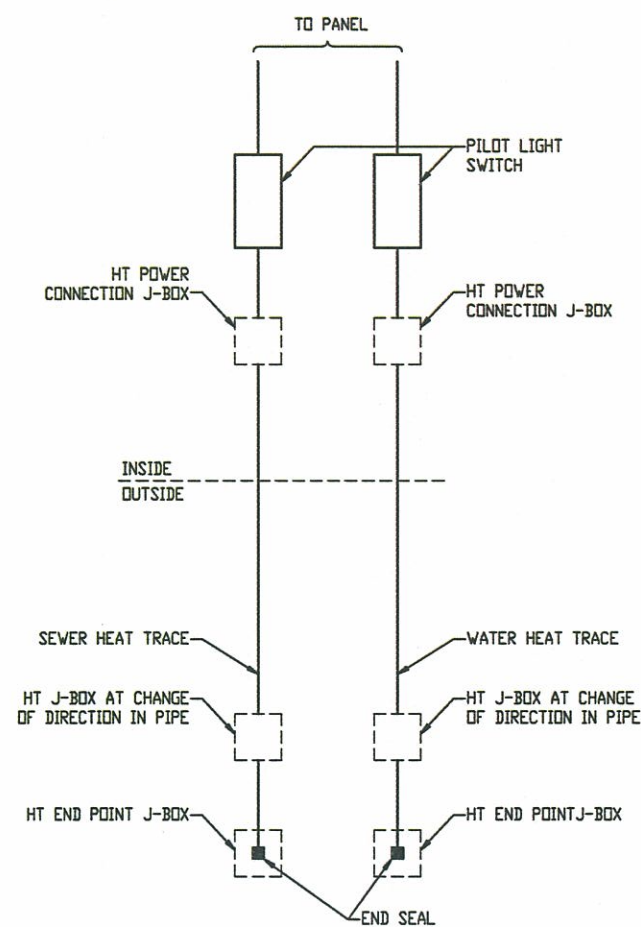


3 HEAT TRACE ENTRANCE
E1.2 NTS

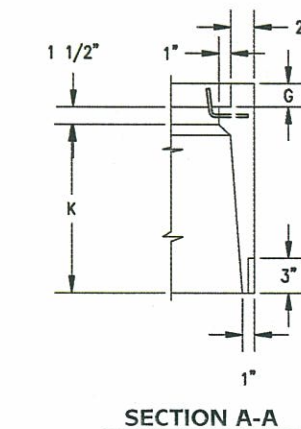
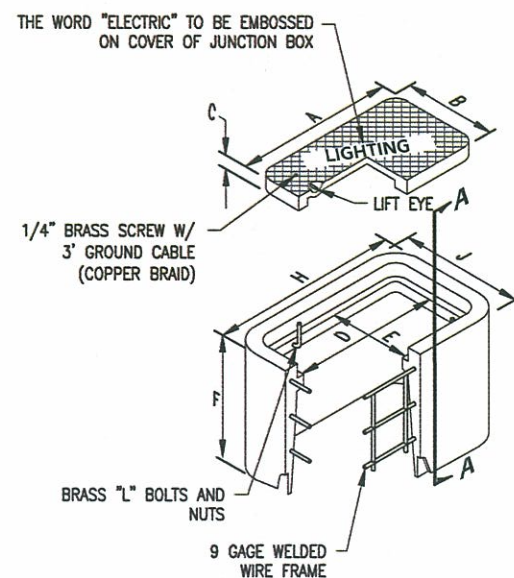
HEAT TRACE NOTES

THE HEAT TRACE AND ASSOCIATED COMPONENTS SHALL CONFORM TO THE FOLLOWING:

