STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NO.	DATE	REVISIONS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJ. NO. Z682300000	2016	G-001	G-001
			PLAN SET TOTAL	57

PROPOSED PROJECT

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION
PROJECT NO. Z682300000
A. I. P. NO. 3-02-0144-023-2016

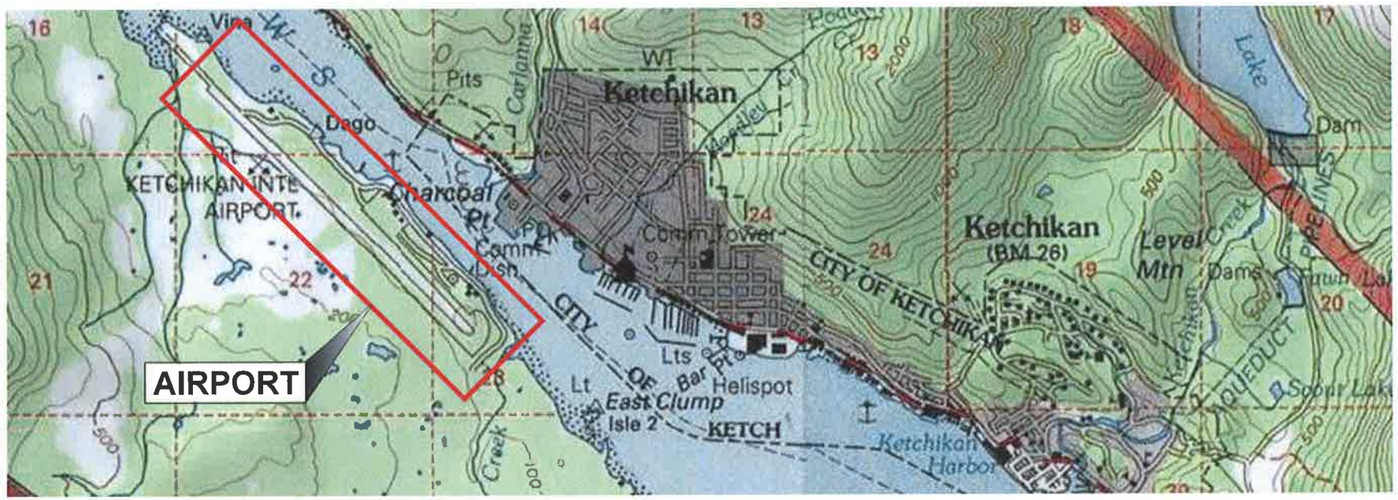
May 31, 2016

AS-BUILTS

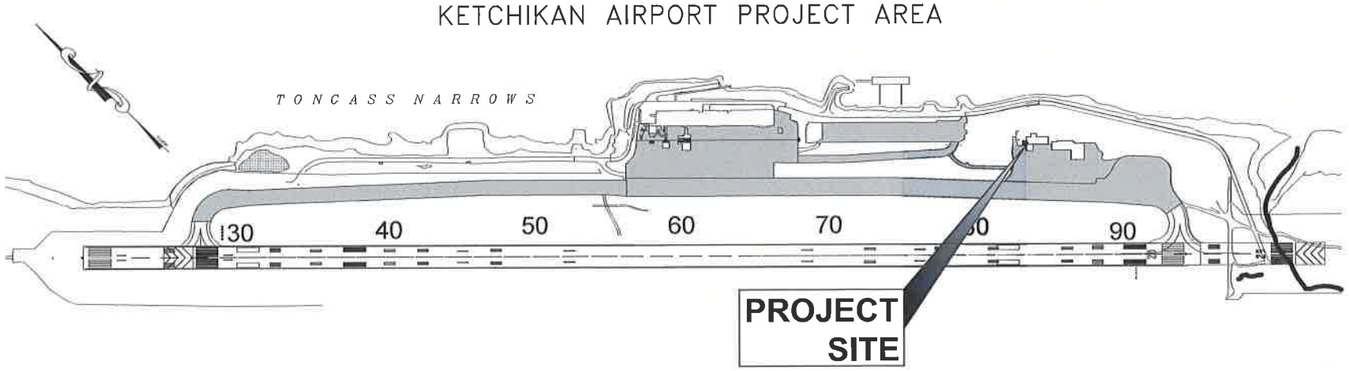
The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Cody Sutton

VICINITY MAP



KETCHIKAN AIRPORT PROJECT AREA



SHEET	DESCRIPTION
G-001	TITLE SHEET
V-001	HAZMAT-NOTES AND LEGEND
V-101	HAZMAT-SOIL SAMPLE LOCATIONS & RESULTS
V-102	HAZMAT-ASBESTOS SAMPLE LOCATIONS & RESULTS 1ST FLR
V-103	HAZMAT-LEAD SAMPLE LOCATIONS & RESULTS 1ST FLR
V-104	HAZMAT-ASBESTOS SAMPLE LOCATIONS & RESULTS 2ND FLR
V-105	HAZMAT-LEAD SAMPLE LOCATIONS & RESULTS 2ND FLR
C-001	SITE PLAN
C-002	SITE SECTION & HOLDING TANK
C-003	CONSTRUCTION SAFETY AND PHASING PLAN
A-001	ARCH ABBREVIATIONS, SYMBOLS, LEGENDS & ASSEMBLIES
A-100	1ST FLOOR PLAN - DEMOLITION
A-101	1ST FLOOR PLAN
A-201	REFLECTED CEILING PLAN
A-301	EXTERIOR ELEVATIONS
A-401	WALL SECTIONS
A-501	EXTERIOR DETAILS
A-502	EXTERIOR DETAILS
S-000	STRUCTURAL NOTES
S-001	SPECIAL INSPECTION TABLES & ABBREVIATIONS
S-002	PARTIAL DEMOLITION PLAN
S-003	FOUNDATION PLAN
S-004	STRUCTURAL FLOOR PLAN
S-005	2ND FLOOR FRAMING PLAN
S-006	ROOF FRAMING PLAN
S-007	FOUNDATION DETAILS
S-008	DETAILS
S-009	STRUCTURAL DETAILS
S-010	STEEL FRAMING DETAILS
S-011	BRACE DETAILS
S-012	OVERHEAD DOOR INFILL DET/MECH WALL PENETRATIONS
S-013	WALL PIER ELEVATIONS & SHORING DIAGRAM
M-001	SYMBOLS & SCHEDULES
M-002	SCHEDULES
M-101	FLOOR PLANS - PIPING - DEMOLITION
M-102	FLOOR PLANS - HEATING & VENTILATION - DEMOLITION
M-201	FLOOR PLANS - PIPING
M-202	FLOOR PLANS - HEATING
M-203	FLOOR PLANS - VENTILATION
M-204	FLOOR PLANS - SPRINKLER PIPING
M-301	ENLARGED PLANS
M-401	DETAILS & DIAGRAMS
M-402	DETAILS
M-501	CONTROLS
E-001	LEGEND
E-002	SITE PLAN
E-101	1ST FLOOR PLAN - DEMOLITION
E-102	2ND FLOOR PLAN - DEMOLITION
E-201	1ST FLOOR PLAN - POWER
E-202	2ND FLOOR PLAN - POWER
E-203	SCHEDULES AND SINGLE LINE DIAGRAM
E-204	SCHEDULES
E-301	1ST FLOOR PLAN - LIGHTING
E-302	2ND FLOOR PLAN - LIGHTING
E-303	LUMINAIRE SCHEDULE / DETAILS
E-401	1ST FLOOR PLAN - LOW VOLTAGE
E-402	2ND FLOOR PLAN - LOW VOLTAGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

STATE OF ALASKA 49TH DUANE ANDERSON CE 4774 REGISTERED PROFESSIONAL ENGINEER

APPROVED: 3/9/16
REGIONAL PRECONSTRUCTION ENGINEER L. PAT CARROLL, P.E. DATE

APPROVED: FOR 3/9/16
DIRECTOR, SOUTHCOAST REGION MICHAEL J. COFFEY DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

DESIGNED
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-001	V-105

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GENERAL NOTES

1. THESE FIGURES ARE INTENDED TO BE USED WITH SECTION 02 26 00 IN COORDINATION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWING LEGEND KEY AND GENERAL NOTES APPLY TO ALL HAZARDOUS MATERIALS (V) SHEETS.
3. ABATEMENT OF HAZARDOUS MATERIALS IS NOT A SPECIFIC OBJECTIVE OF THESE CONTRACT DOCUMENTS. ABATEMENT AND/OR REMEDIATION OF HAZARDOUS MATERIALS IS ONLY NECESSARY TO THE EXTENT THE CONTRACTOR'S ACTIVITIES IMPACT THE HAZARDOUS MATERIALS PRESENT. THE CONTRACTOR MUST SUBMIT DETAILED PLANS INDICATING METHODS TO ASSESS, CONTAIN, ABATE, COLLECT, HANDLE AND DISPOSE OF ALL WASTE AND HAZARDOUS MATERIALS ASSOCIATED WITH COMPLETING THE PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS.
4. UNLESS A BALLAST IS CLEARLY LABELED AS "NON PCB CONTAINING," THE BALLAST SHALL BE CONSIDERED A PCB-CONTAINING BALLAST
5. MERCURY CONTAINING THERMOSTATS AND SMOKE DETECTORS WITH RADIOLOGIC MATERIALS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. LEAD IN PAINT CONCENTRATIONS FOR TESTED SURFACES INDICATE THAT DEMOLITION DEBRIS IS NON HAZARDOUS FOR LEAD WHEN THE PAINT AND SUBSTRATE ARE REMOVED AND DISPOSED OF TOGETHER (COMPONENT REMOVAL).
7. ALL DEMOLITION, ABATEMENT, AND DISPOSAL OF ACM SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE CONTRACT DOCUMENTS.
8. FRIABLE ACM AND NON-FRIABLE ACM THAT MAY BECOME FRIABLE DURING THE PROJECT, SHALL BE ABATED, OR REMOVED AND DISPOSED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND SECTION 02 26 00.
9. ACM FLOORING IS DEPICTED ON THE DRAWINGS AS ONE HATCH STYLE THIS MAY INCLUDE MORE THAN ONE COLOR OR TYPE OF ACM CONTAINING FLOORING INCLUDING: 12X12 TILES, 9X9 TILES, SHEET VINYL FLOORING AND/OR BLACK MASTIC.
10. CONTRACTOR SHALL ASSUME THAT ACM TSI FITTINGS AND INSULATION MAY BE PRESENT IN THE HIDDEN CHASES THAT SERVE PLUMBING FIXTURES SUCH AS TOILETS, SINKS, ETC. AND IN HIDDEN SPACES ABOVE GYPSUM WALLBOARD CEILINGS. CONTRACTOR SHALL COMPLETE DESTRUCTIVE TESTING OF HIDDEN SPACES PRIOR TO WORK IN THESE PLACES AS NECESSARY TO COMPLETE PROJECT.
11. CONTRACTOR SHOULD REFER TO THE CONTRACT DOCUMENTS FOR AVAILABLE INFORMATION ON BUILDING CONDITIONS.
12. GENERAL BUILDING DESCRIPTION IS DESCRIBED IN SECTION 02 26 00.
13. CONTRACTOR SHALL PROTECT MATERIALS NOT IMPACTED BY THE PROJECT. RESTORE TO ORIGINAL CONDITION ALL WORK DAMAGED OR OTHERWISE MADE DEFECTIVE IN APPEARANCE OR FUNCTION BY THE EXECUTION OF WORK REQUIRED BY THIS PROJECT.
14. REMOVE AND PROPERLY DISPOSE OF ALL MATERIALS AND MISCELLANEOUS DEBRIS RESULTING FROM THE PROJECT. ALL REMOVED ITEMS AND MATERIALS SHALL BE MANIFESTED AND DISPOSED OF IN A LEGAL MANNER, COMPLYING WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
15. THE CONTRACTOR SHALL PROVIDE RECEIPTS TO THE OWNER/ENGINEER INDICATING THE FINAL DISPOSITION OF ALL MATERIALS. ALL MATERIALS REQUIRING A CHAIN OF CUSTODY WILL REMAIN IN THE CUSTODY OF THE CONTRACTOR UNTIL FINAL DISPOSITION. THE DEPARTMENT IS OWNER OF ONLY THOSE ITEMS DESIGNATED TO REMAIN AND WILL NOT BE SIGNATORY TO A MANIFEST, CERTIFICATE OF FINAL DISPOSITION OR TRANSFER, OR CHAIN OF CUSTODY FOR ITEMS SCHEDULED FOR DEMOLITION OR REMOVAL. RECEIPTS FOR ALL MATERIALS TRANSPORTED OFF SITE TO A PERMITTED FACILITY FOR DISPOSAL, REMEDIATION, OR TESTING WILL BE TRANSMITTED BY THE CONTRACTOR TO THE ENGINEER WITHIN 24 HOURS OF DELIVERY TO THE PERMITTED FACILITY.
16. CONTAMINATED SOIL IS PRESENT NEAR THE EXISTING DISPENSER ISLANDS AND AT THE CONNEX STORAGE AREA. EXCAVATION IN THESE AREAS MUST BE COMPLETED UNDER A WORK PLAN APPROVED BY THE OWNER/ENGINEER.

ACRONYM KEY

ACM-ASBESTOS CONTAINING MATERIAL

VAT-VINYL ASBESTOS TILE

LBP-LEAD BASED PAINT

CAB-CEMENT ASBESTOS BOARD

CMU-CEMENT MASONRY UNIT

GWB-GYSPUM WALLBOARD

TEM-TRANSMISSION ELECTRON MICROSCOPY

PCB-POLYCHLORINATED BIPHENYLS

TCLP-TOXICITY CHARACTERISTIC LEACHING PROCEDURE

RACM-REGULATED ASBESTOS CONTAINING MATERIAL

TSI-THERMAL SYSTEMS INSULATION

RCRA-RESOURCE CONSERVATION AND RECOVERY ACT

PC-POINT COUNT

LEGEND

- 0123 — ASBESTOS SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
- 0123 — ASBESTOS SAMPLE LOCATIONS POSITIVE (>= 1% ASBESTOS)

} SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER

- 0123 — LEAD BASED PAINT SAMPLE (<1mg/cm²)(HUD)
- 0123 — LEAD BASED PAINT SAMPLE (>mg/cm²)(HUD)

} SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

- ACM FLOORING
- CEMENT ASBESTOS BOARD (CAB)
- BOLLARD

List of Sheets	
V-001	Notes and Legend
V-101	Soil Sample Locations and Results
V-102	Asbestos Sample Locations and Results - First Floor
V-103	Lead Sample Locations and Results - First Floor
V-104	Asbestos Sample Locations and Results - Second Floor
V-105	Lead Sample Locations and Results - Second Floor

Hazardous Materials Quantities Table		
TSI Hard Fittings	300	Each
Flooring w/Mastic	5,000	Square Feet
Cement Asbestos Board of Exterior Wall	110	Square Feet
GWB System with 2% ACM Joint Compound	1	Throughout
Thermostats w/Mercury	6	Each
Fluorescent Lamps/Bulbs w/Mercury	325	Each
PCB containing Ballasts (Assumed)	75	Each

VICINITY MAP

NOTES AND LEGEND

STATE OF ALASKA
49 TH
Peter Beardsley
CE 10934
2/10/16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

NOTES AND LEGEND

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-101	V-105

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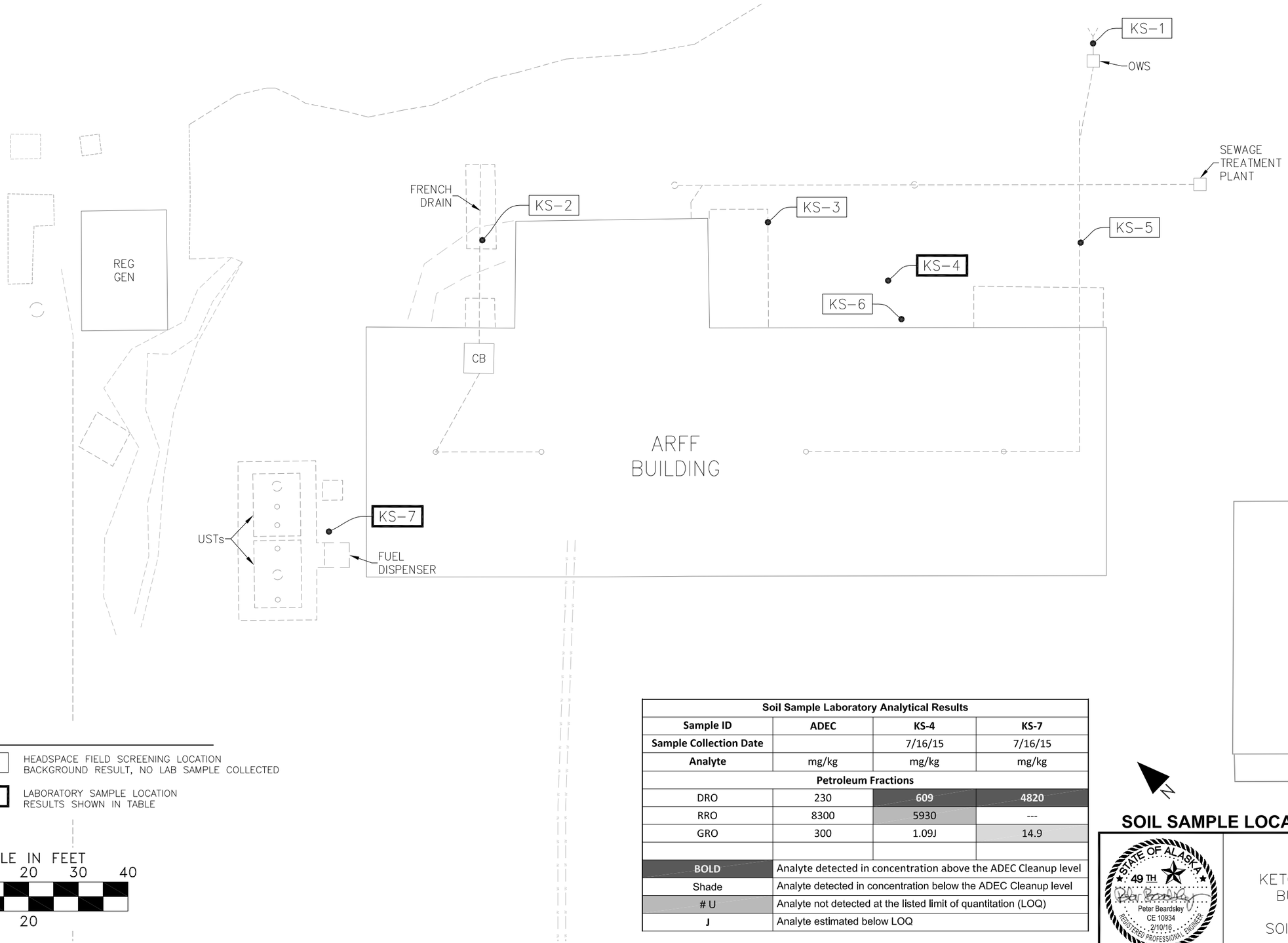

LEGEND

0123 — HEADSPACE FIELD SCREENING LOCATION
BACKGROUND RESULT, NO LAB SAMPLE COLLECTED

0123 — LABORATORY SAMPLE LOCATION
RESULTS SHOWN IN TABLE

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Soil Sample Laboratory Analytical Results

Sample ID	ADEC	KS-4	KS-7
Sample Collection Date		7/16/15	7/16/15
Analyte	mg/kg	mg/kg	mg/kg
Petroleum Fractions			
DRO	230	**609**	**4820**
RRO	8300	5930	---
GRO	300	1.09J	14.9

BOLD	Analyte detected in concentration above the ADEC Cleanup level
Shade	Analyte detected in concentration below the ADEC Cleanup level
# U	Analyte not detected at the listed limit of quantitation (LOQ)
J	Analyte estimated below LOQ

SOIL SAMPLE LOCATIONS AND RESULTS

STATE OF ALASKA
49 TH
Peter Beardsley
CE 10934
2/10/16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

SOIL SAMPLE LOCATIONS
AND RESULTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-102	V-105

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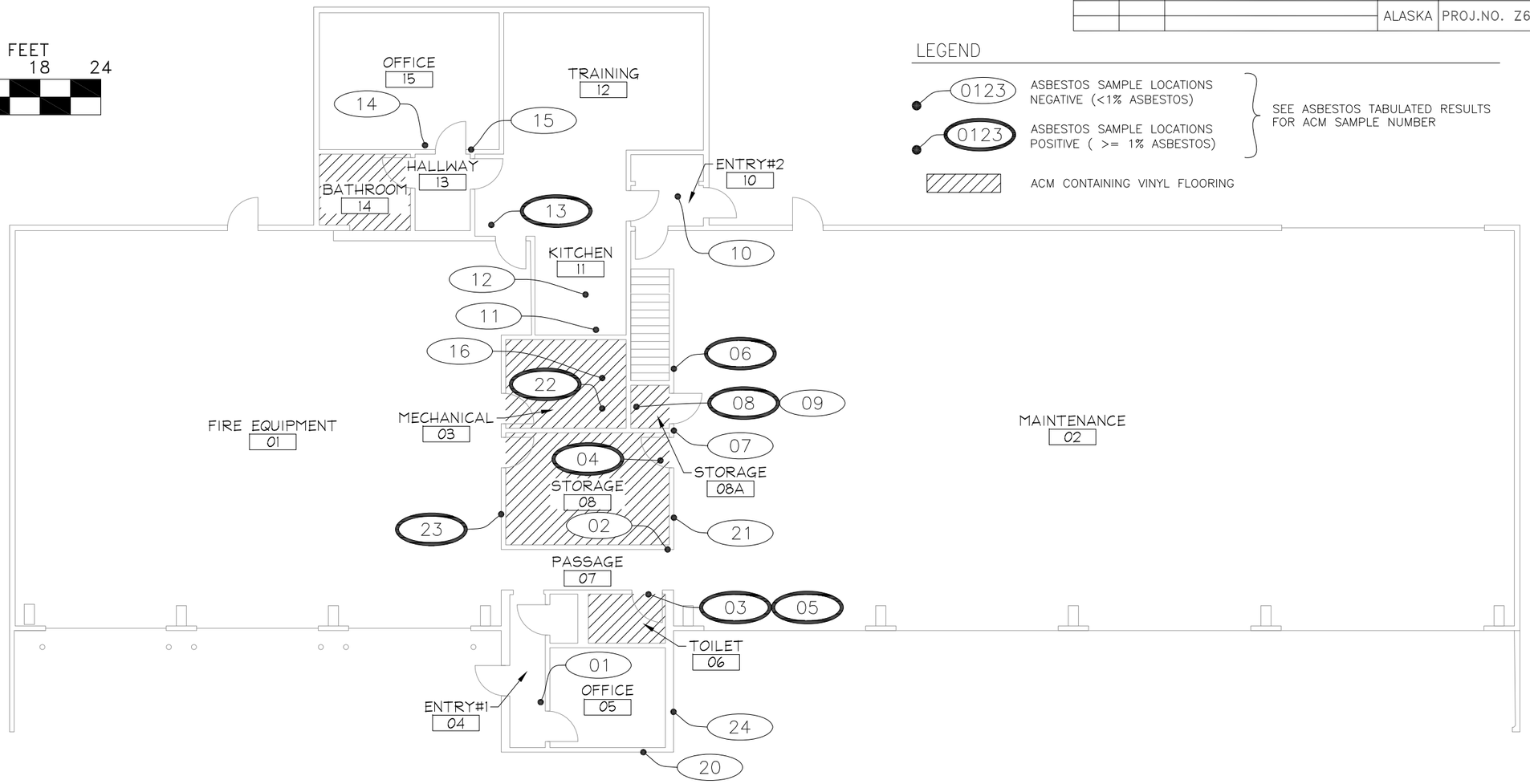

LEGEND

- 0123 — ASBESTOS SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
- 0123 — ASBESTOS SAMPLE LOCATIONS POSITIVE (>= 1% ASBESTOS)

SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER

ACM CONTAINING VINYL FLOORING

Table 1: Asbestos Sample Results - Ketchikan ARFF Hazmat Survey

Sample	DESCRIPTION	SAMPLE LOCATION	LAB RESULTS	COMMENTS
KDOT-1	Black Fibrous; Gray Foam	Carpet	Neg	75% Synthetic
KDOT-1	Yellow Adhesive	Mastic	Neg	2% Cellulose
KDOT-2	Black Vinyl	Cove Base	Neg	100% Non-Fibrous
KDOT-2	Brown Adhesive	Mastic	Neg	1% Cellulose
KDOT-3	**Tan Vlnyl; Tan FIbrous**	**Linoleum**	**20% Chrysotile**	**20% Cellulose**
KDOT-3	**Yellow Adhesive**	**Mastic**	**2% Chrysotile**	**3% Cellulose**
KDOT-4	**Tan Vinyl: Tan Fibrous**		**20%Chrysotile**	**20% Cellulose**
KDOT-5	**White Granular; Tan Fibrous; White Paint**		**Trace <1% Chrysotile**	**21% Cellulose**
KDOT-6	**Tan Granular; Tan Fibrous; White Paint**		**Trace <1% Chrysotile**	**20% Cellulose**
KDOT-7	Brown Powder; Brown Fibrous; White Granular		Neg	20% Cellulose
KDOT-8	**Gray Powder**		**Trace <1% Chrysotile 3% Amosite**	**1% Cellulose, 11% Fibrous Glass**
KDOT-9	Yellow Fibrous		Neg	96% Fibrous Glass
KDOT-10	White Vinyl	Tile	Neg	100% Non-Fibrous
KDOT-10	Brown Adhesive	Mastic	Neg	8% Cellulose

Table 1 continued: Asbestos Sample Results - Ketchikan ARFF Hazmat Survey

Sample	DESCRIPTION	SAMPLE LOCATION	LAB RESULTS	COMMENTS
KDOT-11	White Adhesive		Neg	100% Non-Fibrous
KDOT-12	Yellow Brittle; Brown Fibrous	Formica	Neg	35% Cellulose
KDOT-12	Yellow Adhesive	Mastic	Neg	6% Cellulose
KDOT-13	**White Powder; Brown Fibrous; White Granular**		**Trace <1% Chrysotile**	**20% Cellulose**
KDOT-14	Brown Vinyl	Cove Base	Neg	100% Non-Fibrous
KDOT-14	Brown Adhesive	Mastic	Neg	2% Cellulose
KDOT-15	White/Blue Fibrous	Carpet	Neg	96% Synthetic
KDOT-15	Tan Adhesive	Mastic	Neg	7% Synthetic
KDOT-16	Gray Metallic; Tan Adhesive		Neg	2% Cellulose, 4% Synthetic
KDOT-20	Brown Adhesive		Neg	100% Non-Fibrous
KDOT-21	Gray Granular; White Paint		Neg	100% Non-Fibrous
KDOT-22	**Gray Powder; Tan Fibrous**		**Trace <1% Chrysotile 3% Amosite**	**34% Cellulose, 6% Fibrous Glass**
KDOT-23	**Tan Granular**		**2% Chrysotile**	**98% Non-Fibrous**
KDOT-24	Tan Rubbery		Neg	100% Non-Fibrous

N

ASBESTOS SAMPLE LOCATIONS AND RESULTS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

ASBESTOS SAMPLE LOCATIONS AND RESULTS – FIRST FLOOR

STATE OF ALASKA 49 TH Peter Beardsley CE 10934 2/10/16 REGISTERED PROFESSIONAL ENGINEER

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-103	V-105

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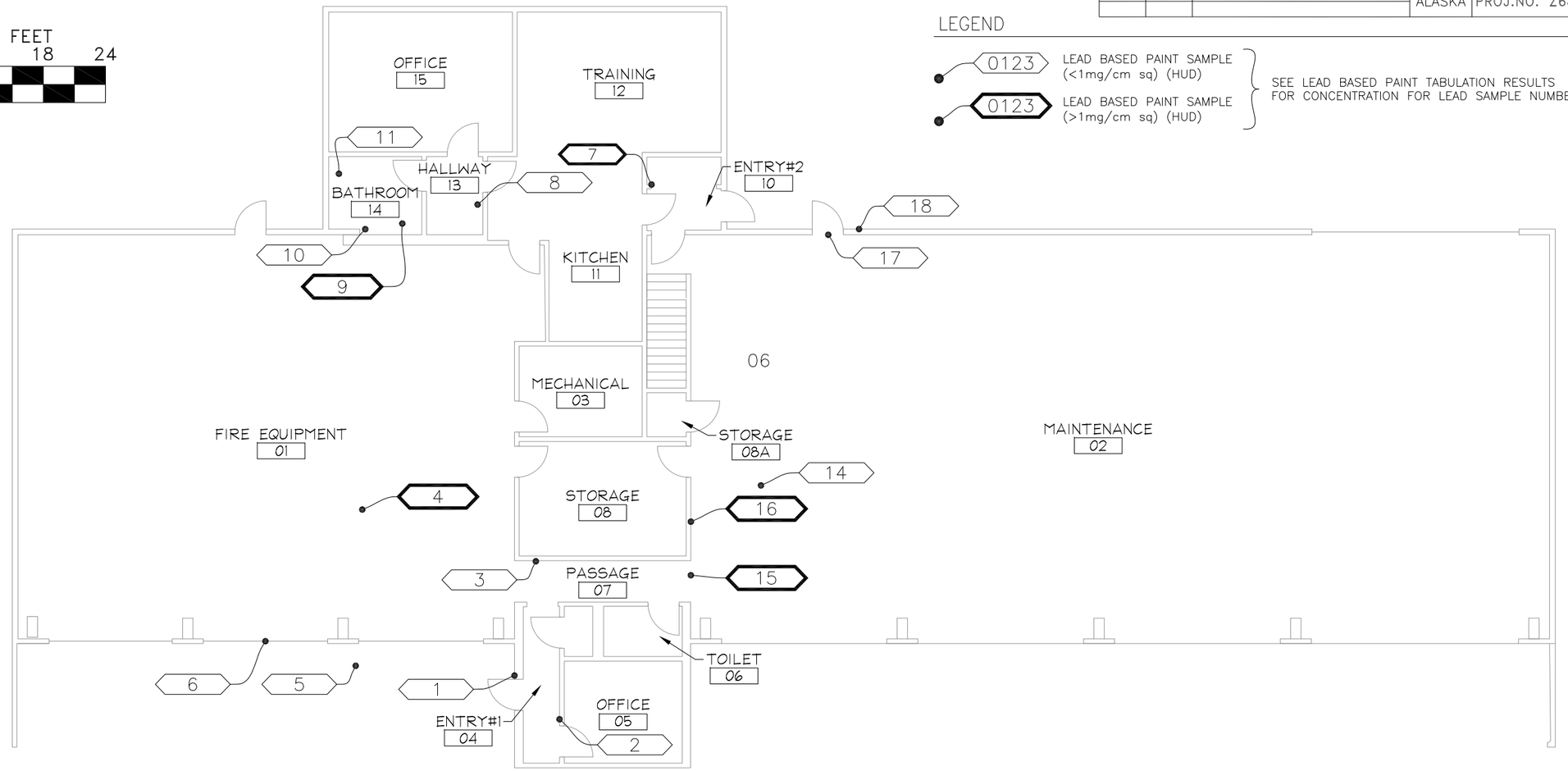

LEGEND

0123 LEAD BASED PAINT SAMPLE (<1mg/cm sq) (HUD)

0123 LEAD BASED PAINT SAMPLE (>1mg/cm sq) (HUD)

SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

Table 2: Lead XRF Analysis Results - Ketchikan ARFF Hazmat Survey

NIton #	Room #	Feature	Substrate	Color	Pos/Neg	Lead (mg/cm2)
1	4	Paint	Entry #1 Door	Blue	Neg	0.7
2	5	Paint	Office 05	Gray	Neg	0.0
3	7	Paint	Passage 07	White	Neg	0.0
4	**1**	**Paint**	**Fire Equipment Bay**	**Yellow**	**Pos**	**3.6**
5	outside 1	Paint	bollards	Red	Neg	0.2
6	1	Paint	Fire Eq. Bay Door	Red	Neg	0.1
7	**10**	**Paint**	**Entry #2 wall**	**White**	**Pos**	**1.0**
8	13	Paint	Hallway 13	White	Neg	
9	**14**	**Sink**	**Bath 14**		**Pos**	**34.0**
10	14	Toilet	Bath 14		Neg	0.1

Table 2 continued: Lead XRF Analysis Results - Ketchikan ARFF Hazmat Survey

NIton #	Room #	Feature	Substrate	Color	Pos/Neg	Lead (mg/cm2)
11	14	Wall	Bath 14		Neg	0.0
13	6	Sink	Bath 06		Neg	0.0
14	4	Paint	Maintenance Area	Yellow	Neg	0.0
15	**4**	**Paint**	**Maintenance Area**	**Yellow**	**Pos**	**4.4**
16	**4**	**Wash sink**	**Maintenance Area**		**Pos**	**7.7**
17	4	Door	Exit Door in Maint. Area	Gray	Neg	0.0
18	4	Paint	Exit Door in Maint. Area	Brown	Neg	0.0

GENERAL NOTES

1. RESULTS IN TABLE 2 ARE REPRESENTATIVE OF SIMILAR COLORS THROUGHOUT BUILDING, INCLUDING BOTH LEVELS
2. MOST POSITIVE RESULTS ARE RELATED TO HIGH VISIBILITY YELLOW PAINT, WHICH MAY HAVE BEEN PAINTED OVER IN SOME LOCATIONS.
3. POSITIVE WHITE PAINT RESULT IN SAMPLE #7 MAY BE RELATED TO PANELING SUBSTRATE THAT IS PRESENT IN ENTRY #2 (RM 10) AND ON WALL BETWEEN KITCHEN (RM 11) AND HALLWAY (RM 13). WHITE PAINT ON OTHER SUBSTRATES IS NEGATIVE FOR LEAD.

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LEAD SAMPLE LOCATIONS AND RESULTS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

LEAD SAMPLE LOCATIONS AND RESULTS – FIRST FLOOR

STATE OF ALASKA 49TH
Peter Beardsley
CE 10934
2/10/16
REGISTERED PROFESSIONAL ENGINEER

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-104	V-105

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V-104

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LEGEND

- 0123 — ASBESTOS SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
- 0123 — ASBESTOS SAMPLE LOCATIONS POSITIVE (>= 1% ASBESTOS)

SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER

- ACM CONTAINING VINYL FLOORING
- CEMENT ASBESTOS BOARD (CAB)

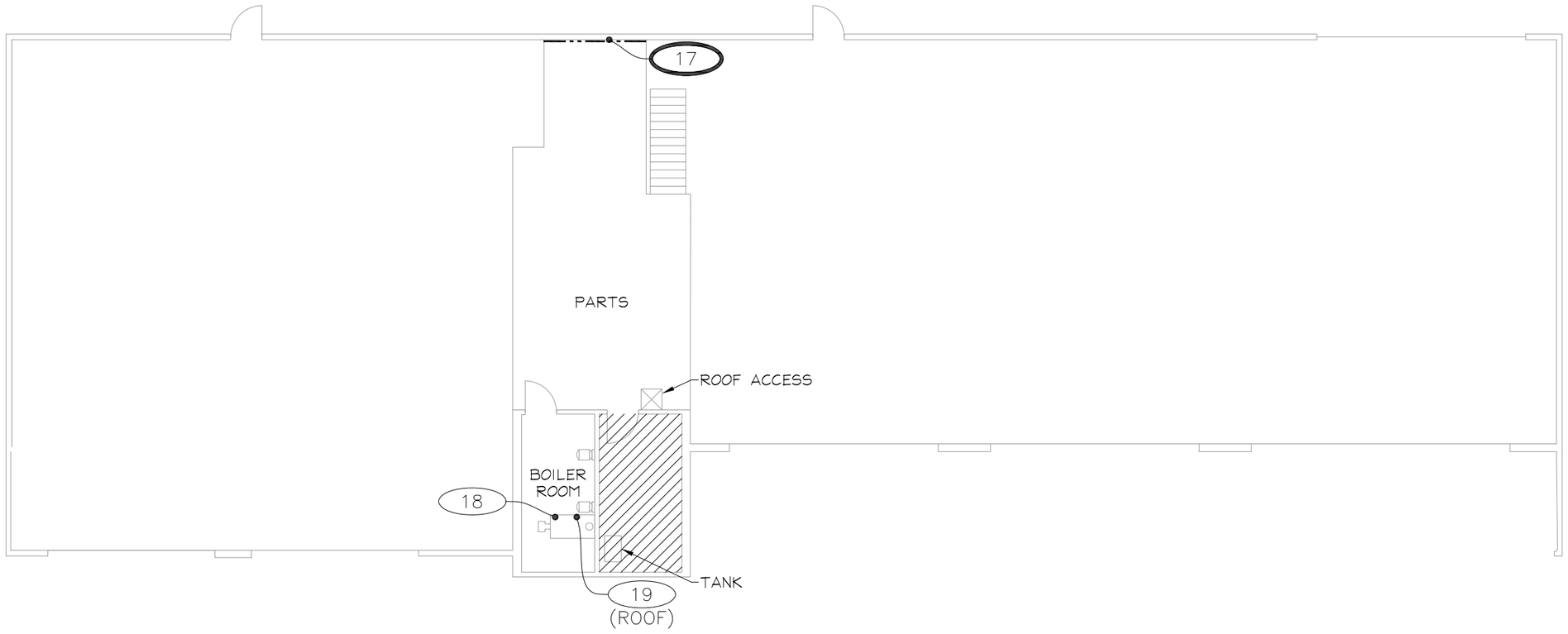

Table 1 continued: Asbestos Sample Results - Ketchikan ARFF Hazmat Survey

Sample	DESCRIPTION	SAMPLE LOCATION	LAB RESULTS	COMMENTS
KDOT-17	**Gray Cementitious; Brown Powder**		**20% Chrysotile**	**80% Non-Fibrous**
KDOT-18	White Fibrous; Brown Powder		Neg	98% Fibrous Glass
KDOT-19	Gray (boiler)	Roof	Neg	100% Non-Fibrous
KDOT-19	Yellow Adhesive (roof sealant)	Roof	Neg	2% Cellulose

N

ASBESTOS SAMPLE LOCATIONS AND RESULTS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

ASBESTOS SAMPLE LOCATIONS
AND RESULTS – SECOND FLOOR

STATE OF ALASKA
49 TH
Peter Beardsley
CE 10934
2/10/16
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ.NO. Z682300000	2016	V-105	V-105

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V-105

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LEGEND

0123 — LEAD BASED PAINT SAMPLE (<1mg/cm sq) (HUD)

0123 — LEAD BASED PAINT SAMPLE (>1mg/cm sq) (HUD)

SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

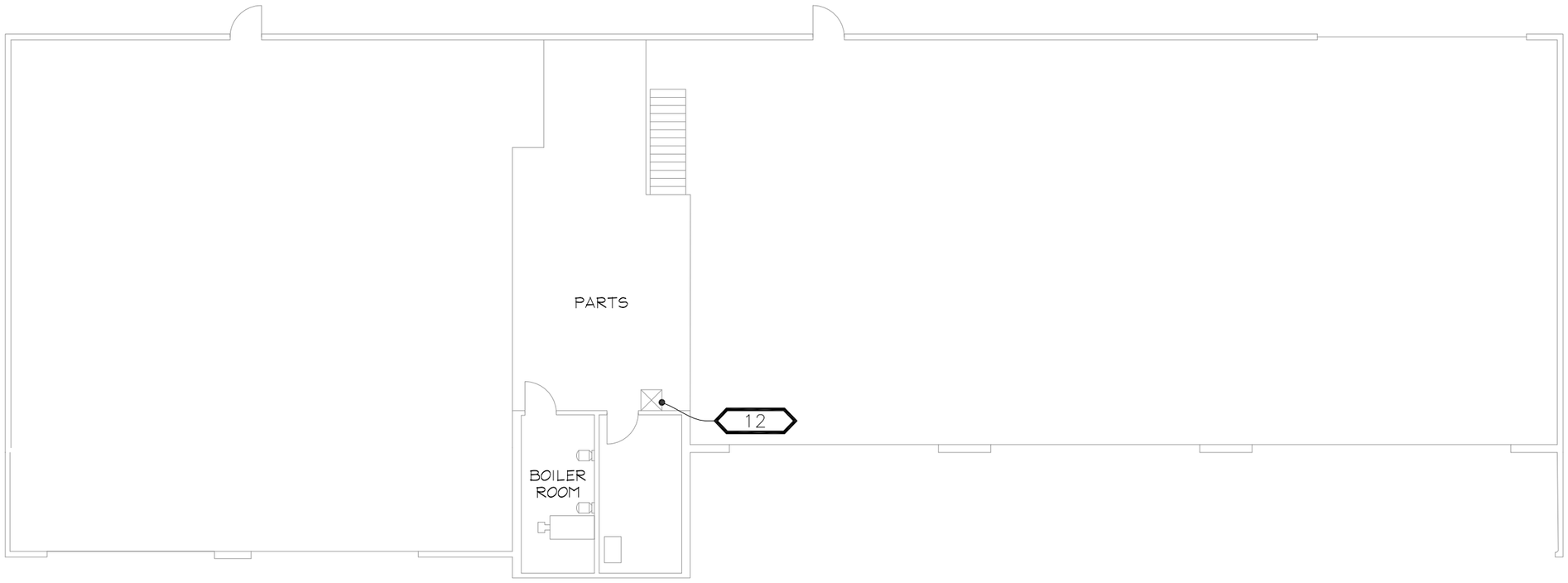


Table 2 continued: Lead XRF Analysis Results - Ketchikan ARFF Hazmat Survey

Niton #	Room #	Feature	Substrate	Color	Pos/Neg	Lead (mg/cm2)
12	Second Fl	Paint	Ladder to roof access	Yellow	Pos	2.0

N

LEAD SAMPLE LOCATIONS AND RESULTS

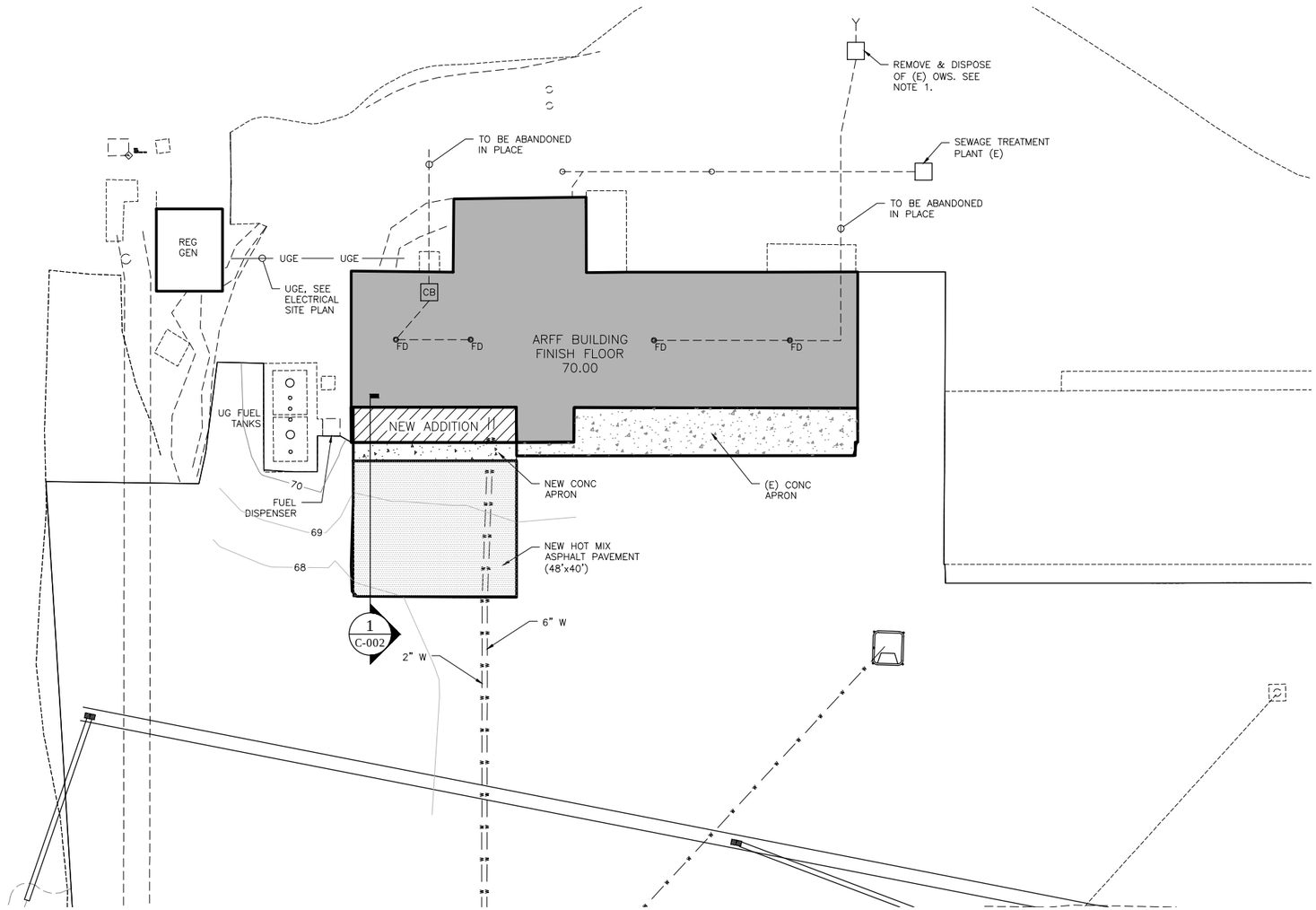
STATE OF ALASKA
Peter Beardsley
CE 10934
2/10/16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

LEAD SAMPLE LOCATIONS AND
RESULTS – SECOND FLOOR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	C-001	C-003



SITE PLAN

0 20' 40'

SCALE IN FEET

ORIGINAL BORDER SCALES 32"x21"
ADJUST SCALE ACCORDINGLY

CIVIL ABBREVIATIONS:

AC	ASPHALT CONCRETE
ARFF	AIRCRAFT RESCUE & FIRE FIGHTING
CB	CIRCUIT BREAKER
CONC	CONCRETE
(E)	EXISTING
EX	EXISTING
FD	FLOOR DRAIN
FDN	FOUNDATION
GEN	GENERATOR
OWS	OIL WATER SEPARATOR
REG	REGULATOR
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
W	WATER

DRAWING NOTES:

1. CONTRACTOR SHALL RETAIN A QUALIFIED ENVIRONMENTAL RECYCLING AND WASTE MANAGEMENT FIRM TO VACUMN TANK CONTENTS FOR TREATMENT AND DISPOSAL AND CLEAN AND DISPOSE OF THE TANK PER LOCAL, STATE AND FEDERAL REGULATIONS. SUBMIT FIRM QUALIFICATIONS AND DISPOSAL PLAN FOR REVIEW PRIOR TO ACCOMPLISHING THE WORK.