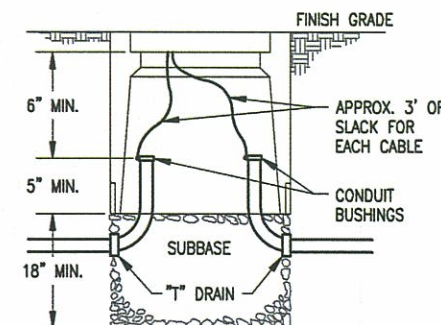
1. TERMINATIONS, SPLICES, AND CONNECTION J-BOXES SHALL BE THE TYPE RECOMMENDED BY THE HEAT TRACE MANUFACTURER FOR THE APPLICATION, AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. TRANSITION FROM HEAT TRACE TO SUPPLY CONDUCTORS SHALL BE PROVIDED IN THE MANUFACTURER RECOMMENDED CONNECTION J-BOXES.
2. HEAT TRACE SHALL BE SUPPLIED WITH GROUND FAULT TYPE CIRCUIT BREAKERS. PROVIDE A PILOT LIGHT SWITCH FOR EACH HEAT TRACE SEGMENT; PILOT LIGHT SHALL ILLUMINATE WHEN THE HEAT TRACE IS ENERGIZED.
3. HEAT TRACE SHALL BE SELF-LIMITING PARALLEL RESISTANCE HEATING CABLE, NICKEL-PLATE COPPER BUS WIRE, SELF-REGULATING CONDUCTIVE CORE, POLYOLEFIN INNER JACKET BETWEEN CORE AND BRAID, TINNED COPPER SHIELD BRAID, FLUOROPOLYMER OUTER JACKET.
4. MAXIMUM MAINTENANCE TEMPERATURE 150 DEGREES F OR LESS (WATER FREEZE PROTECTION).
5. HEAT TRACE SHALL BE RATED 5 WATTS/FOOT NOMINAL AT ~~240~~ VOLTS; NELSON ~~LT-25~~ **LT-5** OR APPROVED EQUAL.
6. END SEAL SHALL BE HEAT SHRINK TYPE, FOR USE IN WET LOCATIONS. NELSON LT-SE OR APPROVED EQUAL.
7. HEAT TRACE POWER CONNECTION BOX SHALL BE NELSON TYPE PLT-BC-U-3-S, WITH NELSON LT-SP HEAT SHRINK POWER END SEAL, OR APPROVED EQUAL. FILL WITH SCOTCHCAST 2112 REENTERABLE RESIN AFTER WIRING.
8. SEE CIVIL SHEETS FOR WATER LINE HEAT TRACE INSTALLATION DETAILS.



4 HEAT TRACE ONE-LINE
E1.2 NTS



5 A.D.O.T. TYPE 1 & 1-A JUNCTION BOX DETAIL
E1.2 NTS



DIMENSIONS (IN.)

	TYPE 1	TYPE 1-A
A	15	22 3/4
B	10	13 1/4
C	1 3/4	2
D	13 1/2	21 1/4
E	8 1/2	11 3/4
F	12	18
G	1 3/4	2
H	19 1/2	27 1/4
J	14 1/2	17 3/4
K	8 3/4	14 1/2

RECORD DRAWING

DATE: 10/30/2012 BY: JLC

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT:
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