STATE OF ALASKA
49 TH
DUANE ANDERSON
CE 4774
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

SITE PLAN

DESIGNED
CHECKED
DRAFTED

XREFS

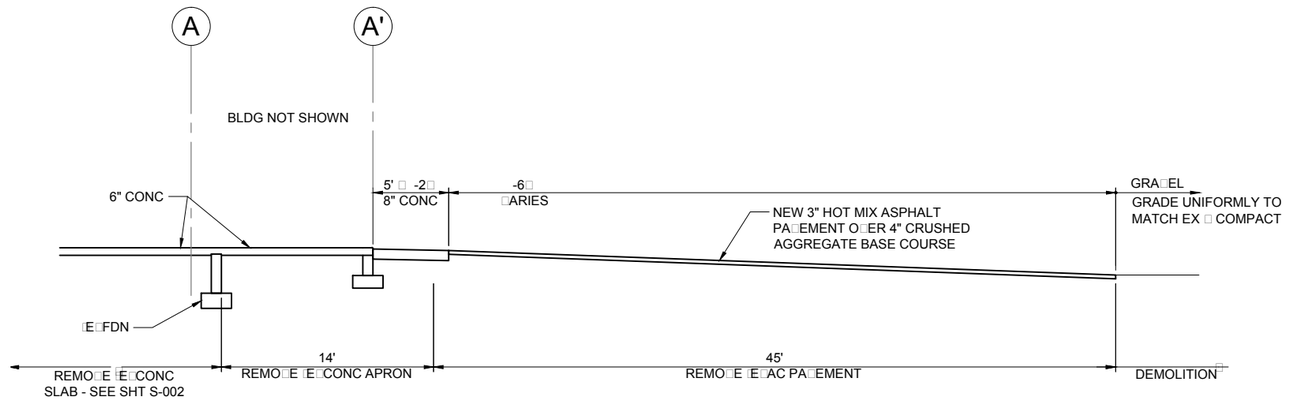
SCALE

LAYOUT
C-001

DATE TIME
2/9/2016 17:13

DRAWING LOCATION
Z:\project\1825.06 DOT_SE Term Ketchikan Airport ARFF Building Renovation\Civil\ACAD\1825.06 - C1 - Site Plan.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	C-002	C-003



1 SITE SECTION

S□□□□1" □ 5'

DESIGNED
CHECKED
DRAFTED

XREFS

SCALE

LAYOUT
C-002

DATE TIME
2/10/2016 15:29

DRAWING LOCATION
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STATE OF ALASKA
49 TH
DUANE ANDERSON
CE 4774
2.10.16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

SITE SECTION

DATE	DESIGNED	CHECKED	DRAFTED
3/9/2016 15:24	T. FAGNANT	C. TRIPP	T. FAGNANT

LAYOUT: C-003

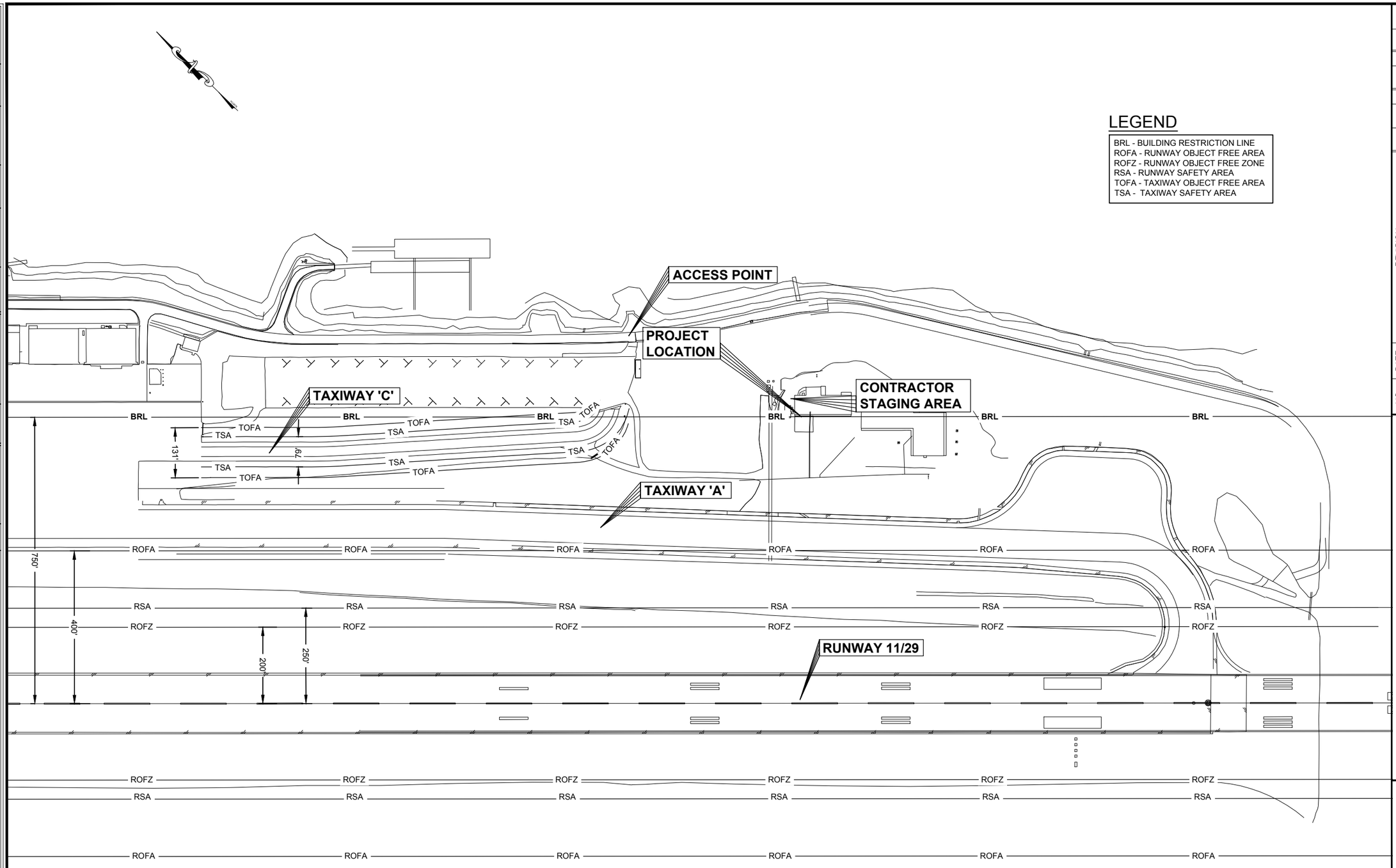
FILE: C:\Ktn\68230\Planset\68230_C3_CSPP.dwg

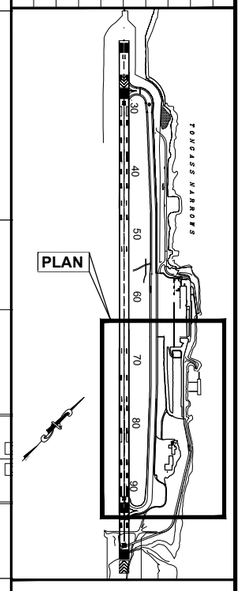
SHEET NO.	TOTAL SHEETS
C-003	C-003
STATE	YEAR
ALASKA	2016
PROJECT DESIGNATION	
Z682300000	

REVISION	DATE	NO.

LEGEND

BRL - BUILDING RESTRICTION LINE
ROFA - RUNWAY OBJECT FREE AREA
ROFZ - RUNWAY OBJECT FREE ZONE
RSA - RUNWAY SAFETY AREA
TOFA - TAXIWAY OBJECT FREE AREA
TSA - TAXIWAY SAFETY AREA





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SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
49th
Charles M. Tripp
CE-9613
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KTN AIRPORT ARFF
BUILDING RENOVATION
PROJECT #68230

CONSTRUCTION SAFETY AND PHASING PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-001	A-8

DESIGNED J.BOYER
CHECKED R.ROUNTREE
DRAFTED J.BOYER

XREFS

SCALE As indicated

LAYOUT ARCHITECTURAL ABBREVIATIONS, SYMBOLS, LEGENDS, & ASSEMBLIES

DATE & TIME 2/9/2016 2:54:23 PM

DRAWING LOCATION C:\Users\jproske\Documents\14-192_KTN ARFF-A-model_jboyer.rvt

SYMBOL LEGEND

BUILDING SECTION — 1 / A302
WALL SECTION — 1 / A401
EXTERIOR ELEVATION — 1 / A301
PARTIAL/ENLARGED PLAN OR DETAIL — 1 / A601
INTERIOR ELEVATION — 1 / 4 A701 2 / 3
DOOR NUMBER — 121A
WINDOW NUMBER — A
ROOM NAME — ROOM NAME
ROOM NUMBER — 100
WALL TYPE — 1A
GRID / COLUMN LINE DESIGNATOR — 0
SPOT ELEVATION — NAME / ELEVATION

MATERIAL LEGEND

BATT INSULATION
BLOCKING
CONTINUOUS BLOCKING
CONCRETE
GYPSUM BOARD
PLYWOOD
RIGID INSULATION
SOIL

CODE DATA

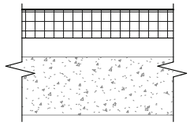
ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE CODES AND REGULATIONS, AND THE 2012 INTERNATIONAL BUILDING CODE.

INTERNATIONAL EXISTING BUILDING CODE:
SECTION 410: THIS PROJECT DOES NOT ALTER THE EXISTING PRIMARY FUNCTION OF THE BUILDING.
SECTION 504: LEVEL 2 ALTERATION.

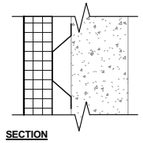
ARCHITECTURAL ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATE
BFF	BELOW FINISHED FLOOR
BNAP	BETTISWORTH NORTH ARCHITECTS AND PLANNERS
CBU	CEMENTITIOUS BACKER UNIT
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CUH	CABINET UNIT HEATER
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
EF-X	EXTERIOR FINISH (X INDICATES FINISH NUMBER
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	ENTRY MAT
EMW	ELASTOMERIC MEMBRANE WATERPROOFING
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EXT	EXTERIOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT TREATED
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB-X	GRAB BAR (IF PROVIDED, X INDICATES LENGTH IN INCHES)
GLB	GLULAM BEAM
GYP	GYPSUM BOARD
HB	HOSE BIB
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HW-X	HARDWARE (IF PROVIDED, X INDICATES HW GROUP)
ID	INSIDE DIAMETER
IHM	INSULATED HOLLOW METAL
INSUL	INSULATION
IRGYP	IMPACT-RESISTANT GYPSUM WALL BOARD
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM OR MINUTE
MIR	MIRROR
MISC	MISCELLANEOUS
MRGYP	MOISTURE RESISTANT GYPSUM BOARD
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
O.C.	ON CENTER
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFOI	OWNER FURNISHED/ OWNER INSTALLED
OPP	OPPOSITE
OTS	OPEN TO STRUCTURE
PLAM	PLASTIC LAMINATE
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER/RECEPTACLE
PVC	POLYVINYL CHLORIDE
P-X	PAINT (X INDICATES PAINT NUMBER)
RAD	RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR
REQ	REQUIRED
RF	RUBBER FLOORING
RFEC	RECESSED FIRE EXTINGUISHER CABINET
RFT	RESILIENT FLOOR TILE
RM	ROOM
RTU	ROOF TOP UNIT
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SLDS	SOLID SURFACE
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPEC	SPECIFICATION(S)
SSTL	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWI	SLOPE WITH INSULATION
SWS	SLOPE WITH STRUCTURE
T&G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TO CONC	TOP OF CONCRETE
TO SLAB	TOP OF SLAB
TO STEEL	TOP OF STEEL
TSCD	TOILET SEAT COVER DISPENSER
TTD	TOILET TISSUE DISPENSER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITE TILE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
WB	WEATHER BARRIER
WD	WOOD
WSCT	WAINSCOT

WALL TYPES



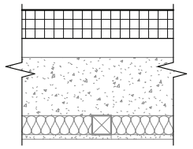
PLAN



SECTION

1 EXTERIOR WALL: INSULATED METAL PANELS

- 3" INSULATED METAL WALL PANEL
- 2" HAT CHANNELS PER STRUCTURAL
- (E) CONCRETE WALL



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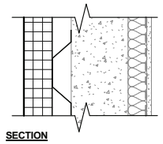
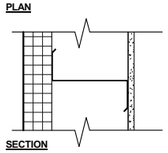


SECTION

2 EXTERIOR WALL: INSULATED METAL PANELS

- 3" INSULATED METAL WALL PANEL
- 2" HAT CHANNELS PER STRUCTURAL
- (E) CONCRETE WALL
- (E) WOOD STUDS WITH INSULATION
- (E) VAPOR BARRIER
- (E) GYPSUM WALL BOARD

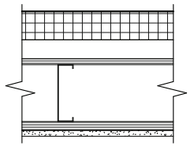
PLAN



SECTION

3 EXTERIOR WALL: INSULATED METAL PANELS

- 3" INSULATED METAL WALL PANEL
- 8" Z-GIRTS
- 5/8" IMPACT RESISTANT GYPSUM WALL BOARD



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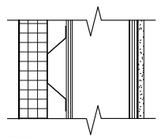


SECTION

4 EXTERIOR WALL: INSULATED METAL PANELS

- 3" INSULATED METAL WALL PANEL
- 2" HAT CHANNELS PER STRUCTURAL
- 5/8" PLYWOOD
- 6" METAL STUDS, 16" O.C.
- 15/32" PLYWOOD
- 5/8" IMPACT RESISTANT GYPSUM WALL BOARD

STANDARD NOTES

1. ELECTRONIC MEDIA: THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED UTILIZING ELECTRONIC DRAFTING FORMATS OF AUTOCAD [VERSION 2014] AND/OR REVIT [VERSION 2014]. THE AVAILABILITY OF ELECTRONIC BASE FLOOR PLANS, AND/OR ANY OTHER RELATED DOCUMENT FOR USE BY THE GENERAL CONTRACTOR FOR THE USE ON THIS SPECIFIC PROJECT IS CONDITIONALLY GRANTED THROUGH PERMISSION OF THE A/E DESIGNER OF RECORD.

2. REFERENCE CODES: ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, STANDARDS, REGULATIONS, AND OTHER SUPPLEMENTAL AMENDMENTS RELATED TO THE JURISDICTIONS OF THE PROJECT, IN THEIR LATEST AND MOST RECENT ADOPTED EDITIONS, AND EFFECTIVE DATES.

3. VERIFY CONDITIONS: THE CONTRACTOR SHALL VERIFY ALL PROJECT-RELATED NEW AND/OR EXISTING CONDITIONS, INCLUDING DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. PROMPTLY NOTIFY THE ENGINEER OF RECORD, OWNER'S REPRESENTATIVE, AND/OR THE CONTRACTING OFFICER IN WRITING OF ALL DISCREPANCIES AND/OR UNKNOWN CONDITIONS OBSERVED.

4. DRAWING FORMAT: THESE CONSTRUCTION DOCUMENTS HAVE BEEN PRODUCED AT DRAWING SCALES THAT RELATE TO THEIR FULL-SIZE FORMAT 22x34 INCHES. ANY DEVIATIONS TO THIS FORMAT SIZE WILL PRODUCE DRAWINGS OUTSIDE OF THE SCALE LIMITS INDICATED. DRAWING REPRODUCTIONS IN ANY FORMAT SHOULD NOT BE SCALED FOR DIMENSIONAL ACCURACY. USE GRAPHIC SCALES ACCORDINGLY.

5. HAZARDOUS MATERIALS: THIS PROJECT CONTAINS AND REQUIRES THE REMEDIATION/ABATEMENT OF DESIGNATED HAZARDOUS MATERIALS CONSISTING OF ASBESTOS CONTAINING MATERIALS (ACM), LEADBASED PAINT (LBP), AND BALLAST CONTAINING PCBS, AS INDICATED IN PROJECT HAZARDOUS MATERIALS REPORT DATED AUGUST 2015. CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL, HANDLING AND DISPOSAL OF ALL MATERIALS, IN ACCORDANCE WITH ALL EPA, OSHA, GOJ, AND ANY OTHER RELATED REGULATIONS.

6. SELECTIVE DEMOLITION: THIS PROJECT INVOLVES THE SELECTIVE DEMOLITION OF EXISTING FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL AS MANDATED IN THE DOCUMENTS. ALL DEMOLISHED MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSITION OF ALL SUCH MATERIALS WILL BE DISPOSED OF OFF-SITE AT AN APPROVED DISPOSAL SITE. *NOTE: THE PRESENCE OF ANY HAZARDOUS MATERIALS MUST BE TAKEN INTO CONSIDERATION.*

7. FIELD-VERIFICATION: CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. PROMPTLY NOTIFY THE ENGINEER OF RECORD, OWNER'S REPRESENTATIVE, AND/OR THE CONTRACTING OFFICER IN WRITING OF ALL DISCREPANCIES OF NEW OR EXISTING CONDITIONS.

8. DIMENSIONING GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METAL/WOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS BETWEEN SURFACES WILL BE NOTED WHERE APPLICABLE FROM MATERIAL FINISHES. ALL DIMENSIONS REFERENCED HEREIN ARE IMPERIAL STANDARDS, UNLESS OTHERWISE NOTED. FOR THE PURPOSE OF THIS PROJECT, ALL DIMENSIONS HEREIN SHALL BE TREATED EQUALLY, WITHOUT ANY HIERARCHY, AND/OR ORDER OF PRECEDENCE, UNLESS OTHERWISE NOTED.

FINISH SCHEDULE

RM #	ROOM NAME	FLOOR MAT.	FLOOR FIN	FLOOR BASE	WALL 1 - NORTH MAT.	WALL 1 - NORTH FIN.	WALL 2 - EAST MAT.	WALL 2 - EAST FIN.	WALL 3 - SOUTH MAT.	WALL 3 - SOUTH FIN.	WALL 4 - WEST MAT.	WALL 4 - WEST FIN.	CEILING MAT.	CEILING FIN.	CEILING HGT.	REMARKS
01	FIRE EQUIPMENT	CONC	SEAL-1	RB-1					IRGYP	P-1						
02	MAINTENANCE			RB-1	IRGYP	P-1			IRGYP	P-1						
04	ENTRY #1															
05	OFFICE															
06	TLT															
07	PASSAGE															
08	STORAGE															
08A	STORAGE															
09	MECH.															
10	ENTRY #2															
11	KITCHEN															
12	TRAINING															
13	HALL															
14	BATH															
15	OFFICE															
101	STORAGE															
102	CLEAN RM															
103	BOILER															

FINISH LEGEND

SEAL-1 SEALED CONCRETE
P-1 PAINT: PAINT ON GYPSUM WALL BOARD
P-2 * PAINT: ACRYLIC ON METAL
P-3 PAINT: ACRYLIC ON GALVANIZED

* PAINT COLUMNS P-2

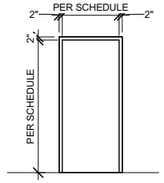
RB-1 RUBBER BASE

NOTE: ALL BLANK FIELDS IN FINISH SCHEDULE INDICATE (E) FINISHES TO REMAIN

DOOR SCHEDULE - NEW DOORS

DOOR #	ROOM NAME	DOOR WIDTH	DOOR HGT	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR HDW	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
001	FIRE EQUIPMENT	16' - 0"	15' - 0"	B	STL	FF	2	-	STL	P-3	2 / A501	5 / A501	9/ A501	
002	FIRE EQUIPMENT	16' - 0"	15' - 0"	B	STL	FF	2	-	STL	P-3	2 / A501	5 / A501	9 / A501	
003	FIRE EQUIPMENT	3' - 0"	7' - 0"	A	IHM	P-2	1	1	IHM	P-2	1 / A501	4 / A501	8 / A501	
004	MAINTENANCE	20' - 0"	15' - 0"	B	STL	FF	2	-	STL	P-3	3/ A501	5 / A501	9 / A501	
005	MAINTENANCE	16' - 0"	15' - 0"	B	STL	FF	2	-	STL	P-3	3/ A501	5 / A501	9 / A501	
006	MAINTENANCE	27' - 0"	15' - 0"	B	STL	FF	2	-	STL	P-3	3/ A501	5 / A501	9 / A501	

DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

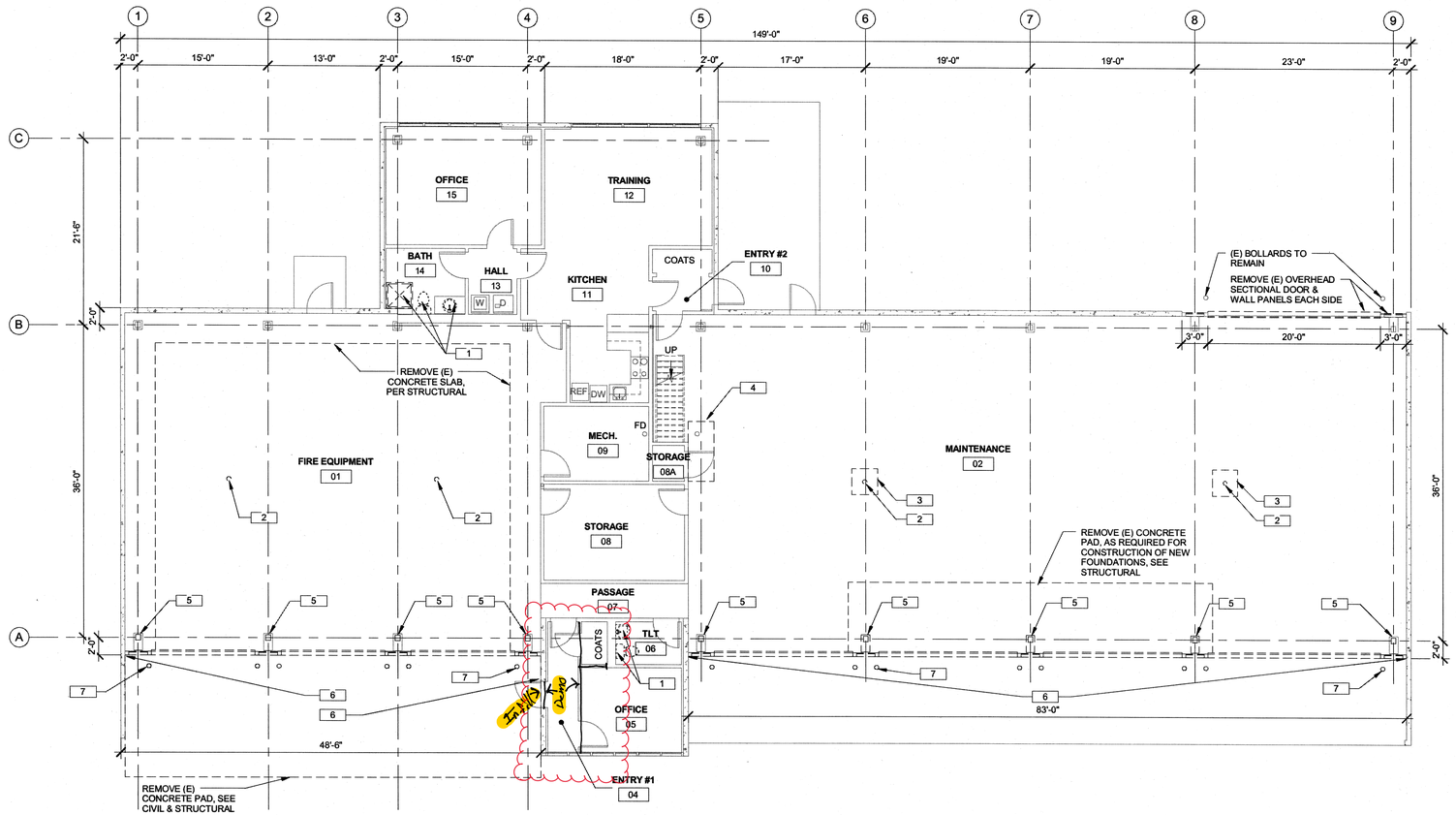
KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

ARCHITECTURAL ABBREVIATIONS, SYMBOLS, LEGENDS, & ASSEMBLIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-100	A-8

DEMOLITION PLAN NOTES:

1. REMOVE (E) PLUMBING FIXTURE, SEE MECHANICAL
2. REMOVE (E) FLOOR DRAIN, SEE MECHANICAL
3. SAWCUT (E) SLAB, SEE STRUCTURAL
4. SAWCUT (E) SLAB, SEE MECHANICAL FOR EXTENTS
5. REMOVE (E) COLUMN AND PILASTER, SEE STRUCTURAL
6. REMOVE (E) GLAZING, OVERHEAD SECTIONAL DOORS, AND EXTERIOR WALL
7. REMOVE (E) BOLLARDS, TYPICAL



1 A-100 1ST FLOOR PLAN - DEMOLITION

1/8" = 1'-0"

PLAN NORTH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

1ST FLOOR PLAN - DEMOLITION

STATE OF ALASKA — 49 TH — REGISTERED PROFESSIONAL ARCHITECT — No. A-8259 — ROBERT J. ROUNTREE — 2-10-2016

DRAWING LOCATION
C:\Users\jproskic\Documents\14-192_KTN ARFF-A-model_jboyer.rvt

DATE & TIME	2/9/2016 2:54:24 PM
LAYOUT	1ST FLOOR PLAN - DEMOLITION
SCALE	As indicated
XREFS	
DESIGNED	J.BOYER
CHECKED	R.ROUNTREE
DRAFTED	J.BOYER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-101	A-8

GENERAL FLOOR PLAN NOTES:

1. FIELD-VERIFICATION: CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. PROMPTLY NOTIFY THE ENGINEER OF RECORD, OWNER'S REPRESENTATIVE, AND/OR THE CONTRACTING OFFICER IN WRITING OF ALL DISCREPANCIES OF NEW OR EXISTING CONDITIONS.