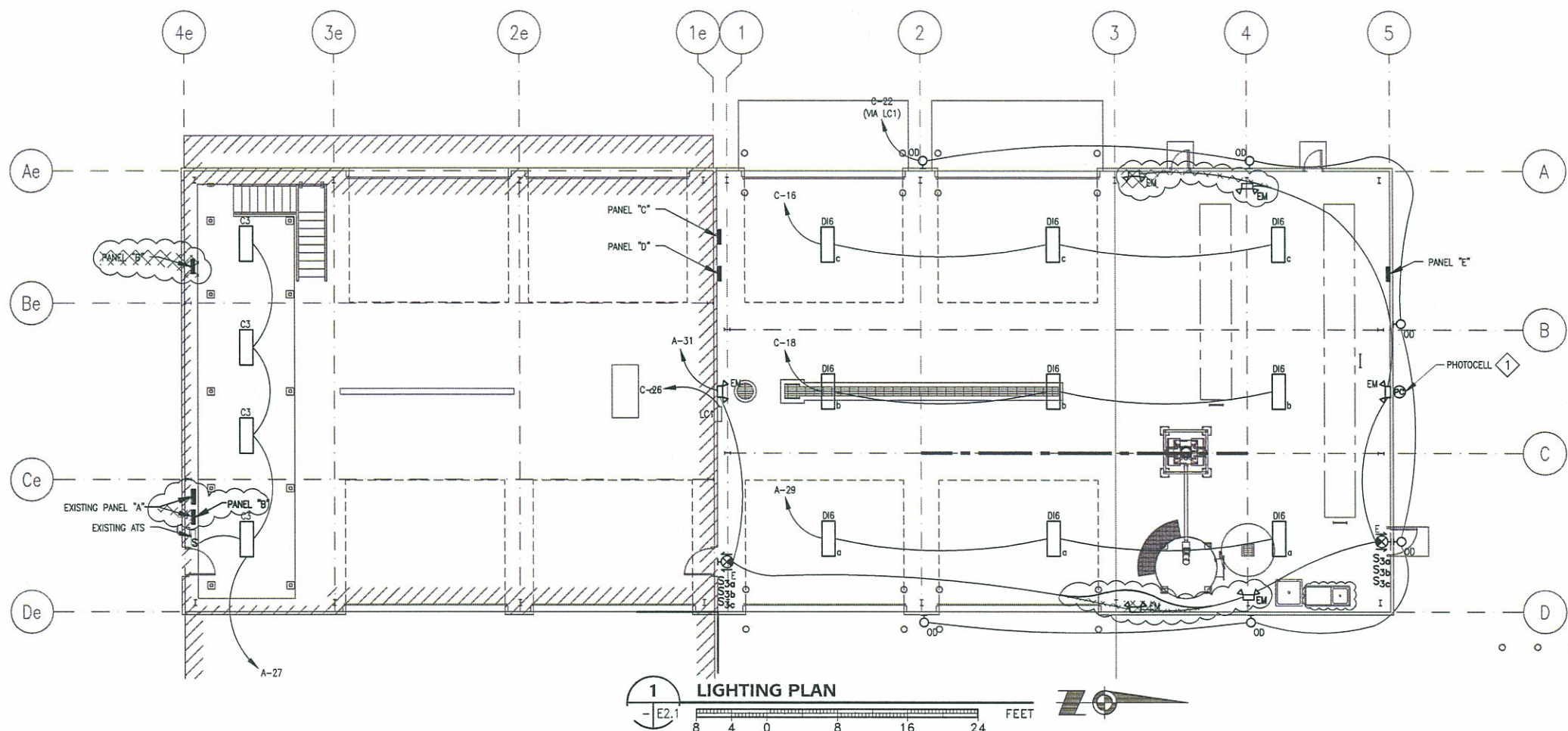
SHEET TITLE:
ELECTRICAL
SITE DETAILS

DESIGN JLC
DRAWN JLC
CHECKED JLC
DATE JUNE 20, 2009

STATE PROJECT No.
50928

SHEET NUMBER

E1.2



LIGHTING FIXTURE SCHEDULE				
TYPE	LAMP	DESCRIPTION	BALLAST (PS = PROGRAMMED START)	BASIS OF DESIGN PRODUCT
C3	THREE F32T8/SP35	GENERAL: SURFACE CEILING 15-3/8" X 4' WRAP HOUSING: STEEL, COLOR WHITE DIFFUSER: ACRYLIC WITH LUMINOUS ENDS, HINGE FROM SIDE	VOLTAGE: 120 TYPE: ELECTRONIC PS THD: <10%	LITHONIA LIGHTING NO. LB-3-32-120 WITH GEB10PS BALLAST
DI6	SIX F54T5HO AMALGAM LAMPS	FLUORESCENT HIGHBAY HOUSING: STEEL, COLOR WHITE, WITH ZINC COATED WIREGUARD LIGHT DISTRIBUTION: WIDE, WITH UPLIGHT REFLECTOR: HIGH-REFLECTANCE WHITE FINISH	VOLTAGE: 120-277, MVOLT TYPE: ELECTRONIC PS THD: <10% (1) 2-TUBE & (1) 4-TUBE STARTING TEMP: 0 DEG. F, MIN INPUT VA: 390 OR LESS	LITHONIA LIGHTING IB-654-WD WITH WGZB WIRE GUARD
E	LIGHT EMITTING DIODE	GENERAL: STENCIL FACE EXIT SIGN, CEILING AND SURFACE WALL MOUNT 7'-6" AFF HOUSING: CAST ALUMINUM, COLOR BLACK, BRUSHED ALUMINUM FACE BATTERY: SEALED MAINTENANCE FREE NI-CAD BATTERY WITH CHARGER LETTERING: GREEN LETTERS CHEVRON ARROW: AS SHOWN ON PLANS	VOLTAGE: 120	DUAL-LITE NO. CVD SERIES
EM	TWO 12W HALOGEN LAMPS BY MFR.	GENERAL: INDIVIDUAL EMERGENCY LIGHT, SURFACE WALL, 7'-6" AFF HOUSING: STEEL, COLOR WHITE BATTERY: 50W, 12 VOLT MAINTENANCE-FREE NICKEL-CADMIUM BATTERY AND CHARGER INPUT VOLTAGE: 120/277	VOLTAGE: 120	DUAL-LITE NO. CVEC50N-12V
OD	ONE 70W CLEAR HPS	GENERAL: HIGH PRESSURE SODIUM WALL-PAK, SURFACE +12" ABOVE DOOR TRIM HOUSING: DIE-CAST ALUMINUM HOUSING, DARK BRONZE POLYESTER ENAMEL FINISH OPTICS: ONE-PIECE INJECTION MOLDED POLYCARBONATE COVER/REFRACTOR, GASKETED LOCATION: LISTED FOR WET LOCATIONS, CORROSION RESISTANT EXTERNAL HARDWARE	VOLTAGE: 120 TYPE: HPF	HUBBELL OUTDOOR LIGHTING NO. NRG-307B