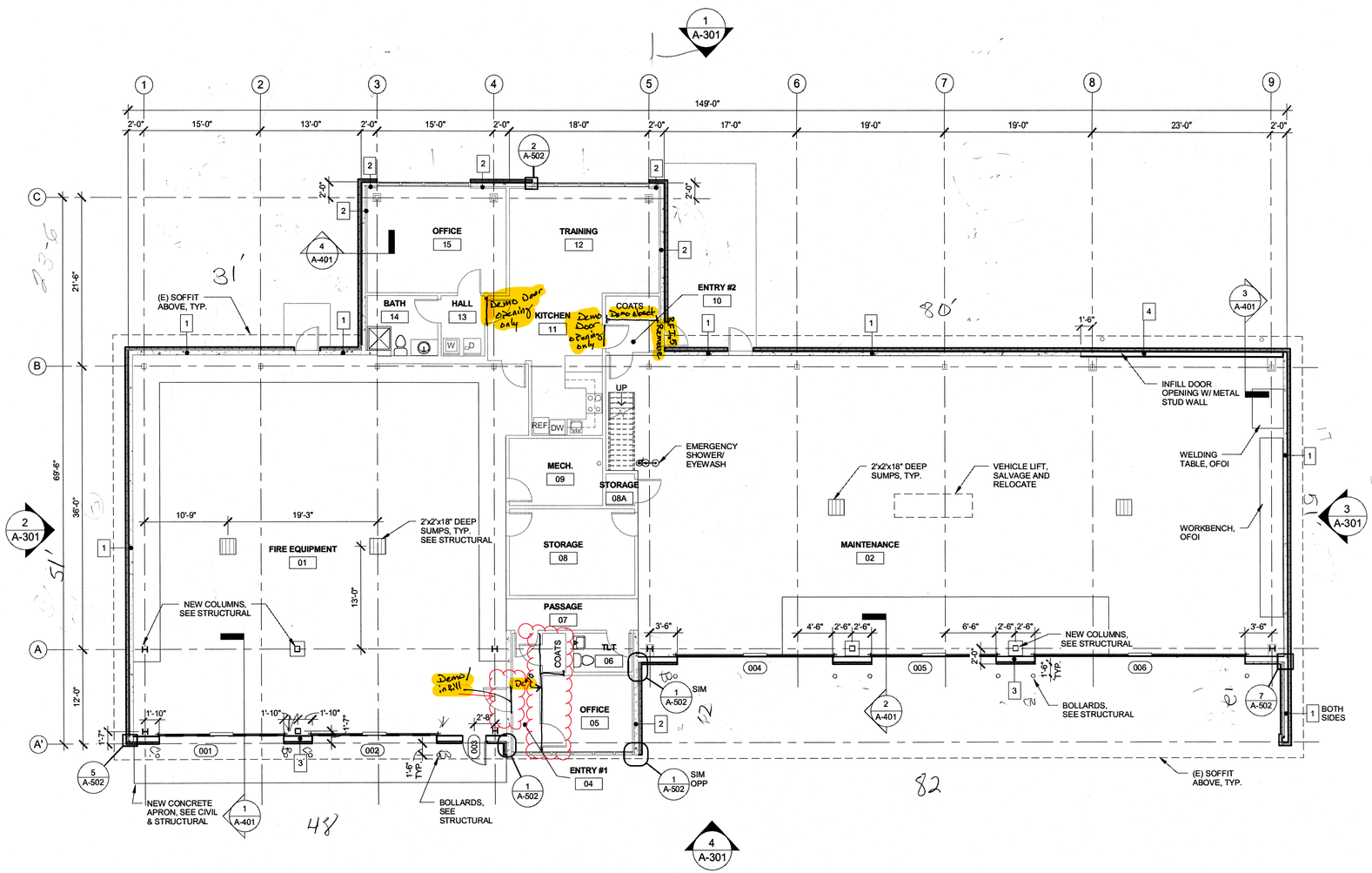
2. DIMENSIONING GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METAL/WOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS BETWEEN SURFACES WILL BE NOTED WHERE APPLICABLE FROM MATERIAL FINISHES. ALL DIMENSIONS REFERENCED HEREIN ARE IMPERIAL STANDARDS, UNLESS OTHERWISE NOTED. FOR THE PURPOSE OF THIS PROJECT, ALL DIMENSIONS HEREIN SHALL BE TREATED EQUALLY, WITHOUT ANY HIERARCHY, AND/OR ORDER OF PRECEDENCE, UNLESS OTHERWISE NOTED.

3. PARTITION/ WALL TYPES: SEE SHEET A001 FOR WALL ASSEMBLY TYPES.

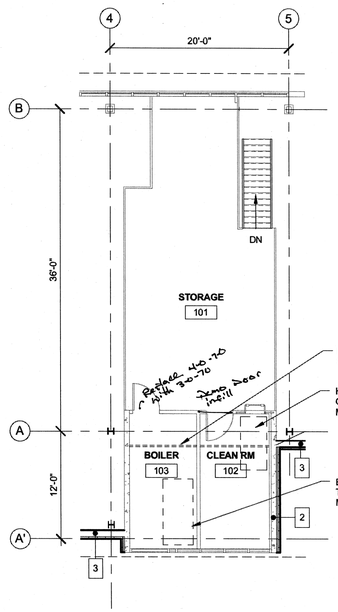
4. DOOR OPENINGS: ALL DOOR OPENINGS ARE DESIGNATED WITH REFERENCE NUMBERS CORRESPONDING TO A SEPARATE DOOR SCHEDULE. THIS MAY INCLUDE MISCELLANEOUS OPENINGS SUCH AS OVERHEAD SECTIONAL, COILING, OR SLIDING ASSEMBLIES. REFER TO SHEET A001 FOR THE DOOR OPENING SCHEDULE.

5. ROOM FINISHES: ALL ROOMS ARE DESIGNATED WITH REFERENCE ROOM NAMES/NUMBERS CORRESPONDING TO A SEPARATE ROOM FINISH SCHEDULE. REFER TO SHEET SERIES A001 FOR THE ROOM FINISH SCHEDULE.

6. REFLECTED CEILING PLAN: REFER TO SHEET A201 FOR THE CORRESPONDING RCP FOR THIS FLOOR PLAN AREA.



1 A-101 **1ST FLOOR PLAN**
1/8" = 1'-0"



2 A-101 **2ND FLOOR PLAN**
1/8" = 1'-0"

PLAN NORTH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

1ST FLOOR PLAN

STATE OF ALASKA
49TH
ROY L ROUNTREE
No. A-8259
2-10-2016
REGISTERED PROFESSIONAL ARCHITECT

DESIGNED JBOYER
CHECKED RROUNTREE
DRAFTED JBOYER

XREFS

SCALE: As indicated

LAYOUT: 1ST FLOOR PLAN

DATE & TIME: 2/9/2016 2:54:26 PM

DRAWING LOCATION
C:\Users\jproske\Documents\14-192_KTN ARFF-A-model_jboyer.rvt

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-201	A-8

DRAWING LOCATION: C:\Users\jproskol\Documents\14-192_KTN ARFF-A-model_jboyer.rvt

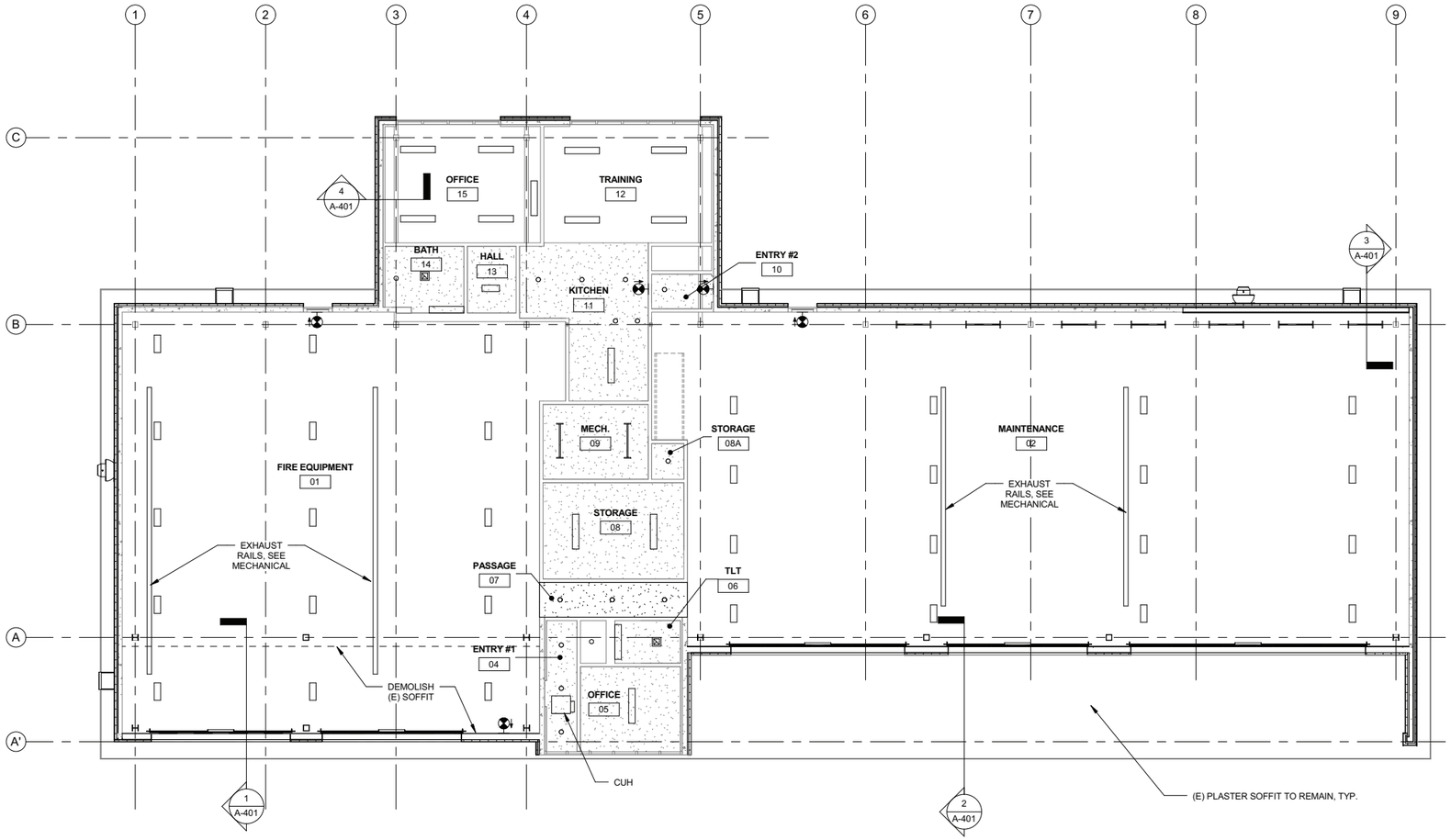
DATE & TIME: 2/9/2016 2:54:28 PM

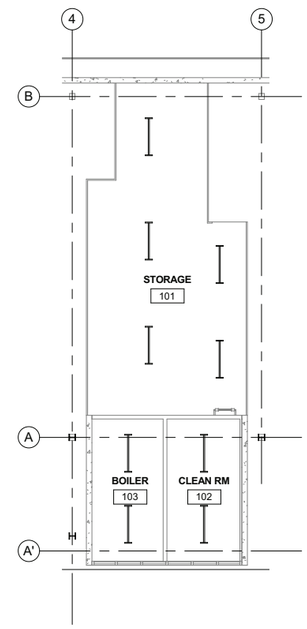
LAYOUT: REFLECTED CEILING PLANS

SCALE: 1/8" = 1'-0"

XREFS:

DESIGNED: J.BOYER
CHECKED: R.ROUNTREE
DRAFTED: J.BOYER





2 2ND FLOOR REFLECTED CEILING PLAN

2 / A-201 — 1/8" = 1'-0"

1 1ST FLOOR REFLECTED CEILING PLAN

1 / A-201 — 1/8" = 1'-0"

PLAN NORTH

CEILING LEGEND

GYP

OTS

SEE MECHANICAL AND ELECTRICAL FOR FIXTURES:

- RECESSED DOWNLIGHT
- LIGHT FIXTURE
- LIGHT FIXTURE
- EMERGENCY EXIT SIGN
- SUPPLY DIFFUSERS
- RETURN DIFFUSER

GENERAL CEILING NOTES

1. FIELD VERIFICATION: CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND VERTICAL CONTROL PRIOR TO THE COMMENCEMENT OF WORK. PROMPTLY NOTIFY THE ENGINEER OF RECORD, OWNER'S REPRESENTATIVE OR CONTRACTING OFFICER IN WRITING OF ALL DISCREPANCIES IN NEW AND/OR EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ABOVE CEILING WORK TO ENSURE CLEARANCES FOR SCHEDULED CEILING HEIGHTS.

2. DIMENSION GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METAL/WOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS WILL BE NOTED WHERE APPLICABLE FROM MATERIAL FINISHES.

3. CEILING HEIGHTS: ALL CEILINGS DESIGNATED ON THIS PLAN SHALL BE 8'-0" AFF, UNLESS OTHERWISE NOTED ON THE PLAN. ALL CEILING HEIGHTS CORRESPOND TO THE RESPECTIVE FINISH FLOOR ELEVATION/LEVEL.

4. CEILING FINISHES: ALL ROOMS ARE DESIGNATED WITH REFERENCE NAMES/NUMBERS CORRESPONDING TO A SEPARATE ROOM FINISH SCHEDULE. REFER TO SHEETS A001 FOR SCHEDULED CEILING FINISHES.

5. CEILING DEVICES: ALL CEILING LAYOUT PLANS SHOW MOST MAJOR MECHANICAL AND ELECTRICAL DEVICES. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL M/E DEVICES INCLUDED IN THE CEILING CONFIGURATION. CONTRACTOR TO COORDINATE LAYOUT OF ALL DEVICES.

6. PARTITION TYPES: PARTITION TYPES ARE REFERENCED ON THE CORRESPONDING FLOOR PLAN SHEETS A101 AND A111 FOR THIS AREA, AND SCHEDULED ON SHEET A001.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

REFLECTED CEILING PLANS

STATE OF ALASKA — 49 TH — REGISTERED ARCHITECT — PROFESSIONAL — 2-10-2016

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-301	A-8

DESIGNED J.BOYER
CHECKED R.ROUNTREE
DRAFTED J.BOYER

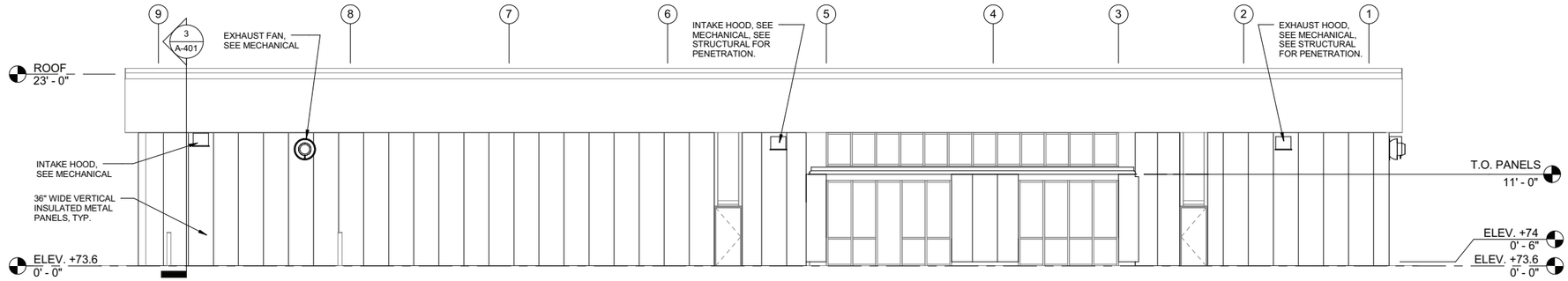
XREFS

SCALE 1/8" = 1'-0"

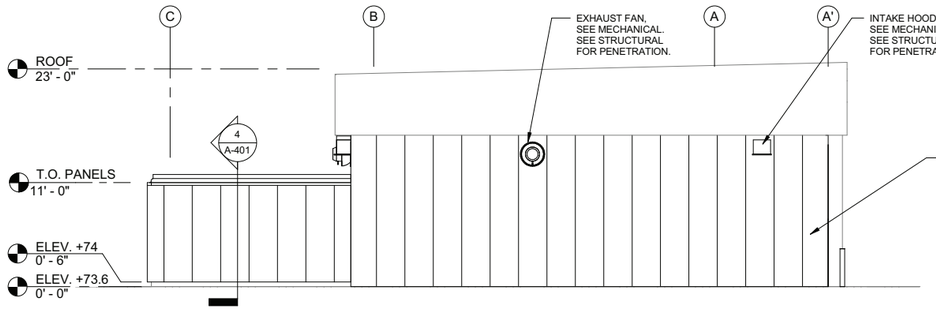
LAYOUT EXTERIOR ELEVATIONS

DATE & TIME 2/9/2016 2:54:30 PM

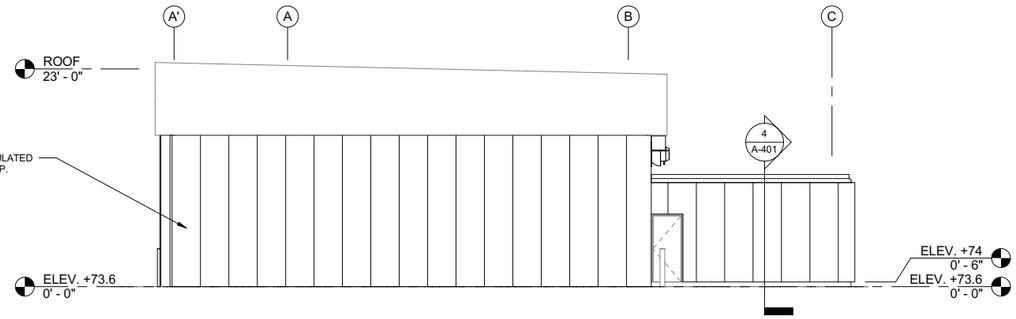
DRAWING LOCATION C:\Users\jproske\Documents\14-192_KTN ARFF-A-model_Jboyer.rvt



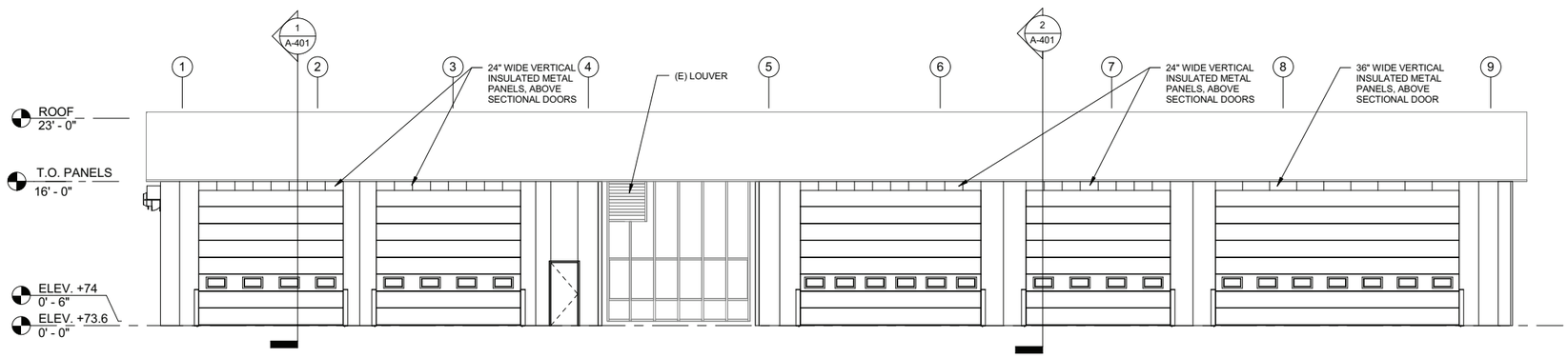
1 A-301 NORTH ELEVATION
1/8" = 1'-0"



2 A-301 WEST ELEVATION
1/8" = 1'-0"



3 A-301 EAST ELEVATION
1/8" = 1'-0"



4 A-301 SOUTH ELEVATION
1/8" = 1'-0"

STATE OF ALASKA
49 TH
JAMES PROSKE
No. A-8259
PROFESSIONAL ENGINEER
2-10-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

EXTERIOR ELEVATIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-401	A-8

DESIGNED J.BOYER
CHECKED R.ROUNTREE
DRAFTED J.BOYER

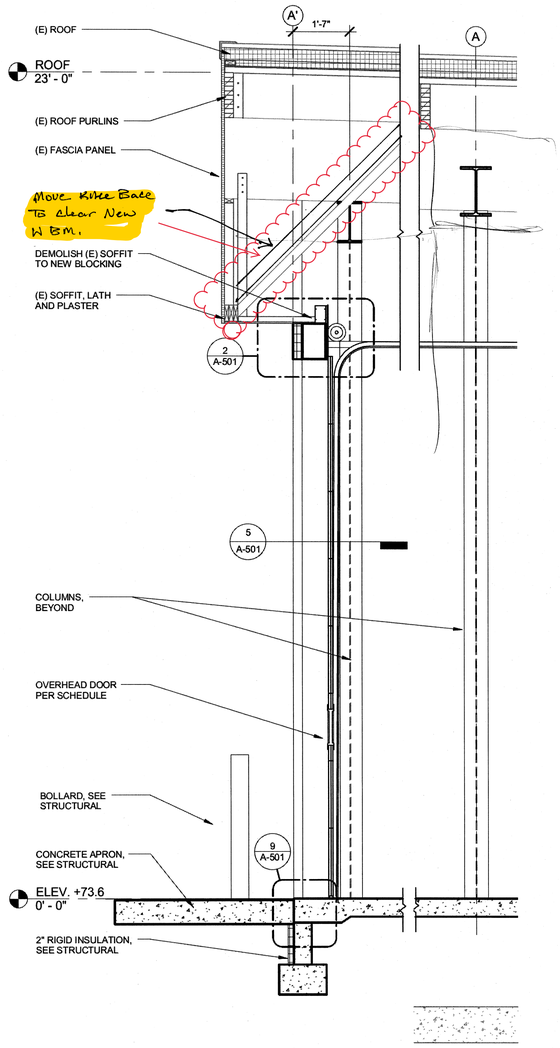
XREFS

SCALE 1/2" = 1'-0"

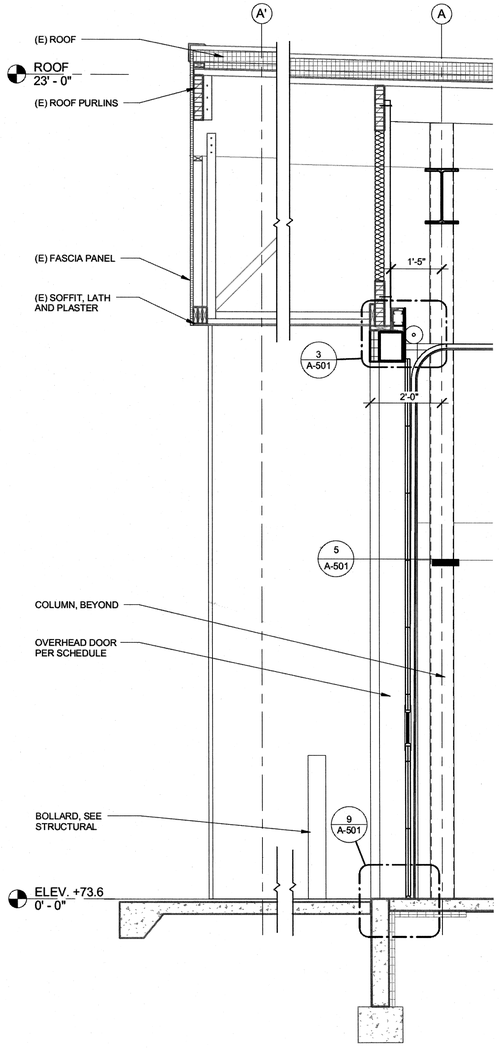
LAYOUT WALL SECTIONS

DATE & TIME 2/9/2016 2:54:31 PM

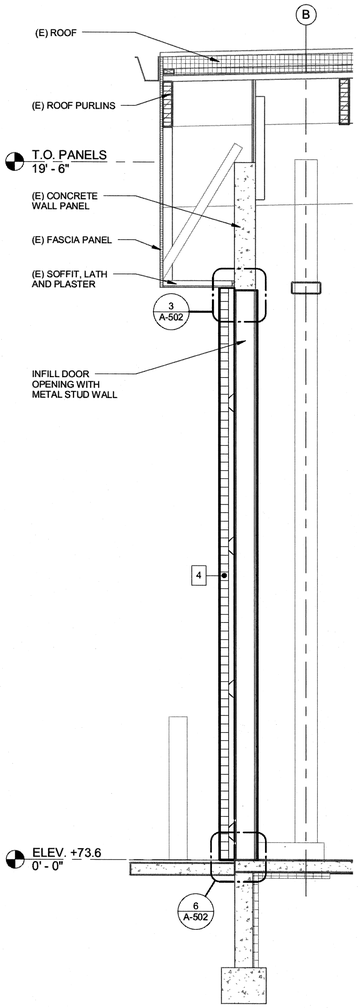
DRAWING LOCATION C:\Users\jproske\Documents\14-192_KTN ARFF-A-model_jboyer.rvt