SHEET NOTES

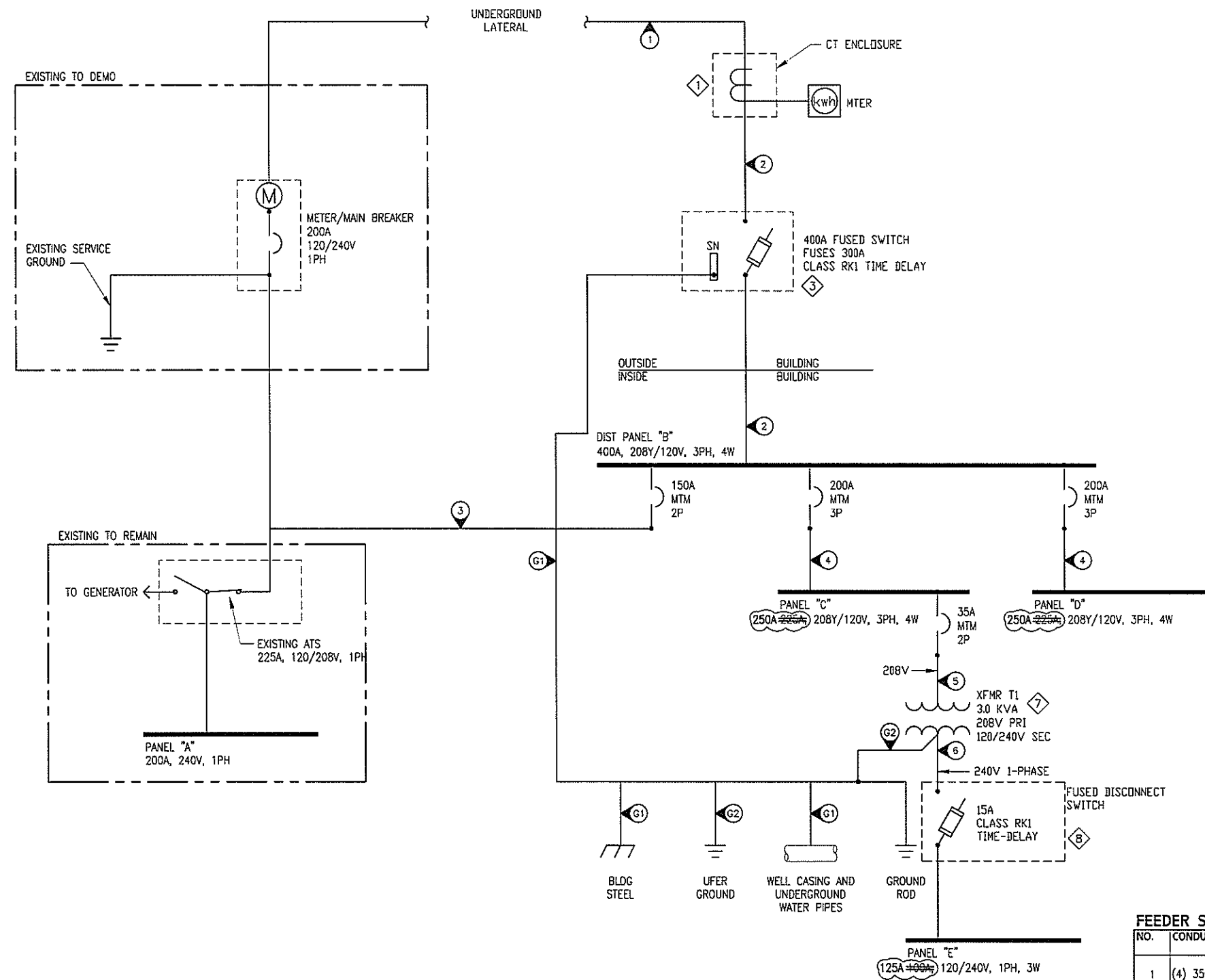
- PHOTOCELL SHALL BE MOUNTED ON THE NORTH SIDE OF THE BUILDING.
- LIGHTING CONTACTOR LC1 SHALL BE 30 AMP, 120V, 2-POLE, IN A NEMA TYPE 1 INDOOR ENCLOSURE, WITH A 120 VOLT CONTROL COIL, CONTROLLED BY PHOTOCELL, WITH HAND-OFF-AUTO SWITCH. CONTACTOR SHALL HAVE A FACTORY-INSTALLED CONTROL-COIL FUSE.

RECORD DRAWING

DATE: 10/30/2012

BY: JLC

PLANS DEVELOPED BY: PDC, INC.		CONSULTANT: CONSULTANT	
PROJECT: DILLINGHAM AIRPORT CHEMICAL STORAGE BUILDING ALASKA DOT & PUBLIC FACILITIES AIP 3-02-0078-011-2009 DILLINGHAM, ALASKA		SHEET TITLE: LIGHTING PLAN	
DESIGN	JMK	STATE PROJECT No.	50928
DRAWN	JLC	SHEET NUMBER	E2.1
CHECKED	JMK		
DATE	JUNE 26, 2009		
<div> <div>REVISIONS</div> <div>DATE</div> <div>BY</div> </div>			



1 ELECTRICAL ONE-LINE

RECORD DRAWING

DATE: 10/30/2012 BY: JLC

SHEET NOTES

- CT CABINET AND METER SOCKET TYPE TO BE AS REQUIRED BY SERVING UTILITY.
- DISTRIBUTION PANEL "B" TO BE SQUARE-D I-LINE, TYPE HCN OR EQUAL. PANELBOARDS "C" AND "D" TO BE SQUARE-D TYPE NO. OR EQUAL. PANELBOARD "E" TO BE SQUARE-D TYPE Q0816L OR EQUAL. ALL PANELBOARD BREAKERS TO BE BOLT-ON TYPE, RATED 10,000 AIC MINIMUM.
- SERVICE ENTRANCE FUSED DISCONNECT SWITCH SHALL BE 400 AMP, 240 VOLT, 4-WIRE (3 BLADES AND FUSE HOLDERS, 1 NEUTRAL), HEAVY DUTY, NEMA 3R, SUITABLE FOR USE AS SERVICE EQUIPMENT. SQUARE-D H325N OR EQUAL.
- CONCRETE ENCASED GROUNDING ELECTRODE (UFER GROUND) SHALL CONSIST OF A MINIMUM OF 20 FEET OF #4 BARE COPPER WIRE ENCASED IN A MINIMUM OF 2" OF CONCRETE. THE UFER GROUND SHALL BE CONNECTED TO THE GROUNDING ELECTRODE SYSTEM AS SHOWN ON THE PLANS.
- THE GROUNDING ELECTRODE SYSTEM SHALL BE CONNECTED TO THE WELL CASING, TO THE BUILDING STEEL AT TWO COLUMNS, AND TO ANY UNINSULATED UNDERGROUND METAL WATER PIPES ENTERING THE BUILDING. GROUND RODS SHALL BE 3/4" X 10 FEET, COPPER-CLAD STEEL.
- ARRANGE FOR INSPECTION OF THE GROUNDING ELECTRODE SYSTEM BY THE AUTHORITY HAVING JURISDICTION BEFORE CONCRETE POUR OR BURIAL IF REQUIRED.
- TRANSFORMER T1 SHALL BE WALL MOUNTED, IN NEMA TYPE 1 ENCLOSURE, SQUARE-D NO. 357F, OR APPROVED EQUAL.
- FUSED DISCONNECT SWITCH SHALL BE 240 VOLT, 2-POLE WITH SOLID NEUTRAL, IN NEMA TYPE 1 ENCLOSURE, SQUARE-D NO. H221N OR APPROVED EQUAL.
- REVISIONS SHOWN ON THIS SHEET AFFECTING PANELS "C", "D", AND "E" ARE PER ON-SITE OBSERVATIONS THAT TOOK PLACE DURING THE OCTOBER 14, 2010 SUBSTANTIAL COMPLETION INSPECTION.

FEEDER SCHEDULE

NO.	CONDUCTORS	RACEWAY TYPE	RUNS	REMARKS
1	(4) 350 MCM XHHW (1) # 2 XHHW EGC	3" PVC	1	RECOMMENDED SIZE UNDERGROUND SERVICE INSTALLED BY UTILITY
2	(4) 350 MCM XHHW (1) # 2 XHHW EGC	3" RMC	1	
3	(4) # 1/0 XHHW (1) # 6 XHHW EGC	1-1/2" IMC	1	
4	(4) # 3/0 XHHW (1) # 6 XHHW EGC	2" IMC	1	
5	(2) # 8 XHHW (1) # 10 XHHW EGC	3/4" IMC	1	
6	(3) # 10 XHHW (1) # 10 XHHW EGC	3/4" IMC	1	
G1	(1) # 2 BCU		1	
G2	(1) # 4 BCU		1	

REVISIONS	DATE	BY

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
ONE-LINE DIAGRAM

DESIGN JAK
DRAWN JLC
CHECKED JAK
DATE JUN 26, 2009

STATE PROJECT No.
50928

SHEET NUMBER

E4.1

EXISTING PANELBOARD "A"														
VOLTAGE: 120/240V, 1PH, 3W BUS: 200 MAIN: MAIN LUGS ONLY					SPECIFICATION TYPE: LAB MIN. A.I.C. RATING: 10,000 CIRCUITS: 42					ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: WARM STORAGE BLD				
LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE	CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
5	EXISTING LOAD	4	2000	20	1	1	A	2	1	20			EXISTING BREAKER	
5	EXISTING LOAD	4	2000	20	1	3	B	4	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	5	A	6	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	7	B	8	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	9	A	10	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	11	B	12	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	13	A	14	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	15	B	16	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	17	A	18	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	19	B	20	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	21	A	22	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	23	B	24	1	20			EXISTING BREAKER	
	EXISTING BREAKER			20	1	25	A	26	1	20			EXISTING BREAKER	
1	LIGHTS UNDER MEZZANINE - WARM STORAGE BLD		380	20	1	27	B	28	1	15	864		UNIT HEATER UH-1A, CHEM STORAGE BLD	6
1	LIGHTS - EAST SIDE OF CHEM STORAGE BLD		1170	20	1	29	A	30	1	15	864		DAY TANK DT-1, CHEM STORAGE BLD, MTR 1 PWR	3
1	EXIT AND EMERGENCY LIGHTS - CHEM STOR BLD		500	20	1	31	B	32	1	15	100		CO ALARMS, CHEM STORAGE BLD	8
				20	1	33	A	34	1	20	864		DAY TANK DT-1, MTR 2 PWR, CHEM STORAGE BLD	3
				20	1	35	B	36	1	20	250		DAY TANK DT-1, CONTROL PWR, CHEM STORAGE BLD	5
				20	1	37	A	38	1	20				
				20	1	39	B	40	1	20				
				20	1	41	A	42	1	20				
LOAD SUMMARY AND CODE DEFINITIONS														
			CONNECTED KVA			% DV		NEC TOTAL		NOTES:				
1 LIGHTING =			PH A	PH B	TOTAL	125%		2.6		1. GFCI BREAKER (5mA).				
2 RECEPTACLES =			1.2	0.9	2.1	10K+50%				2. GFPE BREAKER (30mA).				
3 MOTORS =						100%				3. AFCI BREAKER.				
4 LARGEST MOTOR =						125%								
5 MISC. NON-CONTINUOUS =			2.9	2.0	4.9	100%		4.9		4. EXISTING LOAD VALUES BASED ON READINGS TAKEN AT SITE BY ADOT PERSONNEL				
6 MISC. CONTINUOUS =				1.0	1.0	125%		1.2						
7 NON-COINCIDENTAL =						0%								
8 SPARE =						100%								
9 OTHER =						100%								
TOTAL KVA (PHASE)			4.0	3.8	7.9			8.6						
TOTAL AMPERES			33.6	32.0	32.8			36.0						