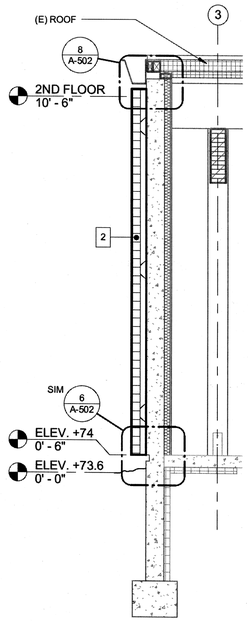
1 A-401 WALL SECTION 1/2" = 1'-0"



2 A-401 WALL SECTION 1/2" = 1'-0"



3 A-401 WALL SECTION 1/2" = 1'-0"



4 A-401 WALL SECTION 1/2" = 1'-0"

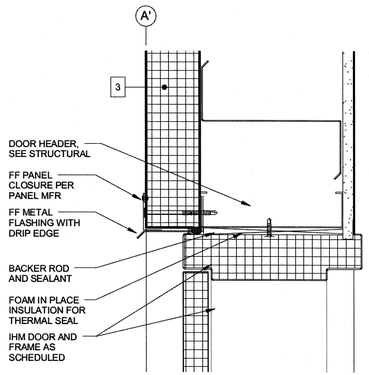
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

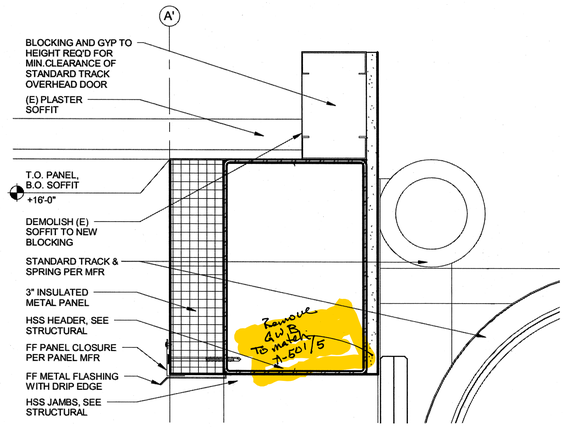
WALL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-501	A-8

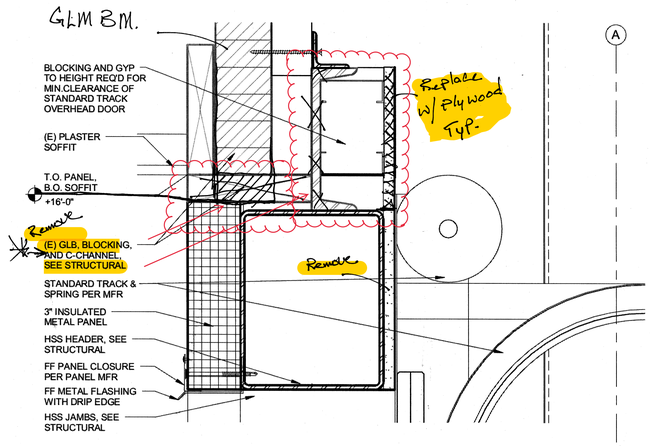
DRAWING LOCATION: C:\Users\jproskol\Documents\14-192_KTN ARFF-A-model_jboyer.rvt
DATE & TIME: 2/9/2016 2:54:33 PM
LAYOUT: EXTERIOR DETAILS
SCALE: 3" = 1'-0"
XREFS:
DESIGNED: J.BOYER
CHECKED: R.ROUNTREE
DRAFTED: J.BOYER



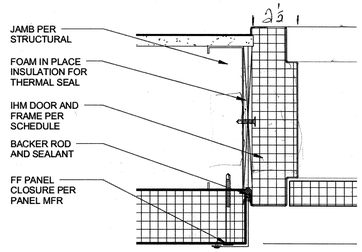
1 A-501 HEAD - DOOR 003
3" = 1'-0"



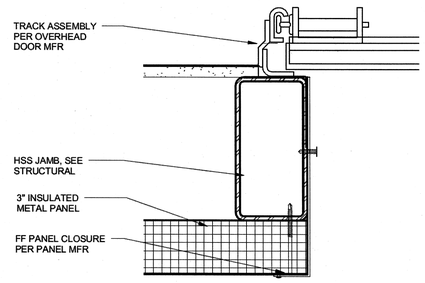
2 A-501 HEAD - OVERHEAD DOOR
3" = 1'-0"



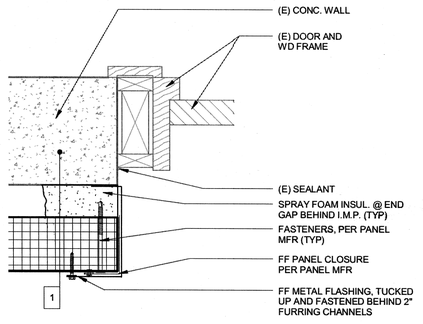
3 A-501 HEAD - OVERHEAD DOOR
3" = 1'-0"



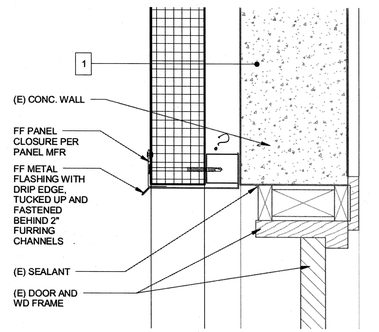
4 A-501 JAMB - DOOR 003
3" = 1'-0"



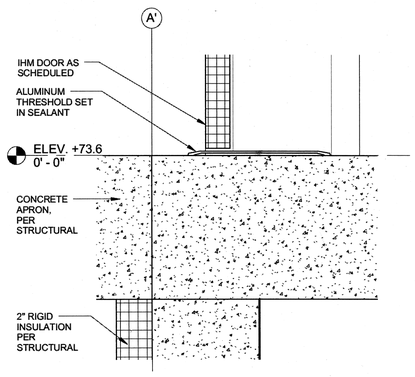
5 A-501 JAMB - OVERHEAD DOOR
3" = 1'-0"



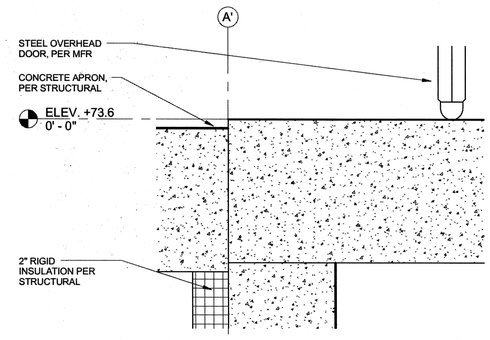
6 A-501 JAMB - EXIST. DOOR
3" = 1'-0"



7 A-501 HEAD - EXIST. DOOR
3" = 1'-0"



8 A-501 SILL - DOOR 003
3" = 1'-0"



9 A-501 SILL - OVERHEAD DOOR
3" = 1'-0"

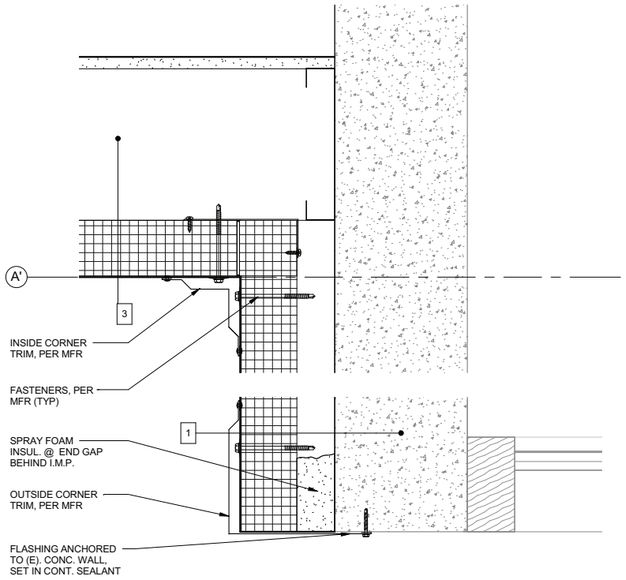
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

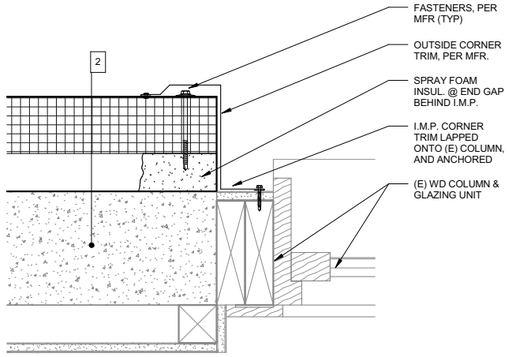
EXTERIOR DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2015	A-502	A-8

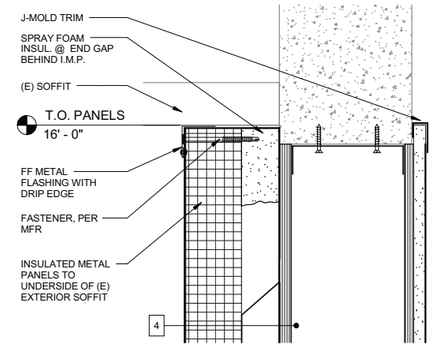
DRAWING LOCATION: C:\Users\jproske\Documents\14-192_KTN ARFF-A-model_jboyer.rvt
DATE & TIME: 2/9/2016 2:54:34 PM
LAYOUT: EXTERIOR DETAILS
SCALE: 3" = 1'-0"
XREFS:
DESIGNED: J.BOYER
CHECKED: R.ROUNTREE
DRAFTED: J.BOYER



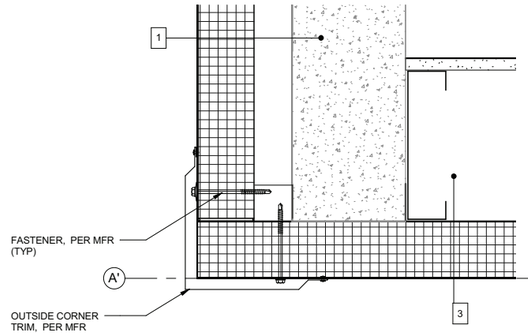
1 A-502 PLAN DETAIL - INSIDE CORNER, WALL END
3" = 1'-0"



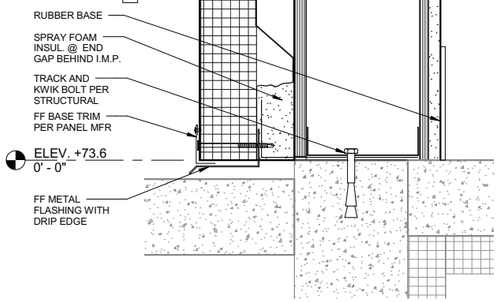
2 A-502 PLAN DETAIL - WALL TRANSITION
3" = 1'-0"



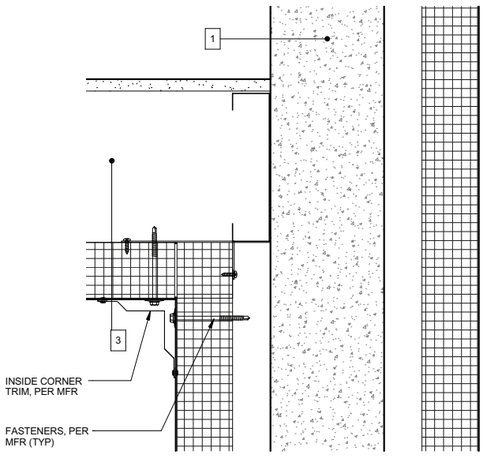
3 A-502 TOP OF WALL
3" = 1'-0"



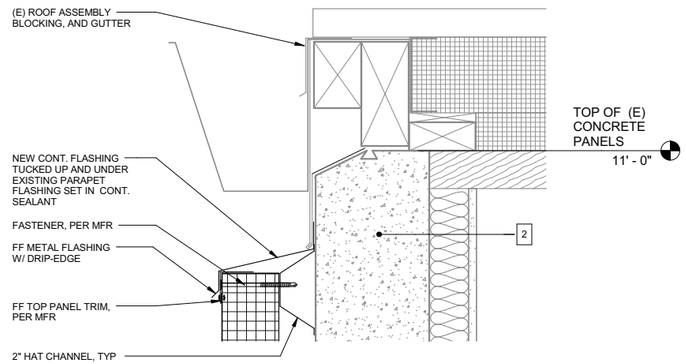
5 A-502 OUTSIDE CORNER
3" = 1'-0"



6 A-502 BASE DETAIL
3" = 1'-0"



7 A-502 PLAN DETAIL - WALL INTERSECTION
3" = 1'-0"



8 A-502 PARAPET DETAIL
3" = 1'-0"

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

EXTERIOR DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-000	S-013

DESIGNED Designer
CHECKED Checker
DRAFTED Author
XREFS
SCALE
LAYOUT STRUCTURAL NOTES
DATE & TIME 2/10/2016 3:50:10 PM
DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

THE FOLLOWING NOTES APPLY UNLESS INDICATED OTHERWISE:

CODE: 2012 INTERNATIONAL BUILDING CODE (IBC)

DESIGN LOADS:

OCCUPANCY CATEGORY IV

DEAD LOAD	ROOF	15 PSF
LIVE LOAD	ROOF	40 PSF
SNOW LOAD	ROOF	40 PSF
WIND	WIND SPEED, V	140 MPH 3-SEC GUST
	ENCLOSURE CLASSIFICATION	ENCLOSED
	EXPOSURE CATEGORY	D
	IMPORTANCE FACTOR, Iw	1.15
	TOPOGRAPHIC FACTOR, Kzt	1.00
	DIRECTION FACTOR	0.85
	INTERNAL PRESSURE COEF, GCpi	+/- 0.18
SEISMIC	SS = 0.304g, S1 = 0.250g, SDS = 0.243g, SD1 = 0.258g	
	SEISMIC DESIGN CATEGORY	D
	SITE CLASS	C
	IMPORTANCE FACTOR, I	1.50
	SEISMIC RESPONSE COEF, Cs	0.07 (SD)
		0.10 (ASD)
	RESPONSE MOD FACTOR, R	3.25
	SYSTEM OVERSTRENGTH, Ω	2
	REDUNDANCY FACTOR, ρ	1.3

GENERAL:

GOVERNING CODE: THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE CITY OF KETCHIKAN, UNDERSTOOD TO BE THE AUTHORITY HAVING JURISDICTION (AHJ).

REFERENCE STANDARDS: REFER TO CHAPTER 35 OF THE IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.

DEFINITIONS: THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:
"ARCHITECT/ENGINEER" -THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD.
"STRUCTURAL ENGINEER OF RECORD" (SER) –THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP & SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
"SUBMIT FOR REVIEW" - SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
"PER PLAN"- INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS AND STRUCTURAL GENERAL NOTES.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL/ STRUCTURAL/ MECHANICAL/ ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

NOTE PRIORITIES: PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES.

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NONSTRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. USE DETAILS MARKED "TYPICAL" WHEREVER THEY APPLY.

STRUCTURAL RESPONSIBILITIES: THE STRUCTURAL ENGINEER (SER) IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.

MEANS, METHODS AND SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH).

BRACING/SHORING DESIGN ENGINEER: THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

TEMPORARY SHORING, BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

CONSTRUCTION LOADS: LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN "DESIGN LOADS" OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S STRUCTURAL ENGINEER FOR BRACING/SHORING.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

SOILS AND FOUNDATIONS:

REFERENCE STANDARDS: CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS."

GEOTECHNICAL SUBGRADE INSPECTION: THE GEOTECHNICAL ENGINEER OR RESIDENT ENGINEER SHALL INSPECT ALL SUB-GRADES AND PREPARED SOIL BEARING SURFACES, PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL AND CONCRETE TO CONFIRM THAT SOILS ARE ADEQUATE TO SUPPORT THE "ALLOWABLE SOIL BEARING PRESSURE(S)" SHOWN BELOW.

DESIGN SOIL VALUES:
FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF.

CAST -IN-PLACE CONCRETE:

REFERENCE STANDARDS: CONFORM TO:
1. ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE",
2. IBC CHAPTER 19-CONCRETE,
3. ACI 318-11
4. ACI 117-10

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES."

MATERIALS: CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.

EMBEDDED ITEMS: POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

CONCRETE REINFORCEMENT
REFERENCE STANDARDS: CONFORM TO:
1. ACI 301-10 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS."
2. ACI SP-66-04 "ACI DETAILING MANUAL" INCLUDING ACI 315-99 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
3. CRSI MSP-09 28TH EDITION, "MANUAL OF STANDARD PRACTICE."
4. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE- REINFORCING STEEL."
5. IBC CHAPTER 19-CONCRETE.
6. ACI 318-11.
7. ACI 117-10

MATERIALS:
REINFORCING BARS ASTM A6I5, GRADE 60, DEFORMED BARS.
BAR SUPPORTS CRSI MSP-09 28TH EDITION, CHAPTER 3 "BAR SUPPORTS."
TIE WIRE 16 GAGE OR HEAVIER, BLACK ANNEALED.
ASTM A706, GRADE 60, REINFORCING STEEL SHALL BE USED FOR WELDED BARS.
WELDED WIRE FABRIC PER ASTM A185.
REINFORCING IN EXTERIOR CONCRETE SLABS & LANDINGS SHALL BE EPOXY-COATED.

CONCRETE COVER: CONFORM TO THE FOLLOWING COVER REQUIREMENTS UNLESS NOTED OTHERWISE IN THE DRAWINGS.

CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	1.5

GROUT:
GROUT - 5000 PSI MINIMUM 7-DAY CUBE STRENGTH PER ASTM C109ASTM C109.
GROUT TO BE PREMIXED, NON-METALIC NON-SHRINK. ICBO CERTIFICATION REQUIRED.
USE SPECIFIC GROUT MIX RECOMMENDED BY MANUFACTURER FOR EACH GROUT APPLICATION AND FOLLOW MANUFACTURER'S INSTRUCTIONS.

ANCHOR BOLTS:
ANCHOR BOLTS, ASTM A307, OR F1554 GRADE 36, HOT DIP GALVANIZED. SPECIAL INSPECTION REQUIRED. SET ALL ANCHOR BOLTS FOR COLUMNS BY TEMPLATE.

POST-INSTALLED ANCHORS (INTO CONCRETE AND MASONRY):

DESIGN STANDARDS:
POST-INSTALLED ANCHORS INTO CONCRETE FOR THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE, ACI 318-11, APPENDIX D SPECIFICATIONS.

INSULATION:

FOUNDATION WALL INSULATION: EPS OR XPS RIGID BOARD INSULATION.

STRUCTURAL STEEL:

DESIGN STANDARDS: STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS AND AISC - MANUAL OF STEEL CONSTRUCTION, FOURTEENTH EDITION (2010).

REFERENCE STANDARDS:
1. IBC CHAPTER 22- STEEL.
2. ANSI/AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES, HEREAFTER REFERENCED AS AISC 303.
3. ANSI/AISC 360-10- SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, HEREAFTER REFERENCED AS AISC 360.
4. AWS D1.1 -04 -STRUCTURAL WELDING CODE - STEEL, HEREAFTER REFERENCED AS AWS D1.1.

MATERIALS:

WIDE FLANGE (W), TEE (WT) SHAPES	ASTM A992 Fy=50 KSI
STRUCTURAL BARS & PLATES (PL)	ASTM A36, Fy=36 KSI
HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500, Fy=46 KSI
STRUCTURAL PIPE, (PIPE)	ASTM A53, GRADE B
HIGH STRENGTH BOLTS	ASTM A325
BOLTS	ASTM A325
THREADED RODS (ANCHOR BOLTS)	ASTM A307, OR F1554 GRADE 36
WELDING ELECTRODES	E70XX, E71TXX UNO

WELDING:
WELDING SHALL CONFORM TO AWS D1.1 AND VISUALLY CONFORM TO AWS SECTION 6 AND TABLE 6.1. FABRICATION/ERECTION INSPECTIONS BY THE CONTRACTOR PER AWS D1.1 SECTION 6, SHALL BE BY ASSOCIATE/CERTIFIED INSPECTORS (AWI/CWI) PER AWS QC1 OR AWS B5.1. SPECIAL INSPECTIONS (VERIFICATION INSPECTIONS) SHALL BE BY A CERTIFIED WELDING INSPECTOR (WI) OR SENIOR WELDING INSPECTOR (SWI) PER AWS B5.1.

FABRICATION:
CONFORM TO AISC 303, SECTION 8 AND AISC 360 SECTION M2 AND M5.

ERECTION:
CONFORM TO AISC 303, SECTION 7 "ERECTION", SECTION 8 "QUALITY ASSURANCE." AND AISC 360, SECTION M4.

BRACING AND SAFETY PROTECTION: THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTION REQUIRED BY AISC 360 SECTION M4.2 AND AISC 303 SECTION 7.10 AND 7.11.

WOOD FRAMING:

REFERENCE STANDARDS:
1. IBC CHAPTER 23 - WOOD
2. 2005 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION
3. APA PLYWOOD DESIGN SPECIFICATION

GLUED-LAMINATED TIMBER:

GLUED-LAMINATED BEAMS SHALL BE DOUGLAS FIR LARCH WITH THE FOLLOWING MINIMUM PROPERTIES:

Fb = 2,400 PSI, Fv = 265 PSI, Fc (PERPENDICULAR) = 650 PSI, E = 1,800,000 PSI.

FABRICATED WITH WET-USE ADHESIVES. MEMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE, SEALED WITH A PENETRATING SEALER, AND INDIVIDUALLY WRAPPED AS STANDARD WITH THE MANUFACTURER AND APPROVED.

GLUED LAMINATED TIMBER CONNECTORS: SHALL BE "STRONG TIE" BY SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

COLD-FORMED METAL FRAMING:

ASTM A653, Fy=50 KSI, EXCEPT 18 GAUGE AND LIGHTER SHALL BE ASTM A570, Fy=33 KSI. GALVANIZED G60. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF METAL STUD WALLS.

SHOP DRAWINGS AND SUBMITTALS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH CONSTRUCTION DOCUMENTS.

ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED ALLOWED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY BY THE ENGINEER OF RECORD.

ONCE THE CONTRACTOR HAS COMPLETED HIS REVIEW, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THEREFROM.

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE DEPARTMENT. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION PER 1704.1.

SPECIAL INSPECTORS SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTROR FOR CORRECTION, AND TO THE ATTENTION OF THE ENGINEER OF RECORD. SPECIAL INSPECTION REPORTS SHALL BE PROVIDED ON A WEEKLY BASIS. FINAL SPECIAL INSPECTION REPORTS WILL BE REQUIRED BY EACH SPECIAL INSPECTION FIRM PER IBC 1704.2.4. THE SPECIAL INSPECTORS FINAL SIGNED REPORT SHALL STATE WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE APPLICABLE CODES. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION FOR REVIEW.