DISTRIBUTION PANEL "B"														
VOLTAGE: 208Y/120V, 3PH, 4W BUS: 400 AMP MAIN: MAIN LUGS ONLY					SPECIFICATION TYPE: DPB MIN. A.I.C. RATING: 22,000					ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: WARM STORAGE BUILDING				
CKT	FRAME	AMPS	POLES	TRIP	FEATURES			LOAD DESCRIPTION	NOTE	CONNECTED VA			LOAD	
										PH A	PH B	PH C		
1	150	150	2	MTM				PANEL "A" THROUGH TRANSFER SWITCH		PH A	PH B	PH C	5	
2	250	200	3	MTM				PANEL "C"		4316	4316		5	
3	250	200	3	MTM				PANEL "D"		10267	10267	10267	5	
4										10240	10240	10240	5	
5														
6														
LOAD SUMMARY AND CODE DEFINITIONS														
					CONNECTED KVA				% DV	NEC TOTAL	NOTES:			
					PH A	PH B	PH C	TOTAL						
1	LIGHTING =								125%		1. ADJ - ADJUSTABLE LTPU RANGE 0.5-1.0 X FRAME MIN. 2. MTM - MOLDED CASE THERMAL MAGNETIC BREAKER. 3. MET - MOLDED CASE BREAKER WITH ELECTRONIC TRIP UNIT.			
2	RECEPTACLES =								10K+50%					
3	MOTORS =								100%					
4	LARGEST MOTOR =								125%					
5	MISC. NON-CONTINUOUS =				24.8	24.8	20.5	70.2	100%	70.2				
6	MISC. CONTINUOUS =								125%					
7	NON-COINCIDENTAL =								0%					
8	SPARE =								100%					
9	OTHER =								100%					
TOTAL KVA (PHASE)					24.8	24.8	20.5	70.2		70.2				
TOTAL AMPERES					206.9	206.9	170.9	194.9		194.9				

RECORD DRAWING

DATE: 10/30/2012 BY: JLC

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REVISIONS				DATE	BY
NO.	DESCRIPTION	DATE	BY		

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
ELECTRICAL PANEL
SCHEDULES

DESIGN JMK
DRAWN JLC
CHECKED JMK
DATE JUNE 20, 2009
STATE PROJECT No.
50928
SHEET NUMBER

E5.1

PANELBOARD "C"														
VOLTAGE: 208Y/120V, 3PH, 4W BUS: 250 MAIN: MAIN LUGS ONLY					SPECIFICATION TYPE: LAB MIN. A.I.C. RATING: 10,000 CIRCUITS: 42					ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: CHEM STORAGE BAY				
LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE	CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
3	GDO-1 1/2 HP		1176	20	1	1	A	2	1	30	750	2	WATER LINE HEAT TRACE	6
3	GDO-2 1/2 HP		1176	20	1	3	B	4	1	15	864		UH-1B	3
3	GDO-3 1/2 HP		1176	20	1	5	C	6	1	15	864		UH-1C	3
3	GDO-4 1/2 HP		1176	20	1	7	A	8	1	20	1176		SUMP PUMP SP-1, 1/2 HP	3
8	SPARE		1000	20	1	9	B	10	1	20	110		CF-1 CEILING FAN	3
8	OIL-WATER SEPARATOR OWS-1 SPARE		110	15	1	11	C	12	1	20	1650		WATER HEATER WH-1	5
4	TROLLEY CRANE 3HP HOIST AND 1/4 HP TROLLEY		1621	25	3	13	A	14	1	30	800	2	SEWER LINE HEAT TRACE	6
4	"		1273	-	-	15	B	16	1	20	1170		HIGH BAY FLUORESCENT LIGHTS - WEST	1
4	"		1273	-	-	17	C	18	1	20	1170		HIGH BAY FLUORESCENT LIGHTS - CENTER	1
3	EF-1, 2 HP		901	20	3	19	A	20	1	20	360	1	OUTDOOR RECEPT - WEST SIDE	2
3	"		901	-	-	21	B	22	1	20	1200		OUTDOOR LIGHTS	1
3	"		901	-	-	23	C	24	1	20	360		RECEPT - SOUTH WALL	1
						25	A	26	1	15	100		LC1 LIGHTING CONTACTOR POWER	1
						27	B	28	1	20	360	1	OUTDOOR RECEPT - EAST SIDE	2
						29	C	30	1	20	360	1	OUTDOOR RECEPT - NORTH SIDE	2
						31	A	32	1	20	540		RECEPT - NORTH & WEST WALLS	2
						33	B	34	1	20	540		RECEPT - NORTH & EAST WALLS	2
						35	C	36	1	20	540		RECEPT - SOUTH & EAST WALLS	2
						37	A	38	1	20	100		TANK FT-1 MONITOR AND ALARM SYSTEM POWER	6
						39	B	40	2	35	1078		TRANSFORMER T1 TO PANEL "E"	5
						41	C	42	-	-	1078		"	5
LOAD SUMMARY AND CODE DEFINITIONS														
			CONNECTED KVA				% DV		NEC TOTAL		NOTES:			
1 LIGHTING =			PH A	PH B	PH C	TOTAL					1. GFCI BREAKER (5mA).			
2 RECEPTACLES =			0.1	2.4	1.5	4.0	125%		5.0		2. GFPE BREAKER (30mA).			
3 MOTORS =			0.9	0.9	0.9	2.7	10K+50%		2.7		3. AFCI BREAKER.			
4 LARGEST MOTOR =			4.4	3.1	2.9	10.4	100%		10.4					
5 MISC. NON-CONTINUOUS =			1.6	1.6	1.3	4.5	125%		5.6					
6 MISC. CONTINUOUS =			1.1	1.1	2.7	3.8	100%		3.8					
7 NON-COINCIDENTAL =			1.7		0.1	1.8	125%		2.2					
8 SPARE =							0%							
9 OTHER =				1.0		1.0	100%		1.0					
TOTAL KVA (PHASE)			8.7	10.0	9.5	28.2			30.8					
TOTAL AMPERES			72.5	83.5	79.0	78.3			85.5					

PANELBOARD "D"														
VOLTAGE: 208Y/120V, 3PH, 4W BUS: 250 MAIN: MAIN LUGS ONLY					SPECIFICATION TYPE: LAB MIN. A.I.C. RATING: 10,000 CIRCUITS: 30					ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: CHEM STORAGE BAY				
LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE	CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
4	MIXING PUMP MP-1, 10 HP MP-1A/1B MANUAL XFER SW		3699	60	3	1	A	2	3	35	2005		CHARGER SHIP BAG UNLOADER CONTROL PANEL	5
4	"		3699	-	-	3	B	4	-	-	2005		"	5
4	"		3699	-	-	5	C	6	-	-	2005		"	5
3	AIR COMPRESSOR SHP		2005	35	3	7	A	8	3	20	4273		SUMP-BREAKER SPARE	8
3	"		2005	-	-	9	B	10	-	-	4273		"	8
3	"		2005	-	-	11	C	12	-	-	4273		"	8
5	MIXING TANK/LEVEL CONTROLS		500	15	1	13	A	14	1	20	4000110		BAG HANDLING ACCESSORIES OIL-WATER SEPARATOR OWS-1	6
						15	B	16						
						17	C	18						
						19	A	20						
						21	B	22						
						23	C	24						
						25	A	26						
						27	B	28						
						29	C	30						
LOAD SUMMARY AND CODE DEFINITIONS														
			CONNECTED KVA				% DV		NEC TOTAL		NOTES:			
1 LIGHTING =			PH A	PH B	PH C	TOTAL					1. GFCI BREAKER (5mA).			
2 RECEPTACLES =							125%				2. GFPE BREAKER (30mA).			
3 MOTORS =			5.3	5.3	5.3	15.8	100%		15.8		3. AFCI BREAKER.			
4 LARGEST MOTOR =			3.7	3.7	3.7	11.1	125%		13.9					
5 MISC. NON-CONTINUOUS =			1.0			1.0	100%		1.0					
6 MISC. CONTINUOUS =							125%							
7 NON-COINCIDENTAL =							0%							
8 SPARE =							100%							
9 OTHER =							100%							
TOTAL KVA (PHASE)			10.0	9.0	9.0	27.9			30.7					
TOTAL AMPERES			83.2	74.9	74.9	77.6			85.3					