CONTRACTOR RESPONSIBILITY: THE CONTRACTOR IS REQUIRED TO PROVIDE THE DEPARTMENT A SIGNED, WRITTEN ACKNOWLEDGEMENT OF THE CONTRACTOR'S RESPONSIBILITIES ASSOCIATED WITH THE ABOVE STATEMENT OF SPECIAL INSPECTIONS ADDRESSING THE REQUIREMENTS LISTED IN IBC SECTION 1714. CONTRACTOR IS REFERRED TO IBC CHAPTER 1705.11.5 AND 1705.11.6 FOR ARCHITECTURAL AND MEP BUILDING SYSTEMS THAT MAY BE SUBJECT TO ADDITIONAL INSPECTIONS (BASED ON THE BUILDING'S DESIGNATED SEISMIC DESIGN CATEGORY LISTED IN THE CRITERIA), INCLUDING ANCHORAGE OF HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS, PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS, ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER, EXTERIOR WALL PANELS AND SUSPENDED CEILING SYSTEMS.

STATEMENT OF SPECIAL INSPECTIONS PER 1704 AND 1705. SPECIAL INSPECTIONS AND TESTING ARE REQUIRED BY 1704, 1706, 1707 AND 1708 FOR THE FOLLOWING:

FABRICATORS PER IBC SECTION 1704.2. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2 SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

STEEL CONSTRUCTION PER IBC SECTION 1705.2, THE ATTACHED TABLES AND THE FOLLOWING:

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE CONDITIONS OF SECTION 1705.2 EXCEPTIONS ARE MET:
SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE
FLOOR AND ROOF DECK WELDING
WELDING OF STAIRS AND RAILING SYSTEMS

SOILS & FOUNDATION CONSTRUCTION PER IBC SECTION 1705.6 AND THE ATTACHED TABLES.

CONCRETE CONSTRUCTION PER IBC SECTION 1705.3 AND THE ATTACHED TABLES.

WIND REQUIREMENTS PER IBC SECTION 1711 AND THE ATTACHED TABLES.

SEISMIC REQUIREMENTS PER IBC SECTION 1712 AND THE ATTACHED TABLES.

STRUCTURAL TESTING FOR SEISMIC RESISTANCE PER IBC SECTION 1713 AND THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341.

STRUCTURAL OBSERVATIONS
STRUCTURAL OBSERVATIONS, AS DEFINED IN IBC SECTION 1702, SHALL BE PROVIDED FOR SEISMIC RESISTANCE PER IBC SECTION 1704.5.1 AND WIND REQUIREMENTS PER IBC SECTION 1704.5.2.

POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY: SHALL COMPLY WITH IBC SECTION 1703. INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE APPROVED ICC EVALUATION REPORT AND AS INDICATED BY THE DESIGN REQUIREMENTS SPECIFIED ON THE DRAWINGS. REFER TO THE POST INSTALLED ANCHORS SECTION OF THESE NOTES FOR ANCHORS THAT ARE THE BASIS OF THE DESIGN. SPECIAL INSPECTORS SHALL VERIFY ANCHORS ARE AS SPECIFIED IN THE POST INSTALLED ANCHORS SECTION OF THESE NOTES OR AS OTHERWISE SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS REQUIRE APPROVAL BY THE SER AND REQUIRE SUBSTANTIATING CALCULATIONS AND CURRENT IBC RECOGNIZED ICC EVALUATION SERVICES (ES) REPORT. SPECIAL INSPECTOR SHALL DOCUMENT IN THEIR SPECIAL INSPECTION REPORT COMPLIANCE WITH EACH OF THE ELEMENTS REQUIRED WITHIN THE APPLICABLE ICC EVALUATION SERVICES (ES) REPORT.

STATE OF ALASKA
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Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

STRUCTURAL NOTES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-001	S-013

DESIGNED Designer
CHECKED Checker
DRAFTED Author

XREFS

SCALE

LAYOUT
SPECIAL INSPECTION TABLES AND ABBREVIATIONS

DATE & TIME
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DRAWING LOCATION
C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

REQUIRED INSPECTION OF STEEL CONSTRUCTION

VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	REFERENCE
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.3 & APPLICABLE ASTM STANDARDS
B. MANUFACTURER'S CERTIFICATE COMPLIANCE REQUIRED.	PERIODIC	
INSPECTION OF HIGH-STRENGTH BOLTING:		
A. SNUG-TIGHT JOINTS.	PERIODIC	AISC 360, SECTION M2.5 IBC 1704.3.3
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISO 360.	PERIODIC	AISC 360 SECTION M5.5
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	APPLICABLE ASTM STANDARDS
MANUFACTURER'S CERTIFIED TEST REPORTS.	PERIODIC	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.5 & APPLICABLE AWS A5 DOCS
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC	
INSPECTION OF WELDING:		
A. STRUCTURAL STEEL AND COLD-FORMED STEEL		
1) COMPLETE & PARTIAL JOINT PENETRATION GROOVE WELDS. 2) MULTIPASS FILLET WELDS. 3) SINGLE-PASS FILLET WELDS > 5/16". 4) PLUG AND SLOT WELDS.	CONTINUOUS	AWS D1.1 IBC 1704.3.1
5) SINGLE-PASS FILLET WELDS <= 5/16"	PERIODIC	AWS D1.1 IBC 1704.3.1
B. REINFORCING STEEL:		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	PERIODIC	AWS D1.4 ACI 318: SECTION 3.5.2
4) OTHER REINFORCING STEEL.	PERIODIC	
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:		
A. MEMBER LOCATIONS.		IBC 1704.3.2
B. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		

REQUIRED INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	REFERENCE
INSPECTION OF REINFORCING STEEL AND PLACEMENT.	PERIODIC	ACI 318: 3.5,7.1-7.7 IBC 1913.4
INSPECTION OF REINFORCING STEEL WELDING	SEE STEEL CONSTRUCTION INSPECTION TABLE	
INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE.	CONTINUOUS	ACI 318: 8.1.3,21.2.8 IBC 1911.5, 1912.1
INSPECTION OF ANCHORS INSTALLED INTO HARDENED CONCRETE.	PERIODIC	ACI 318: 3.8.6,8.1.3,21.2.8 IBC 1912.1
VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTMC 172 ASTMC 31 ACI 318: 5.6, 5.8 IBC 1913.10
INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9,5.10 IBC 1913.6, 1913.7, 1913.8
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11-5.13 IBC 1913.9
INSPECT FORMORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1

REQUIRED VERIFICATION & INSPECTION OF SOILS

VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

REQUIRED INSPECTION OF WIND RESISTING COMPONENTS

VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION
WALL CLADDING	PERIODIC

ABBREVIATIONS:

@	AT
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
B.O.F.	BOTTOM OF FOOTING
B.O. SOF	BOTTOM OF SOFFIT
BRG	BEARING
BTWN	BETWEEN
C/C	CENTER TO CENTER
CABC	CRUSHED AGGREGATE BASE COURSE
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DET	DETAIL
DIA	DIAMETER
DP	DEEP
DOT&PF	DEPT OF TRANSPORTATION & PUBLIC FACILITIES
E, EX, EXIST	EXISTING
EA	EACH
EMB	EMBED
EPS	EXPANDED POLYSTYRENE
EST	ESTIMATE
EW	EACH WAY
EXT	EXTERIOR
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN FLR	FINISHED FLOOR
FT	FOOT/FEET
FTG	FOOTING
GA	GAGE
GLB	GLUE LAMINATED BEAM
HDG	HOT DIP GALVANIZE
HORIZ	HORIZONTAL
HT	HEIGHT
ID	IDENTIFICATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MTL	METAL
O/O	OUTSIDE TO OUTSIDE
O.C.	ON CENTER
OPNG	OPENING
OVHD	OVERHEAD DOOR
PL	PLATE
PLWD	PLYWOOD
QTY	QUANTITY
REINF	REINFORCING
REQD	REQUIRED
SER	STRUCTURAL ENGINEER OF RECORD
SIMP	SIMPSON
SPCG	SPACING
SS	STAINLESS STEAL
SSHC	STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION
STL	STEEL
STR	STRONG
T&G	TUNG AND GROOVE
THRD	THREADED
T.O.B.	TOP OF BASE
TRANS	TRANSVERSE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V, VERT	VERTICAL
w/	WITH
XPS	EXTRUDED POLYSTYRENE

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STATE OF ALASKA
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AND PUBLIC FACILITIES

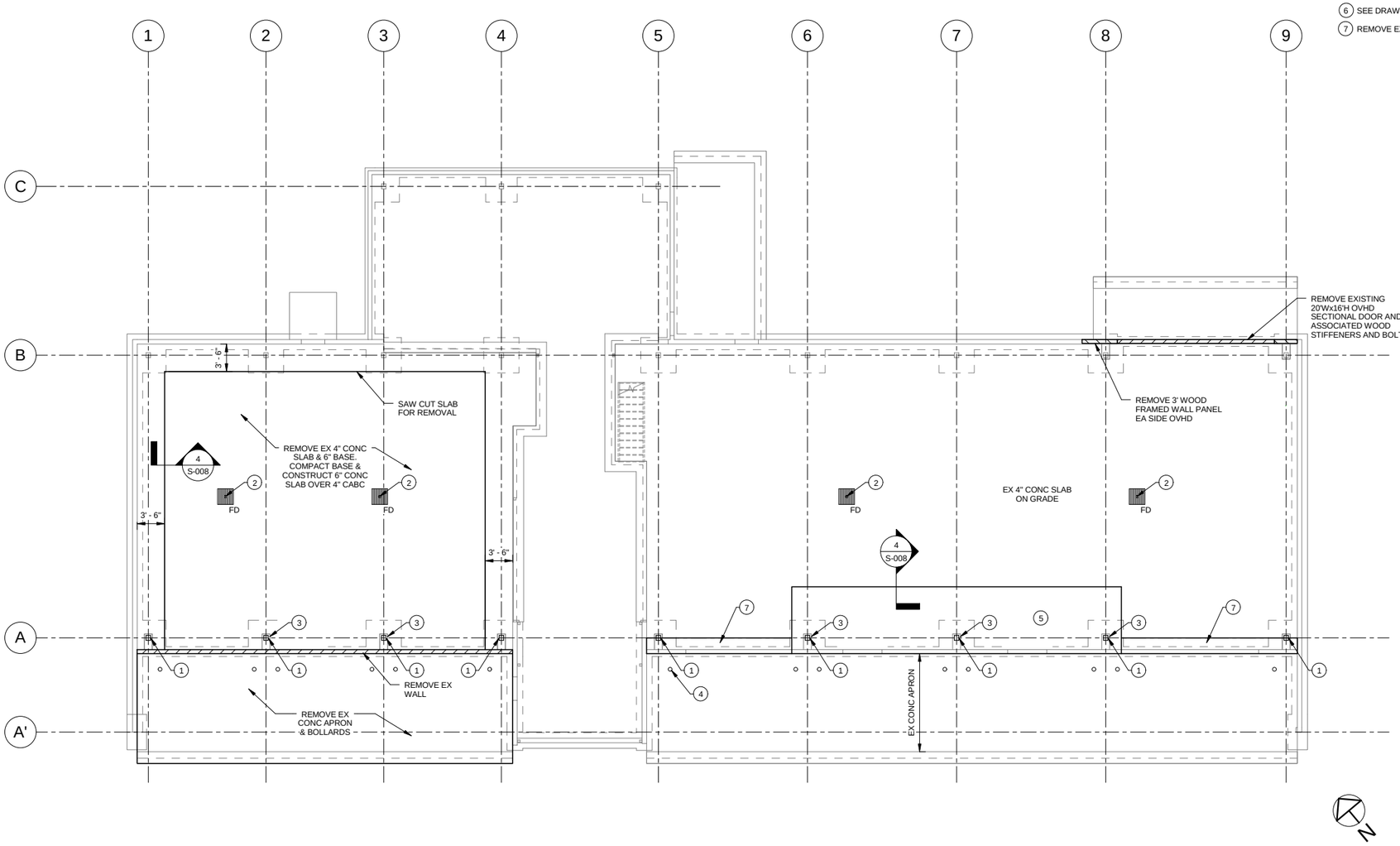
KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

SPECIAL INSPECTION TABLES AND ABBREVIATIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-002	S-013

DRAWING NOTES:

1. EXISTING WOOD COLUMN TO BE REMOVED, SEE SHORING DIAGRAM, SHEET S-012.
2. REMOVE EXISTING FLOOR DRAIN AND PLUG LINE WITH 12" MINIMUM CONCRETE OR CEMENT/SAND MORTAR.
3. DEMOLISH EXISTING COLUMN PLINTH TO 8" MINIMUM BELOW SLAB.
4. REMOVE EXISTING 8 BOLLARDS. CUT OFF 6" BELOW TOP OF CONC APRON. FILL CONC CUTOUT w/ CONC.
5. REMOVE EX 4" CONC SLAB & 6" BASE AS REQD FOR CONSTRUCTION OF NEW FOUNDATIONS. COMPACT BASE & CONSTRUCT 6" CONC SLAB OVER 4" CABC
6. SEE DRAWING NOTE 1 ON S-006.
7. REMOVE EX CONC SLAB. SEE SECTION 7/S-007



1 PARTIAL DEMOLITION PLAN
1/8" = 1'-0"

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

SCALE 1/8" = 1'-0"

LAYOUT PARTIAL DEMOLITION PLAN

DATE & TIME 2/10/2016 5:18:32 PM

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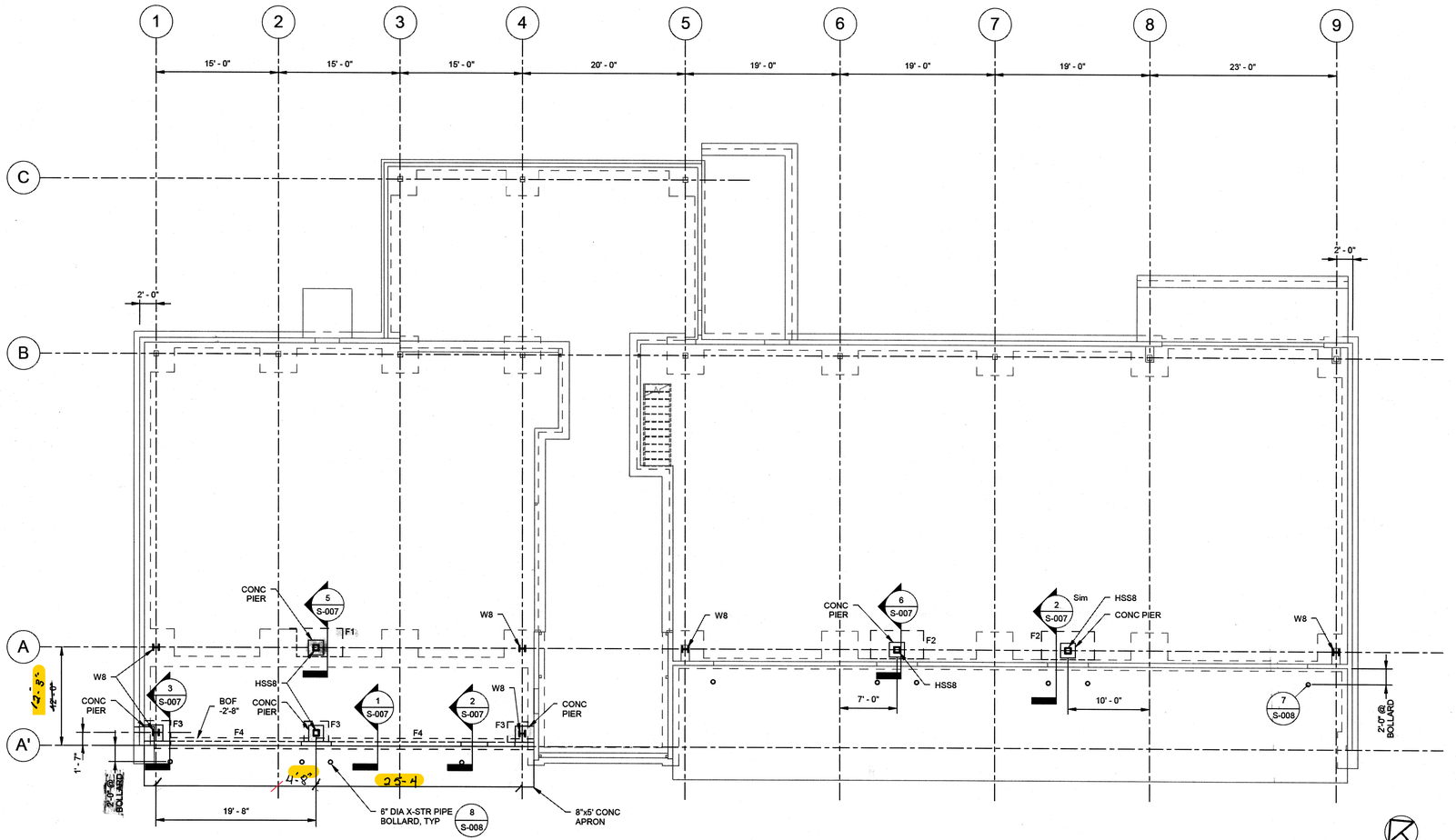
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

PARTIAL DEMOLITION PLAN

STATE OF ALASKA · 49 TH · Duane H. Anderson · No. SE 14155 · 2-10-16 · REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-003	S-013



1 FOUNDATION PLAN
1/8" = 1'-0"

LEGEND:

COLUMNS
W8 W8x40
HSS8 HSS8x8x1/4

FOOTING SCHEDULE

ID	SIZE	THICK	REINF
F1	3'-6"x6'-0"	12"	(4) #6 LONG & (8) #4 TRANSV @ TOP & BOT
F2	3'-6"x6'-6"	12"	(4) #6 LONG & (8) #4 TRANSV @ TOP & BOT
F3	3'-0"x3'-6"	12"	(4) #5 EA WAY TOP & BOT
F4	1'-4" CONT	12"	(2) #5

STATE OF ALASKA
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AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

FOUNDATION PLAN

STATE OF ALASKA
49 TH
Duane Anderson
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

DRAWING LOCATION
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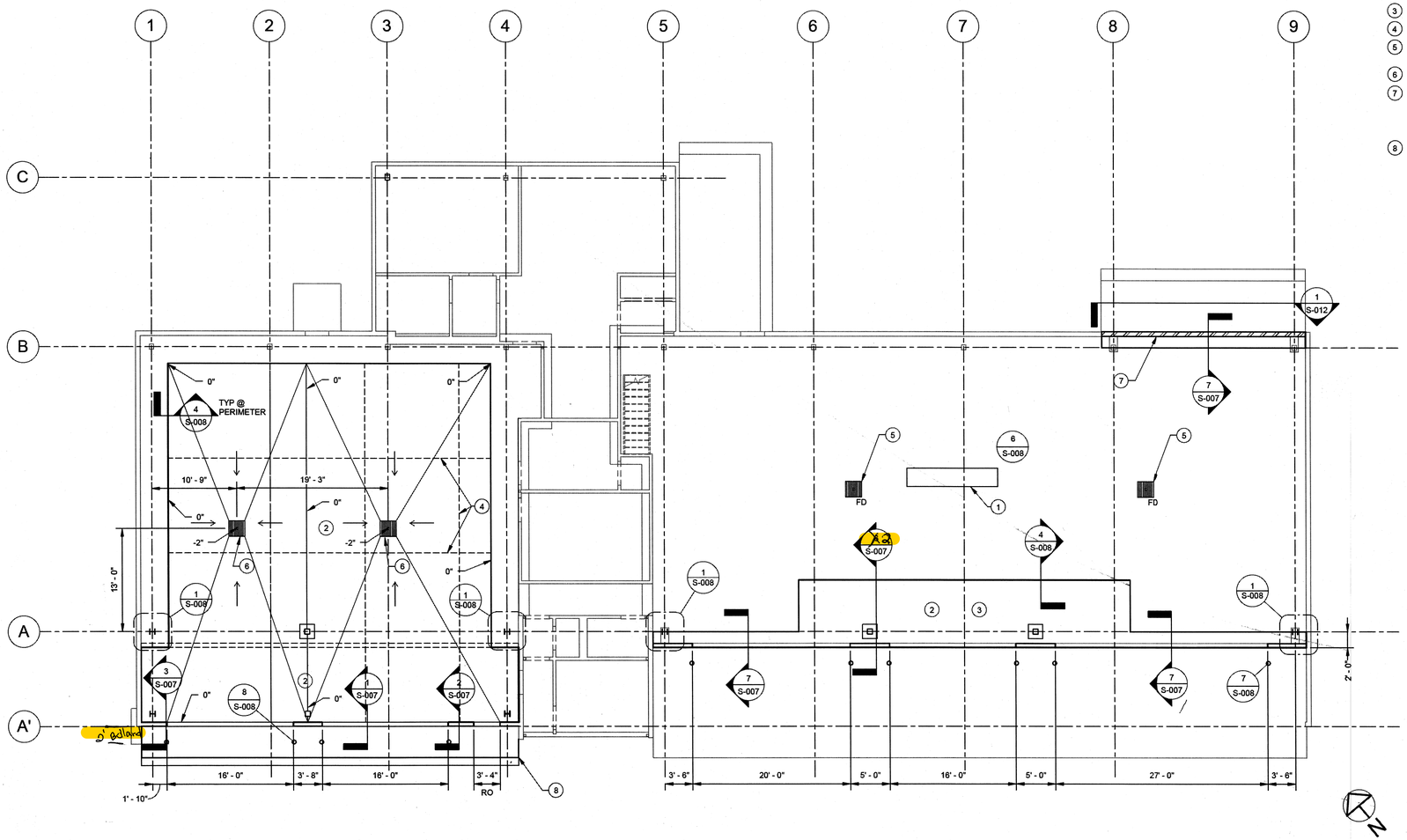
DATE & TIME 2/10/2016 5:18:33 PM
LAYOUT FOUNDATION PLAN
SCALE 1/8" = 1'-0"
XREFS
DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

S-013

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-004	S-013

DRAWING NOTES:

1. RELOCATE EXISTING 2-POST ROTARY SPO14 12,000# VEHICLE LIFT. MOUNT EACH POST TO CONCRETE SLAB WITH (4) 3/4" x 5 1/2" HILTI KWIK BOLT III WITH 3 1/4" EMBEDMENT.
2. CONSTRUCT 6" CONC SLAB OVER 4" CABC. REINFORCE WITH #5 @ 16" O.C. EACH WAY. 1-1/2" CLEAR TO TOP OF SLAB.
3. PROVIDE SAWCUT CONTROL JOINTS THIS AREA TO MATCH JOINTS IN EXISTING SLAB.
4. SAWCUT CONTROL JOINTS. SEE DETAIL 9/S-008.
5. PROVIDE 2'x2'x18" DEEP SUMP INTO EXISTING SLAB @ EXISTING FLOOR DRAIN LOCATIONS, TYPICAL OF 2. SEE DET 6/S-008
6. 2'x2'x18" DEEP SUMP, SEE DETAIL 5/S-008.
7. INFILL EXISTING OPENING WITH 600 S250-68 METAL STUDS @ 12" O.C. WITH 5/8" PLYWOOD EXTERIOR AND 15/32" PLYWOOD INTERIOR. PLYWOOD SHALL BE APA RATED WALL SHEATHING, EXTERIOR EXPOSURE. SCREW TO COLD FORMED METAL FRAMING w/ #8 ZINC PLATED SELF DRILLING SCREWS @ 6" O.C. @ PLYWOOD EDGES & 12" O.C. IN THE FIELD.
8. 8"X5' CONCRETE APRON. REINFORCE WITH #5 @ 16" O.C. EACH WAY. 2" CLEAR TO TOP OF SLAB.



1 STRUCTURAL FLOOR PLAN
1/8" = 1'-0"

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

STRUCTURAL FLOOR PLAN

STATE OF ALASKA 49 TH
Duane H. Anderson
No. SE 14155
3-10-16
REGISTERED PROFESSIONAL ENGINEER

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

SCALE 1/8" = 1'-0"

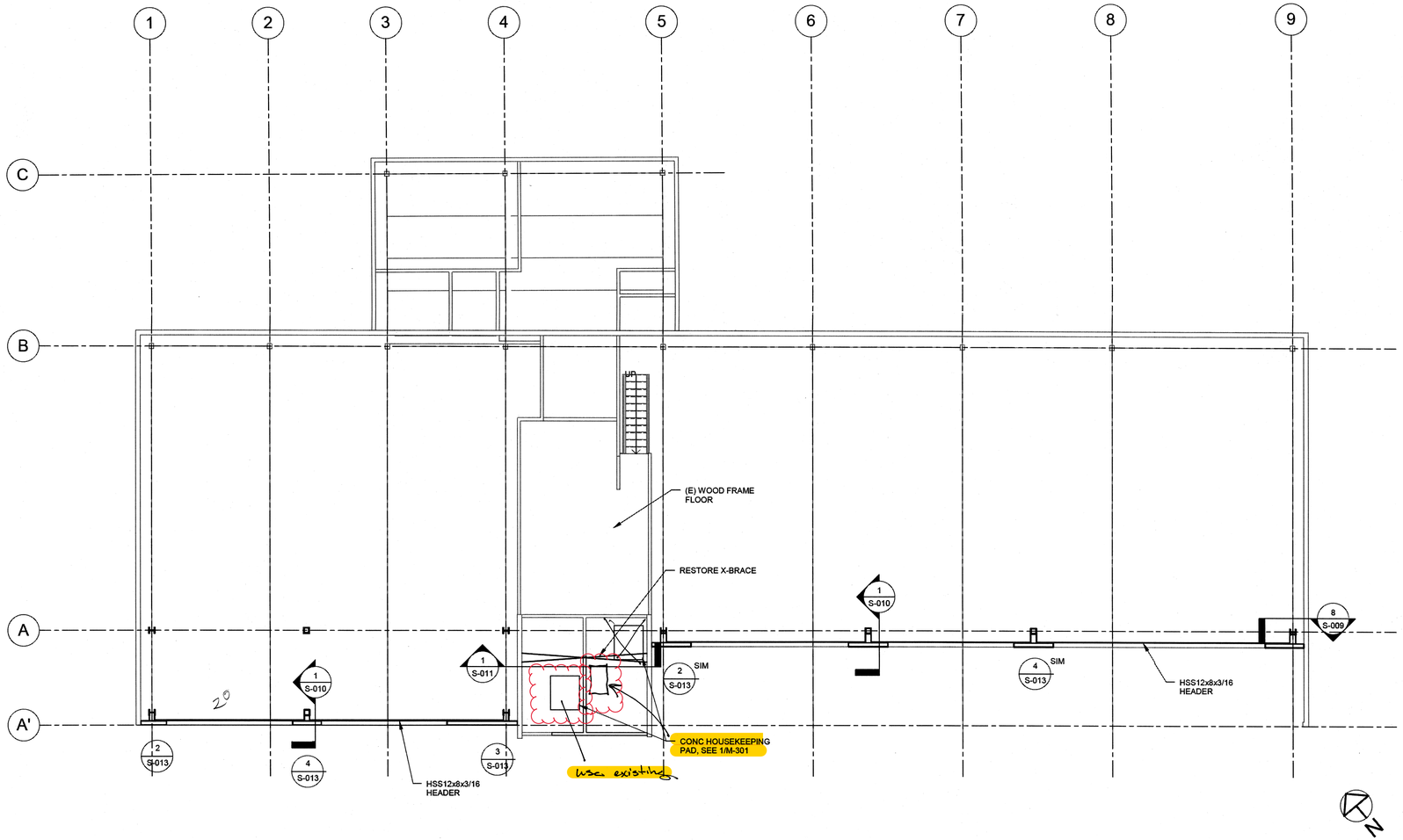
LAYOUT STRUCTURAL FLOOR PLAN

DATE & TIME 2/10/2016 5:18:33 PM

DRAWING LOCATION
C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

S-013

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-005	S-013



1 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

DRAWING LOCATION
C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

DATE & TIME	2/10/2016 5:18:34 PM
LAYOUT	2ND FLOOR FRAMING PLAN
SCALE	1/8" = 1'-0"
XREFS	
DESIGNED	D. ANDERSON
CHECKED	D. ANDERSON
DRAFTED	P. HEWLETT

STATE OF ALASKA
49 TH
Duane Anderson
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF
BUILDING RENOVATION

2ND FLOOR FRAMING PLAN

S-013

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-006	S-013

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

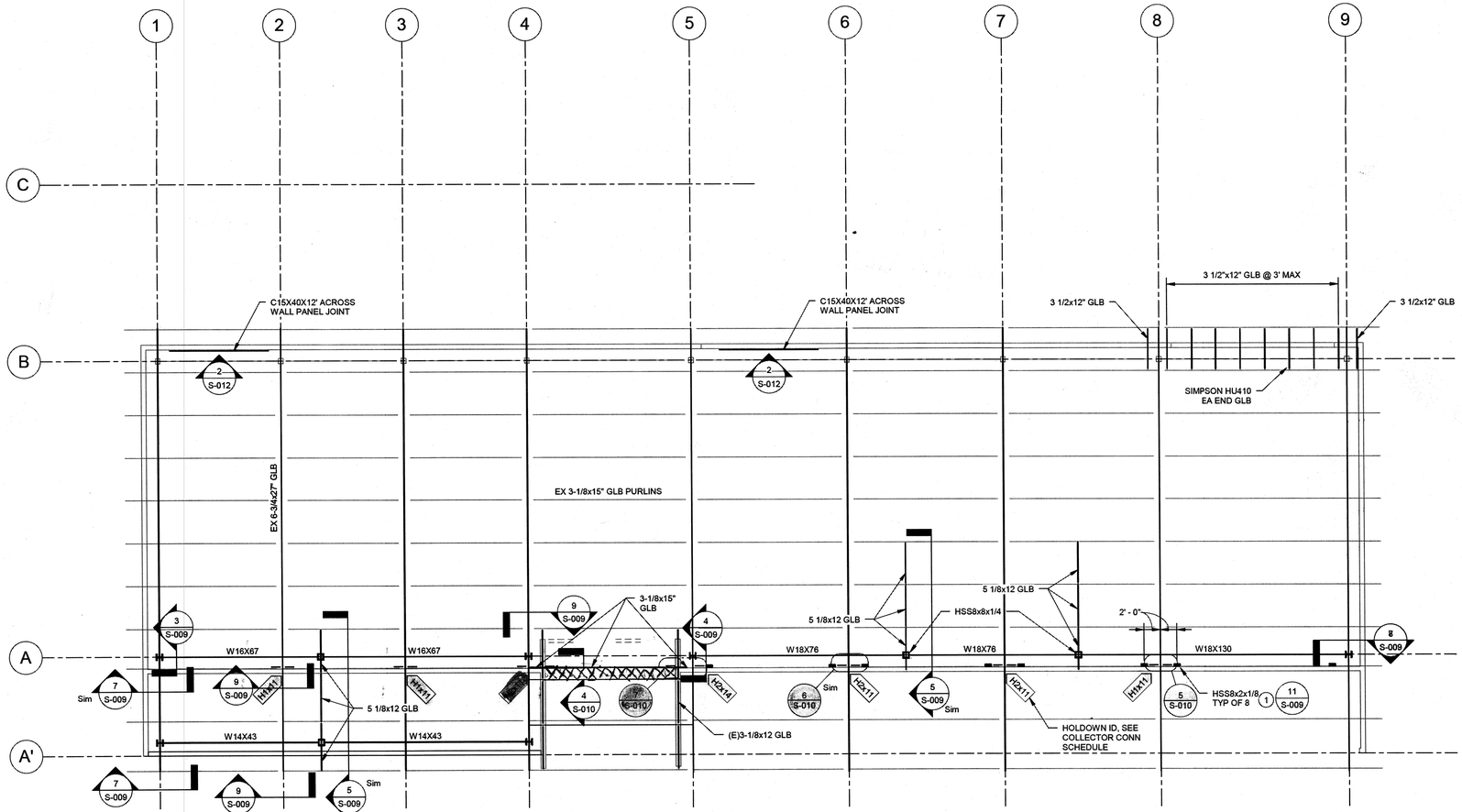
SCALE 1/8" = 1'-0"

LAYOUT ROOF FRAMING PLAN

DATE & TIME 2/10/2016 5:18:35 PM

DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

S-013



1 ROOF FRAMING PLAN
1/8" = 1'-0"

COLLECTOR CONNECTION SCHEDULE				
ID	HOLDOWNS	ANCHOR ROD	SDS 1/4x2-1/2	DET
H1x11	(1) HHDQ11	1" DIA	24	5/S-010
H2x11	(2) HHDQ11	1" DIA	24 EA	6/S-010
H2x14	(2) HHDQ14	1" DIA	30 EA	6/S-010

HOLDOWNS & SCREWS SPECIFIED AS SIMPSON OR EQUAL.
HOLDOWN QTY SPECIFIED SHALL BE INSTALLED ON EACH SIDE OF 6-3/4" GLB.
SEE DETAILS 5, 6 & 9 AT SHEET S-010.

DRAWING NOTES:

4 INSTALL HSS8x2 HEADER HANGER MEMBERS BEFORE DEMOLITION OF WALL FRAMING.

STATE OF ALASKA
49 TH
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AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

ROOF FRAMING PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-007	S-013

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

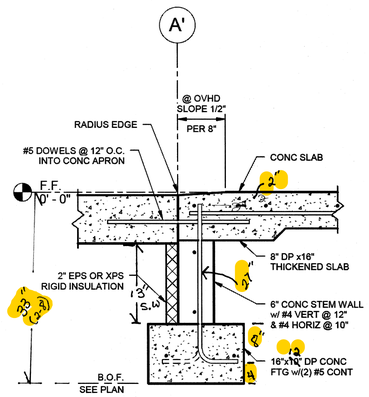
SCALE As indicated

LAYOUT FOUNDATION DETAILS

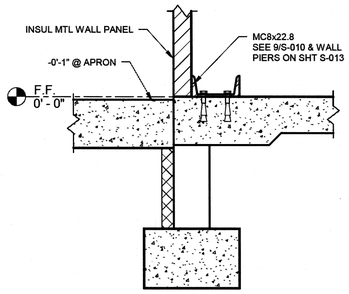
DATE & TIME 2/10/2016 5:18:36 PM

DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

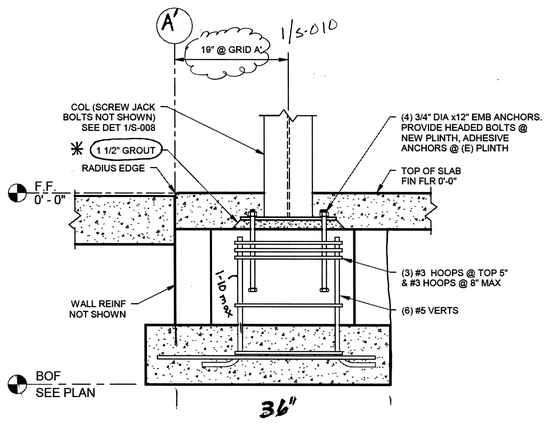
S-013



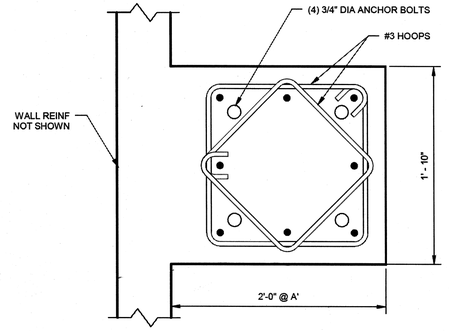
1 SECTION @ DOORS
1" = 1'-0"



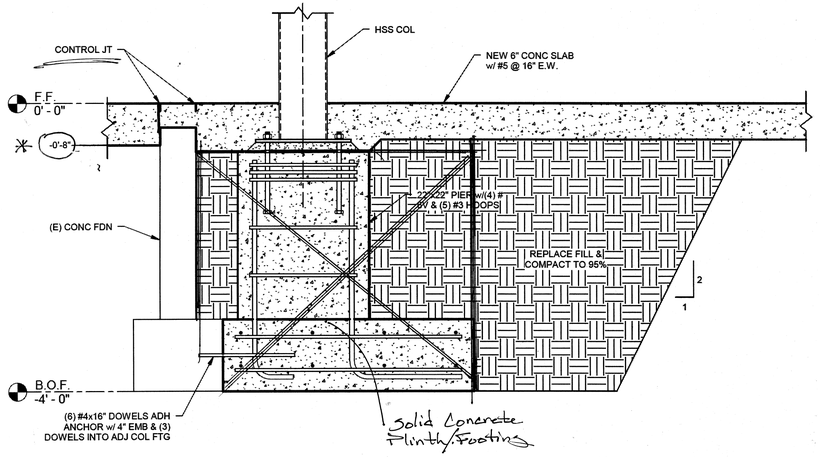
2 WALL PANEL CONN @ FDN
1" = 1'-0"



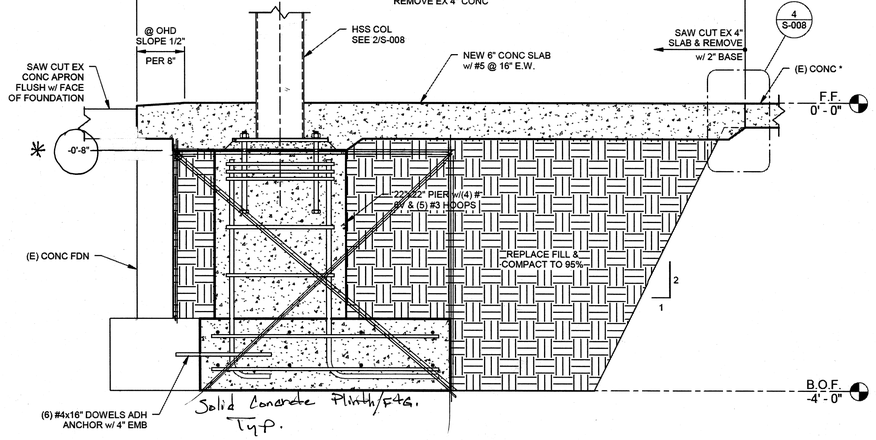
3 SECTION @ COL PLINTH
1" = 1'-0"



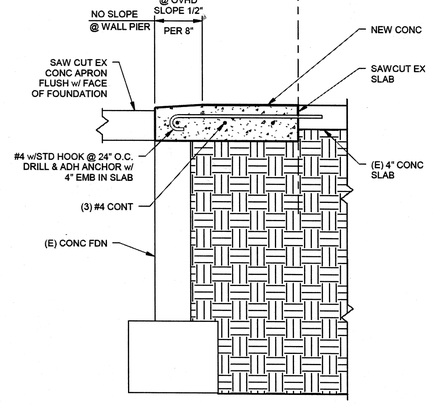
4 PLAN @ COL PLINTH
1 1/2" = 1'-0"



5 FOOTING @ GRID '2.3'
1" = 1'-0"



6 FOOTING @ GRIDS '6.3' & '7.7'
1" = 1'-0"



7 FOUNDATION SECTION
1" = 1'-0"

STATE OF ALASKA
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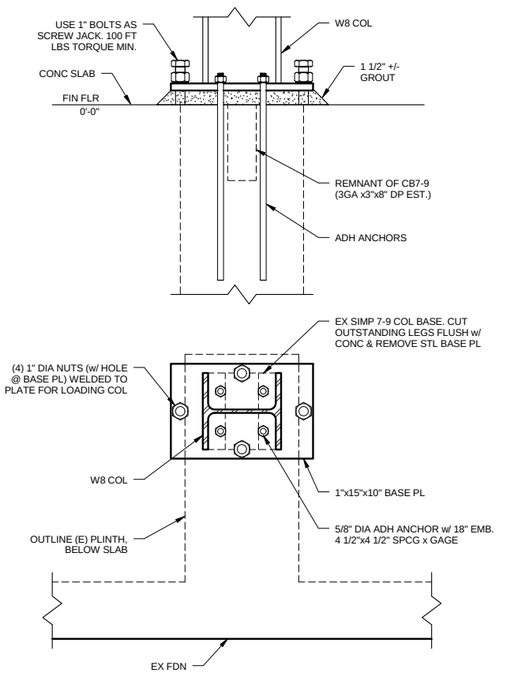
FOUNDATION DETAILS

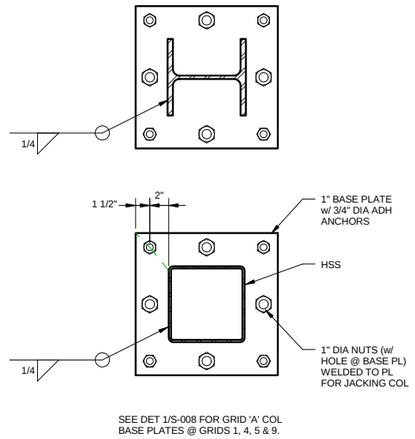
STATE OF ALASKA
49 TH
Duane Anderson
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-008	S-013

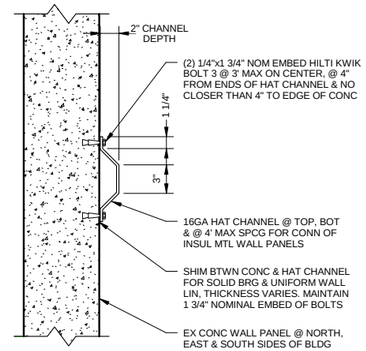
DESIGNED Designer
CHECKED Checker
DRAFTED Author
XREFS
SCALE As indicated
LAYOUT DETAILS
DATE & TIME 2/10/2016 5:18:37 PM
DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt



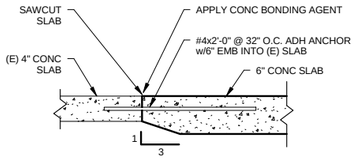
1 NEW COL BRG DTL - GRID A @ 1, 4, 5 & 9
1 1/2" = 1'-0"



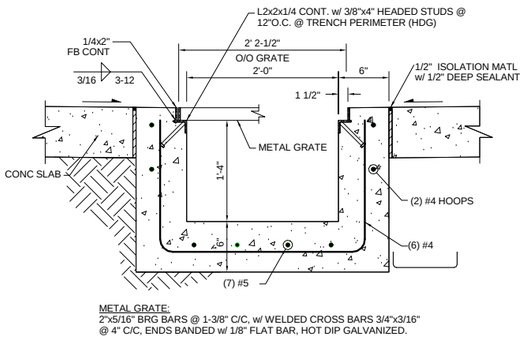
2 COL HSS BASE PLATES
1 1/2" = 1'-0"



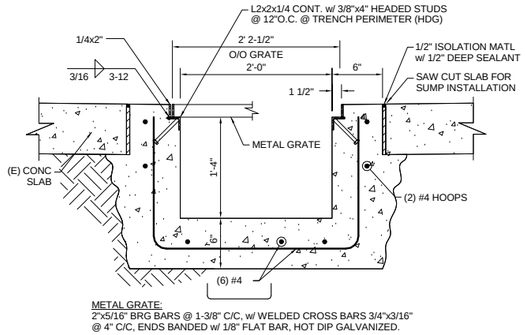
3 HAT CHANNEL CONN FOR INSUL WALL PANELS
1 1/2" = 1'-0"



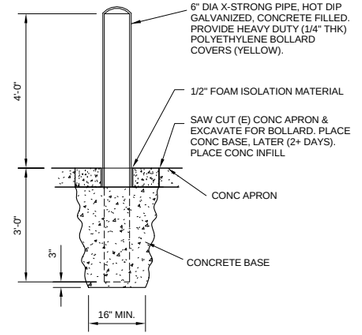
4 TRANSITION JOINT - 6" TO (E) 4" CONC SLAB
1" = 1'-0"



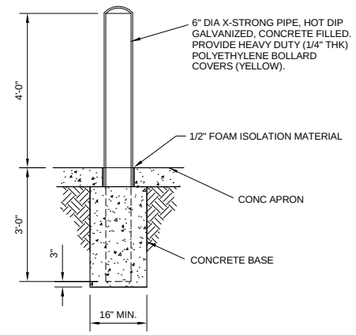
5 SUMP @ NEW SLAB
NTS



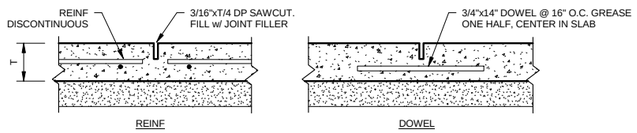
6 SUMP @ EX SLAB
NTS



7 BOLLARD @ (E) CONC APRON
NTS



8 BOLLARD @ NEW APRON
NTS



9 6" SLAB CONTROL JOINT
1" = 1'-0"

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DETAILS

STATE OF ALASKA 49 TH
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-009	S-013

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS:

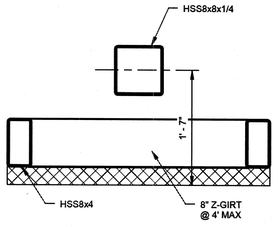
SCALE: As indicated

LAYOUT: STRUCTURAL DETAILS

DATE & TIME: 2/10/2016 5:18:38 PM

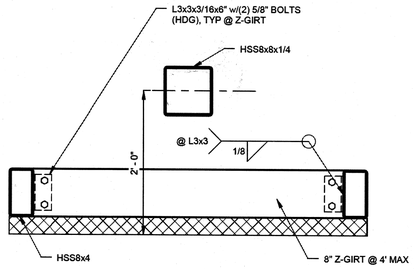
DRAWING LOCATION: C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

S-013



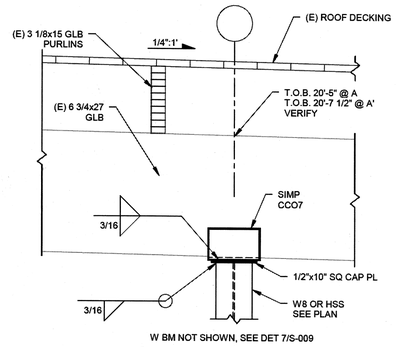
SEE WALL PIER ELEVATIONS ON S-013.

1 WALL PIER @ FIRE EQUIPMENT BAYS - GRID A'
1" = 1'-0"



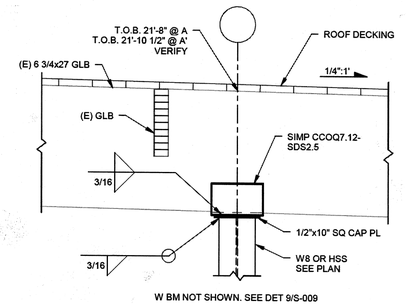
SEE WALL PIER ELEVATIONS ON S-013.