PANELBOARD "E"														
VOLTAGE: 120/240V, 1PH, 3W BUS: 125 MAIN: MAIN LUGS ONLY					SPECIFICATION TYPE: LAB MIN. A.I.C. RATING: 10,000 CIRCUITS: 18					ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: CHEMICAL STORAGE BAY				
LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE	CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
5	FT-2, FT-3 PUMP 3/4 HP CONTROLS		500	15	1	1	A	2	1	2500	600828		FT-2, FT-3 400 V LEASE PUMPS	3
						3	B	4	-	-	828			
						5	A	6						
						7	B	8						
LOAD SUMMARY AND CODE DEFINITIONS														
			CONNECTED KVA				% DV		NEC TOTAL		NOTES:			
1 LIGHTING =			PH A	PH B	PH C	TOTAL					1. GFCI BREAKER (5mA).			
2 RECEPTACLES =							125%				2. GFPE BREAKER (30mA).			
3 MOTORS =							10K+50%				3. AFCI BREAKER.			
4 LARGEST MOTOR =							100%							
5 MISC. NON-CONTINUOUS =			1.3	0.8	2.2	2.2	125%		2.2					
6 MISC. CONTINUOUS =							100%							
7 NON-COINCIDENTAL =							0%							
8 SPARE =							100%							
9 OTHER =							100%							
TOTAL KVA (PHASE)			1.3	0.8	2.2	2.2			2.2					
TOTAL AMPERES			11.1	6.9	9.0	9.0			9.0					

SHEET NOTES

- BREAKER SIZES FOR PACKAGED EQUIPMENT ARE FOR BASIS OF DESIGN. CONTRACTOR TO COORDINATE BREAKER SIZE WITH EQUIPMENT MANUFACTURER'S RECOMMENDED SIZE.
- REVISIONS SHOWN ON THIS SHEET AFFECTING PANELBOARDS "C", "D", AND "E" ARE PER ON-SITE OBSERVATIONS THAT TOOK PLACE DURING THE OCTOBER 14, 2010 SUBSTANTIAL COMPLETION INSPECTION.

RECORD DRAWING

DATE: 10/30/2012

BY: JLC

REVISIONS		BY	DATE
NO.	DESCRIPTION		

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE :
ELECTRICAL PANEL
SCHEDULES

DESIGN	JAK
DRAWN	JLC
CHECKED	JAK
DATE	JUNE 26, 2009
STATE PROJECT No.	50928
SHEET NUMBER	E5.2

MANUAL STARTER SCHEDULE - FRACTIONAL HORSEPOWER							
FRACTIONAL HORSEPOWER MANUAL STARTER RATED 16 AMPS CONTINUOUS MINIMUM WITH THERMAL OVERLOAD UNITS							
SYSTEM VOLTS AND PHASE	H.P. 1 POLE	H.P. 2 POLE	H.P. 3 POLE	UPSTREAM BREAKER (AMPS)	MOTOR CIRCUIT CONDUCTORS AND CONDUIT		REMARKS
					CONDUCTORS TYPE XHHW STRANDED, 75 DEGREES C	RMC OR LFMC	
120 1 PHASE	1/3 AND LESS			15	2 NO. 12, 1 NO. 12 GND	1/2"	
	1/2 3/4			20 25	2 NO. 12, 1 NO. 12 GND 2 NO. 12, 1 NO. 12 GND	1/2"	
208-240 1 PHASE		1/3 THROUGH 3/4		15 FOR ALL	2 NO. 12, 1 NO. 12 GND FOR ALL	1/2"	
208-240 480 3 PHASE			LESS THAN 1	15 FOR ALL	3 NO. 12, 1 NO. 12 GND FOR ALL	1/2"	
NOTES: 1. NOT ALL MOTORS LISTED ON THIS SCHEDULE ARE USED IN THIS PROJECT. 2. REFER TO PLANS FOR ALTERNATE AND SPECIAL MOTOR/CONTROLLER APPLICATIONS. 3. STARTERS SHALL INCLUDE MOTOR AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH 2008 N.E.C. ARTICLE 430 PART III. 4. PROVIDE HANDLE GUARD/LOCK-OFF ACCESSORY WITH ALL NON-KEYED TOGGLE TYPE OPERATORS. 5. PROVIDE RED PILOT LIGHT WITH ALL MANUAL MOTOR STARTERS.							

RECORD DRAWING
DATE: 10/30/2012 BY: JLC

[illegible]

PLANS DEVELOPED BY:
PDC, INC.

CONSULTANT:
CONSULTANT

PROJECT :
DILLINGHAM AIRPORT
CHEMICAL STORAGE BUILDING
ALASKA DOT & PUBLIC FACILITIES
AIP 3-02-0078-011-2009
DILLINGHAM, ALASKA

SHEET TITLE:
ELECTRICAL PANEL
SCHEDULES

DESIGN	JMK
RAWN	JLC
CHECKED	JMK
DATE	JUNE 26, 2009
STATE PROJECT No.	
50928	
SHEET NUMBER	

SHEET NUMBER
E5.3