2 WALL PIER @ MAINT BAYS - GRID A
1" = 1'-0"



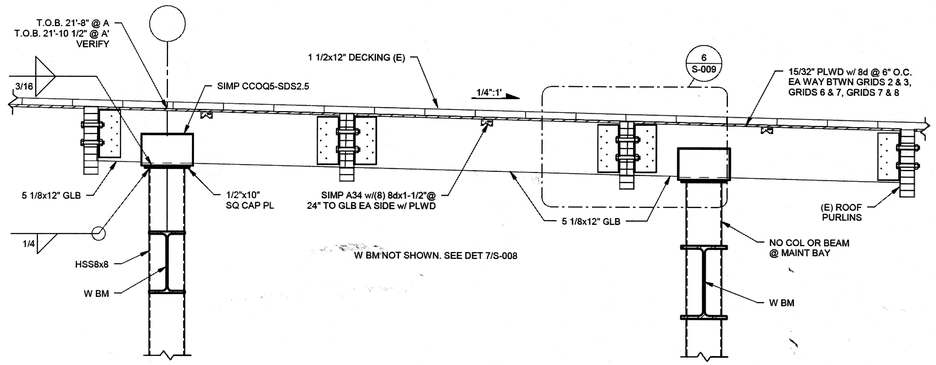
W BM NOT SHOWN, SEE DET 7/S-009

3 TOP OF COL CONN @ GRID 1&9
3/4" = 1'-0"



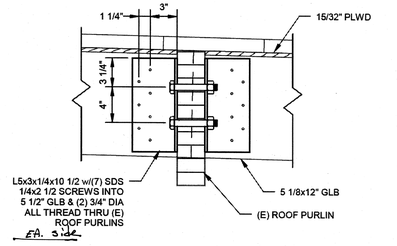
W BM NOT SHOWN. SEE DET 9/S-009

4 TOP OF COL CONN @ GRID 4 & 5
3/4" = 1'-0"

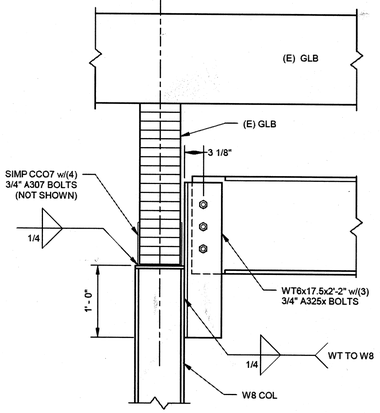


W BM NOT SHOWN. SEE DET 7/S-008

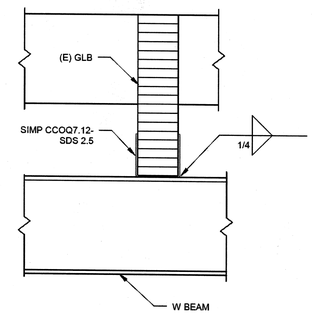
TOP OF COL CONN @ GRID A @ GRID 2.4, 6.4 & 7.7
5 TOP OF COL CONN @ GRID A' @ GRID 2.4
3/4" = 1'-0"



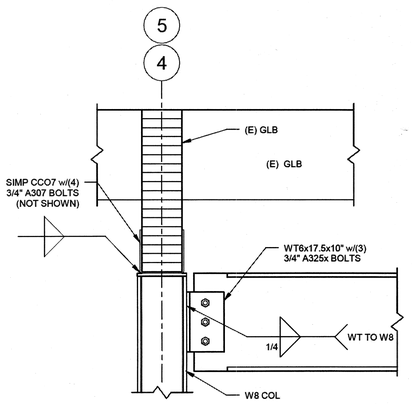
6 CONN OF 5 1/8" GLB TO (E) ROOF PURLINS
1 1/2" = 1'-0"



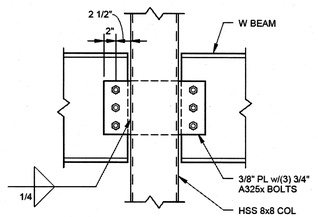
7 COL BM CONN @ GRID 1 & 9
1" = 1'-0"



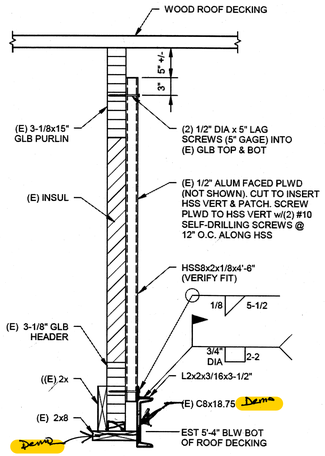
8 Copy of COL BM CONN @ GRID 1 & 9
1" = 1'-0"



9 COL BM CONN @ GRID 4 & 5
1" = 1'-0"



10 W BEAM CONN @ HSS COL
1" = 1'-0"



11 SUPPORT EX HEADER @ MAINTENANCE BAYS
1" = 1'-0"

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AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

STRUCTURAL DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-010	S-013

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

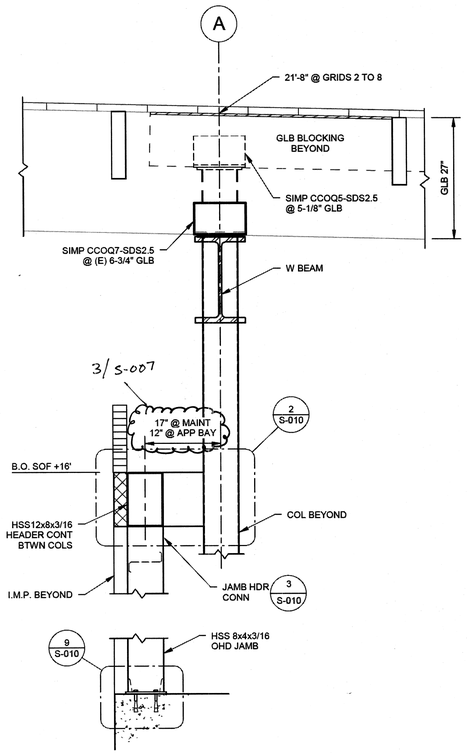
SCALE As indicated

LAYOUT STEEL FRAMING DETAILS

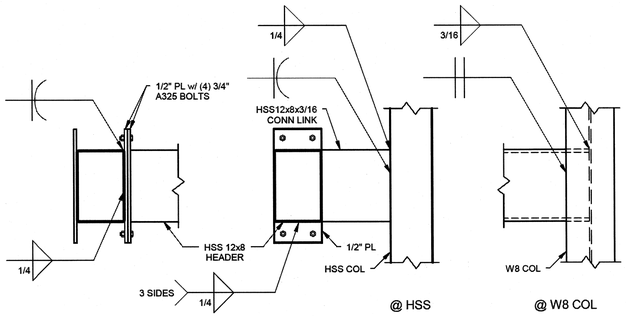
DATE & TIME 2/10/2016 5:18:39 PM

DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt

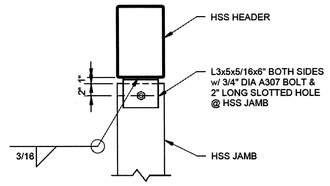
S-013



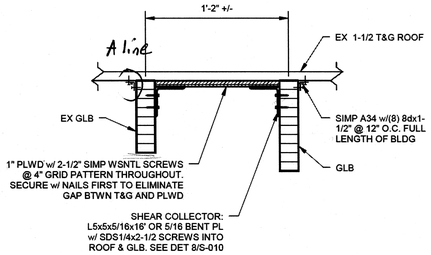
1 PARTIAL SECTION @ GRID A (MAINT BAY)
3/4" = 1'-0"



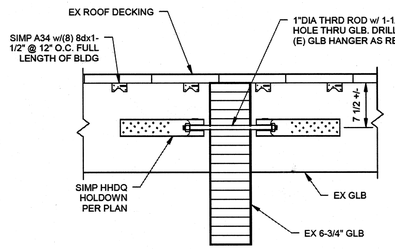
2 COLUMN HEADER CONNECTION
1" = 1'-0"



3 OHD JAMB CONN @ HDR
1" = 1'-0"

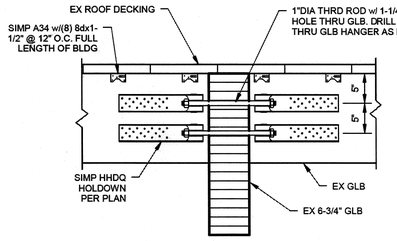


4 SECTION
1" = 1'-0"



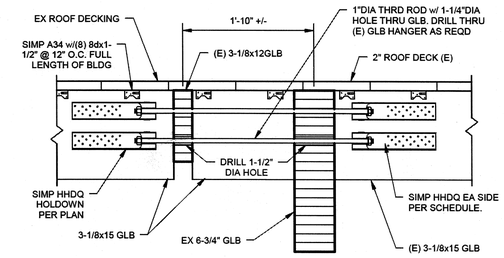
5 SECTION @ SINGLE COLLECTOR TIE
1" = 1'-0"

Á Line



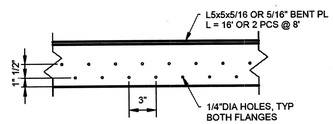
6 SECTION @ DBL COLLECTOR TIE
1" = 1'-0"

Á Line

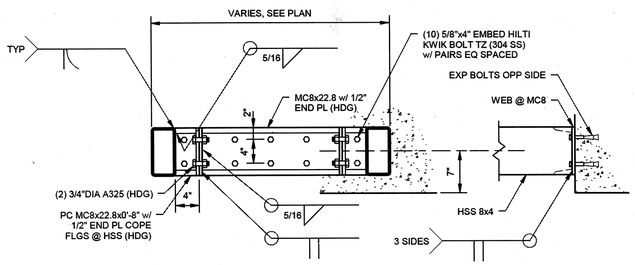


7 COLLECTOR CONNS @ GRIDS 4 & 5
1" = 1'-0"

Á Line



8 DET @ SHEAR COLLECTOR
1 1/2" = 1'-0"



9 OVHD JAMB WALL PANEL CONN @ SLAB
1" = 1'-0"

STATE OF ALASKA
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STEEL FRAMING DETAILS

STATE OF ALASKA 49 TH
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-011	S-013

DESIGNED D. ANDERSON
CHECKED D. ANDERSON
DRAFTED P. HEWLETT

XREFS

SCALE As indicated

LAYOUT BRACE DETAILS

DATE & TIME 2/10/2016 5:18:48 PM

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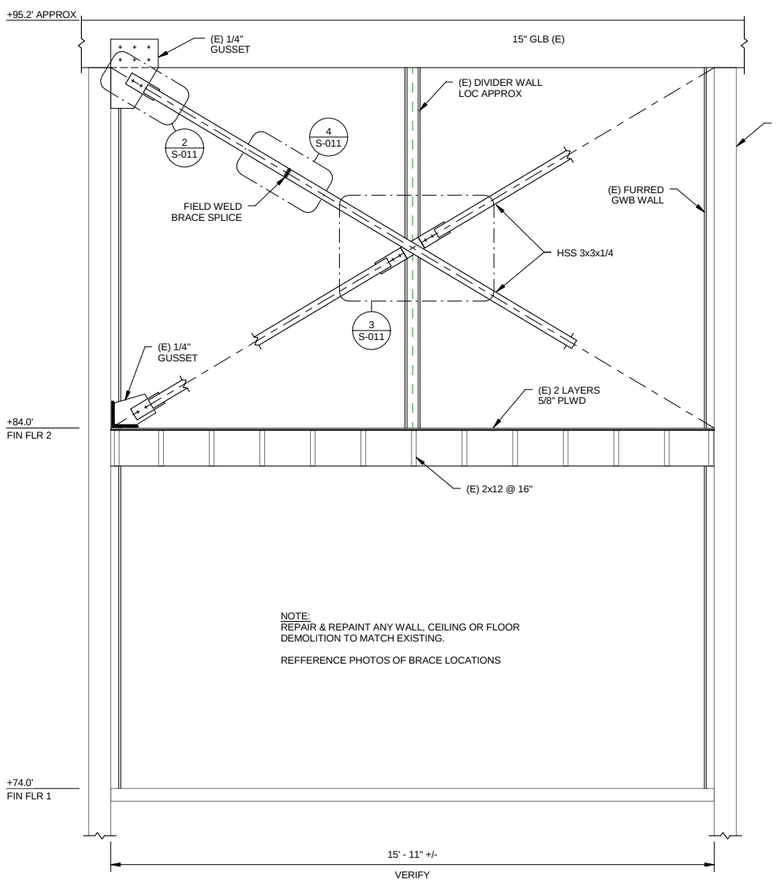
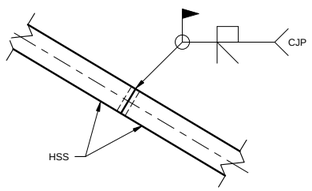
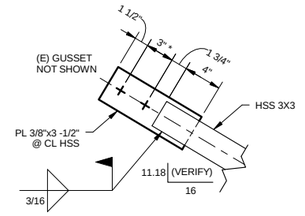


1 ELEVATION @ BRACE REPLACEMENT
1/2" = 1'-0"

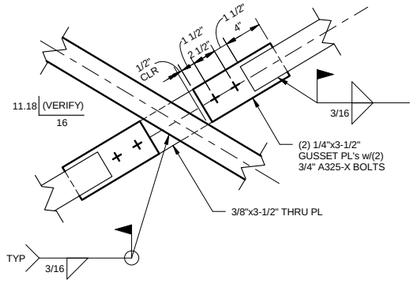


NOTE:
MINIMUM 1 SPLICE REQUIRED TO GET BRACE IN PLACE. CONTRACTOR MAY ELECT TO USE ADDITIONAL SPLICE TO MINIMIZE WALL DEMO.

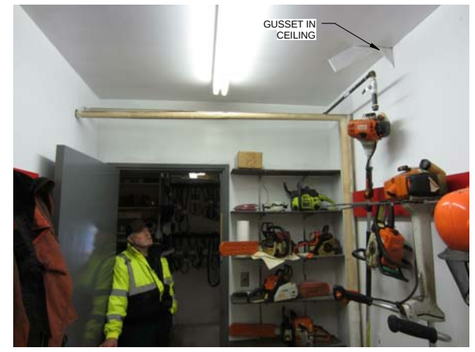
4 BRACE SPLICE
1 1/2" = 1'-0"

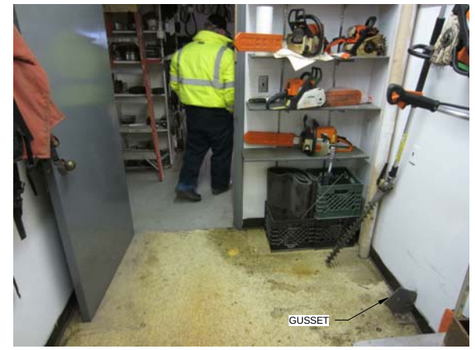


2 BRACE CONN @ EX GUSSET
1 1/2" = 1'-0"



3 BRACE 'X' CONNECTION
1 1/2" = 1'-0"





PHOTOS OF BRACE LOCATIONS & EXISTING GUSSETS

STATE OF ALASKA
49 TH
Duane H. Anderson
No. SE 14155
2-10-16
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

BRACE DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-012	S-013

DESIGNED Designer
CHECKED Checker
DRAFTED Author

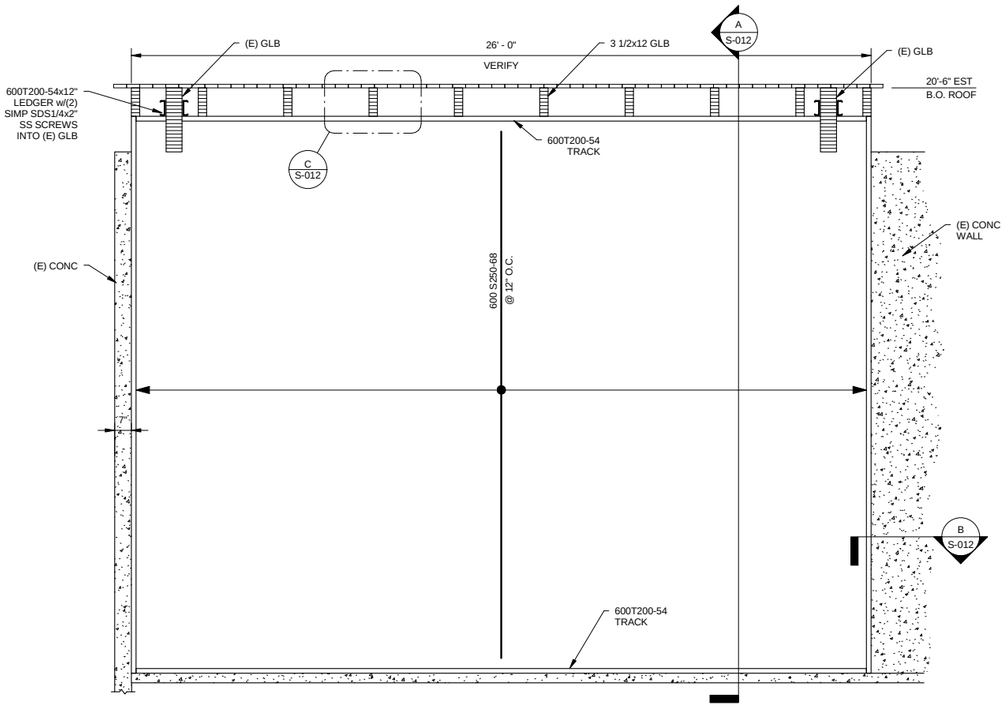
XREFS

SCALE As indicated

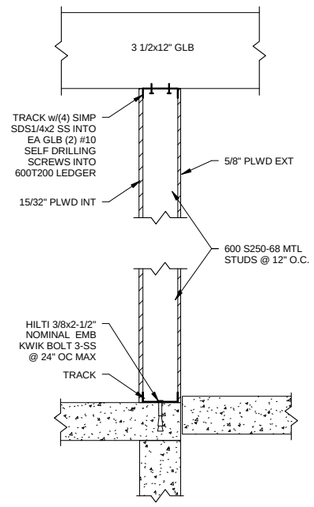
LAYOUT
OVERHEAD DOOR INFILL
DETAILS MECHANICAL WALL PENETRATIONS

DATE & TIME 2/10/2016 5:18:49 PM

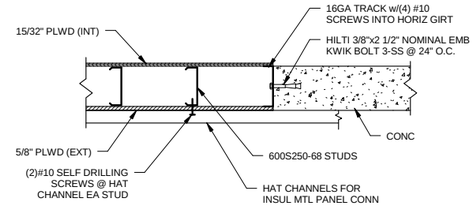
DRAWING LOCATION
C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt



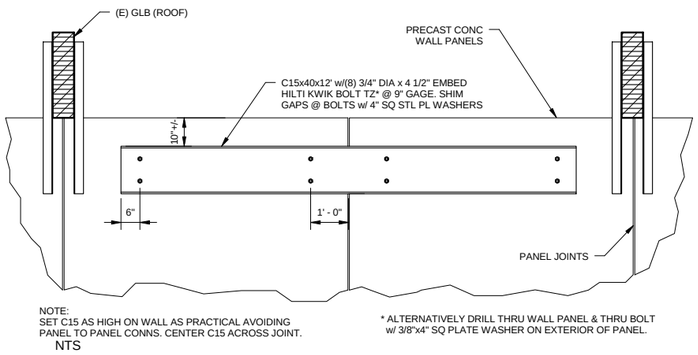
1 ELEVATION @ OVHD INFILL
3/8" = 1'-0"



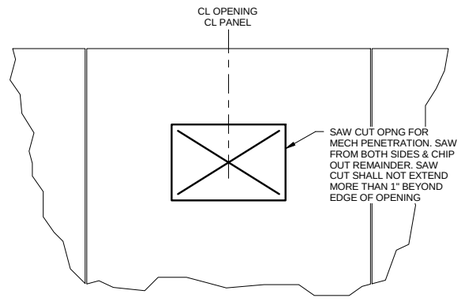
A VERT SECTION @ OVHD INFILL
1" = 1'-0"



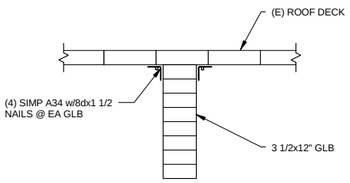
B HORIZ SECTION @ JAMB
1" = 1'-0"



2 PANEL JOINT STIFFENER



3 MECHANICAL WALL PENETRATION
1/2" = 1'-0"



C DETAIL
1 1/2" = 1'-0"

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

OVERHEAD DOOR INFILL DETAILS MECHANICAL WALL PENETRATIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PROJ. NO. Z682300000	2016	S-013	S-013

DESIGNED Designer
CHECKED Checker
DRAFTED Author

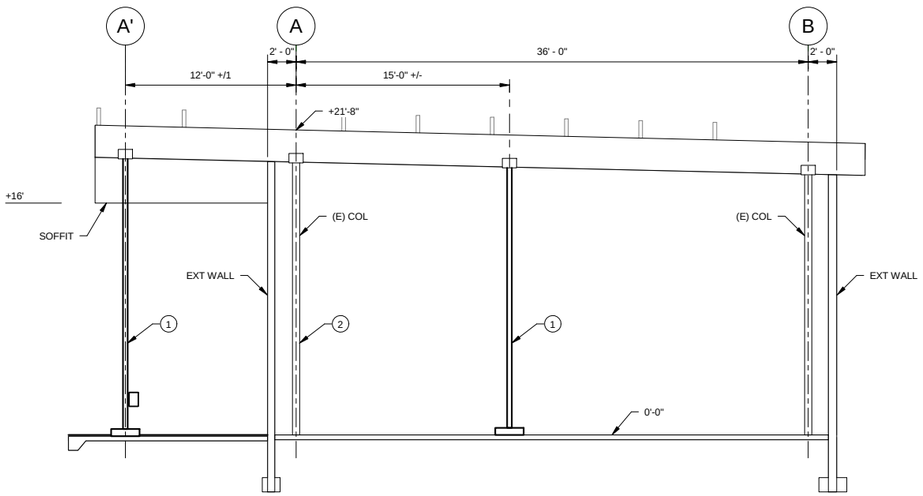
XREFS

SCALE As indicated

LAYOUT WALL PIER ELEVATIONS & SHORING DIAGRAM

DATE & TIME 2/10/2016 5:18:49 PM

DRAWING LOCATION C:\Users\phewlett\Documents\Crash Maintenance Building_Central_phewlett.rvt



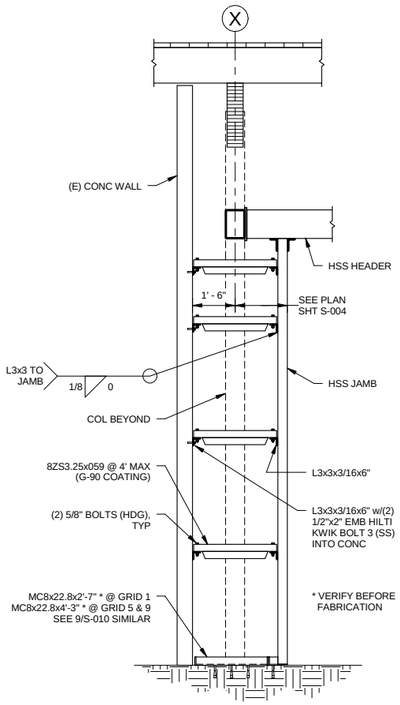
NOTES:

1. TEMPORARY SHORES REQUIRED PRIOR TO COLUMN (2) REMOVAL & BEAM PLACEMENT.
2. COLUMNS TO BE REMOVED FOR PLACEMENT OF NEW SUPPORT BEAM.

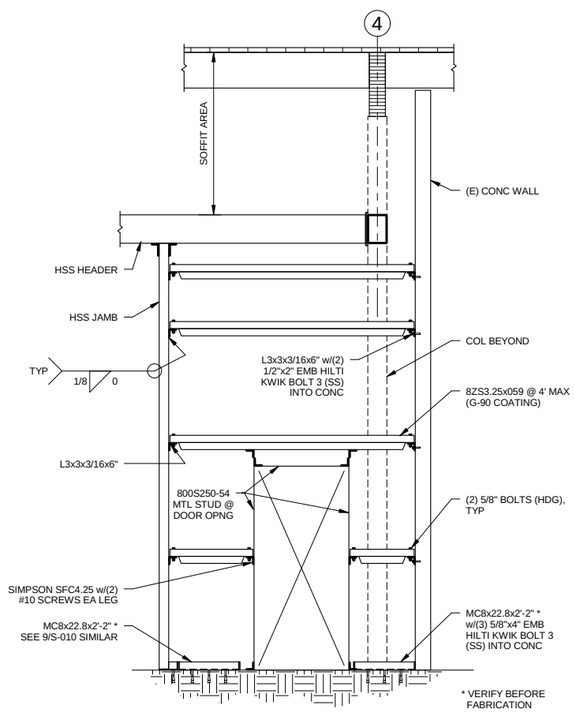
SHORING SEQUENCE:

1. PROVIDE SHORE COLUMNS IN POSITIONS 1 PRIOR TO REMOVAL OF COLUMNS 2 AT GRID A.
2. CONSTRUCT NEW FOUNDATIONS, COLUMNS AND SUPPORT BEAMS ALONG GRID A PRIOR TO ANY WORK AT GRID A'.
3. REMOVE SHORE COLUMNS TO PROCEED WITH CONSTRUCTION OF FOUNDATIONS, COLUMNS AND WALLS ALONG GRID A'.

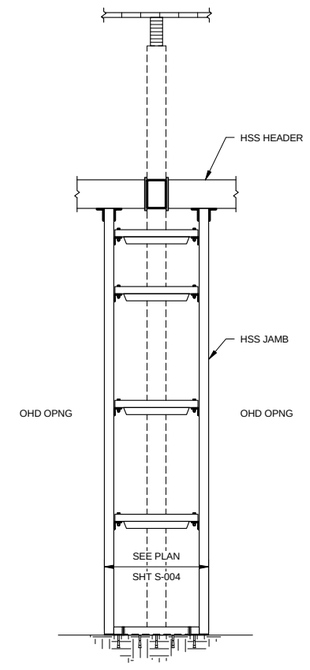
1 Shoring Diagram
3/16" = 1'-0"



2 WALL PIER ELEVATION @ GRIDS 1, 5 & 9
3/8" = 1'-0"



3 WALL PIER ELEVATION @ GRID 4
3/8" = 1'-0"



4 WALL PIER ELEVATION BTWN OVHD
3/8" = 1'-0"

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KETCHIKAN AIRPORT ARFF BUILDING RENOVATION

WALL PIER ELEVATIONS & SHORING DIAGRAM